Appendix A

Greenhouse Gas Inventory
(Technical Memorandum)

Memo

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Date: March 29, 2022

To: Stefan Heisler and Darcy Goulart (City of Rancho Cordova)

From: Alyssa Way, Andrew Martin, and Honey Walters (Ascent Environmental)

Subject: City of Rancho Cordova Climate Action Plan, Greenhouse Gas Emissions Inventory Technical Memorandum

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INTRODUCTION

In 2009, the County of Sacramento prepared a baseline inventory for the unincorporated county and the incorporated cities, including specifically a 2005 baseline year inventory for the City of Rancho Cordova (City). The Sacramento Area Council of Governments (SACOG) 2020 Metropolitan Transportation Plan / Sustainable Communities Strategy (MTP/SCS) Draft Environmental Impact Report included a greenhouse gas (GHG) emissions inventory and forecast for 2016, 2030, 2040, and 2050 that included the City. Though the City was considered in both efforts, an updated communitywide GHG emissions inventory using the latest methodologies with a more recent 2019 baseline year has been prepared for the City's Climate Action Plan (CAP).

The CAP is intended to reduce GHG emissions for the 2030 target year and 2045 goal. This initial preparation of a GHG emissions inventory provides a foundation for the forthcoming phases of the CAP process, which includes forecasting future emissions, developing GHG emissions reduction targets, defining GHG emissions reduction measures, and preparing a CAP to reduce GHG emissions from activities occurring in the city. This technical memorandum provides the results of the 2019 GHG emissions inventory, as well as associated methods, assumptions, emissions factors, and data sources.

ORGANIZATION OF THIS MEMORANDUM

This memorandum consists of two main parts:

- Section 1: Summary of Inventory Results presents an overview of the 2019 community inventories for each sector.
- Section 2: Data, Methods, and Assumptions summarizes data, methods, and assumptions used in the 2019 inventory and provides activity data and GHG emissions estimates by sector.

1 SUMMARY OF INVENTORY RESULTS

1.1 COMMUNITY INVENTORY

The city's GHG emissions inventory for 2019 was estimated based on methodologies and guidance provided by ICLEI – Local Governments for Sustainability (ICLEI) (discussed further in Section 2.2.1). Based on the modeling conducted, community activities in 2019 generated approximately 679,706 metric tons of carbon dioxide equivalent ($MTCO_2e$). Major emissions sectors included on-road transportation, residential and nonresidential building energy use, solid waste, water use, and wastewater generation. The 2019 inventory will serve as the City's GHG emissions baseline, which will be used to set future emissions reductions targets. A description of each emissions sector, including key sources, is provided in further detail in Section 2, "Data, Methods, and Assumptions". Table 1 and Figure 1 present the overall 2019 community inventory and the contributions from each key sector.

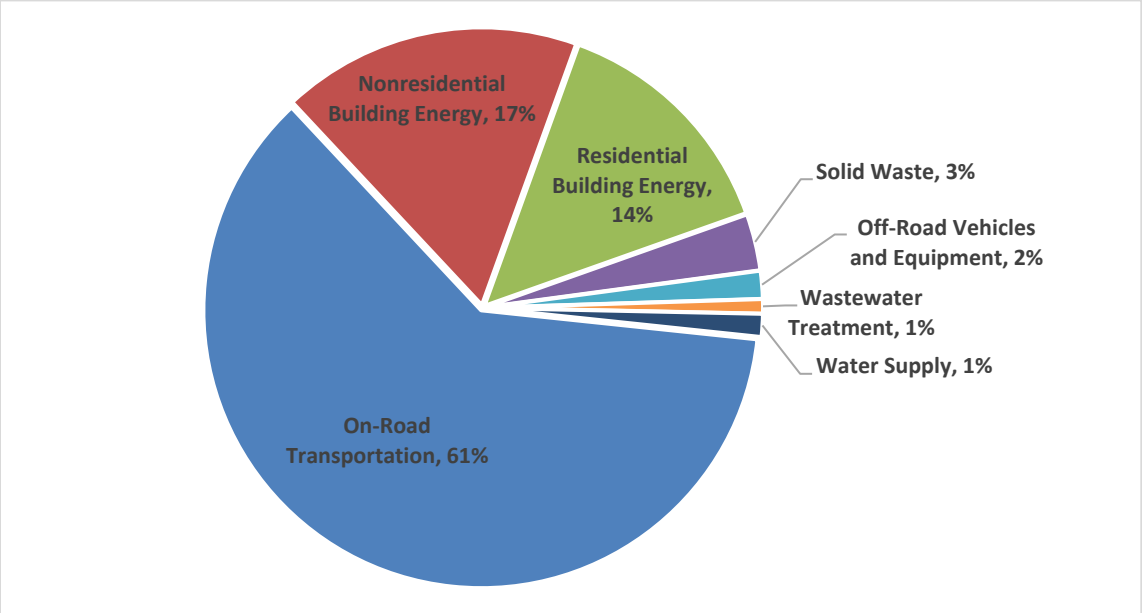
Table 1 2019 City of Rancho Cordova Community Greenhouse Gas Emissions Inventory

Sectors	$MTCO_2e$/year	Percent of Total
On-Road Transportation	417,145	61%
Nonresidential Building Energy	118,801	17%
Residential Building Energy	95,575	14%
Solid Waste	22,397	3%
Off-Road Vehicles and Equipment	11,027	2%
Water Supply	9,071	1%
Wastewater Treatment	5,690	1%
Total	679,706	100%

Notes: $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year

Source: Ascent Environmental 2021

Figure 1 2019 City of Rancho Cordova Community Greenhouse Gas Emissions Inventory



Source: Ascent Environmental 2021

2 DATA, METHODS, AND ASSUMPTIONS

2.1 OVERALL ASSUMPTIONS AND DATA

2.1.1 Utility Emissions Factors

Emissions of carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O) per unit of electricity and natural gas can vary by location and from year to year depending on numerous factors. Utility-specific factors for GHG emissions were obtained and used in the 2019 inventory to estimate GHG emissions from electricity and natural gas consumption. Sources for electricity and natural gas emissions factors are shown below.

- Electricity: Utility electricity emissions factors for CO_2, CH_4, and N_2O were obtained from the Sacramento Municipal Utility District (SMUD) and the U.S. Environmental Protection Agency's (EPA's) Emissions & Generation Resource Integrated Database (eGRID). For 2019, SMUD's CO_2 emissions factor was interpolated using the 2018 emissions factor provided by SMUD and the requirements of the Renewables Portfolio Standard included in Senate Bill (SB) 100. The same approach was taken for CH_4 and N_2O emissions factors from eGRID's 2018 Annual Output Emissions Rates (EPA 2020).
- Natural Gas: Utility natural gas emissions factors for CO_2, CH_4, and N_2O were obtained from The Climate Registry's (TCR's) 2020 Default Emission Factors (TCR 2020).

Specific utility emissions factors used in the inventory calculations are shown below in Table 3.

Table 3 2019 City of Rancho Cordova Utility Emissions Factors

Source and Unit	2019 Emissions Factor
SMUD – Electricity	
g CO_2/kWh	232.10
g CH_4/kWh	0.015
g N_2O/kWh	0.002
g CO_2e/MWh	233.01
PG&E – Natural Gas	
g CO_2/therm	5306
g CH_4/therm	0.47
g N_2O/therm	0.01
g CO_2e/therm	5322

Notes: CH_4 = methane; CO_2 = carbon dioxide; g= grams, MWh = megawatt-hours; N_2O = nitrous oxide; SMUD = Sacramento Municipal Utility District; PG&E = Pacific Gas and Electric Company.

Source: Utility emissions factors provided by SMUD, EPA, The Climate Registry (TCR). Ascent Environmental 2021

2.1.2 Global Warming Potentials

GHG emissions other than CO_2 generally have a stronger insulating effect and thus, a greater ability to warm the earth's atmosphere through the greenhouse effect. This effect is measured in terms of a pollutant's Global Warming

Potential (GWP). CO_2 has a GWP factor of one while all other GHGs have GWP factors measured in multiples of one relative to the GWP of CO_2. This conversion of non-CO_2 gases to one unit enables the reporting of all emissions in terms of carbon dioxide equivalent (CO_2e), which allows consideration of all GHGs in comparable terms and makes it easier to communicate how various sources and types of emissions contribute to climate change. $MTCO_2e$ is the standard unit for reporting emissions.

Consistent with the best available science, these inventories use GWP factors published in the Sixth Assessment Report (AR6) from the Intergovernmental Panel on Climate Change (IPCC), where CH_4 and N_2O have GWP factors of 27.9 and 273, respectively (IPCC 2021). This means that CH_4 and N_2O are approximately 28 and 273 times stronger than CO_2 in their potential to warm Earth's atmosphere, respectively. It should be noted that the California Air Resources Board's (CARB) Statewide GHG Inventory which is associated with the 2017 Scoping Plan uses the Fourth Assessment Report (AR4). Under AR4 CH_4 is approximately 24 times stronger than CO_2 and N_2O is 298 times stronger than CO_2. The GWP can be toggled in the GHG Inventory and Forecast Workbook to compare the change in emissions between the Assessment Reports.

2.1.3 Population and Employment

Population and employment data were used to scale activity levels for certain emissions sources and sectors. Population and employment data were obtained from the California Department of Finance and the Employment Development Department 2019.

2.2 COMMUNITY INVENTORIES DATA AND ASSUMPTIONS

2.2.1 Sector-Specific Assumptions and Methods for Community Inventories

Several inventory protocols have been developed to provide guidance for communities and local governments to account for emissions accurately and consistently. In coordination with other partners, ICLEI has developed guidance for local-scale accounting of emissions that many local governments use to develop their GHG inventories. The most recent guidance for community-scale emissions inventories is ICLEI's Community Protocol, Version 1.2, published in July 2019 (ICLEI 2019). GHG emissions from livestock were not included in the inventory due to a lack of available information about the number of cattle grazing within City limits.

The following summarizes data sources and methods used in estimating community GHG emissions in 2019:

- Building Energy: Annual electricity and natural gas usage data for the city were provided by SMUD and Pacific Gas and Electric (PG&E) (see Table 3 above). Emissions factors were obtained from SMUD, eGRID, and TCR. Annual nonresidential backup generator usage was provided by Sacramento Metropolitan Air Quality Management District (SMAQMD). Emissions factors for backup generator fuels was obtained from TCR.
- Transportation: For the on-road transportation sector, daily vehicle miles traveled (VMT) were obtained from Fehr & Peers for the city, using the SB 375 Regional Technical Advisory Committee's (RTAC's) origin-destination method. Vehicle emissions factors were derived from CARB's 2021 Emissions FACtor (EMFAC2021) model. Off-road vehicle emissions were estimated from CARB's OFFROAD2007 and OFFROAD2021 models and scaled by population, employment, or share of road miles.
- Solid Waste: Emissions associated with waste generated by residents and businesses in the city were estimated using disposal data available from the California Department of Resources Recycling and Recovery (CalRecycle) for landfills receiving waste from the city. Landfill gas (LFG) collection information was available from EPA.

- Water Supply: Using guidance provided by ICLEI, water supply emissions were estimated using approximate water consumption volumes obtained from the Sacramento County Water Agency, Golden State Water Company, and California American Water in combination with region-specific energy intensity factors obtained from the California Public Utilities Commissions (CPUC).
- Wastewater: Emissions from wastewater treatment depend on the types of treatment processes and equipment that centralized wastewater treatment plants (WWTPs) use. Emissions in this sector are also generated from onsite wastewater treatment systems. Data regarding treatment processes, population served, digester gas combustion, and daily nitrogen load were obtained from Sacramento Area Sewer District and Regional San to estimate emissions from centralized WWTPs.

2.2.2 Building Energy

Residential and nonresidential building energy use in 2019 resulted in approximately 214,376 $MTCO_2e$. This sector generated approximately 32 percent of the City's emissions in 2019 and represents the second largest emissions sector in the inventory. Most of these emissions were a result of electricity and natural gas use in homes and businesses, primarily for lighting and heating, ventilation, air condition, and cooling (HVAC), as well as to power appliances. A small proportion of nonresidential building energy emissions are associated with diesel consumption in backup generators. In 2019, electricity from both residential and nonresidential buildings accounted for approximately 67 percent of emissions from the building energy sector. Natural gas use accounted for approximately 32 percent, and backup generators accounted for less than 1 percent, of emissions from the building sector in 2019. Annual electricity, natural gas, and backup generator usage and GHG emissions are shown in Table 4.

Table 4 2019 City of Rancho Cordova Community Building Energy Use Greenhouse Gas Emissions

Source	Quantity	GHG Emissions	Percentage
Electricity	MWh/year	$MTCO_2e$/year	% of Energy Total
Residential	202,727	47,238	22
Nonresidential	416,664	97,089	45
Electricity Total	*619,391*	144,327	67
Natural Gas	therms/year	$MTCO_2e$/year	% of Energy Total
Residential	9,082,624	48,336	23
Nonresidential	3,902,601	20,769	10
Natural Gas Total	*12,985,225*	69,105	32
Backup Generators	gallons	$MTCO_2e$/year	% of Energy Total
Nonresidential	92,209	943	<1
Energy Combined		$MTCO_2e$/year	% of Energy Total
Residential	NA	95,575	45
Nonresidential	NA	118,801	55
Grand Total	NA	214,376	100

Notes: Totals in columns may not sum exactly due to independent rounding. GHG = greenhouse gas; $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year; MWh = megawatt-hours; NA = not applicable.

Source: Ascent Environmental 2021

RESIDENTIAL ENERGY

Residential energy emissions result indirectly from electricity consumption and directly from onsite combustion of natural gas. SMUD and PG&E are the providers of residential energy in the city. Annual residential electricity usage data for 2019 in the city were obtained from SMUD, expressed as MWh per year (MWh/year). To calculate the $MTCO_2e$ of residential electricity consumption, emissions factors (shown in Table 3) for CO_2, CH_4, and N_2O were applied to electricity consumption data.

Annual residential natural gas consumption for 2019 in the city was obtained from PG&E, expressed as therms per year (therms/year). CO_2, CH_4, and N_2O emissions factors for natural gas were applied to consumption data to estimate $MTCO_2e$ from residential natural gas usage.

NONRESIDENTIAL ENERGY

Nonresidential energy emissions, which are generated by commercial and industrial uses, result indirectly from electricity consumption and directly from onsite combustion of natural gas. SMUD provided nonresidential electricity in the city. Nonresidential natural gas in the city was provided by PG&E in 2019.

Annual nonresidential electricity usage data for 2019 were obtained from SMUD, expressed as MWh/year, and annual nonresidential natural gas consumption in the city was obtained from PG&E, expressed as therms/year. PG&E natural gas usage data for industrial customers could not be provided to the City because of the 15/15 Rule, which is statewide requirement protecting the privacy of utility customer data[1]. Emissions associated with nonresidential energy consumption were quantified using the same methods as described above for residential energy calculations.

Data for annual nonresidential backup generators were obtained from SMAQMD, expressed as gallons per year (gallons/year) for diesel fuel. Emissions factors obtained from TCR were applied to fuel consumption data to estimate GHG emissions associated with nonresidential backup generator usage.

2.2.3 On-Road Transportation

The on-road transportation sector represents the largest emissions-generator sector in the city. Based on modeling conducted, on-road transportation in the city resulted in approximately 417,145 $MTCO_2e$, or 61 percent of the City's 2019 inventory. The on-road transportation sector represents the largest emissions sector in the city. Annual VMT and GHG emissions from on-road transportation are shown in Table 5 broken down by EMFAC vehicle category.

Table 5 2019 City of Rancho Cordova Community On-Road Transportation Greenhouse Gas Emissions

EMFAC Vehicle Category	EMFAC Vehicle Category Description	VMT/year[a]	GHG Emissions ($MTCO_2e$/year)
LDA	Passenger Cars	465,261,020	148,453
LDT2	Light-Duty Trucks (GVWR <6000 lb)	191,143,033	78,535
MDV	Medium-Duty Trucks (GVWR 5751-8500 lb)	130,832,664	65,206
LDT1	Light-Duty Trucks (GVWR <6000 lb)	45,762,151	17,554
LHD1	Light-Heavy-Duty Trucks (GVWR 8501- 10000 lbs)	33,974,541	29,056

[1] The 15/15 Rule originates from a California Public Utilities Commission (CPUC) ruling in 1997 that enacted privacy standards for utilities to help ensure customer anonymity when energy data is released to third parties without customer consent. The 15/15 Rule requires that aggregated data include a minimum of 15 customers with no one customer's load exceeding 15 percent of the group's energy consumption.

EMFAC Vehicle Category	EMFAC Vehicle Category Description	VMT/year[a]	GHG Emissions ($MTCO_2e$/year)
T7 Trucks	Heavy-Heavy Duty Trucks	19,391,641	38,318
T6 Trucks	Medium-Heavy Duty Trucks	16,550,426	23,818
LHD2	Light-Heavy-Duty Trucks (GVWR 10001- 14000 lb)	7,751,499	7,083
MCY	Motorcycles	3,695,927	891
MH	Motor Homes	1,034,081	1,826
UBUS	Urban Buses	960,288	1,597
OBUS	Other Buses	803,554	1,515
SBUS	School Buses	728,388	897
All Other Buses	All Other Buses	563,571	749
PTO	Power Take Off	500,107	1,138
Motor Coach	Motor Coach	265,909	511
Total	N/A	919,218,798	417,145

Notes: GHG = greenhouse gas; GVWR = gross vehicle weight rating; lb= pounds; $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year; N/A = not applicable; VMT/year = vehicle miles traveled per year.

[a] VMT by vehicle category based on the modeled vehicle fleet mix in EMFAC2021 for Sacramento County in 2019 using EMFAC2011 vehicle categories applied to the city's total annual VMT.

Source: Ascent Environmental 2021

On-road transportation emissions are primarily the result of the combustion of gasoline and diesel fuels in passenger vehicles (i.e., cars, light-duty trucks, and motorcycles), medium- and heavy-duty trucks, and other types of vehicles permitted to operate "on-road." To a smaller degree, emissions from on-road electric vehicles also result from upstream electricity generation; these emissions are represented in annual electricity emissions in the city. Due to lack of available data, emissions from the combustion of natural gas and other non-electric alternative fuels in on-road vehicles were not included in the community inventory and are assumed to have minimal contribution to total emissions.

Fehr & Peers conducted a study that provides daily VMT by city for the years 2016, 2027, 2035, and 2040. These VMT estimates are associated with trips that begin or end in the city. VMT estimates included 100 percent of vehicle trips that both originate from and end in the city (i.e., fully internal trips), 50 percent of trips that either end in or depart from the city (i.e., internal-external or external-internal trips), and zero percent of vehicle trips that are simply passing through the city boundaries (i.e., external-external, or "pass-through," trips). This vehicle trip accounting method is consistent with the RTAC origin-destination method established through SB 375 and CARB recommendations.

An overall emissions rate for countywide VMT was derived from EMFAC2021, CARB's statewide mobile source emissions inventory model. EMFAC2021 was used to generate emission rates for the county for the calendar year 2019 with all vehicle classes, model years, speeds, and fuel types. The countywide $MTCO_2e$ per mile emissions factor was calculated based on the distribution of VMT for each vehicle class and its emissions factor.

OFF-ROAD VEHICLES AND EQUIPMENT

Based on modeling conducted, off-road vehicles and equipment operating in the city emitted approximately 11,027 $MTCO_2e$, or 2 percent of the 2019 inventory. The largest emissions-generating off-road transportation categories include construction and mining equipment, portable equipment, and industrial equipment. The estimated annual emissions and scaling factors used are presented in Table 6 below by equipment type.

Table 6 2019 City of Rancho Cordova Community Off-Road Vehicles-Equipment Greenhouse Gas Emissions

Off-Road Vehicles and Equipment Type	GHG Emissions ($MTCO_2e$)	Scaling Method
Construction and Mining Equipment	5,350	service population
Entertainment Equipment	54	employment
Industrial Equipment	1,426	employment
Lawn and Garden Equipment	138	population
Light Commercial Equipment	839	employment
Portable Equipment	2,478	employment
Recreational Equipment	81	population
Transportation Refrigeration Units	661	service population
Total	11,027	N/A

Notes: GHG = greenhouse gas; $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year; N/A = not applicable.

Source: Ascent Environmental 2021; based on modeling from OFFROAD2007 and OFFROAD2021.

Emissions from the off-road vehicles and equipment sector result from fuel combustion in off-road vehicles and equipment. Data associated with this sector were available from CARB's OFFROAD2007 and OFFROAD2021 models. These models provide emissions details at the State, air basin, or county level. Sacramento County emissions data from OFFROAD2007 and OFFROAD2021 were apportioned to the city using custom scaling factors depending on the off-road fleet type. For example, due to the likely correlation between commercial activity and employment, the city's portion of emissions from light commercial equipment in the county is assumed to be proportional to the number of jobs in the city as compared to the county as a whole.

OFFROAD2007 provides emissions details for all off-road vehicle and equipment types, but OFFROAD2017 only provides details for certain types of off-road vehicles and equipment that are relevant to the city (i.e., construction and mining equipment, industrial equipment, and transport refrigeration units). CARB recommends using OFFROAD2007 where desired information is unavailable from the OFFROAD2021 model, so data from both models were used (CARB 2020). Additionally, while OFFROAD2021 provides estimates of CO_2 emissions, it does not provide estimates for CH_4 and N_2O emissions. To estimate CH_4 and N_2O emissions from the vehicle and equipment types included in OFFROAD2017, ratios of CH_4 to CO_2 and N_2O to CO_2 were obtained from OFFROAD2007 and applied to CO_2 data from OFFROAD2021 to calculate CH_4 and N_2O emissions.

2.2.4 Solid Waste

Based on modeling conducted, the solid waste sector was responsible for approximately 22,397 $MTCO_2e$ in 2019, or 3 percent of the 2019 community GHG inventory. Community-generated solid waste emissions are result primarily from decomposition of solid waste generated by the city in landfills, while a smaller proportion of emissions are produced by the decomposition of alternative daily cover (ADC) generated by the county. Table 7 summarizes emissions from the solid waste sector. Additional details regarding calculation methods and assumptions are discussed below.

Table 7 2019 City of Rancho Cordova Community Solid Waste Greenhouse Gas Emissions

Source	Quantity (tons/year)	GHG Emissions ($MTCO_2e$/year)
Community-Generated Solid Waste	59,464	22,397

Notes: Totals may not sum exactly due to independent rounding. GHG = greenhouse gas; $MTCO_2e$ = metric tons of carbon dioxide equivalent.

Source: Ascent Environmental 2021

COMMUNITY-GENERATED SOLID WASTE

CH_4 emissions generated by community-generated solid waste occur from decay of landfill disposed waste generated annually by residences and businesses in the city. A total of 56,877 tons of landfilled waste was reported for the city in 2019. In addition to landfilled waste, communities send ADC to landfills. ADC is non-earthen material used to cover an active landfill surface at the end of each operating day to control for vectors, fires, odors, blowing litter, and scavenging. This material can include compost, construction and demolition waste, sludge, green material, shredded tires, spray-on cement, and fabric. Given that ADC can also include organic material, CH_4 emissions from landfills result from organic decomposition in both waste disposal and ADC. ADC from the city was 2,587 tons in 2019. Data for landfilled waste and ADC were obtained from CalRecycle (CalRecycle 2021).

The amount of CH_4 released from community-generated waste depends on the LFG management systems of the landfills at which the waste is disposed. Information regarding the use of an LFG capture system was available from EPA's Landfill Methane Outreach Program. All facilities included an LFG capture system; therefore, the default LFG collection efficiency of 0.75 was applied to adjust emissions estimates, as recommended by the Community Protocol. Default waste characterization emissions factors obtained from EPA were used in calculations.

2.2.5 Water Supply

Based on modeling conducted, water supply emissions accounted for approximately 9,071 $MTCO_2e$ in 2019. GHG emissions associated with water supply occur from the indirect use of energy associated with water extraction, conveyance, treatment, and distribution to the point of use (e.g., residences, businesses). Energy consumption for supplying water was estimated by applying energy intensity factors (i.e., the total amount of energy required to produce a unit of water for a particular use) to water supply consumption values. Water supply emissions are estimated by applying electricity emissions factors to water consumption values. Table 8 presents water supply volume and energy consumption, as well as associated GHG emissions for the county in 2019. The methods used are explained in more detail below.

Table 8 2019 City of Rancho Cordova Community Water Supply Greenhouse Gas Emissions

	Quantity (AF)	GHG Emissions ($MTCO_2e$/year)
Water Supply	65,645	9,071

Notes: AF = acre feet; GHG = greenhouse gas; $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year..

Source: Ascent Environmental 2021

ENERGY INTENSITY FACTOR

An energy intensity factor, regarding water supply emissions, is defined by the amount of energy (e.g., electricity, natural gas) required to produce a unit of water for a particular use. Electricity is the primary source of energy used for water extraction, conveyance, treatment, and distribution in the Sacramento River hydrologic region. Other energy sources may include fossil fuel-powered pumps and backup generators at treatment plants, but these sources that may be used were considered negligible. Thus, for purposes of this analysis, energy intensity is based on electricity use only and is expressed as kilowatt-hours per acre-foot (kWh/AF).

In 2015, the CPUC commissioned a study of hydrologic zones in California and their relative energy intensities for water extraction, conveyance, treatment, and distribution. The city is within the Sacramento River hydrologic zone, which has specific energy intensities by supply type (e.g., local surface water, imported deliveries). According to the City's Water Supply Evaluation water in the city is either sourced from surface water, groundwater, recycled water, or wholesale purchases.

ENERGY CONSUMPTION

To estimate water supply emissions, the energy intensity factors discussed above were applied to total water consumption volumes reported by each water supplier. GHG emissions were estimated using electricity emissions factors in 2019 as described in the building energy sector.

2.2.6 Wastewater Treatment

Based on modeling conducted, wastewater generation in 2019 resulted in emissions of approximately 5,690 $MTCO_2e$, one percent of total emissions, primarily from fugitive CH_4. Wastewater emissions were estimated in two components: (1) pumping-related energy for wastewater conveyance from the source to the treatment facility, and (2) wastewater treatment process emissions. Each is discussed separately below. GHG emissions associated with the treatment of wastewater from the city is shown in Table 9.

Table 9 2019 City of Rancho Cordova Wastewater Treatment Greenhouse Gas Emissions

Wastewater Emission Type	GHG Emissions ($MTCO_2e$/year)
Treatment Plants	5,690

Notes: Totals may not sum exactly due to independent rounding. GHG = greenhouse gas; $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year.

Source: Ascent Environmental 2021

Wastewater Conveyance

SASD and Regional San are the primary agencies responsible for sewer conveyance and wastewater treatment for the city. Emissions associated with wastewater conveyance are directly related to the energy required to convey the wastewater and the volume of water conveyed/pumped. To estimate GHG emissions, a regional wastewater conveyance energy intensity factor was calculated from total pumping energy data within SASD and Regional service area from 2015 and total wastewater treated in 2019. SASD pumping data were provided directly by SASD. Regional San pumping energy and treatment effluent volumes were provided directly by Regional San (pers. Comm. Steve Nebozuk, Regional San. 2016). Effluent volume was apportioned to the City of Rancho Cordova's population and the calculated energy intensity factor was applied to obtain total wastewater conveyance-related energy. GHG emissions were estimated using the same emissions factors described for the building sector.

According to the ICLEI Community Protocol, wastewater discharge and treatment energy intensities associated with septic tanks and other on-site systems are assumed negligible. Hauling emissions associated with maintenance of septic tanks are captured in the on-road vehicle sector and not included in this sector.

Wastewater Treatment Process Emissions

Wastewater generated by the city is treated at the Regional San WWTP. Treatment process emissions at the WWTP include electricity consumption for treatment, process N_20, wastewater effluent containing N_2O, and emissions from biogas combustion. The analysis assumes the entire city population is served by the Regional San WWTP. As such, process wastewater emissions may be slightly overestimated as some portion of the city use onsite septic tanks for wastewater treatment.

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Appendix B

Greenhouse Gas Inventory and Forecast Worksheet

Table of Contents

Summary

Column Labels	2019		2030				2045			
	(blank)		BAU		Leg-Adjusted		BAU		Leg-Adjusted	
Row Labels	Sum of MT CO2e	Percentage	Sum of MT CO2e	Percentage	Sum of MT CO2e	Percentage	Sum of MT CO2e	Percentage	Sum of MT CO2e	Percentage
OnRoad	**417,145**	**61.4%**	**486,187**	**59.53%**	**387,784**	**75.25%**	**593,347**	**60.07%**	**384,651**	**72.60%**
Building Energy	**214,376**	**31.5%**	**266,866**	**32.67%**	**75,823**	**14.71%**	**315,909**	**31.98%**	**81,238**	**15.33%**
Non-Residential	118,801	17.5%	141,055	17.27%	23,605	4.58%	161,388	16.34%	25,335	4.78%
Residential	95,575	14.1%	125,811	15.40%	52,217	10.13%	154,521	15.64%	55,903	10.55%
Solid Waste	**22,397**	**3.3%**	**29,483**	**3.61%**	**29,483**	**5.72%**	**36,211**	**3.67%**	**36,211**	**6.83%**
OffRoad	**11,027**	**1.6%**	**14,772**	**1.81%**	**14,772**	**2.87%**	**18,488**	**1.87%**	**18,488**	**3.49%**
Construction and Mining	5,350	0.79%	7,500	0.92%	7,500	1.46%	9,675	0.98%	9,675	1.83%
Entertainment Equipment	54	0.01%	67	0.01%	67	0.01%	80	0.01%	80	0.02%
Industrial	1,426	0.21%	1,787	0.22%	1,787	0.35%	2,129	0.22%	2,129	0.40%
Lawn and Garden Equipment	138	0.02%	211	0.03%	211	0.04%	287	0.03%	287	0.05%
Light Commercial Equipment	839	0.12%	1,052	0.13%	1,052	0.20%	1,253	0.13%	1,253	0.24%
Recreational Equipment	81	0.01%	123	0.02%	123	0.02%	168	0.02%	168	0.03%
Transport Refrigeration Units	661	0.10%	927	0.11%	927	0.18%	1,196	0.12%	1,196	0.23%
Portable Equipment	2,478	0.36%	3,105	0.38%	3,105	0.60%	3,699	0.37%	3,699	0.70%
Water	**9,071**	**1.3%**	**11,940**	**1.46%**	**-**	**0.00%**	**14,665**	**1.48%**	**-**	**0.00%**
Wastewater	**5,690**	**0.8%**	**7,490**	**0.92%**	**7,490**	**1.45%**	**9,200**	**0.93%**	**9,200**	**1.74%**
Grand Total	**679,706**	**100.00%**	**816,738**	**100.00%**	**515,352**	**100.00%**	**987,820**	**100.00%**	**529,788**	**100.00%**

Building Energy

Enter Inventory Data into the yellow table. Enter Forecast Data into the green table:
- Insert rows within the table as needed.
- Only input data in the colored cells.
- See comments in headers for specific input instructions.
- For the forecast data, copy the entries from the inventory and paste one set for each forecast year and BAU/Leg-Adjusted combination. (E.g., if you have 2 entries in the inventory and 3 forecast years, you should have 2*3*2=12 row entries in the forecast table.)

Year	Emissions Sector	Calculation Sector	Fuel Type	Utility (if applicable)	Sub-Sector	Activity	Activity Unit	Notes	Energy Use (kBTU)	MT CO2	MT CH4	MT N2O	MT CO2e	Activity Data Source
2019	Building Energy	Building Energy	Electricity	SMUD	Residential	202,726,752	kWh	Source: SMUD	691,732,360	47,053	3	0	47,238	*SMUD*
2019	Building Energy	Building Energy	Electricity	SMUD	Non-Residential	416,664,459	kWh	Source: SMUD	1,421,718,084	96,709	6	1	97,089	*SMUD*
2019	Building Energy	Building Energy	Natural Gas	PG&E	Residential	9,082,624	therm	Source: PG&E	908,045,548	48,192	4	0	48,336	*PG&E*
2019	Building Energy	Building Energy	Natural Gas	PG&E	Non-Residential	3,902,601	therm	Source: PG&E, CEC Industrial natural g	390,166,923	20,707	2	0	20,769	*PG&E*
2019	Building Energy	Building Energy	Diesel	NA	Non-Residential	92,209	gal	Source: SMAQMD	12,733,622	941	0	0	943	*SMAQMD*

Enter Forecast Data Here:

Year	Emissions Sector	Calculation Sector	Fuel Type	Utility (if applicable)	Sub-Sector	BAU or Leg-Adjusted?	Activity Growth Method	Activity Growth Factor	Legislative Adjustment	Activity	Activity Unit	Notes	Energy Use (kBTU)	MT CO2	MT CH4	MT N2O	MT CO2e	Activity Data Source
2030	Building Energy	Building Energy	Electricity	SMUD	Residential	BAU	Population	1.316362515	1	266,861,897	kWh		910,570,549	61,939	4	0	62,183	
2030	Building Energy	Building Energy	Electricity	SMUD	Non-Residential	BAU	Employment	1.187324608	1	494,715,965	kWh		1,688,040,866	114,824	7	1	115,276	
2030	Building Energy	Building Energy	Natural Gas	PG&E	Residential	BAU	Population	1.316362515	1	11,956,026	therm		1,195,317,121	63,439	6	0	63,628	
2030	Building Energy	Building Energy	Natural Gas	PG&E	Non-Residential	BAU	Employment	1.187324608	1	4,633,654	therm		463,254,789	24,586	2	0	24,660	
2030	Building Energy	Building Energy	Diesel	NA	Non-Residential	BAU	Employment	1.187324608	1	109,482	gal		15,118,943	1,118	0	0	1,120	
2045	Building Energy	Building Energy	Electricity	SMUD	Residential	BAU	Population	1.616762442	1	327,760,999	kWh		1,118,366,899	76,074	5	1	76,373	
2045	Building Energy	Building Energy	Electricity	SMUD	Non-Residential	BAU	Employment	1.358471102	1	566,026,627	kWh		1,931,362,931	131,376	8	1	131,892	
2045	Building Energy	Building Energy	Natural Gas	PG&E	Residential	BAU	Population	1.616762442	1	14,684,445	therm		1,468,093,937	77,916	7	0	78,148	
2045	Building Energy	Building Energy	Natural Gas	PG&E	Non-Residential	BAU	Employment	1.358471102	1	5,301,571	therm		530,030,490	28,130	2	0	28,214	
2045	Building Energy	Building Energy	Diesel	NA	Non-Residential	BAU	Employment	1.358471102	1	125,263	gal		17,298,258	1,279	0	0	1,281	
2030	Building Energy	Building Energy	Electricity	SMUD	Residential	Leg-Adjusted	Population	1.316362515	0.2538	219,004,252	kWh		747,273,492	-	-	-	-	
2030	Building Energy	Building Energy	Electricity	SMUD	Non-Residential	Leg-Adjusted	Employment	1.187324608	0.4655	452,997,435	kWh		1,545,691,339	-	-	-	-	
2030	Building Energy	Building Energy	Natural Gas	PG&E	Residential	Leg-Adjusted	Population	1.316362515	0.2538	9,811,893	therm		980,955,073	52,062	5	0	52,217	
2030	Building Energy	Building Energy	Natural Gas	PG&E	Non-Residential	Leg-Adjusted	Employment	1.187324608	0.4655	4,242,906	therm		424,189,325	22,513	2	0	22,580	
2030	Building Energy	Building Energy	Diesel	NA	Non-Residential	Leg-Adjusted	Employment	1.187324608	0.4655	100,250	gal		13,843,989	1,024	0	0	1,025	
2045	Building Energy	Building Energy	Electricity	SMUD	Residential	Leg-Adjusted	Population	1.616762442	0.2538	234,460,444	kWh		800,012,206	-	-	-	-	
2045	Building Energy	Building Energy	Electricity	SMUD	Non-Residential	Leg-Adjusted	Employment	1.358471102	0.4655	486,192,548	kWh		1,658,957,760	-	-	-	-	
2045	Building Energy	Building Energy	Natural Gas	PG&E	Residential	Leg-Adjusted	Population	1.616762442	0.2538	10,504,366	therm		1,050,185,829	55,736	5	0	55,903	
2045	Building Energy	Building Energy	Natural Gas	PG&E	Non-Residential	Leg-Adjusted	Employment	1.358471102	0.4655	4,553,821	therm		455,273,414	24,163	2	0	24,235	
2045	Building Energy	Building Energy	Diesel	NA	Non-Residential	Leg-Adjusted	Employment	1.358471102	0.4655	107,596	gal		14,858,460	1,099	0	0	1,101	

On-Road Transportation

Year	Emissions Sector	Calculation Sector	Sub-Sector	EMFAC Categories	Activity	Activity Unit	Notes	g CO2 per mi	g CH4 per mi	g N2O per mi	MT CO2	MT CH4	MT N2O	MT CO2e
2019	OnRoad	OnRoad	All Other Buses	All Other Buses	563,571	Annual VMT	Source: Fehr & Peer	1,269.96	0.13	0.20	715.71	0.07	0.12	749.18
2019	OnRoad	OnRoad	LDA	LDA	465,261,020	Annual VMT	Source: Fehr & Peer	315.30	0.02	0.01	146,697.14	8.06	5.61	148,452.56
2019	OnRoad	OnRoad	LDT1	LDT1	45,762,151	Annual VMT	Source: Fehr & Peer	376.90	0.03	0.02	17,247.93	1.53	0.96	17,553.89
2019	OnRoad	OnRoad	LDT2	LDT2	191,143,033	Annual VMT	Source: Fehr & Peer	406.09	0.02	0.02	77,620.79	3.75	2.96	78,534.80
2019	OnRoad	OnRoad	LHD1	LHD1	33,974,541	Annual VMT	Source: Fehr & Peer	837.15	0.03	0.06	28,441.89	0.87	2.16	29,056.45
2019	OnRoad	OnRoad	LHD2	LHD2	7,751,499	Annual VMT	Source: Fehr & Peer	888.58	0.02	0.09	6,887.84	0.14	0.70	7,082.70
2019	OnRoad	OnRoad	MCY	MCY	3,695,927	Annual VMT	Source: Fehr & Peer	218.68	0.31	0.05	808.21	1.13	0.19	890.59
2019	OnRoad	OnRoad	MDV	MDV	130,832,664	Annual VMT	Source: Fehr & Peer	491.58	0.03	0.02	64,314.27	3.85	2.87	65,206.26
2019	OnRoad	OnRoad	MH	MH	1,034,081	Annual VMT	Source: Fehr & Peer	1,747.51	0.02	0.07	1,807.06	0.02	0.07	1,826.09
2019	OnRoad	OnRoad	Motor Coach	Motor Coach	265,909	Annual VMT	Source: Fehr & Peer	1,841.22	0.01	0.29	489.60	0.00	0.08	510.71
2019	OnRoad	OnRoad	OBUS	OBUS	803,554	Annual VMT	Source: Fehr & Peer	1,870.91	0.04	0.05	1,503.38	0.03	0.04	1,514.68
2019	OnRoad	OnRoad	PTO	PTO	500,107	Annual VMT	Source: Fehr & Peer	2,181.06	0.02	0.34	1,090.76	0.01	0.17	1,137.87
2019	OnRoad	OnRoad	SBUS	SBUS	728,388	Annual VMT	Source: Fehr & Peer	1,181.28	0.09	0.17	860.43	0.07	0.13	896.76
2019	OnRoad	OnRoad	T6 CAIRP heavy	T6 CAIRP heavy	347,437	Annual VMT	Source: Fehr & Peer	1,058.54	0.00	0.17	367.78	0.00	0.06	383.62
2019	OnRoad	OnRoad	T6 CAIRP small	T6 CAIRP small	92,040	Annual VMT	Source: Fehr & Peer	1,136.97	0.00	0.18	104.65	0.00	0.02	109.15
2019	OnRoad	OnRoad	T6 instate heavy	T6 instate heavy	1,885,072	Annual VMT	Source: Fehr & Peer	1,192.82	0.02	0.19	2,248.55	0.03	0.35	2,346.18
2019	OnRoad	OnRoad	T6 instate small	T6 instate small	6,793,663	Annual VMT	Source: Fehr & Peer	1,248.13	0.01	0.20	8,479.37	0.09	1.33	8,846.16
2019	OnRoad	OnRoad	T6 OOS heavy	T6 OOS heavy	203,526	Annual VMT	Source: Fehr & Peer	1,057.42	0.00	0.17	215.21	0.00	0.03	224.49
2019	OnRoad	OnRoad	T6 OOS small	T6 OOS small	46,511	Annual VMT	Source: Fehr & Peer	1,136.97	0.00	0.18	52.88	0.00	0.01	55.16
2019	OnRoad	OnRoad	T6 Public	T6 Public	4,167,560	Annual VMT	Source: Fehr & Peer	1,373.70	0.05	0.22	5,724.99	0.19	0.91	5,978.15
2019	OnRoad	OnRoad	T6 Utility	T6 Utility	52,319	Annual VMT	Source: Fehr & Peer	1,188.75	0.01	0.19	62.19	0.00	0.01	64.88
2019	OnRoad	OnRoad	T6TS	T6TS	2,962,296	Annual VMT	Source: Fehr & Peer	1,944.20	0.07	0.06	5,759.28	0.22	0.16	5,810.16
2019	OnRoad	OnRoad	T7 CAIRP	T7 CAIRP	3,869,997	Annual VMT	Source: Fehr & Peer	1,719.11	0.03	0.27	6,652.95	0.10	1.05	6,942.51
2019	OnRoad	OnRoad	T7 NNOOS	T7 NNOOS	4,458,408	Annual VMT	Source: Fehr & Peer	1,719.53	0.01	0.27	7,666.38	0.04	1.21	7,996.95
2019	OnRoad	OnRoad	T7 NOOS	T7 NOOS	1,621,110	Annual VMT	Source: Fehr & Peer	1,732.19	0.01	0.27	2,808.07	0.01	0.44	2,929.06
2019	OnRoad	OnRoad	T7 Other Port	T7 Other Port	37,384	Annual VMT	Source: Fehr & Peer	1,783.29	0.01	0.28	66.67	0.00	0.01	69.54
2019	OnRoad	OnRoad	T7 POAK	T7 POAK	73,221	Annual VMT	Source: Fehr & Peer	1,826.99	0.01	0.29	133.77	0.00	0.02	139.54
2019	OnRoad	OnRoad	T7 Public	T7 Public	3,927,667	Annual VMT	Source: Fehr & Peer	2,047.21	0.04	0.32	8,040.78	0.14	1.27	8,391.21
2019	OnRoad	OnRoad	T7 Single	T7 Single	2,518,637	Annual VMT	Source: Fehr & Peer	1,759.53	0.04	0.28	4,431.63	0.10	0.70	4,625.86
2019	OnRoad	OnRoad	T7 SWCV	T7 SWCV	1,270,032	Annual VMT	Source: Fehr & Peer	3,200.41	2.78	0.54	4,064.62	3.52	0.69	4,351.77
2019	OnRoad	OnRoad	T7 Tractor	T7 Tractor	1,567,486	Annual VMT	Source: Fehr & Peer	1,684.27	0.03	0.27	2,640.08	0.04	0.42	2,755.00
2019	OnRoad	OnRoad	T7 Utility	T7 Utility	28,454	Annual VMT	Source: Fehr & Peer	1,810.33	0.00	0.28	51.51	0.00	0.01	53.73
2019	OnRoad	OnRoad	T7IS	T7IS	19,245	Annual VMT	Source: Fehr & Peer	3,079.83	1.10	0.50	59.27	0.02	0.01	62.50
2019	OnRoad	OnRoad	UBUS	UBUS	960,288	Annual VMT	Source: Fehr & Peer	1,577.52	0.89	0.22	1,514.87	0.85	0.21	1,597.11

Year	Emissions Sector	Calculation Sector	Sub-Sector	EMFAC Categories	BAU or Leg-Adjusted?	Activity Growth Method	Activity Growth Fa	Activity	Activity Unit	Notes	g CO2 per mi	g CH4 per mi	g N2O per mi	MT CO2	MT CH4	MT N2O	MT CO2e
2030	OnRoad	OnRoad	All Other Buses	All Other Buses	BAU	FehrPeers VMT	1.166	656,847	Annual VMT		1,269.96	0.13	0.20	834.17	0.08	0.13	873.18
2030	OnRoad	OnRoad	LDA	LDA	BAU	FehrPeers VMT	1.166	542,265,838	Annual VMT		315.30	0.02	0.01	170,976.82	9.40	6.53	173,022.77
2030	OnRoad	OnRoad	LDT1	LDT1	BAU	FehrPeers VMT	1.166	53,336,192	Annual VMT		376.90	0.03	0.02	20,102.62	1.78	1.12	20,459.21
2030	OnRoad	OnRoad	LDT2	LDT2	BAU	FehrPeers VMT	1.166	222,778,897	Annual VMT		406.09	0.02	0.02	90,467.72	4.37	3.46	91,533.00
2030	OnRoad	OnRoad	LHD1	LHD1	BAU	FehrPeers VMT	1.166	39,597,628	Annual VMT		837.15	0.03	0.06	33,149.27	1.02	2.52	33,865.55
2030	OnRoad	OnRoad	LHD2	LHD2	BAU	FehrPeers VMT	1.166	9,034,440	Annual VMT		888.58	0.02	0.09	8,027.84	0.16	0.82	8,254.95
2030	OnRoad	OnRoad	MCY	MCY	BAU	FehrPeers VMT	1.166	4,307,636	Annual VMT		218.68	0.31	0.05	941.98	1.32	0.22	1,037.99
2030	OnRoad	OnRoad	MDV	MDV	BAU	FehrPeers VMT	1.166	152,486,628	Annual VMT		491.58	0.03	0.02	74,958.85	4.48	3.35	75,998.48
2030	OnRoad	OnRoad	MH	MH	BAU	FehrPeers VMT	1.166	1,205,231	Annual VMT		1,747.51	0.02	0.07	2,106.15	0.03	0.08	2,128.33
2030	OnRoad	OnRoad	Motor Coach	Motor Coach	BAU	FehrPeers VMT	1.166	309,919	Annual VMT		1,841.22	0.01	0.29	570.63	0.00	0.09	595.24
2030	OnRoad	OnRoad	OBUS	OBUS	BAU	FehrPeers VMT	1.166	936,550	Annual VMT		1,870.91	0.04	0.05	1,752.20	0.04	0.04	1,765.37
2030	OnRoad	OnRoad	PTO	PTO	BAU	FehrPeers VMT	1.166	582,879	Annual VMT		2,181.06	0.02	0.34	1,271.29	0.01	0.20	1,326.20
2030	OnRoad	OnRoad	SBUS	SBUS	BAU	FehrPeers VMT	1.166	848,943	Annual VMT		1,181.28	0.09	0.17	1,002.83	0.08	0.15	1,045.18
2030	OnRoad	OnRoad	T6 CAIRP heavy	T6 CAIRP heavy	BAU	FehrPeers VMT	1.166	404,940	Annual VMT		1,058.54	0.00	0.17	428.65	0.00	0.07	447.11
2030	OnRoad	OnRoad	T6 CAIRP small	T6 CAIRP small	BAU	FehrPeers VMT	1.166	107,274	Annual VMT		1,136.97	0.00	0.18	121.97	0.00	0.02	127.22
2030	OnRoad	OnRoad	T6 instate heavy	T6 instate heavy	BAU	FehrPeers VMT	1.166	2,197,069	Annual VMT		1,192.82	0.02	0.19	2,620.70	0.03	0.41	2,734.50
2030	OnRoad	OnRoad	T6 instate small	T6 instate small	BAU	FehrPeers VMT	1.166	7,918,075	Annual VMT		1,248.13	0.01	0.20	9,882.79	0.10	1.56	10,310.28
2030	OnRoad	OnRoad	T6 OOS heavy	T6 OOS heavy	BAU	FehrPeers VMT	1.166	237,212	Annual VMT		1,057.42	0.00	0.17	250.83	0.00	0.04	261.64
2030	OnRoad	OnRoad	T6 OOS small	T6 OOS small	BAU	FehrPeers VMT	1.166	54,209	Annual VMT		1,136.97	0.00	0.18	61.63	0.00	0.01	64.29
2030	OnRoad	OnRoad	T6 Public	T6 Public	BAU	FehrPeers VMT	1.166	4,857,328	Annual VMT		1,373.70	0.05	0.22	6,672.52	0.22	1.06	6,967.58
2030	OnRoad	OnRoad	T6 Utility	T6 Utility	BAU	FehrPeers VMT	1.166	60,979	Annual VMT		1,188.75	0.01	0.19	72.49	0.00	0.01	75.62
2030	OnRoad	OnRoad	T6TS	T6TS	BAU	FehrPeers VMT	1.166	3,452,582	Annual VMT		1,944.20	0.07	0.06	6,712.49	0.25	0.19	6,771.79
2030	OnRoad	OnRoad	T7 CAIRP	T7 CAIRP	BAU	FehrPeers VMT	1.166	4,510,516	Annual VMT		1,719.11	0.03	0.27	7,754.07	0.12	1.22	8,091.56
2030	OnRoad	OnRoad	T7 NNOOS	T7 NNOOS	BAU	FehrPeers VMT	1.166	5,196,314	Annual VMT		1,719.53	0.01	0.27	8,935.23	0.05	1.41	9,320.51
2030	OnRoad	OnRoad	T7 NOOS	T7 NOOS	BAU	FehrPeers VMT	1.166	1,889,418	Annual VMT		1,732.19	0.01	0.27	3,272.83	0.01	0.52	3,413.85
2030	OnRoad	OnRoad	T7 Other Port	T7 Other Port	BAU	FehrPeers VMT	1.166	43,572	Annual VMT		1,783.29	0.01	0.28	77.70	0.00	0.01	81.05
2030	OnRoad	OnRoad	T7 POAK	T7 POAK	BAU	FehrPeers VMT	1.166	85,339	Annual VMT		1,826.99	0.01	0.29	155.91	0.00	0.02	162.63
2030	OnRoad	OnRoad	T7 Public	T7 Public	BAU	FehrPeers VMT	1.166	4,577,731	Annual VMT		2,047.21	0.04	0.32	9,371.60	0.16	1.48	9,780.02
2030	OnRoad	OnRoad	T7 Single	T7 Single	BAU	FehrPeers VMT	1.166	2,935,494	Annual VMT		1,759.53	0.04	0.28	5,165.10	0.12	0.82	5,391.48
2030	OnRoad	OnRoad	T7 SWCV	T7 SWCV	BAU	FehrPeers VMT	1.166	1,480,233	Annual VMT		3,200.41	2.78	0.54	4,737.35	4.11	0.81	5,072.03
2030	OnRoad	OnRoad	T7 Tractor	T7 Tractor	BAU	FehrPeers VMT	1.166	1,826,919	Annual VMT		1,684.27	0.03	0.27	3,077.03	0.05	0.49	3,210.98
2030	OnRoad	OnRoad	T7 Utility	T7 Utility	BAU	FehrPeers VMT	1.166	33,163	Annual VMT		1,810.33	0.00	0.28	60.04	0.00	0.01	62.62
2030	OnRoad	OnRoad	T7IS	T7IS	BAU	FehrPeers VMT	1.166	22,431	Annual VMT		3,079.83	1.10	0.50	69.08	0.02	0.01	72.85
2030	OnRoad	OnRoad	UBUS	UBUS	BAU	FehrPeers VMT	1.166	1,119,224	Annual VMT		1,577.52	0.89	0.22	1,765.59	0.99	0.25	1,861.45
2045	OnRoad	OnRoad	All Other Buses	All Other Buses	BAU	FehrPeers VMT	1.422	801,622	Annual VMT		1,269.96	0.13	0.20	1,018.02	0.10	0.16	1,065.64
2045	OnRoad	OnRoad	LDA	LDA	BAU	FehrPeers VMT	1.422	661,786,548	Annual VMT		315.30	0.02	0.01	208,661.79	11.47	7.97	211,158.69
2045	OnRoad	OnRoad	LDT1	LDT1	BAU	FehrPeers VMT	1.422	65,092,012	Annual VMT		376.90	0.03	0.02	24,533.43	2.18	1.37	24,968.62
2045	OnRoad	OnRoad	LDT2	LDT2	BAU	FehrPeers VMT	1.422	271,881,551	Annual VMT		406.09	0.02	0.02	110,407.69	5.34	4.22	111,707.78
2045	OnRoad	OnRoad	LHD1	LHD1	BAU	FehrPeers VMT	1.422	48,325,334	Annual VMT		837.15	0.03	0.06	40,455.70	1.24	3.07	41,329.85
2045	OnRoad	OnRoad	LHD2	LHD2	BAU	FehrPeers VMT	1.422	11,025,720	Annual VMT		888.58	0.02	0.09	9,797.25	0.19	1.00	10,074.42
2045	OnRoad	OnRoad	MCY	MCY	BAU	FehrPeers VMT	1.422	5,257,081	Annual VMT		218.68	0.31	0.05	1,149.60	1.61	0.26	1,266.78
2045	OnRoad	OnRoad	MDV	MDV	BAU	FehrPeers VMT	1.422	186,096,176	Annual VMT		491.58	0.03	0.02	91,480.51	5.47	4.09	92,749.29

2045	OnRoad	OnRoad	MH	MH	BAU	FehrPeers VMT	1.422	1,470,875	Annual VMT		1,747.51	0.02	0.07	2,570.36	0.03	0.10	2,597.43
2045	OnRoad	OnRoad	Motor Coach	Motor Coach	BAU	FehrPeers VMT	1.422	378,228	Annual VMT		1,841.22	0.01	0.29	696.40	0.00	0.11	726.44
2045	OnRoad	OnRoad	OBUS	OBUS	BAU	FehrPeers VMT	1.422	1,142,974	Annual VMT		1,870.91	0.04	0.05	2,138.40	0.05	0.05	2,154.48
2045	OnRoad	OnRoad	PTO	PTO	BAU	FehrPeers VMT	1.422	711,351	Annual VMT		2,181.06	0.02	0.34	1,551.50	0.01	0.24	1,618.51
2045	OnRoad	OnRoad	SBUS	SBUS	BAU	FehrPeers VMT	1.422	1,036,058	Annual VMT		1,181.28	0.09	0.17	1,223.87	0.10	0.18	1,275.54
2045	OnRoad	OnRoad	T6 CAIRP heavy	T6 CAIRP heavy	BAU	FehrPeers VMT	1.422	494,193	Annual VMT		1,058.54	0.00	0.17	523.12	0.00	0.08	545.66
2045	OnRoad	OnRoad	T6 CAIRP small	T6 CAIRP small	BAU	FehrPeers VMT	1.422	130,918	Annual VMT		1,136.97	0.00	0.18	148.85	0.00	0.02	155.26
2045	OnRoad	OnRoad	T6 instate heavy	T6 instate heavy	BAU	FehrPeers VMT	1.422	2,681,324	Annual VMT		1,192.82	0.02	0.19	3,198.33	0.04	0.50	3,337.20
2045	OnRoad	OnRoad	T6 instate small	T6 instate small	BAU	FehrPeers VMT	1.422	9,663,296	Annual VMT		1,248.13	0.01	0.20	12,061.05	0.12	1.90	12,582.76
2045	OnRoad	OnRoad	T6 OOS heavy	T6 OOS heavy	BAU	FehrPeers VMT	1.422	289,495	Annual VMT		1,057.42	0.00	0.17	306.12	0.00	0.05	319.31
2045	OnRoad	OnRoad	T6 OOS small	T6 OOS small	BAU	FehrPeers VMT	1.422	66,157	Annual VMT		1,136.97	0.00	0.18	75.22	0.00	0.01	78.46
2045	OnRoad	OnRoad	T6 Public	T6 Public	BAU	FehrPeers VMT	1.422	5,927,931	Annual VMT		1,373.70	0.05	0.22	8,143.21	0.27	1.29	8,503.31
2045	OnRoad	OnRoad	T6 Utility	T6 Utility	BAU	FehrPeers VMT	1.422	74,419	Annual VMT		1,188.75	0.01	0.19	88.47	0.00	0.01	92.28
2045	OnRoad	OnRoad	T6TS	T6TS	BAU	FehrPeers VMT	1.422	4,213,565	Annual VMT		1,944.20	0.07	0.06	8,191.99	0.31	0.23	8,264.36
2045	OnRoad	OnRoad	T7 CAIRP	T7 CAIRP	BAU	FehrPeers VMT	1.422	5,504,678	Annual VMT		1,719.11	0.03	0.27	9,463.14	0.14	1.49	9,875.02
2045	OnRoad	OnRoad	T7 NNOOS	T7 NNOOS	BAU	FehrPeers VMT	1.422	6,341,633	Annual VMT		1,719.53	0.01	0.27	10,904.65	0.06	1.72	11,374.85
2045	OnRoad	OnRoad	T7 NOOS	T7 NOOS	BAU	FehrPeers VMT	1.422	2,305,864	Annual VMT		1,732.19	0.01	0.27	3,994.19	0.02	0.63	4,166.30
2045	OnRoad	OnRoad	T7 Other Port	T7 Other Port	BAU	FehrPeers VMT	1.422	53,175	Annual VMT		1,783.29	0.01	0.28	94.83	0.00	0.01	98.91
2045	OnRoad	OnRoad	T7 POAK	T7 POAK	BAU	FehrPeers VMT	1.422	104,149	Annual VMT		1,826.99	0.01	0.29	190.28	0.00	0.03	198.48
2045	OnRoad	OnRoad	T7 Public	T7 Public	BAU	FehrPeers VMT	1.422	5,586,707	Annual VMT		2,047.21	0.04	0.32	11,437.19	0.20	1.81	11,935.64
2045	OnRoad	OnRoad	T7 Single	T7 Single	BAU	FehrPeers VMT	1.422	3,582,506	Annual VMT		1,759.53	0.04	0.28	6,303.54	0.15	1.00	6,579.81
2045	OnRoad	OnRoad	T7 SWCV	T7 SWCV	BAU	FehrPeers VMT	1.422	1,806,491	Annual VMT		3,200.41	2.78	0.54	5,781.50	5.01	0.98	6,189.96
2045	OnRoad	OnRoad	T7 Tractor	T7 Tractor	BAU	FehrPeers VMT	1.422	2,229,590	Annual VMT		1,684.27	0.03	0.27	3,755.24	0.06	0.59	3,918.71
2045	OnRoad	OnRoad	T7 Utility	T7 Utility	BAU	FehrPeers VMT	1.422	40,472	Annual VMT		1,810.33	0.00	0.28	73.27	0.00	0.01	76.42
2045	OnRoad	OnRoad	T7IS	T7IS	BAU	FehrPeers VMT	1.422	27,374	Annual VMT		3,079.83	1.10	0.50	84.31	0.03	0.01	88.90
2045	OnRoad	OnRoad	UBUS	UBUS	BAU	FehrPeers VMT	1.422	1,365,912	Annual VMT		1,577.52	0.89	0.22	2,154.75	1.21	0.30	2,271.73
2030	OnRoad	OnRoad	All Other Buses	All Other Buses	Leg-Adjusted	FehrPeers VMT	1.166	656,847	Annual VMT		1,079.67	0.12	0.18	709.18	0.08	0.12	742.83
2030	OnRoad	OnRoad	LDA	LDA	Leg-Adjusted	FehrPeers VMT	1.166	542,265,838	Annual VMT		241.88	0.01	0.01	131,162.67	4.16	3.63	132,269.21
2030	OnRoad	OnRoad	LDT1	LDT1	Leg-Adjusted	FehrPeers VMT	1.166	53,336,192	Annual VMT		322.04	0.01	0.01	17,176.58	0.78	0.58	17,355.68
2030	OnRoad	OnRoad	LDT2	LDT2	Leg-Adjusted	FehrPeers VMT	1.166	222,778,897	Annual VMT		327.27	0.01	0.01	72,909.63	2.15	1.88	73,483.03
2030	OnRoad	OnRoad	LHD1	LHD1	Leg-Adjusted	FehrPeers VMT	1.166	39,597,628	Annual VMT		705.67	0.01	0.05	27,943.01	0.58	2.06	28,521.54
2030	OnRoad	OnRoad	LHD2	LHD2	Leg-Adjusted	FehrPeers VMT	1.166	9,034,440	Annual VMT		756.59	0.01	0.08	6,835.39	0.09	0.74	7,040.73
2030	OnRoad	OnRoad	MCY	MCY	Leg-Adjusted	FehrPeers VMT	1.166	4,307,636	Annual VMT		210.75	0.24	0.04	907.82	1.04	0.18	987.10
2030	OnRoad	OnRoad	MDV	MDV	Leg-Adjusted	FehrPeers VMT	1.166	152,486,628	Annual VMT		395.07	0.01	0.01	60,243.51	1.83	1.58	60,724.52
2030	OnRoad	OnRoad	MH	MH	Leg-Adjusted	FehrPeers VMT	1.166	1,205,231	Annual VMT		1,667.75	0.01	0.07	2,010.03	0.01	0.08	2,032.67
2030	OnRoad	OnRoad	Motor Coach	Motor Coach	Leg-Adjusted	FehrPeers VMT	1.166	309,919	Annual VMT		1,736.15	0.00	0.27	538.07	0.00	0.08	561.23
2030	OnRoad	OnRoad	OBUS	OBUS	Leg-Adjusted	FehrPeers VMT	1.166	936,550	Annual VMT		1,608.57	0.03	0.03	1,506.50	0.03	0.03	1,516.04
2030	OnRoad	OnRoad	PTO	PTO	Leg-Adjusted	FehrPeers VMT	1.166	582,879	Annual VMT		1,729.53	0.00	0.27	1,008.11	0.00	0.16	1,051.48
2030	OnRoad	OnRoad	SBUS	SBUS	Leg-Adjusted	FehrPeers VMT	1.166	848,943	Annual VMT		1,060.36	0.07	0.14	900.19	0.06	0.12	934.72
2030	OnRoad	OnRoad	T6 CAIRP heavy	T6 CAIRP heavy	Leg-Adjusted	FehrPeers VMT	1.166	404,940	Annual VMT		890.40	0.00	0.14	360.56	0.00	0.06	376.07
2030	OnRoad	OnRoad	T6 CAIRP small	T6 CAIRP small	Leg-Adjusted	FehrPeers VMT	1.166	107,274	Annual VMT		927.73	0.00	0.15	99.52	0.00	0.02	103.80
2030	OnRoad	OnRoad	T6 instate heavy	T6 instate heavy	Leg-Adjusted	FehrPeers VMT	1.166	2,197,069	Annual VMT		1,047.02	0.01	0.17	2,300.36	0.03	0.36	2,400.35
2030	OnRoad	OnRoad	T6 instate small	T6 instate small	Leg-Adjusted	FehrPeers VMT	1.166	7,918,075	Annual VMT		1,042.48	0.00	0.16	8,254.44	0.01	1.30	8,609.62
2030	OnRoad	OnRoad	T6 OOS heavy	T6 OOS heavy	Leg-Adjusted	FehrPeers VMT	1.166	237,212	Annual VMT		942.00	0.00	0.15	223.45	0.00	0.04	233.07
2030	OnRoad	OnRoad	T6 OOS small	T6 OOS small	Leg-Adjusted	FehrPeers VMT	1.166	54,209	Annual VMT		1,025.54	0.00	0.16	55.59	0.00	0.01	57.99
2030	OnRoad	OnRoad	T6 Public	T6 Public	Leg-Adjusted	FehrPeers VMT	1.166	4,857,328	Annual VMT		1,117.92	0.11	0.18	5,430.12	0.54	0.88	5,684.48
2030	OnRoad	OnRoad	T6 Utility	T6 Utility	Leg-Adjusted	FehrPeers VMT	1.166	60,979	Annual VMT		942.23	0.00	0.15	57.46	0.00	0.01	59.93
2030	OnRoad	OnRoad	T6TS	T6TS	Leg-Adjusted	FehrPeers VMT	1.166	3,452,582	Annual VMT		1,613.64	0.03	0.02	5,571.22	0.10	0.09	5,597.47
2030	OnRoad	OnRoad	T7 CAIRP	T7 CAIRP	Leg-Adjusted	FehrPeers VMT	1.166	4,510,516	Annual VMT		1,376.20	0.02	0.22	6,207.37	0.10	0.98	6,478.10
2030	OnRoad	OnRoad	T7 NNOOS	T7 NNOOS	Leg-Adjusted	FehrPeers VMT	1.166	5,196,314	Annual VMT		1,414.86	0.00	0.22	7,352.08	0.01	1.16	7,668.69
2030	OnRoad	OnRoad	T7 NOOS	T7 NOOS	Leg-Adjusted	FehrPeers VMT	1.166	1,889,418	Annual VMT		1,461.93	0.00	0.23	2,762.20	0.01	0.44	2,881.17
2030	OnRoad	OnRoad	T7 Other Port	T7 Other Port	Leg-Adjusted	FehrPeers VMT	1.166	43,572	Annual VMT		1,465.50	0.00	0.23	63.85	0.00	0.01	66.60
2030	OnRoad	OnRoad	T7 POAK	T7 POAK	Leg-Adjusted	FehrPeers VMT	1.166	85,339	Annual VMT		1,550.84	0.00	0.24	132.35	0.00	0.02	138.04
2030	OnRoad	OnRoad	T7 Public	T7 Public	Leg-Adjusted	FehrPeers VMT	1.166	4,577,731	Annual VMT		1,689.69	0.05	0.27	7,734.95	0.21	1.23	8,075.38
2030	OnRoad	OnRoad	T7 Single	T7 Single	Leg-Adjusted	FehrPeers VMT	1.166	2,935,494	Annual VMT		1,504.62	0.04	0.24	4,416.81	0.13	0.70	4,611.68
2030	OnRoad	OnRoad	T7 SWCV	T7 SWCV	Leg-Adjusted	FehrPeers VMT	1.166	1,480,233	Annual VMT		1,998.96	1.62	0.37	2,958.93	2.40	0.55	3,175.10
2030	OnRoad	OnRoad	T7 Tractor	T7 Tractor	Leg-Adjusted	FehrPeers VMT	1.166	1,826,919	Annual VMT		1,503.74	0.02	0.24	2,747.20	0.04	0.43	2,866.68
2030	OnRoad	OnRoad	T7 Utility	T7 Utility	Leg-Adjusted	FehrPeers VMT	1.166	33,163	Annual VMT		1,554.79	0.00	0.24	51.56	0.00	0.01	53.78
2030	OnRoad	OnRoad	T7IS	T7IS	Leg-Adjusted	FehrPeers VMT	1.166	22,431	Annual VMT		1,804.61	0.11	0.17	40.48	0.00	0.00	41.56
2030	OnRoad	OnRoad	UBUS	UBUS	Leg-Adjusted	FehrPeers VMT	1.166	1,119,224	Annual VMT		1,140.81	2.08	0.14	1,276.82	2.32	0.15	1,383.67
2045	OnRoad	OnRoad	All Other Buses	All Other Buses	Leg-Adjusted	FehrPeers VMT	1.422	801,622	Annual VMT		1,011.36	0.12	0.16	810.73	0.09	0.13	849.47
2045	OnRoad	OnRoad	LDA	LDA	Leg-Adjusted	FehrPeers VMT	1.422	661,786,548	Annual VMT		213.59	0.00	0.01	141,351.70	3.02	3.67	142,438.82
2045	OnRoad	OnRoad	LDT1	LDT1	Leg-Adjusted	FehrPeers VMT	1.422	65,092,012	Annual VMT		275.82	0.01	0.01	17,953.75	0.37	0.44	18,083.13
2045	OnRoad	OnRoad	LDT2	LDT2	Leg-Adjusted	FehrPeers VMT	1.422	271,881,551	Annual VMT		292.90	0.01	0.01	79,632.89	1.79	1.97	80,219.73
2045	OnRoad	OnRoad	LHD1	LHD1	Leg-Adjusted	FehrPeers VMT	1.422	48,325,334	Annual VMT		403.53	0.01	0.03	19,500.72	0.28	1.39	19,886.63
2045	OnRoad	OnRoad	LHD2	LHD2	Leg-Adjusted	FehrPeers VMT	1.422	11,025,720	Annual VMT		444.34	0.00	0.05	4,899.17	0.05	0.56	5,053.13
2045	OnRoad	OnRoad	MCY	MCY	Leg-Adjusted	FehrPeers VMT	1.422	5,257,081	Annual VMT		204.81	0.20	0.04	1,076.73	1.04	0.20	1,160.66
2045	OnRoad	OnRoad	MDV	MDV	Leg-Adjusted	FehrPeers VMT	1.422	186,096,176	Annual VMT		348.23	0.01	0.01	64,804.22	1.32	1.47	65,243.63
2045	OnRoad	OnRoad	MH	MH	Leg-Adjusted	FehrPeers VMT	1.422	1,470,875	Annual VMT		1,638.61	0.00	0.07	2,410.19	0.01	0.11	2,439.91
2045	OnRoad	OnRoad	Motor Coach	Motor Coach	Leg-Adjusted	FehrPeers VMT	1.422	378,228	Annual VMT		1,597.21	0.00	0.25	604.11	0.00	0.10	630.12
2045	OnRoad	OnRoad	OBUS	OBUS	Leg-Adjusted	FehrPeers VMT	1.422	1,142,974	Annual VMT		795.15	0.02	0.02	908.84	0.02	0.02	914.88
2045	OnRoad	OnRoad	PTO	PTO	Leg-Adjusted	FehrPeers VMT	1.422	711,351	Annual VMT		887.43	0.00	0.14	631.27	0.00	0.10	658.43
2045	OnRoad	OnRoad	SBUS	SBUS	Leg-Adjusted	FehrPeers VMT	1.422	1,036,058	Annual VMT		620.28	0.06	0.08	642.65	0.06	0.08	666.58
2045	OnRoad	OnRoad	T6 CAIRP heavy	T6 CAIRP heavy	Leg-Adjusted	FehrPeers VMT	1.422	494,193	Annual VMT		678.95	0.00	0.11	335.53	0.00	0.05	349.97
2045	OnRoad	OnRoad	T6 CAIRP small	T6 CAIRP small	Leg-Adjusted	FehrPeers VMT	1.422	130,918	Annual VMT		418.96	0.00	0.07	54.85	0.00	0.01	57.21
2045	OnRoad	OnRoad	T6 instate heavy	T6 instate heavy	Leg-Adjusted	FehrPeers VMT	1.422	2,681,324	Annual VMT		672.26	0.01	0.11	1,802.54	0.02	0.28	1,880.83
2045	OnRoad	OnRoad	T6 instate small	T6 instate small	Leg-Adjusted	FehrPeers VMT	1.422	9,663,296	Annual VMT		489.52	0.00	0.08	4,730.42	0.00	0.75	4,933.94
2045	OnRoad	OnRoad	T6 OOS heavy	T6 OOS heavy	Leg-Adjusted	FehrPeers VMT	1.422	289,495	Annual VMT		858.20	0.00	0.14	248.45	0.00	0.04	259.13
2045	OnRoad	OnRoad	T6 OOS small	T6 OOS small	Leg-Adjusted	FehrPeers VMT	1.422	66,157	Annual VMT		959.33	0.00	0.15	63.47	0.00	0.01	66.20
2045	OnRoad	OnRoad	T6 Public	T6 Public	Leg-Adjusted	FehrPeers VMT	1.422	5,927,931	Annual VMT		660.01	0.08	0.11	3,912.49	0.50	0.64	4,100.17
2045	OnRoad	OnRoad	T6 Utility	T6 Utility	Leg-Adjusted	FehrPeers VMT	1.422	74,419	Annual VMT		433.19	0.00	0.07	32.24	0.00	0.01	33.63
2045	OnRoad	OnRoad	T6TS	T6TS	Leg-Adjusted	FehrPeers VMT	1.422	4,213,565	Annual VMT		753.24	0.01	0.01	3,173.82	0.05	0.04	3,186.64
2045	OnRoad	OnRoad	T7 CAIRP	T7 CAIRP	Leg-Adjusted	FehrPeers VMT	1.422	5,504,678	Annual VMT		1,062.10	0.01	0.17	5,846.51	0.08	0.92	6,100.95
2045	OnRoad	OnRoad	T7 NNOOS	T7 NNOOS	Leg-Adjusted	FehrPeers VMT	1.422	6,341,633	Annual VMT		1,305.36	0.00	0.21	8,278.12	0.02	1.30	8,634.63
2045	OnRoad	OnRoad	T7 NOOS	T7 NOOS	Leg-Adjusted	FehrPeers VMT	1.422	2,305,864	Annual VMT		1,319.63	0.00	0.21	3,042.88	0.01	0.48	3,173.95
2045	OnRoad	OnRoad	T7 Other Port	T7 Other Port	Leg-Adjusted	FehrPeers VMT	1.422	53,175	Annual VMT		1,116.21	0.00	0.18	59.35	0.00	0.01	61.91
2045	OnRoad	OnRoad	T7 POAK	T7 POAK	Leg-Adjusted	FehrPeers VMT	1.422	104,149	Annual VMT		1,158.25	0.00	0.18	120.63	0.00	0.02	125.82
2045	OnRoad	OnRoad	T7 Public	T7 Public	Leg-Adjusted	FehrPeers VMT	1.422	5,586,707	Annual VMT		1,016.24	0.04	0.16	5,677.42	0.20	0.90	5,928.85
2045	OnRoad	OnRoad	T7 Single	T7 Single	Leg-Adjusted	FehrPeers VMT	1.422	3,582,506	Annual VMT		789.25	0.03	0.13	2,827.50	0.09	0.45	2,952.58
2045	OnRoad	OnRoad	T7 SWCV	T7 SWCV	Leg-Adjusted	FehrPeers VMT	1.422	1,806,491	Annual VMT		947.41	0.43	0.19	1,711.49	0.78	0.34	1,825.60
2045	OnRoad	OnRoad	T7 Tractor	T7 Tractor	Leg-Adjusted	FehrPeers VMT	1.422	2,229,590	Annual VMT		1,145.40	0.02	0.18	2,553.77	0.03	0.40	2,664.86
2045	OnRoad	OnRoad	T7 Utility	T7 Utility	Leg-Adjusted	FehrPeers VMT	1.422	40,472	Annual VMT		897.91	0.00	0.14	36.34	0.00	0.01	37.90
2045	OnRoad	OnRoad	T7IS	T7IS	Leg-Adjusted	FehrPeers VMT	1.422	27,374	Annual VMT		879.91	0.05	0.05	24.09	0.00	0.00	24.51
2045	OnRoad	OnRoad	UBUS	UBUS	Leg-Adjusted	FehrPeers VMT	1.422	1,365,912	Annual VMT		4.81	0.00	0.00	6.57	0.00	0.00	6.94

EMFAC Categories	Annual VMT	Notes	g CO2 per mi	g CH4 per mi	g N2O per mi	MT CO2	MT CH4	MT N2O	MT CO2e
All Other Buses	563,571	Source: Fehr & Peers	1,269.96	0.13	0.20	715.71	0.07	0.12	749.18
LDA	465,261,020	Source: Fehr & Peers	315.30	0.02	0.01	146,697.14	8.06	5.61	148,452.56
LDT1	45,762,151	Source: Fehr & Peers	376.90	0.03	0.02	17,247.93	1.53	0.96	17,553.89
LDT2	191,143,033	Source: Fehr & Peers	406.09	0.02	0.02	77,620.79	3.75	2.96	78,534.80
LHD1	33,974,541	Source: Fehr & Peers	837.15	0.03	0.06	28,441.89	0.87	2.16	29,056.45
LHD2	7,751,499	Source: Fehr & Peers	888.58	0.02	0.09	6,887.84	0.14	0.70	7,082.70
MCY	3,695,927	Source: Fehr & Peers	218.68	0.31	0.05	808.21	1.13	0.19	890.59
MDV	130,832,664	Source: Fehr & Peers	491.58	0.03	0.02	64,314.27	3.85	2.87	65,206.26
MH	1,034,081	Source: Fehr & Peers	1,747.51	0.02	0.07	1,807.06	0.02	0.07	1,826.09
Motor Coach	265,909	Source: Fehr & Peers	1,841.22	0.01	0.29	489.60	0.00	0.08	510.71
OBUS	803,554	Source: Fehr & Peers	1,870.91	0.04	0.05	1,503.38	0.03	0.04	1,514.68
PTO	500,107	Source: Fehr & Peers	2,181.06	0.02	0.34	1,090.76	0.01	0.17	1,137.87
SBUS	728,388	Source: Fehr & Peers	1,181.28	0.09	0.17	860.43	0.07	0.13	896.76
T6 CAIRP heavy	347,437	Source: Fehr & Peers	1,058.54	0.00	0.17	367.78	0.00	0.06	383.62
T6 CAIRP small	92,040	Source: Fehr & Peers	1,136.97	0.00	0.18	104.65	0.00	0.02	109.15
T6 instate heavy	1,885,072	Source: Fehr & Peers	1,192.82	0.02	0.19	2,248.55	0.03	0.35	2,346.18
T6 instate small	6,793,663	Source: Fehr & Peers	1,248.13	0.01	0.20	8,479.37	0.09	1.33	8,846.16
T6 OOS heavy	203,526	Source: Fehr & Peers	1,057.42	0.00	0.17	215.21	0.00	0.03	224.49
T6 OOS small	46,511	Source: Fehr & Peers	1,136.97	0.00	0.18	52.88	0.00	0.01	55.16
T6 Public	4,167,560	Source: Fehr & Peers	1,373.70	0.05	0.22	5,724.99	0.19	0.91	5,978.15
T6 Utility	52,319	Source: Fehr & Peers	1,188.75	0.01	0.19	62.19	0.00	0.01	64.88
T6TS	2,962,296	Source: Fehr & Peers	1,944.20	0.07	0.06	5,759.28	0.22	0.16	5,810.16
T7 CAIRP	3,869,997	Source: Fehr & Peers	1,719.11	0.03	0.27	6,652.95	0.10	1.05	6,942.51
T7 NNOOS	4,458,408	Source: Fehr & Peers	1,719.53	0.01	0.27	7,666.38	0.04	1.21	7,996.95
T7 NOOS	1,621,110	Source: Fehr & Peers	1,732.19	0.01	0.27	2,808.07	0.01	0.44	2,929.06
T7 Other Port	37,384	Source: Fehr & Peers	1,783.29	0.01	0.28	66.67	0.00	0.01	69.54
T7 POAK	73,221	Source: Fehr & Peers	1,826.99	0.01	0.29	133.77	0.00	0.02	139.54
T7 Public	3,927,667	Source: Fehr & Peers	2,047.21	0.04	0.32	8,040.78	0.14	1.27	8,391.21
T7 Single	2,518,637	Source: Fehr & Peers	1,759.53	0.04	0.28	4,431.63	0.10	0.70	4,625.86
T7 SWCV	1,270,032	Source: Fehr & Peers	3,200.41	2.78	0.54	4,064.62	3.52	0.69	4,351.77
T7 Tractor	1,567,486	Source: Fehr & Peers	1,684.27	0.03	0.27	2,640.08	0.04	0.42	2,755.00
T7 Utility	28,454	Source: Fehr & Peers	1,810.33	0.00	0.28	51.51	0.00	0.01	53.73
T7IS	19,245	Source: Fehr & Peers	3,079.83	1.10	0.50	59.27	0.02	0.01	62.50
UBUS	960,288	Source: Fehr & Peers	1,577.52	0.89	0.22	1,514.87	0.85	0.21	1,597.11
TOTAL	919,218,798	-	48903.93116	5.854847144	6.73948816	409630.496	24.89998124	24.98193776	417145.2745

Off-Road Vehicles and Equipment

Year	Emissions Sector	Calculation Sector	Sub-Sector	Jurisdiction Scaling Method	Jurisdiction Scaling Factor	Notes	CO2 (tons/day)	CH4 (tons/day)	N2O (tons/day)	MT CO2	MT CH4	MT N2O	MT CO2e	Activity	Activity Unit
2019	OffRoad	OffRoad Equipment	Construction and Mining	Service Population	0.062645243		16.14414104	7.50E-05	4.22E-06	14.64572259	6.81E-05	3.83E-06	5,350	5,350	MT CO2e
2019	OffRoad	OffRoad Equipment	Entertainment Equipment	Employment	0.087580708		0.162351987	5.32E-07	0.00E+00	0.147283288	4.83E-07	0.00E+00	54	54	MT CO2e
2019	OffRoad	OffRoad Equipment	Industrial	Employment	0.087580708		4.293360574	1.29E-04	2.17E-05	3.894872312	1.17E-04	1.97E-05	1,426	1,426	MT CO2e
2019	OffRoad	OffRoad Equipment	Lawn and Garden Equipment	Population	0.051034532		0.411382392	3.09E-05	1.35E-05	0.373199935	2.80E-05	1.22E-05	138	138	MT CO2e
2019	OffRoad	OffRoad Equipment	Light Commercial Equipment	Employment	0.087580708		2.520745477	5.81E-05	3.60E-05	2.286782485	5.27E-05	3.27E-05	839	839	MT CO2e
2019	OffRoad	OffRoad Equipment	Portable Equipment	Employment	0.087580708	New from OFFROAD2021	7.475228813	1.62E-05	5.14E-06	6.781415451	1.47E-05	4.67E-06	2,478	2,478	MT CO2e
2019	OffRoad	OffRoad Equipment	Recreational Equipment	Population	0.051034532		0.235511218	9.30E-05	1.97E-05	0.213652245	8.43E-05	1.79E-05	81	81	MT CO2e
2019	OffRoad	OffRoad Equipment	Transport Refrigeration Units	Service Population	0.062645243		1.995956464	9.10E-06	5.95E-07	1.810701765	8.26E-06	5.39E-07	661	661	MT CO2e

Year	Emissions Sector	Calculation Sector	Sub-Sector	BAU or Leg-Adjusted?	Jurisdiction Scaling Method	Activity Growth Method	Jurisdiction Scaling Factor	Activity Growth Factor	Legislative Adjustment	Notes	CO2 (tons/day)	CH4 (tons/day)	N2O (tons/day)	MT CO2	MT CH4	MT N2O	MT CO2e	Activity	Activity Unit
2030	OffRoad	OffRoad Equipment	Construction and Mining	BAU	Service Population	Service Population	0.0697454	1.259049328	1		22.63003146	1.05E-04	5.92E-06	20.5296251	9.54E-05	5.37E-06	7,500	7,500	MT CO2e
2030	OffRoad	OffRoad Equipment	Entertainment Equipment	BAU	Employment	Employment	0.092452151	1.187324608	1		0.203486521	6.67E-07	0.00E+00	0.18459992	6.05E-07	0.00E+00	67	67	MT CO2e
2030	OffRoad	OffRoad Equipment	Industrial	BAU	Employment	Employment	0.092452151	1.187324608	1		5.38115376	1.61E-04	2.72E-05	4.88170197	1.46E-04	2.47E-05	1,787	1,787	MT CO2e
2030	OffRoad	OffRoad Equipment	Lawn and Garden Equipment	BAU	Population	Population	0.059256014	1.316362515	1		0.628766661	4.72E-05	2.06E-05	0.57040768	4.28E-05	1.87E-05	211	211	MT CO2e
2030	OffRoad	OffRoad Equipment	Light Commercial Equipment	BAU	Employment	Employment	0.092452151	1.187324608	1		3.159417609	7.28E-05	4.51E-05	2.86617626	6.61E-05	4.09E-05	1,052	1,052	MT CO2e
2030	OffRoad	OffRoad Equipment	Portable Equipment	BAU	Employment	Employment	0.092452151	1.187324608	1		9.369200407	2.03E-05	6.45E-06	8.49959807	1.84E-05	5.85E-06	3,105	3,105	MT CO2e
2030	OffRoad	OffRoad Equipment	Recreational Equipment	BAU	Population	Population	0.059256014	1.316362515	1		0.359960964	1.42E-04	3.01E-05	0.32655119	1.29E-04	2.73E-05	123	123	MT CO2e
2030	OffRoad	OffRoad Equipment	Transport Refrigeration Units	BAU	Service Population	Service Population	0.0697454	1.259049328	1		2.797829718	1.28E-05	8.34E-07	2.53814915	1.16E-05	7.56E-07	927	927	MT CO2e
2045	OffRoad	OffRoad Equipment	Construction and Mining	BAU	Service Population	Service Population	0.07541485	1.502040341	1		29.19209819	1.36E-04	7.63E-06	26.4826336	1.23E-04	6.92E-06	9,675	9,675	MT CO2e
2045	OffRoad	OffRoad Equipment	Entertainment Equipment	BAU	Employment	Employment	0.096265046	1.358471102	1		0.242419853	7.94E-07	0.00E+00	0.21991965	7.21E-07	0.00E+00	80	80	MT CO2e
2045	OffRoad	OffRoad Equipment	Industrial	BAU	Employment	Employment	0.096265046	1.358471102	1		6.41073667	1.92E-04	3.24E-05	5.81572415	1.74E-04	2.94E-05	2,129	2,129	MT CO2e
2045	OffRoad	OffRoad Equipment	Lawn and Garden Equipment	BAU	Population	Population	0.065840207	1.616762442	1		0.858062584	6.44E-05	2.81E-05	0.77842151	5.84E-05	2.55E-05	287	287	MT CO2e
2045	OffRoad	OffRoad Equipment	Light Commercial Equipment	BAU	Employment	Employment	0.096265046	1.358471102	1		3.76391295	8.68E-05	5.37E-05	3.41456537	7.87E-05	4.88E-05	1,253	1,253	MT CO2e
2045	OffRoad	OffRoad Equipment	Portable Equipment	BAU	Employment	Employment	0.096265046	1.358471102	1		11.16182129	2.41E-05	7.68E-06	10.1258368	2.19E-05	6.97E-06	3,699	3,699	MT CO2e
2045	OffRoad	OffRoad Equipment	Recreational Equipment	BAU	Population	Population	0.065840207	1.616762442	1		0.491229982	1.94E-04	4.11E-05	0.44563647	1.76E-04	3.73E-05	168	168	MT CO2e
2045	OffRoad	OffRoad Equipment	Transport Refrigeration Units	BAU	Service Population	Service Population	0.07541485	1.502040341	1		3.609120915	1.65E-05	1.08E-06	3.27414036	1.49E-05	9.75E-07	1,196	1,196	MT CO2e
2030	OffRoad	OffRoad Equipment	Construction and Mining	Leg-Adjusted	Service Population	Service Population	0.0697454	1.259049328	1		22.63003146	1.05E-04	5.92E-06	20.5296251	9.54E-05	5.37E-06	7,500	7,500	MT CO2e
2030	OffRoad	OffRoad Equipment	Entertainment Equipment	Leg-Adjusted	Employment	Employment	0.092452151	1.187324608	1		0.203486521	6.67E-07	0.00E+00	0.18459992	6.05E-07	0.00E+00	67	67	MT CO2e
2030	OffRoad	OffRoad Equipment	Industrial	Leg-Adjusted	Employment	Employment	0.092452151	1.187324608	1		5.38115376	1.61E-04	2.72E-05	4.88170197	1.46E-04	2.47E-05	1,787	1,787	MT CO2e
2030	OffRoad	OffRoad Equipment	Lawn and Garden Equipment	Leg-Adjusted	Population	Population	0.059256014	1.316362515	1		0.628766661	4.72E-05	2.06E-05	0.57040768	4.28E-05	1.87E-05	211	211	MT CO2e
2030	OffRoad	OffRoad Equipment	Light Commercial Equipment	Leg-Adjusted	Employment	Employment	0.092452151	1.187324608	1		3.159417609	7.28E-05	4.51E-05	2.86617626	6.61E-05	4.09E-05	1,052	1,052	MT CO2e
2030	OffRoad	OffRoad Equipment	Portable Equipment	Leg-Adjusted	Employment	Employment	0.092452151	1.187324608	1		9.369200407	2.03E-05	6.45E-06	8.49959807	1.84E-05	5.85E-06	3,105	3,105	MT CO2e
2030	OffRoad	OffRoad Equipment	Recreational Equipment	Leg-Adjusted	Population	Population	0.059256014	1.316362515	1		0.359960964	1.42E-04	3.01E-05	0.32655119	1.29E-04	2.73E-05	123	123	MT CO2e
2030	OffRoad	OffRoad Equipment	Transport Refrigeration Units	Leg-Adjusted	Service Population	Service Population	0.0697454	1.259049328	1		2.797829718	1.28E-05	8.34E-07	2.53814915	1.16E-05	7.56E-07	927	927	MT CO2e
2045	OffRoad	OffRoad Equipment	Construction and Mining	Leg-Adjusted	Service Population	Service Population	0.07541485	1.502040341	1		29.19209819	1.36E-04	7.63E-06	26.4826336	1.23E-04	6.92E-06	9,675	9,675	MT CO2e
2045	OffRoad	OffRoad Equipment	Entertainment Equipment	Leg-Adjusted	Employment	Employment	0.096265046	1.358471102	1		0.242419853	7.94E-07	0.00E+00	0.21991965	7.21E-07	0.00E+00	80	80	MT CO2e
2045	OffRoad	OffRoad Equipment	Industrial	Leg-Adjusted	Employment	Employment	0.096265046	1.358471102	1		6.41073667	1.92E-04	3.24E-05	5.81572415	1.74E-04	2.94E-05	2,129	2,129	MT CO2e
2045	OffRoad	OffRoad Equipment	Lawn and Garden Equipment	Leg-Adjusted	Population	Population	0.065840207	1.616762442	1		0.858062584	6.44E-05	2.81E-05	0.77842151	5.84E-05	2.55E-05	287	287	MT CO2e
2045	OffRoad	OffRoad Equipment	Light Commercial Equipment	Leg-Adjusted	Employment	Employment	0.096265046	1.358471102	1		3.76391295	8.68E-05	5.37E-05	3.41456537	7.87E-05	4.88E-05	1,253	1,253	MT CO2e
2045	OffRoad	OffRoad Equipment	Portable Equipment	Leg-Adjusted	Employment	Employment	0.096265046	1.358471102	1		11.16182129	2.41E-05	7.68E-06	10.1258368	2.19E-05	6.97E-06	3,699	3,699	MT CO2e
2045	OffRoad	OffRoad Equipment	Recreational Equipment	Leg-Adjusted	Population	Population	0.065840207	1.616762442	1		0.491229982	1.94E-04	4.11E-05	0.44563647	1.76E-04	3.73E-05	168	168	MT CO2e
2045	OffRoad	OffRoad Equipment	Transport Refrigeration Units	Leg-Adjusted	Service Population	Service Population	0.07541485	1.502040341	1		3.609120915	1.65E-05	1.08E-06	3.27414036	1.49E-05	9.75E-07	1,196	1,196	MT CO2e

Water

Year	Emissions Sector	Sub-Sector	Water District/Provider	Location	Extraction and Conveyance	Treatment	Water Use (AF/year)	Percent of Source Inside Jurisdiction	Utility (if applicable)	Notes	Activity	Activity Unit	Energy Use (kBTU)	MT CO2	MT CH4	MT N2O	MT CO2e
2019	Water	Water	Sacramento County Water Agency Zone 40	Sacramento River	Local Deliveries	Conventional Potable Treatment	14,016	0%	SMUD	Source: City of Rancho Cordova Water Supply	7,106,007	kWh	24,246,701	1,649	0.106	0	1,655.80
2019	Water	Water	Sacramento County Water Agency Zone 41	Sacramento River	Groundwater	Conventional Potable Treatment	11,174	0%	SMUD	Source: City of Rancho Cordova Water Supply	7,687,375	kWh	26,230,410	1,784	0	0	1,791
2019	Water	Water	Sacramento County Water Agency Zone 42	Sacramento River	Recycled Water	Recycled Water - Tertiary Treatment + Disinfection	1,289	0%	SMUD	Source: City of Rancho Cordova Water Supply	741,124	kWh	2,528,819	172	0	0	173
2019	Water	Water	Golden State Water Company	Sacramento River	Local Deliveries	Conventional Potable Treatment	15,000	0%	SMUD	Source: City of Rancho Cordova Water Supply	7,605,000	kWh	25,949,336	1,765	0	0	1,772
2019	Water	Water	Golden State Water Company	Sacramento River	Groundwater	Conventional Potable Treatment	10,751	0%	SMUD	Source: City of Rancho Cordova Water Supply	7,396,688	kWh	25,238,546	1,717	0	0	1,724
2019	Water	Water	California Amercian Water	Sacramento River	Groundwater	Conventional Potable Treatment	8,773	0%	SMUD	Source: City of Rancho Cordova Water Supply	6,036,145	kWh	20,596,180	1,401	0	0	1,407
2019	Water	Water	California Amercian Water	Sacramento River	Local Deliveries	Conventional Potable Treatment	4,642	0%	SMUD	Source: City of Rancho Cordova Water Supply	2,353,443	kWh	8,030,279	546	0	0	548

Year	Emissions Sector	Sub-Sector	Water District/Provider	Location	Extraction and Conveyance	Treatment	Activity Growth Method	Activity Growth Factor	BAU or Leg-Adjusted?	Legislative Adjustment	Water Use (AF/year)	Percent of Source Inside Jurisdiction	Utility (if applicable)	Notes	Activity	Activity Unit	Energy Use (kBTU)	MT CO2	MT CH4	MT N2O	MT CO2e
2030	Water	Water	Sacramento County Water Agency Zone 40	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.316362515	BAU	1	18,450	0%	SMUD		9,354,081	kWh	31,917,448	2,171	0	0	2,180
2030	Water	Water	Sacramento County Water Agency Zone 41	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.316362515	BAU	1	14,708	0%	SMUD		10,119,371.89	kWh	34,528,728.58	2,349	0	0	2,357.96
2030	Water	Water	Sacramento County Water Agency Zone 42	Sacramento River	Recycled Water	Recycled Water - Tertiary Treatment + Disinfection	Population	1.316362515	BAU	1	1,697	0%	SMUD		975,587.52	kWh	3,328,842.65	226	0	0	227.33
2030	Water	Water	Golden State Water Company	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.316362515	BAU	1	19,745	0%	SMUD		10,010,936.93	kWh	34,158,733.15	2,324	0	0	2,332.69
2030	Water	Water	Golden State Water Company	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.316362515	BAU	1	14,152	0%	SMUD		9,736,722.82	kWh	33,223,075.81	2,260	0	0	2,268.80
2030	Water	Water	California Amercian Water	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.316362515	BAU	1	11,549	0%	SMUD		7,945,754.71	kWh	27,112,039.23	1,844	0	0	1,851.48
2030	Water	Water	California Amercian Water	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.316362515	BAU	1	6,110	0%	SMUD		3,097,983.54	kWh	10,570,758	719	0	0	722
2045	Water	Water	Sacramento County Water Agency Zone 40	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.616762442	BAU	1	22,660	0%	SMUD		11,488,725	kWh	39,201,155	2,667	0	0	2,677
2045	Water	Water	Sacramento County Water Agency Zone 41	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.616762442	BAU	1	18,065	0%	SMUD		12,428,658.69	kWh	42,408,341.85	2,885	0	0	2,896.06
2045	Water	Water	Sacramento County Water Agency Zone 42	Sacramento River	Recycled Water	Recycled Water - Tertiary Treatment + Disinfection	Population	1.616762442	BAU	1	2,084	0%	SMUD		1,198,221.04	kWh	4,088,499.72	278	0	0	279.20
2045	Water	Water	Golden State Water Company	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.616762442	BAU	1	24,251	0%	SMUD		12,295,478.37	kWh	41,953,911.77	2,854	0	0	2,865.03
2045	Water	Water	Golden State Water Company	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.616762442	BAU	1	17,382	0%	SMUD		11,958,687.35	kWh	40,804,733.17	2,776	0	0	2,786.55
2045	Water	Water	California Amercian Water	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.616762442	BAU	1	14,185	0%	SMUD		9,759,012.16	kWh	33,299,130.18	2,265	0	0	2,273.99
2045	Water	Water	California Amercian Water	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.616762442	BAU	1	7,505	0%	SMUD		3,804,957.50	kWh	12,983,053	883	0	0	887
2050	Water	Water	Sacramento County Water Agency Zone 40	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.772697998	BAU	1	24,846	0%	SMUD		12,596,804	kWh	42,982,078	2,924	0	0	2,935
2050	Water	Water	Sacramento County Water Agency Zone 41	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.772697998	BAU	1	19,807	0%	SMUD		13,627,393.74	kWh	46,498,595.43	3,163	0	0	3,175.38
2050	Water	Water	Sacramento County Water Agency Zone 42	Sacramento River	Recycled Water	Recycled Water - Tertiary Treatment + Disinfection	Population	1.772697998	BAU	1	2,285	0%	SMUD		1,313,788.59	kWh	4,482,832.53	305	0	0	306.13
2050	Water	Water	Golden State Water Company	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.772697998	BAU	1	26,590	0%	SMUD		13,481,368.28	kWh	46,000,335.90	3,129	0	0	3,141.36
2050	Water	Water	Golden State Water Company	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.772697998	BAU	1	19,058	0%	SMUD		13,112,094.01	kWh	44,740,319.86	3,043	0	0	3,055.31
2050	Water	Water	California Amercian Water	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.772697998	BAU	1	15,553	0%	SMUD		10,700,261.75	kWh	36,510,806.95	2,484	0	0	2,493.32
2050	Water	Water	California Amercian Water	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.772697998	BAU	1	8,229	0%	SMUD		4,171,942.87	kWh	14,235,259	968	0	0	972
2030	Water	Water	Sacramento County Water Agency Zone 40	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.316362515	Leg-Adjusted	1	18,450	0%	SMUD		9,354,081.01	kWh	31,917,447.83	-	-	-	-
2030	Water	Water	Sacramento County Water Agency Zone 41	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.316362515	Leg-Adjusted	1	14,708	0%	SMUD		10,119,371.89	kWh	34,528,728.58	-	-	-	-
2030	Water	Water	Sacramento County Water Agency Zone 42	Sacramento River	Recycled Water	Recycled Water - Tertiary Treatment + Disinfection	Population	1.316362515	Leg-Adjusted	1	1,697	0%	SMUD		975,587.52	kWh	3,328,842.65	-	-	-	-
2030	Water	Water	Golden State Water Company	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.316362515	Leg-Adjusted	1	19,745	0%	SMUD		10,010,936.93	kWh	34,158,733.15	-	-	-	-
2030	Water	Water	Golden State Water Company	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.316362515	Leg-Adjusted	1	14,152	0%	SMUD		9,736,722.82	kWh	33,223,075.81	-	-	-	-
2030	Water	Water	California Amercian Water	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.316362515	Leg-Adjusted	1	11,549	0%	SMUD		7,945,754.71	kWh	27,112,039.23	-	-	-	-
2030	Water	Water	California Amercian Water	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.316362515	Leg-Adjusted	1	6,110	0%	SMUD		3,097,983.54	kWh	10,570,758.13	-	-	-	-
2045	Water	Water	Sacramento County Water Agency Zone 40	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.616762442	Leg-Adjusted	1	22,660	0%	SMUD		11,488,724.94	kWh	39,201,154.93	-	-	-	-
2045	Water	Water	Sacramento County Water Agency Zone 41	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.616762442	Leg-Adjusted	1	18,065	0%	SMUD		12,428,658.69	kWh	42,408,341.85	-	-	-	-
2045	Water	Water	Sacramento County Water Agency Zone 42	Sacramento River	Recycled Water	Recycled Water - Tertiary Treatment + Disinfection	Population	1.616762442	Leg-Adjusted	1	2,084	0%	SMUD		1,198,221.04	kWh	4,088,499.72	-	-	-	-
2045	Water	Water	Golden State Water Company	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.616762442	Leg-Adjusted	1	24,251	0%	SMUD		12,295,478.37	kWh	41,953,911.77	-	-	-	-
2045	Water	Water	Golden State Water Company	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.616762442	Leg-Adjusted	1	17,382	0%	SMUD		11,958,687.35	kWh	40,804,733.17	-	-	-	-
2045	Water	Water	California Amercian Water	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.616762442	Leg-Adjusted	1	14,185	0%	SMUD		9,759,012.16	kWh	33,299,130.18	-	-	-	-
2045	Water	Water	California Amercian Water	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.616762442	Leg-Adjusted	1	7,505	0%	SMUD		3,804,957.50	kWh	12,983,053.32	-	-	-	-
2050	Water	Water	Sacramento County Water Agency Zone 40	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.772697998	Leg-Adjusted	1	24,846	0%	SMUD		12,596,804.07	kWh	42,982,077.67	-	-	-	-
2050	Water	Water	Sacramento County Water Agency Zone 41	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.772697998	Leg-Adjusted	1	19,807	0%	SMUD		13,627,393.74	kWh	46,498,595.43	-	-	-	-
2050	Water	Water	Sacramento County Water Agency Zone 42	Sacramento River	Recycled Water	Recycled Water - Tertiary Treatment + Disinfection	Population	1.772697998	Leg-Adjusted	1	2,285	0%	SMUD		1,313,788.59	kWh	4,482,832.53	-	-	-	-
2050	Water	Water	Golden State Water Company	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.772697998	Leg-Adjusted	1	26,590	0%	SMUD		13,481,368.28	kWh	46,000,335.90	-	-	-	-
2050	Water	Water	Golden State Water Company	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.772697998	Leg-Adjusted	1	19,058	0%	SMUD		13,112,094.01	kWh	44,740,319.86	-	-	-	-
2050	Water	Water	California Amercian Water	Sacramento River	Groundwater	Conventional Potable Treatment	Population	1.772697998	Leg-Adjusted	1	15,553	0%	SMUD		10,700,261.75	kWh	36,510,806.95	-	-	-	-
2050	Water	Water	California Amercian Water	Sacramento River	Local Deliveries	Conventional Potable Treatment	Population	1.772697998	Leg-Adjusted	1	8,229	0%	SMUD		4,171,942.87	kWh	14,235,259.32	-	-	-	-

Wastewater Process Emissions

Year	Emissions Sector	Sub-Sector	WWTP Name	WWTP Process	WW Equation	Digester Gas (ft3/day)	Fraction of CH4 in Biogas	Population Served	BTU Content of biogas	Mass of incinerated biosolids	FP	BOD5 Load (kg BOD5/day)	N Load (kg N/day)	Methanol Load (MT CH3OH/day)	Sludge Treatment Type	F_ind-com	EF_effluent	N uptake	Natural Gas (therms)	Electricity (MWh)	Utility (if applic	MT CO2	MT CH4	MT N2O	MT CO2e
2019	Wastewater	WWTP	SASD/SRCSD	Wastewater Treatment Plants without	WW.1.a	139,571	65%															-	0.109	-	3.0
2019	Wastewater	WWTP	SASD/SRCSD	Wastewater Treatment Plants without	WW.8			139,571								1.25						-	-	0.56	152
2019	Wastewater	WWTP	SASD/SRCSD	Effluent Discharge	WW.12								3,628.84				0.005					-	-	10.41	2,843.05
2019	Wastewater	WWTP	SASD/SRCSD	with Wastewater Collection and	WW.15															1,484	SMUD	344.513	0.022	0.003	345.9
2019	Wastewater	WWTP	SASD/SRCSD	Energy-related Emissions Associated with Wastewater Collection and Treatment	WW.15															10,068	SMUD	2,337	0	0	2,346

Year	Emissions Sector	Sub-Sector	WWTP Name	WWTP Process	WW Equation	Activity Growth Method	Activity Growth Factor	BAU or Leg-Adjuste	Notes	MT CO2	MT CH4	MT N2O	MT CO2e
2030	Wastewater	WWTP	SASD/SRCSD	Wastewater Treatment Plants without	WW.1.a	Population	1.316362515	BAU		-	0.14	-	4.00
2030	Wastewater	WWTP	SASD/SRCSD	Process Nitrous Oxide Emissions from Wastewater Treatment Plants without Nitrification or Denitrification	WW.8	Population	1.316362515	BAU		-	-	0.73	200.63
2030	Wastewater	WWTP	SASD/SRCSD	Fugitive Nitrous Oxide Emissions from Effluent Discharge	WW.12	Population	1.316362515	BAU		-	-	13.71	3,742.49
2030	Wastewater	WWTP	SASD/SRCSD	Energy-related Emissions Associated with Wastewater Collection and Treatment	WW.15	Population	1.316362515	BAU		3,529.45	0.23	0.03	3,543.33
2045	Wastewater	WWTP	SASD/SRCSD	Process Nitrous Oxide Emissions from Wastewater Treatment Plants without Nitrification or Denitrification	WW.1.a	Population	1.616762442	BAU		-	0.18	-	4.92
2045	Wastewater	WWTP	SASD/SRCSD	Process Nitrous Oxide Emissions from Wastewater Treatment Plants without Nitrification or Denitrification	WW.8	Population	1.616762442	BAU		-	-	0.90	246.41
2045	Wastewater	WWTP	SASD/SRCSD	Fugitive Nitrous Oxide Emissions from Effluent Discharge	WW.12	Population	1.616762442	BAU		-	-	16.84	4,596.54
2045	Wastewater	WWTP	SASD/SRCSD	Energy-related Emissions Associated with Wastewater Collection and Treatment	WW.15	Population	1.616762442	BAU		4,334.89	0.28	0.03	4,351.94
2030	Wastewater	WWTP	SASD/SRCSD	Process Nitrous Oxide Emissions from Wastewater Treatment Plants without Nitrification or Denitrification	WW.1.a	Population	1.316362515	Leg-Adjusted		-	0.14	-	4.00
2030	Wastewater	WWTP	SASD/SRCSD	Process Nitrous Oxide Emissions from Wastewater Treatment Plants without Nitrification or Denitrification	WW.8	Population	1.316362515	Leg-Adjusted		-	-	0.73	200.63
2030	Wastewater	WWTP	SASD/SRCSD	Fugitive Nitrous Oxide Emissions from Effluent Discharge	WW.12	Population	1.316362515	Leg-Adjusted		-	-	13.71	3,742.49
2030	Wastewater	WWTP	SASD/SRCSD	Energy-related Emissions Associated with Wastewater Collection and Treatment	WW.15	Population	1.316362515	Leg-Adjusted		3,529.45	0.23	0.03	3,543.33
2045	Wastewater	WWTP	SASD/SRCSD	Process Nitrous Oxide Emissions from Wastewater Treatment Plants without Nitrification or Denitrification	WW.1.a	Population	1.616762442	Leg-Adjusted		-	0.18	-	4.92
2045	Wastewater	WWTP	SASD/SRCSD	Process Nitrous Oxide Emissions from Wastewater Treatment Plants without Nitrification or Denitrification	WW.8	Population	1.616762442	Leg-Adjusted		-	-	0.90	246.41
2045	Wastewater	WWTP	SASD/SRCSD	Fugitive Nitrous Oxide Emissions from Effluent Discharge	WW.12	Population	1.616762442	Leg-Adjusted		-	-	16.84	4,596.54
2045	Wastewater	WWTP	SASD/SRCSD	Energy-related Emissions Associated with Wastewater Collection and Treatment	WW.15	Population	1.616762442	Leg-Adjusted		4,334.89	0.28	0.03	4,351.94

Waste Generation

Year	Emissions Sector	Sub-Sector	Landfill Name	Annual Waste Tonnage Delivered from Jurisdiction	Annual ADC Tonnage Delivered from Jurisdiction	Activity	Activity Unit	Percent of year under LFG collection	LFG Collection Efficiency	Oxidation Rate	Notes	MT CO2	MT CH4	MT N2O	MT CO2e
2019	Solid Waste	Waste Generation	Community-Generated Solid Waste Disposed of Outside Jurisdiction	56,877	2587	59,464	tons	100%	75%	10%			802.76		22,397

Year	Emissions Sector	Sub-Sector	Landfill Name	BAU or Leg-Adjusted?	Activity Growth Method	Activity Growth Factor	Legislative Adjustment	Annual Waste Tonnage Delivered from Jurisdiction	Annual ADC Tonnage Delivered from Jurisdiction	Activity	Activity Unit	Percent of year under LFG collection	LFG Collection Efficiency	Oxidation Rate	Notes	MT CO2	MT CH4	MT N2O	MT CO2e
2030	Solid Waste	Waste Generation	Community-Generated Solid Waste Disposed of Outside Jurisdiction	BAU	Population	1.316362515	1	74,871	3,405	78,276	tons	100%	75%	10%	Total of all tonnage sent to		1,056.73		29,483
2045	Solid Waste	Waste Generation	Community-Generated Solid Waste Disposed of Outside Jurisdiction	BAU	Population	1.616762442	1	91,957	4,183	96,139	tons	100%	75%	10%	Total of all tonnage sent to		1,297.88		36,211
2050	Solid Waste	Waste Generation	Community-Generated Solid Waste Disposed of Outside Jurisdiction	BAU	Population	1.772697998	1	100,826	4,586	105,412	tons	100%	75%	10%	Total of all tonnage sent to		1,423.06		39,703
2030	Solid Waste	Waste Generation	Community-Generated Solid Waste Disposed of Outside Jurisdiction	Leg-Adjusted	Population	1.316362515	1	74,871	3,405	78,276	tons	100%	75%	10%	Total of all tonnage sent to		1,056.73		29,483
2045	Solid Waste	Waste Generation	Community-Generated Solid Waste Disposed of Outside Jurisdiction	Leg-Adjusted	Population	1.616762442	1	91,957	4,183	96,139	tons	100%	75%	10%	Total of all tonnage sent to		1,297.88		36,211
2050	Solid Waste	Waste Generation	Community-Generated Solid Waste Disposed of Outside Jurisdiction	Leg-Adjusted	Population	1.772697998	1	100,826	4,586	105,412	tons	100%	75%	10%	Total of all tonnage sent to		1,423.06		39,703

Assumptions and Emission Factors

Conversion Factors	Value	Source/notes
g/MT	1000000	
g/ton	907184.74	
g/lb	453.592	
lb/ton	2000	
lb/MT	2204.622622	
kg/MT	1000	
lb/kg	2.20462	
MT/ton	0.907185	
kWh/MWh	1000	
MWh/GWh	1000	
Btu/therm	100000	
kBTU/MMBTU	1000	
MMBtu/therm	0.1	
MMBtu/MWh	3.41214148	Onlineconversion.com
gal/cubic foot	7.480519481	Onlineconversion.com
gal/Liter	3.785411784	Onlineconversion.com
Liter/gal	0.264172052	
gallon/acrefoot	325851.429	Onlineconversion.com
million gal/acre-feet	0.325851429	Onlineconversion.com
gal/barrel	42	Onlineconversion.com
kBTU/MJ	0.947817078	Onlineconversion.com
days/year	365.25	

Energy Type	KBTU	per Unit	
Electricity	3.41	kWh	Onlineconversion.com
Electricity	3412.14	MWh	
Natural Gas	99.98	therm	Onlineconversion.com
Natural Gas	1.03	scf	https://www.theclimateregistry.org/wp-content/uploads/2021/05/2021-Default-Emission-Factor-Document.pdf?mc_cid=4b45d12237&mc_eid=5f138d1baa
CNG	99.98	therm	Onlineconversion.com
LPG	91.33	gal	
LPG	2.52	scf	https://www.theclimateregistry.org/wp-content/uploads/2021/05/2021-Default-Emission-Factor-Document.pdf?mc_cid=4b45d12237&mc_eid=5f138d1baa
Propane	91.00	gal	
Diesel	138.10	gal	Calculated from Table 13.1 in 2017 Climate Registry Default Emission Factors
Gasoline	125.00	gal	Calculated from Table 13.1 in 2017 Climate Registry Default Emission Factors
Hydrogen	113.74	kg	
Renewable Diesel	122.88	gal	CARB LCFS Quarterly Summary April 2018 (129.65 MJ/gal)
Heating Oil	139.00	gal	https://www.engineeringtoolbox.com/energy-content-d_868.html
Fuel Wood	1000.00	MMBTU	
B2	137.90	gal	Calculated from Diesel and B100 energy densities, assuming 2 percent biodiesel
B5	137.60	gal	Calculated from Diesel and B100 energy densities, assuming 5 percent biodiesel
B20	136.10	gal	Calculated from Diesel and B100 energy densities, assuming 20 percent biodiesel
B100	128.10	gal	Calculated from Table 13.1 in 2017 Climate Registry Default Emission Factors

GWP Factors	Value		Comment			
CO2	1	Carbon Dioxide				included in CARB Inventory
CH4	27.9	Methane	Short Lived Climate Pollutant			included in CARB Inventory
N2O	273	Nitrous Oxide				included in CARB Inventory
SF6	22800	Sulphur Hexafluoride				included in CARB Inventory
NF3	17200	Nitrogen Trifluoride				included in CARB Inventory
C2F6	12200	Hexafluoroethane (PFC-116)				included in CARB Inventory
C3F8	8830	Octafluoropropane (PFC-218)				included in CARB Inventory
C4F8	10300	Octafluorocyclobutane (PFC-318)				included in CARB Inventory
CF4	7390	Tetrafluoromethane (PFC-14)				included in CARB Inventory
HFC-125	3500	Hydrofluorocarbon 125	Short Lived Climate Pollutant			included in CARB Inventory
HFC-134a	1430	Hydrofluorocarbon 134a	Short Lived Climate Pollutant			included in CARB Inventory
HFC-143a	4470	Hydrofluorocarbon 143a	Short Lived Climate Pollutant			included in CARB Inventory
HFC-152a	124	Hydrofluorocarbon 152a	Short Lived Climate Pollutant			included in CARB Inventory
HFC-227ea	3220	Hydrofluorocarbon 227ea	Short Lived Climate Pollutant			included in CARB Inventory
HFC-23	14800	Hydrofluorocarbon 23	Short Lived Climate Pollutant			included in CARB Inventory
HFC-236fa	9810	Hydrofluorocarbon 236fa				included in CARB Inventory
HFC-245fa	1030	Hydrofluorocarbon 245fa	Short Lived Climate Pollutant			included in CARB Inventory
HFC-32	675	Hydrofluorocarbon 32	Short Lived Climate Pollutant			included in CARB Inventory
HFC-365mfc	794	Hydrofluorocarbon 365mfc	Short Lived Climate Pollutant			included in CARB Inventory
HFC-43-10mee	1640	Hydrofluorocarbon 43-10mee	Short Lived Climate Pollutant			included in CARB Inventory
BC	900	Black Carbon	Short Lived Climate Pollutant	*CARB uses AR5 values.*		included in CARB Inventory
SO2F2	4630	Sulfuryl Flouride	Short Lived Climate Pollutant (unofficial)			*Not in CARB Inventory*
CH3Br	2.43	Methyl Bromide				*Not in CARB Inventory*
CFC-11	4660	Triflurochloromethane				*Not in CARB Inventory*

Source for GWP factors except for CH4 and N2O: https://ww2.arb.ca.gov/ghg-gwps (100-year IPCC AR4 GWP Values)

Source	CO2 GWP	CH4 GWP	N2O GWP	
IPCC Fourth Assessment Report (w/o climate	1	25	265	
IPCC Fourth Assessment Report (with climate	1	34	298	
IPCC Fourth Assessment Report (Avg)	1	25	298	
IPCC Fifth Assessment Report (Avg)	1	28	265	
IPCC Third Assessment Report	1	23	296	
IPCC Second Assessment Report	1	21	310	
IPCC Sixth Assessment Report	1	27.9	273	Source: https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC_AR6_WGI_Chapter_07_Supplementary_Material.pdf

Building Energy Efficiency Assumptions

Sector	% Reduction	Code	Notes	Source
Residential	25%	Energy efficiency improvement of 2013 code above 2008 code		http://www.energy.ca.gov/releases/2014_releases/2014-07-01_new_title24_standards_nr.html
	28%	Energy efficiency improvement of 2016 code above 2013 code	Lighting, heating, cooling, ventilation, and water heating	http://www.energy.ca.gov/title24/2016standards/rulemaking/documents/2016_Building_Energy_Efficiency_Standards_FAQ.pdf
	53%	Energy efficiency improvement of 2019 code above 2016 code	Includes onsite solar requirement	
Commercial	30%	Energy efficiency improvement of 2013 code above 2008 code		http://www.energy.ca.gov/commission/accomplishments/2014_cec_accomplishments.pdf
	5%	Energy efficiency improvement of 2016 code above 2013 code		http://www.energy.ca.gov/title24/2016standards/rulemaking/documents/2015-06-10_hearing/2015-06-10_Adoption_Hearing_Presentation.pdf
	30%	Energy efficiency improvement of 2019 code above 2016 code		
Combined % Reduction from 2008 code				
Residential	75%			
Non-Residential	53%			

Agricultural Emission Factors

Activity **Lime Fertilizer**	
Emission Factor MT C/MT lime	0.12
Molecular Mass of CO2	44.01
Atomic Mass of C	12.01
Molecular Mass Ratio	3.66
g CO2 per Ton of Lime Applied	398,886.47

Source: IPCC 2006 Equation 11.12 and 11.13. Note, the IPCC 2019 Refinement did not update these equations or emission factor

Nitrogen Fertilizer	
Nitrogen Volatilization (g N2O/g N)	0.0125
g N2O per ton of Nitrogen applied	11,339.81

Open Burning	
g CO2 per ton of open burning[1]	1,454,669.54
g CH4 per ton of open burning[1]	7,529.63
g CO2 per acre of open burning[2]	
g CH4 per acre of open burning[2]	
g CH4 per acre of open burning[2]	

Sources: 1. Emission factors from National Wildfire Coordinating Group, 2018, Smoke Management Guide for Prescribed Fire

Diesel Irrigation Pumps	
MBARD Emissions (CO2 tons/day) (CARB 2006)	122
MBARD Number of Pumps (CARB 2006)	647
MBARD Emission Factor (avg tpd/pump)	0.1886

Source: California Air Resources Board 2006. Rulemaking to Consider Proposed Amendments to the Stationary Diesel Engine Control Measure - Appendix D: Emission Inventory Methodology Agricultural Irrigation Pumps - Diesel. Available at: http://www.arb.ca.gov/regact/agen06/append.pdf. Table D-2

Waste Emission Factors

Table SW.5 CH_4 Yield for Solid Waste Components

Waste Component	Emissions Factor, EF_i (mt CH_4/wet short	Source
Mixed MSW*	0.06	U.S. EPA AP-42

* – Mixed MSW factor may be used for entire MSW waste stream if waste composition data is unavailable.
U.S. EPA AP-42 – U.S. EPA Emission Factor Database, Chapter 2.4 Municipal Solid Waste Landfills (1998)
WARM—Documentation for Greenhouse Gas Emissions and Energy Factors Used in the Waste Reduction Model (WARM) 2006

Demographics

City of Rancho Cordova Greenhouse Gas Inventory and Forecasts

	Population					Employment					Service Population					VMT				Dwelling Units				
Area	**2016**	**2019**	**2030**	**2040**	**2045**	**2016**	**2019**	**2030**	**2040**	**2045**	**2016**	**2019**	**2030**	**2040**	**2045**	**2016**	**2019**	**2030**	**2045**	**2016**	**2019**	**2030**	**2040**	**2045**
City	72,320	77,579	102,122	114,394	125,427	59,503	61,991	73,604	79,410	84,213	131,823	139,571	175,726	193,804	209,641	879,625,366	919,218,798	1,071,357,646	1,307,495,381	26,859	28,926	38,574	43,398	47,780
Total County	1,476,573	1,520,133	1,723,410	1,825,049	1,905,025	688,897	707,820	796,129	840,284	874,809	2,165,470	2,227,952	2,519,540	2,665,333	2,779,833	-	-	-	-					
	Source: SACOG			Source: SACOG		Source: SACOG			Source: SACOG											Source: SACOG				

	Population					Employment					Service Population					VMT			
Growth Rates	**2016**	**2019**	**2030**	**2040**	**2045**	**2016**	**2019**	**2030**	**2040**	**2045**	**2016**	**2019**	**2030**	**2040**	**2045**	**2016**	**2019**	**2030**	**2045**
Percent Growth from 2019	NA	NA	31.64%	47.45%	62%	NA	NA	18.73%	28.10%	36%	NA	NA	25.90%	38.86%	50.20%	NA	NA	16.55%	42%
Percent of Total County	4.90%	5.10%	5.93%	6.27%	7%	8.64%	8.76%	9.25%	9.45%	10%	6.09%	6.26%	6.97%	7.27%	7.54%	-	-	-	-

Year	Fuel Type	Utility (if applicable)	Percent GHG-Free	Unit	MT CO2 per unit	MT CH4 per unit	MT N2O per unit	MTCO2e per unit	MT CO2 per kBTU	MT CH4 per kBTU	MT N2O per kBTU	Notes	Source
2009	Electricity	eGRID CAMX		MWh	4.11E-01	2.30E-05	3.31E-06	4.13E-01	1.21E-04	6.73E-09	9.70E-10	https://www.epa.gov/energy/emissions-generation-resource-integrated-database-egrid	
2010	Electricity	eGRID CAMX	55%	MWh	3.97E-01	2.38E-05	3.45E-06	3.98E-01	1.16E-04	6.98E-09	1.01E-09	https://www.epa.gov/energy/emissions-generation-resource-integrated-database-egrid	
2011	Electricity	eGRID CAMX	55%	MWh	3.97E-01	2.38E-05	3.45E-06	3.98E-01	1.16E-04	6.98E-09	1.01E-09	2010 values	
2012	Electricity	eGRID CAMX	62%	MWh	4.00E-01	2.31E-05	3.13E-06	4.01E-01	1.17E-04	6.77E-09	9.17E-10	https://www.epa.gov/energy/emissions-generation-resource-integrated-database-egrid	
2013	Electricity	eGRID CAMX	62%	MWh	4.00E-01	2.31E-05	3.13E-06	4.01E-01	1.17E-04	6.77E-09	9.17E-10	2012 values	
2014	Electricity	eGRID CAMX	62%	MWh	3.83E-01	2.35E-05	2.86E-06	3.85E-01	1.12E-04	6.87E-09	8.37E-10	https://www.epa.gov/energy/emissions-generation-resource-integrated-database-egrid	
2015	Electricity	eGRID CAMX	62%	MWh	3.83E-01	2.35E-05	2.86E-06	3.85E-01	1.12E-04	6.87E-09	8.37E-10	2014 values	
2016	Electricity	eGRID CAMX	50%	MWh	2.05E-01	1.18E-05	1.36E-06	2.06E-01	6.02E-05	3.46E-09	3.99E-10	https://www.epa.gov/sites/production/files/2018-02/egrid2016_summarytables.xlsx	
2017	Electricity	eGRID CAMX	50%	MWh	2.05E-01	1.18E-05	1.36E-06	2.06E-01	6.02E-05	3.46E-09	3.99E-10	2016 values	
2018	Electricity	eGRID CAMX	50%	MWh	2.25E-01	1.54E-05	1.81E-06	2.26E-01	6.60E-05	4.52E-09	5.32E-10	https://www.epa.gov/sites/production/files/2020-01/documents/egrid2018_summary_tables.pdf	
2019	Electricity	eGRID CAMX	52%	MWh	2.06E-01	1.50E-05	1.81E-06	2.06E-01	6.02E-05	4.39E-09	5.32E-10	2019 values	
2020	Electricity	eGRID CAMX	54%	MWh	1.98E-01	1.44E-05	1.74E-06	1.99E-01	5.79E-05	4.22E-09	5.11E-10		
2021	Electricity	eGRID CAMX	56%	MWh	1.90E-01	1.38E-05	1.67E-06	1.91E-01	5.56E-05	4.05E-09	4.91E-10		
2022	Electricity	eGRID CAMX	58%	MWh	1.82E-01	1.32E-05	1.61E-06	1.83E-01	5.33E-05	3.88E-09	4.70E-10		
2023	Electricity	eGRID CAMX	60%	MWh	1.74E-01	1.27E-05	1.54E-06	1.75E-01	5.10E-05	3.71E-09	4.50E-10		
2024	Electricity	eGRID CAMX	61%	MWh	1.66E-01	1.21E-05	1.47E-06	1.67E-01	4.87E-05	3.54E-09	4.29E-10		
2025	Electricity	eGRID CAMX	63%	MWh	1.58E-01	1.15E-05	1.40E-06	1.59E-01	4.63E-05	3.37E-09	4.09E-10		
2026	Electricity	eGRID CAMX	65%	MWh	1.50E-01	1.09E-05	1.33E-06	1.51E-01	4.40E-05	3.21E-09	3.89E-10		
2027	Electricity	eGRID CAMX	67%	MWh	1.42E-01	1.04E-05	1.26E-06	1.43E-01	4.17E-05	3.04E-09	3.68E-10		
2028	Electricity	eGRID CAMX	69%	MWh	1.34E-01	9.79E-06	1.19E-06	1.35E-01	3.94E-05	2.87E-09	3.48E-10		
2029	Electricity	eGRID CAMX	71%	MWh	1.27E-01	9.21E-06	1.12E-06	1.27E-01	3.71E-05	2.70E-09	3.27E-10		
2030	Electricity	eGRID CAMX	72%	MWh	1.19E-01	8.64E-06	1.05E-06	1.19E-01	3.48E-05	2.53E-09	3.07E-10		
2031	Electricity	eGRID CAMX	74%	MWh	1.11E-01	8.06E-06	9.77E-07	1.11E-01	3.24E-05	2.36E-09	2.86E-10		
2032	Electricity	eGRID CAMX	76%	MWh	1.03E-01	7.48E-06	9.07E-07	1.03E-01	3.01E-05	2.19E-09	2.66E-10		
2033	Electricity	eGRID CAMX	78%	MWh	9.49E-02	6.91E-06	8.37E-07	9.53E-02	2.78E-05	2.02E-09	2.45E-10		
2034	Electricity	eGRID CAMX	80%	MWh	8.70E-02	6.33E-06	7.68E-07	8.74E-02	2.55E-05	1.86E-09	2.25E-10		
2035	Electricity	eGRID CAMX	82%	MWh	7.91E-02	5.76E-06	6.98E-07	7.94E-02	2.32E-05	1.69E-09	2.05E-10		
2036	Electricity	eGRID CAMX	83%	MWh	7.12E-02	5.18E-06	6.28E-07	7.15E-02	2.09E-05	1.52E-09	1.84E-10		
2037	Electricity	eGRID CAMX	85%	MWh	6.33E-02	4.61E-06	5.58E-07	6.35E-02	1.85E-05	1.35E-09	1.64E-10		
2038	Electricity	eGRID CAMX	87%	MWh	5.53E-02	4.03E-06	4.88E-07	5.56E-02	1.62E-05	1.18E-09	1.43E-10		
2039	Electricity	eGRID CAMX	89%	MWh	4.74E-02	3.45E-06	4.19E-07	4.77E-02	1.39E-05	1.01E-09	1.23E-10		
2040	Electricity	eGRID CAMX	91%	MWh	3.95E-02	2.88E-06	3.49E-07	3.97E-02	1.16E-05	8.44E-10	1.02E-10		
2041	Electricity	eGRID CAMX	93%	MWh	3.16E-02	2.30E-06	2.79E-07	3.18E-02	9.27E-06	6.75E-10	8.18E-11		
2042	Electricity	eGRID CAMX	94%	MWh	2.37E-02	1.73E-06	2.09E-07	2.38E-02	6.95E-06	5.06E-10	6.14E-11		
2043	Electricity	eGRID CAMX	96%	MWh	1.58E-02	1.15E-06	1.40E-07	1.59E-02	4.63E-06	3.37E-10	4.09E-11		
2044	Electricity	eGRID CAMX	98%	MWh	7.91E-03	5.76E-07	6.98E-08	7.94E-03	2.32E-06	1.69E-10	2.05E-11		
2045	Electricity	eGRID CAMX	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	SB100	
2016	Electricity	SMUD	43%	MWh	3.05E-01	1.18E-05	1.36E-06	3.06E-01	8.94E-05	3.46E-09	3.99E-10		
2017	Electricity	SMUD	54%	MWh	2.33E-01	1.18E-05	1.36E-06	2.34E-01	6.84E-05	3.46E-09	3.99E-10		
2018	Electricity	SMUD	36%	MWh	2.39E-01	1.54E-05	1.81E-06	2.40E-01	7.02E-05	4.52E-09	5.32E-10		
2019	Electricity	SMUD	69%	MWh	0.232101704	1.49685E-05	1.81437E-06	0.233014649	6.80E-05	4.39E-09	5.32E-10		
2020	Electricity	SMUD	72%	MWh	2.11E-01	1.36E-05	1.65E-06	2.12E-01	6.18E-05	3.99E-09	4.83E-10		
2021	Electricity	SMUD	75%	MWh	1.90E-01	1.22E-05	1.48E-06	1.91E-01	5.57E-05	3.59E-09	4.35E-10		
2022	Electricity	SMUD	78%	MWh	1.69E-01	1.09E-05	1.32E-06	1.69E-01	4.95E-05	3.19E-09	3.87E-10		
2023	Electricity	SMUD	81%	MWh	1.48E-01	9.53E-06	1.15E-06	1.48E-01	4.33E-05	2.79E-09	3.38E-10		
2024	Electricity	SMUD	83%	MWh	1.27E-01	8.16E-06	9.90E-07	1.27E-01	3.71E-05	2.39E-09	2.90E-10		
2025	Electricity	SMUD	86%	MWh	1.06E-01	6.80E-06	8.25E-07	1.06E-01	3.09E-05	1.99E-09	2.42E-10		
2026	Electricity	SMUD	89%	MWh	8.44E-02	5.44E-06	6.60E-07	8.47E-02	2.47E-05	1.60E-09	1.93E-10		
2027	Electricity	SMUD	92%	MWh	6.33E-02	4.08E-06	4.95E-07	6.35E-02	1.86E-05	1.20E-09	1.45E-10		
2028	Electricity	SMUD	94%	MWh	4.22E-02	2.72E-06	3.30E-07	4.24E-02	1.24E-05	7.98E-10	9.67E-11		
2029	Electricity	SMUD	97%	MWh	2.11E-02	1.36E-06	1.65E-07	2.12E-02	6.18E-06	3.99E-10	4.83E-11		
2030	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2031	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2032	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2033	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2034	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2035	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2036	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2037	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2038	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2039	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2040	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2041	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2042	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2043	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2044	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2045	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2050	Electricity	SMUD	100%	MWh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		
2019	Electricity	TPPA	not available	MWh	2.25E-01	1.50E-05	1.81E-06	2.26E-01	6.60E-05	4.39E-09	5.32E-10	Same as eGRID	
2030	Electricity	TPPA	not available	MWh	1.23E-01	8.64E-06	1.05E-06	1.24E-01	3.62E-05	2.53E-09	3.07E-10	Same as eGRID	
2040	Electricity	TPPA	not available	MWh	3.95E-02	2.88E-06	3.49E-07	3.97E-02	1.16E-05	8.44E-10	1.02E-10	Same as eGRID	
2050	Electricity	TPPA	not available	MWh	3.95E-02	2.88E-06	3.49E-07	3.97E-02	1.16E-05	8.44E-10	1.02E-10	Same as eGRID	
2019	Heating Oil	NA	not available	gal	7.27E-04	6.87E-09	1.59E-09	7.28E-04	5.23E-06	4.94E-11	1.14E-11		3. The Climate Registry, 2020 Default Emission Factors
2030	Heating Oil	NA	not available	gal	7.27E-04	6.87E-09	1.59E-09	7.28E-04	5.23E-06	4.94E-11	1.14E-11		3. The Climate Registry, 2020 Default Emission Factors
2040	Heating Oil	NA	not available	gal	7.27E-04	6.87E-09	1.59E-09	7.28E-04	5.23E-06	4.94E-11	1.14E-11		3. The Climate Registry, 2020 Default Emission Factors
2045	Heating Oil	NA	not available	gal	7.27E-04	6.87E-09	1.59E-09	7.28E-04	5.23E-06	4.94E-11	1.14E-11		3. The Climate Registry, 2020 Default Emission Factors
2050	Heating Oil	NA	not available	gal	7.27E-04	6.87E-09	1.59E-09	7.28E-04	5.23E-06	4.94E-11	1.14E-11		3. The Climate Registry, 2020 Default Emission Factors
2019	Fuel Wood	NA	not available	MMBTU	6.79E-01	1.83E-03	2.46E-05	7.37E-01	6.79E-04	1.83E-06	2.46E-08		3. The Climate Registry, 2020 Default Emission Factors
2030	Fuel Wood	NA	not available	MMBTU	6.79E-01	1.83E-03	2.46E-05	7.37E-01	6.79E-04	1.83E-06	2.46E-08		3. The Climate Registry, 2020 Default Emission Factors
2040	Fuel Wood	NA	not available	MMBTU	6.79E-01	1.83E-03	2.46E-05	7.37E-01	6.79E-04	1.83E-06	2.46E-08		3. The Climate Registry, 2020 Default Emission Factors
2045	Fuel Wood	NA	not available	MMBTU	6.79E-01	1.83E-03	2.46E-05	7.37E-01	6.79E-04	1.83E-06	2.46E-08		3. The Climate Registry, 2020 Default Emission Factors
2050	Fuel Wood	NA	not available	MMBTU	6.79E-01	1.83E-03	2.46E-05	7.37E-01	6.79E-04	1.83E-06	2.46E-08		3. The Climate Registry, 2020 Default Emission Factors
2019	Propane	NA	not available	gal	4.00E-04	7.13E-09	2.85E-08	4.08E-04	4.40E-06	7.84E-11	3.14E-10		*2. The Climate Registry, 2020 Default Emission Factors*
2030	Propane	NA	not available	gal	4.00E-04	7.13E-09	2.85E-08	4.08E-04	4.40E-06	7.84E-11	3.14E-10		*2. The Climate Registry, 2020 Default Emission Factors*
2040	Propane	NA	not available	gal	4.00E-04	7.13E-09	2.85E-08	4.08E-04	4.40E-06	7.84E-11	3.14E-10		*2. The Climate Registry, 2020 Default Emission Factors*
2050	Propane	NA	not available	gal	4.00E-04	7.13E-09	2.85E-08	4.08E-04	4.40E-06	7.84E-11	3.14E-10		*2. The Climate Registry, 2020 Default Emission Factors*
2019	LPG	NA	not available	gal	5.68E-06	5.09E-07	4.13E-07	1.33E-04	6.22E-08	5.57E-09	4.52E-09		*2. The Climate Registry, 2020 Default Emission Factors*
2030	LPG	NA	not available	gal	5.68E-06	5.09E-07	4.13E-07	1.33E-04	6.22E-08	5.57E-09	4.52E-09		*2. The Climate Registry, 2020 Default Emission Factors*
2040	LPG	NA	not available	gal	5.68E-06	5.09E-07	4.13E-07	1.33E-04	6.22E-08	5.57E-09	4.52E-09		*2. The Climate Registry, 2020 Default Emission Factors*
2045	LPG	NA	not available	gal	5.68E-06	5.09E-07	4.13E-07	1.33E-04	6.22E-08	5.57E-09	4.52E-09		*2. The Climate Registry, 2020 Default Emission Factors*
2019	LPG	NA	not available	scf	1.55E-04	9.23E-10	4.10E-09	1.56E-04	6.15E-05	3.67E-10	1.63E-09		
2030	LPG	NA	not available	scf	1.55E-04	9.23E-10	4.10E-09	1.56E-04	6.15E-05	3.67E-10	1.63E-09		
2040	LPG	NA	not available	scf	1.55E-04	9.23E-10	4.10E-09	1.56E-04	6.15E-05	3.67E-10	1.63E-09		
2045	LPG	NA	not available	scf	1.55E-04	9.23E-10	4.10E-09	1.56E-04	6.15E-05	3.67E-10	1.63E-09		
2050	LPG	NA	not available	scf	1.55E-04	9.23E-10	4.10E-09	1.56E-04	6.15E-05	3.67E-10	1.63E-09		
2019	Natural Gas	PG&E	not available	therm	5.31E-03	4.70E-07	1.00E-08	5.32E-03	5.31E-05	4.70E-09	1.00E-10		*2. The Climate Registry, 2020 Default Emission Factors*
2030	Natural Gas	PG&E	not available	therm	5.31E-03	4.70E-07	1.00E-08	5.32E-03	5.31E-05	4.70E-09	1.00E-10		*2. The Climate Registry, 2020 Default Emission Factors*
2040	Natural Gas	PG&E	not available	therm	5.31E-03	4.70E-07	1.00E-08	5.32E-03	5.31E-05	4.70E-09	1.00E-10		*2. The Climate Registry, 2020 Default Emission Factors*
2045	Natural Gas	PG&E	not available	therm	5.31E-03	4.70E-07	1.00E-08	5.32E-03	5.31E-05	4.70E-09	1.00E-10		*2. The Climate Registry, 2020 Default Emission Factors*
2050	Natural Gas	PG&E	not available	therm	5.31E-03	4.70E-07	1.00E-08	5.32E-03	5.31E-05	4.70E-09	1.00E-10		
2019	Natural Gas	NA	not available	scf	5.44E-05	9.23E-10	9.23E-10	5.47E-05	5.31E-05	9.00E-10	9.00E-10		
2030	Natural Gas	NA	not available	scf	5.44E-05	9.23E-10	9.23E-10	5.47E-05	5.31E-05	9.00E-10	9.00E-10		
2040	Natural Gas	NA	not available	scf	5.44E-05	9.23E-10	9.23E-10	5.47E-05	5.31E-05	9.00E-10	9.00E-10		
2045	Natural Gas	NA	not available	scf	5.44E-05	9.23E-10	9.23E-10	5.47E-05	5.31E-05	9.00E-10	9.00E-10		
2050	Natural Gas	NA	not available	scf	5.44E-05	9.23E-10	9.23E-10	5.47E-05	5.31E-05	9.00E-10	9.00E-10		
2019	Diesel	NA	not available	gal	1.02E-02	1.24E-07	5.52E-08	1.02E-02	7.39E-05	9.00E-10	4.00E-10		
2030	Diesel	NA	not available	gal	1.02E-02	1.24E-07	5.52E-08	1.02E-02	7.39E-05	9.00E-10	4.00E-10		
2040	Diesel	NA	not available	gal	1.02E-02	1.24E-07	5.52E-08	1.02E-02	7.39E-05	9.00E-10	4.00E-10		
2045	Diesel	NA	not available	gal	1.02E-02	1.24E-07	5.52E-08	1.02E-02	7.39E-05	9.00E-10	4.00E-10		
2050	Diesel	NA	not available	gal	1.02E-02	1.24E-07	5.52E-08	1.02E-02	7.39E-05	9.00E-10	4.00E-10		

Natural Gas (backup gen	0.05444	kg CO2/scf	0.00005444	MT CO2/scf
	0.9	g CH4/MMBTU	9.234E-10	MT CH4/scf
	0.9	g N2O/MMBTU	9.234E-10	MT N2O/scf
LPG (backup generator)	0.15463	kg CO2/scf	0.00015463	MT CO2/scf
	0.9	g CH4/MMBTU	9.234E-10	MT CH4/scf
	4	g N2O/MMBTU	4.104E-09	MT N2O/scf
Diesel (backup generator	10.21	kg CO2/gal	0.01021	MT CO2/gal
	0.9	g CH4/MMBTU	1.24286E-07	MT CH4/gal
	0.4	g N2O/MMBTU	5.52381E-08	MT N2O/gal

Water Energy Intensity Factors (kWh/AF)

Extraction and Conveyance

Water Activity	Activity Type	North Coast	San Francisco	Central Coast	South Coast	Sacramento River	San Joaquin River	Tulare Lake	North Lahontan	South Lahontan	Colorado River	Source
Extraction and Conveyance	Ocean Water Desalination	342	342	342	342	342	342	342	342	342	342	1
Extraction and Conveyance	Brackish Desalination	168	342	461	566	181	231	389	167	352	466	1
Extraction and Conveyance	Recycled Water	0	0	0	0	0	0	0	0	0	0	1
Extraction and Conveyance	Groundwater	178	352	471	576	191	241	399	177	362	476	1
Extraction and Conveyance	Local Deliveries	10	10	10	10	10	10	10	10	10	10	1
Extraction and Conveyance	Local Imported	10	43	n/a	10	n/a	n/a	n/a	n/a	n/a	n/a	1
Extraction and Conveyance	Colorado River Aqueduct	n/a	n/a	n/a	2500	n/a	n/a	n/a	n/a	n/a	0	1
Extraction and Conveyance	Central Valley Project and OtherFederal Deliveries	0	273	254	0	15	75	174	n/a	n/a	n/a	1
Extraction and Conveyance	State Water Project	n/a	926	2155	3214	0	287	495	n/a	3495	4468	1

1: Table 7: Navigant CPUC Water/Energy Cost-Effectiveness Analysis 2015

Treatment and Distribution

Water Activity	Activity Type	North Coast	San Francisco	Central Coast	South Coast	Sacramento River	San Joaquin River	Tulare Lake	North Lahontan	South Lahontan	Colorado River	Source
Treatment	Conventional Potable Treatment	443	443	443	443	443	443	443	443	443	443	2
Treatment	Chlorination	3	3	3	3	3	3	3	3	3	3	2
Treatment	Recycled Water - Membrane Treatment	1303	1303	1303	1303	1303	1303	1303	1303	1303	1303	2
Treatment	Recycled Water - Tertiary Treatment + Disinfection	521	521	521	521	521	521	521	521	521	521	2
Treatment	Brackish Desalination	2715	2715	2715	2715	2715	2715	2715	2715	2715	2715	2
Treatment	Ocean Desalination	4546	4546	4546	4546	4546	4546	4546	4546	4546	4546	2
Distribution	Distribution	501	977	501	501	54	54	54	54	501	54	3

2: Table 8: Navigant CPUC Water/Energy Cost-Effectiveness Analysis 2015

3: Table 9: Navigant CPUC Water/Energy Cost-Effectiveness Analysis 2015

Wastewater Equations

ICLEI Wastewater Equation	WW.1.a	WW.1.b	WW.1.(alt)	WW.2.a	WW.2.b	WW.2.(alt)	WW.4	WW.5	WW.6	WW.6 (alt)	WW.7	WW.8	WW.9	WW.11	WW.11(alt)	WW.12	WW.12(alt)	WW.15	WW.152	WW.153
Digester Gas (ft3/day)	x	x		x	x															
Fraction of CH4 in Biogas	x			x																
Population Served			x			x				x	x	x			x		x			
BTU Content of biogas		x			x															
Mass of incinerated biosolids							x	x												
BOD5 Load (kg BOD5/day)									x					x						
FP									x											
N Load (kg N/day)																x				
Methanol Load (MT CH3OH/day)													x							
Sludge Treatment Type													x							
F_ind-com										x	x	x								
EF_effluent																x				
N Uptake																	x			
Pollutant	CH4	CH4	CH4	N2O	N2O	N2O	CH4	N2O	CH4	CH4	N2O	N2O	CO2	CH4	CH4	N2O	N2O	CO2	CH4	N2O
Natural Gas (therms)																		x	x	x
Electricity (kWh)																		x	x	x

WW.1a Stationary Methane Emissions from Combustion of Digester Gas (Fraction CH4 known)
WW.1b Stationary Methane Emissions from Combustion of Digester Gas (Heat Content known)
WW.1(alt) Stationary Methane Emissions from Combustion of Digester Gas (population method)
WW.2a Stationary Nitrous Oxide Emissions from Combustion of Digester Gas (Fraction CH4 known)
WW.2b Stationary Nitrous Oxide Emissions from Combustion of Digester Gas (Heat Content known)
WW.2(alt) Stationary Nitrous Oxide Emissions from Combustion of Digester Gas (population method)
WW.3 Stationary CO2 Emissions from Digester Gas Combustion
WW.4 Stationary Methane Emissions from Combustion of Biosolids and Sludges
WW.5 Stationary Nitrous Oxide Emissions from Combustion of Biosolids and Sludges
WW.6 Process Methane Emissions from Wastewater Treatment Lagoons (BOD5 Load and Fraction BOD5 Removed in Primary Treatment Known)
WW.6(alt) Process Methane Emissions from Wastewater Treatment Lagoons (population method)
WW.7 Process Nitrous Oxide Emissions from Wastewater Treatment Plants with Nitrification or Denitrification
WW.8 Process Nitrous Oxide Emissions from Wastewater Treatment Plants without Nitrification or Denitrification
WW.9 Process Carbon Dioxide Emissions from the Use of Fossil-Fuel-Derived Methanol for Biological Nitrogen Removal
WW.11 Fugitive Methane Emissions from Septic Systems (BOD5 Load Known)
WW.11(alt) Fugitive Methane Emissions from Septic Systems (population method)
WW.12 Fugitive Nitrous Oxide Emissions from Effluent Discharge
WW.12(alt) Fugitive Nitrous Oxide Emissions from Effluent Discharge (population method)
WW.15 Energy-related Emissions Associated with Wastewater Collection and Treatment

OFFROADClas	OFFROADFu	CY	Season	AvgDays	Code	Equipment	Fuel	MaxHP	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Population	Activity	Consumption	ROG Exhaust	CO Exhaust	NOX Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001011	Off-Road Motorcycles Inactive	G2	15	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	3.85E+02	1.42E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001011	Off-Road Motorcycles Inactive	G2	25	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	3.31E+02	1.23E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001011	Off-Road Motorcycles Inactive	G2	50	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.70E+03	9.98E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001011	Off-Road Motorcycles Inactive	G2	120	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.29E+03	4.77E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001021	Snowmobiles Inactive	G2	25	Recreational Equipment	U	N	NHH	P	Sacramento	SV	SAC	4.30E+01	6.77E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001021	Snowmobiles Inactive	G2	50	Recreational Equipment	U	N	NHH	P	Sacramento	SV	SAC	2.03E+02	3.19E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001021	Snowmobiles Inactive	G2	120	Recreational Equipment	U	N	NHH	P	Sacramento	SV	SAC	3.69E+02	5.81E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001031	All Terrain Vehicles (ATVs) Inactive	G2	15	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.82E+02	1.04E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001031	All Terrain Vehicles (ATVs) Inactive	G2	25	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.83E+02	6.79E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001031	All Terrain Vehicles (ATVs) Inactive	G2	50	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.41E+02	8.93E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001011	Off-Road Motorcycles Inactive	G4	15	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	7.50E+02	2.78E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001011	Off-Road Motorcycles Inactive	G4	25	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.21E+03	4.48E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001011	Off-Road Motorcycles Inactive	G4	50	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.26E+03	4.67E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001031	All Terrain Vehicles (ATVs) Inactive	G4	15	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.30E+02	8.51E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001031	All Terrain Vehicles (ATVs) Inactive	G4	25	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	3.20E+03	1.18E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001031	All Terrain Vehicles (ATVs) Inactive	G4	50	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.44E+02	5.34E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001010	Off-Road Motorcycles Active	G2	15	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	9.61E+02	3.56E+03	1.35E+02	1.36E-01	2.12E-01	4.17E-05	4.50E-01	3.65E-04	1.65E-03	1.52E-04	8.43E-03
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001010	Off-Road Motorcycles Active	G2	25	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	8.27E+02	3.06E+03	1.16E+02	1.17E-01	1.82E-01	3.58E-05	3.88E-01	5.86E-04	1.42E-03	1.31E-04	7.26E-03
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001010	Off-Road Motorcycles Active	G2	50	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	6.73E+03	2.49E+04	9.44E+02	9.51E-01	1.49E+00	2.92E-04	3.16E+00	7.55E-03	1.15E-02	1.07E-03	5.91E-02
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001010	Off-Road Motorcycles Active	G2	120	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	3.22E+03	1.19E+04	4.52E+02	4.55E-01	7.11E-01	1.40E-04	1.51E+00	5.32E-03	5.52E-03	5.10E-04	2.83E-02
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001020	Snowmobiles Active	G2	25	Recreational Equipment	U	N	NHH	P	Sacramento	SV	SAC	1.24E+02	1.95E+01	1.47E+01	8.56E-03	2.98E-02	7.05E-04	6.26E-02	1.09E-06	2.79E-04	6.03E-05	5.32E-04
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001020	Snowmobiles Active	G2	50	Recreational Equipment	U	N	NHH	P	Sacramento	SV	SAC	5.82E+02	9.17E+01	1.32E+02	7.67E-02	2.67E-01	6.31E-03	5.61E-01	9.77E-06	2.50E-03	4.00E-04	4.77E-03
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001020	Snowmobiles Active	G2	120	Recreational Equipment	U	N	NHH	P	Sacramento	SV	SAC	1.06E+03	1.67E+02	4.07E+02	2.35E-01	8.21E-01	1.97E-02	1.75E+00	3.04E-05	7.72E-03	9.72E-04	1.46E-02
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001030	All Terrain Vehicles (ATVs) Active	G2	15	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	9.28E+02	3.43E+03	1.30E+02	1.31E-01	2.05E-01	4.02E-05	4.35E-01	4.34E-04	1.59E-03	1.47E-04	8.15E-03
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001030	All Terrain Vehicles (ATVs) Active	G2	25	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	6.04E+02	2.24E+03	8.47E+01	8.53E-02	1.33E-01	2.62E-05	2.83E-01	3.86E-04	1.04E-03	9.57E-05	5.30E-03
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001030	All Terrain Vehicles (ATVs) Active	G2	50	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	7.95E+02	2.94E+03	1.12E+02	1.12E-01	1.76E-01	3.45E-05	3.73E-01	6.67E-04	1.36E-03	1.26E-04	6.98E-03
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001050	Golf Carts	G2	15	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2260001060	Specialty Vehicles Carts	G2	15	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.68E+03	3.05E+02	1.12E+02	4.05E-03	3.07E-01	3.11E-03	5.87E-01	2.42E-05	2.21E-04	4.82E-04	2.52E-04
Construction a	Gasoline	2019	Annual	Mon-Sun	2260002006	Tampers/Rammers	G2	15	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.08E+02	5.39E+01	1.09E+01	6.86E-04	2.94E-02	5.35E-04	5.62E-02	2.31E-06	4.71E-04	8.40E-05	4.27E-05
Construction a	Gasoline	2019	Annual	Mon-Sun	2260002009	Plate Compactors	G2	15	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	9.27E+00	5.24E+00	1.06E+00	6.67E-05	2.85E-03	5.20E-05	5.45E-03	2.25E-07	4.57E-05	8.16E-06	4.15E-06
Industrial	Gasoline	2019	Annual	Mon-Sun	2260003040	Other General Industrial Equipmen	G2	15	Industrial Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.10E+00	1.13E+00	4.44E-01	2.00E-05	1.21E-03	1.52E-05	2.31E-03	9.52E-08	1.08E-06	2.07E-06	1.24E-06
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004010	Lawn Mowers	G2	15	Lawn and Garden Equipment	C	N	NHH	NP	Sacramento	SV	SAC	1.86E+03	1.16E+03	1.32E+02	1.49E-02	2.68E-01	4.00E-03	7.94E-01	3.27E-05	2.50E-03	1.03E-03	9.26E-04
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004010	Lawn Mowers	G2	15	Lawn and Garden Equipment	R	N	NHH	NP	Sacramento	SV	SAC	1.40E+04	5.93E+02	7.53E+01	9.28E-03	1.82E-01	1.97E-03	4.04E-01	1.66E-05	1.13E-03	4.95E-04	5.77E-04
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004020	Chainsaws	G2	2	Lawn and Garden Equipment	C	N	HH	NP	Sacramento	SV	SAC	3.33E+03	2.64E+03	1.57E+02	1.32E-01	2.38E-01	2.08E-03	6.43E-01	2.65E-05	3.75E-04	1.07E-03	8.18E-03
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004020	Chainsaws	G2	2	Lawn and Garden Equipment	R	N	HH	NP	Sacramento	SV	SAC	3.75E+04	5.03E+02	2.43E+01	9.21E-03	4.86E-02	4.09E-04	1.23E-01	5.05E-06	1.22E-04	2.06E-04	5.72E-04
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004020	Chainsaws	G2	15	Lawn and Garden Equipment	C	N	HH	NP	Sacramento	SV	SAC	2.35E+03	1.86E+03	2.68E+02	2.24E-01	4.05E-01	3.55E-03	1.10E+00	4.51E-05	6.38E-04	1.20E-03	1.39E-02
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004020	Chainsaws	G2	15	Lawn and Garden Equipment	R	N	HH	NP	Sacramento	SV	SAC	2.64E+04	3.54E+02	4.08E+01	1.51E-02	8.12E-02	6.93E-04	2.09E-01	8.60E-06	2.21E-04	2.31E-04	9.38E-04
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004021	Chainsaws Preempt	G2	15	Lawn and Garden Equipment	C	P	HH	NP	Sacramento	SV	SAC	2.92E+03	2.31E+03	3.34E+02	2.79E-01	5.05E-01	4.42E-03	1.36E+00	5.62E-05	7.94E-04	1.50E-03	1.73E-02
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004021	Chainsaws Preempt	G2	15	Lawn and Garden Equipment	R	P	HH	NP	Sacramento	SV	SAC	3.28E+04	4.41E+02	5.34E+01	2.15E-02	1.10E-01	8.06E-04	2.60E-01	1.07E-05	2.07E-04	2.78E-04	1.34E-03
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004025	Trimmers/Edgers/Brush Cutters	G2	2	Lawn and Garden Equipment	C	N	HH	NP	Sacramento	SV	SAC	1.09E+04	3.61E+03	1.60E+02	8.64E-02	2.85E-01	2.49E-03	7.69E-01	3.17E-05	4.48E-04	1.36E-03	5.37E-03
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004025	Trimmers/Edgers/Brush Cutters	G2	2	Lawn and Garden Equipment	R	N	HH	NP	Sacramento	SV	SAC	1.21E+05	7.13E+03	3.02E+02	1.36E-01	5.62E-01	4.92E-03	1.52E+00	6.25E-05	8.84E-04	2.68E-03	8.43E-03
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004030	Leaf Blowers/Vacuums	G2	2	Lawn and Garden Equipment	C	N	HH	P	Sacramento	SV	SAC	1.62E+04	8.72E+03	4.65E+02	3.21E-01	7.64E-01	6.69E-03	2.06E+00	8.50E-05	1.20E-03	3.47E-03	2.00E-02
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004030	Leaf Blowers/Vacuums	G2	2	Lawn and Garden Equipment	R	N	HH	P	Sacramento	SV	SAC	4.18E+04	5.50E+02	2.57E+01	9.71E-03	5.16E-02	4.34E-04	1.30E-01	5.36E-06	1.30E-04	2.21E-04	6.03E-04
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004050	Shredders	G2	15	Lawn and Garden Equipment	C	P	NHH	NP	Sacramento	SV	SAC	8.20E+01	3.05E+01	1.34E+01	7.51E-04	3.62E-02	5.86E-04	6.92E-02	2.85E-06	5.80E-04	6.75E-05	4.67E-05
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004050	Shredders	G2	15	Lawn and Garden Equipment	R	P	NHH	NP	Sacramento	SV	SAC	2.92E+03	7.20E+00	3.27E+00	3.43E-04	8.86E-03	1.15E-04	1.63E-02	6.73E-07	1.37E-04	1.44E-05	2.13E-05
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004070	Commercial Turf Equipment	G2	15	Lawn and Garden Equipment	C	N	NHH	NP	Sacramento	SV	SAC	4.35E+01	9.52E+01	3.90E+01	1.76E-03	1.06E-01	1.33E-03	2.03E-01	8.35E-06	9.45E-05	1.78E-04	1.09E-04
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004070	Commercial Turf Equipment	G2	25	Lawn and Garden Equipment	C	N	NHH	NP	Sacramento	SV	SAC	2.14E+01	4.70E+01	4.17E+01	1.82E-03	1.17E-01	1.40E-03	2.11E-01	8.70E-06	9.84E-05	1.32E-04	1.13E-04
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004075	Other Lawn & Garden Equipment	G2	2	Lawn and Garden Equipment	C	N	HH	NP	Sacramento	SV	SAC	1.84E+01	3.45E+00	1.93E-01	9.47E-05	3.51E-04	3.07E-06	9.47E-04	3.90E-08	5.52E-07	1.49E-06	5.89E-06
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004075	Other Lawn & Garden Equipment	G2	2	Lawn and Garden Equipment	R	N	HH	NP	Sacramento	SV	SAC	5.63E+02	6.63E+00	3.58E-01	1.32E-04	7.22E-04	6.07E-06	1.82E-03	7.50E-08	1.81E-06	2.89E-06	8.17E-06
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004075	Other Lawn & Garden Equipment	G2	15	Lawn and Garden Equipment	C	N	HH	NP	Sacramento	SV	SAC	7.99E+00	1.50E+00	4.19E-01	2.06E-04	7.63E-04	6.68E-06	2.06E-03	8.49E-08	1.20E-06	1.53E-06	1.28E-05
Lawn and Gar	Gasoline	2019	Annual	Mon-Sun	2260004075	Other Lawn & Garden Equipment	G2	15	Lawn and Garden Equipment	R	N	HH	NP	Sacramento	SV	SAC	2.45E+02	2.89E+00	7.70E-01	2.75E-04	1.54E-03	1.31E-05	3.96E-03	1.63E-07	4.19E-06	2.96E-06	1.71E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2260006005	Generator Sets	G2	2	Light Commercial Equipment	C	N	NHH	P	Sacramento	SV	SAC	5.88E+01	2.16E+01	1.15E+00	1.84E-04	2.18E-03	4.74E-05	6.97E-03	2.87E-07	2.50E-05	1.49E-05	1.14E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2260006005	Generator Sets	G2	2	Light Commercial Equipment	R	N	NHH	P	Sacramento	SV	SAC	4.62E+01	1.14E+01	6.31E-01	1.22E-04	1.23E-03	2.69E-05	3.68E-03	1.52E-07	1.38E-05	8.17E-06	7.57E-06
Light Commer	Gasoline	2019	Annual	Mon-Sun	2260006005	Generator Sets	G2	15	Light Commercial Equipment	C	N	NHH	P	Sacramento	SV	SAC	5.94E-01	2.18E-01	1.22E-01	5.71E-06	3.31E-04	4.31E-06	6.32E-04	2.60E-08	2.93E-07	4.90E-07	3.55E-07
Light Commer	Gasoline	2019	Annual	Mon-Sun	2260006005	Generator Sets	G2	15	Light Commercial Equipment	R	N	NHH	P	Sacramento	SV	SAC	4.52E-01	1.12E-01	6.39E-02	4.61E-06	1.75E-04	2.38E-06	3.24E-04	1.33E-08	1.95E-07	2.60E-07	2.86E-07
Light Commer	Gasoline	2019	Annual	Mon-Sun	2260006010	Pumps	G2	2	Light Commercial Equipment	C	N	NHH	P	Sacramento	SV	SAC	2.34E+02	1.65E+02	8.53E+00	1.16E-03	1.52E-02	3.25E-04	5.40E-02	2.22E-06	1.90E-04	1.08E-04	7.22E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2260006010	Pumps	G2	2	Light Commercial Equipment	R	N	NHH	P	Sacramento	SV	SAC	1.84E+02	8.73E+01	4.63E+00	6.85E-04	8.62E-03	1.87E-04	2.85E-02	1.17E-06	1.01E-04	5.95E-05	4.26E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2260006010	Pumps	G2	15	Light Commercial Equipment	C	P	NHH	P	Sacramento	SV	SAC	6.31E+01	4.46E+01	2.26E+01	1.45E-03	6.09E-02	1.13E-03	1.16E-01	4.79E-06	9.76E-04	1.15E-04	9.02E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2260006010	Pumps	G2	15	Light Commercial Equipment	R	P	NHH	P	Sacramento	SV	SAC	4.95E+01	2.35E+01	1.19E+01	7.74E-04	3.23E-02	5.96E-04	6.15E-02	2.53E-06	5.16E-04	6.04E-05	4.81E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2260006010	Pumps	G2	25	Light Commercial Equipment	C	P	NHH	P	Sacramento	SV	SAC	7.63E-01	5.39E-01	5.96E-01	3.93E-05	1.66E-03	2.68E-05	2.99E-03	1.23E-07	2.51E-05	1.98E-06	2.44E-06
Light Commer	Gasoline	2019	Annual	Mon-Sun	2260006010	Pumps	G2	25	Light Commercial Equipment	R	P	NHH	P	Sacramento	SV	SAC	5.94E-01	2.82E-01	3.12E-01	2.05E-05	8.69E-04	1.40E-05	1.57E-03	6.45E-08	1.31E-05	1.04E-06	1.28E-06
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001010	Off-Road Motorcycles Active	G4	15	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.87E+03	6.93E+03	1.29E+02	9.31E-03	2.13E-01	4.19E-03	8.78E-01	7.11E-04	4.59E-04	2.36E-03	5.23E-04
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001010	Off-Road Motorcycles Active	G4	25	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	3.02E+03	1.12E+04	2.09E+02	1.50E-02	3.43E-01	6.77E-03	1.42E+00	2.14E-03	7.40E-04	3.81E-03	8.44E-04
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001010	Off-Road Motorcycles Active	G4	50	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	3.15E+03	1.17E+04	2.17E+02	1.57E-02	3.58E-01	7.05E-03	1.48E+00	3.53E-03	7.71E-04	3.97E-03	8.79E-04
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001030	All Terrain Vehicles (ATVs) Active	G4	15	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	7.57E+02	2.80E+03	5.27E+01	3.95E-03	8.82E-02	2.21E-03	3.55E-01	3.54E-04	1.85E-04	1.10E-03	2.22E-04
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001030	All Terrain Vehicles (ATVs) Active	G4	25	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.05E+04	3.90E+04	7.33E+02	5.50E-02	1.23E+00	3.08E-02	4.94E+00	6.74E-03	2.58E-03	1.53E-02	3.09E-03
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001030	All Terrain Vehicles (ATVs) Active	G4	50	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	4.75E+02	1.76E+03	3.31E+01	2.48E-03	5.54E-02	1.39E-03	2.23E-01	3.99E-04	1.16E-04	6.92E-04	1.39E-04
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001040	Minibikes	G4	5	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	3.40E+02	1.29E+02	2.93E+01	1.92E-02	1.23E-01	4.75E-04	1.63E-02	5.21E-06	5.11E-04	1.15E-04	1.08E-03
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001050	Golf Carts	G4	15	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001060	Specialty Vehicles Carts	G4	5	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	5.20E+01	9.45E+00	2.50E+00	1.89E-04	6.64E-03	4.69E-05	1.30E-02	4.48E-07	3.08E-05	9.88E-06	1.07E-05
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001060	Specialty Vehicles Carts	G4	15	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	7.04E+02	1.28E+02	5.00E+01	1.87E-03	1.46E-01	1.37E-03	2.46E-01	7.02E-06	9.26E-05	2.02E-04	1.06E-04
Recreational E	Gasoline	2019	Annual	Mon-Sun	2265001060	Specialty Vehicles Carts	G4	25	Recreational Equipment	U	N	NHH	NP	Sacramento	SV	SAC	3.87E+02	7.04E+01	7.67E+01	2.85E-03	2.31E-01	1.96E-03	3.67E-01	9.31E-06	1.38E-04	1.85E-04	1.61E-04
Construction a	Gasoline	2019	Annual	Mon-Sun	2265002003	Asphalt Pavers	G4	15	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	2.36E+00	2.56E+00	1.48E+00	1.12E-04	4.26E-03	8.36E-05	7.20E-03	2.05E-07	6.03E-05	7.33E-06	6.35E-06
Construction a	Gasoline	2019	Annual	Mon-Sun	2265002003	Asphalt Pavers	G4	25	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	4.03E+00	4.38E+00	6.39E+00	4.96E-04	1.89E-02	3.23E-04	3.01E-02	7.63E-07	2.52E-04	1.94E-05	2.80E-05
Construction a	Gasoline	2019	Annual	Mon-Sun	2265002003	Asphalt Pavers	G4	50	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	2.80E+00	3.01E+00	6.97E+00	1.34E-04	7.47E-03	1.84E-04	5.50E-02	6.68E-07	4.21E-06	1.13E-05	7.60E-06
Construction a	Gasoline	2019	Annual	Mon-Sun	2265002003	Asphalt Pavers	G4	120	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.54E+00	1.66E+00	6.31E+00	7.33E-05	2.36E-03	1.89E-04	5.69E-02	5.50E-07	4.41E-06	7.94E-06	4.14E-06
Construction a	Gasoline	2019	Annual	Mon-Sun	2265002006	Tampers/Rammers	G4	15	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	4.99E+00	2.49E+00	1.20E+00	9.15E-05	3.45E-03	6.81E-05	5.83E-03	1.66E-07	4.89E-05	6.49E-06	5.18E-06
Construction a	Gasoline	2019	Annual	Mon-Sun	2265002009	Plate Compactors	G4	5	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.83E+02	9.04E+01	1.64E+01	2.33E-03	3.50E-02	1.05E-03	9.41E-02	3.25E-06	3.07E-05	1.49E-04	1.32E-04
Construction a	Gasoline	2019	Annual	Mon-Sun	2265002009	Plate Compactors	G4	15	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.94E+02	1.10E+02	4.71E+01	3.57E-03	1.35E-01	2.66E-03	2.28E-01	6.51E-06	1.92E-03	2.68E-04	2.02E-04
Construction a	Gasoline	2019	Annual	Mon-Sun	2265002015	Rollers	G4	5	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	2.04E+01	4.64E+00	1.25E+00	1.53E-04	2.94E-03	6.91E-05	6.81E-03	2.35E-07	2.22E-06	8.73E-06	8.66E-06
Construction a	Gasoline	2019	Annual	Mon-Sun	2265002015	Rollers	G4	15	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	3.30E+01	2.81E+01	1.53E+01	1.15E-03	4.38E-02	8.58E-04	7.41E-02	2.11E-06	6.21E-04	7.76E-05	6.52E-05
Construction a	Gasoline	2019	Annual	Mon-Sun	2265002015	Rollers	G4	25	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	2.23E+01	1.89E+01	2.24E+01	1.73E-03	6.63E-02	1.13E-03	1.06E-01	2.68E-06	8.85E-04	7.48E-05	9.81E-05
Construction a	Gasoline	2019	Annual	Mon-Sun	2265002015	Rollers

agricultural of Gasoline	2019	Annual	Mon-Sun	2265005010	2-Wheel Tractors	G4	25	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	8.15E-01	7.42E-01	7.40E-01	5.71E-05	2.19E-03	3.72E-05	3.49E-03	8.83E-08	2.92E-05	2.67E-06	3.23E-06
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005015	Agricultural Tractors	G4	120	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	9.75E+00	1.47E+01	7.25E+01	1.17E-03	3.62E-02	2.86E-03	6.38E-01	6.17E-06	4.95E-05	9.51E-05	6.63E-05
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005015	Agricultural Tractors	G4	175	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	1.34E+00	2.02E+00	1.43E+01	1.47E-04	4.87E-03	6.73E-04	1.30E-01	1.29E-06	1.03E-05	1.72E-05	8.31E-06
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005020	Combines	G4	120	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	2.44E+00	8.37E-01	5.82E+00	2.50E-05	1.02E-03	6.11E-05	5.45E-02	5.27E-07	4.22E-06	3.59E-06	1.42E-06
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005020	Combines	G4	175	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	1.36E+00	4.65E-01	5.11E+00	1.58E-05	1.50E-03	5.84E-05	4.69E-02	4.66E-07	3.73E-06	2.66E-06	8.93E-07
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005020	Combines	G4	250	Agricultural Equipment	U	N	NHH	NP	Sacramento SV	SAC	2.50E-01	8.59E-02	1.09E+00	2.88E-06	3.28E-04	3.04E-05	9.95E-03	1.02E-07	8.16E-07	8.76E-07	1.63E-07
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005025	Balers	G4	50	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	3.56E+01	6.64E+00	1.29E+01	2.00E-04	8.74E-03	3.54E-04	1.10E-01	1.34E-06	8.45E-06	2.27E-05	1.13E-05
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005025	Balers	G4	120	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	1.82E+01	3.40E+00	1.10E+01	9.82E-05	2.48E-03	3.59E-04	1.02E-01	9.86E-07	7.91E-06	1.49E-05	5.55E-06
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005030	Agricultural Mowers	G4	15	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	2.71E+01	1.34E+01	5.01E+00	3.77E-04	1.44E-02	2.80E-04	2.43E-02	6.94E-07	2.04E-04	3.02E-05	2.13E-05
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005030	Agricultural Mowers	G4	25	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	2.22E+01	1.09E+01	9.51E+00	7.32E-04	2.81E-02	4.77E-04	4.48E-02	1.14E-06	3.75E-04	3.65E-05	4.14E-05
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005035	Sprayers	G4	5	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	1.03E+02	2.76E+01	4.64E+00	6.26E-04	1.03E-02	2.83E-04	2.62E-02	9.04E-07	8.53E-06	4.25E-05	3.54E-05
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005035	Sprayers	G4	15	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	3.20E+01	8.60E+00	2.99E+00	2.43E-04	8.72E-03	1.56E-04	1.43E-02	4.06E-07	1.19E-04	1.80E-05	1.37E-05
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005035	Sprayers	G4	25	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	8.28E+01	2.23E+01	1.92E+01	1.55E-03	5.74E-02	9.02E-04	8.96E-02	2.27E-06	7.48E-04	7.13E-05	8.80E-05
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005035	Sprayers	G4	50	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	6.70E+00	1.47E+00	2.46E+00	3.87E-05	1.71E-03	6.79E-05	2.10E-02	2.55E-07	1.60E-06	4.67E-06	2.19E-06
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005035	Sprayers	G4	120	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	1.13E+01	2.48E+00	7.78E+00	7.08E-05	1.81E-03	2.55E-04	7.19E-02	6.95E-07	5.57E-06	1.08E-05	4.00E-06
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005035	Sprayers	G4	175	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	2.55E+00	5.59E-01	3.54E+00	2.00E-05	1.04E-03	1.30E-04	3.25E-02	3.23E-07	2.59E-06	3.75E-06	1.13E-06
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005040	Tillers	G4	15	Agricultural Equipment	U	N	NHH	NP	Sacramento SV	SAC	3.50E+03	6.82E+02	3.32E+02	2.01E-02	9.69E-01	1.29E-02	1.60E+00	4.57E-05	8.09E-04	1.45E-03	1.14E-03
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005045	Swathers	G4	120	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	3.65E+01	9.51E+00	4.02E+01	3.76E-04	9.70E-03	1.33E-03	3.72E-01	3.59E-06	2.88E-05	4.87E-05	2.12E-05
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005045	Swathers	G4	175	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	2.80E+01	7.29E+00	4.43E+01	2.57E-04	1.31E-02	1.64E-03	4.06E-01	4.03E-06	3.23E-05	4.81E-05	1.45E-05
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005050	Hydro Power Units	G4	5	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	6.20E+00	2.98E+00	6.89E-01	9.66E-05	1.49E-03	4.36E-05	3.94E-03	1.36E-07	1.29E-06	5.56E-06	5.46E-06
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005050	Hydro Power Units	G4	15	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	1.24E+01	1.57E+01	6.89E+00	5.33E-04	1.98E-02	3.97E-04	3.34E-02	9.52E-07	2.80E-04	3.93E-05	3.02E-05
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005050	Hydro Power Units	G4	25	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	4.72E+00	6.00E+00	5.75E+00	4.56E-04	1.70E-02	2.97E-04	2.71E-02	6.86E-07	2.27E-04	2.15E-05	2.58E-05
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005050	Hydro Power Units	G4	50	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	3.34E-01	4.12E-01	9.08E-01	1.01E-05	7.33E-04	1.44E-05	7.58E-03	9.21E-08	5.80E-07	1.22E-06	5.73E-07
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005050	Hydro Power Units	G4	120	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	4.17E-02	5.15E-02	1.74E-01	7.67E-07	3.43E-05	1.76E-06	1.63E-03	1.57E-08	1.26E-07	1.51E-07	4.34E-08
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005055	Other Agricultural Equipment	G4	5	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	4.32E+00	1.72E+00	3.18E-01	4.26E-05	7.09E-04	1.92E-05	1.79E-03	6.18E-08	5.84E-07	2.78E-06	2.41E-06
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005055	Other Agricultural Equipment	G4	15	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	3.78E+00	1.50E+00	8.06E-01	6.00E-05	2.31E-03	4.46E-05	3.91E-03	1.12E-07	3.28E-05	4.09E-06	3.40E-06
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005055	Other Agricultural Equipment	G4	25	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	9.63E-01	3.83E-01	5.29E-01	4.04E-05	1.57E-03	2.63E-05	2.49E-03	6.32E-08	2.09E-05	1.63E-06	2.28E-06
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005055	Other Agricultural Equipment	G4	50	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	1.11E+00	3.76E-01	6.12E-01	8.60E-06	4.37E-04	1.38E-05	5.18E-03	6.30E-08	3.97E-07	1.07E-06	4.86E-07
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005055	Other Agricultural Equipment	G4	120	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	6.41E+00	2.18E+00	7.40E+00	5.62E-05	1.67E-03	1.72E-04	6.86E-02	6.63E-07	5.31E-06	8.31E-06	3.18E-06
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005055	Other Agricultural Equipment	G4	175	Agricultural Equipment	U	P	NHH	NP	Sacramento SV	SAC	7.30E-01	2.49E-01	1.68E+00	8.20E-06	5.00E-04	4.35E-05	1.54E-02	1.53E-07	1.23E-06	1.44E-06	4.64E-07
agricultural of Gasoline	2019	Annual	Mon-Sun	2265005055	Other Agricultural Equipment	G4	250	Agricultural Equipment	U	N	NHH	NP	Sacramento SV	SAC	2.71E-01	9.23E-02	1.10E+00	4.50E-06	3.36E-04	4.10E-05	1.01E-02	1.03E-07	8.26E-07	1.01E-06	2.54E-07
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006005	Generator Sets	G4	5	Light Commercial Equipment	C	N	NHH	P	Sacramento SV	SAC	7.72E+02	2.84E+02	6.29E+01	9.95E-03	1.29E-01	2.62E-03	3.66E-01	1.26E-05	1.29E-03	4.11E-04	5.63E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006005	Generator Sets	G4	5	Light Commercial Equipment	R	N	NHH	P	Sacramento SV	SAC	6.07E+02	1.50E+02	3.41E+01	5.69E-03	7.25E-02	1.49E-03	1.93E-01	6.68E-06	6.84E-04	2.25E-04	3.22E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006005	Generator Sets	G4	15	Light Commercial Equipment	C	N	NHH	P	Sacramento SV	SAC	2.12E+03	7.80E+02	4.63E+02	2.68E-02	1.34E+00	1.91E-02	2.26E+00	6.45E-05	1.24E-03	1.91E-03	1.52E-03
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006005	Generator Sets	G4	15	Light Commercial Equipment	R	N	NHH	P	Sacramento SV	SAC	1.67E+03	4.12E+02	2.50E+02	1.81E-02	7.33E-01	1.09E-02	1.19E+00	3.41E-05	6.65E-04	1.05E-03	1.02E-03
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006005	Generator Sets	G4	25	Light Commercial Equipment	C	N	NHH	P	Sacramento SV	SAC	1.14E+03	4.19E+02	5.40E+02	2.99E-02	1.61E+00	2.23E-02	2.56E+00	6.50E-05	1.41E-03	1.56E-03	1.69E-03
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006005	Generator Sets	G4	25	Light Commercial Equipment	R	N	NHH	P	Sacramento SV	SAC	8.96E+02	2.22E+02	2.90E+02	1.98E-02	8.70E-01	1.22E-02	1.36E+00	3.43E-05	7.54E-04	8.36E-04	1.12E-03
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006005	Generator Sets	G4	50	Light Commercial Equipment	U	N	NHH	P	Sacramento SV	SAC	3.79E+02	1.19E+02	2.70E+02	4.34E-03	2.18E-01	8.38E-03	2.24E+00	2.73E-05	1.72E-04	4.89E-04	2.46E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006005	Generator Sets	G4	120	Light Commercial Equipment	U	N	NHH	P	Sacramento SV	SAC	7.33E+01	2.31E+01	1.21E+02	1.12E-03	3.35E-02	5.20E-03	1.11E+00	1.07E-05	8.61E-05	1.73E-04	6.35E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006005	Generator Sets	G4	175	Light Commercial Equipment	U	N	NHH	P	Sacramento SV	SAC	6.92E+00	2.18E+00	1.96E+01	1.10E-04	5.85E-03	9.17E-04	1.80E-01	1.78E-06	1.43E-05	2.27E-05	6.24E-06
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006010	Pumps	G4	5	Light Commercial Equipment	C	P	NHH	P	Sacramento SV	SAC	2.74E+02	1.94E+02	3.15E+01	5.06E-03	6.04E-02	2.28E-03	1.90E-01	6.55E-06	6.18E-05	3.22E-04	2.86E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006010	Pumps	G4	5	Light Commercial Equipment	R	P	NHH	P	Sacramento SV	SAC	2.15E+02	1.02E+02	1.72E+01	2.92E-03	3.47E-02	1.19E-03	1.00E-01	3.46E-06	7.42E-05	1.69E-04	1.65E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006010	Pumps	G4	15	Light Commercial Equipment	C	P	NHH	P	Sacramento SV	SAC	2.97E+02	2.10E+02	1.13E+02	8.73E-03	3.24E-01	6.50E-03	5.48E-01	1.56E-05	4.60E-03	5.84E-04	4.94E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006010	Pumps	G4	15	Light Commercial Equipment	R	P	NHH	P	Sacramento SV	SAC	2.33E+02	1.11E+02	5.99E+01	4.70E-03	1.72E-01	3.44E-03	2.90E-01	8.26E-06	2.43E-03	3.09E-04	2.66E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006010	Pumps	G4	25	Light Commercial Equipment	C	P	NHH	P	Sacramento SV	SAC	7.61E+01	5.37E+01	6.34E+01	4.95E-03	1.87E-01	3.23E-03	2.98E-01	7.56E-06	2.50E-03	2.13E-04	2.80E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006010	Pumps	G4	25	Light Commercial Equipment	R	P	NHH	P	Sacramento SV	SAC	5.98E+01	2.84E+01	3.35E+01	2.63E-03	9.89E-02	1.71E-03	1.58E-01	3.99E-06	1.32E-03	1.13E-04	1.49E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006010	Pumps	G4	50	Light Commercial Equipment	U	P	NHH	P	Sacramento SV	SAC	3.03E+01	1.83E+01	4.17E+01	6.84E-04	3.89E-02	1.01E-03	3.39E-01	4.12E-06	2.59E-05	6.53E-05	3.87E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006010	Pumps	G4	120	Light Commercial Equipment	U	P	NHH	P	Sacramento SV	SAC	3.84E+01	2.32E+01	1.40E+02	1.29E-03	4.34E-02	3.69E-03	1.27E+00	1.23E-05	9.87E-05	1.33E-04	7.32E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006010	Pumps	G4	175	Light Commercial Equipment	U	P	NHH	P	Sacramento SV	SAC	1.16E+00	7.01E-01	6.33E+00	4.01E-05	1.96E-03	1.88E-04	5.78E-02	5.74E-07	4.61E-06	5.25E-06	2.27E-06
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006015	Air Compressors	G4	5	Light Commercial Equipment	C	P	NHH	P	Sacramento SV	SAC	9.90E+01	1.53E+02	3.37E+01	5.43E-03	6.44E-02	2.45E-03	2.03E-01	7.01E-06	6.62E-05	3.00E-04	3.07E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006015	Air Compressors	G4	5	Light Commercial Equipment	R	P	NHH	P	Sacramento SV	SAC	7.78E+01	8.09E+01	1.78E+01	2.87E-03	3.40E-02	1.30E-03	1.07E-01	3.70E-06	3.50E-05	1.59E-04	1.62E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006015	Air Compressors	G4	15	Light Commercial Equipment	C	P	NHH	P	Sacramento SV	SAC	5.01E+01	7.75E+01	2.97E+01	2.33E-03	8.52E-02	1.73E-03	1.44E-01	4.10E-06	1.21E-03	1.81E-04	1.32E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006015	Air Compressors	G4	15	Light Commercial Equipment	R	P	NHH	P	Sacramento SV	SAC	3.94E+01	4.10E+01	1.57E+01	1.21E-03	4.50E-02	8.97E-04	7.60E-02	2.17E-06	6.37E-04	9.48E-05	6.82E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006015	Air Compressors	G4	25	Light Commercial Equipment	C	P	NHH	P	Sacramento SV	SAC	6.76E+00	1.05E+01	1.00E+01	8.06E-04	2.96E-02	5.25E-04	4.71E-02	1.19E-06	3.95E-04	3.77E-05	4.55E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006015	Air Compressors	G4	25	Light Commercial Equipment	R	P	NHH	P	Sacramento SV	SAC	5.31E+00	5.53E+00	5.30E+00	4.20E-04	1.56E-02	2.73E-04	2.49E-02	6.32E-07	2.09E-04	1.98E-05	2.37E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006015	Air Compressors	G4	50	Light Commercial Equipment	U	P	NHH	P	Sacramento SV	SAC	1.15E+01	1.53E+01	3.51E+01	9.13E-04	4.88E-02	1.21E-03	2.58E-01	3.14E-06	1.98E-05	6.59E-05	5.16E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006015	Air Compressors	G4	120	Light Commercial Equipment	U	P	NHH	P	Sacramento SV	SAC	3.74E+01	4.95E+01	1.89E+02	3.30E-03	1.00E-01	8.21E-03	1.66E+00	1.60E-05	1.28E-04	2.98E-04	1.87E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006015	Air Compressors	G4	175	Light Commercial Equipment	U	P	NHH	P	Sacramento SV	SAC	2.52E+00	3.33E+00	2.29E+01	2.54E-04	7.84E-03	1.18E-03	2.08E-01	2.06E-06	1.65E-05	2.98E-05	1.44E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006025	Welders	G4	15	Light Commercial Equipment	C	P	NHH	P	Sacramento SV	SAC	1.94E+02	1.10E+02	6.07E+01	4.88E-03	1.75E-01	3.47E-03	2.93E-01	8.34E-06	2.45E-03	3.09E-04	2.76E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006025	Welders	G4	25	Light Commercial Equipment	C	P	NHH	P	Sacramento SV	SAC	7.00E+02	3.98E+02	3.47E+02	2.76E-02	1.03E+00	1.80E-02	1.63E+00	4.14E-05	1.37E-02	1.36E-03	1.56E-03
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006025	Welders	G4	50	Light Commercial Equipment	U	P	NHH	P	Sacramento SV	SAC	6.03E+01	3.43E+01	8.43E+01	1.69E-03	8.09E-02	2.63E-03	6.80E-01	8.26E-06	5.21E-05	1.44E-04	9.56E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006025	Welders	G4	120	Light Commercial Equipment	U	P	NHH	P	Sacramento SV	SAC	6.15E+01	3.50E+01	1.18E+02	1.47E-03	4.04E-02	4.58E-03	1.07E+00	1.03E-05	8.27E-05	1.78E-04	8.33E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006025	Welders	G4	175	Light Commercial Equipment	U	P	NHH	P	Sacramento SV	SAC	4.24E+00	2.41E+00	1.45E+01	1.14E-04	4.50E-03	6.49E-04	1.33E-01	1.32E-06	1.06E-05	1.80E-05	6.44E-06
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006030	Pressure Washers	G4	5	Light Commercial Equipment	C	N	NHH	P	Sacramento SV	SAC	2.07E+02	7.63E+01	2.55E+01	3.64E-03	4.98E-02	9.87E-04	1.54E-01	5.30E-06	5.38E-04	1.33E-04	2.06E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006030	Pressure Washers	G4	5	Light Commercial Equipment	R	N	NHH	P	Sacramento SV	SAC	1.63E+02	4.03E+01	1.41E+01	2.30E-03	2.95E-02	6.05E-04	8.11E-02	2.80E-06	2.87E-04	7.55E-05	1.30E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006030	Pressure Washers	G4	15	Light Commercial Equipment	C	N	NHH	P	Sacramento SV	SAC	1.85E+02	6.81E+01	3.93E+01	2.27E-03	1.14E-01	1.62E-03	1.92E-01	5.47E-06	1.05E-04	1.65E-04	1.29E-04
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006030	Pressure Washers	G4	15	Light Commercial Equipment	R	N	NHH	P	Sacramento SV	SAC	1.45E+02	3.60E+01	2.12E+01	1.54E-03	6.21E-02	9.23E-04	1.01E-01	2.89E-06	5.64E-05	9.03E-05	8.68E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006030	Pressure Washers	G4	25	Light Commercial Equipment	C	N	NHH	P	Sacramento SV	SAC	3.48E+01	1.28E+01	1.95E+01	1.05E-03	5.81E-02	7.93E-04	9.26E-02	2.35E-06	5.05E-05	5.15E-05	5.92E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006030	Pressure Washers	G4	25	Light Commercial Equipment	R	N	NHH	P	Sacramento SV	SAC	2.73E+01	6.75E+00	1.04E+01	6.85E-04	3.13E-02	4.37E-04	4.89E-02	1.24E-06	2.72E-05	2.78E-05	3.87E-05
Light Commer	Gasoline	2019	Annual	Mon-Sun	2265006030	Pressure Washers	G4	50	Light Commercial Equipment	U	P	NHH	P	Sacramento SV	SAC	3.39E+00	1.07E+00	2.70E+00	3.90E-05	2.03E-03	6.28E-05	2.27E-02	2.76E-07	1.74E-06	3.92E-06	2.21E-06
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008010	Cargo Tractor	G4	120	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento SV	SAC	2.98E+01	1.10E+02	5.72E+02	6.10E-03	4.20E-01	2.34E-02	4.84E+00	3.99E-05	3.75E-04	8.36E-04	3.43E-04
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008015	A/C Tug Narrow Body	G4	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento SV	SAC	2.85E+00	5.68E+00	5.41E+01	4.50E-04	1.92E-02	2.60E-03	4.90E-01	4.87E-06	3.91E-05	6.29E-05	2.54E-05
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008020	A/C Tug Wide Body	G4	500	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento SV	SAC	9.38E-01	1.33E+00	4.68E+01	1.56E-04	1.50E-02	1.35E-03	4.28E-01	4.37E-06	3.51E-05	2.38E-05	8.81E-06
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008025	Air Conditioner	G4	175	Airport Ground Support Equipment	U	N	NHH	P	Sacramento SV	SAC	8.98E-02	5.43E-03	4.78E-02	1.84E-07	1.38E-05	1.79E-06	4.39E-04	4.36E-09	3.50E-08	5.06E-08	1.04E-08
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008030	Air Start Unit	G4	175	Airport Ground Support Equipment	U	N	NHH	P	Sacramento SV	SAC	2.07E+00	4.28E-01	4.53E+00	1.90E-05	1.33E-03	1.73E-04	4.15E-02	4.13E-07	3.31E-06	4.45E-06	1.08E-06
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008035	Baggage Tug	G4	120	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento SV	SAC	3.83E+01	9.22E+01	4.78E+02	2.63E-03	1.77E-01	1.42E-02	4.33E+00	4.18E-05	3.35E-04	6.02E-04	1.48E-04
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008040	Belt Loader	G4	120	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento SV	SAC	1.81E+01	4.03E+01	1.14E+02	6.39E-04	4.38E-02	3.42E-03	1.03E+00	9.97E-06	8.00E-05	1.92E-04	3.61E-05
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008045	Bobtail	G4	120	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento SV	SAC	6.16E+00	1.48E+01	7.69E+01	4.22E-04	2.85E-02	2.28E-03	6.96E-01	6.72E-06	5.39E-05	9.68E-05	2.38E-05
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008050	Cargo Loader	G4	120	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento SV	SAC	4.83E+00	9.53E+00	3.15E+01	1.78E-04	1.21E-02	9.47E-04	2.85E-01	2.75E-06	2.21E-05	4.93E-05	1.00E-05
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008055	Cart	G4	15	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento SV	SAC	1.65E+00	6.77E-01	3.92E-01	1.99E-05	1.14E-03	1.43E-05	1.92E-03	5.49E-08	9.69E-07	1.54E-06	1.12E-06
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008060	Deicer	G4	120	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento SV	SAC	2.34E+00	1.41E-01	1.14E+00	7.00E-06	2.05E-04	3.96E-05	1.07E-02	1.03E-07	8.25E-07	1.21E-06	3.96E-07
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008065	Forklift	G4	50	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento SV	SAC	4.56E+00	9.10E+00	1.48E+01	1.84E-04	1.56E-02	3.75E-04	1.18E-01	1.43E-06	9.02E-06	2.93E-05	1.04E-05
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008070	Fuel Truck	G4	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento SV	SAC	2.82E+00	1.70E-01	5.01E-01	1.96E-06	1.44E-04	1.91E-05	4.60E-03	4.57E-08	3.66E-07	8.90E-07	1.11E-07
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008075	Ground Power Unit	G4	175	Airport Ground Support Equipment	U	N	NHH	P	Sacramento SV	SAC	3.59E+00	7.85E+00	8.02E+01	2.73E-04	2.53E-02	2.27E-03	7.33E-01	7.28E-06	5.84E-05	7.19E-05	1.54E-05
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008080	Lav Cart	G4	15	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento SV	SAC	1.42E-01	5.86E-02	3.40E-02	1.72E-06	9.84E-05	1.24E-06	1.66E-04	4.75E-09	8.38E-08	1.33E-07	9.73E-08
Airport Groun	Gasoline	2019	Annual	Mon-Sun	2265008085	Lav Truck	G4	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento SV	SAC	4.39E+00	1.46E+01	4.35E+01	2.49E-04	1.57E-02	1.42E-03	3.94E-01

Construction a	Diesel	2019	Annual	Mon-Sun	2270002045	Cranes	D	9999	Construction and Mining Equipment	U	N	NHH	P	Sacramento	SV	SAC	3.25E+00	1.14E+01	5.01E+02	4.01E-03	1.30E-02	4.22E-02	5.53E+00	5.56E-05	1.12E-03	0.00E+00	3.62E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002048	Graders	D	50	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	7.62E-01	1.98E+00	2.51E+00	6.12E-05	2.78E-04	2.20E-04	2.72E-02	3.52E-07	1.39E-05	0.00E+00	5.52E-06
Construction a	Diesel	2019	Annual	Mon-Sun	2270002048	Graders	D	120	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	5.08E+01	1.32E+02	4.52E+02	5.27E-03	3.37E-02	3.26E-02	4.94E+00	5.80E-05	2.34E-03	0.00E+00	4.75E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002048	Graders	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.74E+02	4.51E+02	2.54E+03	2.23E-02	1.64E-01	1.42E-01	2.79E+01	3.14E-04	7.76E-03	0.00E+00	2.01E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002048	Graders	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.08E+02	2.80E+02	2.18E+03	1.48E-02	5.21E-02	1.05E-01	2.41E+01	2.71E-04	3.60E-03	0.00E+00	1.33E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002048	Graders	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	3.05E+00	7.91E+00	8.22E+01	5.34E-04	2.00E-03	3.54E-03	9.07E-01	8.90E-06	1.27E-04	0.00E+00	4.82E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002048	Graders	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	3.98E-02	1.03E-01	2.27E+00	1.48E-05	5.54E-05	1.01E-04	2.51E-02	2.52E-07	3.58E-06	0.00E+00	1.34E-06
Construction a	Diesel	2019	Annual	Mon-Sun	2270002051	Off-Highway Trucks	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	3.54E+00	1.92E+01	1.09E+02	8.67E-04	7.23E-03	5.00E-03	1.20E+00	1.35E-05	2.60E-04	0.00E+00	7.82E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002051	Off-Highway Trucks	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.61E+01	1.42E+02	1.07E+03	6.95E-03	2.51E-02	4.11E-02	1.18E+01	1.33E-04	1.40E-03	0.00E+00	6.27E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002051	Off-Highway Trucks	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	3.68E+01	2.00E+02	2.46E+03	1.56E-02	5.49E-02	8.51E-02	2.72E+01	2.67E-04	3.09E-03	0.00E+00	1.41E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002051	Off-Highway Trucks	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	8.35E+00	4.54E+01	9.06E+02	5.77E-03	2.02E-02	3.20E-02	1.00E+01	1.01E-04	1.15E-03	0.00E+00	5.21E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002051	Off-Highway Trucks	D	1000	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	3.92E+00	2.13E+01	6.01E+02	4.06E-03	1.39E-02	4.36E-02	6.63E+00	6.67E-05	1.06E-03	0.00E+00	3.67E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002054	Crushing/Proc. Equipment	D	50	Construction and Mining Equipment	U	P	NHH	P	Sacramento	SV	SAC	8.71E+00	2.28E+01	4.62E+01	9.40E-04	4.69E-03	3.96E-03	5.01E-01	6.48E-06	2.38E-04	0.00E+00	8.48E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002054	Crushing/Proc. Equipment	D	120	Construction and Mining Equipment	U	P	NHH	P	Sacramento	SV	SAC	2.45E+01	6.43E+01	2.44E+02	2.44E-03	1.76E-02	1.66E-02	2.67E+00	3.13E-05	1.13E-03	0.00E+00	2.20E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002054	Crushing/Proc. Equipment	D	175	Construction and Mining Equipment	U	P	NHH	P	Sacramento	SV	SAC	1.04E+01	2.72E+01	2.07E+02	1.58E-03	1.29E-02	1.08E-02	2.27E+00	2.56E-05	5.67E-04	0.00E+00	1.42E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002054	Crushing/Proc. Equipment	D	250	Construction and Mining Equipment	U	N	NHH	P	Sacramento	SV	SAC	1.03E+00	2.71E+00	2.99E+01	1.77E-04	6.60E-04	1.34E-03	3.31E-01	3.72E-06	4.31E-05	0.00E+00	1.60E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002054	Crushing/Proc. Equipment	D	500	Construction and Mining Equipment	U	N	NHH	P	Sacramento	SV	SAC	5.82E+00	1.52E+01	2.58E+02	1.48E-03	5.44E-03	1.02E-02	2.85E+00	2.79E-05	3.56E-04	0.00E+00	1.33E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002054	Crushing/Proc. Equipment	D	750	Construction and Mining Equipment	U	N	NHH	P	Sacramento	SV	SAC	6.64E-02	1.74E-01	4.63E+00	2.65E-05	9.77E-05	1.88E-04	5.11E-02	5.14E-07	6.40E-06	0.00E+00	2.39E-06
Construction a	Diesel	2019	Annual	Mon-Sun	2270002054	Crushing/Proc. Equipment	D	9999	Construction and Mining Equipment	U	N	NHH	P	Sacramento	SV	SAC	6.64E-02	1.74E-01	1.03E+01	6.90E-05	2.35E-04	7.85E-04	1.14E-01	1.14E-06	1.96E-05	0.00E+00	6.23E-06
Construction a	Diesel	2019	Annual	Mon-Sun	2270002057	Rough Terrain Forklifts	D	50	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	6.04E+00	1.87E+01	2.91E+01	5.40E-04	3.01E-03	2.47E-03	3.17E-01	4.09E-06	1.33E-04	0.00E+00	4.87E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002057	Rough Terrain Forklifts	D	120	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	2.89E+02	8.97E+02	2.55E+03	2.41E-02	1.86E-01	1.62E-01	2.80E+01	3.28E-04	1.03E-02	0.00E+00	2.18E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002057	Rough Terrain Forklifts	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	3.71E+01	1.15E+02	6.53E+02	4.84E-03	4.15E-02	3.07E-02	7.17E+00	8.06E-05	1.61E-03	0.00E+00	4.37E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002057	Rough Terrain Forklifts	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.07E+00	6.41E+00	4.95E+01	2.98E-04	1.11E-03	1.98E-03	5.47E-01	6.15E-06	6.67E-05	0.00E+00	2.69E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002057	Rough Terrain Forklifts	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.36E+00	4.22E+00	4.89E+01	2.88E-04	1.05E-03	1.75E-03	5.40E-01	5.30E-06	6.35E-05	0.00E+00	2.60E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002060	Rubber Tired Loaders	D	25	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	7.62E-01	2.00E+00	1.54E+00	2.04E-05	6.96E-05	1.29E-04	1.69E-02	2.15E-07	4.81E-06	0.00E+00	1.84E-06
Construction a	Diesel	2019	Annual	Mon-Sun	2270002060	Rubber Tired Loaders	D	50	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.48E+01	3.94E+01	5.66E+01	1.33E-03	6.18E-03	4.93E-03	6.13E-01	7.93E-06	3.06E-04	0.00E+00	1.20E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002060	Rubber Tired Loaders	D	120	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	4.02E+02	1.07E+03	2.88E+03	3.27E-02	2.14E-01	2.04E-01	3.15E+01	3.70E-04	1.46E-02	0.00E+00	2.95E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002060	Rubber Tired Loaders	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	2.27E+02	6.04E+02	2.92E+03	2.50E-02	1.88E-01	1.60E-01	3.21E+01	3.61E-04	8.70E-03	0.00E+00	2.25E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002060	Rubber Tired Loaders	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.26E+02	6.01E+02	4.05E+03	2.69E-02	9.58E-02	1.92E-01	4.47E+01	5.03E-04	6.55E-03	0.00E+00	2.43E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002060	Rubber Tired Loaders	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	9.39E+01	2.50E+02	2.68E+03	1.71E-02	6.40E-02	1.13E-01	2.96E+01	2.91E-04	4.07E-03	0.00E+00	1.54E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002060	Rubber Tired Loaders	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.61E+00	4.28E+00	9.40E+01	6.03E-04	2.24E-03	4.07E-03	1.04E+00	1.04E-05	1.45E-04	0.00E+00	5.44E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002060	Rubber Tired Loaders	D	1000	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.73E-01	4.59E-01	1.23E+01	8.46E-05	3.12E-04	9.67E-04	1.36E-01	1.37E-06	2.48E-05	0.00E+00	7.64E-06
Construction a	Diesel	2019	Annual	Mon-Sun	2270002063	Rubber Tired Dozers	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	5.44E-01	2.41E+00	1.43E+01	1.92E-04	9.84E-04	1.29E-03	1.56E-01	1.76E-06	7.29E-05	0.00E+00	1.74E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002063	Rubber Tired Dozers	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.33E+01	5.92E+01	4.93E+02	5.30E-03	1.61E-02	4.11E-02	5.42E+00	6.10E-05	1.65E-03	0.00E+00	4.78E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002063	Rubber Tired Dozers	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.05E+01	9.10E+01	1.10E+03	1.09E-02	4.44E-02	8.26E-02	1.20E+01	1.18E-04	3.31E-03	0.00E+00	9.87E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002063	Rubber Tired Dozers	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.77E+00	7.84E+00	1.42E+02	1.42E-03	5.75E-03	1.09E-02	1.56E+00	1.57E-05	4.33E-04	0.00E+00	1.28E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002063	Rubber Tired Dozers	D	1000	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.19E-01	5.30E-01	1.43E+01	1.51E-04	6.28E-04	1.52E-03	1.57E-01	1.58E-06	4.73E-05	0.00E+00	1.36E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002066	Tractors/Loaders/Backhoes	D	25	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.53E+01	3.96E+01	2.86E+01	3.79E-04	1.29E-03	2.40E-03	3.14E-01	3.99E-06	9.09E-05	0.00E+00	3.42E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002066	Tractors/Loaders/Backhoes	D	50	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	9.17E+01	2.41E+02	3.36E+02	5.41E-03	3.37E-02	2.72E-02	3.66E+00	4.73E-05	1.24E-03	0.00E+00	4.88E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002066	Tractors/Loaders/Backhoes	D	120	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.23E+03	3.23E+03	7.62E+03	6.42E-02	5.50E-01	4.33E-01	8.34E+01	9.79E-04	2.49E-02	0.00E+00	5.79E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002066	Tractors/Loaders/Backhoes	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	9.15E+01	2.41E+02	1.11E+03	7.43E-03	7.03E-02	4.46E-02	1.22E+01	1.37E-04	2.25E-03	0.00E+00	6.70E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002066	Tractors/Loaders/Backhoes	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.96E+01	7.79E+01	6.05E+02	3.35E-03	1.35E-02	2.00E-02	6.69E+00	7.52E-05	6.78E-04	0.00E+00	3.02E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002066	Tractors/Loaders/Backhoes	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	4.78E+01	1.26E+02	1.96E+03	1.06E-02	4.21E-02	5.87E-02	2.17E+01	2.44E-04	2.11E-03	0.00E+00	9.60E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002066	Tractors/Loaders/Backhoes	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	8.03E+00	2.12E+01	4.95E+02	2.69E-03	1.06E-02	1.51E-02	5.47E+00	6.15E-05	5.38E-04	0.00E+00	2.43E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002069	Crawler Tractors	D	50	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	7.62E-01	2.17E+00	2.50E+00	8.20E-05	3.06E-04	2.35E-04	2.70E-02	3.48E-07	1.80E-05	0.00E+00	7.40E-06
Construction a	Diesel	2019	Annual	Mon-Sun	2270002069	Crawler Tractors	D	120	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	4.32E+02	1.23E+03	3.70E+03	5.47E-02	2.86E-01	3.22E-01	4.05E+01	4.75E-04	2.52E-02	0.00E+00	4.94E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002069	Crawler Tractors	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.46E+02	4.16E+02	2.30E+03	2.49E-02	1.52E-01	1.63E-01	2.52E+01	2.84E-04	9.13E-03	0.00E+00	2.25E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002069	Crawler Tractors	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.26E+02	3.58E+02	2.69E+03	2.25E-02	7.26E-02	1.71E-01	2.97E+01	3.34E-04	6.24E-03	0.00E+00	2.03E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002069	Crawler Tractors	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	8.61E+01	2.45E+02	2.88E+03	2.27E-02	8.46E-02	1.64E-01	3.18E+01	3.12E-04	6.16E-03	0.00E+00	2.05E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002069	Crawler Tractors	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.06E+00	3.02E+00	6.37E+01	5.05E-04	1.87E-03	3.71E-03	7.02E-01	7.06E-06	1.38E-04	0.00E+00	4.56E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002069	Crawler Tractors	D	1000	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.06E+00	3.02E+00	9.01E+01	7.70E-04	2.91E-03	8.25E-03	9.93E-01	9.99E-06	2.32E-04	0.00E+00	6.94E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002072	Skid Steer Loaders	D	25	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.04E+02	2.39E+02	1.50E+02	2.07E-03	6.90E-03	1.28E-02	1.65E+00	2.09E-05	5.44E-04	0.00E+00	1.87E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002072	Skid Steer Loaders	D	50	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	9.48E+02	2.21E+03	2.58E+03	2.71E-02	2.23E-01	1.89E-01	2.82E+01	3.64E-04	5.88E-03	0.00E+00	2.44E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002072	Skid Steer Loaders	D	120	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	4.97E+02	1.16E+03	2.25E+03	1.34E-02	1.55E-01	1.04E-01	2.47E+01	2.90E-04	4.54E-03	0.00E+00	1.21E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002075	Off-Highway Tractors	D	120	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	5.44E-02	1.66E-01	7.11E-01	1.28E-05	5.65E-05	7.38E-05	7.76E-03	9.10E-08	6.03E-06	0.00E+00	1.15E-06
Construction a	Diesel	2019	Annual	Mon-Sun	2270002075	Off-Highway Tractors	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	6.65E+01	2.03E+02	1.21E+03	1.56E-02	8.15E-02	1.06E-01	1.32E+01	1.48E-04	5.97E-03	0.00E+00	1.40E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002075	Off-Highway Tractors	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	6.29E+01	1.91E+02	1.13E+03	1.16E-02	3.57E-02	9.13E-02	1.25E+01	1.40E-04	3.62E-03	0.00E+00	1.04E-03
Construction a	Diesel	2019	Annual	Mon-Sun	2270002075	Off-Highway Tractors	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	6.67E+00	2.03E+01	5.23E+02	4.99E-03	2.01E-02	3.89E-02	5.76E+00	5.79E-05	1.53E-03	0.00E+00	4.50E-04
Construction a	Diesel	2019	Annual	Mon-Sun	2270002075	Off-Highway Tractors	D	1000	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	7.04E-01	2.14E+00	7.92E+01	7.99E-04	3.32E-03	8.28E-03	8.70E-01	8.75E-06	2.53E-04	0.00E+00	7.21E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002078	Dumpers/Tenders	D	25	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.31E+00	2.37E+00	8.22E-01	1.09E-05	3.72E-05	6.90E-05	9.03E-03	1.15E-07	2.65E-06	0.00E+00	9.84E-07
Construction a	Diesel	2019	Annual	Mon-Sun	2270002081	Other Construction Equipment	D	15	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.80E+01	3.41E+01	1.57E+01	2.00E-04	1.05E-03	1.25E-03	1.72E-01	2.68E-06	4.90E-05	0.00E+00	1.81E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002081	Other Construction Equipment	D	25	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	3.05E+00	5.77E+00	3.47E+00	4.59E-05	1.57E-04	2.90E-04	3.81E-02	4.83E-07	1.08E-05	0.00E+00	4.14E-06
Construction a	Diesel	2019	Annual	Mon-Sun	2270002081	Other Construction Equipment	D	50	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	4.68E+00	8.97E+00	1.15E+01	1.63E-04	1.03E-03	9.07E-04	1.25E-01	1.62E-06	4.12E-05	0.00E+00	1.47E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002081	Other Construction Equipment	D	120	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	7.73E+00	1.48E+01	5.46E+01	4.03E-04	3.77E-03	3.09E-03	5.98E-01	7.02E-06	1.74E-04	0.00E+00	3.64E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002081	Other Construction Equipment	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.07E+01	2.04E+01	9.90E+01	5.74E-04	5.98E-03	3.99E-03	1.09E+00	1.22E-05	1.93E-04	0.00E+00	5.18E-05
Construction a	Diesel	2019	Annual	Mon-Sun	2270002081	Other Construction Equipment	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.48E+01	4.75E+01	5.45E+02	2.53E-03	1.12E-02	1.65E-02	6.03E+00	5.92E-05	5.74E-04	0.00E+00	2.28E-04
Industrial	Diesel	2019	Annual	Mon-Sun	2270003010	Aerial Lifts	D	15	Industrial Equipment	U	P	NHH	NP	Sacramento	SV	SAC	5.20E+00	5.69E+00	2.25E+00	2.86E-05	1.50E-04	1.79E-04	2.46E-02	3.83E-07	6.99E-06	0.00E+00	2.58E-06
Industrial	Diesel	2019	Annual	Mon-Sun	2270003010	Aerial Lifts	D	25	Industrial Equipment	U	P	NHH	NP	Sacramento	SV	SAC	8.49E+00	9.29E+00	4.64E+00	6.59E-05	2.16E-04	4.02E-04	5.09E-02	6.46E-07	1.80E-05	0.00E+00	5.95E-06
Industrial	Diesel	2019	Annual	Mon-Sun	2270003010	Aerial Lifts	D	50	Industrial Equipment	U	P	NHH	NP	Sacramento	SV	SAC	3.10E+01	3.27E+01	2.94E+01	5.78E-04	2.59E-03	2.65E-03	3.20E-01	4.14E-06	1.69E-04	0.00E+00	5.22E-05
Industrial	Diesel	2019	Annual	Mon-Sun	2270003010	Aerial Lifts	D	120	Industrial Equipment	U	P	NHH	NP	Sacramento	SV	SAC	2.75E+01	2.90E+01	5.03E+01	5.04E-04	3.42E-03	4.02E-03	5.51E-01	6.46E-06	2.69E-04	0.00E+00	4.55E-05
Industrial	Diesel	2019	Annual	Mon-Sun	2270003010	Aerial Lifts	D	500	Industrial Equipment	U	N	NHH	NP	Sacramento	SV	SAC	3.53E+00	3.71E+00	3.57E+01	1.74E-04	7.28E-04	1.83E-03	3.95E-01	3.87E-06	5.57E-05	0.00E+00	1.57E-05
Industrial	Diesel	2019	Annual	Mon-Sun	2270003010	Aerial Lifts	D	750	Industrial Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.84E-01	2.99E-01	5.19E+00	2.58E-05	1.06E-04	2.73E-04	5.74E-02	5.77E-07	8.20E-06	0.00E+00	2.32E-06
Industrial	Diesel	2019	Annual	Mon-Sun	2270003020	Forklifts	D	50	Industrial Equipment	U	P	NHH	NP	Sacramento	SV	SAC	9.41E+00	4.64E+01	3.14E+01	5.88E-04	3.67E-03	2.95E-03	3.40E-01	4.40E-06	1.48E-04	0.00E+00	5.31E-05
Industrial	Diesel	2019	Annual	Mon-Sun	2270003020	Forklifts	D	120	Industrial Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.48E+01	7.28E+01	1.04E+02	1.10E-03	8.03E-03	6.86E-03	1.14E+00	1.33E-05	4.36E-04	0.00E+00	9.89E-05
Industrial	Diesel	2019	Annual	Mon-Sun	2270003020	Forklifts	D	175	Industrial Equipment	U	P	NHH	NP	Sacramento	SV	SAC	1.48E+01	7.32E+01	1.87E+02	1.69E-03	1.27E-02	1.00E-02	2.05E+00	2.31E-05	5.13E-04	0.00E+00	1.52E-04
Industrial	Diesel	2019	Annual	Mon-Sun	2270003020	Forklifts	D	250	Industrial Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.47E+01	7.27E+01	2.54E+02	1.85E-03	5.89E-03	1.06E-02	2.80E+00	3.15E-05	3.54E-04	0.00E+00	1.67E-04
Industrial	Diesel	2019	Annual	Mon-Sun	2270003020	Forklifts	D	500	Industrial Equipment	U	N	NHH	NP	Sacramento	SV	SAC	6.30E+00	3.11E+01	1.56E+02	1.12E-03	3.42E-03	6.04E-03	1.72E+00	1.69E-05	2.13E-04	0.00E+00	1.01E-04
Industrial	Diesel	2019	Annual	Mon-Sun	2270003030	Sweepers/Scrubbers	D	15	Industrial Equipment	U	N	NHH	NP	Sacramento	SV	SAC	6.90E-01	1.23E+00	6.70E-01	7.61E-06	4.48E-05	5.35E-05	7.34E-03	1.14E-07	2.09E-06	0.00E+00	6.87E-07
Industrial	Diesel	2019	Annual	Mon-Sun	2270003030	Sweepers/Scrubbers	D	25	Industrial Equipment	U	N	NHH	NP	Sacramento	SV	SAC	6.90E-01	1.23E+00	1.10E+00	1.45E-05	4.96E-05	9.19E-05	1.21E-02	1.53E-07	3.43E-06	0.00E+00	1.31E-06
Industrial	Diesel	2019	Annual	Mon-Sun	2270003030	Sweepers/Scrubbers	D	50	Industrial Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.35E+01	4.50E+01	6.54E+01	1.31E-03	7.39E-03	6.19E-03	7.09E-01	9.17E-06	3.50E-04	0.00E+00	1.19E-04
Industrial	Diesel	2019	Annual	Mon-Sun	2270003030	Sweepers/Scrubbers	D	120	Industrial Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.23E+01	7.44E+01	2.55E+02	2.76E-03	1.93E-02	1.81E-02	2.79E+00	3.27E-05	1.23E-03	0.00E+00	2.49E-04
Industrial	Diesel	2019	Annual	Mon-Sun	2270003030	Sweepers/Scrubbers	D	175	Industrial Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.02E+01	3.43E+01	2.17E+02	1.95E-03	1.44E-02	1.25E-02	2.38E+00	2.68E-05	6.63E-04	0.00E+00	1.76E-04
Industrial	Diesel	2019	Annual	Mon-Sun	2270003030	Sweepers/Scrubbers	D	250	Industrial Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.64E+00	5.49E+00	4.02E+01	2.88E-04	9.17E-04	1.86E-03	4.44E-01	5.00E-06	6.24E-05	0.00E+00	2.60E-05
Industrial	Diesel	2019	Annual	Mon-Sun	2270003040	Other General Industrial Equipmen	D	15	Industrial Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.81E+00	7.08E+00	2.07E+00	2.35E-05	1.38E-04	1.65E-04	2.26E-02	3.52E-07	6.44E-06	0.00E+00	2.12E-06
Industrial	Diesel	2019	Annual	Mon-Sun	2270003040	Other General Industrial Equipmen	D	25	Industrial Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.43E+00	9.49E+00	6.63E+00	8.78E-05	3.00E-04	5.55E-04	7.28E-02	9.23E-07	2.07E-05	0.00E+00	7.92E-06
Industrial

Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008030	Air Start Unit	D	500	Airport Ground Support Equipment	U	N	NHH	P	Sacramento	SV	SAC	6.38E+00	5.83E+00	1.14E+02	4.26E-04	2.24E-03	4.38E-03	1.26E+00	1.24E-05	1.35E-04	0.00E+00	3.84E-05
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008030	Air Start Unit	D	750	Airport Ground Support Equipment	U	N	NHH	P	Sacramento	SV	SAC	9.19E-01	8.40E-01	2.47E+01	9.36E-05	4.84E-04	9.73E-04	2.73E-01	2.68E-06	2.95E-05	0.00E+00	8.45E-06
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008035	Baggage Tug	D	120	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.59E+01	9.90E+01	2.22E+02	4.20E-03	1.77E-02	2.38E-02	2.42E+00	2.84E-05	2.10E-03	0.00E+00	3.79E-04
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008040	Belt Loader	D	120	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.25E+01	3.34E+01	5.20E+01	8.60E-04	4.00E-03	5.03E-03	5.68E-01	6.66E-06	4.36E-04	0.00E+00	7.76E-05
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008045	Bobtail	D	120	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento	SV	SAC	9.19E-01	1.72E+00	6.13E+00	9.65E-05	4.58E-04	5.85E-04	6.69E-02	7.85E-07	4.99E-05	0.00E+00	8.70E-06
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008050	Cargo Loader	D	120	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.52E+01	3.79E+01	1.09E+02	1.39E-03	8.07E-03	8.78E-03	1.20E+00	1.40E-05	6.91E-04	0.00E+00	1.25E-04
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008065	Forklift	D	175	Airport Ground Support Equipment	U	P	NHH	NP	Sacramento	SV	SAC	2.11E+00	4.30E+00	1.14E+01	8.21E-05	7.00E-04	6.03E-04	1.26E-01	1.41E-06	3.12E-05	0.00E+00	7.41E-06
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008070	Fuel Truck	D	250	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.14E+00	1.95E+00	5.21E+00	2.69E-05	1.11E-04	2.36E-04	5.75E-02	6.47E-07	7.41E-06	0.00E+00	2.43E-06
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008075	Ground Power Unit	D	175	Airport Ground Support Equipment	U	N	NHH	P	Sacramento	SV	SAC	1.69E+01	4.50E+01	3.14E+02	2.26E-03	1.96E-02	1.52E-02	3.45E+00	3.88E-05	8.04E-04	0.00E+00	2.04E-04
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008085	Lav Truck	D	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.70E-01	9.70E-01	2.32E+00	1.91E-05	1.49E-04	1.24E-04	2.54E-02	2.86E-07	6.74E-06	0.00E+00	1.73E-06
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008090	Lift	D	120	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento	SV	SAC	2.81E+00	6.10E+00	2.01E+01	1.97E-04	1.43E-03	1.39E-03	2.20E-01	2.58E-06	9.60E-05	0.00E+00	1.78E-05
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008100	Other GSE	D	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento	SV	SAC	5.03E+00	1.27E+01	5.11E+01	5.89E-04	3.30E-03	4.13E-03	5.60E-01	7.23E-06	2.37E-04	0.00E+00	5.31E-05
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008101	Passenger Stand	D	120	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento	SV	SAC	4.33E-01	8.31E-02	2.80E-01	1.58E-06	1.72E-05	1.71E-05	3.08E-03	3.61E-08	8.40E-07	0.00E+00	1.43E-07
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008102	Sweeper	D	120	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.24E+00	9.87E-01	1.47E+00	6.44E-06	9.23E-05	7.07E-05	1.62E-02	1.82E-07	3.03E-06	0.00E+00	5.81E-07
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008103	Generator	D	120	Airport Ground Support Equipment	U	N	NHH	P	Sacramento	SV	SAC	8.11E-01	3.63E+00	1.36E+01	1.51E-04	1.02E-03	9.61E-04	1.49E-01	1.68E-06	6.74E-05	0.00E+00	1.37E-05
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008103	Generator	D	175	Airport Ground Support Equipment	U	N	NHH	P	Sacramento	SV	SAC	4.43E+00	1.98E+01	1.40E+02	1.19E-03	9.10E-03	7.53E-03	1.53E+00	1.73E-05	4.08E-04	0.00E+00	1.07E-04
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008103	Generator	D	250	Airport Ground Support Equipment	U	N	NHH	P	Sacramento	SV	SAC	4.60E+00	2.06E+01	2.08E+02	1.41E-03	4.80E-03	9.77E-03	2.30E+00	2.59E-05	3.25E-04	0.00E+00	1.27E-04
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008103	Generator	D	500	Airport Ground Support Equipment	U	N	NHH	P	Sacramento	SV	SAC	4.87E-01	2.18E+00	3.50E+01	2.30E-04	7.65E-04	1.46E-03	3.86E-01	4.34E-06	5.22E-05	0.00E+00	2.08E-05
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008103	Generator	D	750	Airport Ground Support Equipment	U	N	NHH	P	Sacramento	SV	SAC	6.49E-01	2.90E+00	7.53E+01	4.97E-04	1.65E-03	3.22E-03	8.31E-01	9.35E-06	1.14E-04	0.00E+00	4.49E-05
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008105	Service Truck	D	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento	SV	SAC	1.78E+00	2.47E+00	4.90E+00	3.01E-05	2.87E-04	2.49E-04	5.38E-02	6.05E-07	1.20E-05	0.00E+00	2.71E-06
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008106	Catering Truck	D	250	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento	SV	SAC	4.33E-01	4.39E-01	3.10E+00	9.23E-06	5.94E-05	8.30E-05	3.43E-02	3.86E-07	2.37E-06	0.00E+00	8.33E-07
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008111	Hydrant Truck	D	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacramento	SV	SAC	8.65E-01	1.48E+00	1.03E+01	7.74E-05	6.25E-04	5.97E-04	1.14E-01	1.28E-06	3.08E-05	0.00E+00	6.98E-06
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008115	Compressor (GSE)	D	120	Airport Ground Support Equipment	U	P	NHH	P	Sacramento	SV	SAC	2.70E-01	6.04E-01	1.57E+00	1.56E-05	1.12E-04	1.09E-04	1.72E-02	2.02E-07	7.55E-06	0.00E+00	1.40E-06
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008115	Compressor (GSE)	D	250	Airport Ground Support Equipment	U	N	NHH	P	Sacramento	SV	SAC	5.41E-02	1.21E-01	6.37E-01	3.70E-06	1.40E-05	2.95E-05	7.04E-03	7.92E-08	9.56E-07	0.00E+00	3.34E-07
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008115	Compressor (GSE)	D	500	Airport Ground Support Equipment	U	N	NHH	P	Sacramento	SV	SAC	2.16E-01	4.83E-01	5.26E+00	2.95E-05	1.10E-04	2.16E-04	5.81E-02	5.70E-07	7.54E-06	0.00E+00	2.66E-06
Airport Groun	Diesel	2019	Annual	Mon-Sun	2270008115	Compressor (GSE)	D	750	Airport Ground Support Equipment	U	N	NHH	P	Sacramento	SV	SAC	7.03E-01	1.57E+00	2.52E+01	1.42E-04	5.31E-04	1.06E-03	2.79E-01	2.80E-06	3.67E-05	0.00E+00	1.28E-05
Transport Refr	Diesel	2019	Annual	Mon-Sun	2270009005	Transport Refrigeration Units	D	15	Transport Refrigeration Units	U	N	NHH	NP	Sacramento	SV	SAC	4.84E+02	1.38E+03	5.05E+02	5.74E-03	3.38E-02	4.03E-02	5.53E+00	7.02E-05	1.58E-03	0.00E+00	5.18E-04
Transport Refr	Diesel	2019	Annual	Mon-Sun	2270009005	Transport Refrigeration Units	D	25	Transport Refrigeration Units	U	N	NHH	NP	Sacramento	SV	SAC	1.54E+02	4.38E+02	2.72E+02	3.60E-03	1.23E-02	2.28E-02	2.99E+00	3.79E-05	8.54E-04	0.00E+00	3.25E-04
Transport Refr	Diesel	2019	Annual	Mon-Sun	2270009005	Transport Refrigeration Units	D	50	Transport Refrigeration Units	U	N	NHH	NP	Sacramento	SV	SAC	3.75E+03	1.51E+04	1.78E+04	1.48E-01	1.54E+00	1.20E+00	1.95E+02	2.52E-03	1.98E-02	0.00E+00	1.33E-02
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010005	Compressors (Workover)	D	25	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.54E-01	3.45E-01	2.27E-01	3.24E-06	1.10E-05	2.01E-05	2.49E-03	3.16E-08	9.46E-07	0.00E+00	2.92E-07
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010005	Compressors (Workover)	D	120	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	8.11E-01	2.74E+00	8.65E+00	9.74E-05	6.43E-04	6.32E-04	9.46E-02	1.11E-06	4.51E-05	0.00E+00	8.79E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010005	Compressors (Workover)	D	175	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	4.63E-01	1.56E+00	8.20E+00	7.08E-05	5.27E-04	4.65E-04	8.99E-02	1.01E-06	2.54E-05	0.00E+00	6.39E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010005	Compressors (Workover)	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	1.93E-01	6.51E-01	4.77E+00	3.26E-05	1.10E-04	2.36E-04	5.26E-02	5.92E-07	8.01E-06	0.00E+00	2.94E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010005	Compressors (Workover)	D	500	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	1.04E+00	3.51E+00	4.92E+01	3.26E-04	1.08E-03	2.17E-03	5.43E-01	5.33E-06	7.91E-05	0.00E+00	2.94E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010005	Compressors (Workover)	D	750	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	1.12E+00	3.78E+00	5.40E+01	3.59E-04	1.19E-03	2.44E-03	5.96E-01	5.85E-06	8.79E-05	0.00E+00	3.24E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010005	Compressors (Workover)	D	1000	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	3.86E-02	1.30E-01	3.35E+00	2.39E-05	7.91E-05	2.72E-04	3.69E-02	3.63E-07	7.07E-06	0.00E+00	2.16E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010010	Pump (Workover)	D	120	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.54E+00	5.21E+00	1.75E+01	1.98E-04	1.30E-03	1.28E-03	1.92E-01	2.25E-06	9.15E-05	0.00E+00	1.78E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010010	Pump (Workover)	D	175	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.85E+00	6.25E+00	3.11E+01	2.68E-04	2.00E-03	1.76E-03	3.41E-01	3.84E-06	9.63E-05	0.00E+00	2.42E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010010	Pump (Workover)	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	4.21E+00	1.42E+01	9.96E+01	6.81E-04	2.31E-03	4.94E-03	1.10E+00	1.24E-05	1.67E-04	0.00E+00	6.15E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010010	Pump (Workover)	D	500	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	7.64E+00	2.58E+01	3.33E+02	2.21E-03	7.35E-03	1.47E-02	3.68E+00	3.61E-05	5.36E-04	0.00E+00	1.99E-04
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010010	Pump (Workover)	D	9999	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	2.51E+00	8.47E+00	4.46E+02	3.41E-03	1.06E-02	3.62E-02	4.92E+00	4.83E-05	9.43E-04	0.00E+00	3.07E-04
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010015	Generator (Workover)	D	120	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	2.43E+00	8.21E+00	2.65E+01	2.99E-04	1.97E-03	1.94E-03	2.90E-01	3.40E-06	1.38E-04	0.00E+00	2.70E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010015	Generator (Workover)	D	175	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.24E+00	4.17E+00	2.07E+01	1.79E-04	1.33E-03	1.18E-03	2.27E-01	2.56E-06	6.42E-05	0.00E+00	1.61E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010015	Generator (Workover)	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	3.47E-01	1.17E+00	7.35E+00	5.02E-05	1.70E-04	3.64E-04	8.11E-02	9.13E-07	1.23E-05	0.00E+00	4.53E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010015	Generator (Workover)	D	500	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	4.25E-01	1.43E+00	1.77E+01	1.17E-04	3.90E-04	7.81E-04	1.95E-01	1.92E-06	2.85E-05	0.00E+00	1.06E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010015	Generator (Workover)	D	750	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	5.79E-01	1.95E+00	2.85E+01	1.89E-04	6.28E-04	1.29E-03	3.14E-01	3.09E-06	4.63E-05	0.00E+00	1.71E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010015	Generator (Workover)	D	9999	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	7.72E-02	2.61E-01	1.20E+01	9.15E-05	2.83E-04	9.73E-04	1.32E-01	1.30E-06	2.53E-05	0.00E+00	8.25E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010020	Swivel	D	120	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	7.33E-01	2.48E+00	8.84E+00	9.97E-05	6.57E-04	6.46E-04	9.68E-02	1.14E-06	4.61E-05	0.00E+00	8.99E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010020	Swivel	D	175	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.97E+00	6.65E+00	3.01E+01	2.60E-04	1.93E-03	1.71E-03	3.30E-01	3.71E-06	9.31E-05	0.00E+00	2.34E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010020	Swivel	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	4.25E-01	1.43E+00	1.05E+01	7.18E-05	2.43E-04	5.20E-04	1.16E-01	1.30E-06	1.76E-05	0.00E+00	6.47E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010020	Swivel	D	500	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	1.16E-01	2.70E-02	3.58E-01	1.02E-06	6.84E-06	1.39E-05	3.96E-03	3.89E-08	3.89E-07	0.00E+00	9.24E-08
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010025	Snubbing	D	120	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.16E-01	3.91E-01	1.34E+00	1.51E-05	9.98E-05	9.81E-05	1.47E-02	1.72E-07	7.01E-06	0.00E+00	1.37E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010030	Other Workover Equipment	D	120	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	4.05E+00	1.37E+01	4.18E+01	4.71E-04	3.11E-03	3.06E-03	4.58E-01	5.37E-06	2.18E-04	0.00E+00	4.25E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010030	Other Workover Equipment	D	175	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.93E+00	6.51E+00	3.37E+01	2.91E-04	2.17E-03	1.91E-03	3.70E-01	4.16E-06	1.04E-04	0.00E+00	2.63E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010030	Other Workover Equipment	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	6.56E-01	2.22E+00	1.62E+01	1.11E-04	3.76E-04	8.04E-04	1.79E-01	2.01E-06	2.72E-05	0.00E+00	1.00E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010030	Other Workover Equipment	D	750	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	3.05E+00	1.03E+01	1.44E+02	9.60E-04	3.18E-03	6.52E-03	1.59E+00	1.56E-05	2.35E-04	0.00E+00	8.66E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010030	Other Workover Equipment	D	1000	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	7.72E-01	2.60E+00	8.71E+01	6.23E-04	2.06E-03	7.08E-03	9.62E-01	9.44E-06	1.84E-04	0.00E+00	5.62E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010035	Lift (Drilling)	D	120	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.16E-01	3.90E-01	1.48E+00	1.66E-05	1.10E-04	1.08E-04	1.61E-02	1.89E-07	7.70E-06	0.00E+00	1.50E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010035	Lift (Drilling)	D	175	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	7.72E-02	2.60E-01	1.32E+00	1.14E-05	8.46E-05	7.47E-05	1.44E-02	1.62E-07	4.08E-06	0.00E+00	1.03E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010035	Lift (Drilling)	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	3.86E-01	1.30E+00	9.98E+00	6.83E-05	2.31E-04	4.95E-04	1.10E-01	1.24E-06	1.68E-05	0.00E+00	6.16E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010035	Lift (Drilling)	D	500	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	2.66E+00	8.98E+00	1.17E+02	7.76E-04	2.58E-03	5.17E-03	1.29E+00	1.27E-05	1.88E-04	0.00E+00	7.00E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010035	Lift (Drilling)	D	750	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	7.72E-02	2.61E-01	3.39E+00	2.25E-05	7.47E-05	1.53E-04	3.74E-02	3.67E-07	5.51E-06	0.00E+00	2.03E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010040	Pump (Drilling)	D	120	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.43E+00	4.82E+00	1.61E+01	1.81E-04	1.19E-03	1.17E-03	1.76E-01	2.06E-06	8.38E-05	0.00E+00	1.63E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010040	Pump (Drilling)	D	175	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.62E+00	5.47E+00	2.70E+01	2.33E-04	1.74E-03	1.53E-03	2.96E-01	3.33E-06	8.37E-05	0.00E+00	2.10E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010040	Pump (Drilling)	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	2.51E+00	8.47E+00	6.63E+01	4.54E-04	1.54E-03	3.29E-03	7.32E-01	8.24E-06	1.11E-04	0.00E+00	4.09E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010040	Pump (Drilling)	D	500	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	5.48E+00	1.85E+01	2.46E+02	1.63E-03	5.43E-03	1.09E-02	2.72E+00	3.06E-05	3.96E-04	0.00E+00	1.47E-04
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010040	Pump (Drilling)	D	750	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	5.25E+00	1.77E+01	3.54E+02	2.35E-03	7.81E-03	1.60E-02	3.91E+00	3.84E-05	5.76E-04	0.00E+00	2.12E-04
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010040	Pump (Drilling)	D	9999	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	5.40E-01	1.82E+00	6.56E+01	5.01E-04	1.55E-03	5.33E-03	7.24E-01	7.11E-06	1.39E-04	0.00E+00	4.52E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010045	Generator (Drilling)	D	50	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	3.86E-02	1.30E-01	1.49E-01	3.44E-06	1.64E-05	1.34E-05	1.61E-03	2.09E-08	8.63E-07	0.00E+00	3.10E-07
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010045	Generator (Drilling)	D	120	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	3.47E-01	1.17E+00	4.03E+00	4.54E-05	2.99E-04	2.94E-04	4.41E-02	5.17E-07	2.10E-05	0.00E+00	4.10E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010045	Generator (Drilling)	D	175	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.20E+00	4.04E+00	1.88E+01	1.63E-04	1.21E-03	1.07E-03	2.06E-01	2.32E-06	5.83E-05	0.00E+00	1.47E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010045	Generator (Drilling)	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	8.49E-01	2.87E+00	1.87E+01	1.28E-04	4.34E-04	9.29E-04	2.07E-01	2.33E-06	3.15E-05	0.00E+00	1.16E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010045	Generator (Drilling)	D	500	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	4.25E-01	2.48E+00	3.13E+01	2.22E-04	7.06E-04	1.39E-03	3.46E-01	3.39E-06	5.06E-05	0.00E+00	2.00E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010045	Generator (Drilling)	D	750	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	4.63E-01	1.56E+00	2.06E+01	1.37E-04	4.55E-04	9.33E-04	2.28E-01	2.24E-06	3.36E-05	0.00E+00	1.24E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010055	Drill Rig	D	120	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	6.72E+00	1.34E+01	5.08E+01	1.17E-04	3.13E-03	1.34E-03	5.59E-01	6.55E-06	9.79E-06	0.00E+00	1.05E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010055	Drill Rig	D	175	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	6.91E+00	1.37E+01	9.44E+01	1.54E-04	5.15E-03	5.15E-04	1.04E+00	1.17E-05	1.68E-05	0.00E+00	1.39E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010055	Drill Rig	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	5.10E+00	1.01E+01	9.25E+01	1.49E-04	1.73E-03	4.71E-04	1.02E+00	1.15E-05	1.63E-05	0.00E+00	1.35E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010055	Drill Rig	D	500	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	1.39E+01	2.76E+01	4.57E+02	7.39E-04	8.46E-03	2.33E-03	5.06E+00	4.97E-05	8.05E-05	0.00E+00	6.67E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010055	Drill Rig	D	750	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	3.55E+00	7.06E+00	1.81E+02	2.93E-04	3.35E-03	9.25E-04	2.01E+00	2.02E-05	3.19E-05	0.00E+00	2.64E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010055	Drill Rig	D	1000	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	1.43E+01	2.84E+01	1.85E+03	3.01E-03	3.42E-02	8.21E-02	2.04E+01	2.06E-04	6.77E-04	0.00E+00	2.71E-04
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010057	Drill Rig (Mobile)	D	50	Oil Drilling	U	P	NHH	NP	Sacramento	SV	SAC	7.72E-02	6.00E-01	8.70E-01	4.10E-05	1.27E-04	9.13E-05	9.30E-03	1.20E-07	8.45E-06	0.00E+00	3.70E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010057	Drill Rig (Mobile)	D	120	Oil Drilling	U	P	NHH	NP	Sacramento	SV	SAC	2.70E-01	2.10E+00	7.43E+00	1.52E-04	6.22E-04	8.54E-04	8.08E-02	9.48E-07	6.99E-05	0.00E+00	1.37E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010057	Drill Rig (Mobile)	D	175	Oil Drilling	U	N	NHH	NP	Sacramento	SV	SAC	7.72E-02	6.00E-01	3.87E+00	5.70E-05	2.75E-04	3.81E-04	4.23E-02	4.75E-07	2.16E-05	0.00E+00	5.14E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010057	Drill Rig (Mobile)	D	250	Oil Drilling	U	N	NHH	NP	Sacramento	SV	SAC	3.86E-02	3.00E-01	2.56E+00	3.09E-05	9.15E-05	2.35E-04	2.82E-02	3.17E-07	9.87E-06	0.00E+00	2.78E-06
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010057	Drill Rig (Mobile)	D	500	Oil Drilling	U	N	NHH	NP	Sacramento	SV	SAC	1.16E-01	8.99E-01	1.27E+01	1.42E-04	6.04E-04	1.06E-03	1.40E-01	1.37E-06	4.38E-05	0.00E+00	1.28E-05
Oil Drilling	Diesel	2019	Annual	Mon-Sun	2270010057	Drill Rig (Mobile)	D	750	Oil Drilling	U	N	NHH	NP	Sacramento	SV	SAC	7.72E-02	6.00E-01	1.68E+01	1.87E-04	7.95E-04	1.42E-03	1.84E-01	1.85E-06	5.82E-05

Light Commer	Gasoline	2030	Annual	Mon-Sun	2265006025	Welders	G4	175	Light Commercial Equipment	U	P	NHH	P	Sacrament	SV	SAC	4.16E+00	2.37E+00	1.42E+01	6.87E-05	4.40E-03	2.21E-04	1.30E-01	1.29E-06	1.04E-05	1.13E-05	3.89E-06
Airport Groun	Gasoline	2030	Annual	Mon-Sun	2265008015	A/C Tug Narrow Body	G4	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.64E+00	7.25E+00	6.90E+01	3.80E-04	2.46E-02	2.23E-03	6.26E-01	6.22E-06	4.99E-05	6.81E-05	2.15E-05
Airport Groun	Gasoline	2030	Annual	Mon-Sun	2265008020	A/C Tug Wide Body	G4	500	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.20E+00	1.69E+00	5.98E+01	1.97E-04	1.91E-02	1.72E-03	5.46E-01	5.58E-06	4.48E-05	3.03E-05	1.12E-05
Airport Groun	Gasoline	2030	Annual	Mon-Sun	2265008025	Air Conditioner	G4	175	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.15E-01	6.93E-03	6.10E-02	1.44E-07	1.76E-05	1.66E-06	5.61E-04	5.57E-09	4.47E-08	5.72E-08	8.17E-09
Airport Groun	Gasoline	2030	Annual	Mon-Sun	2265008030	Air Start Unit	G4	175	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	2.64E+00	5.46E-01	5.78E+00	1.51E-05	1.70E-03	1.59E-04	5.30E-02	5.27E-07	4.22E-06	5.01E-06	8.54E-07
Airport Groun	Gasoline	2030	Annual	Mon-Sun	2265008070	Fuel Truck	G4	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.60E+00	2.18E-01	6.39E-01	1.51E-06	1.85E-04	1.73E-05	5.87E-03	5.83E-08	4.68E-07	9.99E-07	8.52E-08
Airport Groun	Gasoline	2030	Annual	Mon-Sun	2265008075	Ground Power Unit	G4	175	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	4.59E+00	1.00E+01	1.02E+02	3.48E-04	3.23E-02	2.90E-03	9.36E-01	9.30E-06	7.46E-05	9.18E-05	1.97E-05
Airport Groun	Gasoline	2030	Annual	Mon-Sun	2265008085	Lav Truck	G4	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	5.61E+00	1.87E+01	5.55E+01	2.88E-04	1.99E-02	1.72E-03	5.03E-01	5.00E-06	4.01E-05	9.28E-05	1.62E-05
Airport Groun	Gasoline	2030	Annual	Mon-Sun	2265008095	Maint. Truck	G4	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	7.18E+00	8.85E+00	5.23E+01	1.96E-04	1.69E-02	1.51E-03	4.78E-01	4.75E-06	3.81E-05	6.12E-05	1.11E-05
Airport Groun	Gasoline	2030	Annual	Mon-Sun	2265008101	Passenger Stand	G4	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	4.89E+00	2.52E+00	1.68E+01	5.23E-05	5.13E-03	4.78E-04	1.54E-01	1.37E-06	1.23E-05	1.84E-05	2.96E-06
Airport Groun	Gasoline	2030	Annual	Mon-Sun	2265008105	Service Truck	G4	250	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.07E+01	4.77E+01	1.53E+02	9.48E-04	5.79E-02	5.24E-03	1.39E+00	1.42E-05	1.14E-04	2.58E-04	5.35E-05
Airport Groun	Gasoline	2030	Annual	Mon-Sun	2265008106	Catering Truck	G4	250	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	4.17E+00	1.16E+01	1.10E+02	7.71E-04	4.36E-02	3.92E-03	9.95E-01	8.69E-06	8.15E-05	1.14E-04	4.35E-05
Airport Groun	Gasoline	2030	Annual	Mon-Sun	2265008110	Water Truck	G4	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.82E+00	1.55E+00	4.22E+00	1.54E-05	1.33E-03	1.24E-04	3.85E-02	3.83E-07	3.07E-06	7.10E-06	8.72E-07
Airport Groun	Gasoline	2030	Annual	Mon-Sun	2265008111	Hydrant truck	G4	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.50E+00	1.47E+01	1.16E+02	1.05E-03	5.04E-02	4.45E-03	1.04E+00	8.79E-06	8.24E-05	1.35E-04	5.89E-05
Industrial	CNG	2030	Annual	Mon-Sun	2266003020	Forklifts	C4	175	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	8.53E+00	4.21E+01	2.06E+02	7.98E-05	4.78E-02	4.06E-03	1.37E+00	0.00E+00	1.22E-04	0.00E+00	6.69E-04
Light Commer	CNG	2030	Annual	Mon-Sun	2266006005	Generator Sets	C4	175	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	4.44E+00	1.40E+00	1.52E+01	2.70E-06	2.67E-03	2.62E-04	1.03E-01	0.00E+00	9.17E-06	0.00E+00	2.26E-05
Light Commer	CNG	2030	Annual	Mon-Sun	2266006020	Gas Compressors	C4	175	Light Commercial Equipment	U	P	NHH	P	Sacrament	SV	SAC	2.77E-01	6.46E+00	9.95E+01	5.74E-05	2.17E-02	2.17E-03	6.65E-01	0.00E+00	5.30E-05	0.00E+00	4.82E-04
Light Commer	CNG	2030	Annual	Mon-Sun	2266006020	Gas Compressors	C4	250	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	2.22E-01	5.17E+00	1.03E+02	4.42E-05	2.50E-02	2.10E-03	6.86E-01	0.00E+00	6.10E-05	0.00E+00	3.70E-04
Light Commer	CNG	2030	Annual	Mon-Sun	2266006020	Gas Compressors	C4	500	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.94E-01	4.52E+00	1.45E+02	6.22E-05	3.52E-02	2.96E-03	9.66E-01	0.00E+00	8.59E-05	0.00E+00	5.22E-04
Airport Groun	CNG	2030	Annual	Mon-Sun	2266008010	Cargo Tractor	C4	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	4.13E+00	1.76E+00	1.63E+01	2.96E-06	2.89E-03	2.78E-04	1.10E-01	0.00E+00	9.80E-06	0.00E+00	2.48E-05
Airport Groun	CNG	2030	Annual	Mon-Sun	2266008025	Air Conditioner	C4	175	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	6.88E-01	4.16E-02	4.44E-01	6.20E-08	7.43E-05	7.27E-06	3.01E-03	0.00E+00	2.68E-07	0.00E+00	5.20E-07
Airport Groun	CNG	2030	Annual	Mon-Sun	2266008070	Fuel Truck	C4	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	4.57E-01	7.09E-01	2.75E+00	8.47E-07	5.70E-04	5.25E-05	1.84E-02	0.00E+00	1.64E-06	0.00E+00	7.10E-06
Airport Groun	CNG	2030	Annual	Mon-Sun	2266008085	Lav Truck	C4	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	4.10E-01	4.35E-01	1.56E+00	3.95E-07	3.04E-04	2.84E-05	1.05E-02	0.00E+00	9.35E-07	0.00E+00	3.31E-06
Airport Groun	CNG	2030	Annual	Mon-Sun	2266008101	Passenger Stand	C4	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.77E-01	5.82E-03	6.22E-02	8.48E-09	1.04E-05	1.01E-06	4.22E-04	0.00E+00	3.75E-08	0.00E+00	7.11E-08
Airport Groun	CNG	2030	Annual	Mon-Sun	2266008105	Service Truck	C4	250	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.03E+00	7.23E+00	2.90E+01	1.16E-05	6.84E-03	5.79E-04	1.94E-01	0.00E+00	1.72E-05	0.00E+00	9.74E-05
Airport Groun	CNG	2030	Annual	Mon-Sun	2266008106	Catering Truck	C4	250	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	7.75E-01	9.61E-01	1.13E+01	3.10E-06	2.26E-03	2.10E-04	7.62E-02	0.00E+00	6.77E-06	0.00E+00	2.60E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002003	Pavers	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	4.02E+01	9.13E+01	5.33E+02	3.10E-03	3.43E-02	1.47E-02	5.85E+00	6.58E-05	7.67E-04	0.00E+00	2.80E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002003	Pavers	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	4.84E+00	1.10E+01	9.67E+01	4.89E-04	2.24E-03	2.35E-03	1.07E+00	1.20E-05	8.60E-05	0.00E+00	4.41E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002003	Pavers	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	4.97E+00	1.13E+01	1.19E+02	5.87E-04	2.73E-03	2.64E-03	1.32E+00	1.29E-05	1.00E-04	0.00E+00	5.30E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002015	Rollers	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	1.07E+02	2.05E+02	1.01E+03	4.35E-03	6.23E-02	1.77E-02	1.11E+01	1.24E-04	8.20E-04	0.00E+00	3.93E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002015	Rollers	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.52E+01	2.90E+01	2.01E+02	7.64E-04	4.30E-03	2.92E-03	2.22E+00	2.50E-05	9.60E-05	0.00E+00	6.89E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002015	Rollers	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.06E+01	2.04E+01	2.02E+02	7.58E-04	4.14E-03	2.74E-03	2.23E+00	2.19E-05	9.37E-05	0.00E+00	6.84E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002018	Scrapers	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	2.25E+01	6.80E+01	4.58E+02	2.67E-03	3.00E-02	1.17E-02	5.03E+00	5.66E-05	6.05E-04	0.00E+00	2.41E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002018	Scrapers	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.19E+01	6.63E+01	6.28E+02	3.23E-03	1.47E-02	1.41E-02	6.93E+00	7.80E-05	5.16E-04	0.00E+00	2.91E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002018	Scrapers	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	6.03E+01	1.82E+02	2.65E+03	1.34E-02	6.11E-02	5.45E-02	2.93E+01	2.87E-04	2.07E-03	0.00E+00	1.21E-03
Construction	Diesel	2030	Annual	Mon-Sun	2270002018	Scrapers	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.41E+00	7.29E+00	1.83E+02	9.24E-04	4.22E-03	3.83E-03	2.02E+00	2.03E-05	1.44E-04	0.00E+00	8.34E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002021	Paving Equipment	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	9.38E+00	2.14E+01	9.84E+01	5.53E-04	6.29E-03	2.60E-03	1.08E+00	1.22E-05	1.34E-04	0.00E+00	4.99E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002021	Paving Equipment	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.64E+00	6.04E+00	3.34E+01	1.63E-04	7.60E-04	7.64E-04	3.69E-01	4.15E-06	2.75E-05	0.00E+00	1.47E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002024	Surfacing Equipment	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	1.89E-01	2.33E-01	9.07E-01	3.46E-06	5.39E-05	1.65E-05	9.97E-03	1.12E-07	7.67E-07	0.00E+00	3.13E-07
Construction	Diesel	2030	Annual	Mon-Sun	2270002024	Surfacing Equipment	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.78E-01	4.66E-01	2.84E+00	9.49E-06	5.88E-05	4.36E-05	3.14E-02	3.53E-07	1.47E-06	0.00E+00	8.57E-07
Construction	Diesel	2030	Annual	Mon-Sun	2270002024	Surfacing Equipment	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.15E+00	3.88E+00	3.88E+01	1.28E-04	7.79E-04	5.57E-04	4.29E-01	4.21E-06	1.94E-05	0.00E+00	1.15E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002024	Surfacing Equipment	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	4.61E-01	5.68E-01	8.90E+00	2.94E-05	1.79E-04	1.30E-04	9.85E-02	9.90E-07	4.48E-06	0.00E+00	2.65E-06
Construction	Diesel	2030	Annual	Mon-Sun	2270002027	Signal Boards	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	8.93E+00	1.31E+01	9.20E+01	2.80E-04	5.43E-03	1.04E-03	1.01E+00	1.14E-05	4.37E-05	0.00E+00	2.53E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002027	Signal Boards	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.89E+00	2.77E+00	3.19E+01	9.05E-05	6.45E-04	3.06E-04	3.53E-01	3.97E-06	1.03E-05	0.00E+00	8.17E-06
Construction	Diesel	2030	Annual	Mon-Sun	2270002030	Trenchers	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	2.81E+01	4.81E+01	3.15E+02	1.83E-03	1.99E-02	9.33E-03	3.46E+00	3.89E-05	4.91E-04	0.00E+00	1.66E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002030	Trenchers	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.52E+00	4.31E+00	4.35E+01	2.17E-04	1.00E-03	1.14E-03	4.80E-01	5.41E-06	4.21E-05	0.00E+00	1.96E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002030	Trenchers	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.21E+00	5.50E+00	7.74E+01	3.75E-04	1.82E-03	1.86E-03	8.55E-01	8.40E-06	7.03E-05	0.00E+00	3.38E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002030	Trenchers	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	9.21E-02	1.58E-01	4.19E+00	2.03E-05	9.85E-05	1.02E-04	4.63E-02	4.66E-07	3.84E-06	0.00E+00	1.84E-06
Construction	Diesel	2030	Annual	Mon-Sun	2270002033	Bore/Drill Rigs	D	175	Construction and Mining Equipment	U	P	NHH	P	Sacrament	SV	SAC	5.85E+00	1.34E+01	8.60E+01	2.12E-04	5.06E-03	4.65E-04	9.46E-01	1.06E-05	1.76E-05	0.00E+00	1.91E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002033	Bore/Drill Rigs	D	250	Construction and Mining Equipment	U	N	NHH	P	Sacrament	SV	SAC	5.03E+00	1.15E+01	9.81E+01	2.43E-04	1.98E-03	5.25E-04	1.09E+00	1.22E-05	1.92E-05	0.00E+00	2.19E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002033	Bore/Drill Rigs	D	500	Construction and Mining Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.12E+01	2.57E+01	3.61E+02	8.94E-04	7.08E-03	1.93E-03	4.00E+00	3.92E-05	7.06E-05	0.00E+00	8.06E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002033	Bore/Drill Rigs	D	750	Construction and Mining Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.43E+00	3.28E+00	9.10E+01	2.25E-04	1.78E-03	4.87E-04	1.01E+00	1.01E-05	1.78E-05	0.00E+00	2.03E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002033	Bore/Drill Rigs	D	1000	Construction and Mining Equipment	U	N	NHH	P	Sacrament	SV	SAC	2.40E+00	5.49E+00	2.30E+02	5.70E-04	4.51E-03	1.06E-02	2.55E+00	2.56E-05	9.51E-05	0.00E+00	5.14E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002036	Excavators	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	4.59E+02	1.78E+03	9.06E+03	3.75E-02	5.89E-01	9.22E-02	9.96E+01	1.12E-03	4.04E-03	0.00E+00	3.38E-03
Construction	Diesel	2030	Annual	Mon-Sun	2270002036	Excavators	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.87E+02	7.22E+02	5.18E+03	2.05E-02	1.15E-01	4.57E-02	5.73E+01	6.44E-04	1.64E-03	0.00E+00	1.85E-03
Construction	Diesel	2030	Annual	Mon-Sun	2270002036	Excavators	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.35E+02	5.21E+02	5.50E+03	2.17E-02	1.17E-01	4.64E-02	6.08E+01	5.97E-04	1.72E-03	0.00E+00	1.96E-03
Construction	Diesel	2030	Annual	Mon-Sun	2270002036	Excavators	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	7.22E-01	2.79E+00	4.89E+01	1.93E-04	1.04E-03	4.16E-04	5.40E-01	5.43E-06	1.54E-05	0.00E+00	1.74E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002039	Concrete/Industrial Saws	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	1.26E-01	2.00E-01	1.46E+00	4.61E-06	8.67E-05	1.66E-05	1.60E-02	1.80E-07	7.17E-07	0.00E+00	4.16E-07
Construction	Diesel	2030	Annual	Mon-Sun	2270002045	Cranes	D	175	Construction and Mining Equipment	U	P	NHH	P	Sacrament	SV	SAC	2.35E+01	8.22E+01	3.00E+02	1.47E-03	1.95E-02	5.33E-03	3.30E+00	3.71E-05	2.47E-04	0.00E+00	1.33E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002045	Cranes	D	250	Construction and Mining Equipment	U	N	NHH	P	Sacrament	SV	SAC	4.55E+01	1.59E+02	8.08E+02	3.53E-03	1.80E-02	1.18E-02	8.93E+00	1.00E-04	3.86E-04	0.00E+00	3.18E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002045	Cranes	D	500	Construction and Mining Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.67E+01	5.84E+01	4.75E+02	2.06E-03	1.01E-02	6.46E-03	5.26E+00	5.16E-05	2.21E-04	0.00E+00	1.86E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002045	Cranes	D	750	Construction and Mining Equipment	U	N	NHH	P	Sacrament	SV	SAC	2.99E+00	1.05E+01	1.44E+02	6.22E-04	3.05E-03	1.98E-03	1.59E+00	1.60E-05	6.76E-05	0.00E+00	5.61E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002045	Cranes	D	9999	Construction and Mining Equipment	U	N	NHH	P	Sacrament	SV	SAC	3.76E+00	1.32E+01	5.78E+02	2.75E-03	1.25E-02	3.15E-02	6.38E+00	6.42E-05	4.89E-04	0.00E+00	2.49E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002048	Graders	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	2.01E+02	5.18E+02	2.92E+03	1.34E-02	1.88E-01	4.60E-02	3.21E+01	3.61E-04	2.15E-03	0.00E+00	1.21E-03
Construction	Diesel	2030	Annual	Mon-Sun	2270002048	Graders	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.25E+02	3.22E+02	2.50E+03	1.05E-02	5.59E-02	3.33E-02	2.77E+01	3.11E-04	1.18E-03	0.00E+00	9.50E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002048	Graders	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.52E+00	9.10E+00	9.43E+01	3.94E-04	2.01E-03	1.19E-03	1.04E+00	1.02E-05	4.32E-05	0.00E+00	3.55E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002048	Graders	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	4.61E-02	1.19E-01	2.61E+00	1.09E-05	5.57E-05	3.33E-05	2.89E-02	2.90E-07	1.20E-06	0.00E+00	9.83E-07
Construction	Diesel	2030	Annual	Mon-Sun	2270002051	Off-Highway Trucks	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	4.09E+00	2.22E+01	1.26E+02	5.60E-04	8.34E-03	1.37E-03	1.38E+00	1.56E-05	6.10E-05	0.00E+00	5.05E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002051	Off-Highway Trucks	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.02E+01	1.64E+02	1.23E+03	5.21E-03	2.79E-02	1.15E-02	1.36E+01	1.53E-04	4.14E-04	0.00E+00	4.70E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002051	Off-Highway Trucks	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	4.25E+01	2.30E+02	2.84E+03	1.20E-02	6.09E-02	2.53E-02	3.13E+01	3.08E-04	9.41E-04	0.00E+00	1.08E-03
Construction	Diesel	2030	Annual	Mon-Sun	2270002051	Off-Highway Trucks	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	9.66E+00	5.23E+01	1.04E+03	4.41E-03	2.24E-02	9.42E-03	1.15E+01	1.16E-04	3.49E-04	0.00E+00	3.98E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002051	Off-Highway Trucks	D	1000	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	4.53E+00	2.45E+01	6.92E+02	2.97E-03	1.49E-02	3.57E-02	7.65E+00	7.69E-05	4.55E-04	0.00E+00	2.68E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002054	Crushing/Proc. Equipment	D	175	Construction and Mining Equipment	U	P	NHH	P	Sacrament	SV	SAC	1.20E+01	3.15E+01	2.39E+02	9.16E-04	1.50E-02	2.78E-03	2.63E+00	2.96E-05	1.20E-04	0.00E+00	8.27E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002054	Crushing/Proc. Equipment	D	250	Construction and Mining Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.20E+00	3.13E+00	3.46E+01	1.25E-04	7.44E-04	3.38E-04	3.82E-01	4.30E-06	1.18E-05	0.00E+00	1.12E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002054	Crushing/Proc. Equipment	D	500	Construction and Mining Equipment	U	N	NHH	P	Sacrament	SV	SAC	6.73E+00	1.76E+01	2.98E+02	1.07E-03	6.13E-03	2.76E-03	3.29E+00	3.23E-05	9.98E-05	0.00E+00	9.64E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002054	Crushing/Proc. Equipment	D	750	Construction and Mining Equipment	U	N	NHH	P	Sacrament	SV	SAC	7.68E-02	2.01E-01	5.35E+00	1.92E-05	1.10E-04	4.98E-05	5.91E-02	5.95E-07	1.78E-06	0.00E+00	1.73E-06
Construction	Diesel	2030	Annual	Mon-Sun	2270002054	Crushing/Proc. Equipment	D	9999	Construction and Mining Equipment	U	N	NHH	P	Sacrament	SV	SAC	7.68E-02	2.01E-01	1.19E+01	4.54E-05	2.45E-04	5.99E-04	1.31E-01	1.32E-06	7.61E-06	0.00E+00	4.10E-06
Construction	Diesel	2030	Annual	Mon-Sun	2270002057	Rough Terrain Forklifts	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	4.28E+01	1.33E+02	7.53E+02	2.93E-03	4.79E-02	7.82E-03	8.28E+00	9.31E-05	3.45E-04	0.00E+00	2.64E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002057	Rough Terrain Forklifts	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.39E+00	7.40E+00	5.71E+01	2.13E-04	1.25E-03	5.16E-04	6.32E-01	7.11E-06	1.85E-05	0.00E+00	1.92E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002057	Rough Terrain Forklifts	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.57E+00	4.87E+00	5.64E+01	2.09E-04	1.18E-03	4.87E-04	6.24E-01	6.13E-06	1.81E-05	0.00E+00	1.89E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002060	Rubber Tired Loaders	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	2.62E+02	6.95E+02	3.36E+03	1.51E-02	2.15E-01	5.12E-02	3.69E+01	4.15E-04	2.35E-03	0.00E+00	1.36E-03
Construction	Diesel	2030	Annual	Mon-Sun	2270002060	Rubber Tired Loaders	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.61E+02	6.91E+02	4.65E+03	1.90E-02	1.03E-01	5.93E-02	5.14E+01	5.79E-04	2.04E-03	0.00E+00	1.72E-03
Construction	Diesel	2030	Annual	Mon-Sun	2270002060	Rubber Tired Loaders	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.09E+02	2.88E+02	3.08E+03	1.25E-02	6.50E-02	3.71E-02	3.41E+01	3.34E-04	1.31E-03	0.00E+00	1.13E-03
Construction	Diesel	2030	Annual	Mon-Sun	2270002060	Rubber Tired Loaders	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.86E+00	4.92E+00	1.08E+02	4.39E-04	2.28E-03	1.32E-03	1.19E+00	1.20E-05	4.64E-05	0.00E+00	3.96E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002060	Rubber Tired Loaders	D	1000	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.00E-01	5.28E-01	1.42E+01	5.93E-05	3.03E-04	7.51E-04	1.57E-01	1.58E-06	1.08E-05	0.00E+00	5.35E-06
Construction	Diesel	2030	Annual	Mon-Sun	2270002063	Rubber Tired Dozers	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	6.29E-01	2.78E+00	1.64E+01	1.26E-04	1.11E-03	6.45E-04	1.80E-01	2.02E-06	3.54E-05	0.00E+00	1.14E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002063	Rubber Tired Dozers	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.54E+01	6.81E+01	5.65E+02	3.69E-03	1.45E-02	2.01E-02	6.24E+00	7.02E-05	7.62E-04	0.00E+00	3.33E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002063	Rubber Tired Dozers	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.37E+01	1.05E+02	1.26E+03	7.87E-03	3.42E-02	4.05E-02	1.39E+01	1.36E-04	1.56E-03	0.00E+00	7.10E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002063	Rubber Tired Dozers	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.04E+00	9.02E+00	1.63E+02	1.02E-03	4.43E-03	5.37E-03	1.80E+00	1.81E-05	2.05E-04	0.00E+00	9.23E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002063	Rubber Tired Dozers	D	1000	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.38E-01	6.09E-01	1.63E+01	1.07E-04	4.65E-04	1.17E-03	1.80E-01	1.81E-06	2.63E-05	0.00E+00	9.69E-06
Construction	Diesel	2030	Annual	Mon-Sun	2270002066	Tractors/Loaders/Backhoes	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	1.06E+02	2.77E+02	1.28E+03	4.77E-03	8.09E-02	1.20E-02	1.40E+01	1.58E-04	5.05E-04	0.00E+00	4.31E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002066	Tractors/Loaders/Backhoes	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.42E+01	8.97E+01	6.96E+02	2.48E-03	1.51E-02	5.67E-03	7.69E+00	8.65E-05	2.00E-04	0.00E+00	2.24E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002066	Tractors/Loaders/Backhoes	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	5.52E+01	1.45E+02	2.25E+03	8.02E-03	4.68E-02	1.77E-02	2.49E+01	2.80E-04	6.41E-04	0.00E+00	7.24E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002066	Tractors/Loaders/Backhoes	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	9.29E+00	2.43E+01	5.69E+02	2.02E-03	1.18E-02	4.51E-03	6.29E+00	7.07E-05	1.62E-04	0.00E+00	1.83E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002069	Crawler Tractors	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	1.69E+02	4.78E+02	2.64E+03	1.51E-02	1.73E-01	6.46E-02	2.90E+01	3.26E-04	3.33E-03	0.00E+00	1.36E-03
Construction	Diesel	2030	Annual	Mon-Sun	2270002069	Crawler Tractors	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.45E+02	4.11E+02	3.09E+03	1.57E-02	7.25E-02	6.64E-02	3.41E+01	3.84E-04	2.45E-03	0.00E+00	1.42E-03
Construction	Diesel	2030	Annual	Mon-Sun	2270002069	Crawler Tractors	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	9.96E+01	2.82E+02	3.30E+03	1.65E-02	7.70E-02	6.54E-02	3.65E+01	3.58E-04	2.48E-03	0.00E+00	1.49E-03
Construction	Diesel	2030	Annual	Mon-Sun	2270002069	Crawler Tractors	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.23E+00	3.47E+00	7.30E+01	3.65E-04	1.70E-03	1.47E-03	8.06E-01	8.11E-06	5.53E-05	0.00E+00	3.30E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002069	Crawler Tractors	D	1000	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.23E+00	3.47E+00	1.03E+02	5.34E-04	2.46E-03	6.22E-03	1.14E+00	1.15E-05	1.14E-04	0.00E+00	4.82E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002075	Off-Highway Tractors	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	7.70E+01	2.33E+02	1.38E+03	1.00E-02	9.18E-02	5.14E-02	1.52E+01	1.71E-04	2.80E-03	0.00E+00	9.04E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002075	Off-Highway Tractors	D	250	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	7.27E+01	2.20E+02	1.30E+03	7.96E-03	3.25E-02	4.35E-02	1.44E+01	1.62E-04	1.63E-03	0.00E+00	7.19E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002075	Off-Highway Tractors	D	750	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	7.71E+00	2.33E+01	6.00E+02	3.55E-03	1.58E-02	1.86E-02	6.63E+00	6.66E-05	7.05E-04	0.00E+00	3.20E-04
Construction	Diesel	2030	Annual	Mon-Sun	2270002075	Off-Highway Tractors	D	1000	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	8.14E-01	2.46E+00	9.08E+01	5.61E-04	2.48E-03	6.30E-03	1.00E+00	1.01E-05	1.38E-04	0.00E+00	5.06E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002081	Other Construction Equipment	D	175	Construction and Mining Equipment	U	P	NHH	NP	Sacrament	SV	SAC	1.23E+01	2.36E+01	1.14E+02	3.58E-04	6.91E-03	1.02E-03	1.26E+00	1.41E-05	4.31E-05	0.00E+00	3.23E-05
Construction	Diesel	2030	Annual	Mon-Sun	2270002081	Other Construction Equipment	D	500	Construction and Mining Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.86E+01	5.48E+01	6.29E+02	1.89E-03	1.26E-02	4.80E-03	6.95E+00	6.83E-05	1.75E-04	0.00E+00	1.71E-04
Industrial	Diesel	2030	Annual	Mon-Sun	2270003010	Aerial Lifts	D	500	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.43E+00	3.62E+00	3.47E+01	9.14E-05	6.69E-04	3.86E-04	3.84E-01	3.77E-06	1.27E-05	0.00E+00	8.25E-06
Industrial	Diesel	2030	Annual	Mon-Sun	2270003010	Aerial Lifts	D	750	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.76E-01	2.91E-01	5.05E+00	1.33E-05	9.73E-05	5.70E-05	5.59E-02	5.62E-07	1.87E-06	0.00E+00	1.20E-06
Industrial	Diesel	2030	Annual	Mon-Sun	2270003020	Forklifts	D	175	Industrial Equipment	U	P	NHH	NP	Sacrament	SV	SAC	1.44E+01	7.13E+01	1.82E+02	7.82E-04	1.21E-02	1.60E-03	2.00E+00	2.25E-05	6.25E-05	0.00E+00	7.05E-05
Industrial	Diesel	2030	Annual	Mon-Sun	2270003020	Forklifts	D	250	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.43E+01	7.08E+01	2.47E+02	1.03E-03	5.63E-03	1.80E-03	2.73E+00	3.07E-05	6.61E-05	0.00E+00	9.33E-05
Industrial	Diesel	2030	Annual	Mon-Sun	2270003020	Forklifts	D	500	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	6.14E+00	3.03E+01	1.52E+02	6.37E-04	3.28E-03	1.11E-03	1.68E+00	1.65E-05	4.07E-05	0.00E+00	5.75E-05
Industrial	Diesel	2030	Annual	Mon-Sun	2270003030	Sweepers/Scrubbers	D	175	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	9.98E+00	3.34E+01	2.11E+02	8.51E-04	1.36E-02	2.09E-03	2.32E+00	2.61E-05	8.42E-05	0.00E+00	7.68E-05
Industrial	Diesel	2030	Annual	Mon-Sun	2270003030	Sweepers/Scrubbers	D	250	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.60E+00	5.34E+00	3.91E+01	1.52E-04	8.67E-04	3.17E-04	4.32E-01	4.86E-06	1.15E-05	0.00E+00	1.37E-05
Industrial	Diesel	2030	Annual	Mon-Sun	2270003040	Other General Industrial Equipmen	D	175	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.18E+01	4.59E+01	2.00E+02	9.49E-04	1.31E-02	3.09E-03	2.20E+00	2.48E-05	1.37E-04	0.00E+00	8.56E-05
Industrial	Diesel	2030	Annual	Mon-Sun	2270003040	Other General Industrial Equipmen	D	250	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.17E+01	4.57E+01	2.80E+02	1.22E-03	6.30E-03	3.51E-03	3.10E+00	3.49E-05	1.19E-04	0.00E+00	1.10E-04
Industrial	Diesel	2030	Annual	Mon-Sun	2270003040	Other General Industrial Equipmen	D	500	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.17E+01	4.56E+01	5.48E+02	2.37E-03	1.17E-02	6.40E-03	6.05E+00	5.94E-05	2.29E-04	0.00E+00	2.14E-04
Industrial	Diesel	2030	Annual	Mon-Sun	2270003040	Other General Industrial Equipmen	D	750	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.92E+00	1.14E+01	2.25E+02	9.78E-04	4.80E-03	2.68E-03	2.49E+00	2.50E-05	9.50E-05	0.00E+00	8.82E-05
Industrial	Diesel	2030	Annual	Mon-Sun	2270003040	Other General Industrial Equipmen	D	1000	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.78E+00	6.94E+00	1.75E+02	7.82E-04	3.74E-03	9.35E-03	1.94E+00	1.95E-05	1.38E-04	0.00E+00	7.06E-05
Industrial	Diesel	2030	Annual	Mon-Sun	2270003050	Other Material Handling Equipment	D	175	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	5.40E-01	1.95E+00	1.08E+01	5.08E-05	7.08E-04	1.67E-04	1.19E-01	1.34E-06	7.38E-06	0.00E+00	4.58E-06
Industrial	Diesel	2030	Annual	Mon-Sun	2270003050	Other Material Handling Equipment	D	250	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.28E+00	4.64E+00	3.04E+01	1.31E-04	6.81E-04	3.81E-04	3.36E-01	3.78E-06	1.29E-05	0.00E+00	1.18E-05
Industrial	Diesel	2030	Annual	Mon-Sun	2270003050	Other Material Handling Equipment	D	500	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.40E-01	8.68E-01	7.52E+00	3.22E-05	1.60E-04	8.78E-05	8.31E-02	8.15E-07	3.14E-06	0.00E+00	2.90E-06
Industrial	Diesel	2030	Annual	Mon-Sun	2270003050	Other Material Handling Equipment	D	9999	Industrial Equipment	U	N	NHH	NP	Sacrament	SV	SAC	7.20E-02	2.60E-01	8.72E+00	4.06E-05	1.86E-04	4.64E-04	9.64E-02	9.46E-07	6.83E-06	0.00E+00	3.67E-06
Lawn and Gar	Diesel	2030	Annual	Mon-Sun	2270004030	Leaf Blowers/Vacuums	D	250	Lawn and Garden Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.08E-01	3.53E-02	1.60E-01	2.63E-07	2.95E-06	1.44E-06	1.77E-03	1.99E-08	4.32E-08	0.00E+00	2.38E-08
Lawn and Gar	Diesel	2030	Annual	Mon-Sun	2270004065	Chippers/Stump Grinders	D	175	Lawn and Garden Equipment	U	P	NHH	P	Sacrament	SV	SAC	9.14E-01	1.16E+00	6.97E+00	2.00E-05	4.06E-04	7.92E-05	7.67E-02	8.63E-07	3.34E-06	0.00E+00	1.80E-06
Lawn and Gar	Diesel	2030	Annual	Mon-Sun	2270004065	Chippers/Stump Grinders	D	250	Lawn and Garden Equipment	U	N	NHH	P	Sacrament	SV	SAC	2.15E-01	2.74E-01	2.75E+00	7.35E-06	5.49E-05	2.67E-05	3.04E-02	3.43E-07	8.97E-07	0.00E+00	6.63E-07
Lawn and Gar	Diesel	2030	Annual	Mon-Sun	2270004065	Chippers/Stump Grinders	D	500	Lawn and Garden Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.99E+00	2.53E+00	2.83E+01	7.51E-05	5.49E-04	2.59E-04	3.13E-01	3.07E-06	9.09E-06	0.00E+00	6.78E-06
Lawn and Gar	Diesel	2030	Annual	Mon-Sun	2270004065	Chippers/Stump Grinders	D	750	Lawn and Garden Equipment	U	N	NHH	P	Sacrament	SV	SAC	2.26E+00	2.88E+00	7.73E+01	2.06E-04	1.50E-03	7.17E-04	8.55E-01	8.60E-06	2.50E-05	0.00E+00	1.85E-05
Lawn and Gar	Diesel	2030	Annual	Mon-Sun	2270004065	Chippers/Stump Grinders	D	1000	Lawn and Garden Equipment	U	N	NHH	P	Sacrament	SV	SAC	4.30E+00	5.47E+00	2.09E+02	5.68E-04	4.07E-03	1.02E-02	2.32E+00	2.33E-05	1.22E-04	0.00E+00	5.12E-05
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005015	Agricultural Tractors	D	175	Agricultural Equipment	U	P	NHH	NP	Sacrament	SV	SAC	5.90E+02	7.69E+02	4.36E+03	1.32E-02	2.55E-01	5.43E-02	4.79E+01	5.39E-04	2.26E-03	0.00E+00	1.19E-03
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005015	Agricultural Tractors	D	250	Agricultural Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.81E+02	4.97E+02	4.00E+03	1.12E-02	8.02E-02	4.18E-02	4.42E+01	4.98E-04	1.38E-03	0.00E+00	1.01E-03
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005015	Agricultural Tractors	D	500	Agricultural Equipment	U	N	NHH	NP	Sacrament	SV	SAC	7.57E+01	9.87E+01	1.30E+03	3.62E-03	2.54E-02	1.28E-02	1.44E+01	1.41E-04	4.41E-04	0.00E+00	3.26E-04
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005020	Combines	D	175	Agricultural Equipment	U	P	NHH	NP	Sacrament	SV	SAC	3.28E+01	1.35E+01	7.64E+01	1.48E-04	4.15E-03	8.89E-04	8.42E-01	9.47E-06	3.04E-05	0.00E+00	1.34E-05
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005020	Combines	D	250	Agricultural Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.51E+01	1.44E+01	1.14E+02	2.04E-04	2.13E-03	1.12E-03	1.27E+00	1.43E-05	3.29E-05	0.00E+00	1.84E-05
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005020	Combines	D	500	Agricultural Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.40E+00	5.77E-01	6.29E+00	1.11E-05	1.16E-04	5.81E-05	6.96E-02	6.83E-07	1.79E-06	0.00E+00	9.97E-07
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005035	Sprayers	D	175	Agricultural Equipment	U	P	NHH	NP	Sacrament	SV	SAC	5.90E+00	1.46E+00	6.26E+00	1.08E-05	3.35E-04	7.18E-05	6.89E-02	7.76E-07	2.35E-06	0.00E+00	9.77E-07
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005035	Sprayers	D	250	Agricultural Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.68E+00	9.10E-01	6.38E+00	1.02E-05	1.17E-04	6.14E-05	7.07E-02	7.95E-07	1.77E-06	0.00E+00	9.16E-07
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005035	Sprayers	D	500	Agricultural Equipment	U	N	NHH	NP	Sacrament	SV	SAC	6.28E-01	1.55E-01	1.19E+00	1.86E-06	2.17E-05	1.09E-05	1.32E-02	1.29E-07	3.25E-07	0.00E+00	1.68E-07
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005040	Tillers	D	250	Agricultural Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.09E-02	9.88E-03	1.07E-01	1.98E-07	2.00E-06	1.05E-06	1.18E-03	1.33E-08	3.12E-08	0.00E+00	1.78E-08
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005040	Tillers	D	500	Agricultural Equipment	U	N	NHH	NP	Sacrament	SV	SAC	6.28E-02	2.96E-02	5.72E-01	1.04E-06	1.06E-05	5.31E-06	6.33E-03	6.21E-08	1.65E-07	0.00E+00	9.43E-08
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005045	Swathers	D	175	Agricultural Equipment	U	P	NHH	NP	Sacrament	SV	SAC	1.42E+00	4.30E-01	2.02E+00	3.63E-06	1.08E-04	2.32E-05	2.22E-02	2.50E-07	7.71E-07	0.00E+00	3.27E-07
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005055	Other Agricultural Equipment	D	175	Agricultural Equipment	U	P	NHH	NP	Sacrament	SV	SAC	3.04E+00	3.17E+00	1.34E+01	3.64E-05	7.66E-04	1.64E-04	1.47E-01	1.65E-06	6.53E-06	0.00E+00	3.29E-06
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005055	Other Agricultural Equipment	D	250	Agricultural Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.04E+00	3.17E+00	1.92E+01	4.83E-05	3.78E-04	1.98E-04	2.13E-01	2.40E-06	6.35E-06	0.00E+00	4.36E-06
agricultural of	Diesel	2030	Annual	Mon-Sun	2270005055	Other Agricultural Equipment	D	500	Agricultural Equipment	U	N	NHH	NP	Sacrament	SV	SAC	7.33E-01	7.66E-01	6.68E+00	1.67E-05	1.28E-04	6.46E-05	7.39E-02	7.25E-07	2.17E-06	0.00E+00	1.50E-06
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006005	Generator Sets	D	175	Light Commercial Equipment	U	P	NHH	P	Sacrament	SV	SAC	1.11E+01	1.02E+01	6.61E+01	1.84E-04	3.76E-03	9.57E-04	7.27E-01	8.18E-06	3.75E-05	0.00E+00	1.66E-05
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006005	Generator Sets	D	250	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	6.19E+00	5.73E+00	5.49E+01	1.37E-04	1.07E-03	6.47E-04	6.08E-01	6.84E-06	2.00E-05	0.00E+00	1.24E-05
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006005	Generator Sets	D	500	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.38E+01	1.27E+01	1.94E+02	4.79E-04	3.70E-03	2.13E-03	2.14E+00	2.10E-05	6.92E-05	0.00E+00	4.32E-05
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006005	Generator Sets	D	750	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	8.55E+00	7.91E+00	1.94E+02	4.82E-04	3.71E-03	2.17E-03	2.15E+00	2.16E-05	6.99E-05	0.00E+00	4.35E-05
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006005	Generator Sets	D	9999	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	2.23E+00	2.06E+00	9.75E+01	2.68E-04	1.86E-03	4.84E-03	1.08E+00	1.08E-05	6.29E-05	0.00E+00	2.42E-05
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006010	Pumps	D	175	Light Commercial Equipment	U	P	NHH	P	Sacrament	SV	SAC	1.15E+01	1.26E+01	8.04E+01	2.44E-04	4.65E-03	1.18E-03	8.85E-01	9.95E-06	4.82E-05	0.00E+00	2.20E-05
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006010	Pumps	D	250	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	8.26E+00	9.10E+00	8.28E+01	2.25E-04	1.64E-03	9.90E-04	9.16E-01	1.03E-05	3.13E-05	0.00E+00	2.03E-05
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006010	Pumps	D	500	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.63E-01	1.80E-01	2.80E+00	7.55E-06	5.41E-05	3.12E-05	3.10E-02	3.04E-07	1.04E-06	0.00E+00	6.81E-07
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006010	Pumps	D	750	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	2.72E-02	2.99E-02	7.72E-01	2.08E-06	1.49E-05	8.74E-06	8.54E-03	8.58E-08	2.89E-07	0.00E+00	1.88E-07
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006010	Pumps	D	9999	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	5.97E-01	6.59E-01	4.03E+01	1.20E-04	7.80E-04	2.02E-03	4.46E-01	4.48E-06	2.70E-05	0.00E+00	1.08E-05
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006015	Air Compressors	D	175	Light Commercial Equipment	U	P	NHH	P	Sacrament	SV	SAC	6.41E+00	1.43E+01	5.75E+01	2.33E-04	3.57E-03	8.76E-04	6.32E-01	7.11E-06	3.80E-05	0.00E+00	2.10E-05
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006015	Air Compressors	D	250	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	9.02E+00	2.01E+01	1.19E+02	4.38E-04	2.54E-03	1.47E-03	1.32E+00	1.48E-05	4.90E-05	0.00E+00	3.95E-05
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006015	Air Compressors	D	500	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.18E+01	2.62E+01	2.75E+02	1.00E-03	5.61E-03	3.16E-03	3.04E+00	2.98E-05	1.11E-04	0.00E+00	9.05E-05
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006015	Air Compressors	D	750	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	4.40E+00	9.81E+00	1.59E+02	5.81E-04	3.24E-03	1.86E-03	1.76E+00	1.77E-05	6.46E-05	0.00E+00	5.24E-05
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006015	Air Compressors	D	1000	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.09E-01	2.42E-01	5.32E+00	2.01E-05	1.09E-04	2.77E-04	5.89E-02	5.92E-07	3.97E-06	0.00E+00	1.81E-06
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006025	Welders	D	175	Light Commercial Equipment	U	P	NHH	P	Sacrament	SV	SAC	4.89E-01	8.60E-01	3.84E+00	1.44E-05	2.33E-04	5.81E-05	4.22E-02	4.75E-07	2.50E-06	0.00E+00	1.30E-06
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006025	Welders	D	250	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.09E-01	1.91E-01	1.03E+00	3.47E-06	2.14E-05	1.26E-05	1.14E-02	1.28E-07	4.16E-07	0.00E+00	3.14E-07
Light Commer	Diesel	2030	Annual	Mon-Sun	2270006025	Welders	D	500	Light Commercial Equipment	U	N	NHH	P	Sacrament	SV	SAC	2.72E-01	4.78E-01	3.62E+00	1.21E-05	7.26E-05	4.14E-05	4.00E-02	3.93E-07	1.44E-06	0.00E+00	1.10E-06
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008015	A/C Tug Narrow Body	D	250	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.64E+01	2.82E+01	2.28E+02	1.41E-03	5.46E-03	1.01E-02	2.52E+00	2.83E-05	3.53E-04	0.00E+00	1.27E-04
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008020	A/C Tug Wide Body	D	500	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	4.07E+00	8.49E+00	1.28E+02	7.74E-04	3.22E-03	5.01E-03	1.41E+00	1.39E-05	1.83E-04	0.00E+00	6.98E-05
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008025	Air Conditioner	D	175	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	2.62E+00	5.82E+00	3.84E+01	9.04E-05	2.24E-03	2.08E-04	4.22E-01	4.75E-06	7.70E-06	0.00E+00	8.16E-06
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008025	Air Conditioner	D	250	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	2.07E-01	4.59E-01	4.31E+00	1.02E-05	8.59E-05	2.28E-05	4.76E-02	5.36E-07	8.30E-07	0.00E+00	9.16E-07
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008025	Air Conditioner	D	500	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.38E-01	3.06E-01	5.74E+00	1.35E-05	1.12E-04	3.04E-05	6.35E-02	7.15E-07	1.11E-06	0.00E+00	1.22E-06
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008030	Air Start Unit	D	175	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	6.90E-02	6.31E-02	4.34E-01	1.04E-06	2.45E-05	4.59E-06	4.78E-03	4.69E-08	1.82E-07	0.00E+00	9.40E-08
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008030	Air Start Unit	D	250	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	2.07E-01	1.89E-01	1.85E+00	4.15E-06	3.58E-05	1.69E-05	2.05E-02	2.01E-07	5.49E-07	0.00E+00	3.74E-07
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008030	Air Start Unit	D	500	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	8.15E+00	7.45E+00	1.46E+02	3.24E-04	2.76E-03	1.27E-03	1.61E+00	1.58E-05	4.25E-05	0.00E+00	2.92E-05
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008030	Air Start Unit	D	750	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	1.17E+00	1.07E+00	3.15E+01	7.01E-05	5.97E-04	2.77E-04	3.48E-01	3.42E-06	9.25E-06	0.00E+00	6.33E-06
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008065	Forklift	D	175	Airport Ground Support Equipment	U	P	NHH	NP	Sacrament	SV	SAC	2.69E+00	5.49E+00	1.46E+01	5.02E-05	8.90E-04	1.62E-04	1.60E-01	1.81E-06	7.10E-06	0.00E+00	4.53E-06
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008070	Fuel Truck	D	250	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.45E+00	2.49E+00	6.64E+00	1.99E-05	1.36E-04	6.32E-05	7.35E-02	8.26E-07	2.18E-06	0.00E+00	1.80E-06
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008075	Ground Power Unit	D	175	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	2.16E+01	5.74E+01	4.00E+02	1.43E-03	2.50E-02	3.85E-03	4.40E+00	4.95E-05	1.67E-04	0.00E+00	1.29E-04
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008085	Lav Truck	D	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	3.45E-01	1.24E+00	2.96E+00	1.21E-05	1.90E-04	3.32E-05	3.25E-02	3.65E-07	1.50E-06	0.00E+00	1.09E-06
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008100	Other GSE	D	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	6.42E+00	1.62E+01	6.51E+01	3.52E-04	4.13E-03	1.62E-03	7.14E-01	9.24E-06	8.33E-05	0.00E+00	3.18E-05
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008103	Generator	D	175	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	5.66E+00	2.53E+01	1.78E+02	7.63E-04	1.16E-02	2.01E-03	1.96E+00	2.20E-05	9.12E-05	0.00E+00	6.88E-05
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008103	Generator	D	250	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	5.87E+00	2.62E+01	2.66E+02	1.08E-03	5.94E-03	2.60E-03	2.94E+00	3.30E-05	9.35E-05	0.00E+00	9.78E-05
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008103	Generator	D	500	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	6.21E-01	2.78E+00	4.46E+01	1.81E-04	9.47E-04	4.14E-04	4.93E-01	5.55E-06	1.55E-05	0.00E+00	1.64E-05
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008103	Generator	D	750	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	8.28E-01	3.71E+00	9.60E+01	3.91E-04	2.04E-03	9.03E-04	1.06E+00	1.19E-05	3.35E-05	0.00E+00	3.52E-05
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008105	Service Truck	D	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	2.28E+00	3.16E+00	6.24E+00	1.81E-05	3.65E-04	6.79E-05	6.87E-02	7.73E-07	2.91E-06	0.00E+00	1.64E-06
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008106	Catering Truck	D	250	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	5.52E-01	5.61E-01	3.96E+00	7.69E-06	7.59E-05	2.33E-05	4.38E-02	4.93E-07	7.83E-07	0.00E+00	6.94E-07
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008111	Hydrant Truck	D	175	Airport Ground Support Equipment	U	N	NHH	NP	Sacrament	SV	SAC	1.10E+00	1.89E+00	1.32E+01	4.64E-05	7.93E-04	1.78E-04	1.45E-01	1.63E-06	7.82E-06	0.00E+00	4.18E-06
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008115	Compressor (GSE)	D	250	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	6.90E-02	1.54E-01	8.13E-01	2.73E-06	1.72E-05	7.81E-06	8.99E-03	1.01E-07	2.73E-07	0.00E+00	2.46E-07
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008115	Compressor (GSE)	D	500	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	2.76E-01	6.16E-01	6.70E+00	2.24E-05	1.36E-04	6.11E-05	7.41E-02	7.28E-07	2.22E-06	0.00E+00	2.02E-06
Airport Groun	Diesel	2030	Annual	Mon-Sun	2270008115	Compressor (GSE)	D	750	Airport Ground Support Equipment	U	N	NHH	P	Sacrament	SV	SAC	8.97E-01	2.00E+00	3.22E+01	1.08E-04	6.54E-04	2.97E-04	3.56E-01	3.58E-06	1.07E-05	0.00E+00	9.73E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010005	Compressors (Workover)	D	175	Oil Drilling	U	P	NHH	P	Sacrament	SV	SAC	4.63E-01	1.56E+00	8.18E+00	3.49E-05	5.27E-04	1.05E-04	8.99E-02	1.01E-06	4.76E-06	0.00E+00	3.15E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010005	Compressors (Workover)	D	250	Oil Drilling	U	N	NHH	P	Sacrament	SV	SAC	1.93E-01	6.51E-01	4.76E+00	1.91E-05	1.05E-04	5.18E-05	5.26E-02	5.92E-07	1.83E-06	0.00E+00	1.72E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010005	Compressors (Workover)	D	500	Oil Drilling	U	N	NHH	P	Sacrament	SV	SAC	1.04E+00	3.51E+00	4.91E+01	1.96E-04	1.03E-03	5.03E-04	5.43E-01	5.33E-06	1.86E-05	0.00E+00	1.77E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010005	Compressors (Workover)	D	750	Oil Drilling	U	N	NHH	P	Sacrament	SV	SAC	1.12E+00	3.78E+00	5.40E+01	2.16E-04	1.13E-03	5.60E-04	5.96E-01	5.85E-06	2.06E-05	0.00E+00	1.95E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010005	Compressors (Workover)	D	1000	Oil Drilling	U	N	NHH	P	Sacrament	SV	SAC	3.86E-02	1.30E-01	3.34E+00	1.36E-05	7.03E-05	1.74E-04	3.69E-02	3.63E-07	2.35E-06	0.00E+00	1.23E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010010	Pump (Workover)	D	175	Oil Drilling	U	P	NHH	P	Sacrament	SV	SAC	1.85E+00	6.25E+00	3.10E+01	1.32E-04	2.00E-03	3.98E-04	3.41E-01	3.84E-06	1.81E-05	0.00E+00	1.20E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010010	Pump (Workover)	D	250	Oil Drilling	U	N	NHH	P	Sacrament	SV	SAC	4.21E+00	1.42E+01	9.95E+01	3.99E-04	2.20E-03	1.08E-03	1.10E+00	1.24E-05	3.82E-05	0.00E+00	3.60E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010010	Pump (Workover)	D	500	Oil Drilling	U	N	NHH	P	Sacrament	SV	SAC	7.64E+00	2.58E+01	3.33E+02	1.33E-03	7.00E-03	3.41E-03	3.68E+00	3.61E-05	1.26E-04	0.00E+00	1.20E-04
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010010	Pump (Workover)	D	9999	Oil Drilling	U	N	NHH	P	Sacrament	SV	SAC	2.51E+00	8.47E+00	4.45E+02	1.90E-03	9.37E-03	2.31E-02	4.92E+00	4.83E-05	3.14E-04	0.00E+00	1.71E-04
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010015	Generator (Workover)	D	175	Oil Drilling	U	P	NHH	P	Sacrament	SV	SAC	1.24E+00	4.17E+00	2.07E+01	8.83E-05	1.33E-03	2.66E-04	2.27E-01	2.56E-06	1.20E-05	0.00E+00	7.97E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010015	Generator (Workover)	D	250	Oil Drilling	U	N	NHH	P	Sacrament	SV	SAC	3.47E-01	1.17E+00	7.34E+00	2.94E-05	1.62E-04	7.98E-05	8.11E-02	9.13E-07	2.82E-06	0.00E+00	2.66E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010015	Generator (Workover)	D	500	Oil Drilling	U	N	NHH	P	Sacrament	SV	SAC	4.25E-01	1.43E+00	1.77E+01	7.06E-05	3.72E-04	1.81E-04	1.95E-01	1.92E-06	6.69E-06	0.00E+00	6.37E-06

Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010015	Generator (Workover)	D	750	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	5.79E-01	1.95E+00	2.84E+01	1.14E-04	5.98E-04	2.95E-04	3.14E-01	3.09E-06	1.08E-05	0.00E+00	1.03E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010015	Generator (Workover)	D	9999	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	7.72E-02	2.61E-01	1.20E+01	5.09E-05	2.52E-04	6.21E-04	1.32E-01	1.30E-06	8.42E-06	0.00E+00	4.59E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010020	Swivel	D	175	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.97E+00	6.65E+00	3.00E+01	1.28E-04	1.93E-03	3.85E-04	3.30E-01	3.71E-06	1.75E-05	0.00E+00	1.16E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010020	Swivel	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	4.25E-01	1.43E+00	1.05E+01	4.20E-05	2.31E-04	1.14E-04	1.16E-01	1.30E-06	4.03E-06	0.00E+00	3.79E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010020	Swivel	D	500	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	1.16E-01	2.70E-02	3.58E-01	5.56E-07	6.52E-06	3.29E-06	3.96E-03	3.89E-08	9.98E-08	0.00E+00	5.02E-08
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010030	Other Workover Equipment	D	175	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.93E+00	6.51E+00	3.37E+01	1.44E-04	2.17E-03	4.32E-04	3.70E-01	4.16E-06	1.96E-05	0.00E+00	1.30E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010030	Other Workover Equipment	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	6.56E-01	2.22E+00	1.62E+01	6.50E-05	3.57E-04	1.76E-04	1.79E-01	2.01E-06	6.22E-06	0.00E+00	5.86E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010030	Other Workover Equipment	D	750	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	3.05E+00	1.03E+01	1.44E+02	5.77E-04	3.03E-03	1.50E-03	1.59E+00	1.56E-05	5.49E-05	0.00E+00	5.20E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010030	Other Workover Equipment	D	1000	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	7.72E-01	2.60E+00	8.70E+01	3.55E-04	1.83E-03	4.52E-03	9.62E-01	9.44E-06	6.13E-05	0.00E+00	3.20E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010035	Lift (Drilling)	D	175	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	7.72E-02	2.60E-01	1.31E+00	5.61E-06	8.46E-05	1.69E-05	1.44E-02	1.62E-07	7.65E-07	0.00E+00	5.06E-07
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010035	Lift (Drilling)	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	3.86E-01	1.30E+00	9.97E+00	4.00E-05	2.20E-04	1.08E-04	1.10E-01	1.24E-06	3.83E-06	0.00E+00	3.61E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010035	Lift (Drilling)	D	500	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	2.66E+00	8.98E+00	1.17E+02	4.68E-04	2.46E-03	1.20E-03	1.29E+00	1.27E-05	4.43E-05	0.00E+00	4.22E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010035	Lift (Drilling)	D	750	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	7.72E-02	2.61E-01	3.38E+00	1.35E-05	7.12E-05	3.51E-05	3.74E-02	3.67E-07	1.29E-06	0.00E+00	1.22E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010040	Pump (Drilling)	D	175	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.62E+00	5.47E+00	2.70E+01	1.15E-04	1.74E-03	3.46E-04	2.96E-01	3.33E-06	1.57E-05	0.00E+00	1.04E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010040	Pump (Drilling)	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	2.51E+00	8.47E+00	6.62E+01	2.66E-04	1.46E-03	7.21E-04	7.32E-01	8.24E-06	2.55E-05	0.00E+00	2.40E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010040	Pump (Drilling)	D	500	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	5.48E+00	1.85E+01	2.46E+02	9.82E-04	5.17E-03	2.52E-03	2.72E+00	3.06E-05	9.31E-05	0.00E+00	8.86E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010040	Pump (Drilling)	D	750	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	5.25E+00	1.77E+01	3.54E+02	1.41E-03	7.44E-03	3.67E-03	3.91E+00	3.84E-05	1.35E-04	0.00E+00	1.28E-04
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010040	Pump (Drilling)	D	9999	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	5.40E-01	1.82E+00	6.55E+01	2.79E-04	1.38E-03	3.40E-03	7.24E-01	7.11E-06	4.61E-05	0.00E+00	2.51E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010045	Generator (Drilling)	D	175	Oil Drilling	U	P	NHH	P	Sacramento	SV	SAC	1.20E+00	4.04E+00	1.88E+01	8.02E-05	1.21E-03	2.41E-04	2.06E-01	2.32E-06	1.09E-05	0.00E+00	7.24E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010045	Generator (Drilling)	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	8.49E-01	2.87E+00	1.87E+01	7.51E-05	4.13E-04	2.04E-04	2.07E-01	2.33E-06	7.19E-06	0.00E+00	6.78E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010045	Generator (Drilling)	D	500	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	4.25E-01	2.48E+00	3.13E+01	1.37E-04	6.73E-04	3.24E-04	3.46E-01	3.39E-06	1.21E-05	0.00E+00	1.24E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010045	Generator (Drilling)	D	750	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	4.63E-01	1.56E+00	2.06E+01	8.25E-05	4.34E-04	2.14E-04	2.28E-01	2.24E-06	7.86E-06	0.00E+00	7.44E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010055	Drill Rig	D	175	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	6.91E+00	1.37E+01	9.44E+01	1.52E-04	5.15E-03	4.79E-04	1.04E+00	1.17E-05	1.68E-05	0.00E+00	1.37E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010055	Drill Rig	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	5.10E+00	1.01E+01	9.25E+01	1.49E-04	1.73E-03	4.71E-04	1.02E+00	1.15E-05	1.63E-05	0.00E+00	1.35E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010055	Drill Rig	D	500	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	1.39E+01	2.76E+01	4.57E+02	7.39E-04	8.46E-03	2.33E-03	5.06E+00	4.97E-05	8.05E-05	0.00E+00	6.67E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010055	Drill Rig	D	750	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	3.55E+00	7.06E+00	1.81E+02	2.93E-04	3.35E-03	9.25E-04	2.01E+00	2.02E-05	3.19E-05	0.00E+00	2.64E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010055	Drill Rig	D	1000	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	1.43E+01	2.84E+01	1.85E+03	2.98E-03	3.42E-02	8.21E-02	2.04E+01	2.06E-04	6.63E-04	0.00E+00	2.69E-04
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010057	Drill Rig (Mobile)	D	175	Oil Drilling	U	N	NHH	NP	Sacramento	SV	SAC	7.72E-02	6.00E-01	3.86E+00	3.33E-05	2.67E-04	1.73E-04	4.23E-02	4.76E-07	9.64E-06	0.00E+00	3.00E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010057	Drill Rig (Mobile)	D	250	Oil Drilling	U	N	NHH	NP	Sacramento	SV	SAC	3.86E-02	3.00E-01	2.55E+00	1.86E-05	6.91E-05	1.05E-04	2.82E-02	3.17E-07	4.07E-06	0.00E+00	1.68E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010057	Drill Rig (Mobile)	D	500	Oil Drilling	U	N	NHH	NP	Sacramento	SV	SAC	1.16E-01	9.00E-01	1.27E+01	8.85E-05	3.80E-04	4.71E-04	1.40E-01	1.37E-06	1.85E-05	0.00E+00	7.99E-06
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010057	Drill Rig (Mobile)	D	750	Oil Drilling	U	N	NHH	NP	Sacramento	SV	SAC	7.72E-02	6.00E-01	1.67E+01	1.17E-04	5.00E-04	6.33E-04	1.84E-01	1.85E-06	2.46E-05	0.00E+00	1.05E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010057	Drill Rig (Mobile)	D	1000	Oil Drilling	U	N	NHH	NP	Sacramento	SV	SAC	1.16E-01	8.99E-01	3.78E+01	2.77E-04	1.19E-03	2.88E-03	4.17E-01	4.19E-06	6.96E-05	0.00E+00	2.50E-05
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010058	Workover Rig (Mobile)	D	175	Oil Drilling	U	N	NHH	NP	Sacramento	SV	SAC	3.17E+00	2.46E+01	1.58E+02	1.36E-03	1.09E-02	7.10E-03	1.73E+00	1.95E-05	3.95E-04	0.00E+00	1.23E-04
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010058	Workover Rig (Mobile)	D	250	Oil Drilling	U	N	NHH	NP	Sacramento	SV	SAC	2.74E+00	2.13E+01	1.81E+02	1.32E-03	4.90E-03	7.43E-03	2.00E+00	2.25E-05	2.89E-04	0.00E+00	1.19E-04
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010058	Workover Rig (Mobile)	D	500	Oil Drilling	U	N	NHH	NP	Sacramento	SV	SAC	6.06E+00	4.71E+01	6.64E+02	4.63E-03	1.99E-02	2.47E-02	7.32E+00	7.19E-05	9.69E-04	0.00E+00	4.18E-04
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010058	Workover Rig (Mobile)	D	750	Oil Drilling	U	N	NHH	NP	Sacramento	SV	SAC	3.17E+00	2.46E+01	6.85E+02	4.79E-03	2.05E-02	2.59E-02	7.56E+00	7.60E-05	1.01E-03	0.00E+00	4.33E-04
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010058	Workover Rig (Mobile)	D	1000	Oil Drilling	U	N	NHH	NP	Sacramento	SV	SAC	5.33E+00	4.14E+01	1.74E+03	1.28E-02	5.47E-02	1.32E-01	1.92E+01	1.93E-04	3.20E-03	0.00E+00	1.15E-03
Oil Drilling	Diesel	2030	Annual	Mon-Sun	2270010060	Pressure Washers	D	250	Oil Drilling	U	N	NHH	P	Sacramento	SV	SAC	3.86E-02	1.30E-01	8.44E-01	1.63E-06	1.62E-05	4.37E-06	9.34E-03	1.05E-07	1.55E-07	0.00E+00	1.47E-07
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011005	A/C unit	D	250	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	1.42E-01	1.17E-01	8.26E-01	1.87E-06	1.59E-05	8.40E-06	9.14E-03	1.03E-07	2.67E-07	0.00E+00	1.69E-07
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011005	A/C unit	D	500	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	5.61E-02	4.62E-02	4.94E-01	1.11E-06	9.36E-06	4.74E-06	5.47E-03	5.37E-08	1.57E-07	0.00E+00	1.00E-07
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011010	Aircraft Support	D	175	Military Tactical Support Equip	U	P	NHH	P	Sacramento	SV	SAC	1.32E-01	1.09E-01	5.20E-01	1.28E-06	2.93E-05	6.24E-06	5.72E-03	6.44E-08	2.45E-07	0.00E+00	1.15E-07
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011015	Cart	D	175	Military Tactical Support Equip	U	P	NHH	P	Sacramento	SV	SAC	9.90E-03	8.15E-03	4.26E-02	1.05E-07	2.40E-06	5.11E-07	4.69E-04	5.27E-09	2.01E-08	0.00E+00	9.44E-09
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011015	Cart	D	250	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	3.30E-02	2.72E-02	1.82E-01	4.12E-07	3.51E-06	1.85E-06	2.01E-03	2.26E-08	5.87E-08	0.00E+00	3.72E-08
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011025	Compressor (Military)	D	175	Military Tactical Support Equip	U	P	NHH	P	Sacramento	SV	SAC	1.32E-02	1.09E-02	6.20E-02	1.52E-07	3.49E-06	7.44E-07	6.82E-04	7.68E-09	2.92E-08	0.00E+00	1.37E-08
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011025	Compressor (Military)	D	250	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	2.64E-02	2.17E-02	1.65E-01	3.73E-07	3.18E-06	1.67E-06	1.82E-03	2.05E-08	5.32E-08	0.00E+00	3.37E-08
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011025	Compressor (Military)	D	500	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	9.24E-02	7.61E-02	9.64E-01	2.17E-06	1.83E-05	9.25E-06	1.07E-02	1.05E-07	3.07E-07	0.00E+00	1.95E-07
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011030	Crane	D	175	Military Tactical Support Equip	U	P	NHH	P	Sacramento	SV	SAC	9.90E-03	8.15E-03	3.92E-02	6.43E-08	2.14E-06	2.06E-07	4.32E-04	4.86E-09	7.03E-09	0.00E+00	5.80E-09
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011030	Crane	D	250	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	6.60E-03	5.43E-03	3.95E-02	6.47E-08	7.39E-07	2.02E-07	4.37E-04	4.92E-09	6.97E-09	0.00E+00	5.84E-09
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011050	Generator (Military)	D	175	Military Tactical Support Equip	U	P	NHH	P	Sacramento	SV	SAC	1.79E+00	1.47E+00	7.38E+00	1.81E-05	4.16E-04	8.86E-05	8.12E-02	9.14E-07	3.48E-06	0.00E+00	1.64E-06
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011050	Generator (Military)	D	250	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	4.72E-01	3.89E-01	2.94E+00	6.67E-06	5.68E-05	2.99E-05	3.26E-02	3.66E-07	9.51E-07	0.00E+00	6.02E-07
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011050	Generator (Military)	D	500	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	1.91E-01	1.58E-01	1.86E+00	4.18E-06	3.53E-05	1.79E-05	2.06E-02	2.02E-07	5.93E-07	0.00E+00	3.78E-07
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011050	Generator (Military)	D	750	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	6.60E-03	5.42E-03	9.86E-02	2.22E-07	1.87E-06	9.58E-07	1.09E-03	1.10E-08	3.16E-08	0.00E+00	2.00E-08
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011075	Pressure Washers	D	175	Military Tactical Support Equip	U	P	NHH	P	Sacramento	SV	SAC	9.90E-03	8.15E-03	4.23E-02	1.04E-07	2.38E-06	5.08E-07	4.66E-04	5.24E-09	1.99E-08	0.00E+00	9.38E-09
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011085	Start Cart	D	500	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	3.30E-03	2.72E-03	2.61E-02	5.87E-08	4.95E-07	2.51E-07	2.89E-04	2.84E-09	8.31E-09	0.00E+00	5.29E-09
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011090	Test Stand	D	175	Military Tactical Support Equip	U	P	NHH	P	Sacramento	SV	SAC	6.60E-03	5.43E-03	2.64E-02	6.48E-08	1.48E-06	3.16E-07	2.90E-04	3.26E-09	1.24E-08	0.00E+00	5.84E-09
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011090	Test Stand	D	250	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	1.02E-01	8.42E-02	5.64E-01	1.28E-06	1.09E-05	5.73E-06	6.24E-03	7.02E-08	1.82E-07	0.00E+00	1.15E-07
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011090	Test Stand	D	500	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	3.96E-02	3.26E-02	3.80E-01	8.53E-07	7.20E-06	3.64E-06	4.20E-03	4.13E-08	1.21E-07	0.00E+00	7.70E-08
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011105	Other tactical support equipment	D	175	Military Tactical Support Equip	U	P	NHH	P	Sacramento	SV	SAC	5.28E-02	4.35E-02	2.20E-01	5.40E-07	1.24E-05	2.64E-06	2.42E-03	2.72E-08	1.04E-07	0.00E+00	4.87E-08
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011105	Other tactical support equipment	D	250	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	1.98E-02	1.63E-02	1.21E-01	2.74E-07	2.33E-06	1.23E-06	1.34E-03	1.50E-08	3.90E-08	0.00E+00	2.47E-08
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011105	Other tactical support equipment	D	500	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	6.60E-03	5.43E-03	4.98E-02	1.12E-07	9.44E-07	4.78E-07	5.52E-04	5.41E-09	1.59E-08	0.00E+00	1.01E-08
Military Tactic	Diesel	2030	Annual	Mon-Sun	2270011105	Other tactical support equipment	D	750	Military Tactical Support Equip	U	N	NHH	P	Sacramento	SV	SAC	3.30E-03	2.72E-03	5.78E-02	1.30E-07	1.09E-06	5.61E-07	6.39E-04	6.43E-09	1.85E-08	0.00E+00	1.17E-08
Other Portabl	Diesel	2030	Annual	Mon-Sun	2270013010	Misc Portable Equipment	D	175	Other Portable Equipment	U	P	NHH	P	Sacramento	SV	SAC	6.42E+00	8.50E+00	3.66E+01	1.12E-04	2.15E-03	4.55E-04	4.02E-01	4.53E-06	1.97E-05	0.00E+00	1.01E-05
Other Portabl	Diesel	2030	Annual	Mon-Sun	2270013010	Misc Portable Equipment	D	250	Other Portable Equipment	U	N	NHH	P	Sacramento	SV	SAC	1.37E+00	1.82E+00	1.31E+01	3.71E-05	2.63E-04	1.38E-04	1.44E-01	1.62E-06	4.63E-06	0.00E+00	3.34E-06
Other Portabl	Diesel	2030	Annual	Mon-Sun	2270013010	Misc Portable Equipment	D	500	Other Portable Equipment	U	N	NHH	P	Sacramento	SV	SAC	5.04E+00	6.68E+00	8.93E+01	2.52E-04	1.75E-03	8.86E-04	9.88E-01	9.70E-06	3.12E-05	0.00E+00	2.28E-05
Other Portabl	Diesel	2030	Annual	Mon-Sun	2270013010	Misc Portable Equipment	D	750	Other Portable Equipment	U	N	NHH	P	Sacramento	SV	SAC	2.29E+00	3.03E+00	5.77E+01	1.63E-04	1.13E-03	5.80E-04	6.39E-01	6.42E-06	2.03E-05	0.00E+00	1.47E-05
Other Portabl	Diesel	2030	Annual	Mon-Sun	2270013010	Misc Portable Equipment	D	1000	Other Portable Equipment	U	N	NHH	P	Sacramento	SV	SAC	9.17E-01	1.21E+00	3.08E+01	8.92E-05	6.03E-04	1.53E-03	3.41E-01	3.43E-06	1.93E-05	0.00E+00	8.05E-06
Entertainmen	Diesel	2030	Annual	Mon-Sun	2270014005	Generator (Entertainment)	D	175	Entertainment Equipment	U	N	NHH	P	Sacramento	SV	SAC	2.65E+00	2.45E+00	1.66E+01	4.30E-05	9.44E-04	2.01E-04	1.83E-01	2.06E-06	8.08E-06	0.00E+00	3.88E-06
Entertainmen	Diesel	2030	Annual	Mon-Sun	2270014005	Generator (Entertainment)	D	250	Entertainment Equipment	U	N	NHH	P	Sacramento	SV	SAC	4.09E+00	3.78E+00	3.37E+01	8.05E-05	6.56E-04	3.46E-04	3.73E-01	4.20E-06	1.11E-05	0.00E+00	7.26E-06
Entertainmen	Diesel	2030	Annual	Mon-Sun	2270014005	Generator (Entertainment)	D	500	Entertainment Equipment	U	N	NHH	P	Sacramento	SV	SAC	6.34E+00	5.87E+00	7.32E+01	1.73E-04	1.40E-03	7.08E-04	8.10E-01	7.95E-06	2.38E-05	0.00E+00	1.56E-05
Entertainmen	Diesel	2030	Annual	Mon-Sun	2270014005	Generator (Entertainment)	D	750	Entertainment Equipment	U	N	NHH	P	Sacramento	SV	SAC	1.11E+00	1.03E+00	2.52E+01	5.98E-05	4.81E-04	2.47E-04	2.79E-01	2.80E-06	8.25E-06	0.00E+00	5.39E-06
Entertainmen	Diesel	2030	Annual	Mon-Sun	2270014005	Generator (Entertainment)	D	9999	Entertainment Equipment	U	N	NHH	P	Sacramento	SV	SAC	1.63E-01	1.51E-01	6.59E+00	1.69E-05	1.26E-04	3.21E-04	7.29E-02	7.33E-07	3.84E-06	0.00E+00	1.52E-06
Railyard Oper	Diesel	2030	Annual	Mon-Sun	2270015010	Crane (Rail-CHE)	D	175	Railyard Operations	U	P	NHH	P	Sacramento	SV	SAC	9.81E-02	9.07E-02	2.82E-01	7.30E-07	1.60E-05	3.41E-06	3.10E-03	3.49E-08	1.37E-07	0.00E+00	6.59E-08
Railyard Oper	Diesel	2030	Annual	Mon-Sun	2270015020	Generator (Railyard)	D	175	Railyard Operations	U	P	NHH	P	Sacramento	SV	SAC	3.27E-02	3.02E-02	1.91E-01	4.94E-07	1.09E-05	2.31E-06	2.10E-03	2.37E-08	9.30E-08	0.00E+00	4.46E-08
Railyard Oper	Diesel	2030	Annual	Mon-Sun	2270015020	Generator (Railyard)	D	9999	Railyard Operations	U	N	NHH	P	Sacramento	SV	SAC	3.27E-02	3.02E-02	1.20E+00	3.07E-06	2.29E-05	5.85E-05	1.33E-02	1.33E-07	7.00E-07	0.00E+00	2.77E-07
Pleasure Craft	Gasoline	2030	Annual	Mon-Sun	2282005010	Vessels w/Outboard Engines	G2	175	Pleasure Craft	U	N	NHH	NP	Sacramento	SV	SAC	4.08E+02	5.35E+01	2.40E+02	3.43E-02	7.70E-02	9.09E-03	2.06E+00	3.35E-05	1.94E-02	3.74E-04	2.13E-03
Pleasure Craft	Gasoline	2030	Annual	Mon-Sun	2282005010	Vessels w/Outboard Engines	G2	250	Pleasure Craft	U	N	NHH	NP	Sacramento	SV	SAC	1.17E+02	1.54E+01	8.90E+01	1.17E-02	2.30E-02	5.07E-03	7.78E-01	1.30E-05	7.55E-03	1.53E-04	7.26E-04
Pleasure Craft	Gasoline	2030	Annual	Mon-Sun	2282005010	Vessels w/Outboard Engines	G2	500	Pleasure Craft	U	N	NHH	NP	Sacramento	SV	SAC	2.37E+01	3.10E+00	2.59E+01	4.54E-03	8.54E-03	9.34E-05	2.20E-01	3.67E-06	2.13E-03	8.45E-06	2.82E-04
Pleasure Craft	Gasoline	2030	Annual	Mon-Sun	2282005030	Personal Water Craft	G2	9999	Pleasure Craft	U	N	NHH	NP	Sacramento	SV	SAC	2.22E+04	1.49E+03	5.54E+03	6.15E-01	1.11E+00	2.33E-01	4.94E+01	8.03E-04	4.53E-01	1.01E-02	3.82E-02
Pleasure Craft	Gasoline	2030	Annual	Mon-Sun	2282010005	Vessels w/Inboard Engines	G4	250	Pleasure Craft	U	N	NHH	NP	Sacramento	SV	SAC	9.60E+03	2.44E+03	1.32E+04	3.42E-01	1.47E+01	4.02E-01	1.03E+02	1.19E-03	9.88E-03	1.63E-02	1.94E-02
Pleasure Craft	Gasoline	2030	Annual	Mon-Sun	2282010015	Vessels w/Sterndrive Engines	G4	250	Pleasure Craft	U	N	NHH	NP	Sacramento	SV	SAC	2.10E+04	4.18E+03	1.67E+04	4.12E-01	1.81E+01	4.83E-01	1.31E+02	1.51E-03	1.25E-02	2.31E-02	2.33E-02
Pleasure Craft	Gasoline	2030	Annual	Mon-Sun	2282010040	Vessels w/Inboard Jet Engines	G4	500	Pleasure Craft	U	N	NHH	NP	Sacramento	SV	SAC	1.86E+03	3.71E+02	2.39E+03	6.09E-02	2.61E+00	7.25E-02	1.87E+01	2.15E-04	1.79E-03	2.71E-03	3.45E-03
Pleasure Craft	Diesel	2030	Annual	Mon-Sun	2282020005	Vessels w/Inboard Engines	D	250	Pleasure Craft	U	N	NHH	NP	Sacramento	SV	SAC	6.10E+02	1.55E+02	7.74E+02	4.56E-02	6.86E-02	1.56E-01	8.30E+00	9.33E-05	4.20E-03	0.00E+00	4.12E-03

Model Output: OFFROAD2021 (v1.0.1) Emissions Inventory
Region Type: County
Region: Sacramento
Calendar Year: 2019, 2030
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

READ COMMENT

OFFROADClass	Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2_5_tpd	SOx_tpd	NH3_tpd	Fuel_gpy	Total_Activity_h	Total_Population	Horsepower_Hours_hhpy
Construction and Mi	Sacramento	2019	Construction and Mining - Bore/Drill Rigs	Aggregate	Aggregate	Diesel	0.00070134	0.00084862	0.0010099	0.00810989	0.01098517	2.720429631	0.000399518	0.0003676	2.5131E-05	2.2204E-05	88261.34337	15469.76233	44.72691956	3409958.368
Construction and Mi	Sacramento	2019	Construction and Mining - Cranes	Aggregate	Aggregate	Diesel	0.00438525	0.00530615	0.0063148	0.03449744	0.06044235	6.47405953	0.002784457	0.0025617	5.9724E-05	5.284E-05	210043.7316	60960.69814	134.557096	14107844.38
Construction and Mi	Sacramento	2019	Construction and Mining - Crawler Tractors	Aggregate	Aggregate	Diesel	0.01034099	0.0125126	0.014891	0.07283891	0.13953573	16.00087506	6.87E-03	6.32E-03	0.00014763	0.0001306	519130.7694	110113.8625	247.8522667	23382846.04
Construction and Mi	Sacramento	2019	Construction and Mining - Excavators	Aggregate	Aggregate	Diesel	0.01015172	0.01228358	0.0146185	0.10323653	0.1267604	28.79110011	0.005285521	0.0048627	0.00026588	0.00023499	934095.5354	298219.2549	481.7322684	47025996.09
Construction and Mi	Sacramento	2019	Construction and Mining - Graders	Aggregate	Aggregate	Diesel	0.0076288	0.00923084	0.0109855	0.04434349	0.10393655	10.83116584	0.004518532	0.004157	9.9911E-05	8.8403E-05	351405.2473	88096.67927	155.7355279	16601213.98
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Asphalt Pavers	Aggregate	Aggregate	Gasoline	0.00029129	0.00027718	0.0003206	0.01326808	0.00044156	0.111894459	4.81263E-05	3.636E-05	1.2729E-06	1.7709E-06	5054.666987	1697.25	5.27819755	71777.25
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Bore/Drill Rigs	Aggregate	Aggregate	Gasoline	0.00011459	0.00010771	0.0001261	0.00406783	0.00038261	0.098990876	1.79E-05	1.35E-05	9.92E-07	1.40E-06	3989.264491	616.85	6.455500574	52786.3
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Bore/Drill Rigs	Aggregate	Aggregate	Diesel	7.2362E-06	8.7036E-06	1.04E-05	3.185E-05	5.4934E-05	1.27572E-07	1.85317E-06	1.4E-06	7.86E-10	6.77E-10	2.695424578	0	0.439806219	0
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Cement And Mortar Mixers	Aggregate	Aggregate	Gasoline	0.00164915	0.00166564	0.0018148	0.04601248	0.0008973	1.66812E-06	0.000401207	0.0003031	7.62E-07	1.05E-06	2911.505609	0	146.8867824	0
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Cement And Mortar Mixers	Aggregate	Aggregate	Diesel	8.8424E-06	1.0635E-05	1.271E-05	5.1381E-05	6.6275E-05	1.5762E-07	2.39208E-06	1.807E-06	1.15E-09	9.87E-10	3.928420222	0	3.018082304	0
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Gasoline	0.00138429	0.00137997	0.0015233	0.05204422	0.00120806	0.264204045	0.000471415	0.0003562	3.49E-06	4.64E-06	13243.35002	3117.1	25.63521335	144288.15
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Diesel	5.1519E-05	6.1327E-05	7.418E-05	0.00037864	0.00035806	0.045708748	1.98E-05	1.82E-05	5.91E-07	3.87E-07	1537.084898	1102.3	1.990953975	36375.9
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Cranes	Aggregate	Aggregate	Gasoline	1.45E-04	1.33E-04	1.59E-04	0.00588125	3.71E-04	0.087998157	6.13E-06	4.63E-06	8.94E-07	1.29E-06	3682.85	1262.9	2.97	80004.35
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Crushing/Proc. Equipment	Aggregate	Aggregate	Gasoline	8.10E-06	8.18E-06	8.91E-06	2.84E-04	5.61E-06	1.04E-08	3.38E-06	2.56E-06	4.50E-09	6.21E-09	17.6762011	0	0.119784516	0
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Gasoline	0.00094513	0.00088493	0.0010401	0.0307938	0.00064277	5.10E-02	0.000343323	0.0002594	1.42E-06	1.36E-06	3878.385472	9880.55	76.00824684	91622.3
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Diesel	8.81E-07	1.06E-06	1.27E-06	3.61E-06	6.70E-06	1.54E-08	2.31E-07	1.74E-07	9.18E-11	7.91E-11	0.314603218	0	0.127124071	0
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Excavators	Aggregate	Aggregate	Diesel	6.3001E-06	7.5776E-06	9.056E-06	2.5864E-05	4.7885E-05	1.10528E-07	1.61031E-06	1.217E-06	6.57E-10	5.66E-10	2.251644511	0	0.200153491	0
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Other	Aggregate	Aggregate	Gasoline	5.47E-05	5.04E-05	6.02E-05	4.66E-03	1.82E-04	0.141263295	1.01E-05	7.65E-06	1.40E-06	1.97E-06	5624.65	1029.3	2.959643544	129691.8
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Other	Aggregate	Aggregate	Diesel	1.89E-04	2.26E-04	2.73E-04	0.00131677	1.68E-03	0.210126339	6.47E-05	5.87E-05	3.16E-06	1.76E-06	7005.366073	14537.95	22.97034646	197402.95
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Pavers	Aggregate	Aggregate	Diesel	1.65E-06	1.99E-06	2.38E-06	6.7815E-06	1.26E-05	2.90E-08	4.38E-07	3.31E-07	1.72E-10	1.48E-10	0.590750265	0	0.078621841	0
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Gasoline	0.00267996	0.00269678	0.0029491	0.08327192	0.0019566	0.100826816	0.000794502	6.00E-04	2.38E-06	3.19E-06	9050.229051	1682.65	113.8728066	72207.95
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Diesel	2.81E-06	3.38E-06	4.04E-06	1.16E-05	2.14E-05	4.94E-08	7.16E-07	5.41E-07	2.93E-10	2.53E-10	1.005653868	0	0.195981905	0
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Gasoline	6.49E-03	6.07E-03	0.0071408	2.03E-01	4.45E-03	3.28E-01	2.06E-03	1.56E-03	1.05E-05	8.93E-06	25463.64101	74945.45	444.2981438	459958.4
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Diesel	5.62E-05	6.70E-05	8.09E-05	0.00041705	4.98E-04	0.062120168	1.93E-05	1.75E-05	9.67E-07	5.22E-07	2076.009954	10519.3	19.28668619	84154.4
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Gasoline	1.16E-03	1.11E-03	1.28E-03	0.04473046	0.00180751	0.317633662	2.10E-04	1.59E-04	3.50E-06	5.20E-06	14830.9636	3540.5	16.20616008	218795.6
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Diesel	4.15E-05	5.00E-05	5.97E-05	2.18E-04	3.14E-04	7.43E-07	1.08E-05	8.17E-06	5.04E-09	4.34E-09	17.28416958	0	5.293564991	0
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Rough Terrain Forklifts	Aggregate	Aggregate	Gasoline	0.00092783	0.00085342	0.001021	0.03221088	0.00269562	0.636943162	4.44566E-05	3.359E-05	6.22E-06	9.15E-06	26126.7	5139.2	12.32	433364.5
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Gasoline	5.08E-04	4.67E-04	5.59E-04	0.01979474	1.29E-03	3.31E-01	2.31E-05	1.74E-05	3.27E-06	4.83E-06	13786.05	3850.75	7.498680088	261252.4
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	1.0264E-06	1.2345E-06	1.475E-06	4.2137E-06	7.8014E-06	1.80072E-08	2.62321E-07	1.982E-07	1.07E-10	9.22E-11	0.36683678	0	0.04619326	0
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Signal Boards	Aggregate	Aggregate	Gasoline	1.64E-04	1.53E-04	1.80E-04	0.00649922	0.00012929	0.009636988	8.03E-05	6.07E-05	2.91E-07	2.72E-07	776.8988139	1255.6	5.413976362	9814.85
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Signal Boards	Aggregate	Aggregate	Diesel	0.00090031	0.00107264	0.0012962	0.00667972	0.007934	0.991098228	0.000309737	0.0002809	1.54E-05	8.32E-06	33091.03346	115387.45	169.1954637	705110.65
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Skid Steer Loaders	Aggregate	Aggregate	Gasoline	1.45E-03	1.40E-03	1.59E-03	0.07048887	0.00182506	9.10E-01	3.30E-04	2.49E-04	1.01E-05	1.36E-05	38773.22092	13362.65	50.89842052	667804
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Skid Steer Loaders	Aggregate	Aggregate	Diesel	0.00033503	0.00040297	0.0004816	0.00135952	0.002523	5.75913E-06	9.06E-05	6.84E-05	3.47E-08	2.99E-08	118.9273143	0	20.80542839	0
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Surfacing Equipment	Aggregate	Aggregate	Gasoline	1.39E-03	1.40E-03	1.53E-03	0.03657478	0.00099305	1.38416E-06	4.16E-04	3.14E-04	5.95E-07	8.22E-07	2324.719535	0	28.14863484	0
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Tampers/Rammers	Aggregate	Aggregate	Gasoline	8.34E-04	7.78E-04	9.17E-04	3.77E-02	7.02E-04	6.20E-02	5.38E-04	4.06E-04	2.56E-06	1.65E-06	4709.954835	20593.3	129.9647081	86899.2
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Tractors/Loaders/Backhoes	Aggregate	Aggregate	Gasoline	2.00E-04	1.84E-04	2.21E-04	0.01229016	5.13E-04	0.214097499	1.49E-05	1.13E-05	2.07E-06	3.10E-06	8862.2	3025.85	3.544438504	190628.55
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Tractors/Loaders/Backhoes	Aggregate	Aggregate	Diesel	3.0022E-05	3.611E-05	4.316E-05	0.00012323	0.00022822	5.26631E-07	7.80E-06	5.89E-06	3.13E-09	2.70E-09	10.72894335	0	1.464682002	0
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Trenchers	Aggregate	Aggregate	Gasoline	0.00210747	0.00201817	0.0023191	0.09051532	0.00301079	0.58324077	0.000383508	0.0002898	6.94E-06	9.71E-06	27719.55243	9632.35	32.21787457	375431.7
Construction and Mi	Sacramento	2019	Construction and Mining - Misc - Trenchers	Aggregate	Aggregate	Diesel	3.7903E-05	4.5589E-05	5.449E-05	0.00017457	0.0002875	6.70E-07	9.76764E-06	7.38E-06	4.23E-09	3.65E-09	14.51284163	0	2.293359269	0
Construction and Mi	Sacramento	2019	Construction and Mining - Off-Highway Tractors	Aggregate	Aggregate	Diesel	0.00335281	0.0040569	0.004828	0.02760565	0.03422662	6.09E+00	0.001866086	0.0017168	5.62E-05	4.97E-05	197483.5005	69912.4531	109.6648664	8670111.101
Construction and Mi	Sacramento	2019	Construction and Mining - Off-Highway Trucks	Aggregate	Aggregate	Diesel	0.01648535	0.01994727	0.0237389	0.11399686	0.22482859	36.51576775	0.007722172	0.0071044	3.37E-04	2.98E-04	1184713.87	148799.564	114.7786411	59939162.08
Construction and Mi	Sacramento	2019	Construction and Mining - Other	Aggregate	Aggregate	Diesel	4.41E-03	5.34E-03	6.35E-03	0.03417684	5.51E-02	8.150349434	2.74E-03	2.52E-03	7.52E-05	6.65E-05	264429.1114	71090.95651	165.96765	12249562.4
Construction and Mi	Sacramento	2019	Construction and Mining - Pavers	Aggregate	Aggregate	Diesel	1.01E-03	1.23E-03	1.46E-03	0.00925348	0.01278512	1.92E+00	6.86E-04	6.31E-04	1.77E-05	1.57E-05	62284.75331	22337.57349	58.9046987	2892732.293
Construction and Mi	Sacramento	2019	Construction and Mining - Paving Equipment	Aggregate	Aggregate	Diesel	0.0005416	0.00065533	0.0007799	0.00516325	0.00698612	1.116879862	0.000349657	0.0003217	1.03E-05	9.12E-06	36235.93711	14909.92204	33.37499485	1959913.953
Construction and Mi	Sacramento	2019	Construction and Mining - Rollers	Aggregate	Aggregate	Diesel	3.38E-03	4.09E-03	4.86E-03	0.0311832	0.03326043	4.98E+00	2.01E-03	1.85E-03	4.59E-05	4.06E-05	161488.7422	101320.9659	307.067191	8140425.693
Construction and Mi	Sacramento	2019	Construction and Mining - Rough Terrain Forklifts	Aggregate	Aggregate	Diesel	0.00168496	0.0020388	0.0024263	0.03232685	0.02591369	5.403496441	0.001133513	0.0010428	4.99E-05	4.41E-05	175310.4911	83771.66705	309.3471925	8414433.417
Construction and Mi	Sacramento	2019	Construction and Mining - Rubber Tired Dozers	Aggregate	Aggregate	Diesel	0.00303002	0.00366632	0.0043632	0.02606015	0.03787195	3.194286246	0.001891101	0.0017398	2.94E-05	2.61E-05	103635.0994	20203.99885	27.35015811	5036776.294
Construction and Mi	Sacramento	2019	Construction and Mining - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	0.02446776	0.02960599	0.0352336	0.17671075	0.31032529	43.89435122	0.01389435	0.0127828	4.05E-04	3.58E-04	1424103.884	377349.2019	400.9333797	76384392.6
Construction and Mi	Sacramento	2019	Construction and Mining - Scrapers	Aggregate	Aggregate	Diesel	0.0158507	0.01917935	0.022825	0.13595244	0.22956078	28.58886723	0.009274088	0.0085322	2.64E-04	2.33E-04	927534.3123	101247.5486	225.2634859	37153363.2
Construction and Mi	Sacramento	2019	Construction and Mining - Skid Steer Loaders	Aggregate	Aggregate	Diesel	0.00188519	0.00228108	0.0027147	0.03239365	0.02733865	5.234161477	1.22E-03	1.13E-03	4.83E-05	4.27E-05	169816.6047	133989.39	401.1501004	8766249.024
Construction and Mi	Sacramento	2019	Construction and Mining - Surfacing Equipment	Aggregate	Aggregate	Diesel	0.00018629	0.00022541	0.0002683	0.00168609	0.00309881	0.600685849	0.000117217	0.0001078	5.55E-06	4.90E-06	19488.59084	4753.323311	18.42126339	1248393.16
Construction and Mi	Sacramento	2019	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	Aggregate	Diesel	0.02165719	0.0262052	0.0311864	0.23896386	0.26055794	39.99578817	0.015545557	0.0143019	3.69E-04	3.26E-04	1297619.3	694534.2769	1209.957272	67857075.32
Construction and Mi	Sacramento	2019	Construction and Mining - Trenchers	Aggregate	Aggregate	Diesel	0.00148144	0.00179255	0.0021333	0.01033366	0.01350071	1.652966663	0.000882225	0.0008116	1.52E-05	1.35E-05	53628.68297	25292.21265	72.68813813	1990053.835
Construction and Mi	Sacramento	2030	Construction and Mining - Bore/Drill Rigs	Aggregate	Aggregate	Diesel	0.00067125	0.00081221	0.0009666	0.01094564	0.00786489	3.749352396	0.000249501	0.0002295	3.4644E-05	3.0602E-05	121643.6093	21196.68506	56.35576357	4686772.35
Construction and Mi	Sacramento	2030	Construction and Mining - Cranes	Aggregate	Aggregate	Diesel	0.00300258	0.00363312	0.0043237	0.03294417	0.03134181	8.86611575	0.00141243	0.0012994	8.1882E-05	7.2364E-05	287651.3612	83527.26659	169.5414744	19304095.26
Construction and Mi	Sacramento	2030	Construction and Mining - Crawler Tractors	Aggregate	Aggregate	Diesel	0.00694422	0.00840251	0.0099997	0.08244884	0.06891539	21.89636317	0.003196911	0.0029412	0.00020223	0.00017872	710403.3884	150874.809	312.2929967	32004109.51
Construction and Mi	Sacramento	2030	Construction and Mining - Excavators	Aggregate	Aggregate	Diesel	0.00817417	0.00989075	0.0117708	0.13618774	0.06631701	39.45117764	0.002126505	0.0019564	0.0003645	0.000322	1279950.011	408612.8186	606.9809879	64401082.25
Construction and Mi	Sacramento	2030	Construction and Mining - Graders	Aggregate	Aggregate	Diesel	0.00499494	0.00604387	0.0071927	0.05358238	0.04638608	14.82069699	0.001956916	0.0018004	0.00013687	0.00012096	480841.1917	120710.7679	196.2262252	22707241.9
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Asphalt Pavers	Aggregate	Aggregate	Gasoline	0.00023966	0.00023096	0.0002637	0.01420946	0.00029366	0.111894474	5.37E-05	4.06E-05	1.2805E-06	1.7903E-06	5109.938305	1715.5	5.405496392	72361.25
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Bore/Drill Rigs	Aggregate	Aggregate	Gasoline	7.7122E-05	7.3469E-05	8.487E-05	0.00381346	0.00015776	0.098990879	1.8958E-05	1.432E-05	9.9308E-07	1.3932E-06	3976.72309	613.2	6.612631568	53552.8
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Bore/Drill Rigs	Aggregate	Aggregate	Diesel	8.3983E-06	1.0101E-05	1.207E-05	3.7038E-05	6.3753E-05	1.4808E-07	2.15741E-06	1.63E-06	9.1385E-10	7.872E-10	3.131988444	0	0.51154963	0
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Cement And Mortar Mixers	Aggregate	Aggregate	Gasoline	0.00167113	0.00168784	0.001839	0.05159777	0.00108862	1.93674E-06	0.000466521	0.0003525	8.36E-07	1.154E-06	3241.734014	0	170.5386891	0
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Cement And Mortar Mixers	Aggregate	Aggregate	Diesel	1.0115E-05	1.2166E-05	1.454E-05	5.9265E-05	7.6331E-05	1.82587E-07	2.66E-06	2.01E-06	1.32E-09	1.14E-09	4.518814327	0	3.494113976	0
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Gasoline	0.00157016	0.0015677	0.0017279	0.05817531	0.00133815	0.264204269	0.000543463	0.0004106	3.58E-06	4.78E-06	13626.89512	3117.1	28.90149552	144288.15
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Diesel	2.789E-05	3.321E-05	4.016E-05	0.00039641	0.00031041	0.05285506	4.23322E-06	3.835E-06	6.83E-07	4.44E-07	1763.452499	1277.5	2.295092081	42157.5
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Cranes	Aggregate	Aggregate	Gasoline	8.7215E-05	8.0221E-05	9.598E-05	0.00612093	0.00018935	0.087998159	6.13085E-06	4.632E-06	8.9351E-07	1.29E-06	3690.15	1266.55	3	79683.15
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Crushing/Proc. Equipment	Aggregate	Aggregate	Gasoline	8.7597E-06	8.8474E-06	9.64E-06	0.00030796	6.0684E-06	1.1344E-08	3.67547E-06	2.777E-06	4.88E-09	6.74E-09	19.19028181	0	0.130046428	0
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Gasoline	0.00088339	0.00082892	0.0009721	0.03037447	6.44E-04	0.050109787	3.45E-04	2.61E-04	1.40E-06	1.34E-06	3828.669048	9654.25	76.38979038	87731.4
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Diesel	1.02E-06	1.23E-06	1.47E-06	4.193E-06	7.76E-06	1.79189E-08	2.61E-07	1.97E-07	1.07E-10	9.17E-11	0.365038882	0	0.147546532	0
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Excavators	Aggregate	Aggregate	Diesel	7.28E-06	8.75E-06	1.05E-05	2.99E-05	5.53E-05	1.28E-07	1.86E-06	1.41E-06	7.59E-10	6.54E-10	2.600910585	0	0.231200495	0
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Other	Aggregate	Aggregate	Gasoline	5.4752E-05	5.0361E-05	6.025E-05	0.00466354	0.00018192	1.41E-01	1.01271E-05	7.652E-06	1.40E-06	1.97E-06	5624.65	1029.3	2.963035256	129691.8
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Other	Aggregate	Aggregate	Diesel	2.19E-04	2.61E-04	3.16E-04	1.52E-03	1.95E-03	2.43E-01	7.49E-05	6.80E-05	3.66E-06	2.04E-06	8112.743009	16811.9	26.59806391	228278.3
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Pavers	Aggregate	Aggregate	Diesel	1.9273E-06	2.3181E-06	2.771E-06	7.912E-06	1.4649E-05	3.38121E-08	4.92616E-07	3.722E-07	2.01E-10	1.73E-10	0.6888103	0	0.091728648	0
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Gasoline	3.07E-03	3.09E-03	3.38E-03	9.54E-02	2.19E-03	0.100827274	9.21E-04	6.96E-04	2.58E-06	3.46E-06	9805.798469	1679	130.620151	72072.9
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Diesel	3.25E-06	3.91E-06	4.67E-06	1.3334E-05	2.47E-05	5.69845E-08	8.30E-07	6.27E-07	3.39E-10	2.92E-10	1.160871293	0	0.226230688	0
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Gasoline	6.53E-03	6.12E-03	7.19E-03	0.20500084	4.46E-03	3.22E-01	2.07E-03	1.56E-03	1.04E-05	8.89E-06	25329.80795	73525.6	446.33329	451256.8
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Diesel	6.4991E-05	7.7432E-05	9.357E-05	0.00048228	0.00057579	0.071832317	2.22954E-05	2.02E-05	1.12E-06	6.04E-07	2401.30182	12172.75	22.28135281	97382
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Gasoline	9.78E-04	9.51E-04	1.08E-03	4.97E-02	1.22E-03	3.18E-01	2.39E-04	1.81E-04	3.54E-06	5.29E-06	15093.63316	3533.2	17.81551546	218664.2
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Diesel	4.80E-05	5.7708E-05	6.90E-05	2.52E-04	3.63E-04	8.58E-07	1.25E-05	9.44E-06	5.82E-09	5.02E-09	19.96267486	0	6.114452749	0
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Rough Terrain Forklifts	Aggregate	Aggregate	Gasoline	5.26E-04	4.84E-04	5.79E-04	0.03227331	1.32E-03	0.636943134	4.45E-05	3.36E-05	6.22E-06	9.13E-06	26068.3	5095.4	12.26	428531.9
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Gasoline	2.92E-04	2.69E-04	3.22E-04	0.02050469	0.00069243	0.331443312	2.31E-05	1.74E-05	3.27E-06	4.83E-06	13789.7	3861.7	7.558051152	261807.2
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	1.31E-06	1.58E-06	1.88E-06	5.38E-06	9.9608E-06	2.30E-08	3.35E-07	2.53E-07	1.37E-10	1.18E-10	0.468380512	0	0.058979972	0
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Signal Boards	Aggregate	Aggregate	Gasoline	0.00016389	0.00015343	0.0001803	0.00653446	0.00012909	0.009455571	8.06274E-05	6.092E-05	2.88E-07	2.70E-07	771.0535019	1219.1	5.436275152	9544.75
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Signal Boards	Aggregate	Aggregate	Diesel	1.03E-03	1.22E-03	1.48E-03	7.71E-03	9.13E-03	1.15E+00	3.50E-04	3.17E-04	1.78E-05	9.62E-06	38255.38754	133425.75	195.6559794	815150.85
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Skid Steer Loaders	Aggregate	Aggregate	Gasoline	0.00152916	0.00148227	0.0016827	0.07299072	0.00187443	0.909704506	0.000359124	0.0002713	1.01E-05	1.36E-05	38937.66802	13351.7	51.72931181	667103.2
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Skid Steer Loaders	Aggregate	Aggregate	Diesel	3.71E-04	4.46E-04	5.33E-04	0.00152118	0.00281636	6.50076E-06	9.48E-05	7.16E-05	3.86E-08	3.33E-08	132.4315779	0	23.48465942	0
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Surfacing Equipment	Aggregate	Aggregate	Gasoline	0.00161208	0.0016282	0.001774	0.04246093	0.00115104	1.60692E-06	0.000483125	0.000365	6.91E-07	9.54E-07	2698.520337	0	32.67829925	0
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Tampers/Rammers	Aggregate	Aggregate	Gasoline	8.39E-04	7.85E-04	9.23E-04	0.03792125	0.00070553	6.08E-02	5.40E-04	4.08E-04	2.53E-06	1.64E-06	4675.006638	20202.75	130.563777	85227.5
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Tractors/Loaders/Backhoes	Aggregate	Aggregate	Gasoline	1.76E-04	1.62E-04	0.0001935	0.01232338	0.00045258	0.214097499	1.49E-05	1.13E-05	2.07E-06	3.10E-06	8854.9	3022.2	3.525461648	190398.6
Construction and Mi	Sacramento	2030	Construction and Mining - Misc - Tractors/Loaders/Backhoes	Aggregate	Aggregate	Diesel	3.49E-05	4.20E-05	5.02E-05	0.00014342	0.00026553	6.12905E-07	8.93E-06	6.75E-06	3.64E-09	3.14E-09

Construction and Mi	Sacramento	2030	Construction and Mining - Rollers	Aggregate	Aggregate	Diesel	2.29E-03	2.77E-03	3.30E-03	0.04034501	2.35E-02	6.821916695	9.13E-04	8.40E-04	6.30E-05	5.57E-05	221329.5742	138822.2689	386.903596	11151774
Construction and Mi	Sacramento	2030	Construction and Mining - Rough Terrain Forklifts	Aggregate	Aggregate	Diesel	0.00132542	0.00160375	1.91E-03	0.04365606	0.02053388	7.41E+00	0.000494127	4.55E-04	6.84E-05	6.05E-05	240330.5817	114759.8014	389.77639	11531946.35
Construction and Mi	Sacramento	2030	Construction and Mining - Rubber Tired Dozers	Aggregate	Aggregate	Diesel	0.00225428	0.00272768	0.0032462	0.02293308	0.0231384	4.362702324	0.001068302	0.0009828	4.03E-05	3.56E-05	141543.0722	27683.79845	34.4611044	6863122.199
Construction and Mi	Sacramento	2030	Construction and Mining - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	1.72E-02	2.08E-02	2.47E-02	0.21038354	0.12326782	6.03E+01	4.81E-03	0.0044223	5.57E-04	4.92E-04	1955163.52	517028.7392	505.1746682	104700342.4
Construction and Mi	Sacramento	2030	Construction and Mining - Scrapers	Aggregate	Aggregate	Diesel	0.01158205	0.01401428	0.0166782	0.12013713	0.10853046	39.22223939	0.004567902	0.0042025	3.62E-04	3.20E-04	1272522.361	138719.5296	283.8312112	50935064.34
Construction and Mi	Sacramento	2030	Construction and Mining - Skid Steer Loaders	Aggregate	Aggregate	Diesel	0.00159716	0.00193257	0.0022999	0.04363949	0.0249121	7.18285566	0.000547084	0.0005033	6.6361E-05	5.8626E-05	233039.8414	183596.2095	505.4477356	12009452.96
Construction and Mi	Sacramento	2030	Construction and Mining - Surfacing Equipment	Aggregate	Aggregate	Diesel	0.000142	0.00017182	0.0002045	0.00220997	0.00172841	0.824448401	5.66825E-05	5.215E-05	7.62E-06	6.73E-06	26748.3204	6512.016158	23.210728	1714112.388
Construction and Mi	Sacramento	2030	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	Aggregate	Diesel	0.01512145	0.01829696	0.0217749	0.31573369	0.16347133	55.05266434	4.80E-03	4.41E-03	5.09E-04	4.49E-04	1786123.065	951614.7255	1524.541967	93242553.61
Construction and Mi	Sacramento	2030	Construction and Mining - Trenchers	Aggregate	Aggregate	Diesel	0.0010726	0.00129785	0.0015445	0.01239908	0.01149524	2.265649572	5.00E-04	4.60E-04	2.09E-05	1.85E-05	73506.5052	34650.45125	91.58680202	2724378.704
Construction and Mi	Sacramento	2045	Construction and Mining - Bore/Drill Rigs	Aggregate	Aggregate	Diesel	5.85E-04	7.08E-04	8.43E-04	1.26E-02	5.59E-03	4.37E+00	1.09E-04	1.00E-04	4.04E-05	3.56E-05	141696.9118	24691.02019	62.01663684	5459400.391
Construction and Mi	Sacramento	2045	Construction and Mining - Cranes	Aggregate	Aggregate	Diesel	2.40E-03	2.91E-03	3.46E-03	3.28E-02	1.89E-02	1.03E+01	7.77E-04	7.15E-04	9.54E-05	8.43E-05	335071.524	97296.97922	186.5717254	22486431.47
Construction and Mi	Sacramento	2045	Construction and Mining - Crawler Tractors	Aggregate	Aggregate	Diesel	5.68E-03	6.87E-03	8.18E-03	8.59E-02	4.25E-02	2.55E+01	1.56E-03	1.44E-03	2.36E-04	2.08E-04	827515.4514	175746.9597	343.6624782	37280079.97
Construction and Mi	Sacramento	2045	Construction and Mining - Excavators	Aggregate	Aggregate	Diesel	8.06E-03	9.76E-03	1.16E-02	1.56E-01	5.34E-02	4.60E+01	1.15E-03	1.06E-03	4.25E-04	3.75E-04	1490953.49	475973.8292	667.9515477	75017787.8
Construction and Mi	Sacramento	2045	Construction and Mining - Graders	Aggregate	Aggregate	Diesel	4.00E-03	4.84E-03	5.76E-03	6.04E-02	2.06E-02	1.73E+01	8.55E-04	7.86E-04	1.59E-04	1.41E-04	560109.2595	140610.2887	215.9369295	26450596.72
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Asphalt Pavers	Aggregate	Aggregate	Gasoline	2.59E-04	2.50E-04	2.85E-04	1.50E-02	3.04E-04	1.12E-01	6.10E-05	4.61E-05	1.29E-06	1.80E-06	5148.708436	1689.95	5.530873302	71226.1
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Bore/Drill Rigs	Aggregate	Aggregate	Gasoline	7.64E-05	7.31E-05	8.40E-05	3.89E-03	1.36E-04	9.90E-02	2.07E-05	1.56E-05	9.95E-07	1.40E-06	3989.60079	620.5	6.65117814	53173.2
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Bore/Drill Rigs	Aggregate	Aggregate	Diesel	9.28E-06	1.12E-05	1.33E-05	4.09E-05	7.05E-05	1.64E-07	2.38E-06	1.80E-06	1.01E-09	8.70E-10	3.461256104	0	0.565255746	0
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Cement And Mortar Mixers	Aggregate	Aggregate	Gasoline	2.00E-03	2.02E-03	2.20E-03	6.11E-02	1.30E-03	2.29E-06	5.52E-04	4.17E-04	9.90E-07	1.37E-06	3841.303662	0	201.9518295	0
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Cement And Mortar Mixers	Aggregate	Aggregate	Diesel	1.14E-05	1.37E-05	1.63E-05	6.66E-05	8.58E-05	2.05E-07	2.99E-06	2.26E-06	1.48E-09	1.28E-09	5.077855962	0	3.925908282	0
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Gasoline	1.82E-03	1.82E-03	2.01E-03	6.63E-02	1.52E-03	2.64E-01	6.39E-04	4.83E-04	3.71E-06	4.96E-06	14138.48353	3117.1	33.250906	144288.15
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Diesel	2.86E-05	3.40E-05	4.12E-05	4.42E-04	3.31E-04	5.94E-02	1.93E-06	1.71E-06	7.67E-07	4.99E-07	1982.472469	1434.45	2.589268419	47336.85
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Cranes	Aggregate	Aggregate	Gasoline	7.80E-05	7.18E-05	8.59E-05	5.98E-03	1.66E-04	8.80E-02	6.13E-06	4.63E-06	8.94E-07	1.29E-06	3690.15	1270.2	2.94	80460.6
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Crushing/Proc. Equipment	Aggregate	Aggregate	Gasoline	1.06E-05	1.07E-05	1.17E-05	3.72E-04	7.35E-06	1.37E-08	4.44E-06	3.35E-06	5.90E-09	8.15E-09	23.18758841	0	0.157082028	0
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Gasoline	8.28E-04	7.81E-04	9.11E-04	2.83E-02	5.99E-04	4.49E-02	3.20E-04	2.42E-04	1.27E-06	1.23E-06	3513.402192	8562.9	70.96325294	79179.45
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Diesel	1.15E-06	1.38E-06	1.65E-06	4.72E-06	8.74E-06	2.02E-08	2.94E-07	2.22E-07	1.20E-10	1.03E-10	0.410883853	0	0.166076794	0
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Excavators	Aggregate	Aggregate	Diesel	8.19E-06	9.85E-06	1.18E-05	3.36E-05	6.23E-05	1.44E-07	2.09E-06	1.58E-06	8.54E-10	7.36E-10	2.928064315	0	0.260281885	0
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Other	Aggregate	Aggregate	Gasoline	5.48E-05	5.04E-05	6.03E-05	4.66E-03	1.82E-04	1.41E-01	1.01E-05	7.65E-06	1.40E-06	1.97E-06	5628.3	1029.3	2.968029832	129691.8
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Other	Aggregate	Aggregate	Diesel	2.47E-04	2.94E-04	3.55E-04	1.71E-03	2.19E-03	2.73E-01	8.42E-05	7.64E-05	4.11E-06	2.29E-06	9110.4803	18881.45	29.85371668	256394.25
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Pavers	Aggregate	Aggregate	Diesel	2.18E-06	2.62E-06	3.14E-06	8.95E-06	1.66E-05	3.83E-08	5.58E-07	4.21E-07	2.27E-10	1.96E-10	0.779547405	0	0.103812079	0
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Gasoline	3.62E-03	3.65E-03	3.99E-03	1.12E-01	2.56E-03	1.01E-01	1.09E-03	8.22E-04	2.84E-06	3.82E-06	10845.6452	1686.3	152.8155563	72448.85
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Diesel	3.58E-06	4.30E-06	5.14E-06	1.47E-05	2.72E-05	6.27E-08	9.14E-07	6.91E-07	3.73E-10	3.21E-10	1.278298219	0	0.249114859	0
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Gasoline	6.13E-03	5.77E-03	6.75E-03	1.92E-01	4.17E-03	2.84E-01	1.92E-03	1.45E-03	9.34E-06	8.09E-06	23056.69505	64973.65	414.5281825	398769.8
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Diesel	7.30E-05	8.70E-05	1.05E-04	5.42E-04	6.47E-04	8.07E-02	2.50E-05	2.27E-05	1.26E-06	6.78E-07	2693.703576	13665.6	25.01108702	109324.8
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Gasoline	1.05E-03	1.02E-03	1.15E-03	5.27E-02	1.20E-03	3.18E-01	2.81E-04	2.12E-04	3.59E-06	5.36E-06	15284.4422	3536.85	20.13177643	218383.15
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Diesel	5.28E-05	6.35E-05	7.59E-05	2.77E-04	3.99E-04	9.44E-07	1.37E-05	1.04E-05	6.41E-09	5.52E-09	21.96207814	0	6.727274732	0
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Rough Terrain Forklifts	Aggregate	Aggregate	Gasoline	4.63E-04	4.26E-04	5.10E-04	3.14E-02	1.14E-03	6.37E-01	4.45E-05	3.36E-05	6.22E-06	9.12E-06	26031.8	5088.1	12.24	425830.9
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Gasoline	2.80E-04	2.57E-04	3.08E-04	2.06E-02	6.58E-04	3.31E-01	2.31E-05	1.74E-05	3.27E-06	4.84E-06	13807.95	3869	7.572102584	262566.4
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	1.46E-06	1.76E-06	2.10E-06	5.99E-06	1.11E-05	2.56E-08	3.73E-07	2.82E-07	1.52E-10	1.31E-10	0.521552253	0	0.065675527	0
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Signal Boards	Aggregate	Aggregate	Gasoline	1.54E-04	1.45E-04	1.70E-04	6.08E-03	1.21E-04	8.36E-03	7.48E-05	5.66E-05	2.59E-07	2.46E-07	702.3978173	1080.4	5.055004428	8457.05
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Signal Boards	Aggregate	Aggregate	Diesel	1.15E-03	1.37E-03	1.66E-03	8.65E-03	1.02E-02	1.29E+00	3.92E-04	3.55E-04	2.00E-05	1.08E-05	42966.51801	149821.55	219.7396723	915336.05
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Skid Steer Loaders	Aggregate	Aggregate	Gasoline	1.69E-03	1.64E-03	1.86E-03	7.77E-02	1.98E-03	9.10E-01	4.14E-04	3.13E-04	1.02E-05	1.37E-05	39239.30244	13359	53.35954038	667336.8
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Skid Steer Loaders	Aggregate	Aggregate	Diesel	4.04E-04	4.86E-04	5.81E-04	1.66E-03	3.07E-03	7.09E-06	1.03E-04	7.81E-05	4.22E-08	3.63E-08	144.4953846	0	25.62398604	0
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Surfacing Equipment	Aggregate	Aggregate	Gasoline	1.91E-03	1.93E-03	2.10E-03	5.03E-02	1.37E-03	1.90E-06	5.72E-04	4.32E-04	8.19E-07	1.13E-06	3196.531497	0	38.70358871	0
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Tampers/Rammers	Aggregate	Aggregate	Gasoline	7.85E-04	7.38E-04	8.64E-04	3.52E-02	6.58E-04	5.38E-02	5.01E-04	3.79E-04	2.26E-06	1.49E-06	4236.454604	17852.15	121.255463	75332.35
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Tractors/Loaders/Backhoes	Aggregate	Aggregate	Gasoline	1.76E-04	1.62E-04	1.94E-04	1.24E-02	4.53E-04	2.14E-01	1.49E-05	1.13E-05	2.07E-06	3.10E-06	8862.2	3033.15	3.509623104	191088.45
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Tractors/Loaders/Backhoes	Aggregate	Aggregate	Diesel	3.93E-05	4.73E-05	5.66E-05	1.62E-04	2.99E-04	6.90E-07	1.01E-05	7.60E-06	4.10E-09	3.53E-09	14.06091029	0	1.919656234	0
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Trenchers	Aggregate	Aggregate	Gasoline	1.95E-03	1.90E-03	2.15E-03	1.05E-01	2.03E-03	5.83E-01	5.12E-04	3.87E-04	7.11E-06	1.00E-05	28559.84241	9628.7	35.33529092	375190.8
Construction and Mi	Sacramento	2045	Construction and Mining - Misc - Trenchers	Aggregate	Aggregate	Diesel	4.26E-05	5.13E-05	6.13E-05	1.96E-04	3.23E-04	7.54E-07	1.10E-05	8.30E-06	4.75E-09	4.10E-09	16.29542441	0	2.555681596	0
Construction and Mi	Sacramento	2045	Construction and Mining - Off-Highway Tractors	Aggregate	Aggregate	Diesel	2.21E-03	2.68E-03	3.19E-03	3.97E-02	1.68E-02	9.73E+00	3.07E-04	2.83E-04	8.99E-05	7.94E-05	315542.4887	111579.3076	152.0571115	13833332.55
Construction and Mi	Sacramento	2045	Construction and Mining - Off-Highway Trucks	Aggregate	Aggregate	Diesel	1.36E-02	1.65E-02	1.96E-02	1.38E-01	1.06E-01	5.85E+01	2.00E-03	1.84E-03	5.40E-04	4.77E-04	1896760.189	237492.5298	159.147676	96219994.31
Construction and Mi	Sacramento	2045	Construction and Mining - Other	Aggregate	Aggregate	Diesel	2.65E-03	3.21E-03	3.82E-03	4.52E-02	2.20E-02	1.30E+01	6.33E-04	5.82E-04	1.20E-04	1.06E-04	422686.7752	113466.405	230.1243989	19540486.65
Construction and Mi	Sacramento	2045	Construction and Mining - Pavers	Aggregate	Aggregate	Diesel	5.41E-04	6.55E-04	7.80E-04	1.42E-02	4.47E-03	3.06E+00	1.21E-04	1.11E-04	2.83E-05	2.50E-05	99386.66304	35652.09153	81.67500341	4615198.362
Construction and Mi	Sacramento	2045	Construction and Mining - Paving Equipment	Aggregate	Aggregate	Diesel	3.28E-04	3.97E-04	4.72E-04	7.78E-03	3.00E-03	1.78E+00	6.91E-05	6.35E-05	1.65E-05	1.46E-05	57840.71845	23796.33072	46.276492	3130709.515
Construction and Mi	Sacramento	2045	Construction and Mining - Rollers	Aggregate	Aggregate	Diesel	1.81E-03	2.19E-03	2.60E-03	4.56E-02	2.07E-02	7.95E+00	4.53E-04	4.17E-04	7.34E-05	6.49E-05	257816.3976	161707.5233	425.7676285	12990176.35
Construction and Mi	Sacramento	2045	Construction and Mining - Rough Terrain Forklifts	Aggregate	Aggregate	Diesel	1.21E-03	1.47E-03	1.75E-03	5.06E-02	2.02E-02	8.63E+00	2.46E-04	2.26E-04	7.97E-05	7.04E-05	279949.7764	133678.2882	428.9289914	13433021.21
Construction and Mi	Sacramento	2045	Construction and Mining - Rubber Tired Dozers	Aggregate	Aggregate	Diesel	1.70E-03	2.05E-03	2.44E-03	1.63E-02	1.30E-02	5.08E+00	4.90E-04	4.51E-04	4.69E-05	4.15E-05	164876.859	32247.55307	37.9226837	7994527.838
Construction and Mi	Sacramento	2045	Construction and Mining - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	1.61E-02	1.95E-02	2.32E-02	2.38E-01	7.20E-02	7.02E+01	2.21E-03	2.04E-03	6.49E-04	5.73E-04	2277477.908	602262.4293	555.9188974	121960498.1
Construction and Mi	Sacramento	2045	Construction and Mining - Scrapers	Aggregate	Aggregate	Diesel	9.76E-03	1.18E-02	1.40E-02	1.11E-01	6.22E-02	4.57E+01	2.45E-03	2.26E-03	4.22E-04	3.73E-04	1482301.371	161587.8471	312.3417382	59331857.71
Construction and Mi	Sacramento	2045	Construction and Mining - Skid Steer Loaders	Aggregate	Aggregate	Diesel	1.40E-03	1.69E-03	2.01E-03	5.04E-02	2.50E-02	8.37E+00	2.13E-04	1.96E-04	7.73E-05	6.83E-05	271457.1365	213862.5782	556.2193941	13989246.18
Construction and Mi	Sacramento	2045	Construction and Mining - Surfacing Equipment	Aggregate	Aggregate	Diesel	1.23E-04	1.49E-04	1.78E-04	2.41E-03	1.27E-03	9.60E-01	3.18E-05	2.92E-05	8.88E-06	7.84E-06	31157.85874	7585.540945	25.54221961	1996688.797
Construction and Mi	Sacramento	2045	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	Aggregate	Diesel	1.46E-02	1.77E-02	2.10E-02	3.63E-01	1.56E-01	6.41E+01	2.51E-03	2.31E-03	5.92E-04	5.23E-04	2080570.643	1108491.178	1677.680499	108613859.5
Construction and Mi	Sacramento	2045	Construction and Mining - Trenchers	Aggregate	Aggregate	Diesel	7.85E-04	9.50E-04	1.13E-03	1.29E-02	9.62E-03	2.64E+00	2.52E-04	2.32E-04	2.44E-05	2.15E-05	85624.26619	40362.67884	100.7865936	3173500.45
Construction and Mi	Sacramento	2050	Construction and Mining - Bore/Drill Rigs	Aggregate	Aggregate	Diesel	6.03E-04	7.29E-04	8.68E-04	1.32E-02	5.64E-03	4.57E+00	1.05E-04	9.68E-05	4.23E-05	3.73E-05	148381.346	25855.79857	63.8188646	5716943.072
Construction and Mi	Sacramento	2050	Construction and Mining - Cranes	Aggregate	Aggregate	Diesel	2.29E-03	2.78E-03	3.30E-03	3.19E-02	1.65E-02	1.08E+01	6.36E-04	5.85E-04	9.99E-05	8.83E-05	350878.245	101886.8834	191.9935728	23547210.2
Construction and Mi	Sacramento	2050	Construction and Mining - Crawler Tractors	Aggregate	Aggregate	Diesel	5.49E-03	6.64E-03	7.91E-03	8.64E-02	3.81E-02	2.67E+01	1.27E-03	1.17E-03	2.47E-04	2.18E-04	866552.8057	184037.6766	353.6494444	39038736.79
Construction and Mi	Sacramento	2050	Construction and Mining - Excavators	Aggregate	Aggregate	Diesel	8.32E-03	1.01E-02	1.20E-02	1.63E-01	5.38E-02	4.81E+01	1.12E-03	1.03E-03	4.45E-04	3.93E-04	1561287.983	498427.4994	687.3624813	78556689.66
Construction and Mi	Sacramento	2050	Construction and Mining - Graders	Aggregate	Aggregate	Diesel	3.96E-03	4.79E-03	5.70E-03	6.27E-02	1.81E-02	1.81E+01	7.51E-04	6.91E-04	1.67E-04	1.48E-04	586531.9487	147243.4624	222.2121413	27698381.65
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Asphalt Pavers	Aggregate	Aggregate	Gasoline	2.63E-04	2.54E-04	2.89E-04	1.51E-02	3.07E-04	1.12E-01	6.26E-05	4.73E-05	1.29E-06	1.81E-06	5157.089804	1689.95	5.566708856	71226.1
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Bore/Drill Rigs	Aggregate	Aggregate	Gasoline	7.73E-05	7.41E-05	8.50E-05	3.93E-03	1.36E-04	9.90E-02	2.11E-05	1.59E-05	9.96E-07	1.40E-06	3991.713341	620.5	6.67603448	53173.2
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Bore/Drill Rigs	Aggregate	Aggregate	Diesel	9.26E-06	1.11E-05	1.33E-05	4.08E-05	7.03E-05	1.63E-07	2.38E-06	1.80E-06	1.01E-09	8.68E-10	3.453624696	0	0.564166707	0
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Cement And Mortar Mixers	Aggregate	Aggregate	Gasoline	2.07E-03	2.09E-03	2.28E-03	6.33E-02	1.35E-03	2.37E-06	5.72E-04	4.32E-04	1.03E-06	1.42E-06	3977.922851	0	209.1270795	0
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Cement And Mortar Mixers	Aggregate	Aggregate	Diesel	1.14E-05	1.37E-05	1.63E-05	6.66E-05	8.58E-05	2.05E-07	2.99E-06	2.26E-06	1.48E-09	1.28E-09	5.077908687	0	3.925788662	0
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Gasoline	1.88E-03	1.88E-03	2.07E-03	6.82E-02	1.56E-03	2.64E-01	6.61E-04	5.00E-04	3.74E-06	5.00E-06	14254.63887	3117.1	34.23891859	144288.15
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	Aggregate	Diesel	2.86E-05	3.41E-05	4.12E-05	4.42E-04	3.31E-04	5.94E-02	1.93E-06	1.72E-06	7.67E-07	4.99E-07	1982.478096	1434.45	2.590445285	47336.85
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Cranes	Aggregate	Aggregate	Gasoline	7.80E-05	7.18E-05	8.59E-05	5.98E-03	1.66E-04	8.80E-02	6.13E-06	4.63E-06	8.94E-07	1.29E-06	3690.15	1270.2	2.94	80460.6
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Crushing/Proc. Equipment	Aggregate	Aggregate	Gasoline	1.08E-05	1.09E-05	1.18E-05	3.77E-04	7.46E-06	1.39E-08	4.50E-06	3.40E-06	5.98E-09	8.26E-09	23.51679392	0	0.159324098	0
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Gasoline	8.34E-04	7.87E-04	9.18E-04	2.85E-02	6.04E-04	4.49E-02	3.23E-04	2.44E-04	1.27E-06	1.24E-06	3526.301157	8562.9	71.44017546	79179.45
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	Aggregate	Diesel	1.15E-06	1.38E-06	1.65E-06	4.72E-06	8.73E-06	2.02E-08	2.94E-07	2.22E-07	1.20E-10	1.03E-10	0.410692423	0	0.16599942	0
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Excavators	Aggregate	Aggregate	Diesel	8.19E-06	9.86E-06	1.18E-05	3.36E-05	6.23E-05	1.44E-07	2.09E-06	1.58E-06	8.55E-10	7.36E-10	2.928685491	0	0.260337108	0
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Other	Aggregate	Aggregate	Gasoline	5.48E-05	5.04E-05	6.03E-05	4.66E-03	1.82E-04	1.41E-01	1.01E-05	7.65E-06	1.40E-06	1.97E-06	5628.3	1029.3	2.968743104	129691.8
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Other	Aggregate	Aggregate	Diesel	2.47E-04	2.94E-04	3.55E-04	1.71E-03	2.19E-03	2.73E-01	8.42E-05	7.64E-05	4.11E-06	2.29E-06	9110.47982	18881.45	29.85362483	256394.25
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Pavers	Aggregate	Aggregate	Diesel	2.18E-06	2.62E-06	3.13E-06	8.93E-06	1.65E-05	3.82E-08	5.56E-07	4.20E-07	2.27E-10	1.95E-10	0.777811686	0	0.103580934	0
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Gasoline	3.75E-03	3.78E-03	4.13E-03	1.15E-01	2.65E-03	1.01E-01	1.13E-03	8.51E-04	2.90E-06	3.91E-06	11079.85787	1686.3	157.8893293	72448.85
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Paving Equipment	Aggregate	Aggregate	Diesel	3.52E-06	4.23E-06	5.06E-06	1.44E-05	2.67E-05	6.17E-08	8.99E-07	6.79E-07	3.67E-10	3.16E-10	1.257459162	0	0.245053739	0
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Gasoline	6.18E-03	5.82E-03	6.80E-03	1.93E-01	4.21E-03	2.84E-01	1.93E-03	1.46E-03	9.36E-06	8.13E-06	23150.22374	64973.65	417.3484687	398769.8
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Plate Compactors	Aggregate	Aggregate	Diesel	7.30E-05	8.70E-05	1.05E-04	5.42E-04	6.47E-04	8.07E-02	2.50E-05	2.27E-05	1.26E-06	6.78E-07	2693.703541	13665.6	25.01106543	109324.8
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Gasoline	1.07E-03	1.05E-03	1.17E-03	5.34E-02	1.22E-03	3.18E-01	2.89E-04	2.19E-04	3.61E-06	5.37E-06	15330.93517	3536.85	20.60835089	218383.15
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Rollers	Aggregate	Aggregate	Diesel	5.29E-05	6.36E-05	7.60E-05	2.78E-04	4.00E-04	9.46E-07	1.38E-05	1.04E-05	6.42E-09	5.53E-09	22.01440984	0	6.745663276	0
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Rough Terrain Forklifts	Aggregate	Aggregate	Gasoline	4.63E-04	4.26E-04	5.10E-04	3.14E-02	1.14E-03	6.37E-01	4.45E-05	3.36E-05	6.22E-06	9.12E-06	26031.8	5088.1	12.24	425830.9
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Gasoline	2.80E-04	2.57E-04	3.08E-04	2.06E-02	6.58E-04	3.31E-01	2.31E-05	1.74E-05	3.27E-06	4.84E-06	13807.95	3869	7.572271768	262566.4
Construction and Mi	Sacramento	2050	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	Aggregate	Diesel	1.46E-06	1.75E

Original OFFROAD Classifications	Consolidated Classes
Agricultural	agricultural offroad
Agricultural Equipment	agricultural offroad
Airport Ground Support Equipment	Airport Ground Support
Commercial Harbor Craft	Commercial Harbor Craft
Construction and Mining	Construction and Mining
Construction and Mining Equipment	Construction and Mining
Entertainment Equipment	Entertainment Equipment
Industrial	Industrial
Industrial Equipment	Industrial
Lawn and Garden Equipment	Lawn and Garden Equipment
Light Commercial Equipment	Light Commercial Equipment
Locomotive - Line haul	Railyard Operations
Locomotive - Passenger	Railyard Operations
Locomotive - Short line	Railyard Operations
Logging Equipment	Logging
Military Tactical Support Equip	Military Tactical Support
Ocean Going Vessels	Ocean Going Vessels
OFFROAD - Airport Ground Support	Airport Ground Support
OFFROAD - Agricultural	agricultural offroad
OFFROAD - Construction and Mining	Construction and Mining
OFFROAD - Industrial	Industrial
OFFROAD - Light Commercial	Light Commercial Equipment
OFFROAD - Logging	Logging
OFFROAD - Military Tactical Support	Military Tactical Support
Oil Drilling	Oil Drilling
Pleasure Craft	Pleasure Craft
Portable Equipment	Portable Equipment
Other Portable Equipment	Other Portable Equipment
Railyard Operations	Railyard Operations
Recreational Equipment	Recreational Equipment
Transport Refrigeration Units	Transport Refrigeration Units
Transportation Refridgeration Unit	Transport Refrigeration Units
Agricultural - Agricultural Tractors	agricultural offroad
Agricultural - ATVs	agricultural offroad
Agricultural - Bale Wagons (Self Propelled)	agricultural offroad
Agricultural - Balers (Self Propelled)	agricultural offroad
Agricultural - Combine Harvesters	agricultural offroad
Agricultural - Construction Equipment	agricultural offroad
Agricultural - Cotton Pickers	agricultural offroad
Agricultural - Forage & Silage Harvesters	agricultural offroad
Agricultural - Forklifts	agricultural offroad
Agricultural - Hay Squeeze/Stack Retriever	agricultural offroad
Agricultural - Nut Harvester	agricultural offroad
Agricultural - Other Harvesters	agricultural offroad
Agricultural - Sprayers/Spray Rigs	agricultural offroad
Agricultural - Swathers/Windrowers/Hay Conditior	agricultural offroad

Airport Ground Support - A/C Tug Narrow Body	Airport Ground Support
Airport Ground Support - A/C Tug Wide Body	Airport Ground Support
Airport Ground Support - Baggage Tug	Airport Ground Support
Airport Ground Support - Belt Loader	Airport Ground Support
Airport Ground Support - Bobtail	Airport Ground Support
Airport Ground Support - Cargo Loader	Airport Ground Support
Airport Ground Support - Cargo Tractor	Airport Ground Support
Airport Ground Support - Forklift	Airport Ground Support
Airport Ground Support - Lift	Airport Ground Support
Airport Ground Support - Misc - A/C Tug Narrow B	Airport Ground Support
Airport Ground Support - Misc - A/C Tug Wide Boc	Airport Ground Support
Airport Ground Support - Misc - Air Conditioner	Airport Ground Support
Airport Ground Support - Misc - Air Start Unit	Airport Ground Support
Airport Ground Support - Misc - Baggage Tug	Airport Ground Support
Airport Ground Support - Misc - Belt Loader	Airport Ground Support
Airport Ground Support - Misc - Bobtail	Airport Ground Support
Airport Ground Support - Misc - Cargo Loader	Airport Ground Support
Airport Ground Support - Misc - Cargo Tractor	Airport Ground Support
Airport Ground Support - Misc - Cart	Airport Ground Support
Airport Ground Support - Misc - Catering Truck	Airport Ground Support
Airport Ground Support - Misc - Deicer	Airport Ground Support
Airport Ground Support - Misc - Forklift	Airport Ground Support
Airport Ground Support - Misc - Fuel Truck	Airport Ground Support
Airport Ground Support - Misc - Generator	Airport Ground Support
Airport Ground Support - Misc - Ground Power Uni	Airport Ground Support
Airport Ground Support - Misc - Hydrant Truck	Airport Ground Support
Airport Ground Support - Misc - Lav Cart	Airport Ground Support
Airport Ground Support - Misc - Lav Truck	Airport Ground Support
Airport Ground Support - Misc - Lift	Airport Ground Support
Airport Ground Support - Misc - Maint. Truck	Airport Ground Support
Airport Ground Support - Misc - Other	Airport Ground Support
Airport Ground Support - Misc - Passenger Stand	Airport Ground Support
Airport Ground Support - Misc - Service Truck	Airport Ground Support
Airport Ground Support - Misc - Sweeper	Airport Ground Support
Airport Ground Support - Misc - Water Truck	Airport Ground Support
Airport Ground Support - Other	Airport Ground Support
Airport Ground Support - Passenger Stand	Airport Ground Support
Commercial Harbor Craft - AE - Commercial Fishing	Commercial Harbor Craft
Commercial Harbor Craft - AE - Commercial Passer	Commercial Harbor Craft
Commercial Harbor Craft - AE - Excursion	Commercial Harbor Craft
Commercial Harbor Craft - AE - Research Boat	Commercial Harbor Craft
Commercial Harbor Craft - AE - Tugboat-Push/Tow	Commercial Harbor Craft
Commercial Harbor Craft - AE - Work Boat	Commercial Harbor Craft
Commercial Harbor Craft - ME - Commercial Fishin	Commercial Harbor Craft
Commercial Harbor Craft - ME - Commercial Passe	Commercial Harbor Craft
Commercial Harbor Craft - ME - Dredge	Commercial Harbor Craft
Commercial Harbor Craft - ME - Excursion	Commercial Harbor Craft

Commercial Harbor Craft - ME - Research Boat	Commercial Harbor Craft
Commercial Harbor Craft - ME - Tugboat-Push/Tow	Commercial Harbor Craft
Commercial Harbor Craft - ME - Work Boat	Commercial Harbor Craft
Construction and Mining - Bore/Drill Rigs	Construction and Mining
Construction and Mining - Cranes	Construction and Mining
Construction and Mining - Crawler Tractors	Construction and Mining
Construction and Mining - Excavators	Construction and Mining
Construction and Mining - Graders	Construction and Mining
Construction and Mining - Misc - Asphalt Pavers	Construction and Mining
Construction and Mining - Misc - Bore/Drill Rigs	Construction and Mining
Construction and Mining - Misc - Cement And Mor	Construction and Mining
Construction and Mining - Misc - Concrete/Industri	Construction and Mining
Construction and Mining - Misc - Cranes	Construction and Mining
Construction and Mining - Misc - Crushing/Proc. Ec	Construction and Mining
Construction and Mining - Misc - Dumpers/Tender	Construction and Mining
Construction and Mining - Misc - Excavators	Construction and Mining
Construction and Mining - Misc - Other	Construction and Mining
Construction and Mining - Misc - Pavers	Construction and Mining
Construction and Mining - Misc - Paving Equipmen	Construction and Mining
Construction and Mining - Misc - Plate Compactors	Construction and Mining
Construction and Mining - Misc - Rollers	Construction and Mining
Construction and Mining - Misc - Rough Terrain Fo	Construction and Mining
Construction and Mining - Misc - Rubber Tired Loa	Construction and Mining
Construction and Mining - Misc - Signal Boards	Construction and Mining
Construction and Mining - Misc - Skid Steer Loader	Construction and Mining
Construction and Mining - Misc - Surfacing Equipm	Construction and Mining
Construction and Mining - Misc - Tampers/Ramme	Construction and Mining
Construction and Mining - Misc - Tractors/Loaders,	Construction and Mining
Construction and Mining - Misc - Trenchers	Construction and Mining
Construction and Mining - Off-Highway Tractors	Construction and Mining
Construction and Mining - Off-Highway Trucks	Construction and Mining
Construction and Mining - Other	Construction and Mining
Construction and Mining - Pavers	Construction and Mining
Construction and Mining - Paving Equipment	Construction and Mining
Construction and Mining - Rollers	Construction and Mining
Construction and Mining - Rough Terrain Forklifts	Construction and Mining
Construction and Mining - Rubber Tired Dozers	Construction and Mining
Construction and Mining - Rubber Tired Loaders	Construction and Mining
Construction and Mining - Scrapers	Construction and Mining
Construction and Mining - Skid Steer Loaders	Construction and Mining
Construction and Mining - Surfacing Equipment	Construction and Mining
Construction and Mining - Tractors/Loaders/Backh	Construction and Mining
Construction and Mining - Trenchers	Construction and Mining
Industrial - Aerial Lifts	Industrial
Industrial - Forklifts	Industrial
Industrial - Misc - Aerial Lifts	Industrial
Industrial - Misc - Forklifts	Industrial

Industrial - Misc - Other General Industrial Equipm	Industrial
Industrial - Misc - Other Material Handling Equipm	Industrial
Industrial - Misc - Sweepers/Scrubbers	Industrial
Industrial - Other General Industrial Equipment	Industrial
Industrial - Other Material Handling Equipment	Industrial
Lawn and Garden - Misc - Chainsaws	Lawn and Garden Equipment
Lawn and Garden - Misc - Chainsaws Preempt	Lawn and Garden Equipment
Lawn and Garden - Misc - Chippers/Stump Grinder	Lawn and Garden Equipment
Lawn and Garden - Misc - Lawn Mowers	Lawn and Garden Equipment
Lawn and Garden - Misc - Leaf Blowers/Vacuums	Lawn and Garden Equipment
Lawn and Garden - Misc - Other	Lawn and Garden Equipment
Lawn and Garden - Misc - Rear Engine Riding Mow	Lawn and Garden Equipment
Lawn and Garden - Misc - Snowblowers	Lawn and Garden Equipment
Lawn and Garden - Misc - Tillers	Lawn and Garden Equipment
Lawn and Garden - Misc - Trimmers/Edgers/Brush	Lawn and Garden Equipment
Lawn and Garden - Misc - Wood Splitters	Lawn and Garden Equipment
Light Commercial - Misc - Air Compressors	Light Commercial Equipment
Light Commercial - Misc - Gas Compressors	Light Commercial Equipment
Light Commercial - Misc - Generator Sets	Light Commercial Equipment
Light Commercial - Misc - Pressure Washers	Light Commercial Equipment
Light Commercial - Misc - Pumps	Light Commercial Equipment
Light Commercial - Misc - Welders	Light Commercial Equipment
Locomotive - Line Haul	Railyard Operations
Locomotive - Passenger	Railyard Operations
Locomotive - Switcher	Railyard Operations
Military Tactical Support - Misc - A/C Unit	Military Tactical Support
Military Tactical Support - Misc - Aircraft Support	Military Tactical Support
Military Tactical Support - Misc - Cart	Military Tactical Support
Military Tactical Support - Misc - Communications	Military Tactical Support
Military Tactical Support - Misc - Compressor	Military Tactical Support
Military Tactical Support - Misc - Crane	Military Tactical Support
Military Tactical Support - Misc - Deicer	Military Tactical Support
Military Tactical Support - Misc - Generator	Military Tactical Support
Military Tactical Support - Misc - Hydraulic Unit	Military Tactical Support
Military Tactical Support - Misc - Lift	Military Tactical Support
Military Tactical Support - Misc - Light	Military Tactical Support
Military Tactical Support - Misc - Other Tactical Sup	Military Tactical Support
Military Tactical Support - Misc - Pressure Washers	Military Tactical Support
Military Tactical Support - Misc - Pump	Military Tactical Support
Military Tactical Support - Misc - Start Cart	Military Tactical Support
Military Tactical Support - Misc - Test Stand	Military Tactical Support
Military Tactical Support - Misc - Welder	Military Tactical Support
Ocean Going Vessels - Vessels (Other)	Ocean Going Vessels
Oil Drilling - Drill Rig (Mobile)	Oil Drilling
Oil Drilling - Workover Rig (Mobile)	Oil Drilling
Oil Drilling - Misc - Compressors (Workover)	Oil Drilling
Oil Drilling - Misc - Generator (Drilling)	Oil Drilling

Pleasure Craft - Personal Water Craft	Pleasure Craft
Pleasure Craft - Sailboat Auxiliary Inboard Engine	Pleasure Craft
Pleasure Craft - Vessels W/Inboard Engines	Pleasure Craft
Pleasure Craft - Vessels W/Inboard Jet Engines	Pleasure Craft
Pleasure Craft - Vessels W/Outboard Engines	Pleasure Craft
Pleasure Craft - Vessels W/Sterndrive Engines	Pleasure Craft
Portable Equipment - Non-Rental Compressor	Portable Equipment
Portable Equipment - Non-Rental Generator	Portable Equipment
Portable Equipment - Non-Rental Other	Portable Equipment
Portable Equipment - Non-Rental Pump	Portable Equipment
Portable Equipment - Rental Compressor	Portable Equipment
Portable Equipment - Rental Generator	Portable Equipment
Portable Equipment - Rental Other	Portable Equipment
Portable Equipment - Rental Pump	Portable Equipment
Recreational - All Terrain Vehicles (Atvs) Active	Recreational Equipment
Recreational - Golf Carts	Recreational Equipment
Recreational - Minibikes	Recreational Equipment
Recreational - Off-Road Motorcycles Active	Recreational Equipment
Recreational - Snowmobiles Active	Recreational Equipment
Transportation Refridgeration Unit - Instate Gense	Transport Refrigeration Units
Transportation Refridgeration Unit - Instate Trailer	Transport Refrigeration Units
Transportation Refridgeration Unit - Instate Truck	Transport Refrigeration Units
Transportation Refridgeration Unit - Out-Of-State (	Transport Refrigeration Units
Transportation Refridgeration Unit - Out-Of-State T	Transport Refrigeration Units
Transportation Refridgeration Unit - Railcar TRU	Transport Refrigeration Units

OFFROAD 2007 Fuel Type	Fuel Type
G2	Gasoline
G4	Gasoline
C4	CNG
D	Diesel

EMFAC2011 Categories
All Other Buses
LDA
LDT1
LDT2
LHD1
LHD2
MCY
MDV
MH
Motor Coach
OBUS
PTO
SBUS
T6 CAIRP heavy
T6 CAIRP small
T6 instate construction heavy
T6 instate construction small
T6 instate heavy
T6 instate small
T6 OOS heavy
T6 OOS small
T6 Public
T6 utility
T6TS
T7 Ag
T7 CAIRP
T7 CAIRP construction
T7 NNOOS
T7 NOOS
T7 POAK
T7 Public
T7 Single
T7 single construction
T7 SWCV
T7 tractor
T7 tractor construction
T7 utility
T7IS
UBUS

Project Vehicle Category	EMFAC2011 Category Match
Countywide	All Other Buses
Countywide	LDA
Countywide	LDT1
Countywide	LDT2
Countywide	LHD1
Countywide	LHD2
Countywide	MCY
Countywide	MDV
Countywide	MH
Countywide	Motor Coach
Countywide	OBUS
Countywide	PTO
Countywide	SBUS
Countywide	T6 CAIRP heavy
Countywide	T6 CAIRP small
Countywide	T6 instate construction heavy
Countywide	T6 instate construction small
Countywide	T6 instate heavy
Countywide	T6 instate small
Countywide	T6 OOS heavy
Countywide	T6 OOS small
Countywide	T6 Public
Countywide	T6 utility
Countywide	T6TS
Countywide	T7 Ag
Countywide	T7 CAIRP
Countywide	T7 CAIRP construction
Countywide	T7 NNOOS
Countywide	T7 NOOS
Countywide	T7 POAK
Countywide	T7 Public
Countywide	T7 Single
Countywide	T7 single construction
Countywide	T7 SWCV
Countywide	T7 tractor
Countywide	T7 tractor construction
Countywide	T7 utility
Countywide	T7IS
Countywide	UBUS
TCT Annual Vehicle Revenue Miles	OBUS
TCT Annual Vehicle Revenue Miles	UBUS
TCT Annual Vehicle Revenue Miles	SBUS
TCT Annual Vehicle Revenue Miles	All Other Buses
YART Annual Vehicle Revenue Miles	OBUS
YART Annual Vehicle Revenue Miles	UBUS
YART Annual Vehicle Revenue Miles	SBUS
YART Annual Vehicle Revenue Miles	All Other Buses

Source: EMFAC2021 (v1.0.1) Emissions Inventory
Region Type: County
Region: Sacramento
Calendar Year: 2019, 2030, 2045, 2050
Season: Annual
Vehicle Classification: EMFAC2011 Categories
Units: miles/year for CVMT and EVMT, trips/year for Trips, kWh/year for Energy Consumption, tons/year for Emissions, 1000 gallons/year for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CO2_TOTEX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	CH4_TOTEX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	N2O_TOTEX
Sacramento	2019	All Other Buses	Aggregate	Aggregate	Diesel	515.8184894	7047726.976	7047726.976	0	1340509.09	9915.727421	109.9576472	0	10025.68507	0.451942592	0.004254504	0	0.456197096	1.5608221	0.017308294	0	1.578130394
Sacramento	2019	All Other Buses	Aggregate	Aggregate	Natural Ga:	36.91029722	722042.3756	722042.3756	0	95922.48043	837.0939162	14.01776977	0	851.111686	0.580797892	0.056999573	0	0.637797465	0.170647071	0.002857614	0	0.173504685
Sacramento	2019	LDA	Aggregate	Aggregate	Gasoline	515366.5271	6218099742	6218099742	0	827884031.7	2134014.771	0	71444.42294	2205459.194	31.6801791	0	90.30339429	121.9835734	49.4462023	0	34.51448841	83.96069071
Sacramento	2019	LDA	Aggregate	Aggregate	Diesel	2136.879467	22358935.62	22358935.62	0	3251233.478	6045.307484	0	0	6045.307484	0.04368504	0	0	0.04368504	0.951584198	0	0	0.951584198
Sacramento	2019	LDA	Aggregate	Aggregate	Electricity	6541.801432	75639907.03	0	75639907.03	11488535.71	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2019	LDA	Aggregate	Aggregate	Plug-in Hyb	6433.377117	98305951.6	53089395.79	45216555.81	9230898.989	17182.90286	0	700.2788223	17883.18168	0.05815011	0	0.430213592	0.488363703	0.073574102	0	0.212928838	0.286502939
Sacramento	2019	LDT1	Aggregate	Aggregate	Gasoline	59235.93728	629669815.3	629669815.3	0	90911643.7	252293.2986	0	9762.638254	262055.9368	7.789485033	0	15.47070127	23.2601863	10.032144	0	4.612356715	14.64450072
Sacramento	2019	LDT1	Aggregate	Aggregate	Diesel	35.36231965	133798.0977	133798.0977	0	38689.86836	63.10668469	0	0	63.10668469	0.002047049	0	0	0.002047049	0.009933543	0	0	0.009933543
Sacramento	2019	LDT1	Aggregate	Aggregate	Electricity	124.6165284	1096520.274	0	1096520.274	200084.8894	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2019	LDT1	Aggregate	Aggregate	Plug-in Hyb	0.506744026	7967.212037	4317.206189	3650.005848	727.0991318	1.397306062	0	0.063032144	1.460338206	4.7454E-06	0	3.40259E-05	3.87713E-05	6.02278E-06	0	1.69017E-05	2.29244E-05
Sacramento	2019	LDT2	Aggregate	Aggregate	Gasoline	213897.0762	2624094168	2624094168	0	346109598.2	1138291.537	0	37925.46192	1176216.999	14.31011378	0	42.696079	57.00619278	26.93775216	0	17.66987527	44.60762742
Sacramento	2019	LDT2	Aggregate	Aggregate	Diesel	542.3295588	7418531.542	7418531.542	0	907661.7691	2759.944237	0	0	2759.944237	0.007791172	0	0	0.007791172	0.434439328	0	0	0.434439328
Sacramento	2019	LDT2	Aggregate	Aggregate	Electricity	13.79122798	145870.3313	0	145870.3313	23309.54822	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2019	LDT2	Aggregate	Aggregate	Plug-in Hyb	216.3666897	3569150.691	1898414.042	1670736.648	310452.6629	614.4402964	0	28.30922715	642.7495236	0.002094109	0	0.014578412	0.016672521	0.002666015	0	0.007263318	0.009929333
Sacramento	2019	LHD1	Aggregate	Aggregate	Gasoline	24545.37007	284248894.1	284248894.1	0	119580447.4	297560.3668	1091.882998	3411.598578	302063.8483	4.440027312	1.093632329	5.274508878	10.80816852	5.212590262	0.027410704	7.122989191	12.36299016
Sacramento	2019	LHD1	Aggregate	Aggregate	Diesel	15788.07032	184147210.1	184147210.1	0	64940258.69	129379.751	793.8116483	0	130173.5626	2.449833964	0.029012939	0	2.478846903	20.36550281	0.124952887	0	20.4904557
Sacramento	2019	LHD2	Aggregate	Aggregate	Gasoline	3308.554868	40758587.61	40758587.61	0	16118659.86	46498.01193	168.7808203	469.3458676	47136.13861	0.540470558	0.14892161	0.663164179	1.352556347	0.61506808	0.003820803	0.958975859	1.577864742
Sacramento	2019	LHD2	Aggregate	Aggregate	Diesel	5186.061845	66108839.15	66108839.15	0	21331561.8	57125.79275	414.0021506	0	57539.7949	0.715074015	0.009530164	0	0.724604179	8.992098715	0.065167554	0	9.05726627
Sacramento	2019	MCY	Aggregate	Aggregate	Gasoline	26524.19585	50954561.7	50954561.7	0	18407791.92	11075.46163	0	1207.065951	12282.52758	12.55010242	0	4.643782679	17.1938851	2.602249326	0	0.226608726	2.828858052
Sacramento	2019	MDV	Aggregate	Aggregate	Gasoline	154813.5932	1764478605	1764478605	0	245782569.7	927486.2709	0	32985.47052	960471.7415	16.21743424	0	42.18621678	58.40365102	26.4763614	0	14.69436425	41.17072565
Sacramento	2019	MDV	Aggregate	Aggregate	Diesel	2386.724958	33335364.42	33335364.42	0	4033592.066	15839.05534	0	0	15839.05534	0.027875304	0	0	0.027875304	2.493205649	0	0	2.493205649
Sacramento	2019	MDV	Aggregate	Aggregate	Electricity	7.846754749	61783.91547	0	61783.91547	12084.07965	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2019	MDV	Aggregate	Aggregate	Plug-in Hyb	367.2485072	5872240.551	3173194.655	2699045.897	526944.6844	1027.035526	0	59.78035808	1086.815884	0.003493992	0	0.024699114	0.028193106	0.004441235	0	0.01228602	0.016727256
Sacramento	2019	MH	Aggregate	Aggregate	Gasoline	3819.595406	10917583.17	10917583.17	0	124950.7301	23485.39089	0	4.625926248	23490.01681	0.308568716	0	0.005992651	0.314561367	0.394137346	0	0.005316477	0.399453823
Sacramento	2019	MH	Aggregate	Aggregate	Diesel	1114.195752	3338961.539	3338961.539	0	36434.2011	3972.306202	0	0	3972.306202	0.024958549	0	0	0.024958549	0.62527569	0	0	0.62527569
Sacramento	2019	Motor Coach	Aggregate	Aggregate	Diesel	93.17619443	3665996.794	3665996.794	0	625227.1728	7107.421385	333.0904337	0	7440.511819	0.03331188	0.008795636	0	0.042107516	1.118770202	0.052431343	0	1.171201546
Sacramento	2019	OBUS	Aggregate	Aggregate	Gasoline	702.17799	11078346.09	11078346.09	0	4594080.953	22582.72107	98.39769202	166.0351668	22847.15393	0.27371487	0.048799798	0.192050392	0.514565061	0.418645812	0.001283554	0.156623959	0.576553325
Sacramento	2019	PTO	Aggregate	Aggregate	Diesel	0	6894811.075	6894811.075	0	0	16576.54929	0	0	16576.54929	0.128971538	0	0	0.128971538	2.609293638	0	0	2.609293638
Sacramento	2019	SBUS	Aggregate	Aggregate	Gasoline	173.0249428	2779090.44	2779090.44	0	226316.6252	2671.3988	165.6177999	17.38092561	2854.397525	0.484986837	0.130689827	0.026891184	0.642567848	0.284795126	0.004100038	0.009866158	0.298761321
Sacramento	2019	SBUS	Aggregate	Aggregate	Diesel	945.1029375	7136443.497	7136443.497	0	4475024.605	9247.754107	790.6932765	0	10038.44738	0.030361136	0.003006288	0	0.033367424	1.455677266	0.124462028	0	1.580139294
Sacramento	2019	SBUS	Aggregate	Aggregate	Natural Ga:	14.04165549	126516.9311	126516.9311	0	66486.67708	159.3117461	23.930315	0	183.2420611	0.304407243	0.057741622	0	0.362148865	0.032476742	0.004878351	0	0.037355093
Sacramento	2019	T6 CAIRP heavy	Aggregate	Aggregate	Diesel	72.26991576	4789996.81	4789996.81	0	518157.9512	5572.950499	16.22738516	0	5589.177884	0.020799593	0.00013122	0	0.020930813	0.877231083	0.002554332	0	0.879785415
Sacramento	2019	T6 CAIRP small	Aggregate	Aggregate	Diesel	61.93200968	1268932.566	1268932.566	0	444037.6457	1576.386218	13.96381028	0	1590.350028	0.005199942	0.000100335	0	0.005300276	0.248136959	0.002198026	0	0.250334985
Sacramento	2019	T6 instate heavy	Aggregate	Aggregate	Diesel	1597.805117	25791034.02	25791034.02	0	5921033.312	32631.32971	1319.6901	0	33951.01981	0.244940994	0.017843934	0	0.262784928	5.136456299	0.207730748	0	5.344187047
Sacramento	2019	T6 instate heavy	Aggregate	Aggregate	Natural Ga:	9.520495241	197854.6711	197854.6711	0	36004.0669	206.6663104	13.98240703	0	220.6487174	0.132213404	0.053320474	0	0.185533877	0.042130279	0.002850405	0	0.044980684
Sacramento	2019	T6 instate small	Aggregate	Aggregate	Diesel	7785.752606	93662058.04	93662058.04	0	29978276.35	122473.3176	6389.538978	0	128862.8566	1.242088183	0.067321774	0	1.309409957	19.27836988	1.005769241	0	20.28413912
Sacramento	2019	T6 OOS heavy	Aggregate	Aggregate	Diesel	36.52033804	2805951.143	2805951.143	0	261842.0589	3262.433214	8.198842336	0	3270.632057	0.013485956	6.72288E-05	0	0.013553185	0.513535482	0.001290569	0	0.514826051
Sacramento	2019	T6 OOS small	Aggregate	Aggregate	Diesel	31.296258	641232.8804	641232.8804	0	224386.6588	796.5992069	7.056367321	0	803.6555742	0.0026277	5.07024E-05	0	0.002678402	0.125391673	0.001110734	0	0.126502407
Sacramento	2019	T6 Public	Aggregate	Aggregate	Diesel	4888.602273	55744636.09	55744636.09	0	7824501.254	78991.25257	5790.15682	0	84781.40939	0.380704512	0.04167943	0	0.422383942	12.43391307	0.911421255	0	13.34533432
Sacramento	2019	T6 Public	Aggregate	Aggregate	Natural Ga:	111.9430465	1712181.191	1712181.191	0	179171.5626	1978.924606	243.5274248	0	2222.452031	1.57820593	0.878595756	0	2.456801687	0.403416726	0.049644659	0	0.453061385
Sacramento	2019	T6 Utility	Aggregate	Aggregate	Diesel	54.63475099	717813.7451	717813.7451	0	218189.3416	906.8095633	34.17086635	0	940.9804297	0.000976976	0.000124922	0	0.001101898	0.142739745	0.005378793	0	0.148118538
Sacramento	2019	T6 Utility	Aggregate	Aggregate	Natural Ga:	0.260823018	3497.360406	3497.360406	0	1041.622804	3.907490608	0.300057971	0	4.20754858	0.002520951	0.001184038	0	0.00370499	0.000796568	6.11688E-05	0	0.000857736
Sacramento	2019	T6TS	Aggregate	Aggregate	Gasoline	2835.777863	40840226.72	40840226.72	0	18553405.62	85867.41455	569.3417039	1088.279098	87525.03535	1.776830877	0.241712298	1.251057216	3.269600392	1.865216549	0.006329633	0.626395315	2.497941497
Sacramento	2019	T7 CAIRP	Aggregate	Aggregate	Diesel	785.3769669	52669803.62	52669803.62	0	5630964.362	93011.34547	7029.790979	0	100041.1364	0.233450388	0.132109649	0	0.365560037	14.64079814	1.106550498	0	15.74734864
Sacramento	2019	T7 CAIRP	Aggregate	Aggregate	Natural Ga:	8.614386314	684605.9897	684605.9897	0	61763.08242	901.1060774	163.9804032	0	1065.086481	0.704725081	0.444975418	0	1.149700499	0.183696369	0.033428478	0	0.217124847
Sacramento	2019	T7 NNOOS	Aggregate	Aggregate	Diesel	716.1727035	61466642.22	61466642.22	0	5134786.403	109185.4421	7322.147029	0	116507.5891	0.456720007	0.156067057	0	0.612787065	17.18674221	1.152569894	0	18.3393121
Sacramento	2019	T7 NOOS	Aggregate	Aggregate	Diesel	290.3042657	22349724.62	22349724.62	0	2081411.912	39448.67126	3226.10729	0	42674.77855	0.117579584	0.061104884	0	0.178684469	6.209565401	0.507817464	0	6.717382865
Sacramento	2019	T7 Other Port	Aggregate	Aggregate	Diesel	9.954584541	515405.7481	515405.7481	0	50811.38496	979.1477288	34.00593607	0	1013.153665	0.003143787	0.000552236	0	0.003696024	0.154126404	0.005352831	0	0.159479236
Sacramento	2019	T7 POAK	Aggregate	Aggregate	Diesel	33.27394205	1009470.393	1009470.393	0	169840.8479	1919.668158	113.3195455	0	2032.987704	0.007611346	0.001905133	0	0.009516478	0.302172535	0.017837486	0	0.320010021
Sacramento	2019	T7 Public	Aggregate	Aggregate	Diesel	4184.669035	53526866.17	53526866.17	0	6697813.871	116039.3295	4944.827457	0	120984.1569	0.461240945	0.081102585	0	0.54234353	18.26560394	0.77835903	0	19.04396297
Sacramento	2019	T7 Public	Aggregate	Aggregate	Natural Ga:	38.25154743	622618.8708	622618.8708	0	61223.89676	1136.323083	76.93481133	0	1213.257895	1.276272679	0.295735208	0	1.572007887	0.231646894	0.015683665	0	0.247330559
Sacramento	2019	T7 Single	Aggregate	Aggregate	Diesel	1777.827652	34030673.32	34030673.32	0	5225106.584	63926.90707	2296.027532	0	66222.93461	0.295359195	0.055764494	0	0.351123689	10.06265351	0.361414787	0	10.4240683
Sacramento	2019	T7 Single	Aggregate	Aggregate	Natural Ga:	31.92194906	692973.4139	692973.4139	0	93819.88516	1025.839508	99.61381686	0	1125.453325	0.804652178	0.397768308	0	1.202420486	0.209124095	0.020306928	0	0.229431023
Sacramento	2019	T7 SWCV	Aggregate	Aggregate	Diesel	462.6389039	9362331.559	9362331.559	0	663979.3549	44183.03521	627.1331761	0	44810.16839	0.006779927	0.008401627	0	0.015181554	6.954795637	0.098716239	0	7.053511877
Sacramento	2019	T7 SWCV	Aggregate	Aggregate	Natural Ga:	404.925903	8147185.826	8147185.826	0	581149.656	15988.36779	972.3043294	0	16960.67212	50.74012274	2.81060553	0	53.55072827	3.259333366	0.198210598	0	3.457543964
Sacramento	2019	T7 Tractor	Aggregate	Aggregate	Diesel	747.8132958	21376587.86	21376587.86	0	3390106.883	37686.15353	2053.572376	0	39739.72591	0.152226373	0.037935567	0	0.19016194	5.932129717	0.323250228	0	6.255379945
Sacramento	2019	T7 Tractor	Aggregate	Aggregate	Natural Ga:	7.735028544	233843.243	233843.243	0	35065.669	337.8597556	44.22343848	0	382.0831941	0.256057636	0.181654504	0	0.437712139	0.068874921	0.009015237	0	0.077890159
Sacramento	2019	T7 Utility	Aggregate	Aggregate	Diesel	24.50202116	392279.7183	392279.7183	0	97851.27169	768.4220592	14.38966338	0	782.8117226	0.000823326	0.00024076	0	0.001064086	0.120956344	0.002265059	0	0.123221402
Sacramento	2019	T7IS	Aggregate	Aggregate	Gasoline	44.03715767	265328.7563	265328.7563	0	288118.2124	867.0011802	0	33.77283091	900.7740111	0.321314375	0	0	0.321314375	0.143157756	0	0.003727018	0.146884774
Sacramento	2019	UBUS	Aggregate	Aggregate	Gasoline	154.5943387	3834898.733	3834898.733	0	202209.3951	7711.065985	0	28.14628547	7739.21227	0.037427933	0	0.037197445	0.074625379	0.121665439	0	0.021262099	0.142927538
Sacramento	2019	UBUS	Aggregate	Aggregate	Diesel	6.407902334	100953.9508	100953.9508	0	8381.536252	118.5043161	0	0	118.5043161	0.000238852	0	0	0.000238852	0.018653614	0	0	0.018653614
Sacramento	2019	UBUS	Aggregate	Aggregate	Electricity	0.005112072	124.6146433	0	124.6146433	6.686590641	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2019	UBUS	Aggregate	Aggregate	Natural Ga:	296.3004228	9303199.294	9303199.294	0	387560.953	15164.07001	0	0	15164.07001	12.89408558	0	0	12.89408558	3.09129487	0	0	3.09129487
Sacramento	2030	All Other Buses	Aggregate	Aggregate	Diesel	495.8487708	7431613.946	7431613.946	0	1288611.786	8844.89244	95.24421049	0	8940.13665	0.055467644	0.000688593	0	0.056156237	1.393516406	0.015005764	0	1.40852217
Sacramento	2030	All Other Buses	Aggregate	Aggregate	Natural Ga:	67.97900305	1059990.971	1059990.971	0	176663.8331	1140.465862	25.57199987	0	1166.037862	0.93030267	0.093256723	0	1.023559393	0.232491427	0.005213019	0	0.237704446
Sacramento	2030	LDA	Aggregate	Aggregate	Gasoline	490892.9153	6242851860	6242851860	0	782101020.1	1815706.113	0	55260.07829	1870966.191	11.49740011	0	47.89667483	59.39407493	26.40574909	0	25.46602635	51.87177545
Sacramento	2030	LDA	Aggregate	Aggregate	Diesel	885.4953231	8600011.303	8600011.303	0	1301900.81	2107.282569	0	0	2107.282569	0.007328994	0	0	0.007328994	0.332003227	0	0	0.332003227
Sacramento	2030	LDA	Aggregate	Aggregate	Electricity	41972.98865	658507127.7	0	658507127.7	70838793.73	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2030	LDA	Aggregate	Aggregate	Plug-in Hyb	18644.23429	269249512.4	120443698	148805814.3	26751586.35	39259.02632	0	1830.099478	41089.12579	0.129412383	0	1.210033802	1.339446184	0.158770382	0	0.582625269	0.741395651
Sacramento	2030	LDT1	Aggregate	Aggregate	Gasoline	42726.31111	4688814.40	4688814.40	0	64433217.97	163350.0662	0	5672.892244	169022.9585	1.883940452	0	5.846120953	7.730061405	3.188671946	0	2.48554685	5.674218796
Sacramento	2030	LDT1	Aggregate	Aggregate	Diesel	1.672102587	7686.493631	7686.493631	0	1780.876844	3.446312839	0	0	3.446312839	6.54974E-05	0	0	6.54974E-05	0.000542968	0	0	0.000542968
Sacramento	2030	LDT1	Aggregate	Aggregate	Electricity	321.3617105	5058279.095	0	5058279.095	540391.9876	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2030	LDT1	Aggregate	Aggregate	Plug-in Hyb	225.6595081	3648315.338	1510098.056	2138217.281	323786.4169	492.2215134	0	24.16356719	516.3850806	0.001629279	0	0.014711341	0.01634062	0.002006662	0	0.007113269	0.009119931
Sacramento	2030	LDT2	Aggregate	Aggregate	Gasoline	256325.9029	3293337126	3293337126	0	410227419.8	1181546.508	0	36138.0457	1217684.554	7.204644091	0	28.76864414	35.97328823	15.99849479	0	14.98183529	30.98033008
Sacramento	2030	LDT2	Aggregate	Aggregate	Diesel	873.5070373	11732191.74	11732191.74	0	1423508.016	3768.428559	0	0	3768.428559	0.008904684	0	0	0.008904684	0.593717454	0	0	0.593717454
Sacramento	2030	LDT2	Aggregate	Aggregate	Electricity	4087.778709	47462015.75	0	47462015.75	7049508.592	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2030	LDT2	Aggregate	Aggregate	Plug-in Hyb	3715.268256	56298752.18	24146078.62	32152673.56	5330834.081	7870.495106	0	436.7905243	8307.285631	0.025957682	0	0.241354777	0.267312459	0.031861995	0	0.116314945	0.148176941
Sacramento	2030	LHD1	Aggregate	Aggregate	Gasoline	18453.91978	213858258.9	213858258.9	0	89904042.06	195862.3356	773.7365738	2547.645003	199183.7171	1.32193199	0.709299741	2.894710255	4.925941986	1.676871383	0.019101918	4.747786391	6.443759692
Sacramento	2030	LHD1	Aggregate	Aggregate	Diesel	12435.71809	142236108.5	142236108.5	0	51151200.44	97741.91143	579.3124405	0	98321.22387	1.195333374	0.022852491	0	1.218185865	15.39927795	0.091270911	0	15.49054886
Sacramento	2030	LHD1	Aggregate	Aggregate	Electricity	1334.422967	26365542.86	0	26365542.86	6112120.37	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2030	LHD2	Aggregate	Aggregate	Gasoline	2540.605734	28835460.95	28835460.95	0	12377355.46	29698.03801	123.3111254	338.9759224	30160.32505	0.099042173	0.097306496	0.378126763	0.574475432	0.183815336	0.002608244	0.643536106	0.829959687
Sacramento	2030	LHD2	Aggregate	Aggregate	Diesel	5198.992596	61080154.76	61080154.76	0	21384749.19	49761.62731	383.888017	0	50145.51533	0.459659264	0.009553926	0	0.46921319	7.839964648	0.060481713	0	7.900446361
Sacramento	2030	LHD2	Aggregate	Aggregate	Electricity	337.3323126	6374363.172	0	6374363.172	1462839.583	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2030	MCY	Aggregate	Aggregate	Gasoline	26745.13847	48905829.66	48905829.66	0	18561126.1	10363.65512	0	997.5449202	11361.20004	9.282353519	0	3.67135273	12.95370625	2.149883811	0	0.160906207	2.310790018
Sacramento	2030	MDV	Aggregate	Aggregate	Gasoline	154064.8703	1865011956	1865011956	0	242549209	815776.2552	0	26416.47018	842192.7254	5.289335507	0	20.59734036	25.88667587	10.86547297	0	9.588383893	20.45385686
Sacramento	2030	MDV	Aggregate	Aggregate	Diesel	2381.239396	28242112.49	28242112.49	0	3750747.682	12251.11804	0	0	12251.11804	0.016575487	0	0	0.016575487	1.930168636	0	0	1.930168636
Sacramento	2030	MDV	Aggregate	Aggregate	Electricity	4036.646782	46617654.63	0	46617654.63	6949573.42	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2030	MDV	Aggregate	Aggregate	Plug-in Hyb	2267.362551	33750509.98	14516731.84	19233778.14	3253313.82	4731.777308	0	326.1747768	5057.952085	0.015578563	0	0.147012708	0.162591271	0.019090521	0	0.07072129	0.089811811
Sacramento	2030	MH	Aggregate	Aggregate	Gasoline	2098.441783	6310566.539	6310566.539	0	68646.49391	13550.653	0	2.320878472	13552.97388	0.050954917	0	0.002679285	0.053634202	0.127098904	0	0.004044614	0.131143518
Sacramento	2030	MH	Aggregate	Aggregate	Diesel	1041.24871	3028354.675	3028354.675	0	34048.83283	3615.558696	0	0	3615.558696	0.019556647	0	0	0.019556647	0.569632745	0	0	0.569632745
Sacramento	2030	Motor Coach	Aggregate	Aggregate	Diesel	111.8186497	3865504.126	3865504.126	0	750321.0304	7049.321613	348.4146953	0	7397.736308	0.002616701	0.006677825	0	0.009294526	1.110623491	0.054892877	0	1.165516368
Sacramento	2030	OBUS	Aggregate	Aggregate	Gasoline	412.1900399	4957311.828	4957311.828	0	2696801.15	9379.50147	55.75619999	92.54846436	9527.806135	0.05968883	0.028356741	0.10451137	0.192556941	0.109381762	0.000688392	0.091230107	0.201300261
Sacramento	2030	OBUS	Aggregate	Aggregate	Electricity	15.12650979	416088.9798	0	416088.9798	98966.94495	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2030	PTO	Aggregate	Aggregate	Diesel	0	7365227.136	7365227.136	0	0	15565.50068	0	0	15565.50068	0.006616935	0	0	0.006616935	2.452350972	0	0	2.452350972
Sacramento	2030	PTO	Aggregate	Aggregate	Electricity	0	799282.2378	0	799282.2378	0	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2030	SBUS	Aggregate	Aggregate	Gasoline	135.5725187	2337735.931	2337735.931	0	177328.8545	2018.275051	122.8209259	10.45020587	2151.546183	0.006912728	0.123020826	0.012774314	0.142707868	0.037905331	0.003968459	0.014318748	0.056192538
Sacramento	2030	SBUS	Aggregate	Aggregate	Diesel	941.7043499	6630155.361	6630155.361	0	4458932.428	8190.864363	746.4602996	0	8937.324663	0.019259523	0.002628627	0	0.02188815	1.290474016	0.117605124	0	1.40807914
Sacramento	2030	SBUS	Aggregate	Aggregate	Electricity	57.41358216	560572.5308	0	560572.5308	246601.4745	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2030	SBUS	Aggregate	Aggregate	Natural Ga:	24.54177622	199280.6532	199280.6532	0	116204.3287	241.1111905	40.27730663	0	281.3884972	0.479481076	0.100919864	0	0.58040094	0.049152093	0.008210792	0	0.057362886
Sacramento	2030	T6 CAIRP heavy	Aggregate	Aggregate	Diesel	89.25178527	5546459.344	5546459.344	0	639913.88	5903.923053	16.59869028	0	5920.521743	0.001700081	7.03672E-05	0	0.001770448	0.930165481	0.00261513	0	0.932780612
Sacramento	2030	T6 CAIRP heavy	Aggregate	Aggregate	Electricity	7.121193164	485699.8292	0	485699.8292	51057.2459	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2030	T6 CAIRP small	Aggregate	Aggregate	Diesel	80.14767392	1368229.193	1368229.193	0	574639.5865	1619.030084	15.16478627	0	1634.19487	0.000424309	6.38281E-05	0	0.000488137	0.255078849	0.002389218	0	0.257468067
Sacramento	2030	T6 CAIRP small	Aggregate	Aggregate	Electricity	11.43932903	229768.3668	0	229768.3668	82017.24373	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2030	T6 instate heavy	Aggregate	Aggregate	Diesel	2101.174352	30270671.34	30270671.34	0	7764354.343	35786.74428

Sacramento	2045	LHD1	Aggregate	Aggregate	Gasoline	11112.3676	121791867.4	121791867.4	0	54137374.4	101982.7279	437.6868955	1432.367088	103852.7819	0.178732959	0.351427782	1.290461968	1.820622709	0.285655974	0.009981613	2.435053393	2.730690981
Sacramento	2045	LHD1	Aggregate	Aggregate	Diesel	7390.372525	80466760.94	80466760.94	0	30398439.69	53412.29167	313.5598306	0	53725.8515	0.389742954	0.013580914	0	0.403323868	8.415128304	0.049401479	0	8.464529783
Sacramento	2045	LHD1	Aggregate	Aggregate	Electricity	10404.56153	151997340.3	0	151997340.3	47624775.89	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	LHD2	Aggregate	Aggregate	Gasoline	1392.810684	14870716.71	14870716.71	0	6785512.875	13970.64152	63.14686213	176.1110333	14209.89942	0.019059196	0.039969412	0.142363871	0.201392479	0.037634007	0.00114163	0.274647698	0.313423335
Sacramento	2045	LHD2	Aggregate	Aggregate	Diesel	3701.239324	38396730.65	38396730.65	0	15224117.59	29842.36213	256.683834	0	30099.04597	0.231682643	0.00680158	0	0.238484224	4.701676307	0.040440643	0	4.742116949
Sacramento	2045	LHD2	Aggregate	Aggregate	Electricity	2639.138043	37195695.98	0	37195695.98	11421324.51	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	MCY	Aggregate	Aggregate	Gasoline	27876.32411	48867203.44	48867203.44	0	19346168.93	10190.6004	0	842.1417724	11032.74217	7.70270131	0	2.983449421	10.68615073	1.950072682	0	0.108000138	2.05807282
Sacramento	2045	MDV	Aggregate	Aggregate	Gasoline	167214.7714	1980400645	1980400645	0	262282006	785303.0775	0	25037.11256	810340.1901	3.33179131	0	13.23464678	16.56643809	8.041453992	0	9.274769196	17.31622319
Sacramento	2045	MDV	Aggregate	Aggregate	Diesel	1908.737889	21908970.47	21908970.47	0	2966610.974	8491.440465	0	0	8491.440465	0.006370806	0	0	0.006370806	1.337829903	0	0	1.337829903
Sacramento	2045	MDV	Aggregate	Aggregate	Electricity	9909.867326	94040163.42	0	94040163.42	16087447.63	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	MDV	Aggregate	Aggregate	Plug-in Hyb	4715.307036	59015948.09	24089709.3	34926238.79	6765734.724	7869.449827	0	652.334406	8521.784233	0.02533691	0	0.296311683	0.321648594	0.030268638	0	0.138297619	0.168566257
Sacramento	2045	MH	Aggregate	Aggregate	Gasoline	1369.578995	4746179.627	4746179.627	0	44803.14721	10188.70245	0	1.481954554	10190.18441	0.021216828	0	0.001609219	0.022826047	0.094316431	0	0.002242972	0.096559403
Sacramento	2045	MH	Aggregate	Aggregate	Diesel	873.9505978	2670581.153	2670581.153	0	28578.18455	3206.371922	0	0	3206.371922	0.01203082	0	0	0.01203082	0.505165202	0	0	0.505165202
Sacramento	2045	Motor Coach	Aggregate	Aggregate	Diesel	113.125157	4195116.079	4195116.079	0	759087.9036	7081.548302	304.4867782	0	7386.035081	0.002261586	0.006756388	0	0.009017974	1.115700819	0.047972016	0	1.163672835
Sacramento	2045	OBUS	Aggregate	Aggregate	Gasoline	214.1950988	1961928.737	1961928.737	0	1401396.28	3395.819853	27.70294997	44.66451535	3468.187318	0.012963686	0.014260814	0.048149907	0.075374407	0.035969627	0.000296468	0.040432281	0.076698376
Sacramento	2045	OBUS	Aggregate	Aggregate	Electricity	90.80876958	1994903.035	0	1994903.035	594126.9088	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	PTO	Aggregate	Aggregate	Diesel	0	6288485.835	6288485.835	0	0	12085.81407	0	0	12085.81407	0.004594042	0	0	0.004594042	1.904124928	0	0	1.904124928
Sacramento	2045	PTO	Aggregate	Aggregate	Electricity	0	6066374.077	0	6066374.077	0	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	SBUS	Aggregate	Aggregate	Gasoline	117.9825565	1989221.824	1989221.824	0	154321.184	1628.690302	101.7655503	8.774531158	1739.230383	0.004153277	0.1067871	0.011804765	0.122745143	0.027870473	0.003011174	0.012393933	0.04327558
Sacramento	2045	SBUS	Aggregate	Aggregate	Diesel	587.840374	3963075.967	3963075.967	0	2783400.657	4556.932954	397.1661445	0	4954.099099	0.001416645	0.001643855	0	0.003060501	0.717946643	0.062573688	0	0.780520331
Sacramento	2045	SBUS	Aggregate	Aggregate	Electricity	436.0055779	4040656.93	0	4040656.93	1875693.154	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	SBUS	Aggregate	Aggregate	Natural Ga:	28.64548293	187985.8911	187985.8911	0	135635.2158	221.7586104	46.06474366	0	267.823354	0.452305208	0.117794988	0	0.570100196	0.045206943	0.009390599	0	0.054597543
Sacramento	2045	T6 CAIRP heavy	Aggregate	Aggregate	Diesel	121.9835999	8053760.864	8053760.864	0	874593.1349	7956.756345	21.05837973	0	7977.814725	0.002336414	9.61288E-05	0	0.002432542	1.253590202	0.003317756	0	1.256907959
Sacramento	2045	T6 CAIRP heavy	Aggregate	Aggregate	Electricity	38.00946058	2605842.97	0	2605842.97	272518.7101	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T6 CAIRP small	Aggregate	Aggregate	Diesel	64.63228181	1155981.328	1155981.328	0	463397.9488	1292.712936	11.40312091	0	1304.116057	0.000312038	5.09335E-05	0	0.000362972	0.203667449	0.001796566	0	0.205464016
Sacramento	2045	T6 CAIRP small	Aggregate	Aggregate	Electricity	87.81089643	1667886.616	0	1667886.616	629583.0528	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T6 instate heavy	Aggregate	Aggregate	Diesel	2434.270515	37941611.33	37941611.33	0	8984237.047	40806.69393	1613.564241	0	42420.25817	0.012812251	0.00692433	0	0.01973658	6.429111247	0.254217703	0	6.68332895
Sacramento	2045	T6 instate heavy	Aggregate	Aggregate	Electricity	1063.749239	19490331.69	0	19490331.69	3966204.734	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T6 instate heavy	Aggregate	Aggregate	Natural Ga:	26.53319265	403431.0899	403431.0899	0	98120.97364	397.5939529	40.3920859	0	437.9860388	0.305643747	0.124261012	0	0.429904759	0.081052128	0.008234191	0	0.089286319
Sacramento	2045	T6 instate small	Aggregate	Aggregate	Diesel	8093.827693	95353266.33	95353266.33	0	31155471.01	107322.9971	5150.014267	0	112473.0114	0.027030915	0.022668414	0	0.049699329	16.9087819	0.811386845	0	17.72016875
Sacramento	2045	T6 instate small	Aggregate	Aggregate	Electricity	8621.572856	113081200.9	0	113081200.9	33193835.69	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T6 OOS heavy	Aggregate	Aggregate	Diesel	69.07334837	6244331.416	6244331.416	0	495239.3302	5895.755338	11.4081623	0	5907.163501	0.001770584	5.44329E-05	0	0.001825017	0.928878655	0.001797361	0	0.930676015
Sacramento	2045	T6 OOS small	Aggregate	Aggregate	Diesel	77.87908853	1426992.28	1426992.28	0	558374.3738	1496.115541	12.89648047	0	1509.012021	0.00037665	6.13737E-05	0	0.000438023	0.235713613	0.002031846	0	0.237745459
Sacramento	2045	T6 Public	Aggregate	Aggregate	Diesel	2884.741492	34783329.29	34783329.29	0	4617201.842	41376.90786	2743.223067	0	44120.13093	0.019763214	0.011912878	0	0.031676092	6.518948684	0.432195911	0	6.951144596
Sacramento	2045	T6 Public	Aggregate	Aggregate	Electricity	2096.421444	29035724.88	0	29035724.88	3355448.307	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T6 Public	Aggregate	Aggregate	Natural Ga:	352.7236025	4260401.142	4260401.142	0	564555.2893	4607.262525	802.8346068	0	5410.097132	4.138319059	2.17952037	0	6.31783943	0.939220605	0.163663087	0	1.102883692
Sacramento	2045	T6 Utility	Aggregate	Aggregate	Diesel	27.43378641	351167.0099	351167.0099	0	109559.5694	393.8261108	13.27848811	0	407.1045989	9.1433E-05	5.94159E-05	0	0.000150849	0.062047464	0.002092031	0	0.064139495
Sacramento	2045	T6 Utility	Aggregate	Aggregate	Electricity	37.58702881	502583.4796	0	502583.4796	150107.5583	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T6 Utility	Aggregate	Aggregate	Natural Ga:	0.071628685	916.8851433	916.8851433	0	286.0563169	0.925452268	0.085688797	0	1.011141065	0.000787789	0.000228593	0	0.001016382	0.000188659	1.74682E-05	0	0.000206128
Sacramento	2045	T6TS	Aggregate	Aggregate	Gasoline	702.560779	10104620.92	10104620.92	0	4596585.393	17320.24521	119.8859295	192.8644457	17632.99559	0.034908175	0.067620671	0.189651304	0.29218015	0.079837329	0.001415274	0.149802167	0.23105477
Sacramento	2045	T6TS	Aggregate	Aggregate	Electricity	517.1622639	11132182.5	0	11132182.5	3383594.103	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T7 CAIRP	Aggregate	Aggregate	Diesel	1356.060715	89401361.38	89401361.38	0	9722629.871	126089.594	9373.53076	0	135463.1248	0.051988477	0.226026632	0	0.278015109	19.86546689	1.476803589	0	21.34227048
Sacramento	2045	T7 CAIRP	Aggregate	Aggregate	Electricity	387.2802509	26466337.32	0	26466337.32	2776706.452	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T7 CAIRP	Aggregate	Aggregate	Natural Ga:	13.93391544	918149.8175	918149.8175	0	99902.8296	1035.402307	230.0119788	0	1265.414286	0.946550251	0.699705408	0	1.646255659	0.211073534	0.046889447	0	0.25796298
Sacramento	2045	T7 NNOOS	Aggregate	Aggregate	Diesel	1469.231412	134542468.4	134542468.4	0	10534036.61	181520.7062	12074.39247	0	193595.0987	0.076035527	0.303941213	0	0.379976741	28.59866119	1.90232545	0	30.50098664
Sacramento	2045	T7 NOOS	Aggregate	Aggregate	Diesel	632.1628816	48920634.17	48920634.17	0	4532456.142	65969.43593	5192.41229	0	71161.84822	0.028507774	0.130776109	0	0.159283883	10.3935115	0.818066671	0	11.21157817
Sacramento	2045	T7 Other Port	Aggregate	Aggregate	Diesel	10.2344223	771595.3137	771595.3137	0	52239.76641	1166.459477	22.97179862	0	1189.431275	0.00039637	0.000558894	0	0.000955264	0.183776166	0.003619216	0	0.187395382
Sacramento	2045	T7 Other Port	Aggregate	Aggregate	Electricity	2.356467841	195103.2607	0	195103.2607	12028.16593	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T7 POAK	Aggregate	Aggregate	Diesel	38.8532018	1406865.518	1406865.518	0	198319.175	2119.777329	87.22471107	0	2207.002041	0.000737254	0.002121743	0	0.002858997	0.333971782	0.013742289	0	0.34771407
Sacramento	2045	T7 POAK	Aggregate	Aggregate	Electricity	8.988371547	321739.4303	0	321739.4303	45879.52466	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T7 Public	Aggregate	Aggregate	Diesel	3021.519398	37719945.69	37719945.69	0	4836123.087	67395.41586	2713.12603	0	70108.54189	0.060500051	0.056833565	0	0.117333616	10.61817521	0.427454111	0	11.04562933
Sacramento	2045	T7 Public	Aggregate	Aggregate	Electricity	1713.619152	25442442.84	0	25442442.84	2742750.27	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T7 Public	Aggregate	Aggregate	Natural Ga:	79.43105491	998273.7264	998273.7264	0	127134.1693	1607.461906	157.4600845	0	1764.921991	1.883495983	0.480922784	0	2.364418767	0.327691625	0.032099268	0	0.359790893
Sacramento	2045	T7 Single	Aggregate	Aggregate	Diesel	2077.790058	30734371.25	30734371.25	0	6106708.092	50031.48721	2736.304967	0	52767.79218	0.015229842	0.061829338	0	0.07705918	7.882481185	0.431105962	0	8.313587147
Sacramento	2045	T7 Single	Aggregate	Aggregate	Electricity	1610.88894	30551472.42	0	30551472.42	4734467.03	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T7 Single	Aggregate	Aggregate	Natural Ga:	62.63836215	935700.3838	935700.3838	0	184096.6519	1174.819659	190.2698829	0	1365.089542	1.099701731	0.583363589	0	1.683065319	0.239494673	0.03878776	0	0.278282433
Sacramento	2045	T7 SWCV	Aggregate	Aggregate	Diesel	30.71256134	621534.1894	621534.1894	0	44078.66803	2787.768672	41.73607281	0	2829.504744	0.001012343	0.00050195	0	0.001514293	0.43921409	0.006575535	0	0.445789625
Sacramento	2045	T7 SWCV	Aggregate	Aggregate	Electricity	409.7488041	8277271.467	0	8277271.467	588071.4836	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T7 SWCV	Aggregate	Aggregate	Natural Ga:	585.8088394	11847877.9	11847877.9	0	840752.8464	17554.72509	1282.46314	0	18837.18823	9.025766732	0.809532631	0	9.835299363	3.578645549	0.261438501	0	3.84008405
Sacramento	2045	T7 Tractor	Aggregate	Aggregate	Diesel	1839.494477	39030447.17	39030447.17	0	8339090.682	54960.39694	4244.748303	0	59205.14525	0.020356217	0.101562203	0	0.121918419	8.65903292	0.668761824	0	9.327794744
Sacramento	2045	T7 Tractor	Aggregate	Aggregate	Electricity	335.5705823	7913365.547	0	7913365.547	1521262.255	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T7 Tractor	Aggregate	Aggregate	Natural Ga:	16.89022154	358604.3016	358604.3016	0	76569.45471	425.7025409	92.5838093	0	518.2863502	0.403368053	0.284658176	0	0.688026229	0.086782248	0.018873815	0	0.105656063
Sacramento	2045	T7 Utility	Aggregate	Aggregate	Diesel	20.64778457	263995.1718	263995.1718	0	82458.99247	450.4993453	9.552127513	0	460.0514728	0.000151264	0.000209582	0	0.000360846	0.070976355	0.001504942	0	0.072481297
Sacramento	2045	T7 Utility	Aggregate	Aggregate	Electricity	13.44408029	200809.3687	0	200809.3687	53690.27905	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	T7IS	Aggregate	Aggregate	Gasoline	0.852898565	33510.42773	33510.42773	0	5580.187798	66.82351616	0	0.262832357	67.08634851	0.003532555	0	1.06407E-06	0.003533619	0.003743708	0	0.000239357	0.003983065
Sacramento	2045	T7IS	Aggregate	Aggregate	Electricity	0.685504048	35655.40241	0	35655.40241	4484.989754	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	UBUS	Aggregate	Aggregate	Electricity	693.2280388	20170817.52	0	20170817.52	906742.2747	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2045	UBUS	Aggregate	Aggregate	Natural Ga:	7.735695246	122261.1161	122261.1161	0	10118.28938	107.5732684	0	0	107.5732684	0.000615218	0	0	0.000615218	0.021929514	0	0	0.021929514
Sacramento	2050	All Other Buses	Aggregate	Aggregate	Diesel	540.0556913	8143200.037	8143200.037	0	1403496.73	8972.058733	91.40008275	0	9063.458816	0.006196758	0.000404721	0	0.006601479	1.413551507	0.01440012	0	1.427951627
Sacramento	2050	All Other Buses	Aggregate	Aggregate	Natural Ga:	82.84434882	1243143.432	1243143.432	0	215295.8937	1257.006471	30.52197118	0	1287.528442	1.140659692	0.100768758	0	1.24142845	0.256248992	0.006222103	0	0.262471096
Sacramento	2050	LDA	Aggregate	Aggregate	Gasoline	535287.829	6699437081	6699437081	0	855637956.8	1779591.908	0	52762.09004	1832353.998	7.702584468	0	29.50833889	37.21092336	23.8006778	0	23.90081278	47.70149058
Sacramento	2050	LDA	Aggregate	Aggregate	Diesel	355.2497497	3903157.171	3903157.171	0	540251.8554	812.5064132	0	0	812.5064132	0.000981344	0	0	0.000981344	0.128010716	0	0	0.128010716
Sacramento	2050	LDA	Aggregate	Aggregate	Electricity	73451.22048	990507907.2	0	990507907.2	118778157.2	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2050	LDA	Aggregate	Aggregate	Plug-in Hyb	24997.71238	320391204.2	130509633.2	189881571	35867842.62	42635.53953	0	2294.267825	44929.80736	0.13779103	0	1.572882418	1.710673449	0.165238657	0	0.735213927	0.900452584
Sacramento	2050	LDT1	Aggregate	Aggregate	Gasoline	34303.67864	403015450.4	403015450.4	0	53514474.01	122977.6298	0	3823.610264	126801.2401	0.486526131	0	1.937902295	2.424428426	1.469243327	0	1.569368107	3.038611434
Sacramento	2050	LDT1	Aggregate	Aggregate	Diesel	0.392666889	4834.79926	4834.79926	0	625.712516	1.884117336	0	0	1.884117336	3.68885E-06	0	0	3.68885E-06	0.000296843	0	0	0.000296843
Sacramento	2050	LDT1	Aggregate	Aggregate	Electricity	1062.636955	14105851.47	0	14105851.47	1708973.161	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2050	LDT1	Aggregate	Aggregate	Plug-in Hyb	806.3665872	10185535.79	4143614.141	6041921.654	1157011.066	1353.656586	0	84.9467409	1438.603326	0.004362329	0	0.050695315	0.055057644	0.005216428	0	0.02367247	0.028888898
Sacramento	2050	LDT2	Aggregate	Aggregate	Gasoline	301413.0274	3682481393	3682481393	0	477885550.4	1198291.938	0	36871.89944	1235163.837	5.638165441	0	21.2740383	26.91220374	13.9138568	0	16.0411488	29.9550056
Sacramento	2050	LDT2	Aggregate	Aggregate	Diesel	1150.458402	14110859.83	14110859.83	0	1827622.621	4172.814092	0	0	4172.814092	0.010761092	0	0	0.010761092	0.65742856	0	0	0.65742856
Sacramento	2050	LDT2	Aggregate	Aggregate	Electricity	12145.84826	112217252.5	0	112217252.5	19578071.35	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2050	LDT2	Aggregate	Aggregate	Plug-in Hyb	8271.923374	102853001.7	41884661.34	60968340.39	11868927.89	13683.09059	0	937.6609843	14620.75158	0.044019305	0	0.519021796	0.563041101	0.052549182	0	0.241892059	0.294441241
Sacramento	2050	LHD1	Aggregate	Aggregate	Gasoline	9607.541623	109618969.8	109618969.8	0	46806143.97	90035.01401	371.9766908	1222.171733	91629.16243	0.141323254	0.289320745	0.994974615	1.425618613	0.183907643	0.008446847	2.028316481	2.220670971
Sacramento	2050	LHD1	Aggregate	Aggregate	Diesel	6432.038333	72256420	72256420	0	26456572.89	47558.40855	266.7108013	0	47825.11935	0.312529872	0.011819832	0	0.324349703	7.492846634	0.042020395	0	7.53486703
Sacramento	2050	LHD1	Aggregate	Aggregate	Electricity	12672.37441	173397906.5	0	173397906.5	57963025.39	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2050	LHD2	Aggregate	Aggregate	Gasoline	1180.195088	13062719.42	13062719.42	0	5749689.499	12069.0367	52.49274078	147.1325174	12268.66196	0.015288535	0.030959132	0.107131667	0.153379335	0.029046136	0.000914229	0.215801418	0.245761783
Sacramento	2050	LHD2	Aggregate	Aggregate	Diesel	3297.816655	34724318.94	34724318.94	0	13564739.85	26778.01566	224.5740041	0	27002.58966	0.188546805	0.006060231	0	0.194607036	4.218887272	0.035381726	0	4.254268997
Sacramento	2050	LHD2	Aggregate	Aggregate	Electricity	3238.162399	42772824.39	0	42772824.39	14009231.35	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2050	MCY	Aggregate	Aggregate	Gasoline	27310.05852	49088979.33	49088979.33	0	18953180.61	10206.2821	0	742.5296197	10948.81172	7.473281528	0	2.606212102	10.07949363	1.926624122	0	0.08341028	2.010034402
Sacramento	2050	MDV	Aggregate	Aggregate	Gasoline	169892.7048	2012884388	2012884388	0	267593675	792046.4704	0	25130.59783	817177.0682	3.154392862	0	12.14923612	15.30362898	7.720487666	0	9.212843333	16.933331
Sacramento	2050	MDV	Aggregate	Aggregate	Diesel	1917.012882	21987909.51	21987909.51	0	2979432.806	8449.998488	0	0	8449.998488	0.005939346	0	0	0.005939346	1.331300703	0	0	1.331300703
Sacramento	2050	MDV	Aggregate	Aggregate	Electricity	10825.60551	99071006.57	0	99071006.57	17388537.77	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2050	MDV	Aggregate	Aggregate	Plug-in Hyb	5103.80498	61782984.35	25161774.56	36621209.79	7323169.057	8219.974323	0	704.1820429	8924.156366	0.026375459	0	0.318939479	0.345314938	0.031407318	0	0.148052035	0.179459353
Sacramento	2050	MH	Aggregate	Aggregate	Gasoline	1331.142463	4699505.983	4699505.983	0	43545.76989	10088.30026	0	1.402730992	10089.70299	0.014673854	0	0.001565599	0.016239453	0.092286145	0	0.001901337	0.094187482
Sacramento	2050	MH	Aggregate	Aggregate	Diesel	844.2231128	2632739.074	2632739.074	0	27606.09579	3163.975746	0	0	3163.975746	0.011125141	0	0	0.011125141	0.498485667	0	0	0.498485667
Sacramento	2050	Motor Coach	Aggregate	Aggregate	Diesel	117.2169106	4311118.193	4311118.193	0	786544.2251	7238.011089	312.2472177	0	7550.258307	0.002326304	0.007000772	0	0.009327076	1.140351595	0.049194676	0	1.189546271
Sacramento	2050	OBUS	Aggregate	Aggregate	Gasoline	166.3491671	1706606.918	1706606.918	0	1088358.722	2887.008451	20.88953479	31.96056098	2939.858547	0.003222986	0.011513328	0.033187886	0.047924201	0.027564303	0.000273148	0.030245336	0.058082788
Sacramento	2050	OBUS	Aggregate	Aggregate	Electricity	106.0349324	2181277.099	0	2181277.099	693745.8451	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2050	PTO	Aggregate	Aggregate	Diesel	0	6646572.347	6646572.347	0	0	12563.56092	0	0	12563.56092	0.004623333	0	0	0.004623333	1.97939414	0	0	1.97939414
Sacramento	2050	PTO	Aggregate	Aggregate	Electricity	0	7675961.725	0	7675961.725	0	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2050	SBUS	Aggregate	Aggregate	Gasoline	71.15495225	1190750.806	1190750.806	0	93070.67755	914.0473883	57.82482426	4.933869452	976.806082	0.002400722	0.064351724	0.007134428	0.073886874	0.009977526	0.001643129	0.004238788	0.015859443
Sacramento	2050	SBUS	Aggregate	Aggregate	Diesel	467.70822	3195568.469	3195568.469	0	2214579.714	3592.779564	304.597666	0	3897.37723	0.000974546	0.001305241	0	0.002279787	0.566043883	0.047989486	0	0.61403337
Sacramento	2050	SBUS	Aggregate	Aggregate	Electricity	573.1476799	5139459.078	0	5139459.078	2463734.139	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2050	SBUS	Aggregate	Aggregate	Natural Ga:	22.39601265	149213.7281	149213.7281	0	106044.2241	172.9992357	35.28647843	0	208.2857141	0.359017083	0.092096127	0	0.451113211	0.035267026	0.007193379	0	0.042460405
Sacramento	2050	T6 CAIRP heavy	Aggregate	Aggregate	Diesel	146.4477878	9675277.438	9675277.438	0	1049995.491	9536.7457	25.22302697	0	9561.968727	0.002798734	0.000115407	0	0.002914141	1.502518169	0.003973898	0	1.506492067
Sacramento	2050	T6 CAIRP heavy	Aggregate	Aggregate	Electricity	47.17622151	3212078.441	0	3212078.441	338242.1859	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2050	T6 CAIRP small	Aggregate	Aggregate	Diesel	73.58740242	1335891.16	1335891.16	0	527604.0144	1488.528518	12.91807375	0	1501.446592	0.000356238	5.79901E-05	0	0.000414228	0.234518274	0.002035248	0	0.236553522
Sacramento	2050	T6 CAIRP small	Aggregate	Aggregate	Electricity	110.9664147	2078137.327	0	2078137.327	795602.5615	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	2050	T6 instate heavy	Aggregate	Aggregate	Diesel	2717.584884	43541899.16	43541899.16	0	10023913.13	45850.84775	1747.19425	0	47598.042	0.013824098	0.007718874	0	0.021542972	7.223819735	0.275271166	0	7.499090901
Sacramento	2050	T6 instate heavy	Aggregate	Aggregate	Electricity	1505.536878	25934530.41	0	25934530.41	5612619.702	0

CY	Season	AvgDays	Code	Equipment	Fuel	MaxHP	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Population	Activity	Consumption	ROG Exhaust	CO Exhaust	NOX Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust
2019	Annual	Mon-Sun	2260001011	Off-Road M	G2	15	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	1.23E+02	4.57E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2260001011	Off-Road M	G2	25	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	1.06E+02	3.93E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2260001011	Off-Road M	G2	50	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	8.65E+02	3.20E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2260001011	Off-Road M	G2	120	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	4.14E+02	1.53E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2260001021	Snowmobi	G2	25	Recreation	U	N	NHH	P	Monterey	NCC	MBU	1.96E+00	3.10E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2260001021	Snowmobi	G2	50	Recreation	U	N	NHH	P	Monterey	NCC	MBU	9.26E+00	1.46E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2260001021	Snowmobi	G2	120	Recreation	U	N	NHH	P	Monterey	NCC	MBU	1.68E+01	2.65E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2260001031	All Terrain	G2	15	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	1.02E+02	3.78E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2260001031	All Terrain	G2	25	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	6.65E+01	2.46E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2260001031	All Terrain	G2	50	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	8.76E+01	3.24E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2265001011	Off-Road M	G4	15	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	2.41E+02	8.91E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2265001011	Off-Road M	G4	25	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	3.88E+02	1.44E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2265001011	Off-Road M	G4	50	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	4.05E+02	1.50E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2265001031	All Terrain	G4	15	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	8.34E+01	3.09E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2265001031	All Terrain	G4	25	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	1.16E+03	4.30E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2265001031	All Terrain	G4	50	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	5.24E+01	1.94E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	Annual	Mon-Sun	2260001010	Off-Road M	G2	15	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	3.08E+02	1.14E+03	4.32E+01	4.35E-02	6.81E-02	1.33E-05	1.45E-01	1.17E-04	5.28E-04	4.88E-05	2.71E-03
2019	Annual	Mon-Sun	2260001010	Off-Road M	G2	25	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	2.65E+02	9.82E+02	3.72E+01	3.75E-02	5.86E-02	1.14E-05	1.24E-01	1.88E-04	4.55E-04	4.20E-05	2.33E-03
2019	Annual	Mon-Sun	2260001010	Off-Road M	G2	50	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	2.16E+03	7.99E+03	3.03E+02	3.05E-01	4.77E-01	9.30E-05	1.01E+00	2.42E-03	3.70E-03	3.42E-04	1.90E-02
2019	Annual	Mon-Sun	2260001010	Off-Road M	G2	120	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	1.03E+03	3.82E+03	1.45E+02	1.46E-01	2.28E-01	4.45E-05	4.84E-01	1.71E-03	1.77E-03	1.64E-04	9.07E-03
2019	Annual	Mon-Sun	2260001020	Snowmobi	G2	25	Recreation	U	N	NHH	P	Monterey	NCC	MBU	5.65E+00	8.89E-01	6.73E-01	3.91E-04	1.36E-03	3.19E-05	2.86E-03	4.99E-08	1.27E-05	2.76E-06	2.43E-05
2019	Annual	Mon-Sun	2260001020	Snowmobi	G2	50	Recreation	U	N	NHH	P	Monterey	NCC	MBU	2.66E+01	4.19E+00	6.03E+00	3.51E-03	1.22E-02	2.86E-04	2.56E-02	4.47E-07	1.14E-04	1.83E-05	2.18E-04
2019	Annual	Mon-Sun	2260001020	Snowmobi	G2	120	Recreation	U	N	NHH	P	Monterey	NCC	MBU	4.84E+01	7.63E+00	1.86E+01	1.07E-02	3.76E-02	8.94E-04	7.98E-02	1.39E-06	3.53E-04	4.44E-05	6.67E-04
2019	Annual	Mon-Sun	2260001030	All Terrain	G2	15	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	3.37E+02	1.25E+03	4.72E+01	4.76E-02	7.43E-02	1.45E-05	1.58E-01	1.57E-04	5.77E-04	5.33E-05	2.96E-03
2019	Annual	Mon-Sun	2260001030	All Terrain	G2	25	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	2.19E+02	8.11E+02	3.08E+01	3.10E-02	4.84E-02	9.44E-06	1.03E-01	1.40E-04	3.76E-04	3.47E-05	1.92E-03
2019	Annual	Mon-Sun	2260001030	All Terrain	G2	50	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	2.88E+02	1.07E+03	4.05E+01	4.08E-02	6.37E-02	1.24E-05	1.35E-01	2.42E-04	4.94E-04	4.57E-05	2.53E-03
2019	Annual	Mon-Sun	2260001050	Golf Carts	G2	15	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	1.02E+03	3.07E+03	1.16E+03	5.23E-02	3.15E+00	3.93E-02	6.02E+00	2.48E-04	2.81E-03	5.51E-03	3.25E-03
2019	Annual	Mon-Sun	2260001060	Specialty V	G2	15	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	2.32E+03	4.22E+02	1.55E+02	5.59E-03	4.24E-01	4.26E-03	8.10E-01	3.34E-05	3.05E-04	6.66E-04	3.47E-04
2019	Annual	Mon-Sun	2260002006	Tampers/R	G2	15	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	2.35E+01	1.17E+01	2.37E+00	1.49E-04	6.39E-03	1.15E-04	1.22E-02	5.03E-07	1.02E-04	1.82E-05	9.25E-06
2019	Annual	Mon-Sun	2260002009	Plate Comp	G2	15	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	2.02E+00	1.14E+00	2.30E-01	1.44E-05	6.21E-04	1.12E-05	1.19E-03	4.89E-08	9.94E-06	1.77E-06	8.97E-07
2019	Annual	Mon-Sun	2260003040	Other Gen	G2	15	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	4.58E-01	4.71E-01	1.85E-01	8.35E-06	5.04E-04	6.27E-06	9.64E-04	3.97E-08	4.49E-07	8.63E-07	5.19E-07
2019	Annual	Mon-Sun	2260004010	Lawn Mow	G2	15	Lawn and (	C	N	NHH	NP	Monterey	NCC	MBU	4.02E+02	2.52E+02	2.85E+01	3.22E-03	5.79E-02	8.57E-04	1.72E-01	7.07E-06	5.42E-04	2.23E-04	2.00E-04
2019	Annual	Mon-Sun	2260004010	Lawn Mow	G2	15	Lawn and (	R	N	NHH	NP	Monterey	NCC	MBU	3.02E+03	1.28E+02	1.63E+01	2.09E-03	3.94E-02	4.32E-04	8.74E-02	3.60E-06	2.48E-04	1.08E-04	1.30E-04
2019	Annual	Mon-Sun	2260004020	Chainsaws	G2	2	Lawn and (	C	N	HH	NP	Monterey	NCC	MBU	7.20E+02	5.71E+02	3.40E+01	2.85E-02	5.15E-02	4.47E-04	1.39E-01	5.73E-06	8.10E-05	2.31E-04	1.77E-03
2019	Annual	Mon-Sun	2260004020	Chainsaws	G2	2	Lawn and (	R	N	HH	NP	Monterey	NCC	MBU	8.10E+03	1.09E+02	5.28E+00	2.05E-03	1.06E-02	8.78E-05	2.65E-02	1.09E-06	2.74E-05	4.45E-05	1.27E-04
2019	Annual	Mon-Sun	2260004020	Chainsaws	G2	15	Lawn and (	C	N	HH	NP	Monterey	NCC	MBU	5.07E+02	4.02E+02	5.80E+01	4.85E-02	8.77E-02	7.61E-04	2.37E-01	9.76E-06	1.38E-04	2.60E-04	3.01E-03
2019	Annual	Mon-Sun	2260004020	Chainsaws	G2	15	Lawn and (	R	N	HH	NP	Monterey	NCC	MBU	5.71E+03	7.66E+01	8.88E+00	3.35E-03	1.77E-02	1.49E-04	4.51E-02	1.86E-06	4.97E-05	5.01E-05	2.08E-04
2019	Annual	Mon-Sun	2260004021	Chainsaws	G2	15	Lawn and (	C	P	HH	NP	Monterey	NCC	MBU	6.32E+02	5.00E+02	7.21E+01	6.03E-02	1.09E-01	9.48E-04	2.95E-01	1.21E-05	1.72E-04	3.24E-04	3.75E-03
2019	Annual	Mon-Sun	2260004021	Chainsaws	G2	15	Lawn and (	R	P	HH	NP	Monterey	NCC	MBU	7.10E+03	9.53E+01	1.16E+01	4.81E-03	2.41E-02	1.72E-04	5.62E-02	2.31E-06	4.58E-05	6.00E-05	2.99E-04
2019	Annual	Mon-Sun	2260004025	Trimmers/	G2	2	Lawn and (	C	N	HH	NP	Monterey	NCC	MBU	2.35E+03	7.81E+02	3.46E+01	1.87E-02	6.15E-02	5.34E-04	1.66E-01	6.85E-06	9.68E-05	2.94E-04	1.16E-03
2019	Annual	Mon-Sun	2260004025	Trimmers/	G2	2	Lawn and (	R	N	HH	NP	Monterey	NCC	MBU	2.62E+04	1.54E+03	6.55E+01	2.95E-02	1.21E-01	1.06E-03	3.28E-01	1.35E-05	1.91E-04	5.80E-04	1.84E-03
2019	Annual	Mon-Sun	2260004030	Leaf Blowe	G2	2	Lawn and (	C	N	HH	P	Monterey	NCC	MBU	3.51E+03	1.89E+03	1.01E+02	6.95E-02	1.65E-01	1.43E-03	4.47E-01	1.84E-05	2.60E-04	7.51E-04	4.32E-03
2019	Annual	Mon-Sun	2260004030	Leaf Blowe	G2	2	Lawn and (	R	N	HH	P	Monterey	NCC	MBU	9.04E+03	1.19E+02	5.60E+00	2.16E-03	1.12E-02	9.32E-05	2.81E-02	1.16E-06	2.91E-05	4.79E-05	1.34E-04
2019	Annual	Mon-Sun	2260004050	Shredders	G2	15	Lawn and (	C	P	NHH	NP	Monterey	NCC	MBU	1.77E+01	6.59E+00	2.89E+00	1.63E-04	7.83E-03	1.26E-04	1.50E-02	6.17E-07	1.25E-04	1.46E-05	1.01E-05
2019	Annual	Mon-Sun	2260004050	Shredders	G2	15	Lawn and (	R	P	NHH	NP	Monterey	NCC	MBU	6.31E+02	1.56E+00	7.10E-01	7.79E-05	1.92E-03	2.46E-05	3.54E-03	1.46E-07	2.96E-05	3.10E-06	4.84E-06
2019	Annual	Mon-Sun	2260004070	Commercia	G2	15	Lawn and (	C	N	NHH	NP	Monterey	NCC	MBU	9.40E+00	2.06E+01	8.43E+00	3.80E-04	2.30E-02	2.86E-04	4.39E-02	1.81E-06	2.04E-05	3.85E-05	2.36E-05
2019	Annual	Mon-Sun	2260004070	Commercia	G2	25	Lawn and (	C	N	NHH	NP	Monterey	NCC	MBU	4.64E+00	1.02E+01	9.02E+00	3.93E-04	2.54E-02	3.01E-04	4.57E-02	1.88E-06	2.13E-05	2.85E-05	2.44E-05
2019	Annual	Mon-Sun	2260004075	Other Lawi	G2	2	Lawn and (	C	N	HH	NP	Monterey	NCC	MBU	3.97E+00	7.46E-01	4.17E-02	2.05E-05	7.58E-05	6.58E-07	2.05E-04	8.44E-09	1.19E-07	3.21E-07	1.27E-06
2019	Annual	Mon-Sun	2260004075	Other Lawi	G2	2	Lawn and (	R	N	HH	NP	Monterey	NCC	MBU	1.22E+02	1.43E+00	7.79E-02	2.93E-05	1.57E-04	1.30E-06	3.94E-04	1.62E-08	4.07E-07	6.26E-07	1.82E-06
2019	Annual	Mon-Sun	2260004075	Other Lawi	G2	15	Lawn and (	C	N	HH	NP	Monterey	NCC	MBU	1.73E+00	3.25E-01	9.07E-02	4.46E-05	1.65E-04	1.43E-06	4.46E-04	1.84E-08	2.59E-07	3.30E-07	2.77E-06
2019	Annual	Mon-Sun	2260004075	Other Lawi	G2	15	Lawn and (	R	N	HH	NP	Monterey	NCC	MBU	5.30E+01	6.24E-01	1.67E-01	6.11E-05	3.35E-04	2.82E-06	8.57E-04	3.53E-08	9.44E-07	6.40E-07	3.80E-06
2019	Annual	Mon-Sun	2260006005	Generator	G2	2	Light Comr	C	N	NHH	P	Monterey	NCC	MBU	3.02E+01	1.11E+01	5.90E-01	8.75E-05	1.14E-03	2.24E-05	3.58E-03	1.47E-07	1.25E-05	7.37E-06	5.44E-06
2019	Annual	Mon-Sun	2260006005	Generator	G2	2	Light Comr	R	N	NHH	P	Monterey	NCC	MBU	2.37E+01	5.87E+00	3.24E-01	5.56E-05	6.52E-04	1.23E-05	1.89E-03	7.78E-08	6.69E-06	3.95E-06	3.45E-06
2019	Annual	Mon-Sun	2260006005	Generator	G2	15	Light Comr	C	N	NHH	P	Monterey	NCC	MBU	3.05E-01	1.12E-01	6.24E-02	2.84E-06	1.70E-04	2.13E-06	3.25E-04	1.34E-08	1.48E-07	2.48E-07	1.77E-07
2019	Annual	Mon-Sun	2260006005	Generator	G2	15	Light Comr	R	N	NHH	P	Monterey	NCC	MBU	2.32E-01	5.74E-02	3.26E-02	2.10E-06	8.92E-05	1.15E-06	1.66E-04	6.85E-09	9.29E-08	1.30E-07	1.31E-07
2019	Annual	Mon-Sun	2260006010	Pumps	G2	2	Light Comr	C	N	NHH	P	Monterey	NCC	MBU	1.20E+02	8.48E+01	4.39E+00	5.92E-04	7.88E-03	1.62E-04	2.77E-02	1.14E-06	9.72E-05	5.51E-05	3.68E-05
2019	Annual	Mon-Sun	2260006010	Pumps	G2	2	Light Comr	R	N	NHH	P	Monterey	NCC	MBU	9.43E+01	4.48E+01	2.38E+00	3.35E-04	4.47E-03	8.98E-05	1.46E-02	6.03E-07	5.10E-05	2.97E-05	2.08E-05
2019	Annual	Mon-Sun	2260006010	Pumps	G2	15	Light Comr	C	P	NHH	P	Monterey	NCC	MBU	3.24E+01	2.29E+01	1.16E+01	7.43E-04	3.13E-02	5.74E-04	5.98E-02	2.46E-06	5.01E-04	5.87E-05	4.62E-05
2019	Annual	Mon-Sun	2260006010	Pumps	G2	15	Light Comr	R	P	NHH	P	Monterey	NCC	MBU	2.54E+01	1.21E+01	6.12E+00	3.93E-04	1.66E-02	3.01E-04	3.16E-02	1.30E-06	2.65E-04	3.09E-05	2.44E-05
2019	Annual	Mon-Sun	2260006010	Pumps	G2	25	Light Comr	C	P	NHH	P	Monterey	NCC	MBU	3.92E-01	2.77E-01	3.06E-01	2.01E-05	8.53E-04	1.36E-05	1.54E-03	6.33E-08	1.29E-05	1.02E-06	1.25E-06
2019	Annual	Mon-Sun	2260006010	Pumps	G2	25	Light Comr	R	P	NHH	P	Monterey	NCC	MBU	3.05E-01	1.45E-01	1.60E-01	1.05E-05	4.46E-04	7.08E-06	8.04E-04	3.31E-08	6.74E-06	5.30E-07	6.50E-07
2019	Annual	Mon-Sun	2265001010	Off-Road M	G4	15	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	6.01E+02	2.23E+03	4.28E+01	3.24E-03	7.57E-02	1.39E-03	2.82E-01	2.28E-04	1.47E-04	7.59E-04	1.68E-04
2019	Annual	Mon-Sun	2265001010	Off-Road M	G4	25	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	9.70E+02	3.59E+03	6.91E+01	5.22E-03	1.22E-01	2.25E-03	4.55E-01	6.87E-04	2.37E-04	1.22E-03	2.71E-04
2019	Annual	Mon-Sun	2265001010	Off-Road M	G4	50	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	1.01E+03	3.74E+03	7.19E+01	5.44E-03	1.27E-01	2.34E-03	4.74E-01	1.13E-03	2.47E-04	1.27E-03	2.82E-04
2019	Annual	Mon-Sun	2265001030	All Terrain	G4	15	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	2.75E+02	1.02E+03	1.97E+01	1.55E-03	3.55E-02	8.32E-04	1.29E-01	1.28E-04	6.73E-05	4.00E-04	8.06E-05
2019	Annual	Mon-Sun	2265001030	All Terrain	G4	25	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	3.82E+03	1.42E+04	2.75E+02	2.16E-02	4.93E-01	1.16E-02	1.79E+00	2.44E-03	9.36E-04	5.56E-03	1.12E-03
2019	Annual	Mon-Sun	2265001030	All Terrain	G4	50	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	1.73E+02	6.39E+02	1.24E+01	9.76E-04	2.23E-02	5.23E-04	8.09E-02	1.45E-04	4.22E-05	2.51E-04	5.06E-05
2019	Annual	Mon-Sun	2265001040	Minibikes	G4	5	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	1.49E+02	5.62E+01	1.39E+01	9.00E-03	5.91E-02	2.14E-04	7.12E-03	2.28E-06	2.22E-04	5.04E-05	4.71E-04
2019	Annual	Mon-Sun	2265001050	Golf Carts	G4	15	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	7.96E+02	2.41E+03	1.02E+03	5.92E-02	3.10E+00	4.05E-02	4.71E+00	1.34E-04	2.63E-03	4.75E-03	3.08E-03
2019	Annual	Mon-Sun	2265001060	Specialty V	G4	5	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	7.17E+01	1.30E+01	3.62E+00	2.81E-04	1.01E-02	6.68E-05	1.79E-02	6.18E-07	4.25E-05	1.36E-05	1.47E-05
2019	Annual	Mon-Sun	2265001060	Specialty V	G4	15	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	9.72E+02	1.77E+02	7.25E+01	2.78E-03	2.22E-01	1.95E-03	3.40E-01	9.69E-06	1.28E-04	2.79E-04	1.46E-04
2019	Annual	Mon-Sun	2265001060	Specialty V	G4	25	Recreation	U	N	NHH	NP	Monterey	NCC	MBU	5.34E+02	9.72E+01	1.11E+02	4.26E-03	3.52E-01	2.80E-03	5.07E-01	1.29E-05	1.91E-04	2.56E-04	2.23E-04
2019	Annual	Mon-Sun	2265002003	Asphalt Pa	G4	15	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	5.13E-01	5.57E-01	3.39E-01	2.63E-05	1.02E-03	1.87E-05	1.57E-03	4.46E-08	1.31E-05	1.59E-06	1.38E-06
2019	Annual	Mon-Sun	2265002003	Asphalt Pa	G4	25	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	8.77E-01	9.52E-01	1.46E+00	1.16E-04	4.54E-03	7.24E-05	6.54E-03	1.66E-07	5.49E-05	4.21E-06	6.09E-06
2019	Annual	Mon-Sun	2265002003	Asphalt Pa	G4	50	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	4.50E-01	4.84E-01	1.14E+00	2.33E-05	1.33E-03	3.05E-05	8.82E-03	1.07E-07	6.76E-07	1.81E-06	1.22E-06
2019	Annual	Mon-Sun	2265002003	Asphalt Pa	G4	120	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	2.47E-01	2.66E-01	1.02E+00	1.27E-05	4.19E-04	3.13E-05	9.13E-03	8.82E-08	7.08E-07	1.27E-06	6.65E-07
2019	Annual	Mon-Sun	2265002006	Tampers/R	G4	15	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	1.08E+00	5.41E-01	2.75E-01	2.11E-05	8.29E-04	1.50E-05	1.27E-03	3.62E-08	1.06E-05	1.39E-06	1.10E-06
2019	Annual	Mon-Sun	2265002009	Plate Comp	G4	5	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	3.98E+01	1.97E+01	3.72E+00	5.44E-04	8.48E-03	2.35E-04	2.05E-02	7.07E-07	6.67E-06	3.23E-05	2.85E-05
2019	Annual	Mon-Sun	2265002009	Plate Comp	G4	15	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	4.22E+01	2.39E+01	1.08E+01	8.26E-04	3.25E-02	5.88E-04	4.97E-02	1.42E-06	4.17E-04	5.78E-05	4.33E-05
2019	Annual	Mon-Sun	2265002015	Rollers	G4	5	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	4.44E+00	1.01E+00	2.85E-01	3.54E-05	7.24E-04	1.53E-05	1.48E-03	5.12E-08	4.83E-07	1.88E-06	1.85E-06
2019	Annual	Mon-Sun	2265002015	Rollers	G4	15	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	7.18E+00	6.10E+00	3.49E+00	2.68E-04	1.05E-02	1.91E-04	1.61E-02	4.60E-07	1.35E-04	1.68E-05	1.41E-05
2019	Annual	Mon-Sun	2265002015	Rollers	G4	25	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	4.84E+00	4.12E+00	5.13E+00	4.04E-04	1.59E-02	2.52E-04	2.30E-02	5.82E-07	1.93E-04	1.62E-05	2.11E-05
2019	Annual	Mon-Sun	2265002015	Rollers	G4	50	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	3.17E-01	5.40E-01	1.50E+00	4.07E-05	2.29E-03	5.15E-05	1.07E-02	1.30E-07	8.19E-07	2.51E-06	2.13E-06
2019	Annual	Mon-Sun	2265002015	Rollers	G4	120	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	5.96E-01	1.01E+00	4.65E+00	8.57E-05	2.74E-03	1.92E-04	4.03E-02	3.89E-07	3.12E-06	6.40E-06	4.48E-06
2019	Annual	Mon-Sun	2265002021	Paving Equ	G4	5	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	5.57E+01	2.60E+01	5.29E+00	7.65E-04	1.22E-02	3.30E-04	2.90E-02	1.00E-06	9.46E-06	4.42E-05	4.01E-05
2019	Annual	Mon-Sun	2265002021	Paving Equ	G4	15	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	9.43E+01	5.17E+01	3.13E+01	2.40E-03	9.43E-02	1.70E-03	1.44E-01	4.12E-06	1.21E-03	1.46E-04	1.25E-04
2019	Annual	Mon-Sun	2265002021	Paving Equ	G4	25	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	2.10E+00	1.15E+00	1.58E+00	1.24E-04	4.90E-03	7.71E-05	7.06E-03	1.79E-07	5.92E-05	4.75E-06	6.48E-06
2019	Annual	Mon-Sun	2265002021	Paving Equ	G4	50	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	1.23E+00	5.90E-01	1.34E+00	1.76E-05	1.09E-03	2.56E-05	1.11E-02	1.35E-07	8.52E-07	1.87E-06	9.21E-07
2019	Annual	Mon-Sun	2265002021	Paving Equ	G4	120	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	3.17E-01	1.52E-01	5.47E-01	3.52E-06	1.35E-04	9.08E-06	5.06E-03	4.89E-08	3.92E-07	5.30E-07	1.84E-07
2019	Annual	Mon-Sun	2265002024	Surfacing E	G4	5	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	1.02E+01	5.61E+00	1.17E+00	1.75E-04	2.63E-03	7.57E-05	6.51E-03	2.25E-07	2.12E-06	9.86E-06	9.18E-06
2019	Annual	Mon-Sun	2265002024	Surfacing E	G4	15	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	3.04E+01	4.19E+01	1.69E+01	1.36E-03	5.09E-02	9.69E-04	7.78E-02	2.22E-06	6.52E-04	9.81E-05	7.12E-05
2019	Annual	Mon-Sun	2265002024	Surfacing E	G4	25	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	4.16E-01	5.74E-01	5.67E-01	4.67E-05	1.76E-03	2.91E-05	2.53E-03	6.41E-08	2.12E-05	2.04E-06	2.44E-06
2019	Annual	Mon-Sun	2265002027	Signal Boar	G4	5	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	1.26E-01	4.50E-02	1.52E-02	2.02E-06	3.72E-05	8.72E-07	8.10E-05	2.80E-09	2.64E-08	9.58E-08	1.06E-07
2019	Annual	Mon-Sun	2265002027	Signal Boar	G4	15	Constructi	U	P	NHH	NP	Monterey	NCC	MBU	8.99E-01	7.00E

2019	Annual	Mon-Sun	2265003030	Sweepers/	G4	175	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	2.08E-02	2.95E-02	2.67E-01	8.92E-07	9.06E-05	7.65E-06	2.43E-03	2.42E-08	1.94E-07	2.50E-07	4.66E-08
2019	Annual	Mon-Sun	2265003040	Other Gen	G4	15	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	5.09E+00	5.23E+00	2.30E+00	1.26E-04	7.00E-03	8.68E-05	1.07E-02	3.05E-07	5.68E-06	1.03E-05	6.61E-06
2019	Annual	Mon-Sun	2265003040	Other Gen	G4	25	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.67E+00	1.97E+00	2.00E+00	1.07E-04	6.28E-03	7.90E-05	9.04E-03	2.29E-07	4.96E-06	6.18E-06	5.62E-06
2019	Annual	Mon-Sun	2265003040	Other Gen	G4	50	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.47E+00	2.88E+00	5.24E+00	7.10E-05	6.33E-03	1.39E-04	4.03E-02	4.90E-07	3.09E-06	9.90E-06	3.71E-06
2019	Annual	Mon-Sun	2265003040	Other Gen	G4	120	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	4.84E-01	9.47E-01	3.82E+00	2.20E-05	1.48E-03	1.15E-04	3.45E-02	3.33E-07	2.67E-06	5.36E-06	1.15E-06
2019	Annual	Mon-Sun	2265003040	Other Gen	G4	175	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	4.69E-02	9.17E-02	7.87E-01	3.09E-06	2.78E-04	2.32E-05	7.15E-03	7.10E-08	5.70E-07	7.69E-07	1.61E-07
2019	Annual	Mon-Sun	2265003050	Other Mat	G4	50	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	2.08E-02	2.21E-02	5.43E-02	1.10E-06	6.77E-05	1.87E-06	4.14E-04	5.03E-09	3.17E-08	9.94E-08	5.76E-08
2019	Annual	Mon-Sun	2265003050	Other Mat	G4	120	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	9.22E-01	9.76E-01	2.67E+00	3.24E-05	1.17E-03	1.17E-04	2.38E-02	2.30E-07	1.85E-06	5.19E-06	1.70E-06
2019	Annual	Mon-Sun	2265004010	Lawn Mow	G4	5	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	2.38E+03	1.49E+03	1.84E+02	2.27E-02	4.29E-01	5.55E-03	1.02E+00	3.51E-05	3.21E-03	1.32E-03	1.19E-03
2019	Annual	Mon-Sun	2265004010	Lawn Mow	G4	5	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	3.78E+04	1.60E+03	2.22E+02	1.86E-02	6.21E-01	4.75E-03	1.09E+00	3.77E-05	2.63E-03	1.22E-03	9.69E-04
2019	Annual	Mon-Sun	2265004015	Tillers	G4	5	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	2.47E+02	3.78E+01	5.58E+00	5.15E-04	1.48E-02	1.24E-04	2.87E-02	9.90E-07	7.58E-05	3.11E-05	2.70E-05
2019	Annual	Mon-Sun	2265004015	Tillers	G4	5	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	9.60E+02	4.73E+01	7.19E+00	6.48E-04	1.98E-02	1.63E-04	3.58E-02	1.24E-06	9.00E-05	3.92E-05	3.39E-05
2019	Annual	Mon-Sun	2265004025	Trimmers/	G4	5	Lawn and G	C	P	NHH	NP	Monterey	NCC	MBU	4.35E+02	1.62E+02	5.15E+00	6.95E-04	1.24E-02	3.00E-04	2.75E-02	9.51E-07	8.98E-06	9.85E-05	3.64E-05
2019	Annual	Mon-Sun	2265004025	Trimmers/	G4	5	Lawn and G	R	P	NHH	NP	Monterey	NCC	MBU	2.03E+03	1.19E+02	4.05E+00	5.09E-04	1.07E-02	2.01E-04	2.03E-02	7.02E-07	1.22E-05	6.90E-05	2.67E-05
2019	Annual	Mon-Sun	2265004030	Leaf Blowe	G4	5	Lawn and G	C	N	NHH	P	Monterey	NCC	MBU	1.11E+02	1.88E+01	1.30E+00	9.95E-05	3.66E-03	2.36E-05	6.42E-03	2.22E-07	1.51E-05	9.30E-06	5.21E-06
2019	Annual	Mon-Sun	2265004030	Leaf Blowe	G4	5	Lawn and G	R	N	NHH	P	Monterey	NCC	MBU	9.52E+01	1.25E+00	9.33E-02	6.93E-06	2.85E-04	1.75E-06	4.27E-04	1.47E-08	8.54E-07	6.34E-07	3.63E-07
2019	Annual	Mon-Sun	2265004040	Rear Engin	G4	15	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	1.30E+03	9.69E+02	3.36E+02	1.61E-02	1.03E+00	1.11E-02	1.57E+00	4.47E-05	7.28E-04	1.56E-03	8.41E-04
2019	Annual	Mon-Sun	2265004040	Rear Engin	G4	15	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	1.14E+03	8.83E+01	3.05E+01	1.28E-03	9.34E-02	9.00E-04	1.43E-01	4.08E-06	5.73E-05	1.33E-04	6.72E-05
2019	Annual	Mon-Sun	2265004040	Rear Engin	G4	25	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	5.96E+00	4.43E+00	2.99E+00	1.38E-04	9.40E-03	9.71E-05	1.36E-02	3.44E-07	6.29E-06	1.01E-05	7.22E-06
2019	Annual	Mon-Sun	2265004040	Rear Engin	G4	25	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	5.14E+00	3.97E-01	2.67E-01	1.11E-05	8.42E-04	7.41E-06	1.22E-03	3.08E-08	4.87E-07	8.26E-07	5.83E-07
2019	Annual	Mon-Sun	2265004045	Front Mow	G4	15	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	5.98E+01	4.44E+01	2.46E+01	1.18E-03	7.50E-02	8.14E-04	1.15E-01	3.27E-06	5.33E-05	9.19E-05	6.16E-05
2019	Annual	Mon-Sun	2265004045	Front Mow	G4	15	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	1.93E+03	1.49E+02	8.24E+01	3.46E-03	2.52E-01	2.43E-03	3.86E-01	1.10E-05	1.55E-04	2.89E-04	1.81E-04
2019	Annual	Mon-Sun	2265004045	Front Mow	G4	25	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	4.68E+01	3.48E+01	2.59E+01	1.20E-03	8.16E-02	8.43E-04	1.18E-01	2.98E-06	5.46E-05	8.35E-05	6.27E-05
2019	Annual	Mon-Sun	2265004045	Front Mow	G4	25	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	1.51E+03	1.17E+02	8.70E+01	3.62E-03	2.74E-01	2.41E-03	3.95E-01	1.00E-05	1.58E-04	2.56E-04	1.90E-04
2019	Annual	Mon-Sun	2265004050	Shredders	G4	5	Lawn and G	C	P	NHH	NP	Monterey	NCC	MBU	4.69E+01	1.74E+01	4.94E+00	6.67E-04	1.19E-02	2.88E-04	2.64E-02	9.13E-07	8.62E-06	3.41E-05	3.49E-05
2019	Annual	Mon-Sun	2265004050	Shredders	G4	5	Lawn and G	R	P	NHH	NP	Monterey	NCC	MBU	1.75E+03	4.30E+00	1.47E+00	1.24E-04	4.61E-03	4.73E-05	6.52E-03	2.25E-07	5.29E-06	6.78E-06	6.49E-06
2019	Annual	Mon-Sun	2265004055	Lawn & Ga	G4	15	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	2.39E+02	8.42E+01	5.61E+01	2.26E-03	1.72E-01	1.58E-03	2.63E-01	7.50E-06	1.03E-04	1.76E-04	1.18E-04
2019	Annual	Mon-Sun	2265004055	Lawn & Ga	G4	15	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	1.55E+03	6.21E+01	4.14E+01	1.58E-03	1.27E-01	1.11E-03	1.94E-01	5.53E-06	7.07E-05	1.27E-04	8.25E-05
2019	Annual	Mon-Sun	2265004055	Lawn & Ga	G4	25	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	9.43E+01	3.32E+01	3.53E+01	1.40E-03	1.11E-01	9.34E-04	1.60E-01	4.06E-06	6.29E-05	8.63E-05	7.33E-05
2019	Annual	Mon-Sun	2265004055	Lawn & Ga	G4	25	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	6.12E+02	2.45E+01	2.60E+01	9.93E-04	8.20E-02	6.42E-04	1.18E-01	3.00E-06	4.31E-05	6.12E-05	5.20E-05
2019	Annual	Mon-Sun	2265004055	Lawn & Ga	G4	50	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	1.36E+00	3.89E-01	5.99E-01	8.12E-06	4.58E-04	1.50E-05	5.03E-03	6.12E-08	3.86E-07	1.15E-06	4.25E-07
2019	Annual	Mon-Sun	2265004060	Wood Split	G4	5	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	8.03E+01	2.83E+01	8.62E+00	9.45E-04	2.13E-02	2.30E-04	4.62E-02	1.59E-06	1.36E-04	3.78E-05	4.95E-05
2019	Annual	Mon-Sun	2265004060	Wood Split	G4	5	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	2.01E+03	6.05E+00	2.20E+00	1.35E-04	6.90E-03	3.58E-05	9.88E-03	3.41E-07	1.76E-05	6.62E-06	7.08E-06
2019	Annual	Mon-Sun	2265004065	Chippers/S	G4	15	Lawn and G	C	P	NHH	P	Monterey	NCC	MBU	1.13E+00	3.91E+00	3.48E+00	2.82E-04	1.06E-02	2.00E-04	1.59E-02	4.53E-07	1.33E-04	1.39E-05	1.45E-05
2019	Annual	Mon-Sun	2265004065	Chippers/S	G4	15	Lawn and G	R	P	NHH	P	Monterey	NCC	MBU	2.02E+00	9.13E-02	8.16E-02	5.49E-06	2.52E-04	3.33E-06	3.71E-04	1.06E-08	3.02E-06	2.72E-07	2.87E-07
2019	Annual	Mon-Sun	2265004065	Chippers/S	G4	25	Lawn and G	C	P	NHH	P	Monterey	NCC	MBU	6.43E+00	2.22E+01	3.34E+01	2.76E-03	1.04E-01	1.72E-03	1.48E-01	3.74E-06	1.24E-03	9.84E-05	1.43E-04
2019	Annual	Mon-Sun	2265004065	Chippers/S	G4	25	Lawn and G	R	P	NHH	P	Monterey	NCC	MBU	1.14E+01	5.17E-01	7.75E-01	5.16E-05	2.45E-03	2.83E-05	3.44E-03	8.71E-08	2.80E-05	1.92E-06	2.70E-06
2019	Annual	Mon-Sun	2265004070	Commercia	G4	15	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	8.46E+01	1.85E+02	1.04E+02	6.05E-03	3.18E-01	4.14E-03	4.83E-01	1.38E-05	2.70E-04	4.25E-04	3.15E-04
2019	Annual	Mon-Sun	2265004070	Commercia	G4	25	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	4.17E+01	9.13E+01	9.13E+01	5.00E-03	2.87E-01	3.69E-03	4.11E-01	1.04E-05	2.30E-04	2.87E-04	2.60E-04
2019	Annual	Mon-Sun	2265004070	Commercia	G4	50	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	1.68E+01	3.38E+01	5.82E+01	1.17E-03	9.50E-02	2.09E-03	4.08E-01	4.96E-06	3.13E-05	1.30E-04	6.10E-05
2019	Annual	Mon-Sun	2265004070	Commercia	G4	120	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	1.11E-01	2.23E-01	5.48E-01	2.65E-06	1.47E-04	1.52E-05	5.05E-03	4.88E-08	3.91E-07	9.28E-07	1.38E-07
2019	Annual	Mon-Sun	2265004075	Other Lawi	G4	5	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	7.43E+01	1.40E+01	2.99E+00	2.75E-04	7.93E-03	6.61E-05	1.53E-02	5.30E-07	4.04E-05	1.40E-05	1.44E-05
2019	Annual	Mon-Sun	2265004075	Other Lawi	G4	5	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	2.28E+03	2.68E+01	6.46E+00	4.69E-04	1.98E-02	1.19E-04	2.95E-02	1.02E-06	5.81E-05	2.52E-05	2.45E-05
2019	Annual	Mon-Sun	2265004075	Other Lawi	G4	15	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	3.30E+01	6.20E+00	2.91E+00	1.18E-04	8.90E-03	8.27E-05	1.36E-02	3.88E-07	5.41E-06	1.08E-05	6.19E-06
2019	Annual	Mon-Sun	2265004075	Other Lawi	G4	15	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	1.01E+03	1.19E+01	5.65E+00	2.43E-04	1.75E-02	1.60E-04	2.62E-02	7.46E-07	9.04E-06	2.08E-05	1.27E-05
2019	Annual	Mon-Sun	2265004075	Other Lawi	G4	25	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	6.97E-01	1.31E-01	1.35E-01	5.40E-06	4.24E-04	3.62E-06	6.12E-04	1.55E-08	2.43E-07	3.37E-07	2.83E-07
2019	Annual	Mon-Sun	2265004075	Other Lawi	G4	25	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	2.15E+01	2.53E-01	2.63E-01	1.13E-05	8.33E-04	6.66E-06	1.18E-03	3.00E-08	4.08E-07	6.32E-07	5.90E-07
2019	Annual	Mon-Sun	2265004075	Other Lawi	G4	50	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	5.05E-02	8.44E-03	1.80E-02	2.58E-07	1.28E-05	4.85E-07	1.52E-04	1.85E-09	1.17E-08	3.05E-08	1.35E-08
2019	Annual	Mon-Sun	2265004075	Other Lawi	G4	120	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	1.21E-01	2.03E-02	1.11E-01	8.56E-07	2.56E-05	4.27E-06	1.02E-03	9.89E-09	7.93E-08	1.45E-07	4.48E-08
2019	Annual	Mon-Sun	2265005010	2-Wheel Tr	G4	5	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.20E+01	1.41E+01	3.02E+00	4.32E-04	7.01E-03	1.87E-04	1.65E-02	5.70E-07	5.38E-06	2.45E-05	2.26E-05
2019	Annual	Mon-Sun	2265005010	2-Wheel Tr	G4	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.73E+01	3.40E+01	1.73E+01	1.34E-03	5.21E-02	9.51E-04	7.97E-02	2.27E-06	6.68E-04	8.81E-05	7.00E-05
2019	Annual	Mon-Sun	2265005010	2-Wheel Tr	G4	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.00E+00	9.11E-01	9.56E-01	7.57E-05	2.97E-03	4.72E-05	4.28E-03	1.08E-07	3.59E-05	3.28E-06	3.96E-06
2019	Annual	Mon-Sun	2265005015	Agricultura	G4	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.20E+01	1.80E+01	8.98E+01	1.56E-03	4.91E-02	3.62E-03	7.83E-01	7.57E-06	6.07E-05	1.17E-04	8.13E-05
2019	Annual	Mon-Sun	2265005015	Agricultura	G4	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.64E+00	2.47E+00	1.76E+01	1.95E-04	6.60E-03	8.54E-04	1.59E-01	1.58E-06	1.27E-05	2.11E-05	1.02E-05
2019	Annual	Mon-Sun	2265005020	Combines	G4	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.00E+00	1.03E+00	7.17E+00	3.32E-05	1.39E-03	7.74E-05	6.69E-02	6.46E-07	5.18E-06	4.41E-06	1.74E-06
2019	Annual	Mon-Sun	2265005020	Combines	G4	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.66E+00	5.71E-01	6.30E+00	2.09E-05	2.04E-03	7.40E-05	5.75E-02	5.71E-07	4.58E-06	3.27E-06	1.10E-06
2019	Annual	Mon-Sun	2265005020	Combines	G4	250	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	3.07E-01	1.05E-01	1.34E+00	3.81E-06	4.45E-04	3.85E-05	1.22E-02	1.25E-07	1.00E-06	1.07E-06	2.00E-07
2019	Annual	Mon-Sun	2265005025	Balers	G4	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.37E+01	8.14E+00	1.61E+01	2.65E-04	1.18E-02	4.49E-04	1.35E-01	1.65E-06	1.04E-05	2.79E-05	1.39E-05
2019	Annual	Mon-Sun	2265005025	Balers	G4	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	2.23E+01	4.17E+00	1.36E+01	1.30E-04	3.36E-03	4.55E-04	1.25E-01	1.21E-06	9.70E-06	1.83E-05	6.81E-06
2019	Annual	Mon-Sun	2265005030	Agricultura	G4	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.33E+01	1.64E+01	6.47E+00	5.00E-04	1.95E-02	3.56E-04	2.99E-02	8.52E-07	2.50E-04	3.71E-05	2.62E-05
2019	Annual	Mon-Sun	2265005030	Agricultura	G4	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	2.72E+01	1.34E+01	1.23E+01	9.71E-04	3.81E-02	6.05E-04	5.50E-02	1.39E-06	4.61E-04	4.49E-05	5.08E-05
2019	Annual	Mon-Sun	2265005035	Sprayers	G4	5	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.26E+02	3.39E+01	5.93E+00	8.30E-04	1.40E-02	3.58E-04	3.21E-02	1.11E-06	1.05E-05	5.22E-05	4.35E-05
2019	Annual	Mon-Sun	2265005035	Sprayers	G4	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.93E+01	1.06E+01	3.87E+00	3.22E-04	1.18E-02	1.98E-04	1.75E-02	4.99E-07	1.46E-04	2.21E-05	1.69E-05
2019	Annual	Mon-Sun	2265005035	Sprayers	G4	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.02E+02	2.73E+01	2.49E+01	2.06E-03	7.79E-02	1.14E-03	1.10E-01	2.79E-06	9.19E-04	8.75E-05	1.08E-04
2019	Annual	Mon-Sun	2265005035	Sprayers	G4	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	8.22E+00	1.80E+00	3.06E+00	5.13E-05	2.32E-03	8.61E-05	2.57E-02	3.12E-07	1.97E-06	5.73E-06	2.69E-06
2019	Annual	Mon-Sun	2265005035	Sprayers	G4	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.39E+01	3.04E+00	9.58E+00	9.38E-05	2.45E-03	3.23E-04	8.83E-02	8.53E-07	6.84E-06	1.32E-05	4.91E-06
2019	Annual	Mon-Sun	2265005035	Sprayers	G4	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.12E+00	6.86E-01	4.37E+00	2.66E-05	1.41E-03	1.65E-04	3.98E-02	3.96E-07	3.17E-06	4.60E-06	1.39E-06
2019	Annual	Mon-Sun	2265005040	Tillers	G4	15	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	4.30E+03	8.37E+02	4.29E+02	2.67E-02	1.31E+00	1.63E-02	1.97E+00	5.61E-05	9.94E-04	1.78E-03	1.40E-03
2019	Annual	Mon-Sun	2265005045	Swathers	G4	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.48E+01	1.17E+01	4.96E+01	4.98E-04	1.31E-02	1.68E-03	4.56E-01	4.40E-06	3.53E-05	5.98E-05	2.61E-05
2019	Annual	Mon-Sun	2265005045	Swathers	G4	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.43E+01	8.94E+00	5.46E+01	3.41E-04	1.77E-02	2.08E-03	4.98E-01	4.95E-06	3.97E-05	5.90E-05	1.78E-05
2019	Annual	Mon-Sun	2265005050	Hydro Pow	G4	5	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	7.61E+00	3.65E+00	8.81E-01	1.28E-04	2.02E-03	5.53E-05	4.84E-03	1.67E-07	1.58E-06	6.82E-06	6.71E-06
2019	Annual	Mon-Sun	2265005050	Hydro Pow	G4	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.52E+01	1.93E+01	8.90E+00	7.08E-04	2.68E-02	5.04E-04	4.10E-02	1.17E-06	3.44E-04	4.82E-05	3.70E-05
2019	Annual	Mon-Sun	2265005050	Hydro Pow	G4	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	5.79E+00	7.37E+00	7.44E+00	6.06E-04	2.31E-02	3.77E-04	3.32E-02	8.42E-07	2.78E-04	2.64E-05	3.17E-05
2019	Annual	Mon-Sun	2265005050	Hydro Pow	G4	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.10E-01	5.06E-01	1.13E+00	1.35E-05	9.95E-04	1.82E-05	9.29E-03	1.13E-07	7.12E-07	1.50E-06	7.03E-07
2019	Annual	Mon-Sun	2265005050	Hydro Pow	G4	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	5.12E-02	6.32E-02	2.15E-01	1.02E-06	4.65E-05	2.24E-06	1.99E-03	1.93E-08	1.55E-07	1.85E-07	5.32E-08
2019	Annual	Mon-Sun	2265005055	Other Agric	G4	5	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	5.30E+00	2.11E+00	4.07E-01	5.65E-05	9.61E-04	2.44E-05	2.20E-03	7.59E-08	7.16E-07	3.41E-06	2.96E-06
2019	Annual	Mon-Sun	2265005055	Other Agric	G4	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.64E+00	1.85E+00	1.04E+00	7.96E-05	3.14E-03	5.66E-05	4.80E-03	1.37E-07	4.03E-05	5.02E-06	4.17E-06
2019	Annual	Mon-Sun	2265005055	Other Agric	G4	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.18E+00	4.70E-01	6.84E-01	5.36E-05	2.12E-03	3.33E-05	3.06E-03	7.76E-08	2.57E-05	2.00E-06	2.80E-06
2019	Annual	Mon-Sun	2265005055	Other Agric	G4	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.36E+00	4.62E-01	7.60E-01	1.14E-05	5.92E-04	1.75E-05	6.36E-03	7.73E-08	4.87E-07	1.32E-06	5.97E-07
2019	Annual	Mon-Sun	2265005055	Other Agric	G4	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	7.86E+00	2.67E+00	9.12E+00	7.44E-05	2.26E-03	2.17E-04	8.41E-02	8.13E-07	6.52E-06	1.02E-05	3.90E-06
2019	Annual	Mon-Sun	2265005055	Other Agric	G4	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	8.96E-01	3.05E-01	2.08E+00	1.09E-05	6.77E-04	5.51E-05	1.89E-02	1.88E-07	1.51E-06	1.77E-06	5.69E-07
2019	Annual	Mon-Sun	2265005055	Other Agric	G4	250	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	3.33E-01	1.13E-01	1.36E+00	5.96E-06	4.55E-04	5.20E-05	1.24E-02	1.26E-07	1.01E-06	1.24E-06	3.12E-07
2019	Annual	Mon-Sun	2265006005	Generator	G4	5	Light Comr	C	N	NHH	P	Monterey	NCC	MBU	3.97E+02	1.46E+02	3.36E+01	5.18E-03	7.44E-02	1.29E-03	1.88E-01	6.48E-06	6.48E-04	2.03E-04	2.71E-04
2019	Annual	Mon-Sun	2265006005	Generator	G4	5	Light Comr	R	N	NHH	P	Monterey	NCC	MBU	3.12E+02	7.71E+01	1.83E+01	2.88E-03	4.24E-02	7.10E-04	9.92E-02	3.43E-06	3.36E-04	1.09E-04	1.51E-04
2019	Annual	Mon-Sun	2265006005	Generator	G4	15	Light Comr	C	N	NHH	P	Monterey	NCC	MBU	1.09E+03	4.01E+02	2.49E+02	1.40E-02	7.59E-01	9.57E-03	1.16E+00	3.31E-05	6.08E-04	9.52E-04	7.32E-04
2019	Annual	Mon-Sun	2265006005	Generator	G4	15	Light Comr	R	N	NHH	P	Monterey	NCC	MBU	8.56E+02	2.12E+02	1.34E+02	8.89E-03	4.12E-01	5.27E-03	6.13E-01	1.75E-05	3.19E-04	5.12E-04	4.65E-04
2019	Annual	Mon-Sun	2265006005	Generator	G4	25	Light Comr	C	N	NHH	P	Monterey	NCC	MBU	5.85E+02	2.15E+02	2.91E+02	1.56E-02	9.13E-01	1.11E-02	1.32E+00	3.34E-05	6.90E-04	7.71E-04	8.18E-04
2019	Annual	Mon-Sun	2265006005	Generator	G4	25	Light Comr	R	N	NHH	P	Monterey	NCC	MBU	4.60E+02	1.14E+02	1.56E+02	9.81E-03	4.91E-01	5.91E-03	6.96E-01	1.76E-05	3.62E-04	4.08E-04	5.13E-04
2019	Annual	Mon-Sun	2265006005	Generator	G4	50	Light Comr	U	N	NHH	P	Monterey	NCC	MBU	1.95E+02	6.13E+01	1.38E+02	2.14E-03	1.12E-01	3.92E-03	1.15E+00	1.40E-05	8.82E-05	2.35E-04	1.12E-04
2019	Annual	Mon-Sun	2265006005	Generator	G4	120	Light Comr	U	N	NHH	P	Monterey	NCC	MBU	3.76E+01	1.18E+01	6.20E+01	5.29E-04	1.65E-02	2.46E-03	5.70E-01	5.51E-06	4.42E-05	8.40E-05	2.77E-05
2019	Annual	Mon-Sun	2265006005	Generator	G4	175	Light Comr	U	N	NHH	P	Monterey	NCC	MBU	3.55E+00	1.12E+00	1.01E+01	5.21E-05	3.29E-03	4.35E-04	9.22E-02	9.16E-07	7.34E-06	1.11E-05	2.73E-06
2019	Annual	Mon-Sun	2265006010	Pumps	G4	5	Light Comr	C	P	NHH	P	Monterey	NCC	MBU	1.41E+02	9.94E+01	1.68E+01	2.79E-03	3.46E-02	1.21E-03	9.74E-02	3.36E-06	3.17E-05	1.65E-04	1.46E-04
2019	Annual	Mon-Sun	2265006010	Pumps	G4	5	Light Comr	R	P	NHH	P	Monterey	NCC	MBU	1.11E+02	5.25E+01	9.17E+00	1.56E-03	1.98E-02	6.24E-04	5.14E-02	1.78E-06	3.23E-05	8.61E-05	8.18E-05
2019	Annual	Mon-Sun	2265006010	Pumps	G4	15	Light Comr	C	P	NHH	P	Monterey	NCC	MBU	1.52E+02	1.08E+02	6.10E+01	4.79E-03	1.84E-01	3.41E-03	2.81E-01	8.02E-06	2.36E-03	2.98E-04

2019	Annual	Mon-Sun	2265008111	Hydrant tru	G4	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	3.22E-01	1.35E+00	1.08E+01	1.52E-04	5.13E-03	6.52E-04	9.54E-02	8.10E-07	7.60E-06	1.49E-05	7.87E-06
2019	Annual	Mon-Sun	2265009005	Transport I	G4	15	Transport I	U	N	NHH	NP	Monterey	NCC	MBU	7.05E+01	1.45E+02	8.88E+01	5.15E-03	2.70E-01	3.52E-03	4.12E-01	1.18E-05	2.30E-04	3.49E-04	2.69E-04
2019	Annual	Mon-Sun	2266003010	Aerial Lifts	C4	15	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	9.90E-02	1.02E-01	8.15E-02	1.89E-07	7.31E-05	2.00E-06	4.53E-04	0.00E+00	2.07E-07	0.00E+00	1.58E-06
2019	Annual	Mon-Sun	2266003010	Aerial Lifts	C4	25	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	4.25E+00	4.37E+00	5.20E+00	1.82E-05	4.83E-03	1.33E-04	2.84E-02	0.00E+00	1.46E-05	0.00E+00	1.52E-04
2019	Annual	Mon-Sun	2266003020	Forklifts	C4	25	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	4.17E-02	1.43E-01	1.40E-01	8.88E-07	1.41E-04	3.93E-06	7.33E-04	0.00E+00	4.82E-07	0.00E+00	7.44E-06
2019	Annual	Mon-Sun	2266003020	Forklifts	C4	50	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	2.82E+01	1.39E+02	1.86E+02	1.23E-04	2.04E-02	5.35E-03	1.27E+00	0.00E+00	1.13E-04	0.00E+00	1.03E-03
2019	Annual	Mon-Sun	2266003020	Forklifts	C4	120	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	9.91E+01	4.89E+02	1.16E+03	7.28E-04	3.44E-01	3.45E-02	7.64E+00	0.00E+00	6.79E-04	0.00E+00	6.10E-03
2019	Annual	Mon-Sun	2266003020	Forklifts	C4	175	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	3.63E+00	1.79E+01	8.74E+01	3.36E-05	2.02E-02	1.73E-03	5.83E-01	0.00E+00	5.18E-05	0.00E+00	2.81E-04
2019	Annual	Mon-Sun	2266006005	Generator	C4	120	Light Comr	U	N	NHH	P	Monterey	NCC	MBU	2.80E+00	8.81E-01	5.52E+00	2.06E-06	1.16E-03	1.47E-04	3.70E-02	0.00E+00	3.29E-06	0.00E+00	1.73E-05
2019	Annual	Mon-Sun	2266006005	Generator	C4	175	Light Comr	U	N	NHH	P	Monterey	NCC	MBU	2.32E+00	7.30E-01	7.97E+00	2.34E-06	1.39E-03	2.07E-04	5.39E-02	0.00E+00	4.80E-06	0.00E+00	1.96E-05
2019	Annual	Mon-Sun	2266006020	Gas Compr	C4	50	Light Comr	U	P	NHH	P	Monterey	NCC	MBU	4.35E-01	1.01E+01	3.46E+01	1.97E-05	3.49E-03	7.16E-04	2.38E-01	0.00E+00	1.82E-05	0.00E+00	1.65E-04
2019	Annual	Mon-Sun	2266006020	Gas Compr	C4	120	Light Comr	U	P	NHH	P	Monterey	NCC	MBU	8.99E-01	2.09E+01	2.03E+02	1.07E-04	5.59E-02	4.24E-03	1.34E+00	0.00E+00	1.04E-04	0.00E+00	9.01E-04
2019	Annual	Mon-Sun	2266006020	Gas Compr	C4	175	Light Comr	U	P	NHH	P	Monterey	NCC	MBU	1.45E-01	3.38E+00	5.21E+01	3.00E-05	1.14E-02	1.13E-03	3.48E-01	0.00E+00	2.77E-05	0.00E+00	2.51E-04
2019	Annual	Mon-Sun	2266006020	Gas Compr	C4	250	Light Comr	U	N	NHH	P	Monterey	NCC	MBU	1.16E-01	2.70E+00	5.39E+01	2.31E-05	1.31E-02	1.10E-03	3.59E-01	0.00E+00	3.19E-05	0.00E+00	1.93E-04
2019	Annual	Mon-Sun	2266006020	Gas Compr	C4	500	Light Comr	U	N	NHH	P	Monterey	NCC	MBU	1.02E-01	2.36E+00	7.59E+01	3.25E-05	1.84E-02	1.55E-03	5.05E-01	0.00E+00	4.49E-05	0.00E+00	2.72E-04
2019	Annual	Mon-Sun	2266008010	Cargo Trac	C4	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	3.80E-01	1.63E-01	1.50E+00	4.38E-07	2.67E-04	3.72E-05	1.02E-02	0.00E+00	9.03E-07	0.00E+00	3.67E-06
2019	Annual	Mon-Sun	2266008025	Air Conditi	C4	175	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	6.34E-02	3.83E-03	4.10E-02	9.61E-09	6.85E-06	9.62E-07	2.78E-04	0.00E+00	2.47E-08	0.00E+00	8.06E-08
2019	Annual	Mon-Sun	2266008035	Baggage Tu	C4	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	8.98E-01	2.04E+00	1.28E+01	1.18E-05	3.72E-03	4.84E-04	8.36E-02	0.00E+00	7.44E-06	0.00E+00	9.88E-05
2019	Annual	Mon-Sun	2266008040	Belt Loade	C4	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	2.39E-01	3.61E-01	1.22E+00	8.57E-07	3.17E-04	4.03E-05	8.06E-03	0.00E+00	7.17E-07	0.00E+00	7.18E-06
2019	Annual	Mon-Sun	2266008045	Bobtail	C4	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	2.05E-02	4.93E-02	3.03E-01	1.07E-07	7.26E-05	6.60E-06	2.02E-03	0.00E+00	1.79E-07	0.00E+00	8.96E-07
2019	Annual	Mon-Sun	2266008050	Cargo Load	C4	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	9.65E-02	2.73E-01	1.09E+00	1.18E-06	3.42E-04	4.53E-05	7.11E-03	0.00E+00	6.32E-07	0.00E+00	9.91E-06
2019	Annual	Mon-Sun	2266008065	Forklift	C4	50	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.26E+00	2.50E+00	4.05E+00	1.29E-06	3.46E-04	9.36E-05	2.79E-02	0.00E+00	2.48E-06	0.00E+00	1.08E-05
2019	Annual	Mon-Sun	2266008070	Fuel Truck	C4	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	4.21E-02	6.53E-02	2.53E-01	1.17E-07	5.28E-05	7.25E-06	1.70E-03	0.00E+00	1.51E-07	0.00E+00	9.83E-07
2019	Annual	Mon-Sun	2266008085	Lav Truck	C4	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	3.78E-02	4.01E-02	1.44E-01	5.60E-08	2.81E-05	3.88E-06	9.69E-04	0.00E+00	8.62E-08	0.00E+00	4.69E-07
2019	Annual	Mon-Sun	2266008090	Lift	C4	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	3.53E-02	3.30E-02	1.85E-01	9.82E-08	4.36E-05	5.41E-06	1.23E-03	0.00E+00	1.09E-07	0.00E+00	8.24E-07
2019	Annual	Mon-Sun	2266008100	Other	C4	50	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.85E-01	5.16E-01	1.40E+00	1.53E-06	1.63E-04	6.09E-05	9.58E-03	0.00E+00	8.52E-07	0.00E+00	1.28E-05
2019	Annual	Mon-Sun	2266008101	Passenger	C4	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.63E-02	5.37E-04	5.73E-03	1.32E-09	9.54E-07	1.34E-07	3.89E-05	0.00E+00	3.46E-09	0.00E+00	1.11E-08
2019	Annual	Mon-Sun	2266008102	Sweeper	C4	50	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.63E-02	1.24E-02	3.07E-02	1.18E-08	2.55E-06	8.91E-07	2.12E-04	0.00E+00	1.89E-08	0.00E+00	9.93E-08
2019	Annual	Mon-Sun	2266008105	Service Tru	C4	250	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.87E-01	6.66E-01	2.68E+00	1.26E-06	6.30E-04	6.22E-05	1.78E-02	0.00E+00	1.59E-06	0.00E+00	1.06E-05
2019	Annual	Mon-Sun	2266008106	Catering Tr	C4	250	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	7.14E-02	8.85E-02	1.04E+00	4.34E-07	2.09E-04	2.88E-05	7.02E-03	0.00E+00	6.24E-07	0.00E+00	3.64E-06
2019	Annual	Mon-Sun	2270002003	Pavers	D	25	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.30E-01	2.93E-01	2.49E-01	3.30E-06	1.12E-05	2.09E-05	2.73E-03	3.46E-08	8.15E-07	0.00E+00	2.98E-07
2019	Annual	Mon-Sun	2270002003	Pavers	D	50	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	7.56E+00	1.72E+01	2.24E+01	7.72E-04	2.68E-03	2.12E-03	2.41E-01	3.12E-06	1.72E-04	0.00E+00	6.97E-05
2019	Annual	Mon-Sun	2270002003	Pavers	D	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	8.91E+00	2.03E+01	6.43E+01	9.81E-04	4.90E-03	5.91E-03	7.02E-01	8.24E-06	4.72E-04	0.00E+00	8.85E-05
2019	Annual	Mon-Sun	2270002003	Pavers	D	175	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	5.54E+00	1.26E+01	7.39E+01	8.12E-04	4.80E-03	5.60E-03	8.10E-01	9.11E-06	3.14E-04	0.00E+00	7.33E-05
2019	Annual	Mon-Sun	2270002003	Pavers	D	250	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	6.68E-01	1.52E+00	1.34E+01	1.13E-04	3.69E-04	9.18E-04	1.48E-01	1.66E-06	3.40E-05	0.00E+00	1.02E-05
2019	Annual	Mon-Sun	2270002003	Pavers	D	500	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	6.85E-01	1.56E+00	1.65E+01	1.31E-04	5.13E-04	1.02E-03	1.82E-01	1.79E-06	3.84E-05	0.00E+00	1.18E-05
2019	Annual	Mon-Sun	2270002009	Plate Comp	D	15	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	2.79E+00	4.59E+00	9.04E-01	1.15E-05	6.04E-05	7.22E-05	9.90E-03	1.54E-07	2.82E-06	0.00E+00	1.04E-06
2019	Annual	Mon-Sun	2270002015	Rollers	D	15	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	5.25E+00	1.00E+01	2.88E+00	3.67E-05	1.93E-04	2.30E-04	3.16E-02	4.91E-07	8.99E-06	0.00E+00	3.32E-06
2019	Annual	Mon-Sun	2270002015	Rollers	D	25	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	2.19E+00	4.18E+00	2.54E+00	3.36E-05	1.15E-04	2.12E-04	2.79E-02	3.54E-07	7.93E-06	0.00E+00	3.03E-06
2019	Annual	Mon-Sun	2270002015	Rollers	D	50	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	6.82E+00	1.31E+01	1.57E+01	3.92E-04	1.63E-03	1.38E-03	1.70E-01	2.20E-06	9.32E-05	0.00E+00	3.54E-05
2019	Annual	Mon-Sun	2270002015	Rollers	D	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	3.66E+01	7.04E+01	1.90E+02	2.20E-03	1.37E-02	1.44E-02	2.07E+00	2.43E-05	1.07E-03	0.00E+00	1.98E-04
2019	Annual	Mon-Sun	2270002015	Rollers	D	175	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.47E+01	2.83E+01	1.39E+02	1.18E-03	8.65E-03	8.37E-03	1.53E+00	1.72E-05	4.51E-04	0.00E+00	1.06E-04
2019	Annual	Mon-Sun	2270002015	Rollers	D	250	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	2.09E+00	4.01E+00	2.78E+01	1.78E-04	6.52E-04	1.47E-03	3.07E-01	3.45E-06	4.96E-05	0.00E+00	1.60E-05
2019	Annual	Mon-Sun	2270002015	Rollers	D	500	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	1.47E+00	2.82E+00	2.79E+01	1.69E-04	6.67E-04	1.31E-03	3.08E-01	3.02E-06	4.65E-05	0.00E+00	1.53E-05
2019	Annual	Mon-Sun	2270002018	Scrapers	D	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	3.38E-01	1.03E+00	4.42E+00	6.65E-05	3.41E-04	3.92E-04	4.82E-02	5.66E-07	3.10E-05	0.00E+00	6.00E-06
2019	Annual	Mon-Sun	2270002018	Scrapers	D	175	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	3.10E+00	9.41E+00	6.36E+01	6.98E-04	4.20E-03	4.62E-03	6.96E-01	7.83E-06	2.59E-04	0.00E+00	6.30E-05
2019	Annual	Mon-Sun	2270002018	Scrapers	D	250	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	3.02E+00	9.18E+00	8.71E+01	7.37E-04	2.37E-03	5.68E-03	9.60E-01	1.08E-05	2.08E-04	0.00E+00	6.65E-05
2019	Annual	Mon-Sun	2270002018	Scrapers	D	500	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	8.31E+00	2.53E+01	3.68E+02	2.94E-03	1.11E-02	2.15E-02	4.06E+00	3.98E-05	8.11E-04	0.00E+00	2.65E-04
2019	Annual	Mon-Sun	2270002018	Scrapers	D	750	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	4.15E-01	1.26E+00	3.18E+01	2.55E-04	9.58E-04	1.90E-03	3.50E-01	3.52E-06	7.08E-05	0.00E+00	2.30E-05
2019	Annual	Mon-Sun	2270002021	Paving Equ	D	25	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	2.25E-01	5.12E-01	2.94E-01	3.90E-06	1.33E-05	2.46E-05	3.23E-03	4.10E-08	9.20E-07	0.00E+00	3.52E-07
2019	Annual	Mon-Sun	2270002021	Paving Equ	D	50	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.91E-01	4.37E-01	4.85E-01	1.65E-05	5.75E-05	4.59E-05	5.22E-03	6.75E-08	3.72E-06	0.00E+00	1.49E-06
2019	Annual	Mon-Sun	2270002021	Paving Equ	D	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	2.75E+00	6.30E+00	1.57E+01	2.37E-04	1.19E-03	1.43E-03	1.71E-01	2.01E-06	1.15E-04	0.00E+00	2.14E-05
2019	Annual	Mon-Sun	2270002021	Paving Equ	D	175	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.29E+00	2.96E+00	1.36E+01	1.48E-04	8.81E-04	1.03E-03	1.49E-01	1.68E-06	5.77E-05	0.00E+00	1.33E-05
2019	Annual	Mon-Sun	2270002021	Paving Equ	D	250	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	3.64E-01	8.34E-01	4.62E+00	3.79E-05	1.24E-04	3.15E-04	5.10E-02	5.73E-07	1.14E-05	0.00E+00	3.42E-06
2019	Annual	Mon-Sun	2270002024	Surfacing E	D	50	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.73E-01	2.15E-01	1.39E-01	3.10E-06	1.30E-05	1.18E-05	1.51E-03	1.96E-08	7.51E-07	0.00E+00	2.80E-07
2019	Annual	Mon-Sun	2270002024	Surfacing E	D	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	3.47E-02	4.30E-02	1.25E-01	1.32E-06	8.69E-06	9.29E-06	1.37E-03	1.61E-08	6.47E-07	0.00E+00	1.19E-07
2019	Annual	Mon-Sun	2270002024	Surfacing E	D	175	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	2.60E-02	3.22E-02	1.26E-01	9.52E-07	7.52E-06	7.41E-06	1.38E-03	1.55E-08	3.74E-07	0.00E+00	8.59E-08
2019	Annual	Mon-Sun	2270002024	Surfacing E	D	250	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	5.20E-02	6.45E-02	3.93E-01	2.22E-06	9.02E-06	2.04E-05	4.34E-03	4.89E-08	6.69E-07	0.00E+00	2.01E-07
2019	Annual	Mon-Sun	2270002024	Surfacing E	D	500	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	4.34E-01	5.37E-01	5.38E+00	2.85E-05	1.31E-04	2.50E-04	5.94E-02	5.83E-07	8.51E-06	0.00E+00	2.57E-06
2019	Annual	Mon-Sun	2270002024	Surfacing E	D	750	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	7.94E-02	9.84E-02	1.54E+00	8.26E-06	3.76E-05	7.36E-05	1.71E-02	1.71E-07	2.48E-06	0.00E+00	7.45E-07
2019	Annual	Mon-Sun	2270002027	Signal Boar	D	15	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	2.44E+01	5.02E+01	1.41E+01	1.80E-04	9.45E-04	1.13E-03	1.55E-01	2.41E-06	4.41E-05	0.00E+00	1.63E-05
2019	Annual	Mon-Sun	2270002027	Signal Boar	D	50	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.21E-01	1.78E-01	2.95E-01	5.02E-06	2.57E-05	2.42E-05	3.22E-03	4.16E-08	1.34E-06	0.00E+00	4.53E-07
2019	Annual	Mon-Sun	2270002027	Signal Boar	D	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.99E+00	2.91E+00	1.06E+01	8.97E-05	7.23E-04	7.00E-04	1.17E-01	1.37E-06	4.44E-05	0.00E+00	8.09E-06
2019	Annual	Mon-Sun	2270002027	Signal Boar	D	175	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.23E+00	1.81E+00	1.27E+01	7.89E-05	7.47E-04	6.38E-04	1.39E-01	1.57E-06	3.07E-05	0.00E+00	7.12E-06
2019	Annual	Mon-Sun	2270002027	Signal Boar	D	250	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	2.60E-01	3.82E-01	4.40E+00	2.06E-05	9.16E-05	1.90E-04	4.87E-02	5.48E-07	5.72E-06	0.00E+00	1.86E-06
2019	Annual	Mon-Sun	2270002030	Trenchers	D	15	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	6.50E-01	1.10E+00	4.26E-01	5.42E-06	2.85E-05	3.40E-05	4.66E-03	7.25E-08	1.33E-06	0.00E+00	4.89E-07
2019	Annual	Mon-Sun	2270002030	Trenchers	D	25	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	6.85E-01	1.16E+00	1.74E+00	2.30E-05	7.86E-05	1.46E-04	1.91E-02	2.42E-07	5.44E-06	0.00E+00	2.08E-06
2019	Annual	Mon-Sun	2270002030	Trenchers	D	50	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	2.61E+01	4.49E+01	6.85E+01	2.38E-03	8.00E-03	6.46E-03	7.38E-01	9.55E-06	5.29E-04	0.00E+00	2.15E-04
2019	Annual	Mon-Sun	2270002030	Trenchers	D	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	3.53E+01	6.09E+01	1.81E+02	2.74E-03	1.36E-02	1.69E-02	1.97E+00	2.31E-05	1.34E-03	0.00E+00	2.47E-04
2019	Annual	Mon-Sun	2270002030	Trenchers	D	175	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	3.87E+00	6.66E+00	4.37E+01	4.73E-04	2.80E-03	3.39E-03	4.79E-01	5.39E-06	1.87E-04	0.00E+00	4.27E-05
2019	Annual	Mon-Sun	2270002030	Trenchers	D	250	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	3.47E-01	5.97E-01	6.03E+00	5.03E-05	1.68E-04	4.24E-04	6.65E-02	7.48E-07	1.59E-05	0.00E+00	4.54E-06
2019	Annual	Mon-Sun	2270002030	Trenchers	D	500	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	4.42E-01	7.62E-01	1.07E+01	8.36E-05	3.47E-04	6.81E-04	1.18E-01	1.16E-06	2.59E-05	0.00E+00	7.55E-06
2019	Annual	Mon-Sun	2270002030	Trenchers	D	750	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	1.59E-02	2.73E-02	7.27E-01	5.68E-06	2.35E-05	4.70E-05	8.02E-03	8.06E-08	1.77E-06	0.00E+00	5.13E-07
2019	Annual	Mon-Sun	2270002033	Bore/Drill f	D	15	Constructio	U	P	NHH	P	Monterey	NCC	MBU	8.67E-02	1.93E-01	9.10E-02	1.16E-06	6.09E-06	7.26E-06	9.97E-04	1.55E-08	2.84E-07	0.00E+00	1.05E-07
2019	Annual	Mon-Sun	2270002033	Bore/Drill f	D	25	Constructio	U	P	NHH	P	Monterey	NCC	MBU	2.60E-01	5.79E-01	4.21E-01	5.57E-06	1.90E-05	3.52E-05	4.62E-03	5.86E-08	1.31E-06	0.00E+00	5.03E-07
2019	Annual	Mon-Sun	2270002033	Bore/Drill f	D	50	Constructio	U	P	NHH	P	Monterey	NCC	MBU	1.14E+00	2.62E+00	3.70E+00	2.61E-05	2.88E-04	2.38E-04	4.06E-02	5.24E-07	3.41E-06	0.00E+00	2.35E-06
2019	Annual	Mon-Sun	2270002033	Bore/Drill f	D	120	Constructio	U	P	NHH	P	Monterey	NCC	MBU	3.49E+00	8.03E+00	2.82E+01	1.17E-04	1.87E-03	1.00E-03	3.09E-01	3.63E-06	2.16E-05	0.00E+00	1.06E-05
2019	Annual	Mon-Sun	2270002033	Bore/Drill f	D	175	Constructio	U	P	NHH	P	Monterey	NCC	MBU	8.06E-01	1.86E+00	1.19E+01	4.04E-05	7.00E-04	2.17E-04	1.31E-01	1.47E-06	6.31E-06	0.00E+00	3.65E-06
2019	Annual	Mon-Sun	2270002033	Bore/Drill f	D	250	Constructio	U	N	NHH	P	Monterey	NCC	MBU	6.94E-01	1.60E+00	1.36E+01	4.01E-05	2.73E-04	1.60E-04	1.50E-01	1.69E-06	4.27E-06	0.00E+00	3.62E-06
2019	Annual	Mon-Sun	2270002033	Bore/Drill f	D	500	Constructio	U	N	NHH	P	Monterey	NCC	MBU	1.54E+00	3.56E+00	5.00E+01	1.47E-04	9.79E-04	5.75E-04	5.53E-01	5.43E-06	1.56E-05	0.00E+00	1.33E-05
2019	Annual	Mon-Sun	2270002033	Bore/Drill f	D	750	Constructio	U	N	NHH	P	Monterey	NCC	MBU	2.46E-01	5.67E-01	1.57E+01	4.64E-05	3.08E-04	1.82E-04	1.74E-01	1.75E-06	4.93E-06	0.00E+00	4.19E-06
2019	Annual	Mon-Sun	2270002033	Bore/Drill f	D	1000	Constructio	U	N	NHH	P	Monterey	NCC	MBU	4.13E-01	9.50E-01	3.98E+01	1.23E-04	7.80E-04	1.93E-03	4.40E-01	4.43E-06	2.91E-05	0.00E+00	1.11E-05
2019	Annual	Mon-Sun	2270002036	Excavators	D	25	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	3.21E-01	1.23E+00	9.19E-01	1.22E-05	4.15E-05	7.69E-05	1.01E-02	1.28E-07	2.87E-06	0.00E+00	1.10E-06
2019	Annual	Mon-Sun	2270002036	Excavators	D	50	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.21E+01	4.69E+01	5.39E+01	9.88E-04	5.81E-03	4.52E-03	5.86E-01	7.57E-06	2.21E-04	0.00E+00	8.91E-05
2019	Annual	Mon-Sun	2270002036	Excavators	D	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	3.28E+01	1.27E+02	4.28E+02	4.03E-03	3.18E-02	2.58E-02	4.68E+00	5.49E-05	1.55E-03	0.00E+00	3.63E-04
2019	Annual	Mon-Sun	2270002036	Excavators	D	175	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	6.33E+01	2.46E+02	1.25E+03	9.31E-03	8.14E-02	5.44E-02	1.38E+01	1.55E-04	2.78E-03	0.00E+00	8.40E-04
2019	Annual	Mon-Sun	2270002036	Excavators	D	250	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	2.57E+01	9.99E+01	7.17E+02	4.38E-03	1.65E-02	2.59E-02	7.92E+00	8.91E-05	8.80E-04	0.00E+00	3.95E-04
2019	Annual	Mon-Sun	2270002036	Excavators	D	500	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	1.86E+01	7.20E+01	7.62E+02	4.56E-03	1.67E-02	2.48E-02	8.41E+00	8.26E-05	9.00E-04	0.00E+00	4.11E-04
2019	Annual	Mon-Sun	2270002036	Excavators	D	750	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	1.24E-01	4.82E-01	8.45E+00	5.07E-05	1.85E-04	2.81E-04	9.34E-02	9.39E-07	1.01E-05	0.00E+00	4.58E-06
2019	Annual	Mon-Sun	2270002039	Concrete/I	D	25	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	3.47E-02	5.63E-02	4.22E-02	5.59E-07	1.91E-06	3.53E-06	4.63E-04	5.88E-09	1.32E-07	0.00E+00	5.04E-08
2019	Annual	Mon-Sun	2270002039	Concrete/I	D	50	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	3.03E-01	4.83E-01	6.69E-01	1.15E-05	5.95E-05	5.56E-05	7.28E-03	9.42E-08	3.11E-06	0.00E+00	1.04E-06
2019	Annual	Mon-Sun	2270002039	Concrete/I	D	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	5.29E-01	8.41E-01	2.84E+00	2.43E-05	1.95E-04	1.89E-04	3.12E-02	3.66E-07	1.21E-05	0.00E+00	2.19E-06
2019	Annual	Mon-Sun	2270002039	Concrete/I	D	175	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.73E-02	2.76E-02	2.01E-01	1.28E-06	1.19E-05	1.02E-05	2.21E-03	2.48E-08	5.00E-07	0.00E+00	1.16E-07
2019	Annual	Mon-Sun	2270002042	Cement an	D	15	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	4.43E+00	3.65E+00	1.05E+00	1.34E-05	7.03E-05	8.39E-05	1.15E-02	1.79E-07	3.29E-06	0.00E+00	1.21E-06
2019	Annual	Mon-Sun	2270002042	Cement an	D	25	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	3.99E-01	3.28E-01	2.62E-01	3.73E-06	1.22E-05	2.26E-05	2.88E-03	3.65E-08	9.95E-07	0.00E+00	3.36E-07
2019	Annual	Mon-Sun	2270002045	Cranes	D

2019	Annual	Mon-Sun	2270002069	Crawler Tra	D	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	6.89E+01	1.96E+02	5.91E+02	8.67E-03	4.56E-02	5.12E-02	6.45E+00	7.57E-05	3.99E-03	0.00E+00	7.82E-04
2019	Annual	Mon-Sun	2270002069	Crawler Tra	D	175	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	2.33E+01	6.64E+01	3.67E+02	3.95E-03	2.43E-02	2.59E-02	4.02E+00	4.52E-05	1.45E-03	0.00E+00	3.57E-04
2019	Annual	Mon-Sun	2270002069	Crawler Tra	D	250	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	2.00E+01	5.71E+01	4.29E+02	3.58E-03	1.16E-02	2.71E-02	4.74E+00	5.33E-05	9.93E-04	0.00E+00	3.23E-04
2019	Annual	Mon-Sun	2270002069	Crawler Tra	D	500	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	1.37E+01	3.91E+01	4.59E+02	3.62E-03	1.35E-02	2.60E-02	5.06E+00	4.97E-05	9.80E-04	0.00E+00	3.27E-04
2019	Annual	Mon-Sun	2270002069	Crawler Tra	D	750	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	2.12E-01	6.03E-01	1.27E+01	1.01E-04	3.74E-04	7.35E-04	1.40E-01	1.41E-06	2.74E-05	0.00E+00	9.07E-06
2019	Annual	Mon-Sun	2270002069	Crawler Tra	D	1000	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	2.12E-01	6.02E-01	1.80E+01	1.53E-04	5.81E-04	1.64E-03	1.98E-01	1.99E-06	4.63E-05	0.00E+00	1.38E-05
2019	Annual	Mon-Sun	2270002072	Skid Steer	D	25	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.66E+01	3.81E+01	2.39E+01	3.30E-04	1.10E-03	2.04E-03	2.62E-01	3.33E-06	8.66E-05	0.00E+00	2.97E-05
2019	Annual	Mon-Sun	2270002072	Skid Steer	D	50	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.51E+02	3.52E+02	4.11E+02	4.30E-03	3.55E-02	3.02E-02	4.49E+00	5.80E-05	9.38E-04	0.00E+00	3.88E-04
2019	Annual	Mon-Sun	2270002072	Skid Steer	D	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	7.91E+01	1.84E+02	3.59E+02	2.13E-03	2.46E-02	1.65E-02	3.94E+00	4.62E-05	7.24E-04	0.00E+00	1.93E-04
2019	Annual	Mon-Sun	2270002075	Off-Highwa	D	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	8.67E-03	2.64E-02	1.13E-01	2.02E-06	9.01E-06	1.17E-05	1.24E-03	1.45E-08	9.54E-07	0.00E+00	1.83E-07
2019	Annual	Mon-Sun	2270002075	Off-Highwa	D	175	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.06E+01	3.23E+01	1.92E+02	2.47E-03	1.30E-02	1.68E-02	2.10E+00	2.37E-05	9.47E-04	0.00E+00	2.23E-04
2019	Annual	Mon-Sun	2270002075	Off-Highwa	D	250	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	1.00E+01	3.05E+01	1.81E+02	1.84E-03	5.69E-03	1.45E-02	1.99E+00	2.24E-05	5.77E-04	0.00E+00	1.66E-04
2019	Annual	Mon-Sun	2270002075	Off-Highwa	D	750	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	1.33E+00	4.04E+00	1.04E+02	9.94E-04	4.02E-03	7.71E-03	1.15E+00	1.15E-05	3.04E-04	0.00E+00	8.97E-05
2019	Annual	Mon-Sun	2270002075	Off-Highwa	D	1000	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	1.40E-01	4.26E-01	1.58E+01	1.59E-04	6.64E-04	1.65E-03	1.73E-01	1.74E-06	5.04E-05	0.00E+00	1.44E-05
2019	Annual	Mon-Sun	2270002078	Dumpers/T	D	25	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	2.08E-01	3.78E-01	1.31E-01	1.74E-06	5.92E-06	1.10E-05	1.44E-03	1.83E-08	4.23E-07	0.00E+00	1.57E-07
2019	Annual	Mon-Sun	2270002081	Other Cons	D	15	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	2.87E+00	5.43E+00	2.50E+00	3.19E-05	1.67E-04	2.00E-04	2.74E-02	4.27E-07	7.81E-06	0.00E+00	2.88E-06
2019	Annual	Mon-Sun	2270002081	Other Cons	D	25	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	4.86E-01	9.19E-01	5.53E-01	7.32E-06	2.50E-05	4.62E-05	6.07E-03	7.70E-08	1.73E-06	0.00E+00	6.60E-07
2019	Annual	Mon-Sun	2270002081	Other Cons	D	50	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	7.46E-01	1.43E+00	1.83E+00	2.59E-05	1.64E-04	1.45E-04	2.00E-02	2.58E-07	6.57E-06	0.00E+00	2.34E-06
2019	Annual	Mon-Sun	2270002081	Other Cons	D	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.23E+00	2.36E+00	8.69E+00	6.42E-05	6.01E-04	4.92E-04	9.53E-02	1.12E-06	2.77E-05	0.00E+00	5.79E-06
2019	Annual	Mon-Sun	2270002081	Other Cons	D	175	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.70E+00	3.26E+00	1.58E+01	9.15E-05	9.53E-04	6.37E-04	1.73E-01	1.95E-06	3.07E-05	0.00E+00	8.26E-06
2019	Annual	Mon-Sun	2270002081	Other Cons	D	500	Constructio	U	N	NHH	NP	Monterey	NCC	MBU	3.95E+00	7.56E+00	8.69E+01	4.03E-04	1.78E-03	2.64E-03	9.60E-01	9.43E-06	9.17E-05	0.00E+00	3.64E-05
2019	Annual	Mon-Sun	2270003010	Aerial Lifts	D	15	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	2.17E+00	2.37E+00	9.37E-01	1.19E-05	6.26E-05	7.48E-05	1.03E-02	1.60E-07	2.92E-06	0.00E+00	1.08E-06
2019	Annual	Mon-Sun	2270003010	Aerial Lifts	D	25	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	3.54E+00	3.88E+00	1.93E+00	2.70E-05	8.95E-05	1.66E-04	2.12E-02	2.69E-07	7.09E-06	0.00E+00	2.44E-06
2019	Annual	Mon-Sun	2270003010	Aerial Lifts	D	50	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	1.29E+01	1.36E+01	1.22E+01	1.89E-04	9.81E-04	9.87E-04	1.33E-01	1.73E-06	5.25E-05	0.00E+00	1.70E-05
2019	Annual	Mon-Sun	2270003010	Aerial Lifts	D	120	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	1.15E+01	1.21E+01	2.09E+01	1.66E-04	1.38E-03	1.38E-03	2.30E-01	2.69E-06	8.36E-05	0.00E+00	1.50E-05
2019	Annual	Mon-Sun	2270003010	Aerial Lifts	D	500	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.47E+00	1.55E+00	1.49E+01	5.95E-05	2.96E-04	5.83E-04	1.65E-01	1.62E-06	1.81E-05	0.00E+00	5.37E-06
2019	Annual	Mon-Sun	2270003010	Aerial Lifts	D	750	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.18E-01	1.25E-01	2.16E+00	8.77E-06	4.30E-05	8.67E-05	2.39E-02	2.41E-07	2.66E-06	0.00E+00	7.91E-07
2019	Annual	Mon-Sun	2270003020	Forklifts	D	50	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	3.92E+00	1.94E+01	1.30E+01	1.93E-04	1.35E-03	1.08E-03	1.42E-01	1.83E-06	4.36E-05	0.00E+00	1.75E-05
2019	Annual	Mon-Sun	2270003020	Forklifts	D	120	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	6.15E+00	3.04E+01	4.32E+01	3.58E-04	3.18E-03	2.33E-03	4.74E-01	5.56E-06	1.29E-04	0.00E+00	3.23E-05
2019	Annual	Mon-Sun	2270003020	Forklifts	D	175	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	6.18E+00	3.05E+01	7.79E+01	5.38E-04	5.04E-03	2.98E-03	8.55E-01	9.62E-06	1.54E-04	0.00E+00	4.86E-05
2019	Annual	Mon-Sun	2270003020	Forklifts	D	250	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	6.14E+00	3.03E+01	1.06E+02	6.09E-04	2.34E-03	3.24E-03	1.17E+00	1.31E-05	1.11E-04	0.00E+00	5.49E-05
2019	Annual	Mon-Sun	2270003020	Forklifts	D	500	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	2.63E+00	1.30E+01	6.51E+01	3.70E-04	1.37E-03	1.85E-03	7.19E-01	7.06E-06	6.67E-05	0.00E+00	3.34E-05
2019	Annual	Mon-Sun	2270003030	Sweepers/	D	15	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	2.88E-01	5.13E-01	2.79E-01	3.17E-06	1.87E-05	2.23E-05	3.06E-03	4.76E-08	8.72E-07	0.00E+00	2.86E-07
2019	Annual	Mon-Sun	2270003030	Sweepers/	D	25	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	2.88E-01	5.13E-01	4.58E-01	6.06E-06	2.07E-05	3.83E-05	5.03E-03	6.38E-08	1.43E-06	0.00E+00	5.47E-07
2019	Annual	Mon-Sun	2270003030	Sweepers/	D	50	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	5.61E+00	1.88E+01	2.72E+01	4.27E-04	2.71E-03	2.27E-03	2.96E-01	3.82E-06	1.05E-04	0.00E+00	3.85E-05
2019	Annual	Mon-Sun	2270003030	Sweepers/	D	120	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	9.28E+00	3.10E+01	1.06E+02	8.99E-04	7.67E-03	6.14E-03	1.16E+00	1.37E-05	3.70E-04	0.00E+00	8.11E-05
2019	Annual	Mon-Sun	2270003030	Sweepers/	D	175	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	4.27E+00	1.43E+01	9.04E+01	6.25E-04	5.72E-03	3.78E-03	9.92E-01	1.12E-05	2.02E-04	0.00E+00	5.63E-05
2019	Annual	Mon-Sun	2270003030	Sweepers/	D	250	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	6.84E-01	2.29E+00	1.68E+01	9.47E-05	3.65E-04	5.75E-04	1.85E-01	2.08E-06	1.97E-05	0.00E+00	8.54E-06
2019	Annual	Mon-Sun	2270003040	Other Gen	D	15	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	7.56E-01	2.95E+00	8.61E-01	9.78E-06	5.76E-05	6.88E-05	9.43E-03	1.47E-07	2.69E-06	0.00E+00	8.83E-07
2019	Annual	Mon-Sun	2270003040	Other Gen	D	25	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.01E+00	3.96E+00	2.76E+00	3.66E-05	1.25E-04	2.31E-04	3.03E-02	3.85E-07	8.64E-06	0.00E+00	3.30E-06
2019	Annual	Mon-Sun	2270003040	Other Gen	D	50	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.25E+00	4.90E+00	4.91E+00	1.12E-04	5.42E-04	4.35E-04	5.32E-02	6.88E-07	2.72E-05	0.00E+00	1.01E-05
2019	Annual	Mon-Sun	2270003040	Other Gen	D	120	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	5.02E+00	1.96E+01	5.55E+01	6.19E-04	4.14E-03	3.94E-03	6.08E-01	7.13E-06	2.77E-04	0.00E+00	5.58E-05
2019	Annual	Mon-Sun	2270003040	Other Gen	D	175	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	5.03E+00	1.97E+01	8.59E+01	7.31E-04	5.54E-03	4.68E-03	9.42E-01	1.06E-05	2.53E-04	0.00E+00	6.60E-05
2019	Annual	Mon-Sun	2270003040	Other Gen	D	250	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	5.01E+00	1.96E+01	1.20E+02	7.95E-04	2.75E-03	5.66E-03	1.33E+00	1.49E-05	1.85E-04	0.00E+00	7.17E-05
2019	Annual	Mon-Sun	2270003040	Other Gen	D	500	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	5.00E+00	1.95E+01	2.35E+02	1.51E-03	5.11E-03	9.83E-03	2.59E+00	2.54E-05	3.47E-04	0.00E+00	1.36E-04
2019	Annual	Mon-Sun	2270003040	Other Gen	D	750	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.25E+00	4.88E+00	9.66E+01	6.22E-04	2.10E-03	4.14E-03	1.07E+00	1.07E-05	1.44E-04	0.00E+00	5.61E-05
2019	Annual	Mon-Sun	2270003040	Other Gen	D	1000	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	7.61E-01	2.97E+00	7.52E+01	5.28E-04	1.77E-03	5.97E-03	8.30E-01	8.35E-06	1.53E-04	0.00E+00	4.76E-05
2019	Annual	Mon-Sun	2270003050	Other Mat	D	50	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	3.60E-02	1.30E-01	1.82E-01	4.11E-06	1.98E-05	1.60E-05	1.97E-03	2.55E-08	1.00E-06	0.00E+00	3.71E-07
2019	Annual	Mon-Sun	2270003050	Other Mat	D	120	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	2.16E-01	7.80E-01	2.16E+00	2.38E-05	1.60E-04	1.53E-04	2.36E-02	2.77E-07	1.08E-05	0.00E+00	2.15E-06
2019	Annual	Mon-Sun	2270003050	Other Mat	D	175	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	2.31E-01	8.36E-01	4.65E+00	3.91E-05	2.98E-04	2.53E-04	5.10E-02	5.74E-07	1.37E-05	0.00E+00	3.53E-06
2019	Annual	Mon-Sun	2270003050	Other Mat	D	250	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	5.50E-01	1.99E+00	1.30E+01	8.52E-05	2.97E-04	6.14E-04	1.44E-01	1.62E-06	2.00E-05	0.00E+00	7.69E-06
2019	Annual	Mon-Sun	2270003050	Other Mat	D	500	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.03E-01	3.72E-01	3.22E+00	2.04E-05	6.99E-05	1.35E-04	3.56E-02	3.49E-07	4.75E-06	0.00E+00	1.84E-06
2019	Annual	Mon-Sun	2270003050	Other Mat	D	9999	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	3.08E-02	1.11E-01	3.74E+00	2.78E-05	8.78E-05	2.96E-04	4.13E-02	4.05E-07	7.57E-06	0.00E+00	2.51E-06
2019	Annual	Mon-Sun	2270004030	Leaf Blowe	D	15	Lawn and G	U	N	NHH	P	Monterey	NCC	MBU	8.08E-02	2.66E-02	3.65E-03	4.14E-08	2.44E-07	2.91E-07	4.00E-05	6.22E-10	1.14E-08	0.00E+00	3.74E-09
2019	Annual	Mon-Sun	2270004030	Leaf Blowe	D	120	Lawn and G	U	N	NHH	P	Monterey	NCC	MBU	7.07E-02	2.33E-02	5.15E-02	3.20E-07	3.20E-06	3.27E-06	5.65E-04	6.63E-09	1.70E-07	0.00E+00	2.89E-08
2019	Annual	Mon-Sun	2270004030	Leaf Blowe	D	250	Lawn and G	U	N	NHH	P	Monterey	NCC	MBU	2.02E-02	6.64E-03	3.01E-02	9.60E-08	5.81E-07	1.28E-06	3.33E-04	3.75E-09	3.38E-08	0.00E+00	8.67E-09
2019	Annual	Mon-Sun	2270004055	Lawn & Ga	D	15	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	1.95E+02	2.91E+02	1.23E+02	1.40E-03	8.24E-03	9.84E-03	1.35E+00	2.10E-05	3.86E-04	0.00E+00	1.26E-04
2019	Annual	Mon-Sun	2270004055	Lawn & Ga	D	25	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	1.53E+02	2.27E+02	1.48E+02	1.96E-03	6.69E-03	1.24E-02	1.62E+00	2.06E-05	4.64E-04	0.00E+00	1.77E-04
2019	Annual	Mon-Sun	2270004065	Chippers/S	D	25	Lawn and G	U	P	NHH	P	Monterey	NCC	MBU	9.10E-02	1.16E-01	1.06E-01	1.41E-06	4.80E-06	8.88E-06	1.17E-03	1.48E-08	3.32E-07	0.00E+00	1.27E-07
2019	Annual	Mon-Sun	2270004065	Chippers/S	D	120	Lawn and G	U	P	NHH	P	Monterey	NCC	MBU	2.51E+00	3.19E+00	1.11E+01	9.47E-05	7.46E-04	7.57E-04	1.21E-01	1.42E-06	4.85E-05	0.00E+00	8.54E-06
2019	Annual	Mon-Sun	2270004065	Chippers/S	D	175	Lawn and G	U	P	NHH	P	Monterey	NCC	MBU	1.72E-01	2.19E-01	1.31E+00	8.22E-06	7.65E-05	6.98E-05	1.44E-02	1.62E-07	3.34E-06	0.00E+00	7.42E-07
2019	Annual	Mon-Sun	2270004065	Chippers/S	D	250	Lawn and G	U	N	NHH	P	Monterey	NCC	MBU	4.04E-02	5.15E-02	5.18E-01	2.47E-06	1.09E-05	2.40E-05	5.72E-03	6.44E-08	7.34E-07	0.00E+00	2.23E-07
2019	Annual	Mon-Sun	2270004065	Chippers/S	D	500	Lawn and G	U	N	NHH	P	Monterey	NCC	MBU	3.74E-01	4.76E-01	5.32E+00	2.41E-05	1.09E-04	2.20E-04	5.88E-02	5.77E-07	7.22E-06	0.00E+00	2.18E-06
2019	Annual	Mon-Sun	2270004065	Chippers/S	D	750	Lawn and G	U	N	NHH	P	Monterey	NCC	MBU	4.24E-01	5.41E-01	1.45E+01	6.66E-05	2.97E-04	6.16E-04	1.61E-01	1.62E-06	1.99E-05	0.00E+00	6.01E-06
2019	Annual	Mon-Sun	2270004065	Chippers/S	D	1000	Lawn and G	U	N	NHH	P	Monterey	NCC	MBU	8.08E-01	1.03E+00	3.94E+01	2.07E-04	8.61E-04	3.00E-03	4.35E-01	4.38E-06	7.02E-05	0.00E+00	1.86E-05
2019	Annual	Mon-Sun	2270004070	Commercia	D	15	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	4.91E+00	1.44E+01	6.33E+00	7.19E-05	4.23E-04	5.05E-04	6.93E-02	1.08E-06	1.97E-05	0.00E+00	6.48E-06
2019	Annual	Mon-Sun	2270004070	Commercia	D	25	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	9.23E+01	2.70E+02	1.78E+02	2.36E-03	8.05E-03	1.49E-02	1.95E+00	2.48E-05	5.57E-04	0.00E+00	2.13E-04
2019	Annual	Mon-Sun	2270004075	Other Lawi	D	15	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	7.07E-02	8.39E-02	4.68E-02	5.31E-07	3.13E-06	3.74E-06	5.12E-04	7.97E-09	1.46E-07	0.00E+00	4.80E-08
2019	Annual	Mon-Sun	2270004075	Other Lawi	D	25	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	1.01E-02	1.20E-02	8.89E-03	1.18E-07	4.02E-07	7.44E-07	9.76E-05	1.24E-09	2.78E-08	0.00E+00	1.06E-08
2019	Annual	Mon-Sun	2270005015	Agricultura	D	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.83E+02	5.60E+02	2.69E+02	3.43E-03	1.80E-02	2.15E-02	2.94E+00	4.58E-05	8.39E-04	0.00E+00	3.09E-04
2019	Annual	Mon-Sun	2270005015	Agricultura	D	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.73E+02	6.90E+02	6.34E+02	8.40E-03	2.87E-02	5.31E-02	6.96E+00	8.83E-05	1.98E-03	0.00E+00	7.58E-04
2019	Annual	Mon-Sun	2270005015	Agricultura	D	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.10E+03	1.44E+03	2.26E+03	4.05E-02	1.96E-01	1.89E-01	2.46E+01	3.18E-04	1.10E-02	0.00E+00	3.65E-03
2019	Annual	Mon-Sun	2270005015	Agricultura	D	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.27E+03	1.66E+03	5.52E+03	4.85E-02	3.74E-01	3.84E-01	6.05E+01	7.09E-04	2.45E-02	0.00E+00	4.38E-03
2019	Annual	Mon-Sun	2270005015	Agricultura	D	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	7.18E+02	9.36E+02	5.30E+03	3.41E-02	3.10E-01	2.87E-01	5.83E+01	6.56E-04	1.36E-02	0.00E+00	3.08E-03
2019	Annual	Mon-Sun	2270005015	Agricultura	D	250	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	4.64E+02	6.04E+02	4.87E+03	2.34E-02	1.02E-01	2.27E-01	5.38E+01	6.05E-04	6.83E-03	0.00E+00	2.11E-03
2019	Annual	Mon-Sun	2270005015	Agricultura	D	500	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	9.21E+01	1.20E+02	1.58E+03	7.23E-03	3.22E-02	6.60E-02	1.75E+01	1.72E-04	2.13E-03	0.00E+00	6.52E-04
2019	Annual	Mon-Sun	2270005020	Combines	D	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	2.69E+01	1.11E+01	4.78E+01	3.13E-04	3.00E-03	3.09E-03	5.24E-01	6.15E-06	1.62E-04	0.00E+00	2.83E-05
2019	Annual	Mon-Sun	2270005020	Combines	D	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.99E+01	1.64E+01	9.31E+01	4.28E-04	5.05E-03	4.66E-03	1.02E+00	1.15E-05	1.81E-04	0.00E+00	3.86E-05
2019	Annual	Mon-Sun	2270005020	Combines	D	250	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	4.27E+01	1.76E+01	1.39E+02	4.64E-04	2.70E-03	5.99E-03	1.54E+00	1.73E-05	1.57E-04	0.00E+00	4.19E-05
2019	Annual	Mon-Sun	2270005020	Combines	D	500	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	1.71E+00	7.02E-01	7.65E+00	2.38E-05	1.47E-04	2.99E-04	8.47E-02	8.31E-07	8.40E-06	0.00E+00	2.15E-06
2019	Annual	Mon-Sun	2270005025	Balers	D	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	5.09E-02	1.33E-02	2.20E-02	2.20E-07	1.40E-06	1.72E-06	2.41E-04	3.12E-09	7.58E-08	0.00E+00	1.99E-08
2019	Annual	Mon-Sun	2270005025	Balers	D	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.58E+01	9.34E+00	2.32E+01	1.43E-04	1.43E-03	1.48E-03	2.55E-01	2.99E-06	7.47E-05	0.00E+00	1.29E-05
2019	Annual	Mon-Sun	2270005030	Agricultura	D	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.68E+00	1.67E+00	2.67E+00	2.15E-05	1.76E-04	1.82E-04	2.93E-02	3.44E-07	1.09E-05	0.00E+00	1.94E-06
2019	Annual	Mon-Sun	2270005035	Sprayers	D	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	7.89E+00	2.38E+00	1.29E+00	1.98E-05	6.27E-05	1.15E-04	1.42E-02	1.80E-07	5.60E-06	0.00E+00	1.79E-06
2019	Annual	Mon-Sun	2270005035	Sprayers	D	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.78E+00	4.40E-01	4.53E-01	4.48E-06	2.88E-05	3.53E-05	4.96E-03	6.41E-08	1.55E-06	0.00E+00	4.04E-07
2019	Annual	Mon-Sun	2270005035	Sprayers	D	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.71E+01	4.21E+00	1.09E+01	6.71E-05	6.75E-04	6.97E-04	1.20E-01	1.41E-06	3.50E-05	0.00E+00	6.05E-06
2019	Annual	Mon-Sun	2270005035	Sprayers	D	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	7.18E+00	1.77E+00	7.62E+00	3.25E-05	4.08E-04	3.76E-04	8.38E-02	9.43E-07	1.40E-05	0.00E+00	2.93E-06
2019	Annual	Mon-Sun	2270005035	Sprayers	D	250	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	4.48E+00	1.11E+00	7.77E+00	2.37E-05	1.48E-04	3.29E-04	8.59E-02	9.67E-07	8.38E-06	0.00E+00	2.14E-06
2019	Annual	Mon-Sun	2270005035	Sprayers	D	500	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	7.64E-01	1.89E-01	1.45E+00	4.10E-06	2.74E-05	5.58E-05	1.60E-02	1.57E-07	1.52E-06	0.00E+00	3.70E-07
2019	Annual	Mon-Sun	2270005040	Tillers	D	15	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	1.78E-01	1.29E-01	4.02E-02	4.56E-07	2.69E-06	3.21E-06	4.40E-04	6.84E-09	1.25E-07	0.00E+00	4.12E-08
2019	Annual	Mon-Sun	2270005040	Tillers	D	250	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	2.55E-02	1.20E-02	1.30E-01	4.46E-07	2.53E-06	5.62E-06	1.44E-03	1.62E-08	1.49E-07	0.00E+00	4.03E-08
2019	Annual	Mon-Sun	2270005040	Tillers	D	500	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	7.64E-02	3.60E-02	6.96E-01	2.23E-06	1.34E-05	2.73E-05	7.70E-03	7.55E-08	7.76E-07	0.00E+00	2.01E-07
2019	Annual	Mon-Sun	2270005045	Swathers	D	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.94E+02	5.85E+01	1.43E+02	8.99E-04	8.89E-03	9.18E-03	1.57E+00	1.84E-05	4.68E-04	0.00E+00	8.11E-05
2019	Annual	Mon-Sun	2270005045	Swathers	D	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.73E+00	5.22E-01	2.45E+00	1.07E-05	1.32E-04	1.22E-04	2.70E-02	3.04E-07	4.60E-06	0.00E+00	9.69E-07
2019	Annual	Mon-Sun	2270005050	Hydro Pow	D	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.48E+00	3.30E+00	9.06E-01	1.15E-05	6.05E-05	7.23E-05	9.92E-03	1.54E-07	2.82E-06	0.00E+00	1.04E-06
2019	Annual

2019	Annual	Mon-Sun	2270008025	Air Conditi	D	175	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	2.42E-01	5.36E-01	3.54E+00	1.35E-05	2.07E-04	9.17E-05	3.89E-02	4.38E-07	3.12E-06	0.00E+00	1.22E-06
2019	Annual	Mon-Sun	2270008025	Air Conditi	D	250	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	1.91E-02	4.23E-02	3.97E-01	1.29E-06	7.95E-06	6.85E-06	4.39E-03	4.94E-08	1.82E-07	0.00E+00	1.16E-07
2019	Annual	Mon-Sun	2270008025	Air Conditi	D	500	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	1.27E-02	2.82E-02	5.29E-01	1.71E-06	1.03E-05	8.79E-06	5.85E-03	6.59E-08	2.40E-07	0.00E+00	1.55E-07
2019	Annual	Mon-Sun	2270008030	Air Start Ur	D	175	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	6.36E-03	5.81E-03	4.01E-02	2.10E-07	2.26E-06	1.96E-06	4.40E-04	4.32E-09	8.63E-08	0.00E+00	1.89E-08
2019	Annual	Mon-Sun	2270008030	Air Start Ur	D	250	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	1.91E-02	1.74E-02	1.71E-01	6.78E-07	3.43E-06	7.23E-06	1.89E-03	1.85E-08	2.10E-07	0.00E+00	6.12E-08
2019	Annual	Mon-Sun	2270008030	Air Start Ur	D	500	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	7.51E-01	6.86E-01	1.34E+01	5.04E-05	2.65E-04	5.13E-04	1.49E-01	1.46E-06	1.59E-05	0.00E+00	4.55E-06
2019	Annual	Mon-Sun	2270008030	Air Start Ur	D	750	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	1.08E-01	9.88E-02	2.90E+00	1.10E-05	5.72E-05	1.13E-04	3.21E-02	3.15E-07	3.47E-06	0.00E+00	9.97E-07
2019	Annual	Mon-Sun	2270008035	Baggage Tu	D	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	3.05E+00	1.16E+01	2.61E+01	4.87E-04	2.07E-03	2.78E-03	2.84E-01	3.34E-06	2.40E-04	0.00E+00	4.39E-05
2019	Annual	Mon-Sun	2270008040	Belt Loade	D	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.47E+00	3.93E+00	6.12E+00	9.84E-05	4.68E-04	5.82E-04	6.68E-02	7.84E-07	4.94E-05	0.00E+00	8.88E-06
2019	Annual	Mon-Sun	2270008045	Bobtail	D	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.08E-01	2.03E-01	7.21E-01	1.10E-05	5.37E-05	6.76E-05	7.87E-03	9.23E-08	5.65E-06	0.00E+00	9.94E-07
2019	Annual	Mon-Sun	2270008050	Cargo Load	D	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.79E+00	4.46E+00	1.29E+01	1.58E-04	9.45E-04	1.01E-03	1.41E-01	1.65E-06	7.75E-05	0.00E+00	1.42E-05
2019	Annual	Mon-Sun	2270008065	Forklift	D	175	Airport Grc	U	P	NHH	NP	Monterey	NCC	MBU	2.48E-01	5.06E-01	1.35E+00	9.62E-06	8.23E-05	7.05E-05	1.48E-02	1.66E-07	3.65E-06	0.00E+00	8.68E-07
2019	Annual	Mon-Sun	2270008070	Fuel Truck	D	250	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.34E-01	2.29E-01	6.13E-01	3.17E-06	1.31E-05	2.75E-05	6.77E-03	7.62E-08	8.72E-07	0.00E+00	2.86E-07
2019	Annual	Mon-Sun	2270008075	Ground Po	D	175	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	1.99E+00	5.29E+00	3.69E+01	2.66E-04	2.31E-03	1.79E-03	4.06E-01	4.56E-06	9.45E-05	0.00E+00	2.40E-05
2019	Annual	Mon-Sun	2270008085	Lav Truck	D	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	3.18E-02	1.14E-01	2.73E-01	2.26E-06	1.75E-05	1.46E-05	2.99E-03	3.37E-08	7.89E-07	0.00E+00	2.04E-07
2019	Annual	Mon-Sun	2270008090	Lift	D	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	3.31E-01	7.18E-01	2.36E+00	2.27E-05	1.68E-04	1.62E-04	2.59E-02	3.04E-07	1.10E-05	0.00E+00	2.05E-06
2019	Annual	Mon-Sun	2270008100	Other GSE	D	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	5.92E-01	1.50E+00	6.01E+00	6.85E-05	3.88E-04	4.79E-04	6.58E-02	8.51E-07	2.74E-05	0.00E+00	6.18E-06
2019	Annual	Mon-Sun	2270008101	Passenger	D	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	5.09E-02	9.78E-03	3.30E-02	1.81E-07	2.02E-06	1.99E-06	3.62E-04	4.25E-09	9.69E-08	0.00E+00	1.64E-08
2019	Annual	Mon-Sun	2270008102	Sweeper	D	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.46E-01	1.16E-01	1.73E-01	7.48E-07	1.09E-05	8.32E-06	1.90E-03	2.14E-08	3.56E-07	0.00E+00	6.75E-08
2019	Annual	Mon-Sun	2270008103	Generator	D	120	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	9.54E-02	4.27E-01	1.60E+00	1.76E-05	1.20E-04	1.12E-04	1.75E-02	1.97E-07	7.75E-06	0.00E+00	1.59E-06
2019	Annual	Mon-Sun	2270008103	Generator	D	175	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	5.22E-01	2.33E+00	1.65E+01	1.40E-04	1.07E-03	8.82E-04	1.80E-01	2.03E-06	4.77E-05	0.00E+00	1.27E-05
2019	Annual	Mon-Sun	2270008103	Generator	D	250	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	5.41E-01	2.42E+00	2.45E+01	1.67E-04	5.67E-04	1.14E-03	2.71E-01	3.05E-06	3.83E-05	0.00E+00	1.51E-05
2019	Annual	Mon-Sun	2270008103	Generator	D	500	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	5.73E-02	2.56E-01	4.11E+00	2.73E-05	9.04E-05	1.70E-04	4.54E-02	5.11E-07	6.16E-06	0.00E+00	2.46E-06
2019	Annual	Mon-Sun	2270008103	Generator	D	750	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	7.63E-02	3.41E-01	8.85E+00	5.89E-05	1.95E-04	3.75E-04	9.78E-02	1.10E-06	1.34E-05	0.00E+00	5.31E-06
2019	Annual	Mon-Sun	2270008105	Service Tru	D	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	2.10E-01	2.91E-01	5.76E-01	3.53E-06	3.38E-05	2.92E-05	6.33E-03	7.12E-08	1.40E-06	0.00E+00	3.18E-07
2019	Annual	Mon-Sun	2270008106	Catering Tr	D	250	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	5.09E-02	5.17E-02	3.65E-01	1.09E-06	7.00E-06	9.79E-06	4.04E-03	4.55E-08	2.83E-07	0.00E+00	9.84E-08
2019	Annual	Mon-Sun	2270008111	Hydrant Tr	D	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.02E-01	1.74E-01	1.22E+00	9.00E-06	7.34E-05	6.93E-05	1.34E-02	1.50E-07	3.56E-06	0.00E+00	8.12E-07
2019	Annual	Mon-Sun	2270008115	Compressc	D	120	Airport Grc	U	P	NHH	P	Monterey	NCC	MBU	3.18E-02	7.10E-02	1.85E-01	1.80E-06	1.32E-05	1.27E-05	2.03E-03	2.38E-08	8.66E-07	0.00E+00	1.62E-07
2019	Annual	Mon-Sun	2270008115	Compressc	D	250	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	6.36E-03	1.42E-02	7.50E-02	4.36E-07	1.65E-06	3.43E-06	8.28E-04	9.32E-09	1.12E-07	0.00E+00	3.93E-08
2019	Annual	Mon-Sun	2270008115	Compressc	D	500	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	2.54E-02	5.68E-02	6.18E-01	3.48E-06	1.30E-05	2.52E-05	6.83E-03	6.71E-08	8.89E-07	0.00E+00	3.14E-07
2019	Annual	Mon-Sun	2270008115	Compressc	D	750	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	8.27E-02	1.85E-01	2.97E+00	1.68E-05	6.26E-05	1.24E-04	3.28E-02	3.30E-07	4.31E-06	0.00E+00	1.51E-06
2019	Annual	Mon-Sun	2270009005	Transport I	D	15	Transport I	U	N	NHH	NP	Monterey	NCC	MBU	1.28E+02	3.65E+02	1.33E+02	1.52E-03	8.93E-03	1.07E-02	1.46E+00	1.85E-05	4.18E-04	0.00E+00	1.37E-04
2019	Annual	Mon-Sun	2270009005	Transport I	D	25	Transport I	U	N	NHH	NP	Monterey	NCC	MBU	4.07E+01	1.16E+02	7.19E+01	9.53E-04	3.25E-03	6.02E-03	7.90E-01	1.00E-05	2.26E-04	0.00E+00	8.59E-05
2019	Annual	Mon-Sun	2270009005	Transport I	D	50	Transport I	U	N	NHH	NP	Monterey	NCC	MBU	9.90E+02	3.98E+03	4.71E+03	3.90E-02	4.06E-01	3.18E-01	5.16E+01	6.66E-04	5.25E-03	0.00E+00	3.52E-03
2019	Annual	Mon-Sun	2270011005	A/C unit	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	2.88E-01	2.37E-01	8.22E-01	6.22E-06	5.34E-05	5.48E-05	9.02E-03	1.06E-07	3.22E-06	0.00E+00	5.62E-07
2019	Annual	Mon-Sun	2270011005	A/C unit	D	250	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	1.20E-01	9.91E-02	7.01E-01	2.86E-06	1.42E-05	3.16E-05	7.75E-03	8.72E-08	9.18E-07	0.00E+00	2.58E-07
2019	Annual	Mon-Sun	2270011005	A/C unit	D	500	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	4.76E-02	3.92E-02	4.20E-01	1.62E-06	8.36E-06	1.71E-05	4.64E-03	4.56E-08	5.29E-07	0.00E+00	1.46E-07
2019	Annual	Mon-Sun	2270011010	Aircraft Su	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	7.84E-02	6.46E-02	1.50E-01	1.14E-06	9.78E-06	1.00E-05	1.65E-03	1.94E-08	5.90E-07	0.00E+00	1.03E-07
2019	Annual	Mon-Sun	2270011010	Aircraft Su	D	175	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	1.12E-01	9.22E-02	4.41E-01	2.40E-06	2.48E-05	2.28E-05	4.85E-03	5.46E-08	1.00E-06	0.00E+00	2.16E-07
2019	Annual	Mon-Sun	2270011015	Cart	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	3.36E-02	2.77E-02	7.68E-02	5.81E-07	4.99E-06	5.12E-06	8.42E-04	9.88E-09	3.01E-07	0.00E+00	5.25E-08
2019	Annual	Mon-Sun	2270011015	Cart	D	175	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	8.40E-03	6.92E-03	3.62E-02	1.97E-07	2.04E-06	1.87E-06	3.98E-04	4.48E-09	8.20E-08	0.00E+00	1.77E-08
2019	Annual	Mon-Sun	2270011015	Cart	D	250	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	2.80E-02	2.31E-02	1.54E-01	6.31E-07	3.14E-06	6.95E-06	1.71E-03	1.92E-08	2.02E-07	0.00E+00	5.69E-08
2019	Annual	Mon-Sun	2270011020	Communic	D	50	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	1.12E-02	9.22E-03	1.27E-02	1.80E-07	9.69E-07	1.03E-06	1.39E-04	1.79E-09	5.34E-08	0.00E+00	1.63E-08
2019	Annual	Mon-Sun	2270011020	Communic	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	1.68E-02	1.38E-02	3.79E-02	2.87E-07	2.47E-06	2.53E-06	4.16E-04	4.88E-09	1.49E-07	0.00E+00	2.59E-08
2019	Annual	Mon-Sun	2270011025	Compressc	D	50	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	1.12E-02	9.22E-03	1.55E-02	2.21E-07	1.19E-06	1.26E-06	1.70E-04	2.20E-09	6.54E-08	0.00E+00	1.99E-08
2019	Annual	Mon-Sun	2270011025	Compressc	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	4.23E-01	3.48E-01	8.47E-01	6.41E-06	5.51E-05	5.64E-05	9.29E-03	1.09E-07	3.32E-06	0.00E+00	5.79E-07
2019	Annual	Mon-Sun	2270011025	Compressc	D	175	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	1.12E-02	9.22E-03	5.27E-02	2.86E-07	2.96E-06	2.72E-06	5.79E-04	6.51E-09	1.19E-07	0.00E+00	2.58E-08
2019	Annual	Mon-Sun	2270011025	Compressc	D	250	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	2.24E-02	1.84E-02	1.40E-01	5.71E-07	2.84E-06	6.30E-06	1.55E-03	1.74E-08	1.83E-07	0.00E+00	5.15E-08
2019	Annual	Mon-Sun	2270011025	Compressc	D	500	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	7.84E-02	6.46E-02	8.19E-01	3.15E-06	1.63E-05	3.33E-05	9.05E-03	8.88E-08	1.03E-06	0.00E+00	2.84E-07
2019	Annual	Mon-Sun	2270011030	Crane	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	4.48E-02	3.69E-02	1.32E-01	4.02E-07	8.18E-06	5.31E-06	1.46E-03	1.71E-08	1.47E-07	0.00E+00	3.63E-08
2019	Annual	Mon-Sun	2270011030	Crane	D	175	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	8.40E-03	6.92E-03	3.33E-02	8.46E-08	1.82E-06	8.39E-07	3.67E-04	4.12E-09	2.41E-08	0.00E+00	7.63E-09
2019	Annual	Mon-Sun	2270011030	Crane	D	250	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	5.60E-03	4.61E-03	3.35E-02	7.24E-08	6.27E-07	5.68E-07	3.71E-04	4.17E-09	1.37E-08	0.00E+00	6.53E-09
2019	Annual	Mon-Sun	2270011040	Deicer	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	1.12E-02	9.22E-03	3.48E-02	2.63E-07	2.26E-06	2.32E-06	3.81E-04	4.47E-09	1.36E-07	0.00E+00	2.37E-08
2019	Annual	Mon-Sun	2270011050	Generator	D	50	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	7.56E-02	6.23E-02	8.14E-02	1.16E-06	6.21E-06	6.62E-06	8.89E-04	1.15E-08	3.42E-07	0.00E+00	1.04E-07
2019	Annual	Mon-Sun	2270011050	Generator	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	1.88E+00	1.55E+00	4.41E+00	3.34E-05	2.87E-04	2.94E-04	4.83E-02	5.67E-07	1.73E-05	0.00E+00	3.01E-06
2019	Annual	Mon-Sun	2270011050	Generator	D	175	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	1.51E+00	1.25E+00	6.27E+00	3.41E-05	3.53E-04	3.24E-04	6.89E-02	7.75E-07	1.42E-05	0.00E+00	3.07E-06
2019	Annual	Mon-Sun	2270011050	Generator	D	250	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	4.00E-01	3.30E-01	2.50E+00	1.02E-05	5.08E-05	1.13E-04	2.76E-02	3.11E-07	3.27E-06	0.00E+00	9.21E-07
2019	Annual	Mon-Sun	2270011050	Generator	D	500	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	1.62E-01	1.34E-01	1.58E+00	6.09E-06	3.15E-05	6.43E-05	1.75E-02	1.72E-07	1.99E-06	0.00E+00	5.50E-07
2019	Annual	Mon-Sun	2270011050	Generator	D	750	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	5.60E-03	4.60E-03	8.37E-02	3.28E-07	1.67E-06	3.48E-06	9.25E-04	9.30E-09	1.06E-07	0.00E+00	2.96E-08
2019	Annual	Mon-Sun	2270011060	Hydraulic L	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	1.88E-01	1.54E-01	5.03E-01	3.81E-06	3.27E-05	3.35E-05	5.52E-03	6.47E-08	1.97E-06	0.00E+00	3.44E-07
2019	Annual	Mon-Sun	2270011065	Lift (Militar	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	5.60E-03	4.61E-03	1.50E-02	1.14E-07	9.76E-07	1.00E-06	1.65E-04	1.93E-09	5.89E-08	0.00E+00	1.03E-08
2019	Annual	Mon-Sun	2270011070	Light	D	50	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	1.40E-02	1.15E-02	1.98E-02	2.82E-07	1.51E-06	1.61E-06	2.17E-04	2.80E-09	8.34E-08	0.00E+00	2.54E-08
2019	Annual	Mon-Sun	2270011075	Pressure W	D	175	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	8.40E-03	6.92E-03	3.59E-02	1.95E-07	2.02E-06	1.86E-06	3.95E-04	4.45E-09	8.15E-08	0.00E+00	1.76E-08
2019	Annual	Mon-Sun	2270011080	Pump (Mili	D	50	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	1.62E-01	1.34E-01	1.79E-01	2.55E-06	1.37E-05	1.46E-05	1.96E-03	2.53E-08	7.55E-07	0.00E+00	2.30E-07
2019	Annual	Mon-Sun	2270011080	Pump (Mili	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	1.26E-01	1.04E-01	3.55E-01	2.69E-06	2.31E-05	2.37E-05	3.90E-03	4.57E-08	1.39E-06	0.00E+00	2.43E-07
2019	Annual	Mon-Sun	2270011085	Start Cart	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	2.80E-03	2.31E-03	7.90E-03	5.98E-08	5.14E-07	5.26E-07	8.67E-05	1.02E-09	3.10E-08	0.00E+00	5.40E-09
2019	Annual	Mon-Sun	2270011085	Start Cart	D	500	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	2.80E-03	2.31E-03	2.22E-02	8.54E-08	4.42E-07	9.01E-07	2.45E-04	2.41E-09	2.79E-08	0.00E+00	7.71E-09
2019	Annual	Mon-Sun	2270011090	Test Stand	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	9.24E-02	7.61E-02	2.40E-01	1.82E-06	1.56E-05	1.60E-05	2.63E-03	3.09E-08	9.41E-07	0.00E+00	1.64E-07
2019	Annual	Mon-Sun	2270011090	Test Stand	D	175	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	5.60E-03	4.61E-03	2.24E-02	1.22E-07	1.26E-06	1.16E-06	2.46E-04	2.77E-09	5.07E-08	0.00E+00	1.10E-08
2019	Annual	Mon-Sun	2270011090	Test Stand	D	250	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	8.68E-02	7.15E-02	4.79E-01	1.96E-06	9.72E-06	2.16E-05	5.29E-03	5.95E-08	6.27E-07	0.00E+00	1.76E-07
2019	Annual	Mon-Sun	2270011090	Test Stand	D	500	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	3.36E-02	2.77E-02	3.23E-01	1.24E-06	6.43E-06	1.31E-05	3.57E-03	3.50E-08	4.06E-07	0.00E+00	1.12E-07
2019	Annual	Mon-Sun	2270011100	Welder	D	50	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	5.88E-02	4.84E-02	5.83E-02	8.29E-07	4.45E-06	4.74E-06	6.37E-04	8.23E-09	2.45E-07	0.00E+00	7.48E-08
2019	Annual	Mon-Sun	2270011100	Welder	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	1.62E-01	1.34E-01	2.84E-01	2.15E-06	1.85E-05	1.89E-05	3.12E-03	3.66E-08	1.11E-06	0.00E+00	1.94E-07
2019	Annual	Mon-Sun	2270011105	Other tacti	D	50	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	2.80E-03	2.31E-03	3.97E-03	5.64E-08	3.03E-07	3.22E-07	4.33E-05	5.60E-10	1.67E-08	0.00E+00	5.09E-09
2019	Annual	Mon-Sun	2270011105	Other tacti	D	120	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	4.48E-02	3.69E-02	9.98E-02	7.56E-07	6.49E-06	6.65E-06	1.10E-03	1.28E-08	3.92E-07	0.00E+00	6.82E-08
2019	Annual	Mon-Sun	2270011105	Other tacti	D	175	Military Ta	U	P	NHH	P	Monterey	NCC	MBU	4.48E-02	3.69E-02	1.87E-01	1.01E-06	1.05E-05	9.64E-06	2.05E-03	2.31E-08	4.23E-07	0.00E+00	9.15E-08
2019	Annual	Mon-Sun	2270011105	Other tacti	D	250	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	1.68E-02	1.38E-02	1.03E-01	4.19E-07	2.08E-06	4.62E-06	1.13E-03	1.28E-08	1.34E-07	0.00E+00	3.78E-08
2019	Annual	Mon-Sun	2270011105	Other tacti	D	500	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	5.60E-03	4.61E-03	4.23E-02	1.63E-07	8.43E-07	1.72E-06	4.68E-04	4.59E-09	5.33E-08	0.00E+00	1.47E-08
2019	Annual	Mon-Sun	2270011105	Other tacti	D	750	Military Ta	U	N	NHH	P	Monterey	NCC	MBU	2.80E-03	2.31E-03	4.91E-02	1.92E-07	9.77E-07	2.04E-06	5.43E-04	5.45E-09	6.24E-08	0.00E+00	1.73E-08
2019	Annual	Mon-Sun	2270014005	Generator	D	50	Entertainm	U	P	NHH	P	Monterey	NCC	MBU	4.95E-02	4.58E-02	9.14E-02	1.37E-06	7.19E-06	7.48E-06	9.98E-04	1.29E-08	3.98E-07	0.00E+00	1.24E-07
2019	Annual	Mon-Sun	2270014005	Generator	D	120	Entertainm	U	P	NHH	P	Monterey	NCC	MBU	1.21E+00	1.12E+00	4.55E+00	3.57E-05	2.99E-04	3.06E-04	4.99E-02	5.86E-07	1.84E-05	0.00E+00	3.22E-06
2019	Annual	Mon-Sun	2270014005	Generator	D	175	Entertainm	U	N	NHH	P	Monterey	NCC	MBU	1.00E+00	9.27E-01	6.30E+00	3.56E-05	3.57E-04	3.28E-04	6.92E-02	7.79E-07	1.47E-05	0.00E+00	3.21E-06
2019	Annual	Mon-Sun	2270014005	Generator	D	250	Entertainm	U	N	NHH	P	Monterey	NCC	MBU	1.55E+00	1.43E+00	1.28E+01	5.45E-05	2.62E-04	5.81E-04	1.41E-01	1.59E-06	1.72E-05	0.00E+00	4.92E-06
2019	Annual	Mon-Sun	2270014005	Generator	D	500	Entertainm	U	N	NHH	P	Monterey	NCC	MBU	2.40E+00	2.22E+00	2.78E+01	1.12E-04	5.57E-04	1.14E-03	3.07E-01	3.01E-06	3.58E-05	0.00E+00	1.01E-05
2019	Annual	Mon-Sun	2270014005	Generator	D	750	Entertainm	U	N	NHH	P	Monterey	NCC	MBU	4.21E-01	3.89E-01	9.55E+00	3.90E-05	1.92E-04	4.00E-04	1.06E-01	1.06E-06	1.24E-05	0.00E+00	3.52E-06
2019	Annual	Mon-Sun	2270014005	Generator	D	9999	Entertainm	U	N	NHH	P	Monterey	NCC	MBU	6.19E-02	5.72E-02	2.50E+00	1.28E-05	5.38E-05	1.88E-04	2.76E-02	2.78E-07	4.31E-06	0.00E+00	1.16E-06
2019	Annual	Mon-Sun	2270014010	Compressc	D	120	Entertainm	U	P	NHH	P	Monterey	NCC	MBU	1.24E-02	2.76E-02	4.40E-02	4.57E-07	3.16E-06	3.17E-06	4.82E-04	5.65E-09	2.23E-07	0.00E+00	4.13E-08
2019	Annual	Mon-Sun	2270015005	Compressc	D	120	Railyard Op	U	P	NHH	P	Monterey	NCC	MBU	2.48E-02	5.52E-02	8.19E-02	8.52E-07	5.88E-06	5.90E-06	8.97E-04	1.05E-08	4.16E-07	0.00E+00	7.68E-08
2019	Annual	Mon-Sun	2270015010	Crane (Rail	D	120	Railyard Op	U	P	NHH	P	Monterey	NCC	MBU	1.24E-02	2.76E-02	6.79E-02	7.06E-07	4.88E-06	4.90E-06	7.44E-04	8.72E-09	3.45E-07	0.00E+00	6.37E-08
2019	Annual	Mon-Sun	2270015010	Crane (Rail	D	175	Railyard Op	U	P	NHH	P	Monterey	NCC	MBU	3.71E-02	3.43E-02	1.07E-01	6.04E-07	6.07E-06	5.57E-06	1.18E-03	1.32E-08	2.50E-07	0.00E+00	5.45E-08
2019	Annual	Mon-Sun	2270015015	Materials H	D	120	Railyard Op	U	P	NHH	P	Monterey	NCC	MBU	1.24E-02	2.76E-02	7.46E-02	7.75E-07	5.35E-06	5.38E-06	8.16E-04	9.19E-09	3.79E-07	0.00E+00	7.00E-08
2019	Annual	Mon-Sun	2270015020	Generator	D	175	Railyard Op	U	P	NHH	P	Monterey	NCC	MBU	1.24E-02	1.14E-02	7.24E-02	4.09E-07	4.11E-06	3.78E-06	7.96E-04	8.96E-09	1.69E-07	0.00E+00	3.69E-08
2019	Annual	Mon-Sun	2270015020	Generator	D	9999	Railyard Op	U	N	NHH	P	Monterey	NCC	MBU	1.24E-02	1.14E-02	4.55E-01	2.33E-06	9.80E-06	3.43E-05	5.03E-03	5.05E-08	7.85E-07	0.00E+00	2.11E-07
2019	Annual	Mon-Sun	2282005010	Vessels w/	G2	2	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	1.19E+02	1.56E+01	8.91E-01	6.62E-04	8.51E-04	3.29E-06	4.74E-03	1.35E-07	7.84E-05	2.94E-06	4.11E-05
2019	Annual	Mon-Sun	2282005010	Vessels w/	G2	15	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	6.60E+03	8.66E+02	1.45E+02	9.76E-02	1.51E-01	4.47E-03	7.87E-01	2.24E-05	1.30E-02	9.31E-04	6.07E-03
2019	Annual	Mon-Sun	2282005010	Vessels w/	G2	25	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	1.79E+03	2.35E+02	1.17E+02	5.89E-02	1.21E-01	4.97E-03	7.13E-01

2030 Offroad 2007

CY	Season	AvgDays	Code	Equipment	Fuel	MaxHP	Class	C/R	Pre	Hand	Port	County	Air Basin	Air Dist.	Population	Activity	Consumption	ROG Exhaust	CO Exhaust	NOX Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust
2030	Annual	Mon-Sun	2.26E+09	Off-Road M	G2	15	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	1.82E+02	6.73E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.26E+09	Off-Road M	G2	25	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	1.56E+02	5.79E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.26E+09	Off-Road M	G2	50	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	1.27E+03	4.71E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.26E+09	Off-Road M	G2	120	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	6.09E+02	2.25E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.26E+09	Snowmobil	G2	25	Recreationa	U	N	NHH	P	Monterey	NCC	MBU	3.33E+00	5.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.26E+09	Snowmobil	G2	50	Recreationa	U	N	NHH	P	Monterey	NCC	MBU	1.57E+01	2.48E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.26E+09	Snowmobil	G2	120	Recreationa	U	N	NHH	P	Monterey	NCC	MBU	2.86E+01	4.50E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.26E+09	All Terrain	G2	15	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	1.51E+02	5.59E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.26E+09	All Terrain	G2	25	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	9.83E+01	3.64E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.26E+09	All Terrain	G2	50	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	1.29E+02	4.79E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.27E+09	Off-Road M	G4	15	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	3.54E+02	1.31E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.27E+09	Off-Road M	G4	25	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	5.72E+02	2.12E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.27E+09	Off-Road M	G4	50	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	5.96E+02	2.21E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.27E+09	All Terrain	G4	15	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	1.23E+02	4.56E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.27E+09	All Terrain	G4	25	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	1.71E+03	6.35E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.27E+09	All Terrain	G4	50	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	7.74E+01	2.87E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	Annual	Mon-Sun	2.26E+09	Off-Road M	G2	15	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	4.54E+02	1.68E+03	6.37E+01	6.41E-02	1.00E-01	1.95E-05	2.13E-01	1.72E-04	7.78E-04	7.19E-05	3.98E-03
2030	Annual	Mon-Sun	2.26E+09	Off-Road M	G2	25	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	3.90E+02	1.45E+03	5.48E+01	5.52E-02	8.62E-02	1.68E-05	1.83E-01	2.77E-04	6.69E-04	6.19E-05	3.43E-03
2030	Annual	Mon-Sun	2.26E+09	Off-Road M	G2	50	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	3.18E+03	1.18E+04	4.46E+02	4.49E-01	7.02E-01	1.37E-04	1.49E+00	3.57E-03	5.45E-03	5.04E-04	2.79E-02
2030	Annual	Mon-Sun	2.26E+09	Off-Road M	G2	120	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	1.52E+03	5.63E+03	2.13E+02	2.15E-01	3.36E-01	6.55E-05	7.13E-01	2.52E-03	2.61E-03	2.41E-04	1.34E-02
2030	Annual	Mon-Sun	2.26E+09	Snowmobil	G2	25	Recreationa	U	N	NHH	P	Monterey	NCC	MBU	9.58E+00	1.51E+00	1.08E+00	5.76E-04	2.14E-03	5.82E-05	4.86E-03	8.46E-08	1.87E-05	4.85E-06	3.58E-05
2030	Annual	Mon-Sun	2.26E+09	Snowmobil	G2	50	Recreationa	U	N	NHH	P	Monterey	NCC	MBU	4.51E+01	7.11E+00	9.66E+00	5.16E-03	1.91E-02	5.22E-04	4.35E-02	7.58E-07	1.68E-04	3.22E-05	3.21E-04
2030	Annual	Mon-Sun	2.26E+09	Snowmobil	G2	120	Recreationa	U	N	NHH	P	Monterey	NCC	MBU	8.21E+01	1.29E+01	3.00E+01	1.61E-02	5.95E-02	1.62E-03	1.35E-01	2.36E-06	5.22E-04	7.80E-05	9.98E-04
2030	Annual	Mon-Sun	2.26E+09	All Terrain	G2	15	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	4.98E+02	1.84E+03	6.98E+01	7.03E-02	1.10E-01	2.14E-05	2.33E-01	2.33E-04	8.53E-04	7.88E-05	4.37E-03
2030	Annual	Mon-Sun	2.26E+09	All Terrain	G2	25	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	3.24E+02	1.20E+03	4.54E+01	4.58E-02	7.15E-02	1.39E-05	1.52E-01	2.07E-04	5.55E-04	5.13E-05	2.84E-03
2030	Annual	Mon-Sun	2.26E+09	All Terrain	G2	50	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	4.26E+02	1.58E+03	5.98E+01	6.02E-02	9.41E-02	1.84E-05	2.00E-01	3.58E-04	7.31E-04	6.75E-05	3.74E-03
2030	Annual	Mon-Sun	2.26E+09	Golf Carts	G2	15	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	1.04E+03	3.15E+03	1.19E+03	5.35E-02	3.23E+00	4.02E-02	6.18E+00	2.54E-04	2.88E-03	5.64E-03	3.32E-03
2030	Annual	Mon-Sun	2.26E+09	Specialty V	G2	15	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	2.38E+03	4.32E+02	1.59E+02	5.73E-03	4.34E-01	4.37E-03	8.31E-01	3.42E-05	3.13E-04	6.83E-04	3.56E-04
2030	Annual	Mon-Sun	2.26E+09	Tampers/R	G2	15	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	2.54E+01	1.27E+01	2.55E+00	1.61E-04	6.89E-03	1.24E-04	1.32E-02	5.43E-07	1.10E-04	1.97E-05	9.98E-06
2030	Annual	Mon-Sun	2.26E+09	Plate Comp	G2	15	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	2.17E+00	1.23E+00	2.48E-01	1.56E-05	6.69E-04	1.20E-05	1.28E-03	5.27E-08	1.07E-05	1.91E-06	9.68E-07
2030	Annual	Mon-Sun	2.26E+09	Other Gene	G2	15	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	4.94E-01	5.08E-01	2.00E-01	9.00E-06	5.44E-04	6.76E-06	1.04E-03	4.28E-08	4.84E-07	9.30E-07	5.59E-07
2030	Annual	Mon-Sun	2.26E+09	Lawn Mow	G2	15	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	4.38E+02	2.74E+02	3.10E+01	3.51E-03	6.30E-02	9.32E-04	1.87E-01	7.69E-06	5.89E-04	2.42E-04	2.18E-04
2030	Annual	Mon-Sun	2.26E+09	Lawn Mow	G2	15	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	3.29E+03	1.40E+02	1.70E+01	1.41E-03	4.02E-02	3.77E-04	9.51E-02	3.92E-06	2.46E-04	1.08E-04	8.76E-05
2030	Annual	Mon-Sun	2.26E+09	Chainsaws	G2	2	Lawn and G	C	N	HH	NP	Monterey	NCC	MBU	7.84E+02	6.21E+02	3.70E+01	3.10E-02	5.60E-02	4.87E-04	1.51E-01	6.24E-06	8.82E-05	2.51E-04	1.93E-03
2030	Annual	Mon-Sun	2.26E+09	Chainsaws	G2	2	Lawn and G	R	N	HH	NP	Monterey	NCC	MBU	8.82E+03	1.18E+02	5.42E+00	1.74E-03	1.07E-02	9.32E-05	2.89E-02	1.19E-06	1.69E-05	4.80E-05	1.08E-04
2030	Annual	Mon-Sun	2.26E+09	Chainsaws	G2	15	Lawn and G	C	N	HH	NP	Monterey	NCC	MBU	5.52E+02	4.38E+02	6.31E+01	5.27E-02	9.54E-02	8.29E-04	2.58E-01	1.06E-05	1.50E-04	2.83E-04	3.28E-03
2030	Annual	Mon-Sun	2.26E+09	Chainsaws	G2	15	Lawn and G	R	N	HH	NP	Monterey	NCC	MBU	6.21E+03	8.34E+01	9.22E+00	2.96E-03	1.82E-02	1.59E-04	4.91E-02	2.02E-06	2.87E-05	5.41E-05	1.84E-04
2030	Annual	Mon-Sun	2.26E+09	Chainsaws	G2	15	Lawn and G	C	P	HH	NP	Monterey	NCC	MBU	6.87E+02	5.45E+02	7.85E+01	6.57E-02	1.19E-01	1.03E-03	3.21E-01	1.32E-05	1.87E-04	3.52E-04	4.08E-03
2030	Annual	Mon-Sun	2.26E+09	Chainsaws	G2	15	Lawn and G	R	P	HH	NP	Monterey	NCC	MBU	7.73E+03	1.04E+02	1.15E+01	3.75E-03	2.28E-02	1.96E-04	6.12E-02	2.52E-06	3.56E-05	6.71E-05	2.33E-04
2030	Annual	Mon-Sun	2.26E+09	Trimmers/E	G2	2	Lawn and G	C	N	HH	NP	Monterey	NCC	MBU	2.56E+03	8.50E+02	3.77E+01	2.03E-02	6.70E-02	5.82E-04	1.81E-01	7.46E-06	1.05E-04	3.20E-04	1.26E-03
2030	Annual	Mon-Sun	2.26E+09	Trimmers/E	G2	2	Lawn and G	R	N	HH	NP	Monterey	NCC	MBU	2.85E+04	1.68E+03	7.12E+01	3.20E-02	1.32E-01	1.15E-03	3.57E-01	1.47E-05	2.08E-04	6.31E-04	1.99E-03
2030	Annual	Mon-Sun	2.26E+09	Leaf Blowe	G2	2	Lawn and G	C	N	HH	P	Monterey	NCC	MBU	3.82E+03	2.05E+03	1.09E+02	7.56E-02	1.80E-01	1.56E-03	4.86E-01	2.00E-05	2.83E-04	8.17E-04	4.70E-03
2030	Annual	Mon-Sun	2.26E+09	Leaf Blowe	G2	2	Lawn and G	R	N	HH	P	Monterey	NCC	MBU	9.84E+03	1.29E+02	5.74E+00	1.83E-03	1.13E-02	9.89E-05	3.06E-02	1.26E-06	1.79E-05	5.16E-05	1.14E-04
2030	Annual	Mon-Sun	2.26E+09	Shredders	G2	15	Lawn and G	C	P	NHH	NP	Monterey	NCC	MBU	1.93E+01	7.17E+00	3.15E+00	1.77E-04	8.52E-03	1.37E-04	1.63E-02	6.71E-07	1.37E-04	1.59E-05	1.10E-05
2030	Annual	Mon-Sun	2.26E+09	Shredders	G2	15	Lawn and G	R	P	NHH	NP	Monterey	NCC	MBU	6.87E+02	1.69E+00	7.41E-01	3.58E-05	2.02E-03	2.76E-05	3.85E-03	1.58E-07	3.23E-05	3.46E-06	2.22E-06
2030	Annual	Mon-Sun	2.26E+09	Commercia	G2	15	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	1.02E+01	2.24E+01	9.18E+00	4.13E-04	2.50E-02	3.11E-04	4.77E-02	1.97E-06	2.22E-05	4.19E-05	2.57E-05
2030	Annual	Mon-Sun	2.26E+09	Commercia	G2	25	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	5.05E+00	1.11E+01	9.82E+00	4.28E-04	2.76E-02	3.28E-04	4.97E-02	2.05E-06	2.32E-05	3.10E-05	2.66E-05
2030	Annual	Mon-Sun	2.26E+09	Other Lawr	G2	2	Lawn and G	C	N	HH	NP	Monterey	NCC	MBU	4.32E+00	8.12E-01	4.53E-02	2.23E-05	8.25E-05	7.16E-07	2.23E-04	9.18E-09	1.30E-07	3.50E-07	1.39E-06
2030	Annual	Mon-Sun	2.26E+09	Other Lawr	G2	2	Lawn and G	R	N	HH	NP	Monterey	NCC	MBU	1.32E+02	1.56E+00	7.98E-02	2.44E-05	1.59E-04	1.38E-06	4.28E-04	1.76E-08	2.50E-07	6.74E-07	1.52E-06
2030	Annual	Mon-Sun	2.26E+09	Other Lawr	G2	15	Lawn and G	C	N	HH	NP	Monterey	NCC	MBU	1.88E+00	3.53E-01	9.86E-02	4.85E-05	1.79E-04	1.56E-06	4.85E-04	2.00E-08	2.82E-07	3.59E-07	3.02E-06
2030	Annual	Mon-Sun	2.26E+09	Other Lawr	G2	15	Lawn and G	R	N	HH	NP	Monterey	NCC	MBU	5.77E+01	6.79E-01	1.74E-01	5.31E-05	3.45E-04	3.01E-06	9.33E-04	3.84E-08	5.45E-07	6.92E-07	3.30E-06
2030	Annual	Mon-Sun	2.26E+09	Generator S	G2	2	Light Comn	C	N	NHH	P	Monterey	NCC	MBU	3.26E+01	1.20E+01	6.16E-01	8.05E-05	1.13E-03	2.16E-05	3.86E-03	1.59E-07	1.33E-05	7.55E-06	5.00E-06
2030	Annual	Mon-Sun	2.26E+09	Generator S	G2	2	Light Comn	R	N	NHH	P	Monterey	NCC	MBU	2.56E+01	6.33E+00	3.28E-01	4.21E-05	6.16E-04	1.14E-05	2.04E-03	8.39E-08	6.92E-06	3.97E-06	2.61E-06
2030	Annual	Mon-Sun	2.26E+09	Generator S	G2	15	Light Comn	C	N	NHH	P	Monterey	NCC	MBU	3.29E-01	1.21E-01	6.73E-02	2.97E-06	1.83E-04	2.23E-06	3.50E-04	1.44E-08	1.60E-07	2.63E-07	1.84E-07
2030	Annual	Mon-Sun	2.26E+09	Generator S	G2	15	Light Comn	R	N	NHH	P	Monterey	NCC	MBU	2.50E-01	6.19E-02	3.45E-02	1.53E-06	9.39E-05	1.15E-06	1.79E-04	7.39E-09	8.15E-08	1.35E-07	9.48E-08
2030	Annual	Mon-Sun	2.26E+09	Pumps	G2	2	Light Comn	C	N	NHH	P	Monterey	NCC	MBU	1.29E+02	9.14E+01	4.73E+00	6.36E-04	8.49E-03	1.70E-04	2.99E-02	1.23E-06	1.05E-04	5.87E-05	3.95E-05
2030	Annual	Mon-Sun	2.26E+09	Pumps	G2	2	Light Comn	R	N	NHH	P	Monterey	NCC	MBU	1.02E+02	4.83E+01	2.51E+00	3.32E-04	4.56E-03	8.90E-05	1.58E-02	6.50E-07	5.49E-05	3.08E-05	2.07E-05
2030	Annual	Mon-Sun	2.26E+09	Pumps	G2	15	Light Comn	C	P	NHH	P	Monterey	NCC	MBU	3.49E+01	2.47E+01	1.25E+01	8.02E-04	3.37E-02	6.20E-04	6.44E-02	2.65E-06	5.40E-04	6.33E-05	4.98E-05
2030	Annual	Mon-Sun	2.26E+09	Pumps	G2	15	Light Comn	R	P	NHH	P	Monterey	NCC	MBU	2.74E+01	1.30E+01	6.59E+00	4.21E-04	1.78E-02	3.25E-04	3.40E-02	1.40E-06	2.85E-04	3.33E-05	2.62E-05
2030	Annual	Mon-Sun	2.26E+09	Pumps	G2	25	Light Comn	C	P	NHH	P	Monterey	NCC	MBU	4.22E-01	2.98E-01	3.30E-01	2.17E-05	9.20E-04	1.47E-05	1.66E-03	6.83E-08	1.39E-05	1.10E-06	1.35E-06
2030	Annual	Mon-Sun	2.26E+09	Pumps	G2	25	Light Comn	R	P	NHH	P	Monterey	NCC	MBU	3.29E-01	1.56E-01	1.73E-01	1.13E-05	4.81E-04	7.63E-06	8.67E-04	3.57E-08	7.26E-06	5.72E-07	7.02E-07
2030	Annual	Mon-Sun	2.27E+09	Off-Road M	G4	15	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	8.85E+02	3.28E+03	6.30E+01	4.76E-03	1.11E-01	2.05E-03	4.15E-01	3.36E-04	2.17E-04	1.12E-03	2.47E-04
2030	Annual	Mon-Sun	2.27E+09	Off-Road M	G4	25	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	1.43E+03	5.29E+03	1.02E+02	7.69E-03	1.80E-01	3.31E-03	6.69E-01	1.01E-03	3.50E-04	1.80E-03	3.99E-04
2030	Annual	Mon-Sun	2.27E+09	Off-Road M	G4	50	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	1.49E+03	5.51E+03	1.06E+02	8.01E-03	1.87E-01	3.45E-03	6.97E-01	1.67E-03	3.64E-04	1.88E-03	4.15E-04
2030	Annual	Mon-Sun	2.27E+09	All Terrain	G4	15	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	4.06E+02	1.50E+03	2.92E+01	2.30E-03	5.24E-02	1.23E-03	1.90E-01	1.90E-04	9.94E-05	5.91E-04	1.19E-04
2030	Annual	Mon-Sun	2.27E+09	All Terrain	G4	25	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	5.65E+03	2.09E+04	4.06E+02	3.19E-02	7.29E-01	1.71E-02	2.65E+00	3.61E-03	1.38E-03	8.22E-03	1.66E-03
2030	Annual	Mon-Sun	2.27E+09	All Terrain	G4	50	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	2.55E+02	9.44E+02	1.83E+01	1.44E-03	3.29E-02	7.72E-04	1.20E-01	2.14E-04	6.24E-05	3.71E-04	7.48E-05
2030	Annual	Mon-Sun	2.27E+09	Minibikes	G4	5	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	1.52E+02	5.76E+01	1.46E+01	9.47E-03	6.20E-02	2.20E-04	7.30E-03	2.34E-06	2.33E-04	5.17E-05	4.96E-04
2030	Annual	Mon-Sun	2.27E+09	Golf Carts	G4	15	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	8.16E+02	2.47E+03	1.04E+03	6.05E-02	3.18E+00	4.14E-02	4.83E+00	1.38E-04	2.70E-03	4.86E-03	3.15E-03
2030	Annual	Mon-Sun	2.27E+09	Specialty V	G4	5	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	7.35E+01	1.34E+01	3.70E+00	2.89E-04	1.04E-02	6.87E-05	1.84E-02	6.34E-07	4.36E-05	1.40E-05	1.51E-05
2030	Annual	Mon-Sun	2.27E+09	Specialty V	G4	15	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	9.97E+02	1.81E+02	7.43E+01	2.86E-03	2.28E-01	2.01E-03	3.49E-01	9.94E-06	1.31E-04	2.87E-04	1.50E-04
2030	Annual	Mon-Sun	2.27E+09	Specialty V	G4	25	Recreationa	U	N	NHH	NP	Monterey	NCC	MBU	5.48E+02	9.97E+01	1.14E+02	4.37E-03	3.60E-01	2.87E-03	5.20E-01	1.32E-05	1.96E-04	2.62E-04	2.29E-04
2030	Annual	Mon-Sun	2.27E+09	Asphalt Pa	G4	15	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	5.53E-01	6.00E-01	3.66E-01	2.84E-05	1.10E-03	2.02E-05	1.69E-03	4.81E-08	1.42E-05	1.72E-06	1.49E-06
2030	Annual	Mon-Sun	2.27E+09	Asphalt Pa	G4	25	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	9.46E-01	1.03E+00	1.58E+00	1.25E-04	4.90E-03	7.81E-05	7.06E-03	1.79E-07	5.92E-05	4.54E-06	6.56E-06
2030	Annual	Mon-Sun	2.27E+09	Asphalt Pa	G4	50	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	4.50E-01	4.84E-01	1.15E+00	1.65E-05	1.42E-03	2.02E-05	8.82E-03	1.07E-07	6.76E-07	1.54E-06	8.65E-07
2030	Annual	Mon-Sun	2.27E+09	Asphalt Pa	G4	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	2.47E-01	2.66E-01	1.02E+00	6.93E-06	4.05E-04	1.55E-05	9.13E-03	8.82E-08	7.08E-07	1.01E-06	3.63E-07
2030	Annual	Mon-Sun	2.27E+09	Tampers/R	G4	15	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.17E+00	5.84E-01	2.96E-01	2.27E-05	8.94E-04	1.62E-05	1.37E-03	3.90E-08	1.15E-05	1.50E-06	1.19E-06
2030	Annual	Mon-Sun	2.27E+09	Plate Comp	G4	5	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	4.29E+01	2.12E+01	4.01E+00	5.86E-04	9.14E-03	2.53E-04	2.21E-02	7.62E-07	7.20E-06	3.49E-05	3.07E-05
2030	Annual	Mon-Sun	2.27E+09	Plate Comp	G4	15	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	4.56E+01	2.57E+01	1.16E+01	8.92E-04	3.50E-02	6.34E-04	5.36E-02	1.53E-06	4.49E-04	6.23E-05	4.67E-05
2030	Annual	Mon-Sun	2.27E+09	Rollers	G4	5	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	4.78E+00	1.09E+00	3.08E-01	3.82E-05	7.80E-04	1.65E-05	1.60E-03	5.52E-08	5.21E-07	2.03E-06	2.00E-06
2030	Annual	Mon-Sun	2.27E+09	Rollers	G4	15	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	7.74E+00	6.58E+00	3.76E+00	2.90E-04	1.14E-02	2.06E-04	1.74E-02	4.96E-07	1.46E-04	1.81E-05	1.52E-05
2030	Annual	Mon-Sun	2.27E+09	Rollers	G4	25	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	5.22E+00	4.44E+00	5.53E+00	4.36E-04	1.72E-02	2.71E-04	2.48E-02	6.28E-07	2.08E-04	1.75E-05	2.28E-05
2030	Annual	Mon-Sun	2.27E+09	Rollers	G4	50	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	3.17E-01	5.40E-01	1.55E+00	2.90E-05	2.63E-03	3.23E-05	1.07E-02	1.30E-07	8.19E-07	2.04E-06	1.51E-06
2030	Annual	Mon-Sun	2.27E+09	Rollers	G4	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	5.96E-01	1.01E+00	4.66E+00	4.80E-05	2.84E-03	1.05E-04	4.03E-02	3.89E-07	3.12E-06	5.07E-06	2.51E-06
2030	Annual	Mon-Sun	2.27E+09	Paving Equ	G4	5	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	6.01E+01	2.80E+01	5.71E+00	8.25E-04	1.31E-02	3.56E-04	3.13E-02	1.08E-06	1.02E-05	4.77E-05	4.32E-05
2030	Annual	Mon-Sun	2.27E+09	Paving Equ	G4	15	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.02E+02	5.58E+01	3.37E+01	2.58E-03	1.02E-01	1.84E-03	1.56E-01	4.44E-06	1.31E-03	1.58E-04	1.35E-04
2030	Annual	Mon-Sun	2.27E+09	Paving Equ	G4	25	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	2.26E+00	1.24E+00	1.70E+00	1.33E-04	5.28E-03	8.31E-05	7.61E-03	1.93E-07	6.38E-05	5.12E-06	6.99E-06
2030	Annual	Mon-Sun	2.27E+09	Paving Equ	G4	50	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.23E+00	5.90E-01	1.33E+00	1.53E-05	1.08E-03	2.12E-05	1.11E-02	1.35E-07	8.52E-07	1.75E-06	7.99E-07
2030	Annual	Mon-Sun	2.27E+09	Paving Equ	G4	120	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	3.17E-01	1.52E-01	5.46E-01	2.68E-06	1.27E-04	5.90E-06	5.06E-03	4.89E-08	3.92E-07	4.68E-07	1.40E-07
2030	Annual	Mon-Sun	2.27E+09	Surfacing E	G4	5	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	1.10E+01	6.05E+00	1.26E+00	1.89E-04	2.83E-03	8.16E-05	7.02E-03	2.42E-07	2.29E-06	1.06E-05	9.90E-06
2030	Annual	Mon-Sun	2.27E+09	Surfacing E	G4	15	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	3.28E+01	4.52E+01	1.82E+01	1.47E-03	5.49E-02	1.04E-03	8.39E-02	2.39E-06	7.03E-04	1.06E-04	7.68E-05
2030	Annual	Mon-Sun	2.27E+09	Surfacing E	G4	25	Constructio	U	P	NHH	NP	Monterey	NCC	MBU	4.49E-01	6.19E-01	6.11E-01	5.04E-05	1.89E-03	3.14E-05	2.73E-03	6.91E-08	2.29E-05	2.20E-06	2.64E-06
2030	Annual	Mon-Sun	2.27E+09	Signal Boar

2030	Annual	Mon-Sun	2.27E+09	Other Gene	G4	25	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.80E+00	2.12E+00	2.16E+00	1.16E-04	6.77E-03	8.52E-05	9.75E-03	2.47E-07	5.35E-06	6.67E-06	6.06E-06
2030	Annual	Mon-Sun	2.27E+09	Other Gene	G4	50	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.59E+00	3.11E+00	5.65E+00	7.69E-05	6.87E-03	1.51E-04	4.35E-02	5.29E-07	3.33E-06	1.07E-05	4.01E-06
2030	Annual	Mon-Sun	2.27E+09	Other Gene	G4	120	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	5.22E-01	1.02E+00	4.13E+00	2.38E-05	1.61E-03	1.24E-04	3.72E-02	3.59E-07	2.88E-06	5.78E-06	1.24E-06
2030	Annual	Mon-Sun	2.27E+09	Other Gene	G4	175	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	5.06E-02	9.88E-02	8.49E-01	3.34E-06	3.00E-04	2.50E-05	7.71E-03	7.66E-08	6.14E-07	8.29E-07	1.74E-07
2030	Annual	Mon-Sun	2.27E+09	Other Mate	G4	50	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	2.25E-02	2.38E-02	5.91E-02	8.58E-07	7.68E-05	1.68E-06	4.46E-04	5.43E-09	3.42E-08	9.95E-08	4.49E-08
2030	Annual	Mon-Sun	2.27E+09	Other Mate	G4	120	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	9.94E-01	1.05E+00	2.87E+00	1.86E-05	1.23E-03	9.09E-05	2.57E-02	2.48E-07	1.99E-06	4.94E-06	9.73E-07
2030	Annual	Mon-Sun	2.27E+09	Lawn Mow	G4	5	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	2.59E+03	1.62E+03	2.00E+02	2.47E-02	4.67E-01	6.04E-03	1.11E+00	3.82E-05	3.49E-03	1.43E-03	1.29E-03
2030	Annual	Mon-Sun	2.27E+09	Lawn Mow	G4	5	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	4.11E+04	1.74E+03	2.39E+02	1.91E-02	6.67E-01	4.54E-03	1.19E+00	4.11E-05	2.86E-03	1.26E-03	9.95E-04
2030	Annual	Mon-Sun	2.27E+09	Tillers	G4	5	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	2.69E+02	4.12E+01	6.07E+00	5.60E-04	1.61E-02	1.35E-04	3.12E-02	1.08E-06	8.24E-05	3.38E-05	2.93E-05
2030	Annual	Mon-Sun	2.27E+09	Tillers	G4	5	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	1.04E+03	5.15E+01	7.73E+00	6.57E-04	2.11E-02	1.57E-04	3.90E-02	1.35E-06	9.79E-05	4.07E-05	3.44E-05
2030	Annual	Mon-Sun	2.27E+09	Trimmers/E	G4	5	Lawn and G	C	P	NHH	NP	Monterey	NCC	MBU	4.73E+02	1.76E+02	5.60E+00	7.56E-04	1.35E-02	3.26E-04	3.00E-02	1.03E-06	9.77E-06	1.07E-04	3.96E-05
2030	Annual	Mon-Sun	2.27E+09	Trimmers/E	G4	5	Lawn and G	R	P	NHH	NP	Monterey	NCC	MBU	2.20E+03	1.30E+02	4.32E+00	5.15E-04	1.12E-02	2.22E-04	2.21E-02	7.64E-07	7.21E-06	7.56E-05	2.69E-05
2030	Annual	Mon-Sun	2.27E+09	Leaf Blowe	G4	5	Lawn and G	C	N	NHH	P	Monterey	NCC	MBU	1.21E+02	2.05E+01	1.42E+00	1.08E-04	3.99E-03	2.57E-05	6.99E-03	2.41E-07	1.64E-05	1.01E-05	5.67E-06
2030	Annual	Mon-Sun	2.27E+09	Leaf Blowe	G4	5	Lawn and G	R	N	NHH	P	Monterey	NCC	MBU	1.04E+02	1.36E+00	9.85E-02	5.91E-06	2.95E-04	1.41E-06	4.64E-04	1.60E-08	9.27E-07	6.03E-07	3.09E-07
2030	Annual	Mon-Sun	2.27E+09	Rear Engine	G4	15	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	1.42E+03	1.05E+03	3.66E+02	1.75E-02	1.12E+00	1.21E-02	1.71E+00	4.87E-05	7.92E-04	1.70E-03	9.16E-04
2030	Annual	Mon-Sun	2.27E+09	Rear Engine	G4	15	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	1.24E+03	9.61E+01	3.32E+01	1.36E-03	1.02E-01	9.49E-04	1.56E-01	4.44E-06	6.21E-05	1.43E-04	7.11E-05
2030	Annual	Mon-Sun	2.27E+09	Rear Engine	G4	25	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	6.49E+00	4.82E+00	3.25E+00	1.50E-04	1.02E-02	1.06E-04	1.48E-02	3.74E-07	6.85E-06	1.10E-05	7.86E-06
2030	Annual	Mon-Sun	2.27E+09	Rear Engine	G4	25	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	5.60E+00	4.32E-01	2.91E-01	1.17E-05	9.17E-04	7.87E-06	1.32E-03	3.35E-08	5.28E-07	8.89E-07	6.14E-07
2030	Annual	Mon-Sun	2.27E+09	Front Mow	G4	15	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	6.50E+01	4.84E+01	2.68E+01	1.28E-03	8.17E-02	8.86E-04	1.25E-01	3.56E-06	5.80E-05	1.00E-04	6.70E-05
2030	Annual	Mon-Sun	2.27E+09	Front Mow	G4	15	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	2.10E+03	1.62E+02	8.96E+01	3.66E-03	2.74E-01	2.56E-03	4.20E-01	1.20E-05	1.68E-04	3.10E-04	1.92E-04
2030	Annual	Mon-Sun	2.27E+09	Front Mow	G4	25	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	5.09E+01	3.79E+01	2.82E+01	1.30E-03	8.88E-02	9.17E-04	1.28E-01	3.24E-06	5.94E-05	9.09E-05	6.82E-05
2030	Annual	Mon-Sun	2.27E+09	Front Mow	G4	25	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	1.65E+03	1.27E+02	9.46E+01	3.81E-03	2.98E-01	2.56E-03	4.30E-01	1.09E-05	1.72E-04	2.76E-04	2.00E-04
2030	Annual	Mon-Sun	2.27E+09	Shredders	G4	5	Lawn and G	C	P	NHH	NP	Monterey	NCC	MBU	5.11E+01	1.90E+01	5.38E+00	7.26E-04	1.30E-02	3.13E-04	2.88E-02	9.93E-07	9.38E-06	3.71E-05	3.80E-05
2030	Annual	Mon-Sun	2.27E+09	Shredders	G4	5	Lawn and G	R	P	NHH	NP	Monterey	NCC	MBU	1.90E+03	4.68E+00	1.56E+00	1.22E-04	4.80E-03	5.24E-05	7.09E-03	2.45E-07	2.47E-06	7.45E-06	6.37E-06
2030	Annual	Mon-Sun	2.27E+09	Lawn & Gai	G4	15	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	2.60E+02	9.16E+01	6.11E+01	2.45E-03	1.87E-01	1.72E-03	2.86E-01	8.16E-06	1.12E-04	1.92E-04	1.29E-04
2030	Annual	Mon-Sun	2.27E+09	Lawn & Gai	G4	15	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	1.69E+03	6.76E+01	4.50E+01	1.67E-03	1.38E-01	1.17E-03	2.11E-01	6.02E-06	7.68E-05	1.36E-04	8.74E-05
2030	Annual	Mon-Sun	2.27E+09	Lawn & Gai	G4	25	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	1.03E+02	3.61E+01	3.84E+01	1.52E-03	1.21E-01	1.02E-03	1.74E-01	4.42E-06	6.85E-05	9.40E-05	7.97E-05
2030	Annual	Mon-Sun	2.27E+09	Lawn & Gai	G4	25	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	6.67E+02	2.67E+01	2.83E+01	1.05E-03	8.92E-02	6.81E-04	1.29E-01	3.26E-06	4.68E-05	6.58E-05	5.49E-05
2030	Annual	Mon-Sun	2.27E+09	Lawn & Gai	G4	50	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	1.48E+00	4.23E-01	6.48E-01	6.99E-06	4.78E-04	1.30E-05	5.48E-03	6.66E-08	4.20E-07	1.15E-06	3.66E-07
2030	Annual	Mon-Sun	2.27E+09	Wood Split	G4	5	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	8.74E+01	3.08E+01	9.39E+00	1.03E-03	2.32E-02	2.50E-04	5.03E-02	1.74E-06	1.48E-04	4.11E-05	5.38E-05
2030	Annual	Mon-Sun	2.27E+09	Wood Split	G4	5	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	2.18E+03	6.58E+00	2.34E+00	1.18E-04	7.25E-03	2.75E-05	1.07E-02	3.71E-07	1.92E-05	6.15E-06	6.15E-06
2030	Annual	Mon-Sun	2.27E+09	Chippers/Sh	G4	15	Lawn and G	C	P	NHH	P	Monterey	NCC	MBU	1.23E+00	4.26E+00	3.79E+00	3.07E-04	1.15E-02	2.17E-04	1.73E-02	4.93E-07	1.45E-04	1.51E-05	1.58E-05
2030	Annual	Mon-Sun	2.27E+09	Chippers/Sh	G4	15	Lawn and G	R	P	NHH	P	Monterey	NCC	MBU	2.20E+00	9.94E-02	8.70E-02	5.28E-06	2.64E-04	3.72E-06	4.04E-04	1.15E-08	3.38E-06	3.01E-07	2.76E-07
2030	Annual	Mon-Sun	2.27E+09	Chippers/Sh	G4	25	Lawn and G	C	P	NHH	P	Monterey	NCC	MBU	6.99E+00	2.42E+01	3.63E+01	3.01E-03	1.14E-01	1.87E-03	1.61E-01	4.07E-06	1.35E-03	1.07E-04	1.55E-04
2030	Annual	Mon-Sun	2.27E+09	Chippers/Sh	G4	25	Lawn and G	R	P	NHH	P	Monterey	NCC	MBU	1.24E+01	5.63E-01	8.31E-01	5.15E-05	2.60E-03	3.18E-05	3.74E-03	9.48E-08	3.13E-05	2.12E-06	2.70E-06
2030	Annual	Mon-Sun	2.27E+09	Commercia	G4	15	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	9.21E+01	2.02E+02	1.13E+02	6.58E-03	3.46E-01	4.50E-03	5.25E-01	1.50E-05	2.94E-04	4.63E-04	3.43E-04
2030	Annual	Mon-Sun	2.27E+09	Commercia	G4	25	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	4.54E+01	9.94E+01	9.94E+01	5.44E-03	3.12E-01	4.01E-03	4.47E-01	1.13E-05	2.50E-04	3.13E-04	2.83E-04
2030	Annual	Mon-Sun	2.27E+09	Commercia	G4	50	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	1.83E+01	3.67E+01	6.35E+01	1.03E-03	1.05E-01	2.08E-03	4.44E-01	5.40E-06	3.40E-05	1.36E-04	5.37E-05
2030	Annual	Mon-Sun	2.27E+09	Commercia	G4	120	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	1.21E-01	2.43E-01	5.97E-01	2.88E-06	1.60E-04	1.65E-05	5.50E-03	5.31E-08	4.26E-07	1.01E-06	1.51E-07
2030	Annual	Mon-Sun	2.27E+09	Other Lawr	G4	5	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	8.09E+01	1.52E+01	3.25E+00	2.98E-04	8.64E-03	7.18E-05	1.67E-02	5.76E-07	4.39E-05	1.52E-05	1.56E-05
2030	Annual	Mon-Sun	2.27E+09	Other Lawr	G4	5	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	2.48E+03	2.92E+01	6.83E+00	4.00E-04	2.06E-02	9.51E-05	3.21E-02	1.11E-06	6.31E-05	2.39E-05	2.10E-05
2030	Annual	Mon-Sun	2.27E+09	Other Lawr	G4	15	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	3.59E+01	6.75E+00	3.16E+00	1.29E-04	9.68E-03	9.00E-05	1.48E-02	4.23E-07	5.89E-06	1.18E-05	6.74E-06
2030	Annual	Mon-Sun	2.27E+09	Other Lawr	G4	15	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	1.10E+03	1.30E+01	6.07E+00	2.17E-04	1.86E-02	1.53E-04	2.85E-02	8.12E-07	9.82E-06	2.12E-05	1.13E-05
2030	Annual	Mon-Sun	2.27E+09	Other Lawr	G4	25	Lawn and G	C	N	NHH	NP	Monterey	NCC	MBU	7.59E-01	1.43E-01	1.46E-01	5.87E-06	4.61E-04	3.94E-06	6.66E-04	1.69E-08	2.64E-07	3.67E-07	3.07E-07
2030	Annual	Mon-Sun	2.27E+09	Other Lawr	G4	25	Lawn and G	R	N	NHH	NP	Monterey	NCC	MBU	2.34E+01	2.76E-01	2.83E-01	1.02E-05	8.93E-04	6.45E-06	1.29E-03	3.26E-08	4.44E-07	6.49E-07	5.33E-07
2030	Annual	Mon-Sun	2.27E+09	Other Lawr	G4	50	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	5.50E-02	9.19E-03	1.94E-02	2.05E-07	1.31E-05	3.78E-07	1.66E-04	2.01E-09	1.27E-08	2.91E-08	1.07E-08
2030	Annual	Mon-Sun	2.27E+09	2-Wheel Tr	G4	5	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.53E+01	1.55E+01	3.34E+00	4.77E-04	7.74E-03	2.06E-04	1.82E-02	6.29E-07	5.94E-06	2.70E-05	2.50E-05
2030	Annual	Mon-Sun	2.27E+09	2-Wheel Tr	G4	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.11E+01	3.75E+01	1.91E+01	1.47E-03	5.75E-02	1.05E-03	8.80E-02	2.51E-06	7.37E-04	9.71E-05	7.72E-05
2030	Annual	Mon-Sun	2.27E+09	2-Wheel Tr	G4	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.10E+00	1.01E+00	1.06E+00	8.35E-05	3.27E-03	5.20E-05	4.72E-03	1.20E-07	3.96E-05	3.62E-06	4.37E-06
2030	Annual	Mon-Sun	2.27E+09	Agricultura	G4	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.20E+01	1.80E+01	8.97E+01	8.66E-04	5.03E-02	1.91E-03	7.83E-01	7.57E-06	6.07E-05	9.13E-05	4.53E-05
2030	Annual	Mon-Sun	2.27E+09	Agricultura	G4	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.64E+00	2.47E+00	1.76E+01	1.67E-04	6.68E-03	4.12E-04	1.59E-01	1.58E-06	1.27E-05	1.58E-05	8.74E-06
2030	Annual	Mon-Sun	2.27E+09	Combines	G4	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.00E+00	1.03E+00	7.16E+00	3.20E-05	1.38E-03	7.01E-05	6.69E-02	6.46E-07	5.18E-06	4.28E-06	1.67E-06
2030	Annual	Mon-Sun	2.27E+09	Combines	G4	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.66E+00	5.71E-01	6.30E+00	2.04E-05	2.04E-03	6.65E-05	5.75E-02	5.71E-07	4.58E-06	3.17E-06	1.07E-06
2030	Annual	Mon-Sun	2.27E+09	Combines	G4	250	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	3.07E-01	1.05E-01	1.34E+00	3.70E-06	4.45E-04	3.80E-05	1.22E-02	1.25E-07	1.00E-06	1.07E-06	1.94E-07
2030	Annual	Mon-Sun	2.27E+09	Balers	G4	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.37E+01	8.14E+00	1.59E+01	1.78E-04	1.11E-02	2.66E-04	1.35E-01	1.65E-06	1.04E-05	2.26E-05	9.34E-06
2030	Annual	Mon-Sun	2.27E+09	Balers	G4	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	2.23E+01	4.17E+00	1.34E+01	6.64E-05	2.62E-03	1.61E-04	1.25E-01	1.21E-06	9.70E-06	1.21E-05	3.47E-06
2030	Annual	Mon-Sun	2.27E+09	Agricultura	G4	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.67E+01	1.81E+01	7.14E+00	5.50E-04	2.15E-02	3.92E-04	3.30E-02	9.40E-07	2.76E-04	4.09E-05	2.88E-05
2030	Annual	Mon-Sun	2.27E+09	Agricultura	G4	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.00E+01	1.48E+01	1.36E+01	1.07E-03	4.21E-02	6.66E-04	6.07E-02	1.54E-06	5.08E-04	4.95E-05	5.60E-05
2030	Annual	Mon-Sun	2.27E+09	Sprayers	G4	5	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.39E+02	3.74E+01	6.55E+00	9.15E-04	1.54E-02	3.95E-04	3.55E-02	1.22E-06	1.16E-05	5.76E-05	4.79E-05
2030	Annual	Mon-Sun	2.27E+09	Sprayers	G4	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.33E+01	1.17E+01	4.18E+00	3.19E-04	1.26E-02	2.27E-04	1.93E-02	5.50E-07	1.62E-04	2.49E-05	1.67E-05
2030	Annual	Mon-Sun	2.27E+09	Sprayers	G4	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.12E+02	3.01E+01	2.71E+01	2.12E-03	8.41E-02	1.32E-03	1.21E-01	3.07E-06	1.02E-03	9.90E-05	1.11E-04
2030	Annual	Mon-Sun	2.27E+09	Sprayers	G4	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	8.22E+00	1.80E+00	3.03E+00	3.46E-05	2.20E-03	5.11E-05	2.57E-02	3.12E-07	1.97E-06	4.64E-06	1.81E-06
2030	Annual	Mon-Sun	2.27E+09	Sprayers	G4	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.39E+01	3.04E+00	9.48E+00	4.81E-05	1.94E-03	1.16E-04	8.83E-02	8.53E-07	6.84E-06	8.79E-06	2.52E-06
2030	Annual	Mon-Sun	2.27E+09	Sprayers	G4	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.12E+00	6.86E-01	4.37E+00	1.58E-05	1.42E-03	5.82E-05	3.98E-02	3.96E-07	3.17E-06	3.03E-06	8.25E-07
2030	Annual	Mon-Sun	2.27E+09	Tillers	G4	15	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	4.74E+03	9.23E+02	4.66E+02	2.44E-02	1.42E+00	1.68E-02	2.17E+00	6.19E-05	1.10E-03	1.90E-03	1.28E-03
2030	Annual	Mon-Sun	2.27E+09	Swathers	G4	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.48E+01	1.17E+01	4.91E+01	2.56E-04	1.06E-02	6.16E-04	4.56E-01	4.40E-06	3.53E-05	4.01E-05	1.34E-05
2030	Annual	Mon-Sun	2.27E+09	Swathers	G4	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.43E+01	8.94E+00	5.46E+01	2.07E-04	1.78E-02	7.46E-04	4.98E-01	4.95E-06	3.97E-05	3.92E-05	1.09E-05
2030	Annual	Mon-Sun	2.27E+09	Hydro Pow	G4	5	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	8.39E+00	4.03E+00	9.72E-01	1.41E-04	2.23E-03	6.10E-05	5.34E-03	1.84E-07	1.74E-06	7.52E-06	7.40E-06
2030	Annual	Mon-Sun	2.27E+09	Hydro Pow	G4	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.68E+01	2.13E+01	9.81E+00	7.81E-04	2.96E-02	5.56E-04	4.52E-02	1.29E-06	3.79E-04	5.32E-05	4.08E-05
2030	Annual	Mon-Sun	2.27E+09	Hydro Pow	G4	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	6.39E+00	8.13E+00	8.20E+00	6.68E-04	2.54E-02	4.16E-04	3.66E-02	9.29E-07	3.07E-04	2.91E-05	3.49E-05
2030	Annual	Mon-Sun	2.27E+09	Hydro Pow	G4	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.10E-01	5.06E-01	1.13E+00	1.35E-05	9.95E-04	1.82E-05	9.29E-03	1.13E-07	7.12E-07	1.50E-06	7.03E-07
2030	Annual	Mon-Sun	2.27E+09	Hydro Pow	G4	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	5.12E-02	6.32E-02	2.15E-01	1.02E-06	4.65E-05	2.24E-06	1.99E-03	1.93E-08	1.55E-07	1.85E-07	5.32E-08
2030	Annual	Mon-Sun	2.27E+09	Other Agric	G4	5	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	5.85E+00	2.33E+00	4.49E-01	6.24E-05	1.06E-03	2.69E-05	2.42E-03	8.37E-08	7.90E-07	3.76E-06	3.26E-06
2030	Annual	Mon-Sun	2.27E+09	Other Agric	G4	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	5.12E+00	2.04E+00	1.15E+00	8.76E-05	3.46E-03	6.24E-05	5.30E-03	1.51E-07	4.44E-05	5.53E-06	4.59E-06
2030	Annual	Mon-Sun	2.27E+09	Other Agric	G4	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.30E+00	5.19E-01	7.54E-01	5.90E-05	2.34E-03	3.67E-05	3.38E-03	8.56E-08	2.83E-05	2.21E-06	3.09E-06
2030	Annual	Mon-Sun	2.27E+09	Other Agric	G4	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.36E+00	4.62E-01	7.56E-01	8.38E-06	5.74E-04	1.19E-05	6.36E-03	7.73E-08	4.87E-07	1.14E-06	4.39E-07
2030	Annual	Mon-Sun	2.27E+09	Other Agric	G4	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	7.86E+00	2.67E+00	9.05E+00	4.26E-05	1.93E-03	9.38E-05	8.41E-02	8.13E-07	6.52E-06	7.80E-06	2.23E-06
2030	Annual	Mon-Sun	2.27E+09	Other Agric	G4	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	8.96E-01	3.05E-01	2.08E+00	7.42E-06	6.78E-04	2.31E-05	1.89E-02	1.88E-07	1.51E-06	1.34E-06	3.89E-07
2030	Annual	Mon-Sun	2.27E+09	Other Agric	G4	250	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	3.33E-01	1.13E-01	1.36E+00	3.94E-06	4.55E-04	3.88E-05	1.24E-02	1.26E-07	1.01E-06	1.12E-06	2.06E-07
2030	Annual	Mon-Sun	2.27E+09	Generator S	G4	5	Light Comn	C	N	NHH	P	Monterey	NCC	MBU	4.28E+02	1.57E+02	3.50E+01	5.02E-03	7.42E-02	1.24E-03	2.02E-01	6.99E-06	6.98E-04	2.07E-04	2.63E-04
2030	Annual	Mon-Sun	2.27E+09	Generator S	G4	5	Light Comn	R	N	NHH	P	Monterey	NCC	MBU	3.36E+02	8.31E+01	1.87E+01	2.62E-03	4.04E-02	6.54E-04	1.07E-01	3.70E-06	3.63E-04	1.09E-04	1.37E-04
2030	Annual	Mon-Sun	2.27E+09	Generator S	G4	15	Light Comn	C	N	NHH	P	Monterey	NCC	MBU	1.17E+03	4.32E+02	2.69E+02	1.46E-02	8.17E-01	1.00E-02	1.25E+00	3.57E-05	6.57E-04	1.01E-03	7.65E-04
2030	Annual	Mon-Sun	2.27E+09	Generator S	G4	15	Light Comn	R	N	NHH	P	Monterey	NCC	MBU	9.23E+02	2.28E+02	1.42E+02	7.73E-03	4.32E-01	5.32E-03	6.61E-01	1.89E-05	3.45E-04	5.36E-04	4.05E-04
2030	Annual	Mon-Sun	2.27E+09	Generator S	G4	25	Light Comn	C	N	NHH	P	Monterey	NCC	MBU	6.31E+02	2.32E+02	3.14E+02	1.62E-02	9.84E-01	1.18E-02	1.42E+00	3.60E-05	7.46E-04	8.25E-04	8.48E-04
2030	Annual	Mon-Sun	2.27E+09	Generator S	G4	25	Light Comn	R	N	NHH	P	Monterey	NCC	MBU	4.96E+02	1.23E+02	1.66E+02	8.60E-03	5.20E-01	6.22E-03	7.50E-01	1.90E-05	3.92E-04	4.35E-04	4.50E-04
2030	Annual	Mon-Sun	2.27E+09	Generator S	G4	50	Light Comn	U	N	NHH	P	Monterey	NCC	MBU	2.10E+02	6.61E+01	1.48E+02	1.68E-03	1.17E-01	3.14E-03	1.24E+00	1.51E-05	9.51E-05	2.26E-04	8.79E-05
2030	Annual	Mon-Sun	2.27E+09	Generator S	G4	120	Light Comn	U	N	NHH	P	Monterey	NCC	MBU	4.06E+01	1.28E+01	6.63E+01	3.14E-04	1.50E-02	1.82E-03	6.15E-01	5.94E-06	4.77E-05	7.85E-05	1.64E-05
2030	Annual	Mon-Sun	2.27E+09	Generator S	G4	175	Light Comn	U	N	NHH	P	Monterey	NCC	MBU	3.83E+00	1.21E+00	1.09E+01	3.30E-05	3.57E-03	3.13E-04	9.94E-02	9.88E-07	7.92E-06	1.02E-05	1.73E-06
2030	Annual	Mon-Sun	2.27E+09	Pumps	G4	5	Light Comn	C	P	NHH	P	Monterey	NCC	MBU	1.52E+02	1.07E+02	1.81E+01	3.01E-03	3.73E-02	1.30E-03	1.05E-01	3.63E-06	3.42E-05	1.78E-04	1.58E-04
2030	Annual	Mon-Sun	2.27E+09	Pumps	G4	5	Light Comn	R	P	NHH	P	Monterey	NCC	MBU	1.19E+02	5.66E+01	9.63E+00	1.58E-03	2.00E-02	6.82E-04	5.55E-02	1.92E-06	1.81E-05	9.36E-05	8.27E-05
2030	Annual	Mon-Sun	2.27E+09	Pumps	G4	15	Light Comn	C	P	NHH	P	Monterey	NCC	MBU	1.64E+02	1.16E+02	6.58E+01	5.16E-03	1.98E-01	3.67E-03	3.03E-01	8.65E-06	2.54E-03	3.21E-04	2.70E-04
2030	Annual	Mon-Sun	2.27E+09	Pumps	G4	15	Light Comn	R	P	NHH	P	Monterey	NCC	MBU	1.29E+02	6.13E+01	3.47E+01	2.70E-03	1.05E-01	1.92E-03	1.60E-01	4.57E-06	1.34E-03	1.69E-04	1.41E-04
2030	Annual	Mon-Sun	2.27E+09	Pumps	G4	25	Light Comn	C	P	NHH	P	Monterey	NCC	MBU	4.21E+01	2.97E+01	3.69E+01	2.94E-03	1.15E-01	1.83E-03	1.65E

2030	Annual	Mon-Sun	2.27E+09	Forklifts	C4	50	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	3.04E+01	1.50E+02	2.01E+02	1.33E-04	2.21E-02	5.77E-03	1.37E+00	0.00E+00	1.22E-04	0.00E+00	1.12E-03
2030	Annual	Mon-Sun	2.27E+09	Forklifts	C4	120	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.07E+02	5.27E+02	1.26E+03	7.90E-04	3.72E-01	3.74E-02	8.24E+00	0.00E+00	7.32E-04	0.00E+00	6.62E-03
2030	Annual	Mon-Sun	2.27E+09	Forklifts	C4	175	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	3.91E+00	1.93E+01	9.42E+01	3.62E-05	2.18E-02	1.86E-03	6.29E-01	0.00E+00	5.59E-05	0.00E+00	3.04E-04
2030	Annual	Mon-Sun	2.27E+09	Generator S	C4	120	Light Comn	U	N	NHH	P	Monterey	NCC	MBU	3.02E+00	9.50E-01	5.94E+00	1.32E-06	1.25E-03	1.08E-04	3.99E-02	0.00E+00	3.55E-06	0.00E+00	1.11E-05
2030	Annual	Mon-Sun	2.27E+09	Generator S	C4	175	Light Comn	U	N	NHH	P	Monterey	NCC	MBU	2.50E+00	7.88E-01	8.59E+00	1.47E-06	1.50E-03	1.45E-04	5.82E-02	0.00E+00	5.17E-06	0.00E+00	1.23E-05
2030	Annual	Mon-Sun	2.27E+09	Gas Compr	C4	50	Light Comn	U	P	NHH	P	Monterey	NCC	MBU	4.69E-01	1.09E+01	3.74E+01	2.13E-05	3.77E-03	7.72E-04	2.57E-01	0.00E+00	1.97E-05	0.00E+00	1.78E-04
2030	Annual	Mon-Sun	2.27E+09	Gas Compr	C4	120	Light Comn	U	P	NHH	P	Monterey	NCC	MBU	9.70E-01	2.26E+01	2.19E+02	1.16E-04	6.02E-02	4.57E-03	1.44E+00	0.00E+00	1.12E-04	0.00E+00	9.72E-04
2030	Annual	Mon-Sun	2.27E+09	Gas Compr	C4	175	Light Comn	U	P	NHH	P	Monterey	NCC	MBU	1.56E-01	3.64E+00	5.61E+01	3.23E-05	1.23E-02	1.22E-03	3.75E-01	0.00E+00	2.99E-05	0.00E+00	2.71E-04
2030	Annual	Mon-Sun	2.27E+09	Gas Compr	C4	250	Light Comn	U	N	NHH	P	Monterey	NCC	MBU	1.25E-01	2.91E+00	5.82E+01	2.49E-05	1.41E-02	1.18E-03	3.87E-01	0.00E+00	3.44E-05	0.00E+00	2.09E-04
2030	Annual	Mon-Sun	2.27E+09	Gas Compr	C4	500	Light Comn	U	N	NHH	P	Monterey	NCC	MBU	1.10E-01	2.55E+00	8.19E+01	3.50E-05	1.99E-02	1.67E-03	5.45E-01	0.00E+00	4.85E-05	0.00E+00	2.94E-04
2030	Annual	Mon-Sun	2.27E+09	Cargo Tract	C4	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	4.76E-01	2.03E-01	1.88E+00	3.39E-07	3.33E-04	3.19E-05	1.27E-02	0.00E+00	1.13E-06	0.00E+00	2.85E-06
2030	Annual	Mon-Sun	2.27E+09	Air Conditic	C4	175	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	7.94E-02	4.79E-03	5.12E-02	7.12E-09	8.57E-06	8.36E-07	3.48E-04	0.00E+00	3.09E-08	0.00E+00	5.97E-08
2030	Annual	Mon-Sun	2.27E+09	Baggage Tu	C4	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.12E+00	2.56E+00	1.59E+01	9.92E-06	4.61E-03	4.71E-04	1.05E-01	0.00E+00	9.31E-06	0.00E+00	8.31E-05
2030	Annual	Mon-Sun	2.27E+09	Belt Loader	C4	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	2.99E-01	4.52E-01	1.52E+00	7.11E-07	3.95E-04	3.83E-05	1.01E-02	0.00E+00	8.98E-07	0.00E+00	5.96E-06
2030	Annual	Mon-Sun	2.27E+09	Bobtail	C4	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	2.57E-02	6.17E-02	3.79E-01	1.33E-07	9.07E-05	8.24E-06	2.52E-03	0.00E+00	2.25E-07	0.00E+00	1.12E-06
2030	Annual	Mon-Sun	2.27E+09	Cargo Load	C4	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.21E-01	3.42E-01	1.36E+00	1.00E-06	4.25E-04	4.47E-05	8.90E-03	0.00E+00	7.91E-07	0.00E+00	8.39E-06
2030	Annual	Mon-Sun	2.27E+09	Forklift	C4	50	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.57E+00	3.13E+00	5.06E+00	1.61E-06	4.33E-04	1.17E-04	3.50E-02	0.00E+00	3.11E-06	0.00E+00	1.35E-05
2030	Annual	Mon-Sun	2.27E+09	Fuel Truck	C4	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	5.27E-02	8.17E-02	3.17E-01	9.73E-08	6.57E-05	6.04E-06	2.13E-03	0.00E+00	1.89E-07	0.00E+00	8.16E-07
2030	Annual	Mon-Sun	2.27E+09	Lav Truck	C4	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	4.73E-02	5.02E-02	1.80E-01	4.54E-08	3.50E-05	3.27E-06	1.21E-03	0.00E+00	1.08E-07	0.00E+00	3.81E-07
2030	Annual	Mon-Sun	2.27E+09	Lift	C4	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	4.42E-02	4.14E-02	2.31E-01	8.00E-08	5.43E-05	5.01E-06	1.54E-03	0.00E+00	1.37E-07	0.00E+00	6.70E-07
2030	Annual	Mon-Sun	2.27E+09	Other	C4	50	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	2.31E-01	6.45E-01	1.75E+00	1.35E-06	2.02E-04	5.47E-05	1.20E-02	0.00E+00	1.07E-06	0.00E+00	1.13E-05
2030	Annual	Mon-Sun	2.27E+09	Passenger S	C4	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	2.04E-02	6.72E-04	7.17E-03	9.74E-10	1.19E-06	1.17E-07	4.86E-05	0.00E+00	4.32E-09	0.00E+00	8.16E-09
2030	Annual	Mon-Sun	2.27E+09	Sweeper	C4	50	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	2.04E-02	1.56E-02	3.84E-02	1.08E-08	3.18E-06	8.68E-07	2.66E-04	0.00E+00	2.36E-08	0.00E+00	9.07E-08
2030	Annual	Mon-Sun	2.27E+09	Service Tru	C4	250	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	2.34E-01	8.34E-01	3.35E+00	1.34E-06	7.88E-04	6.67E-05	2.23E-02	0.00E+00	1.98E-06	0.00E+00	1.12E-05
2030	Annual	Mon-Sun	2.27E+09	Catering Tr	C4	250	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	8.94E-02	1.11E-01	1.31E+00	3.56E-07	2.60E-04	2.41E-05	8.78E-03	0.00E+00	7.81E-07	0.00E+00	2.98E-06
2030	Annual	Mon-Sun	2.27E+09	Pavers	D	25	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	1.51E-01	3.39E-01	2.88E-01	3.81E-06	1.30E-05	2.41E-05	3.16E-03	4.01E-08	9.00E-07	0.00E+00	3.44E-07
2030	Annual	Mon-Sun	2.27E+09	Pavers	D	50	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	8.75E+00	1.99E+01	2.56E+01	4.13E-04	2.64E-03	1.88E-03	2.78E-01	3.59E-06	6.55E-05	0.00E+00	3.72E-05
2030	Annual	Mon-Sun	2.27E+09	Pavers	D	120	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	1.03E+01	2.34E+01	7.39E+01	5.81E-04	5.42E-03	3.52E-03	8.10E-01	9.50E-06	1.73E-04	0.00E+00	5.24E-05
2030	Annual	Mon-Sun	2.27E+09	Pavers	D	175	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	6.41E+00	1.46E+01	8.50E+01	4.93E-04	5.46E-03	2.34E-03	9.33E-01	1.05E-05	1.22E-04	0.00E+00	4.45E-05
2030	Annual	Mon-Sun	2.27E+09	Pavers	D	250	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	7.73E-01	1.75E+00	1.54E+01	7.80E-05	3.58E-04	3.73E-04	1.70E-01	1.92E-06	1.37E-05	0.00E+00	7.03E-06
2030	Annual	Mon-Sun	2.27E+09	Pavers	D	500	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	7.93E-01	1.80E+00	1.90E+01	9.37E-05	4.36E-04	4.21E-04	2.10E-01	2.06E-06	1.59E-05	0.00E+00	8.45E-06
2030	Annual	Mon-Sun	2.27E+09	Plate Comp	D	15	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	3.23E+00	5.32E+00	1.05E+00	1.33E-05	7.00E-05	8.35E-05	1.15E-02	1.78E-07	3.26E-06	0.00E+00	1.20E-06
2030	Annual	Mon-Sun	2.27E+09	Rollers	D	15	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	6.07E+00	1.16E+01	3.34E+00	4.25E-05	2.23E-04	2.66E-04	3.65E-02	5.69E-07	1.04E-05	0.00E+00	3.84E-06
2030	Annual	Mon-Sun	2.27E+09	Rollers	D	25	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	2.54E+00	4.84E+00	2.94E+00	3.89E-05	1.33E-04	2.46E-04	3.23E-02	4.09E-07	9.19E-06	0.00E+00	3.51E-06
2030	Annual	Mon-Sun	2.27E+09	Rollers	D	50	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	7.90E+00	1.51E+01	1.80E+01	2.03E-04	1.65E-03	1.20E-03	1.96E-01	2.54E-06	2.54E-05	0.00E+00	1.83E-05
2030	Annual	Mon-Sun	2.27E+09	Rollers	D	120	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	4.24E+01	8.12E+01	2.18E+02	1.26E-03	1.53E-02	8.21E-03	2.39E+00	2.81E-05	2.79E-04	0.00E+00	1.14E-04
2030	Annual	Mon-Sun	2.27E+09	Rollers	D	175	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	1.71E+01	3.27E+01	1.61E+02	6.93E-04	9.94E-03	2.81E-03	1.76E+00	1.99E-05	1.30E-04	0.00E+00	6.26E-05
2030	Annual	Mon-Sun	2.27E+09	Rollers	D	250	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	2.42E+00	4.63E+00	3.20E+01	1.22E-04	6.85E-04	4.64E-04	3.54E-01	3.99E-06	1.53E-05	0.00E+00	1.10E-05
2030	Annual	Mon-Sun	2.27E+09	Rollers	D	500	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	1.70E+00	3.25E+00	3.22E+01	1.21E-04	6.61E-04	4.36E-04	3.56E-01	3.49E-06	1.49E-05	0.00E+00	1.09E-05
2030	Annual	Mon-Sun	2.27E+09	Scrapers	D	120	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	3.91E-01	1.18E+00	5.07E+00	4.01E-05	3.78E-04	2.33E-04	5.56E-02	6.52E-07	1.09E-05	0.00E+00	3.62E-06
2030	Annual	Mon-Sun	2.27E+09	Scrapers	D	175	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	3.58E+00	1.08E+01	7.31E+01	4.25E-04	4.78E-03	1.86E-03	8.02E-01	9.02E-06	9.62E-05	0.00E+00	3.84E-05
2030	Annual	Mon-Sun	2.27E+09	Scrapers	D	250	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	3.49E+00	1.06E+01	1.00E+02	5.15E-04	2.35E-03	2.24E-03	1.11E+00	1.24E-05	8.23E-05	0.00E+00	4.65E-05
2030	Annual	Mon-Sun	2.27E+09	Scrapers	D	500	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	9.61E+00	2.91E+01	4.23E+02	2.13E-03	9.74E-03	8.69E-03	4.67E+00	4.59E-05	3.30E-04	0.00E+00	1.92E-04
2030	Annual	Mon-Sun	2.27E+09	Scrapers	D	750	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	4.81E-01	1.45E+00	3.65E+01	1.84E-04	8.42E-04	7.62E-04	4.04E-01	4.06E-06	2.87E-05	0.00E+00	1.66E-05
2030	Annual	Mon-Sun	2.27E+09	Paving Equ	D	25	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	2.61E-01	5.93E-01	3.41E-01	4.51E-06	1.54E-05	2.85E-05	3.74E-03	4.75E-08	1.07E-06	0.00E+00	4.07E-07
2030	Annual	Mon-Sun	2.27E+09	Paving Equ	D	50	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	2.21E-01	5.04E-01	5.54E-01	8.51E-06	5.63E-05	4.04E-05	6.03E-03	7.79E-08	1.34E-06	0.00E+00	7.68E-07
2030	Annual	Mon-Sun	2.27E+09	Paving Equ	D	120	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	3.18E+00	7.27E+00	1.81E+01	1.36E-04	1.31E-03	8.33E-04	1.98E-01	2.32E-06	3.97E-05	0.00E+00	1.23E-05
2030	Annual	Mon-Sun	2.27E+09	Paving Equ	D	175	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	1.50E+00	3.42E+00	1.57E+01	8.81E-05	1.00E-03	4.13E-04	1.72E-01	1.94E-06	2.13E-05	0.00E+00	7.95E-06
2030	Annual	Mon-Sun	2.27E+09	Paving Equ	D	250	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	4.22E-01	9.63E-01	5.32E+00	2.60E-05	1.21E-04	1.22E-04	5.88E-02	6.62E-07	4.38E-06	0.00E+00	2.34E-06
2030	Annual	Mon-Sun	2.27E+09	Surfacing E	D	50	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	2.01E-01	2.47E-01	1.60E-01	1.59E-06	1.32E-05	1.04E-05	1.74E-03	2.25E-08	2.32E-07	0.00E+00	1.43E-07
2030	Annual	Mon-Sun	2.27E+09	Surfacing E	D	120	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	4.01E-02	4.95E-02	1.44E-01	7.34E-07	9.69E-06	5.43E-06	1.58E-03	1.85E-08	1.91E-07	0.00E+00	6.62E-08
2030	Annual	Mon-Sun	2.27E+09	Surfacing E	D	175	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	3.01E-02	3.71E-02	1.45E-01	5.52E-07	8.60E-06	2.63E-06	1.59E-03	1.79E-08	1.22E-07	0.00E+00	4.98E-08
2030	Annual	Mon-Sun	2.27E+09	Surfacing E	D	250	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	6.02E-02	7.42E-02	4.52E-01	1.51E-06	9.37E-06	6.94E-06	5.00E-03	5.63E-08	2.34E-07	0.00E+00	1.37E-07
2030	Annual	Mon-Sun	2.27E+09	Surfacing E	D	500	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	5.02E-01	6.19E-01	6.18E+00	2.04E-05	1.24E-04	8.88E-05	6.84E-02	6.71E-07	3.09E-06	0.00E+00	1.84E-06
2030	Annual	Mon-Sun	2.27E+09	Surfacing E	D	750	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	9.19E-02	1.13E-01	1.78E+00	5.86E-06	3.57E-05	2.59E-05	1.96E-02	1.97E-07	8.93E-07	0.00E+00	5.29E-07
2030	Annual	Mon-Sun	2.27E+09	Signal Boar	D	15	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	2.83E+01	5.81E+01	1.64E+01	2.08E-04	1.09E-03	1.31E-03	1.79E-01	2.79E-06	5.10E-05	0.00E+00	1.88E-05
2030	Annual	Mon-Sun	2.27E+09	Signal Boar	D	50	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	1.41E-01	2.06E-01	3.40E-01	2.58E-06	2.69E-05	2.09E-05	3.73E-03	4.82E-08	2.64E-07	0.00E+00	2.33E-07
2030	Annual	Mon-Sun	2.27E+09	Signal Boar	D	120	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	2.30E+00	3.37E+00	1.23E+01	5.07E-05	8.20E-04	3.94E-04	1.35E-01	1.58E-06	8.50E-06	0.00E+00	4.58E-06
2030	Annual	Mon-Sun	2.27E+09	Signal Boar	D	175	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	1.43E+00	2.09E+00	1.47E+01	4.47E-05	8.66E-04	1.67E-04	1.61E-01	1.82E-06	6.96E-06	0.00E+00	4.03E-06
2030	Annual	Mon-Sun	2.27E+09	Signal Boar	D	250	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	3.01E-01	4.42E-01	5.09E+00	1.44E-05	1.03E-04	4.87E-05	5.63E-02	6.34E-07	1.64E-06	0.00E+00	1.30E-06
2030	Annual	Mon-Sun	2.27E+09	Trenchers	D	15	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	7.53E-01	1.28E+00	4.93E-01	6.28E-06	3.29E-05	3.93E-05	5.39E-03	8.39E-08	1.54E-06	0.00E+00	5.67E-07
2030	Annual	Mon-Sun	2.27E+09	Trenchers	D	25	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	7.93E-01	1.34E+00	2.01E+00	2.67E-05	9.10E-05	1.68E-04	2.21E-02	2.80E-07	6.29E-06	0.00E+00	2.40E-06
2030	Annual	Mon-Sun	2.27E+09	Trenchers	D	50	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	3.02E+01	5.18E+01	7.82E+01	1.27E-03	7.80E-03	5.74E-03	8.51E-01	1.10E-05	2.16E-04	0.00E+00	1.15E-04
2030	Annual	Mon-Sun	2.27E+09	Trenchers	D	120	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	4.09E+01	7.01E+01	2.08E+02	1.64E-03	1.50E-02	1.02E-02	2.27E+00	2.67E-05	5.30E-04	0.00E+00	1.48E-04
2030	Annual	Mon-Sun	2.27E+09	Trenchers	D	175	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	4.48E+00	7.68E+00	5.03E+01	2.92E-04	3.18E-03	1.48E-03	5.52E-01	6.21E-06	7.79E-05	0.00E+00	2.63E-05
2030	Annual	Mon-Sun	2.27E+09	Trenchers	D	250	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	4.01E-01	6.89E-01	6.94E+00	3.46E-05	1.60E-04	1.82E-04	7.67E-02	8.63E-07	6.70E-06	0.00E+00	3.12E-06
2030	Annual	Mon-Sun	2.27E+09	Trenchers	D	500	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	5.12E-01	8.78E-01	1.24E+01	5.99E-05	2.91E-04	2.95E-04	1.37E-01	1.34E-06	1.12E-05	0.00E+00	5.40E-06
2030	Annual	Mon-Sun	2.27E+09	Trenchers	D	750	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	1.84E-02	3.15E-02	8.36E-01	4.06E-06	1.97E-05	2.03E-05	9.24E-03	9.29E-08	7.64E-07	0.00E+00	3.66E-07
2030	Annual	Mon-Sun	2.27E+09	Bore/Drill F	D	15	Constructic	U	P	NHH	P	Monterey	NCC	MBU	1.00E-01	2.23E-01	1.05E-01	1.34E-06	7.04E-06	8.41E-06	1.15E-03	1.79E-08	3.29E-07	0.00E+00	1.21E-07
2030	Annual	Mon-Sun	2.27E+09	Bore/Drill F	D	25	Constructic	U	P	NHH	P	Monterey	NCC	MBU	3.01E-01	6.70E-01	4.87E-01	6.45E-06	2.20E-05	4.08E-05	5.35E-03	6.79E-08	1.52E-06	0.00E+00	5.82E-07
2030	Annual	Mon-Sun	2.27E+09	Bore/Drill F	D	50	Constructic	U	P	NHH	P	Monterey	NCC	MBU	1.31E+00	3.02E+00	4.27E+00	2.87E-05	3.32E-04	2.49E-04	4.68E-02	6.05E-07	1.11E-06	0.00E+00	2.59E-06
2030	Annual	Mon-Sun	2.27E+09	Bore/Drill F	D	120	Constructic	U	P	NHH	P	Monterey	NCC	MBU	4.03E+00	9.26E+00	3.25E+01	1.15E-04	2.16E-03	8.89E-04	3.57E-01	4.19E-06	8.04E-06	0.00E+00	1.04E-05
2030	Annual	Mon-Sun	2.27E+09	Bore/Drill F	D	175	Constructic	U	P	NHH	P	Monterey	NCC	MBU	9.33E-01	2.14E+00	1.37E+01	3.39E-05	8.07E-04	7.42E-05	1.51E-01	1.70E-06	2.81E-06	0.00E+00	3.06E-06
2030	Annual	Mon-Sun	2.27E+09	Bore/Drill F	D	250	Constructic	U	N	NHH	P	Monterey	NCC	MBU	8.03E-01	1.84E+00	1.57E+01	3.87E-05	3.15E-04	8.37E-05	1.73E-01	1.95E-06	3.06E-06	0.00E+00	3.49E-06
2030	Annual	Mon-Sun	2.27E+09	Bore/Drill F	D	500	Constructic	U	N	NHH	P	Monterey	NCC	MBU	1.79E+00	4.10E+00	5.76E+01	1.43E-04	1.13E-03	3.08E-04	6.38E-01	6.26E-06	1.13E-05	0.00E+00	1.29E-05
2030	Annual	Mon-Sun	2.27E+09	Bore/Drill F	D	750	Constructic	U	N	NHH	P	Monterey	NCC	MBU	2.85E-01	6.54E-01	1.82E+01	4.49E-05	3.56E-04	9.71E-05	2.01E-01	2.02E-06	3.55E-06	0.00E+00	4.05E-06
2030	Annual	Mon-Sun	2.27E+09	Bore/Drill F	D	1000	Constructic	U	N	NHH	P	Monterey	NCC	MBU	4.78E-01	1.10E+00	4.59E+01	1.14E-04	8.99E-04	2.12E-03	5.08E-01	5.11E-06	1.90E-05	0.00E+00	1.03E-05
2030	Annual	Mon-Sun	2.27E+09	Excavators	D	25	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	3.71E-01	1.42E+00	1.06E+00	1.41E-05	4.81E-05	8.90E-05	1.17E-02	1.48E-07	3.33E-06	0.00E+00	1.27E-06
2030	Annual	Mon-Sun	2.27E+09	Excavators	D	50	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	1.40E+01	5.41E+01	6.21E+01	7.16E-04	6.32E-03	4.04E-03	6.76E-01	8.74E-06	4.53E-05	0.00E+00	6.46E-05
2030	Annual	Mon-Sun	2.27E+09	Excavators	D	120	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	3.80E+01	1.47E+02	4.93E+02	2.86E-03	3.62E-02	1.59E-02	5.40E+00	6.34E-05	3.28E-04	0.00E+00	2.58E-04
2030	Annual	Mon-Sun	2.27E+09	Excavators	D	175	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	7.32E+01	2.83E+02	1.45E+03	5.98E-03	9.40E-02	1.47E-02	1.59E+01	1.79E-04	6.43E-04	0.00E+00	5.40E-04
2030	Annual	Mon-Sun	2.27E+09	Excavators	D	250	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	2.98E+01	1.15E+02	8.27E+02	3.27E-03	1.84E-02	7.28E-03	9.14E+00	1.03E-04	2.62E-04	0.00E+00	2.95E-04
2030	Annual	Mon-Sun	2.27E+09	Excavators	D	500	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	2.15E+01	8.32E+01	8.78E+02	3.46E-03	1.86E-02	7.40E-03	9.71E+00	9.53E-05	2.75E-04	0.00E+00	3.12E-04
2030	Annual	Mon-Sun	2.27E+09	Excavators	D	750	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	1.44E-01	5.57E-01	9.75E+00	3.84E-05	2.07E-04	8.29E-05	1.08E-01	1.08E-06	3.06E-06	0.00E+00	3.47E-06
2030	Annual	Mon-Sun	2.27E+09	Concrete/Ir	D	25	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	4.01E-02	6.52E-02	4.89E-02	6.47E-07	2.21E-06	4.09E-06	5.36E-04	6.81E-09	1.53E-07	0.00E+00	5.84E-08
2030	Annual	Mon-Sun	2.27E+09	Concrete/Ir	D	50	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	3.51E-01	5.59E-01	7.70E-01	6.07E-06	6.23E-05	4.78E-05	8.43E-03	1.09E-07	6.17E-07	0.00E+00	5.48E-07
2030	Annual	Mon-Sun	2.27E+09	Concrete/Ir	D	120	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	6.12E-01	9.74E-01	3.28E+00	1.40E-05	2.21E-04	1.06E-04	3.61E-02	4.23E-07	2.33E-06	0.00E+00	1.27E-06
2030	Annual	Mon-Sun	2.27E+09	Concrete/Ir	D	175	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	2.01E-02	3.19E-02	2.32E-01	7.34E-07	1.38E-05	2.65E-06	2.55E-03	2.87E-08	1.14E-07	0.00E+00	6.63E-08
2030	Annual	Mon-Sun	2.27E+09	Cement an	D	15	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	5.13E+00	4.22E+00	1.22E+00	1.55E-05	8.13E-05	9.71E-05	1.33E-02	2.07E-07	3.79E-06	0.00E+00	1.40E-06
2030	Annual	Mon-Sun	2.27E+09	Cement an	D	25	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	4.62E-01	3.80E-01	3.03E-01	4.02E-06	1.37E-05	2.54E-05	3.33E-03	4.23E-08	9.55E-07	0.00E+00	3.63E-07
2030	Annual	Mon-Sun	2.27E+09	Cranes	D	50	Constructic	U	P	NHH	P	Monterey	NCC	MBU	3.41E-01	1.20E+00	1.27E+00	1.67E-05	1.31E-04	8.77E-05	1.38E-02	1.79E-07	1.83E-06	0.00E+00	1.50E-06
2030	Annual	Mon-Sun	2.27E+09	Cranes	D	120	Constructic	U	P	NHH	P	Monterey	NCC	MBU	3.74E+00	1.31E+01	3.00E+01	1.98E-04	2.20E-03	1.15E-03	3.29E-01	3.85E-06	3.91E-05	0.00E+00	1.79E-05
2030	Annual	Mon-Sun	2.27E+09	Cranes	D	175	Constructic	U	P	NHH	P	Monterey	NCC	MBU	3.74E+00	1.31E+01	4.79E+01	2.34E-04	3.11E-03	8.48E-04	5.26E-01	5.92E-06	3.92E-05	0.00E+00	2.12E-05
2030	Annual	Mon-Sun	2.27E+09	Cranes	D	250	Constructic	U	N	NHH	P	Monterey	NCC	MBU	7.26E+00	2.54E+01	1.29E+02	5.62E-04	2.88E-03	1.87E-03	1.42E+00	1.60E-05	6.14E-05	0.00E+00	5.07E-05
2030	Annual	Mon-Sun	2.27E+09

2030	Annual	Mon-Sun	2.27E+09	Skid Steer L	D	120	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	9.16E+01	2.13E+02	4.14E+02	1.71E-03	2.83E-02	1.18E-02	4.54E+00	5.33E-05	1.37E-04	0.00E+00	1.54E-04
2030	Annual	Mon-Sun	2.27E+09	Off-Highwa	D	120	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	1.00E-02	3.04E-02	1.30E-01	1.30E-06	9.89E-06	7.41E-06	1.43E-03	1.67E-08	4.39E-07	0.00E+00	1.17E-07
2030	Annual	Mon-Sun	2.27E+09	Off-Highwa	D	175	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	1.23E+01	3.72E+01	2.21E+02	1.59E-03	1.47E-02	8.15E-03	2.42E+00	2.73E-05	4.43E-04	0.00E+00	1.44E-04
2030	Annual	Mon-Sun	2.27E+09	Off-Highwa	D	250	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	1.16E+01	3.52E+01	2.08E+02	1.27E-03	5.19E-03	6.90E-03	2.29E+00	2.58E-05	2.60E-04	0.00E+00	1.15E-04
2030	Annual	Mon-Sun	2.27E+09	Off-Highwa	D	750	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	1.54E+00	4.66E+00	1.20E+02	7.08E-04	3.15E-03	3.69E-03	1.32E+00	1.33E-05	1.40E-04	0.00E+00	6.39E-05
2030	Annual	Mon-Sun	2.27E+09	Off-Highwa	D	1000	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	1.62E-01	4.92E-01	1.81E+01	1.12E-04	4.96E-04	1.25E-03	2.00E-01	2.01E-06	2.75E-05	0.00E+00	1.01E-05
2030	Annual	Mon-Sun	2.27E+09	Dumpers/T	D	25	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	2.41E-01	4.37E-01	1.52E-01	2.01E-06	6.86E-06	1.27E-05	1.67E-03	2.11E-08	4.74E-07	0.00E+00	1.81E-07
2030	Annual	Mon-Sun	2.27E+09	Other Cons	D	15	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	3.32E+00	6.29E+00	2.90E+00	3.69E-05	1.94E-04	2.31E-04	3.17E-02	4.94E-07	9.04E-06	0.00E+00	3.33E-06
2030	Annual	Mon-Sun	2.27E+09	Other Cons	D	25	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	5.62E-01	1.06E+00	6.40E-01	8.47E-06	2.89E-05	5.35E-05	7.02E-03	8.91E-08	2.00E-06	0.00E+00	7.64E-07
2030	Annual	Mon-Sun	2.27E+09	Other Cons	D	50	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	8.63E-01	1.65E+00	2.11E+00	1.74E-05	1.78E-04	1.30E-04	2.31E-02	2.99E-07	1.25E-06	0.00E+00	1.57E-06
2030	Annual	Mon-Sun	2.27E+09	Other Cons	D	120	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	1.43E+00	2.73E+00	1.00E+01	4.37E-05	6.86E-04	3.06E-04	1.10E-01	1.29E-06	5.32E-06	0.00E+00	3.94E-06
2030	Annual	Mon-Sun	2.27E+09	Other Cons	D	175	Constructic	U	P	NHH	NP	Monterey	NCC	MBU	1.97E+00	3.76E+00	1.82E+01	5.70E-05	1.10E-03	1.62E-04	2.00E-01	2.25E-06	6.88E-06	0.00E+00	5.15E-06
2030	Annual	Mon-Sun	2.27E+09	Other Cons	D	500	Constructic	U	N	NHH	NP	Monterey	NCC	MBU	4.57E+00	8.74E+00	1.00E+02	3.02E-04	2.01E-03	7.65E-04	1.11E+00	1.09E-05	2.79E-05	0.00E+00	2.72E-05
2030	Annual	Mon-Sun	2.27E+09	Aerial Lifts	D	15	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	2.32E+00	2.54E+00	1.00E+00	1.28E-05	6.71E-05	8.01E-05	1.10E-02	1.71E-07	3.13E-06	0.00E+00	1.15E-06
2030	Annual	Mon-Sun	2.27E+09	Aerial Lifts	D	25	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	3.79E+00	4.15E+00	2.07E+00	2.74E-05	9.35E-05	1.73E-04	2.27E-02	2.88E-07	6.49E-06	0.00E+00	2.47E-06
2030	Annual	Mon-Sun	2.27E+09	Aerial Lifts	D	50	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	1.39E+01	1.46E+01	1.30E+01	8.48E-05	9.46E-04	7.87E-04	1.43E-01	1.85E-06	9.81E-06	0.00E+00	7.65E-06
2030	Annual	Mon-Sun	2.27E+09	Aerial Lifts	D	120	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	1.23E+01	1.29E+01	2.24E+01	8.12E-05	1.45E-03	7.13E-04	2.46E-01	2.88E-06	1.53E-05	0.00E+00	7.32E-06
2030	Annual	Mon-Sun	2.27E+09	Aerial Lifts	D	500	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.57E+00	1.66E+00	1.59E+01	3.91E-05	3.06E-04	1.47E-04	1.76E-01	1.73E-06	4.96E-06	0.00E+00	3.52E-06
2030	Annual	Mon-Sun	2.27E+09	Aerial Lifts	D	750	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.27E-01	1.33E-01	2.32E+00	5.69E-06	4.45E-05	2.16E-05	2.56E-02	2.58E-07	7.26E-07	0.00E+00	5.13E-07
2030	Annual	Mon-Sun	2.27E+09	Forklifts	D	50	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	4.20E+00	2.07E+01	1.39E+01	1.50E-04	1.40E-03	8.88E-04	1.52E-01	1.96E-06	6.26E-06	0.00E+00	1.35E-05
2030	Annual	Mon-Sun	2.27E+09	Forklifts	D	120	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	6.59E+00	3.25E+01	4.62E+01	2.51E-04	3.38E-03	1.38E-03	5.07E-01	5.95E-06	1.86E-05	0.00E+00	2.26E-05
2030	Annual	Mon-Sun	2.27E+09	Forklifts	D	175	Industrial E	U	P	NHH	NP	Monterey	NCC	MBU	6.62E+00	3.27E+01	8.33E+01	3.19E-04	5.40E-03	6.21E-04	9.15E-01	1.03E-05	2.49E-05	0.00E+00	2.88E-05
2030	Annual	Mon-Sun	2.27E+09	Forklifts	D	250	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	6.57E+00	3.24E+01	1.13E+02	4.27E-04	2.51E-03	7.45E-04	1.25E+00	1.41E-05	2.79E-05	0.00E+00	3.85E-05
2030	Annual	Mon-Sun	2.27E+09	Forklifts	D	500	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	2.81E+00	1.39E+01	6.96E+01	2.63E-04	1.47E-03	4.59E-04	7.69E-01	7.55E-06	1.72E-05	0.00E+00	2.37E-05
2030	Annual	Mon-Sun	2.27E+09	Sweepers/S	D	15	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	3.08E-01	5.49E-01	2.99E-01	3.40E-06	2.00E-05	2.39E-05	3.28E-03	5.10E-08	9.33E-07	0.00E+00	3.07E-07
2030	Annual	Mon-Sun	2.27E+09	Sweepers/S	D	25	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	3.08E-01	5.49E-01	4.90E-01	6.49E-06	2.22E-05	4.10E-05	5.38E-03	6.83E-08	1.53E-06	0.00E+00	5.86E-07
2030	Annual	Mon-Sun	2.27E+09	Sweepers/S	D	50	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	6.00E+00	2.01E+01	2.90E+01	2.83E-04	2.75E-03	1.83E-03	3.17E-01	4.09E-06	1.47E-05	0.00E+00	2.55E-05
2030	Annual	Mon-Sun	2.27E+09	Sweepers/S	D	120	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	9.93E+00	3.32E+01	1.14E+02	5.70E-04	8.11E-03	3.43E-03	1.25E+00	1.46E-05	5.06E-05	0.00E+00	5.14E-05
2030	Annual	Mon-Sun	2.27E+09	Sweepers/S	D	175	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	4.57E+00	1.53E+01	9.67E+01	3.48E-04	6.12E-03	7.95E-04	1.06E+00	1.20E-05	3.25E-05	0.00E+00	3.14E-05
2030	Annual	Mon-Sun	2.27E+09	Sweepers/S	D	250	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	7.32E-01	2.45E+00	1.79E+01	6.32E-05	3.89E-04	1.28E-04	1.98E-01	2.23E-06	4.73E-06	0.00E+00	5.70E-06
2030	Annual	Mon-Sun	2.27E+09	Other Gene	D	15	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	8.09E-01	3.16E+00	9.22E-01	1.05E-05	6.17E-05	7.36E-05	1.01E-02	1.57E-07	2.88E-06	0.00E+00	9.45E-07
2030	Annual	Mon-Sun	2.27E+09	Other Gene	D	25	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.08E+00	4.24E+00	2.96E+00	3.92E-05	1.34E-04	2.48E-04	3.25E-02	4.12E-07	9.25E-06	0.00E+00	3.54E-06
2030	Annual	Mon-Sun	2.27E+09	Other Gene	D	50	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.34E+00	5.25E+00	5.23E+00	6.08E-05	5.31E-04	3.46E-04	5.70E-02	7.37E-07	4.78E-06	0.00E+00	5.49E-06
2030	Annual	Mon-Sun	2.27E+09	Other Gene	D	120	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	5.37E+00	2.10E+01	5.93E+01	3.52E-04	4.35E-03	2.01E-03	6.50E-01	7.63E-06	4.83E-05	0.00E+00	3.18E-05
2030	Annual	Mon-Sun	2.27E+09	Other Gene	D	175	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	5.39E+00	2.11E+01	9.18E+01	3.94E-04	5.96E-03	1.11E-03	1.01E+00	1.14E-05	4.95E-05	0.00E+00	3.56E-05
2030	Annual	Mon-Sun	2.27E+09	Other Gene	D	250	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	5.37E+00	2.10E+01	1.28E+02	5.21E-04	2.86E-03	1.32E-03	1.42E+00	1.60E-05	4.65E-05	0.00E+00	4.70E-05
2030	Annual	Mon-Sun	2.27E+09	Other Gene	D	500	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	5.35E+00	2.09E+01	2.51E+02	1.01E-03	5.31E-03	2.44E-03	2.77E+00	2.72E-05	8.96E-05	0.00E+00	9.15E-05
2030	Annual	Mon-Sun	2.27E+09	Other Gene	D	750	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.34E+00	5.23E+00	1.03E+02	4.18E-04	2.19E-03	1.01E-03	1.14E+00	1.15E-05	3.71E-05	0.00E+00	3.77E-05
2030	Annual	Mon-Sun	2.27E+09	Other Gene	D	1000	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	8.14E-01	3.18E+00	8.04E+01	3.31E-04	1.70E-03	4.15E-03	8.89E-01	8.94E-06	5.49E-05	0.00E+00	2.99E-05
2030	Annual	Mon-Sun	2.27E+09	Other Mate	D	50	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	3.85E-02	1.39E-01	1.94E-01	2.21E-06	1.94E-05	1.28E-05	2.11E-03	2.73E-08	1.76E-07	0.00E+00	2.00E-07
2030	Annual	Mon-Sun	2.27E+09	Other Mate	D	120	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	2.31E-01	8.35E-01	2.31E+00	1.35E-05	1.69E-04	7.80E-05	2.53E-02	2.97E-07	1.87E-06	0.00E+00	1.22E-06
2030	Annual	Mon-Sun	2.27E+09	Other Mate	D	175	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	2.48E-01	8.95E-01	4.97E+00	2.10E-05	3.21E-04	6.01E-05	5.46E-02	6.14E-07	2.67E-06	0.00E+00	1.90E-06
2030	Annual	Mon-Sun	2.27E+09	Other Mate	D	250	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	5.89E-01	2.13E+00	1.39E+01	5.57E-05	3.09E-04	1.43E-04	1.54E-01	1.73E-06	5.03E-06	0.00E+00	5.03E-06
2030	Annual	Mon-Sun	2.27E+09	Other Mate	D	500	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	1.10E-01	3.98E-01	3.44E+00	1.37E-05	7.26E-05	3.34E-05	3.81E-02	3.74E-07	1.23E-06	0.00E+00	1.24E-06
2030	Annual	Mon-Sun	2.27E+09	Other Mate	D	9999	Industrial E	U	N	NHH	NP	Monterey	NCC	MBU	3.30E-02	1.19E-01	4.00E+00	1.69E-05	8.43E-05	2.06E-04	4.42E-02	4.34E-07	2.71E-06	0.00E+00	1.52E-06
2030	Annual	Mon-Sun	2.27E+09	Leaf Blowe	D	15	Lawn and G	U	N	NHH	P	Monterey	NCC	MBU	8.80E-02	2.89E-02	3.97E-03	4.51E-08	2.65E-07	3.17E-07	4.35E-05	6.77E-10	1.24E-08	0.00E+00	4.07E-09
2030	Annual	Mon-Sun	2.27E+09	Leaf Blowe	D	120	Lawn and G	U	N	NHH	P	Monterey	NCC	MBU	7.70E-02	2.53E-02	5.59E-02	1.38E-07	3.41E-06	1.72E-06	6.15E-04	7.21E-09	3.05E-08	0.00E+00	1.25E-08
2030	Annual	Mon-Sun	2.27E+09	Leaf Blowe	D	250	Lawn and G	U	N	NHH	P	Monterey	NCC	MBU	2.20E-02	7.23E-03	3.27E-02	5.46E-08	6.04E-07	3.07E-07	3.62E-04	4.08E-09	9.12E-09	0.00E+00	4.92E-09
2030	Annual	Mon-Sun	2.27E+09	Lawn & Ga	D	15	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	2.12E+02	3.16E+02	1.34E+02	1.52E-03	8.97E-03	1.07E-02	1.47E+00	2.29E-05	4.18E-04	0.00E+00	1.37E-04
2030	Annual	Mon-Sun	2.27E+09	Lawn & Ga	D	25	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	1.66E+02	2.48E+02	1.61E+02	2.13E-03	7.28E-03	1.35E-02	1.77E+00	2.24E-05	5.04E-04	0.00E+00	1.92E-04
2030	Annual	Mon-Sun	2.27E+09	Chippers/St	D	25	Lawn and G	U	P	NHH	P	Monterey	NCC	MBU	9.90E-02	1.26E-01	1.16E-01	1.53E-06	5.22E-06	9.67E-06	1.27E-03	1.61E-08	3.61E-07	0.00E+00	1.38E-07
2030	Annual	Mon-Sun	2.27E+09	Chippers/St	D	120	Lawn and G	U	P	NHH	P	Monterey	NCC	MBU	2.73E+00	3.47E+00	1.20E+01	4.76E-05	7.91E-04	3.89E-04	1.32E-01	1.55E-06	8.95E-06	0.00E+00	4.30E-06
2030	Annual	Mon-Sun	2.27E+09	Chippers/St	D	175	Lawn and G	U	P	NHH	P	Monterey	NCC	MBU	1.87E-01	2.38E-01	1.43E+00	4.18E-06	8.31E-05	1.69E-05	1.57E-02	1.76E-07	7.25E-07	0.00E+00	3.77E-07
2030	Annual	Mon-Sun	2.27E+09	Chippers/St	D	250	Lawn and G	U	N	NHH	P	Monterey	NCC	MBU	4.40E-02	5.60E-02	5.63E-01	1.53E-06	1.12E-05	5.69E-06	6.23E-03	7.01E-08	1.90E-07	0.00E+00	1.38E-07
2030	Annual	Mon-Sun	2.27E+09	Chippers/St	D	500	Lawn and G	U	N	NHH	P	Monterey	NCC	MBU	4.07E-01	5.18E-01	5.78E+00	1.57E-05	1.13E-04	5.51E-05	6.40E-02	6.28E-07	1.92E-06	0.00E+00	1.41E-06
2030	Annual	Mon-Sun	2.27E+09	Chippers/St	D	750	Lawn and G	U	N	NHH	P	Monterey	NCC	MBU	4.62E-01	5.88E-01	1.58E+01	4.29E-05	3.08E-04	1.53E-04	1.75E-01	1.76E-06	5.29E-06	0.00E+00	3.87E-06
2030	Annual	Mon-Sun	2.27E+09	Chippers/St	D	1000	Lawn and G	U	N	NHH	P	Monterey	NCC	MBU	8.80E-01	1.12E+00	4.28E+01	1.18E-04	8.34E-04	2.10E-03	4.74E-01	4.76E-06	2.56E-05	0.00E+00	1.07E-05
2030	Annual	Mon-Sun	2.27E+09	Commercia	D	15	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	5.34E+00	1.56E+01	6.89E+00	7.82E-05	4.61E-04	5.50E-04	7.54E-02	1.17E-06	2.15E-05	0.00E+00	7.06E-06
2030	Annual	Mon-Sun	2.27E+09	Commercia	D	25	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	1.00E+02	2.94E+02	1.94E+02	2.57E-03	8.76E-03	1.62E-02	2.13E+00	2.70E-05	6.06E-04	0.00E+00	2.31E-04
2030	Annual	Mon-Sun	2.27E+09	Other Lawr	D	15	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	7.70E-02	9.13E-02	5.09E-02	5.78E-07	3.41E-06	4.07E-06	5.58E-04	8.68E-09	1.59E-07	0.00E+00	5.22E-08
2030	Annual	Mon-Sun	2.27E+09	Other Lawr	D	25	Lawn and G	U	N	NHH	NP	Monterey	NCC	MBU	1.10E-02	1.30E-02	9.68E-03	1.28E-07	4.37E-07	8.10E-07	1.06E-04	1.35E-09	3.03E-08	0.00E+00	1.16E-08
2030	Annual	Mon-Sun	2.27E+09	Agricultura	D	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.82E+02	5.58E+02	2.68E+02	3.42E-03	1.79E-02	2.14E-02	2.93E+00	4.57E-05	8.36E-04	0.00E+00	3.08E-04
2030	Annual	Mon-Sun	2.27E+09	Agricultura	D	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.71E+02	6.88E+02	6.32E+02	8.37E-03	2.86E-02	5.29E-02	6.94E+00	8.80E-05	1.98E-03	0.00E+00	7.55E-04
2030	Annual	Mon-Sun	2.27E+09	Agricultura	D	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.10E+03	1.43E+03	2.24E+03	1.67E-02	1.73E-01	1.38E-01	2.45E+01	3.17E-04	1.96E-03	0.00E+00	1.50E-03
2030	Annual	Mon-Sun	2.27E+09	Agricultura	D	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.27E+03	1.66E+03	5.49E+03	2.25E-02	3.63E-01	1.81E-01	6.03E+01	7.07E-04	4.26E-03	0.00E+00	2.03E-03
2030	Annual	Mon-Sun	2.27E+09	Agricultura	D	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	7.16E+02	9.33E+02	5.28E+03	1.61E-02	3.09E-01	6.60E-02	5.81E+01	6.53E-04	2.75E-03	0.00E+00	1.45E-03
2030	Annual	Mon-Sun	2.27E+09	Agricultura	D	250	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	4.62E+02	6.02E+02	4.85E+03	1.36E-02	9.73E-02	5.08E-02	5.36E+01	6.03E-04	1.68E-03	0.00E+00	1.23E-03
2030	Annual	Mon-Sun	2.27E+09	Agricultura	D	500	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	9.18E+01	1.20E+02	1.57E+03	4.39E-03	3.07E-02	1.55E-02	1.74E+01	1.71E-04	5.36E-04	0.00E+00	3.96E-04
2030	Annual	Mon-Sun	2.27E+09	Combines	D	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	2.68E+01	1.10E+01	4.75E+01	1.26E-04	2.92E-03	1.49E-03	5.23E-01	6.13E-06	2.76E-05	0.00E+00	1.14E-05
2030	Annual	Mon-Sun	2.27E+09	Combines	D	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.98E+01	1.64E+01	9.27E+01	1.80E-04	5.03E-03	1.08E-03	1.02E+00	1.15E-05	3.70E-05	0.00E+00	1.62E-05
2030	Annual	Mon-Sun	2.27E+09	Combines	D	250	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	4.26E+01	1.75E+01	1.39E+02	2.47E-04	2.58E-03	1.36E-03	1.54E+00	1.73E-05	4.00E-05	0.00E+00	2.23E-05
2030	Annual	Mon-Sun	2.27E+09	Combines	D	500	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	1.70E+00	7.00E-01	7.62E+00	1.34E-05	1.41E-04	7.06E-05	8.44E-02	8.28E-07	2.17E-06	0.00E+00	1.21E-06
2030	Annual	Mon-Sun	2.27E+09	Balers	D	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	5.07E-02	1.32E-02	2.18E-02	8.07E-08	1.27E-06	1.26E-06	2.40E-04	3.11E-09	1.28E-08	0.00E+00	7.28E-09
2030	Annual	Mon-Sun	2.27E+09	Balers	D	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	3.57E+01	9.31E+00	2.31E+01	5.54E-05	1.40E-03	7.15E-04	2.54E-01	2.98E-06	1.26E-05	0.00E+00	5.00E-06
2030	Annual	Mon-Sun	2.27E+09	Agricultura	D	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.67E+00	1.67E+00	2.66E+00	9.59E-06	1.72E-04	8.61E-05	2.92E-02	3.43E-07	1.91E-06	0.00E+00	8.66E-07
2030	Annual	Mon-Sun	2.27E+09	Sprayers	D	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	7.87E+00	2.37E+00	1.29E+00	1.71E-05	5.82E-05	1.08E-04	1.41E-02	1.79E-07	4.13E-06	0.00E+00	1.54E-06
2030	Annual	Mon-Sun	2.27E+09	Sprayers	D	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.78E+00	4.39E-01	4.50E-01	1.64E-06	2.60E-05	2.59E-05	4.95E-03	6.39E-08	2.61E-07	0.00E+00	1.48E-07
2030	Annual	Mon-Sun	2.27E+09	Sprayers	D	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.70E+01	4.20E+00	1.09E+01	2.59E-05	6.58E-04	3.37E-04	1.20E-01	1.40E-06	5.90E-06	0.00E+00	2.33E-06
2030	Annual	Mon-Sun	2.27E+09	Sprayers	D	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	7.16E+00	1.77E+00	7.59E+00	1.31E-05	4.06E-04	8.72E-05	8.36E-02	9.40E-07	2.85E-06	0.00E+00	1.19E-06
2030	Annual	Mon-Sun	2.27E+09	Sprayers	D	250	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	4.47E+00	1.10E+00	7.74E+00	1.23E-05	1.42E-04	7.46E-05	8.57E-02	9.64E-07	2.15E-06	0.00E+00	1.11E-06
2030	Annual	Mon-Sun	2.27E+09	Sprayers	D	500	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	7.61E-01	1.88E-01	1.44E+00	2.26E-06	2.63E-05	1.32E-05	1.60E-02	1.57E-07	3.95E-07	0.00E+00	2.04E-07
2030	Annual	Mon-Sun	2.27E+09	Tillers	D	15	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	1.78E-01	1.28E-01	4.00E-02	4.55E-07	2.68E-06	3.20E-06	4.38E-04	6.82E-09	1.25E-07	0.00E+00	4.10E-08
2030	Annual	Mon-Sun	2.27E+09	Tillers	D	250	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	2.54E-02	1.20E-02	1.30E-01	2.40E-07	2.42E-06	1.27E-06	1.43E-03	1.61E-08	3.79E-08	0.00E+00	2.16E-08
2030	Annual	Mon-Sun	2.27E+09	Tillers	D	500	Agricultura	U	N	NHH	NP	Monterey	NCC	MBU	7.61E-02	3.59E-02	6.93E-01	1.27E-06	1.28E-05	6.45E-06	7.67E-03	7.53E-08	2.00E-07	0.00E+00	1.14E-07
2030	Annual	Mon-Sun	2.27E+09	Swathers	D	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.93E+02	5.83E+01	1.42E+02	3.52E-04	8.66E-03	4.43E-03	1.57E+00	1.84E-05	7.91E-05	0.00E+00	3.17E-05
2030	Annual	Mon-Sun	2.27E+09	Swathers	D	175	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.73E+00	5.21E-01	2.44E+00	4.40E-06	1.31E-04	2.82E-05	2.69E-02	3.03E-07	9.38E-07	0.00E+00	3.97E-07
2030	Annual	Mon-Sun	2.27E+09	Hydro Pow	D	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.47E+00	3.29E+00	9.03E-01	1.15E-05	6.03E-05	7.20E-05	9.88E-03	1.54E-07	2.82E-06	0.00E+00	1.04E-06
2030	Annual	Mon-Sun	2.27E+09	Hydro Pow	D	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.44E+00	9.92E+00	5.16E+00	6.84E-05	2.33E-04	4.32E-04	5.67E-02	7.19E-07	1.61E-05	0.00E+00	6.17E-06
2030	Annual	Mon-Sun	2.27E+09	Hydro Pow	D	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.97E+00	1.08E+01	1.04E+01	1.01E-04	9.37E-04	6.70E-04	1.13E-01	1.47E-06	9.84E-06	0.00E+00	9.09E-06
2030	Annual	Mon-Sun	2.27E+09	Hydro Pow	D	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.57E-01	9.90E-01	1.90E+00	9.72E-06	1.33E-04	6.42E-05	2.08E-02	2.44E-07	1.58E-06	0.00E+00	8.77E-07
2030	Annual	Mon-Sun	2.27E+09	Other Agric	D	15	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	5.38E+00	6.58E+00	2.31E+00	2.94E-05	1.54E-04	1.84E-04	2.52E-02	3.93E-07	7.19E-06	0.00E+00	2.65E-06
2030	Annual	Mon-Sun	2.27E+09	Other Agric	D	25	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.50E+01	1.83E+01	1.17E+01	1.55E-04	5.30E-04	9.82E-04	1.29E-01	1.63E-06	3.67E-05	0.00E+00	1.40E-05
2030	Annual	Mon-Sun	2.27E+09	Other Agric	D	50	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	1.31E+01	1.37E+01	1.60E+01	1.05E-04	1.16E-03	9.71E-04	1.75E-01	2.26E-06	1.30E-05	0.00E+00	9.48E-06
2030	Annual	Mon-Sun	2.27E+09	Other Agric	D	120	Agricultura	U	P	NHH	NP	Monterey	NCC	MBU	4.42E+01	4.62E+01	1.07E+02	3.97E-04	6.97E-03	3.49E-03	1.18E+00	1.39E-05	7.85E-05	0.00E+

2030	Annual	Mon-Sun	2.27E+09	Forklift	D	175	Airport Grc	U	P	NHH	NP	Monterey	NCC	MBU	3.11E-01	6.33E-01	1.68E+00	5.80E-06	1.03E-04	1.88E-05	1.85E-02	2.08E-07	8.22E-07	0.00E+00	5.23E-07
2030	Annual	Mon-Sun	2.27E+09	Fuel Truck	D	250	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.67E-01	2.87E-01	7.66E-01	2.30E-06	1.57E-05	7.29E-06	8.47E-03	9.53E-08	2.52E-07	0.00E+00	2.08E-07
2030	Annual	Mon-Sun	2.27E+09	Ground Pov	D	175	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	2.49E+00	6.62E+00	4.62E+01	1.65E-04	2.88E-03	4.50E-04	5.08E-01	5.71E-06	1.95E-05	0.00E+00	1.49E-05
2030	Annual	Mon-Sun	2.27E+09	Lav Truck	D	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	3.98E-02	1.43E-01	3.41E-01	1.40E-06	2.19E-05	3.86E-06	3.74E-03	4.21E-08	1.73E-07	0.00E+00	1.26E-07
2030	Annual	Mon-Sun	2.27E+09	Lift	D	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	4.14E-01	8.99E-01	2.95E+00	1.42E-05	2.05E-04	9.57E-05	3.24E-02	3.80E-07	2.11E-06	0.00E+00	1.29E-06
2030	Annual	Mon-Sun	2.27E+09	Other GSE	D	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	7.40E-01	1.87E+00	7.50E+00	4.11E-05	4.78E-04	1.89E-04	8.24E-02	1.07E-06	9.69E-06	0.00E+00	3.71E-06
2030	Annual	Mon-Sun	2.27E+09	Passenger S	D	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	6.37E-02	1.22E-02	4.12E-02	9.01E-08	2.48E-06	1.23E-06	4.54E-04	5.32E-09	1.90E-08	0.00E+00	8.13E-09
2030	Annual	Mon-Sun	2.27E+09	Sweeper	D	120	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.83E-01	1.45E-01	2.16E-01	5.43E-07	1.35E-05	5.91E-06	2.38E-03	2.68E-08	5.49E-08	0.00E+00	4.90E-08
2030	Annual	Mon-Sun	2.27E+09	Generator	D	120	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	1.19E-01	5.34E-01	2.00E+00	1.19E-05	1.47E-04	6.67E-05	2.19E-02	2.47E-07	1.52E-06	0.00E+00	1.07E-06
2030	Annual	Mon-Sun	2.27E+09	Generator	D	175	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	6.53E-01	2.92E+00	2.06E+01	8.80E-05	1.34E-03	2.34E-04	2.26E-01	2.54E-06	1.06E-05	0.00E+00	7.94E-06
2030	Annual	Mon-Sun	2.27E+09	Generator	D	250	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	6.77E-01	3.03E+00	3.06E+01	1.25E-04	6.85E-04	3.00E-04	3.39E-01	3.81E-06	1.08E-05	0.00E+00	1.13E-05
2030	Annual	Mon-Sun	2.27E+09	Generator	D	500	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	7.17E-02	3.21E-01	5.14E+00	2.09E-05	1.09E-04	4.79E-05	5.69E-02	6.40E-07	1.79E-06	0.00E+00	1.89E-06
2030	Annual	Mon-Sun	2.27E+09	Generator	D	750	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	9.55E-02	4.27E-01	1.11E+01	4.51E-05	2.35E-04	1.04E-04	1.22E-01	1.38E-06	3.87E-06	0.00E+00	4.07E-06
2030	Annual	Mon-Sun	2.27E+09	Service Tru	D	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	2.63E-01	3.64E-01	7.20E-01	2.10E-06	4.21E-05	7.90E-06	7.92E-03	8.91E-08	3.37E-07	0.00E+00	1.89E-07
2030	Annual	Mon-Sun	2.27E+09	Catering Tr	D	250	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	6.37E-02	6.47E-02	4.57E-01	8.89E-07	8.75E-06	2.70E-06	5.06E-03	5.69E-08	9.08E-08	0.00E+00	8.02E-08
2030	Annual	Mon-Sun	2.27E+09	Hydrant Tru	D	175	Airport Grc	U	N	NHH	NP	Monterey	NCC	MBU	1.27E-01	2.18E-01	1.52E+00	5.37E-06	9.15E-05	2.07E-05	1.67E-02	1.88E-07	9.00E-07	0.00E+00	4.84E-07
2030	Annual	Mon-Sun	2.27E+09	Compresso	D	120	Airport Grc	U	P	NHH	P	Monterey	NCC	MBU	3.98E-02	8.89E-02	2.31E-01	1.13E-06	1.61E-05	7.51E-06	2.54E-03	2.98E-08	1.66E-07	0.00E+00	1.02E-07
2030	Annual	Mon-Sun	2.27E+09	Compresso	D	250	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	7.96E-03	1.78E-02	9.38E-02	3.15E-07	1.98E-06	9.01E-07	1.04E-03	1.17E-08	3.16E-08	0.00E+00	2.84E-08
2030	Annual	Mon-Sun	2.27E+09	Compresso	D	500	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	3.18E-02	7.11E-02	7.73E-01	2.59E-06	1.57E-05	7.06E-06	8.55E-03	8.39E-08	2.57E-07	0.00E+00	2.34E-07
2030	Annual	Mon-Sun	2.27E+09	Compresso	D	750	Airport Grc	U	N	NHH	P	Monterey	NCC	MBU	1.04E-01	2.31E-01	3.71E+00	1.24E-05	7.54E-05	3.43E-05	4.11E-02	4.13E-07	1.24E-06	0.00E+00	1.12E-06
2030	Annual	Mon-Sun	2.27E+09	Transport F	D	15	Transport F	U	N	NHH	NP	Monterey	NCC	MBU	2.09E+02	5.97E+02	2.18E+02	2.48E-03	1.46E-02	1.74E-02	2.39E+00	3.04E-05	6.81E-04	0.00E+00	2.24E-04
2030	Annual	Mon-Sun	2.27E+09	Transport F	D	25	Transport F	U	N	NHH	NP	Monterey	NCC	MBU	5.65E+01	1.61E+02	1.00E+02	1.32E-03	4.52E-03	8.37E-03	1.10E+00	1.39E-05	3.13E-04	0.00E+00	1.19E-04
2030	Annual	Mon-Sun	2.27E+09	Transport F	D	50	Transport F	U	N	NHH	NP	Monterey	NCC	MBU	1.73E+03	6.95E+03	8.23E+03	6.76E-02	7.09E-01	4.93E-01	9.00E+01	1.16E-03	2.38E-03	0.00E+00	6.10E-03
2030	Annual	Mon-Sun	2.27E+09	A/C unit	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	2.88E-01	2.37E-01	8.20E-01	2.73E-06	5.22E-05	2.63E-05	9.02E-03	1.06E-07	5.67E-07	0.00E+00	2.47E-07
2030	Annual	Mon-Sun	2.27E+09	A/C unit	D	250	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	1.20E-01	9.91E-02	7.00E-01	1.59E-06	1.35E-05	7.12E-06	7.75E-03	8.72E-08	2.26E-07	0.00E+00	1.43E-07
2030	Annual	Mon-Sun	2.27E+09	A/C unit	D	500	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	4.76E-02	3.92E-02	4.19E-01	9.42E-07	7.95E-06	4.02E-06	4.64E-03	4.56E-08	1.33E-07	0.00E+00	8.50E-08
2030	Annual	Mon-Sun	2.27E+09	Aircraft Sup	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	7.84E-02	6.46E-02	1.50E-01	5.00E-07	9.56E-06	4.81E-06	1.65E-03	1.94E-08	1.04E-07	0.00E+00	4.51E-08
2030	Annual	Mon-Sun	2.27E+09	Aircraft Sup	D	175	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	1.12E-01	9.22E-02	4.41E-01	1.08E-06	2.48E-05	5.29E-06	4.85E-03	5.46E-08	2.08E-07	0.00E+00	9.78E-08
2030	Annual	Mon-Sun	2.27E+09	Cart	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	3.36E-02	2.77E-02	7.66E-02	2.55E-07	4.88E-06	2.46E-06	8.42E-04	9.88E-09	5.30E-08	0.00E+00	2.30E-08
2030	Annual	Mon-Sun	2.27E+09	Cart	D	175	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	8.40E-03	6.92E-03	3.61E-02	8.88E-08	2.04E-06	4.34E-07	3.98E-04	4.48E-09	1.70E-08	0.00E+00	8.01E-09
2030	Annual	Mon-Sun	2.27E+09	Cart	D	250	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	2.80E-02	2.31E-02	1.54E-01	3.50E-07	2.98E-06	1.57E-06	1.71E-03	1.92E-08	4.98E-08	0.00E+00	3.15E-08
2030	Annual	Mon-Sun	2.27E+09	Communica	D	50	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	1.12E-02	9.22E-03	1.26E-02	7.32E-08	8.68E-07	7.58E-07	1.39E-04	1.79E-09	9.55E-09	0.00E+00	6.60E-09
2030	Annual	Mon-Sun	2.27E+09	Communica	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	1.68E-02	1.38E-02	3.78E-02	1.26E-07	2.41E-06	1.21E-06	4.16E-04	4.88E-09	2.62E-08	0.00E+00	1.14E-08
2030	Annual	Mon-Sun	2.27E+09	Compresso	D	50	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	1.12E-02	9.22E-03	1.55E-02	8.96E-08	1.06E-06	9.28E-07	1.70E-04	2.20E-09	1.17E-08	0.00E+00	8.09E-09
2030	Annual	Mon-Sun	2.27E+09	Compresso	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	4.23E-01	3.48E-01	8.45E-01	2.82E-06	5.38E-05	2.71E-05	9.29E-03	1.09E-07	5.84E-07	0.00E+00	2.54E-07
2030	Annual	Mon-Sun	2.27E+09	Compresso	D	175	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	1.12E-02	9.22E-03	5.26E-02	1.29E-07	2.96E-06	6.31E-07	5.79E-04	6.51E-09	2.48E-08	0.00E+00	1.17E-08
2030	Annual	Mon-Sun	2.27E+09	Compresso	D	250	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	2.24E-02	1.84E-02	1.40E-01	3.17E-07	2.70E-06	1.42E-06	1.55E-03	1.74E-08	4.51E-08	0.00E+00	2.86E-08
2030	Annual	Mon-Sun	2.27E+09	Compresso	D	500	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	7.84E-02	6.46E-02	8.18E-01	1.84E-06	1.55E-05	7.85E-06	9.05E-03	8.88E-08	2.60E-07	0.00E+00	1.66E-07
2030	Annual	Mon-Sun	2.27E+09	Crane	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	4.48E-02	3.69E-02	1.32E-01	3.08E-07	8.17E-06	3.49E-06	1.46E-03	1.71E-08	2.57E-08	0.00E+00	2.78E-08
2030	Annual	Mon-Sun	2.27E+09	Crane	D	175	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	8.40E-03	6.92E-03	3.33E-02	5.45E-08	1.82E-06	1.75E-07	3.67E-04	4.12E-09	5.96E-09	0.00E+00	4.92E-09
2030	Annual	Mon-Sun	2.27E+09	Crane	D	250	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	5.60E-03	4.61E-03	3.35E-02	5.49E-08	6.27E-07	1.72E-07	3.71E-04	4.17E-09	5.92E-09	0.00E+00	4.96E-09
2030	Annual	Mon-Sun	2.27E+09	Deicer	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	1.12E-02	9.22E-03	3.47E-02	1.16E-07	2.21E-06	1.11E-06	3.81E-04	4.47E-09	2.40E-08	0.00E+00	1.04E-08
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	50	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	7.56E-02	6.23E-02	8.10E-02	4.69E-07	5.56E-06	4.86E-06	8.89E-04	1.15E-08	6.12E-08	0.00E+00	4.23E-08
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	1.88E+00	1.55E+00	4.40E+00	1.47E-05	2.80E-04	1.41E-04	4.83E-02	5.67E-07	3.04E-06	0.00E+00	1.32E-06
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	175	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	1.51E+00	1.25E+00	6.26E+00	1.54E-05	3.53E-04	7.51E-05	6.89E-02	7.75E-07	2.95E-06	0.00E+00	1.39E-06
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	250	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	4.00E-01	3.30E-01	2.50E+00	5.66E-06	4.82E-05	2.54E-05	2.76E-02	3.11E-07	8.07E-07	0.00E+00	5.11E-07
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	500	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	1.62E-01	1.34E-01	1.58E+00	3.55E-06	2.99E-05	1.52E-05	1.75E-02	1.72E-07	5.03E-07	0.00E+00	3.20E-07
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	750	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	5.60E-03	4.60E-03	8.36E-02	1.88E-07	1.58E-06	8.13E-07	9.25E-04	9.30E-09	2.68E-08	0.00E+00	1.70E-08
2030	Annual	Mon-Sun	2.27E+09	Hydraulic u	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	1.88E-01	1.54E-01	5.02E-01	1.67E-06	3.20E-05	1.61E-05	5.52E-03	6.47E-08	3.47E-07	0.00E+00	1.51E-07
2030	Annual	Mon-Sun	2.27E+09	Lift (Militar	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	5.60E-03	4.61E-03	1.50E-02	4.99E-08	9.54E-07	4.80E-07	1.65E-04	1.93E-09	1.04E-08	0.00E+00	4.51E-09
2030	Annual	Mon-Sun	2.27E+09	Light	D	50	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	1.40E-02	1.15E-02	1.97E-02	1.14E-07	1.36E-06	1.18E-06	2.17E-04	2.80E-09	1.49E-08	0.00E+00	1.03E-08
2030	Annual	Mon-Sun	2.27E+09	Pressure W	D	175	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	8.40E-03	6.92E-03	3.59E-02	8.82E-08	2.02E-06	4.31E-07	3.95E-04	4.45E-09	1.69E-08	0.00E+00	7.96E-09
2030	Annual	Mon-Sun	2.27E+09	Pump (Mili	D	50	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	1.62E-01	1.34E-01	1.79E-01	1.03E-06	1.23E-05	1.07E-05	1.96E-03	2.53E-08	1.35E-07	0.00E+00	9.33E-08
2030	Annual	Mon-Sun	2.27E+09	Pump (Mili	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	1.26E-01	1.04E-01	3.55E-01	1.18E-06	2.26E-05	1.14E-05	3.90E-03	4.57E-08	2.45E-07	0.00E+00	1.07E-07
2030	Annual	Mon-Sun	2.27E+09	Start Cart	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	2.80E-03	2.31E-03	7.88E-03	2.63E-08	5.02E-07	2.53E-07	8.67E-05	1.02E-09	5.45E-09	0.00E+00	2.37E-09
2030	Annual	Mon-Sun	2.27E+09	Start Cart	D	500	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	2.80E-03	2.31E-03	2.22E-02	4.98E-08	4.20E-07	2.13E-07	2.45E-04	2.41E-09	7.05E-09	0.00E+00	4.49E-09
2030	Annual	Mon-Sun	2.27E+09	Test Stand	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	9.24E-02	7.61E-02	2.39E-01	7.98E-07	1.52E-05	7.67E-06	2.63E-03	3.09E-08	1.65E-07	0.00E+00	7.20E-08
2030	Annual	Mon-Sun	2.27E+09	Test Stand	D	175	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	5.60E-03	4.61E-03	2.24E-02	5.50E-08	1.26E-06	2.68E-07	2.46E-04	2.77E-09	1.05E-08	0.00E+00	4.96E-09
2030	Annual	Mon-Sun	2.27E+09	Test Stand	D	250	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	8.68E-02	7.15E-02	4.78E-01	1.08E-06	9.23E-06	4.86E-06	5.29E-03	5.95E-08	1.55E-07	0.00E+00	9.78E-08
2030	Annual	Mon-Sun	2.27E+09	Test Stand	D	500	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	3.36E-02	2.77E-02	3.22E-01	7.24E-07	6.11E-06	3.09E-06	3.57E-03	3.50E-08	1.03E-07	0.00E+00	6.53E-08
2030	Annual	Mon-Sun	2.27E+09	Welder	D	50	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	5.88E-02	4.84E-02	5.80E-02	3.36E-07	3.99E-06	3.48E-06	6.37E-04	8.23E-09	4.39E-08	0.00E+00	3.03E-08
2030	Annual	Mon-Sun	2.27E+09	Welder	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	1.62E-01	1.34E-01	2.84E-01	9.45E-07	1.81E-05	9.08E-06	3.12E-03	3.66E-08	1.96E-07	0.00E+00	8.53E-08
2030	Annual	Mon-Sun	2.27E+09	Other tacti	D	50	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	2.80E-03	2.31E-03	3.95E-03	2.29E-08	2.71E-07	2.37E-07	4.33E-05	5.60E-10	2.98E-09	0.00E+00	2.06E-09
2030	Annual	Mon-Sun	2.27E+09	Other tacti	D	120	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	4.48E-02	3.69E-02	9.97E-02	3.32E-07	6.35E-06	3.19E-06	1.10E-03	1.28E-08	6.89E-08	0.00E+00	3.00E-08
2030	Annual	Mon-Sun	2.27E+09	Other tacti	D	175	Military Tai	U	P	NHH	P	Monterey	NCC	MBU	4.48E-02	3.69E-02	1.86E-01	4.58E-07	1.05E-05	2.24E-06	2.05E-03	2.31E-08	8.78E-08	0.00E+00	4.13E-08
2030	Annual	Mon-Sun	2.27E+09	Other tacti	D	250	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	1.68E-02	1.38E-02	1.02E-01	2.32E-07	1.98E-06	1.04E-06	1.13E-03	1.28E-08	3.31E-08	0.00E+00	2.09E-08
2030	Annual	Mon-Sun	2.27E+09	Other tacti	D	500	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	5.60E-03	4.61E-03	4.23E-02	9.50E-08	8.01E-07	4.06E-07	4.68E-04	4.59E-09	1.35E-08	0.00E+00	8.57E-09
2030	Annual	Mon-Sun	2.27E+09	Other tacti	D	750	Military Tai	U	N	NHH	P	Monterey	NCC	MBU	2.80E-03	2.31E-03	4.90E-02	1.10E-07	9.29E-07	4.76E-07	5.43E-04	5.45E-09	1.57E-08	0.00E+00	9.96E-09
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	50	Entertainm	U	P	NHH	P	Monterey	NCC	MBU	4.95E-02	4.58E-02	9.10E-02	5.62E-07	6.43E-06	5.50E-06	9.98E-04	1.29E-08	7.16E-08	0.00E+00	5.07E-08
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	120	Entertainm	U	P	NHH	P	Monterey	NCC	MBU	1.21E+00	1.12E+00	4.54E+00	1.59E-05	2.92E-04	1.46E-04	4.99E-02	5.86E-07	3.25E-06	0.00E+00	1.44E-06
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	175	Entertainm	U	N	NHH	P	Monterey	NCC	MBU	1.00E+00	9.27E-01	6.29E+00	1.63E-05	3.57E-04	7.61E-05	6.92E-02	7.79E-07	3.06E-06	0.00E+00	1.47E-06
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	250	Entertainm	U	N	NHH	P	Monterey	NCC	MBU	1.55E+00	1.43E+00	1.28E+01	3.05E-05	2.49E-04	1.31E-04	1.41E-01	1.59E-06	4.22E-06	0.00E+00	2.75E-06
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	500	Entertainm	U	N	NHH	P	Monterey	NCC	MBU	2.40E+00	2.22E+00	2.77E+01	6.57E-05	5.29E-04	2.68E-04	3.07E-01	3.01E-06	9.02E-06	0.00E+00	5.93E-06
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	750	Entertainm	U	N	NHH	P	Monterey	NCC	MBU	4.21E-01	3.89E-01	9.54E+00	2.26E-05	1.82E-04	9.34E-05	1.06E-01	1.06E-06	3.12E-06	0.00E+00	2.04E-06
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	9999	Entertainm	U	N	NHH	P	Monterey	NCC	MBU	6.19E-02	5.72E-02	2.49E+00	6.39E-06	4.76E-05	1.22E-04	2.76E-02	2.78E-07	1.46E-06	0.00E+00	5.77E-07
2030	Annual	Mon-Sun	2.27E+09	Compresso	D	120	Entertainm	U	P	NHH	P	Monterey	NCC	MBU	1.24E-02	2.76E-02	4.39E-02	2.28E-07	3.08E-06	1.48E-06	4.82E-04	5.65E-09	3.72E-08	0.00E+00	2.05E-08
2030	Annual	Mon-Sun	2.27E+09	Compresso	D	120	Railyard Op	U	P	NHH	P	Monterey	NCC	MBU	2.48E-02	5.52E-02	8.17E-02	4.24E-07	5.74E-06	2.76E-06	8.97E-04	1.05E-08	6.93E-08	0.00E+00	3.83E-08
2030	Annual	Mon-Sun	2.27E+09	Crane (Rail	D	120	Railyard Op	U	P	NHH	P	Monterey	NCC	MBU	1.24E-02	2.76E-02	6.78E-02	3.52E-07	4.76E-06	2.29E-06	7.44E-04	8.72E-09	5.75E-08	0.00E+00	3.17E-08
2030	Annual	Mon-Sun	2.27E+09	Crane (Rail	D	175	Railyard Op	U	P	NHH	P	Monterey	NCC	MBU	3.71E-02	3.43E-02	1.07E-01	2.76E-07	6.07E-06	1.29E-06	1.18E-03	1.32E-08	5.20E-08	0.00E+00	2.49E-08
2030	Annual	Mon-Sun	2.27E+09	Materials H	D	120	Railyard Op	U	P	NHH	P	Monterey	NCC	MBU	1.24E-02	2.76E-02	7.44E-02	3.86E-07	5.23E-06	2.52E-06	8.16E-04	9.19E-09	6.31E-08	0.00E+00	3.48E-08
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	175	Railyard Op	U	P	NHH	P	Monterey	NCC	MBU	1.24E-02	1.14E-02	7.23E-02	1.87E-07	4.11E-06	8.76E-07	7.96E-04	8.96E-09	3.52E-08	0.00E+00	1.69E-08
2030	Annual	Mon-Sun	2.27E+09	Generator (	D	9999	Railyard Op	U	N	NHH	P	Monterey	NCC	MBU	1.24E-02	1.14E-02	4.54E-01	1.16E-06	8.67E-06	2.21E-05	5.03E-03	5.05E-08	2.65E-07	0.00E+00	1.05E-07
2030	Annual	Mon-Sun	2.28E+09	Vessels w/(	G2	2	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	1.14E+02	1.50E+01	6.52E-01	2.99E-04	3.92E-04	1.60E-06	4.54E-03	1.29E-07	7.51E-05	2.01E-06	1.86E-05
2030	Annual	Mon-Sun	2.28E+09	Vessels w/(	G2	15	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	6.32E+03	8.30E+02	1.08E+02	4.54E-02	7.15E-02	2.90E-03	7.54E-01	2.15E-05	1.25E-02	7.35E-04	2.82E-03
2030	Annual	Mon-Sun	2.28E+09	Vessels w/(	G2	25	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	1.72E+03	2.25E+02	9.11E+01	2.77E-02	5.78E-02	2.95E-03	6.83E-01	1.95E-05	1.13E-02	4.01E-04	1.72E-03
2030	Annual	Mon-Sun	2.28E+09	Vessels w/(	G2	50	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	1.68E+03	2.20E+02	2.61E+02	4.11E-02	7.12E-02	9.25E-03	2.25E+00	3.52E-05	2.04E-02	7.32E-04	2.56E-03
2030	Annual	Mon-Sun	2.28E+09	Vessels w/(	G2	120	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	1.48E+03	1.94E+02	4.83E+02	7.01E-02	1.36E-01	1.80E-02	4.18E+00	6.60E-05	3.83E-02	9.84E-04	4.36E-03
2030	Annual	Mon-Sun	2.28E+09	Vessels w/(	G2	175	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	6.81E+02	8.94E+01	4.00E+02	5.73E-02	1.28E-01	1.50E-02	3.44E+00	5.60E-05	3.25E-02	6.24E-04	3.56E-03
2030	Annual	Mon-Sun	2.28E+09	Vessels w/(	G2	250	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	1.96E+02	2.57E+01	1.49E+02	1.95E-02	3.84E-02	8.39E-03	1.30E+00	2.17E-05	1.26E-02	2.55E-04	1.21E-03
2030	Annual	Mon-Sun	2.28E+09	Vessels w/(	G2	500	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	3.95E+01	5.18E+00	4.33E+01	7.57E-03	1.42E-02	1.55E-04	3.66E-01	6.13E-06	3.55E-03	1.41E-05	4.71E-04
2030	Annual	Mon-Sun	2.28E+09	Sailboat Au	G2	15	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	6.08E+01	1.66E+00	2.36E-01	9.94E-05	1.57E-04	6.64E-06	1.65E-03	4.71E-08	2.73E-05	1.57E-06	6.18E-06
2030	Annual	Mon-Sun	2.28E+09	Sailboat Au	G2	25	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	3.27E+01	8.93E-01	2.96E-01	9.02E-05	1.89E-04	9.92E-06	2.22E-03	6.33E-08	3.67E-05	1.45E-06	5.61E-06
2030	Annual	Mon-Sun	2.28E+09	Sailboat Au	G2	50	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	3.03E+01	8.29E-01	8.71E-01	1.37E-04	2.38E-04	3.22E-05	7.51E-03	1.17E-07	6.81E-05	2.64E-06	8.52E-06
2030	Annual	Mon-Sun	2.28E+09	Personal W	G2	9999	Pleasure Cr	U	N	NHH	NP	Monterey	NCC	MBU	3.70E+04	2.49E+03	9.25E+03	1.03E+00	1.85E+00	3.86E-01	8.25E+01	1.34E-03	7.55E-01	1.68E-02	6.38E-02
2030	Annual	Mon-Sun	2.28E+09	V

Natural Gas Activity Data
Source: PG&E

TOTCOUNTY	TOTCITY	YEAR	CATEGORY	RES GAS USE(THM)	RES GAS CO2(metric t	RES GAS 100	COM GAS AVG(THM)	COM GAS USE(THM)	COM GAS CO2(metric	COM GAS 1515	IND GAS AVG(THM)	IND GAS USE(THM)	IND GAS CO2(metric t	IND GAS 1515
SACRAMENTO	RANCHO C	2005	(3) COUNTY					27,524	146					
SACRAMENTO	RANCHO C	2006	(3) COUNTY					23,644	125					
SACRAMENTO	RANCHO C	2007	(3) COUNTY	26	0			23,170	123					
SACRAMENTO	RANCHO C	2008	(3) COUNTY	50	0			20,511	109					
SACRAMENTO	RANCHO C	2009	(3) COUNTY					18,053	96					
SACRAMENTO	RANCHO C	2010	(3) COUNTY	124	1			13,940	74					
SACRAMENTO	RANCHO C	2011	(3) COUNTY					11,348	60					
SACRAMENTO	RANCHO C	2012	(3) COUNTY					10,178	54					
SACRAMENTO	RANCHO C	2013	(3) COUNTY					9,322	49					
SACRAMENTO	RANCHO C	2014	(3) COUNTY					5,648	30					
SACRAMENTO	RANCHO C	2015	(3) COUNTY					8,703	46					
SACRAMENTO	RANCHO C	2016	(3) COUNTY					9,146	49					
SACRAMENTO	RANCHO C	2017	(3) COUNTY					11,475	61					
SACRAMENTO	RANCHO C	2018	(3) COUNTY					8,774	47					
SACRAMENTO	RANCHO C	2019	(3) COUNTY	10	0			9,742	52					
SACRAMENTO	RANCHO C	2020	(3) COUNTY					9,792	52					
SACRAMENTO	RANCHO C	2005	(4) CITY					878	5					
SACRAMENTO	RANCHO C	2006	(4) CITY					10,558	56					
SACRAMENTO	RANCHO C	2007	(4) CITY					18,033	96					
SACRAMENTO	RANCHO C	2008	(4) CITY	1,255	7			23,442	124					
SACRAMENTO	RANCHO C	2009	(4) CITY					19,623	104					
SACRAMENTO	RANCHO C	2010	(4) CITY					17,180	91					
SACRAMENTO	RANCHO C	2011	(4) CITY					29,491	157					
SACRAMENTO	RANCHO C	2012	(4) CITY					43,419	230					
SACRAMENTO	RANCHO C	2013	(4) CITY					41,716	221					
SACRAMENTO	RANCHO C	2014	(4) CITY					43,506	231					
SACRAMENTO	RANCHO C	2015	(4) CITY					35,318	187					
SACRAMENTO	RANCHO C	2016	(4) CITY					32,410	172					
SACRAMENTO	RANCHO C	2017	(4) CITY					35,408	188					
SACRAMENTO	RANCHO C	2018	(4) CITY					34,379	182					
SACRAMENTO	RANCHO C	2019	(4) CITY					30,432	162					
SACRAMENTO	RANCHO C	2020	(4) CITY					28,162	149					
SACRAMENTO	RANCHO C	2005	(5) DISTRICT					185,663	985					
SACRAMENTO	RANCHO C	2006	(5) DISTRICT					226,585	1,203					
SACRAMENTO	RANCHO C	2007	(5) DISTRICT					258,266	1,371					
SACRAMENTO	RANCHO C	2008	(5) DISTRICT	202	1			235,740	1,251					
SACRAMENTO	RANCHO C	2009	(5) DISTRICT	598	3			224,574	1,192					
SACRAMENTO	RANCHO C	2010	(5) DISTRICT	741	4			206,369	1,095					
SACRAMENTO	RANCHO C	2011	(5) DISTRICT	634	3			172,144	914					
SACRAMENTO	RANCHO C	2012	(5) DISTRICT	367	2			153,464	814					
SACRAMENTO	RANCHO C	2013	(5) DISTRICT	353	2			157,650	837					
SACRAMENTO	RANCHO C	2014	(5) DISTRICT	306	2			135,115	717					
SACRAMENTO	RANCHO C	2015	(5) DISTRICT	355	2			158,170	839					
SACRAMENTO	RANCHO C	2016	(5) DISTRICT	499	3			160,940	854					
SACRAMENTO	RANCHO C	2017	(5) DISTRICT	556	3			200,686	1,065					
SACRAMENTO	RANCHO C	2018	(5) DISTRICT	571	3			216,601	1,150					
SACRAMENTO	RANCHO C	2019	(5) DISTRICT	623	3			218,084	1,157					
SACRAMENTO	RANCHO C	2020	(5) DISTRICT	631	3			190,687	1,012					
SACRAMENTO	RANCHO C	2005	NONGOVENT	7,565,764	40,152	PASS		3,744,199	19,871	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2006	NONGOVENT	8,213,592	43,590	PASS		3,742,297	19,861	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2007	NONGOVENT	8,313,909	44,123	PASS		3,650,704	19,375	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2008	NONGOVENT	8,534,719	45,294	PASS		3,670,532	19,480	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2009	NONGOVENT	8,712,211	46,236	PASS		3,555,924	18,872	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2010	NONGOVENT	8,699,075	46,167	PASS		3,420,298	18,152	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2011	NONGOVENT	9,464,074	50,227	PASS		3,521,972	18,691	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2012	NONGOVENT	8,764,024	46,511	PASS		3,251,473	17,256	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2013	NONGOVENT	8,751,983	46,448	PASS		3,381,261	17,945	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2014	NONGOVENT	7,425,447	39,407	PASS		2,992,161	15,880	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2015	NONGOVENT	7,825,333	41,530	PASS		3,160,480	16,773	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2016	NONGOVENT	8,082,673	42,895	PASS		3,338,007	17,715	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2017	NONGOVENT	8,616,919	45,731	PASS		3,618,429	19,203	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2018	NONGOVENT	8,837,632	46,902	PASS		3,444,960	18,283	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2019	NONGOVENT	9,082,001	48,199	PASS		3,654,085	19,393	PASS-COM ONLY				FAIL-DROPPED
SACRAMENTO	RANCHO C	2020	NONGOVENT	9,015,316	47,845	PASS		3,189,441	16,927	PASS-COM ONLY				FAIL-DROPPED

Electricity Activity Data
Source: SMUD

rate_cat	ind_code	account_type	sum_of_kwh2017	sum_of_kwh2018	sum_of_kwh2019
ASD	221310	Agricultural	7296	28683	0
ASD	221312	Agricultural	91312	12030	106112
ASN	221311	Agricultural	1978	2212	1734
ASN	221312	Agricultural	35797	27676	28991
ASN	221312	Agricultural	105	216	220
CITP-2	485111	Small Commercial	1993542	1935490	1918945
CITP-3	485111	Industrial	1486719	1472371	1542999
CITP-4	518210	Industrial	20971529	20462575	17749560
CITS-0	221122	Small Commercial	13	0	0
CITS-0	221310	Small Commercial	64238	47300	60002
CITS-0	221311	Small Commercial	21191	22045	19637
CITS-0	221311	Small Commercial	15578	13949	13128
CITS-0	221312	Small Commercial	27042	28588	31943
CITS-0	221312	Small Commercial	81	75	146
CITS-0	221320	Small Commercial	107352	87271	110558
CITS-0	221320	Small Commercial	5549	1237	1183
CITS-0	231543	Small Commercial	6407	7832	8414
CITS-0	236220	Small Commercial	5	0	3
CITS-0	322222	Small Commercial	7054	5937	5938
CITS-0	423210	Small Commercial	74615	77018	84029
CITS-0	423720	Small Commercial	0	0	46241
CITS-0	485111	Small Commercial	324049	326195	316603
CITS-0	488210	Small Commercial	1436	1447	1341
CITS-0	493110	Small Commercial	20466	32606	31123
CITS-0	524210	Small Commercial	152595	130276	85122
CITS-0	531110	Small Commercial	8992	10376	9557
CITS-0	531120	Small Commercial	39292	46843	43027
CITS-0	531120	Small Commercial	0	0	117
CITS-0	531130	Small Commercial	0	0	0
CITS-0	531190	Small Commercial	7907	5670	3823
CITS-0	531191	Small Commercial	38624	40745	38959
CITS-0	531191	Small Commercial	1203	2592	2328
CITS-0	541330	Small Commercial	13395	13026	12069
CITS-0	611110	Small Commercial	131663	135973	129617
CITS-0	611210	Small Commercial	0	0	0
CITS-0	611310	Small Commercial	3735	3745	3459
CITS-0	621111	Small Commercial	0	0	46718
CITS-0	624410	Small Commercial	85944	82206	73509
CITS-0	722110	Small Commercial	86690	80079	78863
CITS-0	722211	Small Commercial	0	0	0
CITS-0	811111	Small Commercial	20940	21876	24127
CITS-0	921190	Small Commercial	80650	75405	78194
CITS-0	921190	Small Commercial	27469	19707	19123

CITS-0	922120	Small Commercial	53035	53928	43188
CITS-0	922160	Small Commercial	26014	29775	38758
CITS-0	922190	Small Commercial	85629	76644	74731
CITS-0	923110	Small Commercial	96299	88560	89309
CITS-0	924110	Small Commercial	768	809	1364
CITS-0	925110	Small Commercial	6609	5120	4879
CITS-0	925190	Small Commercial	0	0	0
CITS-0	926120	Small Commercial	4565	3222	4529
CITS-0	926130	Small Commercial	22744	21675	23888
CITS-0	926130	Small Commercial	17	1	11
CITS-0	928120	Small Commercial	57659	44614	44012
CITS-1	221311	Small Commercial	343122	314824	267172
CITS-1	221320	Small Commercial	268475	263117	219751
CITS-1	238160	Small Commercial	0	38576	62406
CITS-1	485111	Small Commercial	110408	119669	106838
CITS-1	491110	Small Commercial	209984	232373	232826
CITS-1	524210	Small Commercial	577143	580675	494995
CITS-1	531120	Small Commercial	146875	142422	141218
CITS-1	531191	Small Commercial	1433081	1207508	1145335
CITS-1	551114	Small Commercial	0	271568	436952
CITS-1	561612	Small Commercial	0	152739	225989
CITS-1	611110	Small Commercial	5564555	5562245	5611943
CITS-1	611210	Small Commercial	325728	406870	415348
CITS-1	624110	Small Commercial	161782	180961	185713
CITS-1	722410	Small Commercial	194716	179684	193424
CITS-1	722513	Small Commercial	0	0	0
CITS-1	921110	Small Commercial	614743	589452	583507
CITS-1	921190	Small Commercial	0	51117	0
CITS-1	922130	Small Commercial	224553	246881	217871
CITS-1	922160	Small Commercial	406113	356071	326455
CITS-1	922190	Small Commercial	981963	1040087	991190
CITS-1	923110	Small Commercial	147742	144826	149160
CITS-1	924110	Small Commercial	94093	87570	100086
CITS-1	926120	Small Commercial	137200	143155	127636
CITS-1	926150	Small Commercial	118198	115233	121621
CITS-1	928110	Small Commercial	423351	390560	379850
CITS-2	221312	Small Commercial	0	0	0
CITS-2	524210	Small Commercial	996215	1028056	974323
CITS-2	611110	Small Commercial	874151	911226	950783
CITS-2	813110	Small Commercial	699355	662044	690847
CITS-2	922190	Small Commercial	0	1236073	2024069
CITS-2	924110	Small Commercial	2148994	2209900	2456504
CITS-2	926120	Small Commercial	1356288	1384097	1524059
GSN	221312	Small Commercial	2	0	0
GSN	231531	Small Commercial	3847	1159	0
GSN	236115	Small Commercial	0	140	124
GSN	238220	Small Commercial	405563	379988	343631

GSN	238320	Small Commercial	4951	6097	272
GSN	238330	Small Commercial	16583	15247	15376
GSN	238350	Small Commercial	5293	2368	2005
GSN	238390	Small Commercial	7056	10051	12842
GSN	311320	Small Commercial	83382	79622	73985
GSN	315210	Small Commercial	938	886	1076
GSN	423120	Small Commercial	12564	7639	8719
GSN	423130	Small Commercial	7954	0	0
GSN	423220	Small Commercial	19836	20785	23261
GSN	441221	Small Commercial	37176	29893	28089
GSN	441310	Small Commercial	22779	17563	16971
GSN	442110	Small Commercial	3966	3618	3663
GSN	444190	Small Commercial	110035	120243	116001
GSN	445210	Small Commercial	226409	233369	195754
GSN	515120	Small Commercial	10381	8913	8210
GSN	517110	Small Commercial	2902	2896	2903
GSN	517510	Small Commercial	6776	4679	4015
GSN	531110	Small Commercial	11894	10353	8517
GSN	531120	Small Commercial	82338	77127	70408
GSN	531191	Residential	2798	0	0
GSN	531191	Small Commercial	20702	23161	18739
GSN	541110	Small Commercial	353	134	0
GSN	541320	Small Commercial	14677	13056	14212
GSN	541410	Small Commercial	0	0	0
GSN	561710	Small Commercial	47690	0	0
GSN	561730	Small Commercial	16359	18549	17025
GSN	621310	Small Commercial	722	0	0
GSN	624229	Small Commercial	0	5972	0
GSN	6531	Small Commercial	22665	17468	15388
GSN	722211	Small Commercial	115610	114484	112358
GSN	811111	Small Commercial	40136	38034	34423
GSN	811118	Small Commercial	10134	8215	9211
GSN	811121	Small Commercial	33746	27427	24189
GSN	811490	Small Commercial	14818	3403	0
GSN	813990	Small Commercial	0	0	386
GSN	RE1100	Residential	15676	15355	15856
GSN_T	111419	Small Commercial	494	0	0
GSN_T	111421	Small Commercial	977	799	719
GSN_T	113310	Small Commercial	62651	60736	52301
GSN_T	115112	Small Commercial	13400	10805	12219
GSN_T	212322	Small Commercial	21763	23376	20471
GSN_T	213112	Small Commercial	49734	44973	46612
GSN_T	213113	Small Commercial	51462	47839	46497
GSN_T	221111	Small Commercial	13657	13239	14170
GSN_T	221119	Small Commercial	109814	94030	147212
GSN_T	221122	Small Commercial	6799	6814	5933
GSN_T	221210	Small Commercial	22064	22394	25513

GSN_T	221310	Small Commercial	39704	32394	25691
GSN_T	221311	Small Commercial	1447120	1800846	1341929
GSN_T	221312	Small Commercial	96326	83916	86112
GSN_T	221312	Small Commercial	0	0	0
GSN_T	221320	Small Commercial	60881	60796	55232
GSN_T	231531	Small Commercial	34467	30043	25791
GSN_T	231543	Small Commercial	318189	320911	70727
GSN_T	236115	Small Commercial	77796	77662	79891
GSN_T	236116	Small Commercial	62842	60003	55764
GSN_T	236117	Small Commercial	8561	21698	23615
GSN_T	236118	Small Commercial	366995	355792	306593
GSN_T	236210	Small Commercial	290029	286836	344652
GSN_T	236220	Small Commercial	1056072	1005242	1043476
GSN_T	237130	Small Commercial	85581	87135	107911
GSN_T	237210	Small Commercial	70279	69192	66043
GSN_T	237310	Small Commercial	106488	104592	104805
GSN_T	237990	Small Commercial	14606	14684	15120
GSN_T	238110	Small Commercial	80528	77287	64675
GSN_T	238120	Small Commercial	22883	18904	18305
GSN_T	238130	Small Commercial	58257	41211	43488
GSN_T	238140	Small Commercial	154154	144684	145593
GSN_T	238150	Small Commercial	61975	57842	57590
GSN_T	238160	Small Commercial	180246	186102	179967
GSN_T	238190	Small Commercial	71650	88069	93334
GSN_T	238210	Small Commercial	498956	495081	560058
GSN_T	238220	Small Commercial	846275	813860	783560
GSN_T	238290	Small Commercial	121496	119591	139838
GSN_T	238310	Small Commercial	89965	76686	79790
GSN_T	238320	Small Commercial	150956	142086	142353
GSN_T	238330	Small Commercial	249314	232982	262417
GSN_T	238340	Small Commercial	170491	177549	194311
GSN_T	238350	Small Commercial	325087	299518	309110
GSN_T	238390	Small Commercial	42597	44011	41882
GSN_T	238910	Small Commercial	37674	45338	86751
GSN_T	238990	Small Commercial	161518	152820	159622
GSN_T	311119	Small Commercial	8182	7190	8179
GSN_T	311212	Small Commercial	0	0	0
GSN_T	311520	Small Commercial	9185	82166	78740
GSN_T	311811	Small Commercial	52947	54709	56892
GSN_T	311812	Small Commercial	20839	20842	19857
GSN_T	311920	Small Commercial	7884	6396	6111
GSN_T	311991	Small Commercial	19648	8243	26719
GSN_T	312120	Small Commercial	70047	75485	93670
GSN_T	312140	Small Commercial	16516	22246	22399
GSN_T	313230	Small Commercial	281	5568	8725
GSN_T	314121	Small Commercial	44346	40554	43999
GSN_T	314911	Small Commercial	29163	27474	28694

GSN_T	314999	Small Commercial	14962	16552	13561
GSN_T	315190	Small Commercial	9243	4571	0
GSN_T	315210	Small Commercial	4799	4822	4386
GSN_T	316999	Small Commercial	2472	916	942
GSN_T	321911	Small Commercial	16206	11562	12648
GSN_T	321918	Small Commercial	32569	48026	60140
GSN_T	321999	Small Commercial	12678	4673	4593
GSN_T	322211	Small Commercial	22897	19022	17805
GSN_T	323110	Small Commercial	27616	30871	32190
GSN_T	323111	Small Commercial	44600	37876	31234
GSN_T	323113	Small Commercial	2023	6977	0
GSN_T	323114	Small Commercial	52602	81796	86055
GSN_T	323115	Small Commercial	128783	104923	108352
GSN_T	323119	Small Commercial	1938	2299	11846
GSN_T	323121	Small Commercial	8189	23555	34042
GSN_T	323122	Small Commercial	11348	10200	9908
GSN_T	324121	Small Commercial	1683	20614	52388
GSN_T	325199	Small Commercial	12760	9755	11439
GSN_T	325311	Small Commercial	1297	0	0
GSN_T	325312	Small Commercial	20130	18434	7020
GSN_T	325510	Small Commercial	16425	14933	14728
GSN_T	325611	Small Commercial	6666	6195	6621
GSN_T	325620	Small Commercial	40062	43132	43991
GSN_T	326199	Small Commercial	192387	201176	191164
GSN_T	326211	Small Commercial	6685	3719	9503
GSN_T	326299	Small Commercial	12067	8794	9402
GSN_T	327112	Small Commercial	2873	5343	6325
GSN_T	327122	Small Commercial	7837	7460	10705
GSN_T	327212	Small Commercial	9096	9403	9585
GSN_T	327215	Small Commercial	12252	14128	16153
GSN_T	327320	Small Commercial	36221	34074	29965
GSN_T	327331	Small Commercial	0	0	1181
GSN_T	327390	Small Commercial	5261	4517	4650
GSN_T	327991	Small Commercial	33588	9893	42330
GSN_T	331111	Small Commercial	76290	144143	152572
GSN_T	331491	Small Commercial	2936	4175	3962
GSN_T	332212	Small Commercial	20365	35783	41205
GSN_T	332311	Small Commercial	25855	26734	25711
GSN_T	332312	Small Commercial	49123	48151	45358
GSN_T	332321	Small Commercial	1130	919	700
GSN_T	332322	Small Commercial	146219	176657	167527
GSN_T	332323	Small Commercial	76007	75496	69147
GSN_T	332431	Small Commercial	29388	37142	28861
GSN_T	332618	Small Commercial	44829	16535	47689
GSN_T	332710	Small Commercial	212950	235483	211743
GSN_T	332721	Small Commercial	3502	2081	2758
GSN_T	332812	Small Commercial	34495	38009	47641

GSN_T	332992	Small Commercial	8949	10766	11435
GSN_T	332999	Small Commercial	34230	39467	52963
GSN_T	333111	Small Commercial	31917	24406	21310
GSN_T	333120	Small Commercial	200	403	4104
GSN_T	333131	Small Commercial	153	0	0
GSN_T	333210	Small Commercial	5645	2694	704
GSN_T	333294	Small Commercial	25097	21579	21367
GSN_T	333298	Small Commercial	6824	31296	27490
GSN_T	333318	Small Commercial	10689	9849	9211
GSN_T	333319	Small Commercial	31952	31946	28077
GSN_T	333414	Small Commercial	28445	28412	33292
GSN_T	333415	Small Commercial	64726	58366	54306
GSN_T	333511	Small Commercial	16383	16505	14139
GSN_T	333512	Small Commercial	29146	27671	24904
GSN_T	333515	Small Commercial	7598	9454	13743
GSN_T	333618	Small Commercial	2063	1452	1291
GSN_T	333911	Small Commercial	45	67	60
GSN_T	333921	Small Commercial	20736	17127	15922
GSN_T	333923	Small Commercial	46999	43960	39090
GSN_T	333991	Small Commercial	15299	15142	14404
GSN_T	333992	Small Commercial	7573	5767	7700
GSN_T	334111	Small Commercial	52197	58618	74425
GSN_T	334220	Small Commercial	162888	85442	89750
GSN_T	334413	Small Commercial	116550	98107	56433
GSN_T	334418	Small Commercial	28922	31131	31229
GSN_T	334510	Small Commercial	49578	35215	40685
GSN_T	334515	Small Commercial	57926	56404	59008
GSN_T	335110	Small Commercial	55282	54298	52749
GSN_T	335121	Small Commercial	17874	16573	15244
GSN_T	335122	Small Commercial	1631	2691	2353
GSN_T	335129	Small Commercial	27692	26586	24162
GSN_T	335221	Small Commercial	10696	25915	24083
GSN_T	335991	Small Commercial	7347	7371	10332
GSN_T	336211	Small Commercial	154391	133305	94502
GSN_T	336312	Small Commercial	104638	91134	91461
GSN_T	336330	Small Commercial	11608	10462	5608
GSN_T	336340	Small Commercial	64765	61314	34766
GSN_T	336360	Small Commercial	61291	44247	19399
GSN_T	336399	Small Commercial	51715	20477	13661
GSN_T	336413	Small Commercial	12788	11727	10411
GSN_T	336991	Small Commercial	7497	3605	2362
GSN_T	336999	Small Commercial	11960	14425	12548
GSN_T	337110	Small Commercial	335772	322329	313610
GSN_T	337122	Small Commercial	17917	19319	19702
GSN_T	337124	Small Commercial	48283	52683	66182
GSN_T	337127	Small Commercial	13877	22043	27197
GSN_T	337129	Small Commercial	10394	9656	10733

GSN_T	337212	Small Commercial	1557	6070	17387
GSN_T	339112	Small Commercial	0	0	0
GSN_T	339113	Small Commercial	61179	59789	60041
GSN_T	339114	Small Commercial	10198	7765	6392
GSN_T	339115	Small Commercial	0	0	0
GSN_T	339116	Small Commercial	18928	18379	16475
GSN_T	339914	Small Commercial	24499	24848	13192
GSN_T	339920	Small Commercial	38714	35731	33980
GSN_T	339942	Small Commercial	33447	29603	9898
GSN_T	339950	Small Commercial	172980	177237	185320
GSN_T	339999	Small Commercial	30239	25291	23395
GSN_T	423110	Small Commercial	18290	38305	45684
GSN_T	423120	Small Commercial	161935	152085	149650
GSN_T	423130	Small Commercial	23583	22042	22780
GSN_T	423140	Small Commercial	175197	159525	160364
GSN_T	423210	Small Commercial	208699	218374	282320
GSN_T	423220	Small Commercial	68976	85170	83866
GSN_T	423310	Small Commercial	45555	42044	50319
GSN_T	423320	Small Commercial	102283	79128	63795
GSN_T	423390	Small Commercial	97517	81547	68192
GSN_T	423420	Small Commercial	45105	46219	41205
GSN_T	423430	Small Commercial	14869	17886	8663
GSN_T	423450	Small Commercial	99780	99308	106127
GSN_T	423490	Small Commercial	4694	4394	3910
GSN_T	423510	Small Commercial	25096	23136	23548
GSN_T	423610	Small Commercial	288562	284566	282056
GSN_T	423620	Small Commercial	9563	6932	7189
GSN_T	423690	Small Commercial	53774	52653	48418
GSN_T	423710	Small Commercial	42989	47568	54200
GSN_T	423720	Small Commercial	210900	164160	107523
GSN_T	423730	Small Commercial	64183	54399	56282
GSN_T	423740	Small Commercial	72617	84459	76275
GSN_T	423820	Small Commercial	32182	32070	30811
GSN_T	423830	Small Commercial	171929	160096	147339
GSN_T	423850	Small Commercial	57115	51380	59104
GSN_T	423860	Small Commercial	17730	15933	13654
GSN_T	423910	Small Commercial	101339	96324	98869
GSN_T	423920	Small Commercial	19126	18240	13169
GSN_T	423930	Small Commercial	500114	488003	496676
GSN_T	423990	Small Commercial	0	672	10753
GSN_T	424120	Small Commercial	92428	98744	109533
GSN_T	424130	Small Commercial	36089	31947	33028
GSN_T	424410	Small Commercial	3989	4026	3068
GSN_T	424420	Small Commercial	6987	5997	3822
GSN_T	424430	Small Commercial	64205	70385	58896
GSN_T	424490	Small Commercial	13052	15299	16299
GSN_T	424690	Small Commercial	13846	11134	10611

GSN_T	424710	Small Commercial	61415	48919	47376
GSN_T	424720	Small Commercial	24349	23668	24478
GSN_T	424810	Small Commercial	8618	16568	15650
GSN_T	424820	Small Commercial	9277	11414	18673
GSN_T	424910	Small Commercial	18569	17632	17051
GSN_T	424930	Small Commercial	16627	18662	26379
GSN_T	424950	Small Commercial	31086	32664	25062
GSN_T	424990	Small Commercial	9398	11147	12403
GSN_T	425120	Small Commercial	2504	526	1195
GSN_T	441110	Small Commercial	45807	42714	39594
GSN_T	441120	Small Commercial	299308	338434	279071
GSN_T	441210	Small Commercial	54935	45199	1720
GSN_T	441221	Small Commercial	12705	11829	10405
GSN_T	441222	Small Commercial	183333	152248	139536
GSN_T	441228	Small Commercial	9209	10431	10329
GSN_T	441229	Small Commercial	2048	1355	4502
GSN_T	441310	Small Commercial	921506	894207	872687
GSN_T	441320	Small Commercial	35315	39179	33274
GSN_T	442110	Small Commercial	425906	389675	451018
GSN_T	442210	Small Commercial	90905	86902	149100
GSN_T	442291	Small Commercial	21122	21928	25308
GSN_T	442299	Small Commercial	60300	102802	92203
GSN_T	443111	Small Commercial	12636	3382	4304
GSN_T	443112	Small Commercial	202811	255349	255284
GSN_T	443120	Small Commercial	191488	182346	161169
GSN_T	443142	Small Commercial	369	368	706
GSN_T	444110	Small Commercial	218129	194330	208100
GSN_T	444120	Small Commercial	133731	119459	109079
GSN_T	444130	Small Commercial	85680	84979	85813
GSN_T	444190	Small Commercial	461296	465624	464934
GSN_T	444210	Small Commercial	61720	65384	71122
GSN_T	444220	Small Commercial	8644	7966	7464
GSN_T	445110	Small Commercial	288628	263209	258982
GSN_T	445120	Small Commercial	157678	152214	134711
GSN_T	445210	Small Commercial	85227	71736	71694
GSN_T	445292	Small Commercial	87841	72734	65727
GSN_T	445299	Small Commercial	7348	7416	8237
GSN_T	445310	Small Commercial	325180	323777	333401
GSN_T	446110	Small Commercial	7438	2807	6565
GSN_T	446120	Small Commercial	109628	105209	106275
GSN_T	446191	Small Commercial	33003	26861	17974
GSN_T	446199	Small Commercial	47	1459	1389
GSN_T	447110	Small Commercial	120634	46206	46076
GSN_T	447190	Small Commercial	97920	79803	66063
GSN_T	448120	Small Commercial	2037	8150	11173
GSN_T	448140	Small Commercial	41939	50736	48843
GSN_T	448150	Small Commercial	31268	33440	33380

GSN_T	448190	Small Commercial	56015	63533	61528
GSN_T	448310	Small Commercial	44839	50319	51344
GSN_T	451110	Small Commercial	158836	166210	174313
GSN_T	451120	Small Commercial	102739	99963	104092
GSN_T	451130	Small Commercial	88806	80147	74563
GSN_T	452110	Small Commercial	201	217	188
GSN_T	452111	Small Commercial	28989	31323	3902
GSN_T	452112	Small Commercial	44884	49483	54574
GSN_T	452311	Small Commercial	30425	31627	41485
GSN_T	452910	Small Commercial	20591	14344	17533
GSN_T	452990	Small Commercial	54624	47310	54400
GSN_T	453110	Small Commercial	62874	63374	67703
GSN_T	453210	Small Commercial	374834	351836	336626
GSN_T	453220	Small Commercial	51010	42279	28380
GSN_T	453310	Small Commercial	502864	451381	432584
GSN_T	453910	Small Commercial	63504	115232	100371
GSN_T	453991	Small Commercial	67639	63741	99679
GSN_T	453998	Small Commercial	106324	98495	89932
GSN_T	454110	Small Commercial	13724	14303	6846
GSN_T	454111	Small Commercial	85132	112766	124608
GSN_T	454112	Small Commercial	5330	6832	6194
GSN_T	454113	Small Commercial	5287	4496	10048
GSN_T	454210	Small Commercial	374	416	1236
GSN_T	454312	Small Commercial	85651	87409	91964
GSN_T	454390	Small Commercial	18768	12945	13240
GSN_T	481111	Small Commercial	5980	1002	2100
GSN_T	482111	Small Commercial	7961	8026	8497
GSN_T	484210	Small Commercial	66632	62668	62133
GSN_T	485320	Small Commercial	8677	8144	7172
GSN_T	486210	Small Commercial	12324	12278	17990
GSN_T	488310	Small Commercial	32459	26313	28349
GSN_T	488410	Small Commercial	113811	119544	113079
GSN_T	488510	Small Commercial	50528	51860	59865
GSN_T	492210	Small Commercial	21161	14179	14019
GSN_T	493110	Small Commercial	1045235	1032369	1106413
GSN_T	493120	Small Commercial	2776	3595	3286
GSN_T	493190	Small Commercial	102441	96122	81898
GSN_T	512110	Small Commercial	20262	15820	15415
GSN_T	512240	Small Commercial	3380	801	10333
GSN_T	515112	Small Commercial	0	0	22
GSN_T	516110	Small Commercial	19756	35005	28829
GSN_T	517110	Small Commercial	1112956	1132596	1114688
GSN_T	517212	Small Commercial	1800594	1792468	1995088
GSN_T	517312	Small Commercial	15917	15474	14526
GSN_T	517410	Small Commercial	0	0	0
GSN_T	517510	Small Commercial	491368	530590	536153
GSN_T	517910	Small Commercial	12869	14317	11099

GSN_T	517911	Small Commercial	12355	10604	10838
GSN_T	518210	Small Commercial	2539889	3908925	5421556
GSN_T	521110	Small Commercial	8795	10542	10247
GSN_T	522110	Small Commercial	105440	84229	86030
GSN_T	522120	Small Commercial	81801	94719	96799
GSN_T	522130	Small Commercial	136079	146518	159665
GSN_T	522220	Small Commercial	15558	35946	38809
GSN_T	522291	Small Commercial	88313	87992	79868
GSN_T	522292	Small Commercial	72511	80020	69211
GSN_T	522310	Small Commercial	3423	3217	3509
GSN_T	522320	Small Commercial	32014	28673	31529
GSN_T	522390	Small Commercial	58633	52435	55903
GSN_T	523910	Small Commercial	4503	3926	3144
GSN_T	523930	Small Commercial	35568	37396	36692
GSN_T	524113	Small Commercial	73111	74032	82739
GSN_T	524126	Small Commercial	10382	8213	8387
GSN_T	524210	Small Commercial	461838	456106	458416
GSN_T	524291	Small Commercial	28710	9549	10121
GSN_T	531110	Small Commercial	2938344	2830364	2747121
GSN_T	531120	Small Commercial	4783716	4472027	4312109
GSN_T	531120	Small Commercial	297	225	20
GSN_T	531123	Small Commercial	118151	116072	111926
GSN_T	531130	Small Commercial	502543	445684	411554
GSN_T	531190	Small Commercial	896742	900397	900545
GSN_T	531191	Small Commercial	4412892	4154551	4072993
GSN_T	531210	Small Commercial	278248	395136	420078
GSN_T	531311	Small Commercial	102406	105921	92622
GSN_T	531312	Small Commercial	369993	296021	310168
GSN_T	531390	Small Commercial	14073	8974	13176
GSN_T	532111	Small Commercial	161417	155391	159010
GSN_T	532120	Small Commercial	2320	1743	1101
GSN_T	532210	Small Commercial	15151	10077	4177
GSN_T	532292	Small Commercial	82	4218	4063
GSN_T	532299	Small Commercial	5905	3114	2048
GSN_T	532310	Small Commercial	52070	50347	41450
GSN_T	532412	Small Commercial	51232	54632	48040
GSN_T	532420	Small Commercial	133976	123602	153686
GSN_T	532490	Small Commercial	12942	13953	16025
GSN_T	533110	Small Commercial	8472	65532	110125
GSN_T	541110	Small Commercial	199334	237637	225039
GSN_T	541191	Small Commercial	66075	62969	63502
GSN_T	541211	Small Commercial	471095	436037	323304
GSN_T	541213	Small Commercial	8737	8169	12062
GSN_T	541219	Small Commercial	34411	22211	23052
GSN_T	541310	Small Commercial	134285	147618	153104
GSN_T	541320	Small Commercial	73471	65208	67181
GSN_T	541330	Small Commercial	499190	501151	490129

GSN_T	541350	Small Commercial	17815	14229	12425
GSN_T	541370	Small Commercial	8600	8292	8314
GSN_T	541380	Small Commercial	134773	126787	113769
GSN_T	541410	Small Commercial	26048	19560	18790
GSN_T	541420	Small Commercial	42994	10210	72304
GSN_T	541430	Small Commercial	94220	91873	74400
GSN_T	541511	Small Commercial	118480	125098	118907
GSN_T	541512	Small Commercial	121903	106807	107107
GSN_T	541611	Small Commercial	45053	28338	40474
GSN_T	541613	Small Commercial	37953	36891	43867
GSN_T	541614	Small Commercial	42059	33569	35885
GSN_T	541618	Small Commercial	11816	4210	1001
GSN_T	541620	Small Commercial	136541	148335	176260
GSN_T	541690	Small Commercial	134288	109145	111636
GSN_T	541710	Small Commercial	63151	56820	56740
GSN_T	541810	Small Commercial	25422	26490	29932
GSN_T	541811	Small Commercial	4809	3677	3838
GSN_T	541850	Small Commercial	93700	91645	103239
GSN_T	541860	Small Commercial	2830	3036	2605
GSN_T	541870	Small Commercial	31127	49482	52711
GSN_T	541890	Small Commercial	10562	19938	20147
GSN_T	541921	Small Commercial	14924	13249	14180
GSN_T	541922	Small Commercial	18099	16296	5016
GSN_T	541940	Small Commercial	295436	280304	237267
GSN_T	541990	Small Commercial	5524	22067	38698
GSN_T	551114	Small Commercial	211712	237860	190136
GSN_T	561110	Small Commercial	311158	257590	224530
GSN_T	561320	Small Commercial	0	20986	22116
GSN_T	561431	Small Commercial	58501	83303	70952
GSN_T	561439	Small Commercial	86596	80422	86753
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GSN_T	561491	Small Commercial	18417	10860	13155
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GSN_T	561612	Small Commercial	97363	82869	79411
GSN_T	561621	Small Commercial	196229	172168	160279
GSN_T	561710	Small Commercial	326079	256322	277525
GSN_T	561720	Small Commercial	78332	73148	75759
GSN_T	561730	Small Commercial	213548	188128	231851
GSN_T	561740	Small Commercial	5143	4873	4124
GSN_T	561790	Small Commercial	71013	58281	71654
GSN_T	561910	Small Commercial	40618	37089	36684
GSN_T	562111	Small Commercial	37412	40038	55621
GSN_T	562119	Small Commercial	52107	45575	44269
GSN_T	562213	Small Commercial	0	0	0
GSN_T	562910	Small Commercial	54450	88272	158945
GSN_T	611110	Small Commercial	75619	59000	67282
GSN_T	611111	Small Commercial	8389	6922	6841

GSN_T	611113	Small Commercial	18947	17865	20914
GSN_T	611117	Small Commercial	0	0	0
GSN_T	611210	Small Commercial	16947	15218	17498
GSN_T	611310	Small Commercial	17098	13259	18632
GSN_T	611420	Small Commercial	51488	51266	46314
GSN_T	611513	Small Commercial	55049	42440	63491
GSN_T	611610	Small Commercial	6022	3454	3352
GSN_T	611620	Small Commercial	323626	286913	311397
GSN_T	611691	Small Commercial	14260	8838	5080
GSN_T	621111	Small Commercial	245171	245311	240003
GSN_T	621112	Small Commercial	105697	115965	123776
GSN_T	621210	Small Commercial	540772	524457	514973
GSN_T	621310	Small Commercial	36249	36559	37062
GSN_T	621320	Small Commercial	70170	79856	67586
GSN_T	621330	Small Commercial	35253	39392	52518
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GSN_T	621399	Small Commercial	23573	23535	26854
GSN_T	621420	Small Commercial	5350	2635	2490
GSN_T	621493	Small Commercial	41951	37081	19903
GSN_T	621498	Small Commercial	16468	17892	16262
GSN_T	621511	Small Commercial	20415	20754	18614
GSN_T	621512	Small Commercial	43123	42701	42650
GSN_T	621610	Small Commercial	8291	20023	25533
GSN_T	621910	Small Commercial	86064	115197	124831
GSN_T	621991	Small Commercial	41850	4077	0
GSN_T	621999	Small Commercial	13844	16728	22423
GSN_T	622110	Small Commercial	21152	20796	29610
GSN_T	622210	Small Commercial	29513	28197	30599
GSN_T	622310	Small Commercial	5685	13086	27966
GSN_T	623110	Small Commercial	32001	31700	34293
GSN_T	623210	Small Commercial	1943	3963	5081
GSN_T	623220	Small Commercial	59463	52121	46614
GSN_T	623311	Small Commercial	12472	16595	32343
GSN_T	623312	Small Commercial	65407	57637	63532
GSN_T	623990	Small Commercial	4755	2834	4118
GSN_T	624110	Small Commercial	63805	41650	43386
GSN_T	624110	Small Commercial	0	0	0
GSN_T	624120	Small Commercial	0	26654	46505
GSN_T	624190	Small Commercial	99717	93539	93539
GSN_T	624230	Small Commercial	23253	18863	18442
GSN_T	624310	Small Commercial	28817	26657	28299
GSN_T	624410	Small Commercial	218338	229188	234427
GSN_T	711110	Small Commercial	60883	63855	71792
GSN_T	711120	Small Commercial	1455	9027	7124
GSN_T	711211	Small Commercial	20705	23111	22549
GSN_T	711212	Small Commercial	3759	8913	8860
GSN_T	711219	Small Commercial	913	24	325

GSN_T	711310	Small Commercial	60862	51032	26731
GSN_T	711320	Small Commercial	9506	10859	14312
GSN_T	711510	Small Commercial	378	378	393
GSN_T	712190	Small Commercial	32627	78907	79903
GSN_T	713110	Small Commercial	169	228	1344
GSN_T	713120	Small Commercial	4600	8825	14050
GSN_T	713210	Small Commercial	18736	19659	20356
GSN_T	713940	Small Commercial	918171	891984	905482
GSN_T	713990	Small Commercial	337328	372034	398824
GSN_T	721110	Small Commercial	5852	43366	37373
GSN_T	721310	Small Commercial	68292	68249	67663
GSN_T	722110	Small Commercial	1052398	1056702	1188286
GSN_T	722211	Small Commercial	811956	729844	864622
GSN_T	722213	Small Commercial	120462	149452	189482
GSN_T	722320	Small Commercial	63277	70188	60933
GSN_T	722410	Small Commercial	191962	167605	144369
GSN_T	722511	Small Commercial	448466	526665	480252
GSN_T	722513	Small Commercial	89295	92931	109889
GSN_T	722515	Small Commercial	216634	254055	245113
GSN_T	811111	Small Commercial	1018778	1039484	1003048
GSN_T	811112	Small Commercial	36634	34878	36327
GSN_T	811113	Small Commercial	51469	53498	45216
GSN_T	811118	Small Commercial	36064	49779	38431
GSN_T	811121	Small Commercial	658940	646849	628952
GSN_T	811122	Small Commercial	51702	47011	44209
GSN_T	811191	Small Commercial	49760	48380	49939
GSN_T	811192	Small Commercial	151463	91906	95081
GSN_T	811198	Small Commercial	86173	100865	128219
GSN_T	811211	Small Commercial	96412	75796	76490
GSN_T	811212	Small Commercial	48895	24503	21713
GSN_T	811213	Small Commercial	10857	10920	27766
GSN_T	811219	Small Commercial	42421	36448	36858
GSN_T	811310	Small Commercial	56879	56088	61410
GSN_T	811411	Small Commercial	39094	62461	94102
GSN_T	811412	Small Commercial	113297	103952	105608
GSN_T	811420	Small Commercial	53731	46214	45421
GSN_T	811490	Small Commercial	40704	39423	38628
GSN_T	812111	Small Commercial	54871	48149	50260
GSN_T	812112	Small Commercial	324189	310730	309730
GSN_T	812113	Small Commercial	181375	176724	187626
GSN_T	812199	Small Commercial	53839	66194	79594
GSN_T	812310	Small Commercial	378459	369303	361402
GSN_T	812320	Small Commercial	43144	45861	42996
GSN_T	812331	Small Commercial	14272	15731	17278
GSN_T	812332	Small Commercial	222	6190	12399
GSN_T	812910	Small Commercial	62921	59663	33505
GSN_T	812930	Small Commercial	84726	67723	77256

GSN_T	812931	Small Commercial	10913	10235	10525
GSN_T	812990	Small Commercial	223377	213052	208502
GSN_T	813110	Small Commercial	977868	916777	948483
GSN_T	813219	Small Commercial	7778	7769	7318
GSN_T	813319	Small Commercial	20212	20771	20003
GSN_T	813410	Small Commercial	10409	9547	9109
GSN_T	813910	Small Commercial	200244	186401	178958
GSN_T	813920	Small Commercial	97193	107765	114405
GSN_T	813930	Small Commercial	4023	9044	8350
GSN_T	813940	Small Commercial	9181	8266	8246
GSN_T	813990	Small Commercial	4167	8720	4543
GSN_T	814110	Small Commercial	6742	8785	16455
GSN_T	921190	Small Commercial	229060	148574	120882
GSN_T	922160	Small Commercial	97710	86191	73284
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GSN_T	922612	Small Commercial	9615	10086	10825
GSN_T	922700	Small Commercial	18082	16537	15657
GSN_T	923110	Small Commercial	104455	43963	57739
GSN_T	923130	Small Commercial	59139	52398	47832
GSN_T	923140	Small Commercial	58073	37502	33250
GSN_T	924120	Small Commercial	91667	99761	87525
GSN_T	925110	Small Commercial	479	502	2917
GSN_T	925120	Small Commercial	148510	128087	84272
GSN_T	925190	Small Commercial	0	0	0
GSN_T	926110	Small Commercial	32250	43711	42829
GSN_T	928110	Small Commercial	14382	39209	27025
GSN_T	928120	Small Commercial	23242	48218	42269
GSN_T	CB0000	Small Commercial	22298	21121	31665
GSN_T	RE1000	Small Commercial	32051	32268	39420
GSN_T	RE1100	Small Commercial	26507	17678	11409
GSP_S	485111	Industrial	189496	196309	204907
GSS_S	221311	Industrial	136805	93558	45735
GSS_S	447110	Industrial	282017	300465	292361
GSS_S	621210	Industrial	108007	105139	94996
GSS_S2	238150	Residential	6796	6048	5850
GSS_T	212312	Industrial	104098	182278	167847
GSS_T	213112	Industrial	111989	47885	98875
GSS_T	221310	Industrial	1017590	1109633	991671
GSS_T	221311	Industrial	3456035	3301545	2942271
GSS_T	221312	Industrial	164117	150906	233265
GSS_T	231543	Industrial	791004	894983	1084307
GSS_T	236210	Industrial	158070	146058	163118
GSS_T	236220	Industrial	708767	495044	570236
GSS_T	237110	Industrial	642941	731368	312317
GSS_T	237130	Industrial	140023	143922	150675
GSS_T	237210	Industrial	267883	257392	187278
GSS_T	238110	Industrial	216475	204046	175248

GSS_T	238160	Industrial	264118	81637	74806
GSS_T	238210	Industrial	3660254	2346476	2381412
GSS_T	238220	Industrial	433276	494688	700200
GSS_T	238320	Industrial	123887	120365	126204
GSS_T	238330	Industrial	91874	84709	78775
GSS_T	238340	Industrial	254329	267724	259771
GSS_T	238350	Industrial	120528	120487	120585
GSS_T	238390	Industrial	376069	331460	358454
GSS_T	311212	Industrial	0	696	45871
GSS_T	311991	Industrial	126615	121260	116040
GSS_T	312120	Industrial	87786	97254	74604
GSS_T	322211	Industrial	277793	304226	330266
GSS_T	323110	Industrial	513736	669556	681933
GSS_T	323113	Industrial	156775	49428	52798
GSS_T	325620	Industrial	65297	84244	89714
GSS_T	326140	Industrial	160911	176405	177680
GSS_T	327320	Industrial	299687	395609	395231
GSS_T	331111	Industrial	141966	208303	216589
GSS_T	332322	Industrial	70844	86590	89053
GSS_T	332710	Industrial	403750	370138	401143
GSS_T	333294	Industrial	50193	66710	74956
GSS_T	333511	Industrial	636777	580995	645687
GSS_T	333921	Industrial	1070533	1030754	1080092
GSS_T	333992	Industrial	176417	196773	206294
GSS_T	333999	Industrial	794431	728398	526802
GSS_T	334111	Industrial	328533	398891	422873
GSS_T	334413	Industrial	324031	317083	369016
GSS_T	334515	Industrial	53826	149191	154348
GSS_T	335122	Industrial	0	4772	75397
GSS_T	335929	Industrial	439975	462690	513089
GSS_T	336111	Industrial	129241	126662	134036
GSS_T	336413	Industrial	85529	92377	111250
GSS_T	336415	Industrial	2236271	2201485	2092727
GSS_T	337110	Industrial	340036	339374	364863
GSS_T	337124	Industrial	92328	85013	85547
GSS_T	337127	Industrial	113397	132012	161982
GSS_T	339113	Industrial	2002935	1652560	1603873
GSS_T	339115	Industrial	134126	132771	125207
GSS_T	423110	Industrial	1657	1292	0
GSS_T	423120	Industrial	271722	266764	268812
GSS_T	423140	Industrial	89621	94225	65493
GSS_T	423210	Industrial	44484	124254	20038
GSS_T	423320	Industrial	133995	120801	105140
GSS_T	423440	Industrial	180988	159972	147500
GSS_T	423450	Industrial	350491	347691	381331
GSS_T	423620	Industrial	109934	119736	116434
GSS_T	423690	Industrial	146006	146369	132856

GSS_T	423720	Industrial	0	39869	60339
GSS_T	423930	Industrial	701527	832697	755121
GSS_T	423990	Industrial	240744	204694	153071
GSS_T	424410	Industrial	1040949	858899	1517866
GSS_T	424490	Industrial	561333	472093	545866
GSS_T	424820	Industrial	24381	0	0
GSS_T	425110	Industrial	199987	233566	272722
GSS_T	425120	Industrial	401390	377806	361395
GSS_T	441110	Industrial	156927	143138	149733
GSS_T	441120	Industrial	225930	206800	265154
GSS_T	441210	Industrial	233407	241199	250124
GSS_T	441310	Industrial	705833	685065	610298
GSS_T	441320	Industrial	275991	244771	232568
GSS_T	442110	Industrial	1748110	1829858	1655876
GSS_T	442210	Industrial	201587	191837	129970
GSS_T	442291	Industrial	239163	196553	200098
GSS_T	443112	Industrial	95812	92193	101645
GSS_T	444110	Industrial	1012170	979276	953776
GSS_T	444130	Industrial	1574831	1127511	1178175
GSS_T	444190	Industrial	1370113	1320724	1327420
GSS_T	445110	Industrial	3450691	3616346	3759120
GSS_T	445120	Industrial	825047	832526	829635
GSS_T	445310	Industrial	395384	382455	389574
GSS_T	446110	Industrial	745634	726625	697964
GSS_T	446120	Industrial	0	0	0
GSS_T	446130	Industrial	197040	162589	190413
GSS_T	447110	Industrial	2724120	2976037	2927432
GSS_T	447190	Industrial	122317	123201	120331
GSS_T	448140	Industrial	589794	588331	584033
GSS_T	448190	Industrial	80822	74510	77583
GSS_T	448210	Industrial	145374	161543	160926
GSS_T	451110	Industrial	314211	276024	277108
GSS_T	451120	Industrial	300944	284548	304037
GSS_T	452110	Industrial	373225	354672	356554
GSS_T	452111	Industrial	192955	159799	113509
GSS_T	452311	Industrial	56019	0	0
GSS_T	452319	Industrial	997251	985134	1004523
GSS_T	452990	Industrial	326102	316965	332698
GSS_T	453210	Industrial	1640663	1561166	1589043
GSS_T	453220	Industrial	123682	114119	114554
GSS_T	453310	Industrial	989738	971723	976392
GSS_T	453910	Industrial	634120	630149	625409
GSS_T	453998	Industrial	343100	302388	307470
GSS_T	454111	Industrial	347344	329517	311686
GSS_T	482111	Industrial	130026	132240	127148
GSS_T	486110	Industrial	493510	492021	460378
GSS_T	492110	Industrial	308238	313610	336936

GSS_T	493110	Industrial	1000921	1061773	1276659
GSS_T	493190	Industrial	65027	56331	62779
GSS_T	517110	Industrial	891822	944546	944173
GSS_T	517212	Industrial	281223	274933	329504
GSS_T	518111	Industrial	1129605	1099128	1318148
GSS_T	518210	Industrial	0	0	0
GSS_T	522110	Industrial	238481	237722	192924
GSS_T	522120	Industrial	0	0	43738
GSS_T	522130	Industrial	102150	104456	101340
GSS_T	522292	Industrial	552838	486541	547473
GSS_T	522298	Industrial	827987	772179	797804
GSS_T	524114	Industrial	1994497	1855650	1797480
GSS_T	524126	Industrial	1749828	1787307	1962768
GSS_T	524210	Industrial	284825	225232	275296
GSS_T	531110	Industrial	175878	209965	192885
GSS_T	531120	Industrial	12138064	11025858	11836159
GSS_T	531123	Industrial	2788503	2361291	2262284
GSS_T	531130	Industrial	109524	149074	280168
GSS_T	531190	Industrial	775846	936036	980102
GSS_T	531191	Industrial	11215036	10149657	9762527
GSS_T	531210	Industrial	2260840	1833506	1771474
GSS_T	531312	Industrial	2904988	2461763	2359888
GSS_T	533110	Industrial	1054	100803	119487
GSS_T	541219	Industrial	334224	431647	332706
GSS_T	541310	Industrial	74079	75031	77668
GSS_T	541380	Industrial	624576	616697	623341
GSS_T	541420	Industrial	501629	625865	535995
GSS_T	541512	Industrial	2016790	2011528	2002972
GSS_T	541513	Industrial	513731	488016	477350
GSS_T	541611	Industrial	498523	154742	128650
GSS_T	541620	Industrial	104314	104826	118054
GSS_T	541710	Industrial	920396	833422	0
GSS_T	541715	Industrial	87832	401963	413269
GSS_T	541850	Industrial	361252	360152	383348
GSS_T	541940	Industrial	842775	797515	801116
GSS_T	551114	Industrial	2463681	2456201	2157139
GSS_T	561110	Industrial	1278551	1412517	1427738
GSS_T	561599	Industrial	119942	116120	112939
GSS_T	561612	Industrial	73025	63938	0
GSS_T	561621	Industrial	90264	100727	103376
GSS_T	561990	Industrial	102978	94743	86154
GSS_T	562111	Industrial	205026	185907	188777
GSS_T	562910	Industrial	1526806	1705044	1555648
GSS_T	611110	Industrial	117808	106298	98738
GSS_T	611117	Industrial	93566	74716	67718
GSS_T	611310	Industrial	1048825	1041880	998874
GSS_T	611513	Industrial	373988	357604	353266

GSS_T	611519	Industrial	70173	71889	70530
GSS_T	611620	Industrial	340897	354252	203149
GSS_T	611710	Industrial	43965	39391	53804
GSS_T	621111	Industrial	1028490	942642	1450253
GSS_T	621112	Industrial	88080	93469	80612
GSS_T	621210	Industrial	960459	945367	978627
GSS_T	621320	Industrial	129327	115131	100375
GSS_T	621420	Industrial	46504	90614	79413
GSS_T	621491	Industrial	991259	1247305	1128898
GSS_T	621492	Industrial	461069	439568	446093
GSS_T	621493	Industrial	70702	74598	68710
GSS_T	621511	Industrial	20984	43700	56139
GSS_T	621610	Industrial	79548	71062	63547
GSS_T	621991	Industrial	1451260	1445958	1428712
GSS_T	622110	Industrial	452017	625292	772404
GSS_T	623312	Industrial	371169	356921	358790
GSS_T	624110	Industrial	412022	409401	418809
GSS_T	624120	Industrial	88298	37737	0
GSS_T	624190	Industrial	174869	119855	76479
GSS_T	624229	Industrial	120397	114730	109140
GSS_T	624230	Industrial	733444	670176	605301
GSS_T	624410	Industrial	645147	562641	602714
GSS_T	6321	Industrial	530943	500087	496234
GSS_T	711310	Industrial	149964	31811	56626
GSS_T	712190	Industrial	108778	105997	97147
GSS_T	713940	Industrial	2121158	1967663	1957554
GSS_T	713990	Industrial	994271	892758	995855
GSS_T	721110	Industrial	9323467	9058203	9135864
GSS_T	722110	Industrial	5306021	5274823	5451218
GSS_T	722211	Industrial	7835653	7634176	7538225
GSS_T	722213	Industrial	679449	692946	724155
GSS_T	722410	Industrial	260964	275712	288116
GSS_T	722511	Industrial	716042	634593	627290
GSS_T	722513	Industrial	380422	378769	310384
GSS_T	722515	Industrial	0	0	0
GSS_T	811111	Industrial	249746	239674	250160
GSS_T	811118	Industrial	80067	87276	86658
GSS_T	811121	Industrial	442343	424635	480460
GSS_T	811191	Industrial	25844	66707	91414
GSS_T	811192	Industrial	439815	424074	448480
GSS_T	811198	Industrial	108355	88156	14776
GSS_T	811310	Industrial	768989	751206	717672
GSS_T	811411	Industrial	228464	192934	107498
GSS_T	812112	Industrial	252256	225505	227088
GSS_T	812199	Industrial	97014	92797	106418
GSS_T	812910	Industrial	0	0	343387
GSS_T	812990	Industrial	405876	401214	389144

GSS_T	813110	Industrial	944194	783335	749726
GSS_T	813211	Industrial	105564	128928	104132
GSS_T	813312	Industrial	118910	110239	103967
GSS_T	813410	Industrial	219798	229112	226810
GSS_T	813930	Industrial	70725	66626	81060
GSS_T	813990	Industrial	396418	380480	301030
GSS_T	921110	Industrial	109500	103627	108623
GSS_T	921190	Industrial	0	0	19743
GSS_T	922160	Industrial	316628	310358	310650
GSS_T	923110	Industrial	84799	78675	79760
GSS_T	923130	Industrial	987752	880832	1097162
GSS_T	923140	Industrial	287984	332172	296730
GSS_T	924120	Industrial	422431	425789	425669
GSS_T	925120	Industrial	247854	224694	192157
GSS_T	926130	Industrial	119223	109879	112254
GSS_T	928110	Industrial	811958	756090	777341
GUP_L	237310	Industrial	1466948	2151134	2081658
GUP_L	334220	Industrial	11306931	11125874	11301111
GUP_L	622110	Industrial	11403994	11123402	11087453
GUP_S	231543	Small Commercial	372412	378268	355235
GUP_S	238350	Small Commercial	117534	137879	131239
GUS_L	517110	Industrial	25241986	26294503	25071147
GUS_L	518210	Industrial	11388658	10614769	10965469
GUS_L	541219	Industrial	7794949	7384352	6987803
GUS_M	221311	Industrial	0	0	0
GUS_M	333511	Industrial	2596030	2952651	3171527
GUS_M	444130	Industrial	3017343	3284155	3213661
GUS_M	452110	Industrial	3115636	3101663	3064490
GUS_M	452910	Industrial	3508160	3421581	3361429
GUS_M	518210	Industrial	9958414	7946139	6570023
GUS_M	531120	Industrial	2163710	1990490	2000548
GUS_M	531123	Industrial	2237463	2170080	2108078
GUS_M	531210	Industrial	4116028	4194180	4255389
GUS_M	541513	Industrial	0	3830725	5963409
GUS_M	721110	Industrial	3257778	3185458	3164018
GUS_S	221312	Industrial	3254468	2513009	83670
GUS_S	333515	Industrial	1243817	1296842	1268216
GUS_S	333999	Industrial	1475060	1444163	1550920
GUS_S	444110	Industrial	1997970	1855443	1480645
GUS_S	445110	Industrial	4605501	4496218	4353874
GUS_S	452990	Industrial	1415712	1193837	1228824
GUS_S	454113	Industrial	903312	1069684	459478
GUS_S	517110	Industrial	5893635	5369223	5407324
GUS_S	518210	Industrial	5031770	4878319	4291244
GUS_S	522120	Industrial	868596	842469	541593
GUS_S	522298	Industrial	1281235	1194552	1227531
GUS_S	524114	Industrial	4968571	4519954	2789143

GUS_S	524126	Industrial	1289784	1274887	1188913
GUS_S	531120	Industrial	4270984	6589411	5299775
GUS_S	531123	Industrial	2345157	2328337	2336490
GUS_S	531190	Industrial	1748482	1331808	1417912
GUS_S	531191	Industrial	1716220	1458916	0
GUS_S	531210	Industrial	3025821	2810957	2832958
GUS_S	541513	Industrial	7645204	4994500	3523321
GUS_S	551114	Industrial	2454004	2291497	1995537
GUS_S	561110	Industrial	1033639	1014498	1019124
GUS_S	611110	Industrial	608735	563684	580863
GUS_S	611310	Industrial	460142	787977	1147594
GUS_S	621111	Industrial	1482797	1147484	596877
GUS_S	621491	Industrial	1073896	502257	0
GUS_S	622110	Industrial	2185460	2271710	2293626
GUS_S	624110	Industrial	604266	569701	635255
GUS_S	921130	Industrial	1535887	1427271	1471320
NLGT	922612	Residential	104	0	0
RF01	RE1100	Residential	493931	519348	1167133
RF01	RE1200	Residential	64357	102966	555755
RF01	RE1300	Residential	0	0	349
RF01_E	RE1100	Residential	93792	108167	132092
RF01_E	RE1200	Residential	38817	65508	141343
RF01_E	RE1300	Residential	0	0	2568
RF01_EL	RE1100	Residential	12057	11572	12730
RF01_EL	RE1200	Residential	2446	8988	12601
RF01_L	RE1100	Residential	16431	43745	47990
RF01_L	RE1200	Residential	0	0	2831
RPEV_1	RE1100	Residential	7282	0	0
RSC	RE1100	Residential	614846	553985	544273
RSC	RE1200	Residential	409593	364402	359490
RSCH	RE1100	Residential	750148	425714	215690
RSCH	RE1200	Residential	95196	46629	30736
RSCH_E	RE1100	Residential	63716	35203	29870
RSCH_E	RE1200	Residential	41095	31420	30299
RSCH_E_SP	RE1200	Residential	7026	5972	5472
RSCH_L	RE1100	Residential	23535	18891	9149
RSCH_SP	RE1200	Residential	2025	2037	1970
RSC_11	RE1200	Residential	16340	15441	15441
RSC_12	RE1200	Residential	12359	3645	6565
RSC_13	RE1200	Residential	9890	8480	10001
RSC_E	RE1100	Residential	85992	82943	83789
RSC_E	RE1200	Residential	77251	71387	64742
RSC_L	RE1100	Residential	45525	45168	32726
RSC_L	RE1200	Residential	9118	6019	5290
RSE	RE1100	Residential	2889678	2511796	2350599
RSE	RE1200	Residential	11291765	10089535	9710917
RSEH	RE1100	Residential	4201069	2767401	1829625

RSEH	RE1200	Residential	9272876	7624550	6047980
RSEH_E	RE1100	Residential	1077701	821695	689083
RSEH_E	RE1200	Residential	4031315	3008042	2357076
RSEH_EL	RE1100	Residential	36641	21011	16032
RSEH_EL	RE1200	Residential	142134	92420	44763
RSEH_E_SP	RE1100	Residential	9269	4556	1872
RSEH_E_SP	RE1200	Residential	67806	39129	39172
RSEH_L	RE1100	Residential	52326	19057	6422
RSEH_L	RE1200	Residential	51329	38953	26412
RSEH_SP	RE1100	Residential	27191	5372	6752
RSEH_SP	RE1200	Residential	74041	56666	63852
RSE_1	RE1100	Residential	20516	19598	21889
RSE_1	RE1200	Residential	6204	5493	4934
RSE_11	RE1100	Residential	52417	50016	48412
RSE_11	RE1200	Residential	128833	111994	105833
RSE_12	RE1100	Residential	58506	35883	21904
RSE_12	RE1200	Residential	235384	207755	212788
RSE_3	RE1100	Residential	4381	6539	9928
RSE_E	RE1100	Residential	708451	596304	520909
RSE_E	RE1200	Residential	2147656	1891976	1838597
RSE_E1	RE1200	Residential	9167	8111	8182
RSE_E11	RE1200	Residential	2840	2634	2546
RSE_E12	RE1100	Residential	7080	9678	10507
RSE_E12	RE1200	Residential	77205	69201	72977
RSE_EL	RE1100	Residential	18795	17523	17300
RSE_EL	RE1200	Residential	50871	34211	37537
RSE_EL12	RE1200	Residential	8442	6597	7139
RSE_L	RE1100	Residential	60265	36103	20583
RSE_L	RE1200	Residential	1857	0	8598
RSE_L11	RE1200	Residential	7328	4013	0
RSG	623110	Residential	1622	0	0
RSG	623220	Residential	9703	9085	6534
RSG	RE1100	Residential	14498736	12711197	12106702
RSG	RE1200	Residential	12153857	10704562	10062117
RSG	RE1300	Residential	33568	29483	27961
RSGH	623312	Residential	26640	14570	13982
RSGH	RE1000	Residential	0	20921	21972
RSGH	RE1100	Residential	23227698	17066400	13375153
RSGH	RE1200	Residential	10757534	8905416	7110974
RSGH	RE1300	Residential	103800	56344	14082
RSGH_E	RE1100	Residential	3295593	2405477	1953274
RSGH_E	RE1200	Residential	2952080	2393089	2001777
RSGH_E	RE1300	Residential	52152	30381	3592
RSGH_EL	RE1100	Residential	181880	94617	70720
RSGH_EL	RE1200	Residential	96762	98682	96247
RSGH_E_SP	RE1100	Residential	9483	9598	8203
RSGH_E_SP	RE1200	Residential	38327	31051	42647

RSGH_L	236115	Residential	931	1255	901
RSGH_L	RE1100	Residential	367144	212069	151989
RSGH_L	RE1200	Residential	49313	44393	17977
RSGH_SP	RE1100	Residential	65009	39459	33414
RSGH_SP	RE1200	Residential	70592	70011	58090
RSG_1	RE1100	Residential	94209	88589	69603
RSG_1	RE1200	Residential	80296	76854	78248
RSG_11	RE1100	Residential	186620	146051	96764
RSG_11	RE1200	Residential	74519	49416	39539
RSG_12	RE1100	Residential	414063	363218	318830
RSG_12	RE1200	Residential	289442	219901	202011
RSG_2	RE1100	Residential	20276	18998	10731
RSG_E	RE1100	Residential	2514102	2262387	2137890
RSG_E	RE1200	Residential	2592331	2279914	2191453
RSG_E	RE1300	Residential	7171	4311	4606
RSG_E1	RE1100	Residential	12799	11937	12335
RSG_E1	RE1200	Residential	11290	9635	10125
RSG_E11	RE1100	Residential	8199	8764	8777
RSG_E11	RE1200	Residential	11951	10343	11948
RSG_E12	RE1100	Residential	12523	11012	10027
RSG_E12	RE1200	Residential	44227	25491	23195
RSG_E2	RE1100	Residential	9903	7850	6712
RSG_EL	RE1100	Residential	174513	121224	95487
RSG_EL	RE1200	Residential	87877	70189	60494
RSG_L	RE1100	Residential	216105	188749	171929
RSG_L	RE1200	Residential	44222	43763	45063
RSG_L11	RE1100	Residential	8471	9543	8273
RSG_L12	RE1100	Residential	4577	0	0
RSMM	RE2300	Residential	4380803	4143636	4274527
RT01	RE1100	Residential	1280740	1287599	1265712
RT01	RE1200	Residential	1141	1251	267
RT01_E	RE1100	Residential	87357	71222	47301
RT01_EL	RE1100	Residential	12062	12435	13643
RT01_L	RE1100	Residential	13877	13708	14359
RT02	RE1000	Residential	0	764	13450
RT02	RE1100	Residential	68170030	70261760	75805666
RT02	RE1200	Residential	11169732	14270074	19078626
RT02	RE1300	Residential	104283	129588	142473
RT02_E	RE1100	Residential	8243165	8706995	9418525
RT02_E	RE1200	Residential	4836942	5893302	6831249
RT02_E	RE1300	Residential	41911	36865	34621
RT02_EL	RE1100	Residential	614298	617644	605847
RT02_EL	RE1200	Residential	359531	368168	429468
RT02_EL	RE1300	Residential	5899	4606	4439
RT02_L	RE1100	Residential	1898730	1883054	1867707
RT02_L	RE1200	Residential	205120	210203	231966
RT02_L	RE1300	Residential	22275	19820	21012

RTG5	RE1100	Residential	8828	8155	7820
RTT	RE1100	Residential	0	0	5949
RWCH	RE1100	Residential	0	59	1094
RWE	RE1100	Residential	17729	16604	15236
RWEH	RE1100	Residential	13391	13891	17200
RWEH_E	RE1100	Residential	2919	7155	15662
RWE_E	RE1100	Residential	11138	5897	0
RWG	RE1100	Residential	49894	36185	33699
RWGH	RE1100	Residential	41178	31095	19886
RWGH_E	RE1100	Residential	1758	3283	0
RWG_E	RE1100	Residential	29554	16730	13279
SL_COM_M	221312	Street Lighting	13970	13238	13449
SL_COM_M	925190	Street Lighting	33900	36382	36679
SL_COM_M	925190	Street Lighting	24315	30505	67134
TS	237310	Traffic Signals	1726	1613	1853
TS	922610	Traffic Signals	56162	55461	54724
TS	922610	Traffic Signals	150259	154174	154466
TS	925190	Traffic Signals	18994	18416	18553
TS	925190	Traffic Signals	60522	64225	71936

Generator Activity Data
Source: SMAQMD

COMPANY	Po	POStatus	DescriptSpec	Descript	Stno	Street	Citylocat	Ziplocat	HP	Appercd	ADDRESS	CITYMAIL	STATE	ZIP	ACissued	IssueDate	CancelledDate	FuelRate gal/hr	Hours/year	Fuel Use gal/year
AEROJET ROCKETDYNE, INC.	10294	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	50	12/20/1991	PO BOX 13222	SACRAMENTO	CA	95813-6000	1/21/1992	3/22/1993	6/18/2020	4.01	9.75	39.0975
VERIZON WIRELESS	22505	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	11840	FOLSOM BLVD	RANCHO CORDOVA	95742	80	4/15/2010	295 PARKSHORE DRIVE	FOLSOM	CA	95630	6/3/2010	7/7/2011		4.01	9.75	39.0975
VERIZON WIRELESS	22528	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	3261	"C" FITZGERALD RD	RANCHO CORDOVA	95742	80	5/3/2010	295 PARKSHORE DRIVE	FOLSOM	CA	95630	10/22/2010	7/28/2011		4.6	9.75	44.85
ENTERCOM SACRAMENTO	22796	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	15125	WHITE ROCK RD	RANCHO CORDOVA	95742	88	11/5/2010	5345 MADISON AVE	SACRAMENTO	CA	95841	12/14/2010	8/4/2011		5.1	9.75	49.725
AMPAC FINE CHEMICALS	18981	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY		Highway 50 and Hazel Ave.	RANCHO CORDOVA	95700	91.3	11/28/2005	P.O. BOX 1718	RANCHO CORDOVA	CA	95741		1/5/2006		5.1	6.7	34.17
AMPAC FINE CHEMICALS	19005	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY		Highway 50 and Hazel Ave.	RANCHO CORDOVA	95700	96	11/28/2005	P.O. BOX 1718	RANCHO CORDOVA	CA	95741		1/5/2006		5.1	6.9	35.19
CONTRACTORS WAREHOUSE	19390	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	10060	MILLS STATION RD	RANCHO CORDOVA	95827	96	6/15/2006	1695 EUREKA RD	ROSEVILLE	CA	95661	6/27/2006	6/26/2008		4.8	9.75	46.8
VERIZON WIRELESS	18861	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	11167	TRADE CENTER DR	RANCHO CORDOVA	95670	96	10/25/2005	295 PARKSHORE DRIVE	FOLSOM	CA	95630	11/16/2005	1/26/2006		5.2	9.75	50.7
VERIZON WIRELESS	20058	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2239	CHASE DR	RANCHO CORDOVA	95670	96	12/19/2006	295 PARKSHORE DRIVE	FOLSOM	CA	95630	4/27/2007	1/15/2009		5.2	9.75	50.7
VERIZON WIRELESS	20096	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2347	GOLD RIVER RD	RANCHO CORDOVA	95670	96	1/18/2007	295 PARKSHORE DRIVE	FOLSOM	CA	95630	1/25/2007	9/11/2007		5.2	9.75	50.7
VERIZON WIRELESS	21294	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	12525	QUICKSILVER DR	RANCHO CORDOVA	95742	96	7/11/2008	295 PARKSHORE DRIVE	FOLSOM	CA	95630	8/26/2008	3/26/2009		5	9.75	48.75
AMPAC FINE CHEMICALS	23323	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY		Highway 50 and Hazel Ave.	RANCHO CORDOVA	95700	109	2/3/2012	P.O. BOX 1718	RANCHO CORDOVA	CA	95741	10/19/2012	5/23/2013	11/30/2019	6	9.75	58.5
FIRST COVENANT CHURCH	20110	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	10933	PROGRESS CT	RANCHO CORDOVA	95670	128	1/29/2007	P.O. BOX 276450	SACRAMENTO	CA	95670	5/31/2007	6/29/2007		6	9.75	58.5
HOME DEPOT (C/O 3E COMPANY) #0652	13407	ACTIVE	IC ENGINE STANDBY - PUMP - FIRE	IC ENGINE COMPRESSION-STANDBY	2756	SUNRISE BLVD	RANCHO CORDOVA	95670	130	10/1/1997	3207 GREY HAWK CT., SUITE 200	CARLSBAD	CA	92010	12/7/1997	3/26/1998		6	25.8	154.8
AEROJET ROCKETDYNE, INC.	10426	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	134	3/5/1992	PO BOX 13222	SACRAMENTO	CA	95813-6000	3/5/1992	3/2/1993		6	3.9	23.4
AEROJET ROCKETDYNE, INC.	10439	PO-CANCELLED	IC ENGINE STANDBY - PUMP - FIRE	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	152	3/5/1992	PO BOX 13222	SACRAMENTO	CA	95813-6000	3/5/1992	4/9/1993	8/8/2019	6	3.9	23.4
AEROJET ROCKETDYNE, INC.	10440	PO-CANCELLED	IC ENGINE STANDBY - PUMP - FIRE	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	152	3/5/1992	PO BOX 13222	SACRAMENTO	CA	95813-6000	3/5/1992	3/2/1993	8/8/2019	6	3.9	23.4
AEROJET ROCKETDYNE, INC.	18758	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	153	9/1/2005	PO BOX 13222	SACRAMENTO	CA	95813-6000	9/6/2005	11/13/2006	8/29/2019	5.1	11.2	57.12
SACRAMENTO AREA SEWER DISTRICT (SASD)	24271	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	11728	CHRYSANTHY BLVD	RANCHO CORDOVA	95742	157.5	5/29/2014	10060 GOETHE RD	SACRAMENTO	CA	95827		6/18/2014		7.9	22.6	178.54
CONDUENT STATE AND LOCAL SOLUTIONS INC.	26189	ACTIVE	IC ENGINE STANDBY	IC ENGINE COMPRESSION-AG	10390	PETER A MCCUEN BLVD	RANCHO CORDOVA	95655	158	4/10/2019	10390 PETER A. MCCUEN BLVD.	RANCHO CORDOVA	CA	95655		4/19/2019		8.2	9.75	79.95
CSUS AQUATIC CENTER	17643	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	1901	HAZEL AVE	RANCHO CORDOVA	95670	160	4/1/2004	1901 HAZEL AVE	RANCHO CORDOVA	CA	95670	4/20/2004	11/30/2004		9.9	9.75	96.525
SACRAMENTO REG. COUNTY SANITATION DISTRICT	17092	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY		CHASE DR WEST END	RANCHO CORDOVA	95670	177	5/6/2003	8521 LAGUNA STATION ROAD	ELK GROVE	CA	95758	8/5/2003	7/6/2004		9.9	2	19.8
GPT PROPERTIES TRUST DBA BUREAU OF AUTOMOTIVE REPA	24631	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	10949	N. MATHER DR	RANCHO CORDOVA	95670	197	5/4/2015	915 L ST, STE. 1250	SACRAMENTO	CA	95814		5/28/2015		9.9	9.75	96.525
STATE OF CALIF FISH & GAME-AMERICAN RIVER HATCHERY	25456	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2101	NIMBUS RD	RANCHO CORDOVA	95670	208	9/5/2017	2101 NIMBUS RD	RANCHO CORDOVA	CA	95670	12/14/2017	7/30/2018		10.3	8.6	88.58
AEROJET ROCKETDYNE, INC.	23613	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	217	11/15/2012	PO BOX 13222	SACRAMENTO	CA	95813-6000	4/10/2013	9/12/2014		11.7	58.3	682.11
AEROJET ROCKETDYNE, INC.	22892	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	230	1/24/2011	PO BOX 13222	SACRAMENTO	CA	95813-6000	5/6/2011	1/11/2013		11.7	82.2	961.74
HEALTHNET FEDERAL SERVICES	24437	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2006	AEROJET RD	RANCHO CORDOVA	95670	230	11/5/2014	11971 FOUNDATION PLACE	RANCHO CORDOVA	CA	95670	2/4/2015	4/30/2015	7/31/2020	11.7	25.7	300.69
HOME DEPOT (C/O 3E COMPANY) #0652	22797	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2756	SUNRISE BLVD	RANCHO CORDOVA	95670	237	11/8/2010	3207 GREY HAWK CT., SUITE 200	CARLSBAD	CA	92010	12/15/2010	10/18/2011		11.7	16.9	197.73
NIDEC MOTOR CORPORATION DBA MOTION CONTROL ENGINEE	24983	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	11380	WHITE ROCK RD	RANCHO CORDOVA	95742	248	5/25/2016	11380 WHITE ROCK RD	RANCHO CORDOVA	CA	95742		6/15/2016		13.9	9.75	135.525
AMPAC FINE CHEMICALS	20429	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY		Highway 50 and Hazel Ave.	RANCHO CORDOVA	95700	250	7/26/2007	P.O. BOX 1718	RANCHO CORDOVA	CA	95741	8/24/2007	12/4/2007		13.9	5.7	79.23
COSTCO WHOLESALE C/O BARGHAUSEN	13621	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	11260	WHITE ROCK RD	RANCHO CORDOVA	95742	250	2/26/1998	18215 72ND AVE SOUTH	SEATTLE	WA	98032	2/26/1998	6/19/1998		13.9	9.75	135.525
LAKE NATOMA ASSOC DBA SACTO DEPT OF CORRECTIONS	23350	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	1960	BIRKMONT DR	RANCHO CORDOVA	95742	250	2/29/2012	1855 OLYMPIC BLVD, #250	WALNUT CREEK	CA	94596		3/14/2012	9/13/2021	12.4	20.5	254.2
AEROJET ROCKETDYNE, INC.	24675	PO-CANCELLED	IC ENGINE STANDBY	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	260	6/25/2015	PO BOX 13222	SACRAMENTO	CA	95813-6000	12/3/2015	1/31/2017	2/25/2019	15.4	9.75	150.15
AEROJET ROCKETDYNE, INC.	24676	PO-CANCELLED	IC ENGINE STANDBY	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	260	6/25/2015	PO BOX 13222	SACRAMENTO	CA	95813-6000	12/3/2015	1/31/2017	2/25/2019	15.4	9.75	150.15
AEROJET ROCKETDYNE, INC.	24677	PO-CANCELLED	IC ENGINE STANDBY	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	260	6/25/2015	PO BOX 13222	SACRAMENTO	CA	95813-6000	12/3/2015	1/31/2017	2/25/2019	15.4	9.75	150.15
AMPAC FINE CHEMICALS	25980	ACTIVE	IC ENGINE STANDBY - PUMP - FIRE	IC ENGINE COMPRESSION-STANDBY		Highway 50 and Hazel Ave.	RANCHO CORDOVA	95700	260	11/8/2018	P.O. BOX 1718	RANCHO CORDOVA	CA	95741		2/28/2019		15.4	25.6	394.24
AMPAC FINE CHEMICALS	25981	ACTIVE	IC ENGINE STANDBY - PUMP - FIRE	IC ENGINE COMPRESSION-STANDBY		Highway 50 and Hazel Ave.	RANCHO CORDOVA	95700	260	11/8/2018	P.O. BOX 1718	RANCHO CORDOVA	CA	95741		2/28/2019		15.4	25.6	394.24
AMPAC FINE CHEMICALS	25983	ACTIVE	IC ENGINE STANDBY - PUMP - FIRE	IC ENGINE COMPRESSION-STANDBY		Highway 50 and Hazel Ave.	RANCHO CORDOVA	95700	260	11/8/2018	P.O. BOX 1718	RANCHO CORDOVA	CA	95741		2/28/2019		15.4	25.9	398.86
AEROJET ROCKETDYNE, INC.	10423	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	299	3/5/1992	PO BOX 13222	SACRAMENTO	CA	95813-6000	3/5/1992	3/2/1993		15.4	2.8	43.12
CITY OF RANCHO CORDOVA	23976	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2897	KILGORE RD	RANCHO CORDOVA	95670	312	9/20/2013	2729 PROSPECT PARK DR	RANCHO CORDOVA	CA	95670	12/2/2013	2/4/2014		15.4	11.1	170.94
GREENPATH PROPERTIES	24462	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2721	CITRUS RD, STE B	RANCHO CORDOVA	95742	315	12/9/2014	2721 CITRUS RD, STE B	RANCHO CORDOVA	CA	95742		1/8/2015		24.5	17.3	423.85
DIGNITY HEALTH	17051	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	3400	DATA DR	RANCHO CORDOVA	95670	317	4/15/2003	3400 DATA DRIVE	RANCHO CORDOVA	CA	95670	4/23/2003	7/23/2003		3.1	29.1	90.21
AEROJET ROCKETDYNE, INC.	14748	PO-CANCELLED	IC ENGINE STANDBY	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	335	10/13/1999	PO BOX 13222	SACRAMENTO	CA	95813-6000	12/27/1999	5/31/2000	1/30/2019	16.4	22.3	365.72
AEROJET ROCKETDYNE, INC.	10446	PO-CANCELLED	IC ENGINE STANDBY - PUMP - FIRE	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	340	3/5/1992	PO BOX 13222	SACRAMENTO	CA	95813-6000	3/5/1992	3/2/1993	8/8/2019	16.4	3.9	63.96
SAFE CREDIT UNION	24168	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	12519	FOLSOM BLVD	RANCHO CORDOVA	95742	364	3/14/2014	2295 IRON POINT ROAD, STE. 100	FOLSOM	CA	95630	5/8/2014	5/4/2016		16.4	2.9	47.56
WELLS FARGO / JONES LANG LASALLE	17826	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	11000	WHITE ROCK RD	RANCHO CORDOVA	95670	370	7/13/2004	1510 ARDEN WAY, SUITE 102	SACRAMENTO	CA	95815	7/29/2004	12/17/2004	7/29/2020	17.6	9.75	171.6
HEALTHNET FEDERAL SERVICES	23693	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2015	AEROJET RD	RANCHO CORDOVA	95742	385	2/5/2013	11971 FOUNDATION PLACE	RANCHO CORDOVA	CA	95670	2/28/2013	9/17/2013	7/31/2020	17.6	27.23	479.248
US SPRINT	17888	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	3065	GOLD CAMP DR	RANCHO CORDOVA	95670	395	8/13/2004	P.O. BOX 7994	SHAWNEE MISSION	KS	66207-0994	8/20/2004	10/5/2004		18	13.52	243.36
COUNTY OF SACRAMENTO DEPT OF WATER QUALITY	20552	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	11922	ELK VIEW WAY	RANCHO CORDOVA	95742	398	9/24/2007	10060 GOETHE RD	SACRAMENTO	CA	95827	9/28/2007	1/28/2008		19.4	26	504.4
LAKE NATOMA ASSOC DBA SACTO DEPT OF CORRECTIONS	23349	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	1960	BIRKMONT DR	RANCHO CORDOVA	95742	422	2/29/2012	1855 OLYMPIC BLVD, #250	WALNUT CREEK	CA	94596		3/14/2012	9/13/2021	22.3	20.8	463.84
AMPAC FINE CHEMICALS	18956	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY		Highway 50 and Hazel Ave.	RANCHO CORDOVA	95700	474	11/28/2005	P.O. BOX 1718	RANCHO CORDOVA	CA	95741		1/5/2006		27	15.6	421.2
FEDERAL HOME LOAN BANK OF SAN FRANCISCO	16102	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	11050	WHITE ROCK ROAD	RANCHO CORDOVA	95742	490	11/14/2001	P.O. BOX 7948	SAN FRANCISCO	CA	94120	11/29/2001	6/13/2002		27	16	432
AEROJET ROCKETDYNE, INC.	23151	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	499	8/4/2011	PO BOX 13222	SACRAMENTO	CA	95813-6000	2/7/2012	1/21/2014	2/13/2020	27	9.75	263.25
AEROJET ROCKETDYNE, INC.	23152	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	499	8/4/2011	PO BOX 13222	SACRAMENTO	CA	95813-6000	2/8/2012	1/23/2014	2/13/2020	27	9.75	263.25
AEROJET ROCKETDYNE, INC.	23153	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	499	8/4/2011	PO BOX 13222	SACRAMENTO	CA	95813-6000	2/8/2012	1/23/2014	2/13/2020	27	9.75	263.25
AEROJET ROCKETDYNE, INC.	23154	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	499	8/4/2011	PO BOX 13222	SACRAMENTO	CA	95813-6000	2/8/2012	1/23/2014	2/13/2020	27	9.75	263.25
AEROJET ROCKETDYNE, INC.	23155	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	499	8/4/2011	PO BOX 13222	SACRAMENTO	CA	95813-6000	2/8/2012	1/23/2014		27	44.6	1204.2
AEROJET ROCKETDYNE, INC.	23156	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	499	8/4/2011	PO BOX 13222	SACRAMENTO	CA	95813-6000	2/8/2012	1/23/2014		27	9.75	263.25
AEROJET ROCKETDYNE, INC.	23157	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	499	8/4/2011	PO BOX 13222	SACRAMENTO	CA	95813-6000	2/9/2012	1/23/2014		27	34.2	923.4
HAAS GROUP INTERNATIONAL	23563	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	4901	DELAWARE ST	RANCHO CORDOVA	95742	538	9/10/2012	4901 DELAWARE	RANCHO CORDOVA	CA	95742	10/24/2012	9/3/2014		27	9.75	263.25
CITY OF RANCHO CORDOVA	21482	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2729	PROSPECT PARK DR	RANCHO CORDOVA	95670	550	9/25/2008	2729 PROSPECT PARK DR	RANCHO CORDOVA	CA	95670	12/4/2008	2/4/2009		27	10.21	275.67
FOLSOM CORDOVA SCHOOL DIS	23256	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	1965	ALABAMA AVE	RANCHO CORDOVA	95742	550	11/16/2011	11458 ELKS CIR	RANCHO CORDOVA	CA	95742	12/6/2011	10/5/2012		88.5	9.75	862.875
LOWES HIW INC	20232	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	3251	ZINFANDEL DR	RANCHO CORDOVA	95660	550	4/17/2007	1000 LOWES BLVD RFS-92	MOORESVILLE	NC	28117	5/21/2007	10/3/2008		28.3	9.75	275.925
CITY OF RANCHO CORDOVA	24562	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY		BEAR HOLLOW DR & N.MATHER	RANCHO CORDOVA	95670	563	3/20/2015	2729 PROSPECT PARK DR	RANCHO CORDOVA	CA	95670		5/1/2015		28.3	8.7	246.21
GOLDEN STATE WATER COMPANY -- R1	18727	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	3445	OSELOT WAY	RANCHO CORDOVA	95670	563	8/19/2005	630 EAST FOOTHILL BLVD	SAN DIMAS	CA	91773	9/8/2005	2/23/2006		25.2	9.75	245.7
AEROJET ROCKETDYNE, INC.	24715	PO-CANCELLED	IC ENGINE STANDBY	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	568	9/24/2010	PO BOX 13222	SACRAMENTO	CA	95813-6000	1/21/2011	9/26/2012	1/30/2019	27.9	3.6	100.44
DATACATE INC	25903	ACTIVE	IC ENGINE STANDBY	IC ENGINE COMPRESSION - AG	2999	GOLD CANAL DR	RANCHO CORDOVA	95670	585	8/31/2018	2999 GOLD CANAL DR	RANCHO CORDOVA	CA	95670	10/8/2018	6/20/2019		27.9	4.46	124.434
LUM YIP KEE LIMITED, INC., c/o DONOHOE & COMPANY	17840	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	10540	WHITE ROCK RD	RANCHO CORDOVA	95760	600	7/22/2004	2240 DOUGLAS BLVD., #260	ROSEVILLE	CA	95661		8/17/2004	8/17/2020	10	2.2	22
CEGM RANCHO CORDOVA, LLC	25867	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	3300	ZINFANDEL DR	RANCHO CORDOVA	95670	605	7/30/2018	3005 DOUGLAS BLVD, STE 130	ROSEVILLE	CA	95661		8/30/2018		15	9.75	146.25
AEROJET ROCKETDYNE, INC.	22717	PO-CANCELLED	IC ENGINE STANDBY	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	619	9/24/2010	PO BOX 13222	SACRAMENTO	CA	95813-6000	1/21/2011	9/27/2012	1/7/2019	33.1	3.6	119.16
AEROJET ROCKETDYNE, INC.	22491	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	713	4/2/2010	PO BOX 13222	SACRAMENTO	CA	95813-6000	9/23/2010	8/16/2012		33.1	11.8	390.58
NOVITEX ENTERPRISE SOLUTIONS	24347	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	11311	WHITE ROCK RD	RANCHO CORDOVA	95742	752	8/5/2014	11311 WHITE ROCK RD	RANCHO CORDOVA	CA	95742		8/21/2014	4/14/2021	33.1	9.75	322.725
H.V. HOUSTON DEVELOPMENT (DBA MARRIOT HOTEL)	16807	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	11211	POINT EAST DR	RANCHO CORDOVA	95742	755	12/13/2002	11211 POINT EAST DR	RANCHO CORDOVA	CA	95742	12/13/2002	2/12/2003		35.2	9.75	343.2
RAINTREE REALTY II, LLC C/O BASIN STREET PRO	25762	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	10911	WHITE ROCK RD	RANCHO CORDOVA	95670	755	5/15/2018	10860 GOLD CENTER DR	RANCHO CORDOVA	CA	95670		8/20/2018		35.2	41.6	1464.32
RAINTREE REALTY II, LLC C/O BASIN STREET PRO	25763	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	10911	WHITE ROCK RD	RANCHO CORDOVA	95670	755	5/15/2018	10860 GOLD CENTER DR	RANCHO CORDOVA	CA	95670		8/20/2018		35.2	41.2	1450.24
AMPAC FINE CHEMICALS	19534	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY		Highway 50 and Hazel Ave.	RANCHO CORDOVA	95700	757	9/11/2006	P.O. BOX 1718	RANCHO CORDOVA	CA	95741	9/27/2006	7/5/2007		54	1.2	64.8
COMCAST OF SACRAMENTO	17311	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	6901	ROSEVILLE RD (HEADEND)	RANCHO CORDOVA	95842	764	9/16/2003	1242 NATIONAL DR	SACRAMENTO	CA	95834	10/21/2003	6/1/2004	1/8/2021	36.3	1.7	61.71
SACRAMENTO REG. COUNTY SANITATION DISTRICT	17091	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY		CHASE DR WEST END	RANCHO CORDOVA	95670	772	5/6/2003	8521 LAGUNA STATION ROAD	ELK GROVE	CA	95758	6/5/2003	5/21/2004		40	33.9	1356
AEROJET ROCKETDYNE, INC.	22957	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	809	3/11/2011	PO BOX 13222	SACRAMENTO	CA	95813-6000	3/24/2011	2/5/2013		40	30.23	1209.2
AEROJET ROCKETDYNE, INC.	23806	PO-CANCELLED	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	2001	AEROJET RD	RANCHO CORDOVA	95742	831	5/9/2013	PO BOX 13222	SACRAMENTO	CA	95813-6000	7/9/2013	5/29/2015	2/12/2020	40	9.75	390
BLACKROCK FINANCIAL MANAGEMENT, INC	22516	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	10850	GOLD CENTER DR.	RANCHO CORDOVA	95670	880	4/22/2010	400 HOWARD ST	SAN FRANCISCO	CA	94105		5/24/2010		40	9.75	390
EDGECONNEX SACRAMENTO HOLDINGS, LLC	24306	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	10980	GOLD CENTER DR	RANCHO CORDOVA	95670	896	6/27/2014	2201 COOPERATIVE WAY	HERNDON	VA	20171	9/10/2014	8/10/2016		40	74.8	2992
EDGECONNEX SACRAMENTO HOLDINGS, LLC	24307	ACTIVE	IC ENGINE STANDBY - GENERATOR	IC ENGINE COMPRESSION-STANDBY	10980	GOLD CENTER DR	RANCHO CORDOVA	95670	896	6/27/2014	2201 COOPERATIVE WAY	HERNDON	VA	20171	9/10/2014	8/10/2016		40	76.5	3060
EDGECONNEX SACRAMENTO HOLDINGS, LLC	25531	ACTIVE	IC ENGINE STANDBY - G

VMT Activity Data

Source: Fehr & Peers

	2016	2019	2027	2030	2035	2040	2045	2050
daily VMT	2,408,283	2,516,684	2,805,753	2,933,217	3,145,658	3,348,275	3,579,727	3,827,179
annual VMT	879,625,366	919,218,798	1,024,801,283	1,071,357,646	1,148,951,585	1,222,957,444	1,307,495,381	1,397,877,073
% Change from 2019			11%	17%	25%	33%	42%	52%

Table 1: Comparison of total daily VMT by origin-destination with Year 2016

	Year 2016	Year 2027		Year 2035		Year 2040	
City of Rancho Cordova Share of Daily VMT	VMT	VMT	% Change Compared to 2016	VMT	% Change Compared to 2016	VMT	% Change Compared to 2016
Origin and Destination Internal	242,951	328,315	135.1%	420,644	173.1%	469,275	193.2%
Origin Internal/Destination External	1,079,248	1,235,084	114.4%	1,360,504	126.1%	1,436,124	133.1%
Origin External/Destination Internal	1,086,084	1,242,354	114.4%	1,364,510	125.6%	1,442,876	132.9%
All Sources	**2,408,283**	**2,805,753**	116.5%	**3,145,658**	130.6%	**3,348,275**	139.0%

Water Activity Data

Table 1
Summary of Water Supply and Demand for Water Purveyors in the City of Rancho Cordova General Plan Planning Area

	Year	2010	2015	2020	2025	2030
SCWA Zone 40	Supply[1]					
	Surface Water	13,060	44,143	48,772	68,700	69,567
	Groundwater	34,125	28,837	40,470	31,324	39,097
	Recycled Water	4,400	4,400	4,400	4,400	4,400
	Total Supply	**51,585**	**77,380**	**93,642**	**104,424**	**113,064**
	Total Demands[1]	**51,585**	**77,380**	**93,642**	**104,424**	**113,064**
	Surplus/Deficit	**0**	**0**	**0**	**0**	**0**
Supply Allocated for SCWA Zone 40 North Service Area (NSA)—Within City's Planning Area (defined in Section 4.1.3)	***Supply***					***37,314[2]***
GSWC (all of GSWC's service area is within City's planning area)	Supply[3]					
	Surface Water	15,000	15,000	15,000	15,000	15,000
	Groundwater	9,518	10,499	10,814	10,829	10,829
	Total Supply	**24,518**	**25,499**	**25,814**	**25,829**	**25,829**
	Demands[2]	**19,518**	**20,499**	**20,814**	**20,829**	**20,829**
	Surplus/Deficit	**5,000**	**5,000**	**5,000**	**5,000**	**5,000**

Table 1
Summary of Water Supply and Demand for Water Purveyors in the City of Rancho Cordova General Plan Planning Area

	Year	2010	2015	2020	2025	2030
Cal-Am	Supply[3]					
	Groundwater	43,600	33,650	34,180	33,550	33,910
	Wholesale Purchases	4,020	16,860	18,320	20,830	22,280
	Total Supply	**47,620**	**50,510**	**52,500**	**54,380**	**56,190**
	Demands[4]	**47,620**	**50,510**	**52,500**	**54,380**	**56,190**
	Surplus/Deficit	**0**	**0**	**0**	**0**	**0**
Supply Allocated for Cal-Am's Service Area within the City's Planning Area	***Supply***					***14,477***
City of Rancho Cordova General Plan Planning Area	Supply Available from Purveyors					**77,620[5]**
	Projected Demands					
	Corporate City Limits (2030)a					57,299
	Non-City Area[6]					71,410
	Total Demands					**128,709**
	Surplus/(Deficit)					**(51,089)**

Notes:
1. Data from SCWA Zone 41 UWMP, Table 5-1 and 5-2. Because SCWA would implement a conjunctive use water supply program, water supplies would never exceed projected demands because groundwater would be pumped and surface water would be used to meet, not exceed water demands. Supply and demand based on normal year type. (SWCA 2005b)
2. This supply is part of Zone 40's 2030 water supplies of 113,064 afy (SCWA 2005a).
3. Data from GSWC UWMP Table 3-1 and 4-9. Supply exceeds demand because GSWC does not plan to use 5,000 afy of its SMUD Water Transfer entitlement due to limited surface water treatment capacity and its desire to maintain its groundwater rights through the Aerojet Replacement Water operations. (GSWC 2005)
4. Data from Cal-Am UWMP. (Cal-Am 2006)
5. Sum of SCWA (37,314 afy), GSWC (25,829 afy), and Cal-Am's (14,477 afy) water supplies identified for the City's planning area.
6. Buildout for non-city area of Rancho Cordova projected to occur after 2030.

Source: City of Rancho Cordova Water Supply Evaluation
Microsoft Word - Rancho Water Supply Report 3.7.06.doc (cityofranchocordova.org)

	AF/year	
	2019	**2030**
Total Demand	87,990.30	128,709.00

	2010	2015	**2019**	2020	2025	2030
SCWA						37314
Surface Water	**13060**	**44143**	**47846.2**	**48772**	**68700**	**69567**
% of total	25%	57%	53%	52%	66%	62%
Ground Water	**34125**	**28837**	**38143.4**	**40470**	**31324**	**39097**
% of total	66%	37%	42%	43%	30%	35%
Recycled Water	**4400**	**4400**	**4400**	**4400**	**4400**	**4400**
% of total	9%	6%	5%	5%	4%	4%
Total Supply	**51585**	**77380**	**90389.6**	**93642**	**104424**	**113064**
% change from 2030		50%	17%	4%	12%	8%
City Planning Area	*13238*	*13238*	*26478*	*31830*	*33018*	*37314*
Surface Water	*3351*	*7552*	*14016*	*16578*	*21722*	*22958.88203*
Ground Water	*8757*	*4933*	*11174*	*13756*	*9904*	*12903*
Recycled Water	*1129*	*753*	*1289*	*1496*	*1391*	*1452*
Total	*13238*	*13238*	*26478*	*31830*	*33018*	*37314*
GSWC						
Surface Water	15000	15000	15000	15000	15000	15000
Ground Water	9,518	10,499	**10751**	10,814	10,829	10,829
Total Supply	24,518	25499	**25751**	25814	25829	25829
Cal-Am						14477
Ground Water	**43600**	**33650**	**34074**	**34180**	**33550**	**33910**
% of total	92%	67%	65%	65%	62%	60%
Wholesale Purchase	**4020**	**16860**	**18028**	**18320**	**20830**	**22280**
% of total	8%	33%	35%	35%	38%	40%
Total Supply	**47620**	**50510**	**52102**	**52500**	**54380**	**56190**
% change from 2030		6%	3%	1%	4%	3%
City Planning Area	*12601*	*12601*	*13415*	*13852*	*13959*	14477
Ground Water	*11537*	*8395*	*8773*	*9018*	*8612*	*8737*
Wholesale Purchase	*1064*	*4206*	*4642*	*4834*	*5347*	*5740*
Total	*12601*	*12601*	*13415*	*13852*	*13959*	*14477*

Summary of GHG Emissions (CO2e MT/yr) Associated with Process and Conveyance of Wastewater

2019

Community	**Process Emissions**	**Conveyance Emissions**	**TOTAL**
	MT CO2e		
Indirect (electricity)	2,346		
N20 effluent	3,203		
N20 process	152		
Biogas	173		
Total	5,874	346	6,220

2030 (BAU NO LEG REDUCT)

Community	Process Emissions	Conveyance Emissions	
Indirect (electricity)	2,954		
N20 effluent	4,032		
N20 process	152		
Biogas	218		
Total (MT CO2E)	7,356	4,359	11,715

2030 (LEG REDUCT, RPS)

Community	Process Emissions	Conveyance Emissions	
Indirect (electricity)	0		
N20 effluent	4,032		
N20 process	152		
Biogas	218		
Total (MT CO2E)	4,403	0	4,403

WW Conveyance Emissions Summary			
2019	KWH	MWh	CO2e
Community	1,484,320	1484.32	346

2030 (NO LEG REDUC)			2030 (W LEG REDUC)	
	MWH	CO2e	MWH	CO2e
Community	18706.72	4358.94	18706.72085	0

Effluent/Person Served 0.030 MG/Person

Population Data

City	**139,571**	City's 2019 Service Population
County Employees		Employee Data, Sac County. Todd Taylor
SRCSD Service Population	**1,400,000**	Steve Nebozuk (SRCSD) phone conversation with Dimitri on 9/14/2016

Wastewater Conveyance Intensity Factor Calculation

Energy Data (pumping/conveyance)

		Unit	Data Year	Source
SASD	3,388,861	KWH	FY 2014/2015	Christoph Dobson and Wayne Zhuang, SASD on 9/14/2016
SRCSD	11,500,000	KWH	2013	Steve Nebozuk, SRCSD on 9/14/2016
TOTAL	14,888,861	KWH	2015	Used to represent 2015, best available data was used.

Effluent Data (represents all water treated within SRCSD service population)

		Unit	Data Year	Source
SRCSD	41,975	Million Gallons/Yr	2019	State of the District 2019 Report
~~Adjusted~~	~~31,481~~	~~Million Gallons/Yr~~	~~2019~~	Salam Khan, SASD on 9/16/2016 indicated that City of Folsom, Sacramento, and W. Sac use energ to pump their WW to SRCSD. As such the KWH obtained from SRCSD service population was being underestimated when used in conjunction with the total effluent from the entire serice population. To adjust for this, the total effluent associated with Sacramento, W. Sac, and Folsom, was adjusted by 25%

WW Conveyance Intensity Factor

354.71 Kwh/MGallon

Annual Growth Rates
Population
Employment

SRWTP Existing Electricity Consumption

2019

Total	10,067,581	kwh/yr

Emissions Calculations

Annual electricity consumption	10,067,581	kW-hr/year
electricity conversion rate	1,000	KW-hr/MW-hr
Annual electricity consumption	10,068	MW-hr/year
Electricity provider	SMUD	unitless
Utility's CO2-e emission factor	0.233	MT/MW-hr

2019

Total Annual Community Indirect CO2e (metric tons) 2,346

2030

Emissions Calculations

Annual electricity consumption	12,675,581	kW-hr/year
electricity conversion rate	1,000	KW-hr/MW-hr
Annual electricity consumption	12,676	MW-hr/year
Electricity provider	SMUD	unitless
Utility's CO2-e emission factor	0.000	MT/MW-hr

2030

Total Annual Community Indirect CO2e (metric tons) -

2030

	NO LEG RED	W LEG RED (RPS)
Total Annual Community Indirect CO2e (metric tons)	2,954	-
		-

Supplemental Calculations

Unincorporated Sac County Per Capita Energy Use Calculation

		Source
100,985,526	Kwh/yr	Steve Nebozuk (SRCSD) email to Dimitri Antoniou (Ascent) 8/10/2016
1,400,000	Service Population	Steve Nebozuk (SRCSD) phone discussion with Dimitri Antoniou (Ascent) 8/10/2016
72	kwh/person	
139,571	2019 City Service Population	
10,067,581	2019 RC kWh	
175,726	2030 City Service Population	
12,675,581	2019 RC kWh	

Equation 10.3.2.2 Process N2O Emissions from WWTP Without Nitrification/Denitrification

2019

Inputs

Value	Unit	Description
139,571	people	2019 City Service Population
1.25	constant	co-discharge waste into sewer
3.2	g N2O/person/year	emission factor for nitrification/denitrification
273	GWP	N2O

Annual N2O emissions (metric tons CO2e)	152
Annual N2O Municipal emissions (MT CO2e)	0.00

Conversion Factor

1g	0.000001	mt/g

2030

Inputs

Value	Unit	Description
139,571	people	Population

Annual N2O emissions (metric tons CO2e)	152

SRWTP Biogas (methane) Combustion

2019

DIRECT EMISSIONS-WWTP Process Emissions

Equation 10.2 Stationary CH4 from Incomplete Combustion of Digester Gas

Inputs

Term	Value	Unit	Description
population	139,571	people	2019 City Service Population
Digester Gas	1.00	ft^3/person/day	cubic feet of digester gas produced per person per day
Fraction Methane	0.650	constant	fraction of methane in biogas
Density Methane	662.000	g/m^3	density of methane
Destruction Efficiency	0.99	constant	methane destruction efficiency
Conversion Factor	0.0283	constant	conversion from ft^3 to m^3
Conversion Factor	365.25	constant	conversion from days to year
Conversion Factor	0.000001	constant	conversion from g to metric tons
GWP	27.9	constant	global warming potential of methane for CO2e
2030 Community pop	175,726		

	2019	**2030**
Annual CO2e emissions (MT)	173	218

Source

California Air Resource Board, California Climate Action Registry, Local Governments for Sustainability, The Climate Registry (2010). Local Government Operations Protocol-For the quantification and reporting of greenhouse gas emissions inventories. Version 1.1.

SRWTP N20 Effluent Emissions

2019

DIRECT EMISSIONS-WWTP Process Emissions

Equation 10.10 Process N2O Emissions from Effluent Discharge[1c]

Inputs

Term	Value	Unit	Description
City	139,571	people	2019 City Service Population
constant	1.25	Constant	co-discharge waste into sewer
N load	0.026	kg N/person/day	N per person served
N uptake	0.050	kg N/kg BOD	nitrogen uptake for cell growth in aerobic system
N2O effluent Emission Factor	0.005	kg N2O N/kg sewage-N	
BOD Load	0.09	kg BOD/person/day	
constant	1.57	Constant	molecular weight ratio N2O to N2
constant	0	Constant	fraction of nitrogen removed from nitrification/denitrification
Conversion Factor	365	days/year	
Coversion Factor	0.001	metric ton/kg	
N20 Global Warming Potential	298	GWP	

2030 Community pop 175,726

	2019	2030
Annual Community CO2e emissions (MT)	3,203	4,032

Source

California Air Resource Board, California Climate Action Registry, Local Governments for Sustainability, The Climate Registry (2010). Local Government Operations Protocol-For the quantification and reporting of greenhouse gas emissions inventories. Version 1.1.

Appendix C

Greenhouse Gas Forecast and Reduction Target (Technical Memorandum)

Memo

455 Capitol Mall, Unit 300
Sacramento, CA 95814
916.444.7301

Date: March 29, 2022 (original)
February 23, 2023 (revised)

To: Stefan Heisler and Darcy Goulart (City of Rancho Cordova)

From: Alyssa Way, Andrew Martin, and Honey Walters (Ascent Environmental)

Subject: City of Rancho Cordova Climate Action Plan, Greenhouse Gas Emissions Forecasts and Reduction Targets – Technical Memorandum

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INTRODUCTION

In 2009, the County of Sacramento prepared a baseline inventory for the unincorporated county and the incorporated cities, including specifically a 2005 baseline year inventory for the City of Rancho Cordova (City). The Sacramento Area Council of Governments (SACOG) 2020 Metropolitan Transportation Plan / Sustainable Communities Strategy (MTP/SCS) Draft Environmental Impact Report included a greenhouse gas (GHG) emissions inventory and forecast for 2016, 2030, 2040, and 2050 that included the City. Though the City was considered in both efforts, an updated communitywide GHG emissions inventory using the latest methodologies with a more recent 2019 baseline year has been prepared for the City's Climate Action Plan (CAP). The next step in this update process is to forecast these GHG emissions for the 2030 target year and 2045 goal. This technical memorandum provides the results of these forecasts as well as associated methods, assumptions, emissions factors, and data sources.

The GHG emissions forecasts will provide a foundation for the forthcoming steps of the CAP development process, including the development of GHG emissions reduction targets and identification of measures the City can take to reduce GHG emissions from activities and sources located in Rancho Cordova.

ORGANIZATION OF THIS MEMORANDUM

This memorandum consists of two main parts:

- Section 1: Summary of Inventory Results presents an overview of the updated GHG emissions inventory (baseline 2019).
- Section 2: Emissions Forecasts summarizes the forecasted GHG emissions under "business-as-usual" (BAU) and legislative-adjusted BAU scenarios for years 2030 and 2045. A BAU scenario is one in which no GHG reductions from actions taken by local, regional, State, or federal agencies are included. A legislative-adjusted BAU scenario reflects GHG reductions from legislative or regulatory actions enacted by regional, State, and federal agencies, without considering any local (City) actions to reduce GHG emissions.

1 SUMMARY OF INVENTORY RESULTS

1.1 2019 COMMUNITY INVENTORY RESULTS

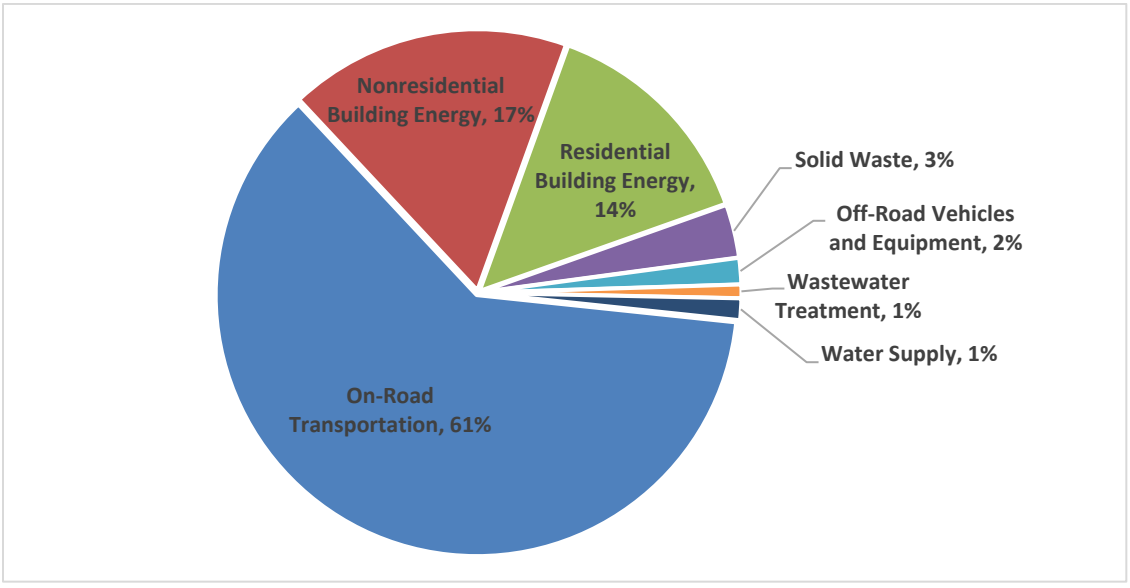
Based on the modeling conducted, community activities in 2019 generated approximately 679,706 metric tons of carbon dioxide equivalent ($MTCO_2e$). Major emissions sectors included on-road transportation, residential and nonresidential building energy use, solid waste, water use, and wastewater generation. Table 1 and Figure 1 present the city's 2019 GHG emissions inventory by sector. A description of each emissions sector, including key sources of emissions, is provided in the Inventory Technical Memorandum, dated March 29, 2022.

Table 1 2019 City of Rancho Cordova Community Greenhouse Gas Emissions Inventory

Sectors	$MTCO_2e$/year	Percent of Total
On-Road Transportation	417,145	61%
Nonresidential Building Energy	118,801	17%
Residential Building Energy	95,575	14%
Solid Waste	22,397	3%
Off-Road Vehicles and Equipment	11,027	2%
Water Supply	9,071	1%
Wastewater Treatment	5,690	1%
Total	679,706	100%

Notes: $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year

Source: Ascent Environmental 2022



Source: Ascent Environmental 2022

Figure 1 2019 City of Rancho Cordova Community Greenhouse Gas Emissions Inventory

2 GREENHOUSE GAS EMISSIONS FORECASTS TO 2030

2.1 COMMUNITY FORECAST RESULTS

The BAU GHG emissions forecasts provide an assessment of how emissions generated by community activities will change over time without further local, State, or federal action. In addition to accounting for the city's growth under a BAU scenario, an adjusted BAU forecast was prepared, which includes adopted legislative and regulatory actions at the State and federal levels that would affect emissions without any local action, such as regulatory requirements to increase vehicle fuel efficiency and increase renewable energy sources in grid electricity portfolios. It is important to note that the legislative-adjusted BAU emissions forecasts only include emissions reductions associated with implementation of adopted federal and State legislation and regulations and do not include goals established by executive orders or targets established by federal or State agencies outside of adopted legislation and regulations. These forecasts provide the City with the information needed to focus efforts on emissions sectors and sources that have the greatest opportunities for GHG emissions reductions.

The BAU forecasts described in this section for 2030 and 2045 are aligned with statewide GHG reduction targets established in State law Senate Bill (SB) 32 and Assembly Bill (AB) 1279. The State GHG reduction targets are to reduce statewide emissions levels to:

- 40 percent below 1990 levels by 2030 (SB 32); and
- net zero with at least an 85 percent reduction from 1990 levels for anthropogenic sources (AB 1279).

Estimated BAU emissions forecasts were based on population and employment from the SACOG Growth Forecast for the 2020 Metropolitan Transportation Plan/Sustainable Communities Strategy (MTP/SCS). The SACOG Growth Forecast provides population and employment for 2016 and 2040. These values were interpolated and extrapolated to identify values for 2019, 2030, and 2045. Population and employment are expected to increase by 62 and 36 percent from 2019 to 2045, respectively. These growth factors were used to forecast BAU emissions for most sectors. Additional information regarding the growth factors used for each sector is included in the following sections. Fehr & Peers provided annual vehicle miles traveled (VMT) projections for the years 2027, 2035, and 2040 based on origin-destination data provided by SACOG. Based on these data, annual VMT was interpolated for year 2030 and projected out for 2045. Annual VMT by 2045 is projected to increase by 42 percent from 2019. VMT projections were used to scale emissions from the on-road transportation sector. Table 2 shows projections growth in the city from 2019 to 2045.

Table 2 Rancho Cordova Demographic and Vehicle Miles Traveled Projections

Forecast Factor	2019	2030	2045
Population	77,579	102,122	125,427
Employment	61,991	73,604	84,213
Annual VMT	919,218,798	1,071,357,646	1,307,495,381

Notes: VMT = vehicle miles traveled.

Source: SACOG Growth Forecast for the 2020 MTP/SCS; Fehr & Peers; adapted by Ascent Environmental in 2022.

Table 3 shows baseline emissions in 2019 and a BAU emissions forecast for 2030, and 2045.

Table 3 2019 Rancho Cordova Greenhouse Gas Emissions Inventory and BAU Forecast ($MTCO_2e$/year)

Sector	2019	2030	2045

On-Road Transportation	417,145	486,187	593,347
Nonresidential Building Energy	118,801	141,055	161,388
Residential Building Energy	95,575	125,811	154,521
Solid Waste	22,397	29,483	36,211
Off-Road Vehicles and Equipment	11,027	14,772	18,488
Water Supply	9,071	11,940	14,665
Wastewater Treatment	5,690	7,490	9,200
Total	679,706	816,738	987,820

Notes: Total may not sum exactly due to independent rounding. BAU = business-as-usual; $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year.

Source: Forecast prepared by Ascent Environmental in 2022.

Legislative-adjusted BAU emissions forecasts were prepared using the same demographic and VMT data that were used for the BAU forecasts, while accounting for regional, State, and federal legislative actions that would affect local emissions. These forecasts provide the City with a more robust understanding to assist with the prioritization of emissions reduction measures developed to meet the GHG targets. A summary of the legislative reductions applied is provided in Table 4.

Table 4 Legislative Reductions Summary

Source	Legislative Reduction	Description	Sectors Applied
Regional	2030 Zero Carbon Plan	Establishes a target for SMUD to supply 100 percent renewable electricity by 2030.	Residential and Nonresidential Building Energy, Water Supply
State	California's Building Energy Efficiency Standards (2019 Title 24, Part 6)	Requires all new buildings in California to comply with energy efficiency standards established by CEC. Accounts for the energy efficiency gains associated with lighting, heating, cooling, ventilation, and water heating improvements, as well as onsite solar photovoltaic requirements for low-rise residential.	Residential and Nonresidential Building Energy
State	Advanced Clean Car I Standards	Establishes GHG emission reduction standards for model years 2017 through 2025 that are more stringent than federal CAFE standards.	On-Road Transportation
State	Truck and Bus Regulation	Requires diesel trucks and buses that operate in California to be upgraded to reduce GHG emissions.	On-Road Transportation
Federal	Fuel Efficiency Standards for Medium- and Heavy-Duty Vehicles	Establishes fuel efficiency standards for medium- and heavy-duty engines and vehicles.	On-Road Transportation
Federal	EPA Off-Road Compression-Ignition Engine Standards	Establishes standards for phasing of EPA diesel engine tiers for off-road compression-ignition equipment.	Off-Road Vehicles and Equipment

Notes: CAFE = Corporate Average Fuel Economy; CEC = California Energy Commission; EPA = U.S. Environmental Protection Agency; GHG = greenhouse gas; SMUD = Sacramento Municipal Utility District

Source: Forecasts prepared by Ascent Environmental in 2022.

The city's legislative-adjusted BAU emissions would decrease by approximately 22 percent between 2019 and 2045, as shown below in Table 5 and Figure 2. Figure 2 also shows the emissions trend that would occur without

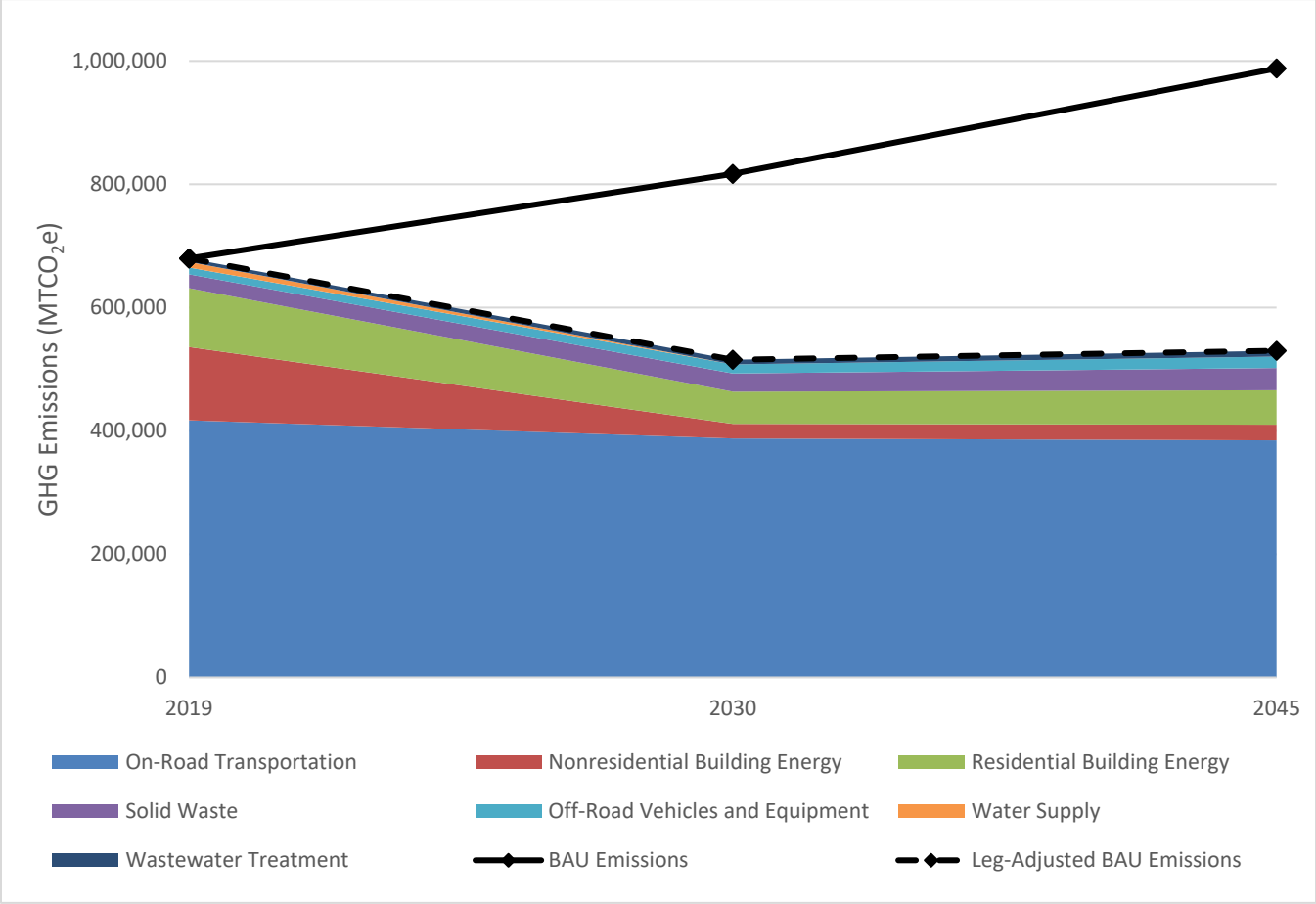
anticipated legislative reductions, accounting only for population, employment, and annual VMT increases. Without the legislative reductions (the BAU forecast), emissions would be 86 percent higher in 2045 compared to the legislative-adjusted BAU forecast. Emissions forecasts are detailed for each sector and discussed below beginning with Section 2.1.1.

Table 5 2019 Rancho Cordova Greenhouse Gas Emissions Inventory and Legislative-Adjusted BAU Forecasts ($MTCO_2e$/year)

Sector	2019	2030	2045
On-Road Transportation	417,145	387,784	384,651
Nonresidential Building Energy	118,801	23,605	25,335
Residential Building Energy	95,575	52,217	55,903
Solid Waste	22,397	29,483	36,211
Off-Road Vehicles and Equipment	11,027	14,772	18,488
Water Supply	9,071	0	0
Wastewater Treatment	5,690	7,490	9,200
Total	679,706	515,352	529,788

Notes: Total may not sum exactly due to independent rounding. BAU = business-as-usual; MTCO2e/year = metric tons of carbon dioxide equivalent per year.

Source: Forecasts prepared by Ascent Environmental in 2022.



Source: Ascent Environmental 2022

Figure 2 2019 Rancho Cordova Greenhouse Gas Emissions Inventory with BAU and Legislative-Adjusted BAU Forecasts

2.1.1 Building Energy

Emissions from future electricity, natural gas, and backup generator use for buildings were estimated by multiplying anticipated energy use with forecasted emissions factors. Future energy use was forecasted in three parts. First, energy use was scaled by population and employment growth factors detailed in Table 2. Second, electricity emissions factors were adjusted to reflect the Sacramento Metropolitan Utility District's (SMUD) 2030 Zero Carbon Plan of 100 percent of electricity from zero carbon sources by 2030. Electricity emissions factors are anticipated to decline based on current regulations, while natural gas and diesel emissions factors are anticipated to be constant. Third, energy intensity factors were adjusted to reflect increased stringency under California's Building Energy Efficiency Standards (California Code of Regulations Title 24 Part 6, hereafter referred to as "Title 24"). The 2019 Title 24 standards, which became effective in 2020, are expected to achieve decreases in electricity consumption in new construction. The assumptions for energy efficiency and future electricity emissions factors are described below. Table 6 summarizes the scaling factors and legislative reductions used to forecast building use by energy type.

Table 6 Building Energy Emissions Forecast Methods and Legislative Reductions by Source

Energy Type	Forecast Methods	
	Scale Factor	Applied Legislative Reductions
Electricity	Scaled by population growth for residential building energy; scaled by employment growth for nonresidential building energy.	Scheduled targets (i.e., 100 percent renewable by 2030) applied to SMUD's emissions factors. Accounts for Title 24 energy efficiency gains in new construction based on the best available data for average building energy efficiency.
Natural Gas		
Backup Generators	Scaled by employment growth for nonresidential building energy.	Accounts for Title 24 energy efficiency gains in new nonresidential construction.

Notes: SMUD = Sacramento Metropolitan Utility District.

Source: Forecasts prepared by Ascent Environmental in 2022.

RESIDENTIAL BUILDING ENERGY

Between 2019 and 2045, electricity and natural gas emissions from residential buildings would decrease by approximately 42 percent from 95,575 to 55,903 $MTCO_2e$ per year with legislative adjustments and overall population growth of 62 percent over the same time. While GHG emissions associated with residential electricity usage are anticipated to decline through 2045 and reflect SMUD's goal for zero carbon electricity by 2030, emissions from residential natural gas consumption are expected to rise gradually. This increase is due to population growth in the city and reflects adopted legislation. Table 7 shows the 2019 inventory and legislative-adjusted BAU forecasted emissions from the residential building energy sector by energy type for 2030 and 2045.

Table 7 2019 Residential Building Energy Greenhouse Gas Emissions Inventory and Legislative-Adjusted BAU Emissions Forecasts ($MTCO_2e$/year)

Energy Type	2019	2030	2045
Electricity	47,238	0	0
Natural Gas	48,336	52,217	55,903
Total	95,575	52,217	55,903

Notes: Totals may not sum exactly due to independent rounding. BAU = business-as-usual; $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year.

Source: Forecasts prepared by Ascent Environmental in 2022.

NONRESIDENTIAL BUILDING ENERGY

Between 2019 and 2045, electricity, natural gas, and back-up generator emissions from nonresidential buildings would decrease by 79 percent from 118,801 to 25,335 $MTCO_2e$ per year with legislative adjustments and overall employment growth of 36 percent over the same time. GHG emissions associated with nonresidential electricity usage are anticipated to decline through 2045 and reflect SMUD's carbon neutrality goals and emissions from nonresidential natural gas consumption and backup generators are expected to rise gradually. Table 8 shows the 2019 inventory and legislative-adjusted BAU forecasted emissions for the nonresidential building energy sector by energy type for 2030 and 2045.

Table 8 2019 Nonresidential Building Energy Greenhouse Gas Emissions Inventory and Legislative-Adjusted BAU Forecasts ($MTCO_2e$/year)

Energy Type	2019	2030	2045
Electricity	97,089	0	0
Natural Gas	20,769	22,580	24,235
Backup Generators	943	1,025	1,101
Total	118,801	23,605	25,335

Notes: Totals may not sum exactly due to independent rounding. BAU = business-as-usual; $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year.

Source: Forecasts prepared by Ascent Environmental in 2022.

Electricity Emissions Factors

Electricity emissions from the building sector are anticipated to decrease to zero by 2030 and beyond without additional City action, despite growth, due to State and regional measures already in place that affect the carbon intensity of grid electricity. SMUD's emissions factor for CO_2 in 2019 was provided by SMUD. Electricity emissions factors for methane (CH_4) and nitrous oxide (N_2O) were obtained from the U.S. Environmental Protection Agency's (EPA's) Emissions & Generation Resource Integrated Database (eGRID) 2018 Annual Output Emissions Rates (EPA 2020).

California utility providers, including SMUD, were scheduled to reach a 33 percent renewable electricity generation mix in 2020 and, pursuant to SB 100, are scheduled to achieve 60 percent renewable electricity by 2030 and 100 percent carbon-free electricity by 2045. However, SMUD's is scheduled to achieve 100 percent renewable by 2030 under the utility's carbon neutrality goal. SMUD's 2019 emissions factors is 232.1 grams of CO_2 per kilowatt hour (g CO_2/kWh). The carbon-free electricity requirement results in a 2030 and 2045 emissions factor of zero g CO_2/kWh. CH_4 and N_2O electricity emissions factors in future years are assumed to follow the same trends as the CO_2 emissions factors.

Natural Gas Emissions Factors

Natural gas emissions are based on emissions factors obtained from The Climate Registry's (TCR's) 2020 Default Emission Factors, which are estimated to be 5,306 pounds of carbon dioxide equivalent per therm (g CO_2e/therm) for stationary combustion in buildings. Emissions factors associated with natural gas combustion are not anticipated to change over time, as there are no legislative actions that would reduce the energy intensity of natural gas.

Diesel Emissions Factors

Emissions from diesel fuel used to power backup generators are based on emissions factors from TCR, which are estimated to be 10,210 grams of carbon dioxide equivalent per gallon (g CO_2e/gal). Emissions factors associated with diesel combustion are not anticipated to change over time, as there are no legislative actions that would reduce the energy intensity of diesel.

Energy Efficiency

Title 24 standards apply to both new construction and existing buildings. The 2019 Title 24 standards went into effect January 2020. The California Energy Commission (CEC) estimates that new residential buildings built to the 2019 standards are 53 percent more efficient than residential buildings built to the previous standards (CEC 2018). CEC estimates that new nonresidential buildings built to the 2019 standards are 30 percent more efficient than nonresidential buildings built to the previous standards (CEC 2018).

In addition to the current iteration of Title 24, previous versions of the standards have also achieved energy efficiencies for residential and nonresidential buildings. Energy efficiency savings have been quantified by CEC and the collective effect of Title 24 was accounted for in the forecasted emissions. Based on these data, the analysis assumes that all new residential construction occurring between 2020 and 2045 would be 75 percent more energy efficient than buildings constructed under previous Title 24 standards, and nonresidential construction would be 53 percent more energy efficient compared to buildings constructed under previous Title 24 standards. This includes the energy efficiencies gained through the 2008, 2013, 2016, and 2019 versions of Title 24. Additional efficiencies to be achieved in future code cycles are yet unknown and therefore not factored into the forecast.

2.1.2 Transportation

ON-ROAD TRANSPORTATION

Between 2019 and 2045, annual legislative-adjusted BAU GHG emissions from on-road vehicles would decrease by approximately 8 percent from 417,147 to 384,651 $MTCO_2e$ per year based on future vehicle emission factors modeled in the California Air Resources Board's (CARB's) Emission Factor (EMFAC) 2017 model, despite an increase in VMT of 42 percent. VMT projections were provided by Fehr & Peers based on origin-destination data from SACOG. With respect to the legislative adjustments included in this forecast, State and federal regulations incorporated in the on-road vehicle sector include the Advanced Clean Car I (ACC) Standards, and fuel efficiency standards for medium- and heavy-duty vehicles. These standards are included in EMFAC2021's emissions factor estimates and forecasts. It should be noted that the Low Carbon Fuel Standard was excluded in EMFAC2021 forecasts because the emissions benefits originate from upstream fuel production and do not directly reduce vehicle tailpipe emissions that affect the city's GHG emissions forecasts. Table 9 summarizes the scaling factor and legislative reductions used to forecast on-road transportation emissions.

Table 9 On-Road Transportation Forecast Methods and Legislative Reductions

Source	Forecast Methods	
	Scale Factor	Applied Legislative Reductions
On-Road Vehicles	Scaled by VMT estimates provided by Fehr & Peers.	EMFAC2021 forecasts vehicle fleet distributions by vehicle type and the emissions factors anticipated for each vehicle category based on both vehicle emissions testing and approved legislative reductions. EMFAC2021's forecasts incorporate the effects of the ACC I Standards, and fuel efficiency standards for medium- and heavy-duty vehicles, as well as truck and bus regulations.

Notes: ACC I = Advanced Clean Cars I; CAFE = Corporate Average Fuel Economy; EMFAC2021 = California Air Resources Board's EMisson FACtor 2021 model.

Source: Forecasts prepared by Ascent Environmental in 2022.

Table 10 shows the 2019 inventory and legislative-adjusted BAU forecasted emissions from on-road transportation for 2030 and 2045.

Table 10 2019 On-Road Transportation Greenhouse Gas Emissions Inventory and Legislative-Adjusted BAU Forecasts ($MTCO_2e$/year)

EMFAC Vehicle Category	EMFAC Vehicle Category Description	2019	2030	2045
LDA	Passenger Cars	148,453	132,269	142,439

LDT2	Light-Duty Trucks (GVWR <6000 lb)	78,535	73,483	80,220
MDV	Medium-Duty Trucks (GVWR 5751-8500 lb)	65,206	60,725	65,244
LDT1	Light-Duty Trucks (GVWR <6000 lb)	17,554	17,356	18,083
LHD1	Light-Heavy-Duty Trucks (GVWR 8501- 10000 lbs)	29,056	28,522	19,887
T7 Trucks	Heavy-Heavy Duty Trucks	38,318	36,057	31,532
T6 Trucks	Medium-Heavy Duty Trucks	23,818	23,123	14,868
LHD2	Light-Heavy-Duty Trucks (GVWR 10001- 14000 lb)	7,083	7,041	5,053
MCY	Motorcycles	891	987	1,161
MH	Motor Homes	1,826	2,033	2,440
UBUS	Urban Buses	1,597	1,384	7
OBUS	Other Buses	1,515	1,516	915
SBUS	School Buses	897	935	667
All Other Buses	All Other Buses	749	743	849
PTO	Power Take Off	1,138	1,051	658
Motor Coach	Motor Coach	511	561	630
Total	-	417,145	387,784	384,651

Notes: Totals may not sum exactly due to independent rounding. BAU = business-as-usual; $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year.

Source: Forecasts prepared by Ascent Environmental in 2022.

OFF-ROAD VEHICLES AND EQUIPMENT

Between 2019 and 2045, emissions associated with off-road vehicles and equipment used in the city would increase by 69 percent from 12,470 to 21,074 $MTCO_2e$ per year, with legislative adjustments applied and overall growth in various demographics. Emissions were obtained from CARB's OFFROAD2007 and OFFROAD2021 models. With respect to the legislative adjustments in the off-road vehicle sector, CARB's latest off-road emissions model, OFFROAD2021, was used, which incorporates regulatory actions such as reformulated fuels and more stringent emission standards. However, some off-road vehicle and equipment sources that are included in the OFFROAD2007 model are excluded from OFFROAD2021. For these sectors, emissions were obtained from OFFROAD2007. In addition, OFFROAD2021 provides CO_2 emissions but does not provide emissions from CH_4 and N_2O. Ratios of CH_4 and N_2O to CO_2 reported in OFFROAD2007 were calculated and applied to CO_2 data from OFFROAD2021 to calculate CH_4 and N_2O emissions, as recommended by CARB.

Sacramento County-level emissions from off-road vehicles and equipment were scaled using changes in city-specific demographic factors. Table 11 summarizes the scaling factors and legislative reductions used to forecast off-road vehicle and equipment emissions.

Table 11 Off-Road Vehicles and Equipment Forecast Methods and Legislative Reductions by Source

Source	Forecast Methods	
	Scale Factor	Applied Legislative Reductions
Construction and Mining Equipment	Service Population	OFFROAD2007 and OFFROAD2021 emission factor considerations include EPA off-road compression-ignition engine standards implementation schedule.
Entertainment Equipment	Employment	
Industrial Equipment	Employment	
Lawn and Garden Equipment	Population	
Light Commercial Equipment	Employment	
Portable Equipment	Employment	
Recreational Equipment	Population	
Transportation Refrigeration Units	Service Population	

Notes: EPA = U.S. Environmental Protection Agency; OFFROAD2007 = California Air Resources Board's OFFROAD2007 model; OFFROAD2021 = California Air Resources Board's OFFROAD2021 model.
Source: Forecasts prepared by Ascent Environmental in 2022.

Table 12 shows the 2019 inventory and legislative-adjusted BAU forecasted emissions from the off-road vehicles and equipment sector for 2030 and 2045.

Table 12 2019 Off-Road Vehicles and Equipment Greenhouse Gas Emissions Inventory and Legislative-Adjusted BAU Forecasts ($MTCO_2e$/year)

Source	2019	2030	2045
Construction and Mining Equipment	5,350	7,500	9,675
Entertainment Equipment	54	67	80
Industrial Equipment	1,426	1,787	2,129
Lawn and Garden Equipment	138	211	287
Light Commercial Equipment	839	1,052	1,253
Portable Equipment	2,478	3,105	3,699
Recreational Equipment	81	123	168
Transportation Refrigeration Units	661	927	1,196
Total	11,027	14,772	18,488

Notes: Totals may not sum exactly due to independent rounding. BAU = business-as-usual; $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year.
Source: Forecasts prepared by Ascent Environmental in 2022.

2.1.3 Solid Waste

Between 2019 and 2045, solid waste emissions generated from community activities in the city would increase by approximately 62 percent from 22,397 to 36,211 $MTCO_2e$, due to overall population growth of approximately 62 percent over the same period. Solid waste sector emissions include CH_4 emissions from the decay of waste generated annually, which were scaled by population growth within the city between 2019 and 2045. There are no applicable legislative reductions to apply to this sector and future disposal rates, so legislative-adjusted BAU emissions are equivalent to BAU emissions. Table 13 shows the 2019 inventory and legislative-adjusted BAU forecasted emissions from the solid waste sector for 2030 and 2045.

Table 13 2019 Solid Waste Greenhouse Gas Emissions Inventory and Legislative-Adjusted BAU Forecasts ($MTCO_2e$/year)

Source	2019	2030	2045
Community-Generated Solid Waste	22,397	29,483	36,211

Notes: Totals may not sum exactly due to independent rounding. BAU = business-as-usual; $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year.

Source: Forecasts prepared by Ascent Environmental in 2022.

2.1.4 Water Supply

Between 2019 and 2045, water supply emissions from community activities in the city would be reduced to zero by 2030 onward due to SMUD's 2030 Zero Carbon Plan. Table 14 summarizes the scaling factor and legislative reduction used to forecast water supply emissions.

Table 14 Water Supply Forecast Methods and Legislative Reductions by Source

Source	Forecast Methods	
	Scale Factor	Applied Legislative Reductions
Water Consumption	Population growth.	Assumes electricity use for extraction, conveyance, distribution, and treatment follow the 2030 goal of carbon-free electricity.

Source: Forecasts prepared by Ascent Environmental in 2022.

Table 15 shows the 2019 inventory and legislative-adjusted BAU forecasted emissions from the water supply sector for 2030 and 2045.

Table 15 2019 Water Supply Greenhouse Gas Emissions Inventory and Legislative-Adjusted BAU Forecasts ($MTCO_2e$/year)

Source	2019	2030	2045
Water Supply	9,070	0	0

Notes: BAU = business-as-usual; $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year.
Source: Forecasts prepared by Ascent Environmental in 2022.

2.1.5 Wastewater Treatment

Between 2019 and 2045, wastewater treatment emissions from the community would increase by 62 percent from 5,690 to 9,200 $MTCO_2e$ per year, accounting for overall population growth of 62 percent over the same time. Wastewater treatment-related emissions are generated from centralized wastewater treatment plants (WWTPs). Table 16 shows the 2019 inventory and legislative-adjusted BAU forecasted emissions from wastewater treatment sources for 2030 and 2045.

Table 16 2019 Wastewater Treatment Greenhouse Gas Emissions Inventory and Legislative-Adjusted BAU Forecasts ($MTCO_2e$/year)

Source	2019	2030	2045
Centralized WWTPs	5,690	7,490	9,200

Notes: BAU = business-as-usual; $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year.
Source: Forecasts prepared by Ascent Environmental in 2022.

2.1.6 Discussion

As discussed above, the community legislative-adjusted BAU emissions would decrease by 22 percent between 2019 and 2045. This is a result of reductions that would be achieved from several regional, State, and federal legislative actions including:

- 100 percent of electricity from zero carbon sources by 2030;
- improved building energy efficiency through compliance with Title 24 standards (75 percent energy reduction for residential, 53 percent for nonresidential); and
- reductions in on-road vehicle emissions factors forecasted in EMFAC2021 and off-road vehicle and equipment emissions factors forecasted in OFFROAD2021.

From 2030 to 2045, new legislative actions that would affect emissions are anticipated to be adopted by the State and federal government; however, because information regarding these regulatory changes is currently unavailable or not final, emissions reductions from future potential legislative actions are not quantified in this memorandum. Without future legislative actions and despite growth in the city, emissions would decline from 2019 through 2045. Additional reductions could occur in the future due to State and/or federal actions requiring improvements in vehicle and equipment fuel economy and increased share of electric vehicle and equipment options, which would be reflected in future updates to the EMFAC2021 and OFFROAD2021 models. Other previous legislative actions would also continue to apply in the future and ultimately outpace growth in population and employment. Where new State regulations or programs are imminent and reasonably foreseeable, they can be incorporated as complementary actions to locally based GHG reduction measures.

3 REDUCTION TARGETS

3.1 STATEWIDE GREENHOUSE GAS REDUCTION TARGETS AND GOALS

As directed in AB 32, SB 32, and AB 1279, the State aims to reduce annual GHG emissions to:

- 1990 levels by 2020;
- 40 percent below 1990 levels by 2030; and
- Net zero emissions with at least an 85 percent reduction from 1990 levels for anthropogenic sources

Signed on September 16, 2022, AB 1279, the California Climate Crisis Act, established a statewide goal to achieve net zero emissions as soon as possible, and no later than 2045, and achieve net negative emissions thereafter, and to ensure that by 2045, statewide anthropogenic greenhouse gas emissions are reduced to at least 85 percent below 1990 levels..

The City aims to reduce its fair-share of communitywide emissions in proportion to the State's targets and goals. Community emissions levels from 1990 are not available, which is the case for most local jurisdictions in California. Thus, community GHG reduction targets for the City's CAP were developed relative to the 2019 community emissions inventory, consistent with guidance provided by CARB. The methodology used to calculate the City's emissions reduction targets is described below.

3.2 COMMUNITY GREENHOUSE GAS EMISSIONS REDUCTION TARGETS

Based on a review of the 2017 Scoping Plan and the 2022 Scoping Plan and an understanding of activities occurring within the city, the City has direct or indirect jurisdiction over activities that generate emissions and contribute to reductions in four of the eight emissions sectors included in the 2017 Scoping Plan and the 2022 Scoping Plan: residential and commercial, electric power, recycling and waste, and transportation. The City has limited influence over high GWP gases, and industrial activities in the city are limited. Lastly, while facilities regulated under Cap-and-Trade do exist within city boundaries, the State is responsible for achieving emissions reductions from these sources, and the City has limited ability to influence Cap-and-Trade facilities' GHG emissions. Therefore, by excluding these sectors under this approach, community GHG reduction targets have been established in proportion with statewide reductions for all sectors relevant to City jurisdiction to the extent feasible using available data. This target setting approach is consistent with the California Supreme Court decision in *Center for Biological Diversity v. California Department of Fish and Wildlife and Newhall Land and Farming (2015) 62 Cal.4th 204*, which determined that the approach of assessing a project's consistency with statewide emissions reduction goals must include a "reasoned explanation based on substantial evidence" that links the project's emission to the statewide GHG reduction goals.

The City kicked off the project in 2021 after which the City prepared GHG emissions inventories and forecasts and set GHG reduction targets. CARB's 2017 Scoping Plan was the adopted statewide Plan at the time the targets were developed and hence was used for setting the City's 2030 target and developing emissions reduction strategies and measures that meet the 2030 target. The City's 2045 goal has been developed using the 2022 Scoping Plan (adopted in December 2022) in response to the statewide 2045 GHG reduction goal established in AB 1279. The following sections detail the methodology for setting the City's 2030 target and 2045 goal:

2030 Emissions Reduction Target

The first step in determining community targets is to compare the State's GHG inventories for 1990 and 2019 (i.e., the City's baseline inventory year) for the four relevant sectors. According to the inventories available from CARB using the 2017 Scoping Plan, statewide emissions from the relevant sectors were approximately 431 million $MTCO_2e$ ($MMTCO_2e$) in 1990 and 418 $MMTCO_2e$ in 2019 (CARB 2021) (note: sector-specific emissions totals and reductions reflect rounding). Thus, 2019 statewide emissions were approximately 13 $MMTCO_2e$ (3 percent) lower than the 1990 level and the State's 2020 GHG target (i.e., reduce emissions to 1990 levels by 2020).

According to the 2017 Scoping Plan, statewide emissions from sectors relevant to the City's inventory must be reduced to 311 $MMTCO_2e$ by 2020 for the State to achieve its 2020 target. CARB's statewide inventory reports 2019 emissions levels of 278 $MMTCO_2e$ for these sectors, which demonstrates the achievement of the 2020 target.

According to the 2017 Scoping Plan, statewide emissions from the sectors relevant to the City's inventory must be reduced to 179 $MMTCO_2e$ by 2030 for the State to achieve its 2030 target. This represents an emissions reduction of approximately 99 $MMTCO_2e$, or 36 percent, by 2030, relative to 2019 levels of 278 $MMTCO_2e$.

2045 Emissions Reduction Goal

The first step in determining community targets is to compare the State's GHG inventories for 1990 and 2019 (i.e., the City's baseline inventory year) for the four relevant sectors. According to the inventories available from CARB using the 2022 Scoping Plan, statewide emissions from the relevant sectors were approximately 438 million $MTCO_2e$ ($MMTCO_2e$) in 1990 and 418 $MMTCO_2e$ in 2019 (CARB 2021) (note: sector-specific emissions totals and reductions reflect rounding). Thus, 2019 statewide emissions were approximately 20 $MMTCO_2e$ (5 percent) lower than the 1990 level and the State's 2020 GHG target (i.e., reduce emissions to 1990 levels by 2020).

According to the 2022 Scoping Plan, statewide emissions from sectors relevant to the City's inventory must be reduced to 311 $MMTCO_2e$ by 2020 for the State to achieve its 2020 target. CARB's statewide inventory reports 2019 emissions levels of 278 $MMTCO_2e$ for these sectors, which demonstrates the achievement of the 2020 target.

According to the 2022 Scoping Plan, statewide emissions from the sectors relevant to the City's inventory must be reduced to 53 $MMTCO_2e$ by 2045 for the State to achieve its 2045 goal. This represents an emissions reduction of approximately 330 $MMTCO_2e$, or 81 percent, by 2030, relative to 2019 levels of 278 $MMTCO_2e$.

Consistent with State targets and goals and considering relevant emissions sectors, the City's community GHG reduction targets are as follows:

- 2030 target: 36 percent below 2019 levels (438,283 $MTCO_2e$); and
- 2045 target: 81 percent below 2019 levels (129,252 MTCO2e)

Table 17 shows how the City's targets were derived based on adjusted statewide GHG emissions data and projections and summarizes the City's legislative-adjusted BAU forecasts and targets for 2030 and 2045.

Table 17 Rancho Cordova GHG Emissions Reduction Targets and Legislative-Adjusted BAU Summary

Source	2019	2030	2045
2017 Scoping Plan Emissions Limit ($MMTCO_2e$)	NA	259	NA
Adjusted 2017 Scoping Plan Emissions Limit[1] ($MMTCO_2e$)	NA	179	NA
2022 Scoping Plan Emissions Limit ($MMTCO_2e$)	NA	NA	66
Adjusted 2022 Scoping Plan Emissions Limit[1] ($MMTCO_2e$)	NA	NA	53
Statewide Target Percent Reduction from 2019 Levels	NA	36%	85%
Baseline Emissions and Legislative-Adjusted BAU Forecast ($MTCO_2e$)	679,706	515,352	529,788
Target Percent Reduction Below Baseline (%)	NA	36%	81%
Target Annual Emissions ($MTCO_2e$)	NA	438,283	129,252
Reduction Needed to Meet Target ($MTCO_2e$)	NA	77,070	400,536

Notes: BAU = business-as-usual; GHG = greenhouse gases; $MTCO_2e$ = metric tons of carbon dioxide equivalent; $MMTCO_2e$ = million metric tons of carbon dioxide equivalent; NA = not available; 2017 Scoping Plan = California's 2017 Climate Change Scoping Plan.

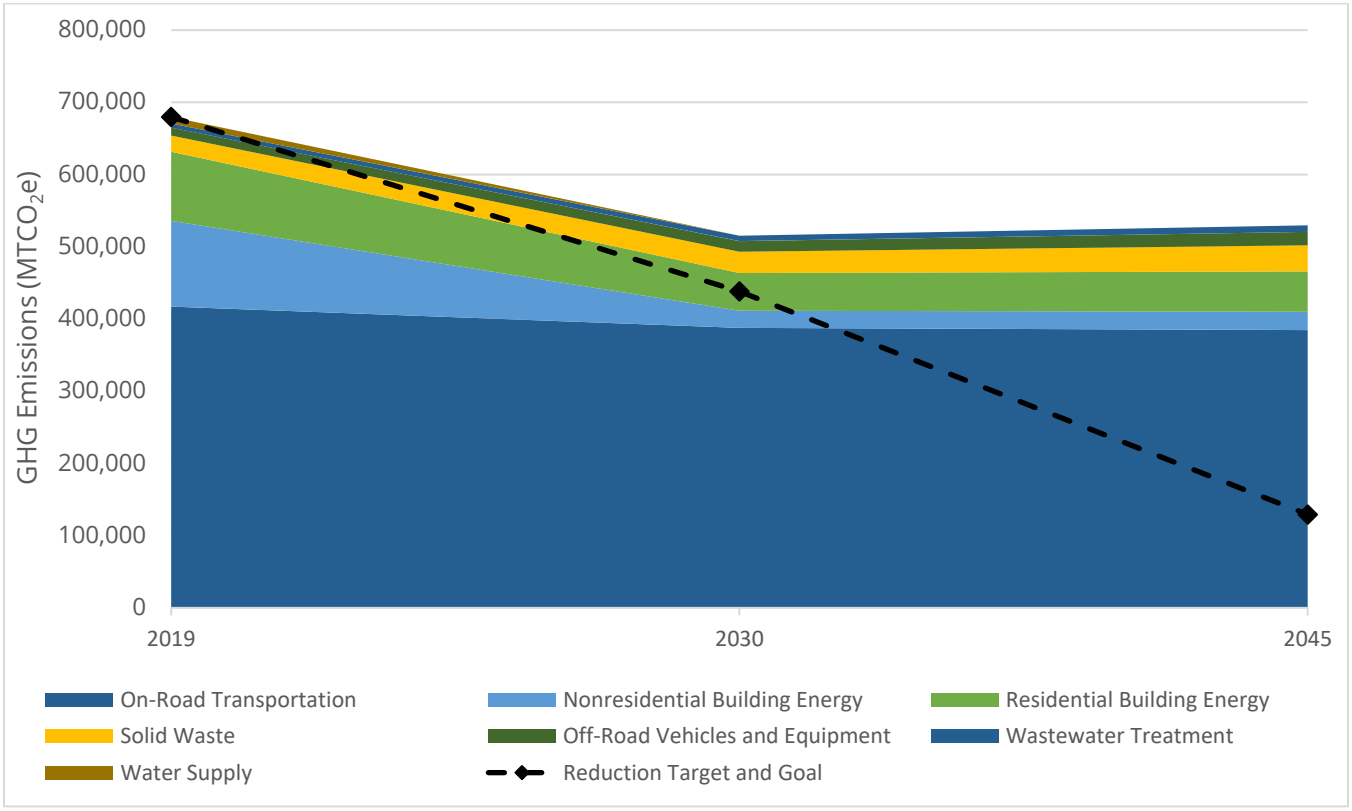
[1] Excludes agriculture, high GWP, industrial, and cap-and-trade sectors because they are not relevant to the City's inventory.

Source: CARB 2017; Ascent Environmental 2022.

Figure 3 below depicts the 2019 baseline and legislative-adjusted BAU GHG emissions forecasts by sector, as distinguished by the colored wedges. The sum of the wedges represents the anticipated annual GHG emissions each year. Each wedge shows how an emissions sector is expected to contribute to the community-wide GHG inventory over time. The black line indicates the City's GHG reduction target for 2030 and 2045 relative to the City's 2019 GHG inventory, consistent with guidance provided by CARB.

The City's 2030 GHG reduction target would be 36 percent below 2019 levels (438,283 $MTCO_2e$), and 81 percent below 2019 levels (129,252 MTCO2e) by 2045. The space between the trajectory of the black line and the top of the colored wedges represents the "gap" in emissions that will need to be addressed through local actions for the City to meet its future GHG reduction targets. These emissions reductions are in addition to anticipated reductions provided

by legislative actions at the State and federal levels. Supporting information and detailed calculation results are included in Attachment A.



Source: Ascent Environmental 2022

Figure 3 Rancho Cordova Legislative-Adjusted Business-as-Usual Forecast Emissions by Sector and 2030 Emission Reduction Target and 2045 Emission Reduction Goal

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Appendix D

Greenhouse Gas Reduction Target Worksheet

2045 Goal

California GHG Emissions Inventory (by scoping plan sector)

Included Emissio	*2019*
Agriculture	31.8
Commercial and	43.8
Electric Power	58.8
High GWP	20.6
Industrial	88.2
Recycling and	8.9
Transportation	166.1

Source: CARB 2021. California GHG Emissions for 2000 to 2019 (2021 Edition). https://www.arb.ca.gov/cc/inventory/data/data.htm

CARB Scoping Plan Emissions Targets by Sector

CARB GHG Inventory			2045 Target Ranges
Sectors	**1990**	**2019**	**2022 Scoping Plan Scenario**
Agriculture	26	32	14
Residential and Co	44	44	4
Electric Power	108	59	31
High GWP	3	21	9
Industrial	98	88	18
Recycling and Was	7	9	8
Transportation	152	166	10
Cap-and-Trade Program			0
CDR			-80
Natural and Workir	-7	26	-30
Total	**431**	**444**	**-15**

Source: California PATHWAYS Model Outputs, Energy & Environmental Economics, May 02, 2022
Natural and Working Lands data for the California Air Resources Board's 2022 Scoping Plan Update, CARB, May 10th, 2022

Applicable Emission Sectors

Emission Sectors	Applicable to Rancho Cordova?
Agriculture	No
Residential and Co	Yes
Electric Power	Yes
High GWP	No
Industrial	No
Recycling and Was	Yes
Transportation	Yes
Cap and Trade	No

GHG Reduction Targets

	All Sectors		Selected Sectors	
Milestone Year	Statewide Existing and Target Emissions (MMTCO2e)	Target Percent Reduction from 2019	Statewide Existing and Target Emissions (MMTCO2e)	Target Percent Reduction from 2019
1990	438	NA		
2019	418	NA	278	
2020	438	-5%	311	-12%
2045	66	85%	53	81%

Notes: CARB statewide inventory current through 2019. 2040 target interpolated between 2030 target and 2045 goal under AB32, SB32, and EO B-55-18.

Source: CARB 2021. California GHG Emissions for 2000 to 2019 (2021 Edition). https://www.arb.ca.gov/cc/inventory/data/data.htm

Rancho Cordova Target Emissions and Target Percent Reduction from 2019 Emissions Levels		
	Target Emissions	Target Percent Reduction from 2019
2019	679,706	--
2045	129,252	81%

2030 Target

California GHG Emissions Inventory (by scoping plan sector)

Included Emis	*2019*
Agriculture	31.8
Commercial	43.8
Electric Power	58.8
High GWP	20.6
Industrial	88.2
Recycling and	8.9
Transportation	166.1

Source: CARB 2021. California GHG Emissions for 2000 to 2019 (2021 Edition). https://www.arb.ca.gov/cc/inventor

CARB Scoping Plan Emissions Targets by Sector

CARB GHG Inventory			2030 Scoping Plan Range
Sectors	**1990**	**2019**	
Agriculture	26	32	24
Residential and	44	44	38
Electric Power	108	59	30
High GWP	3	21	8
Industrial	98	88	83
Recycling and \	7	9	8
Transportation	152	166	103
Cap-and-Trade	n/a	n/a	-34
Natural and W	-7		
Total	**431**	**418**	**260**

Source: 2017 Climate Change Scoping Plan. Table 3.
https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf
Note: the Scoping Plan-reported emissions by sector reflect rounding.

Applicable Emission Sectors

Emission Secto	Applicable to Rancho Cordova?
Agriculture	No
Residential and	Yes
Electric Power	Yes
High GWP	No
Industrial	No
Recycling and \	Yes
Transportation	Yes
Cap and Trade	No

GHG Reduction Targets

	All Sectors		Selected Sectors	
Milestone Yea	Statewide Existing and Target Emissions (MMTCO2e)	Target Percent Reduction from 2019	Statewide Existing and Target Emissions (MMTCO2e)	Target Percent Reduction from 2019
1990	431	NA		
2019	418	NA	278	
2020	431	-3%	311	-12%
2030	259	38%	179	36%

Notes: CARB statewide inventory current through 2019. 2040 target interpolated between 2030 target and 2045 goal under AB32, SB32, and EO B-55-18.

Source: CARB 2021. California GHG Emissions for 2000 to 2019 (2021 Edition). https://www.arb.ca.gov/cc/inventor

Rancho Cordova Target Emissions and Target Percent Reduction from 2019 Emissions Levels		
	Target Emissions	Target Percent Reduction from 2019
2019	679,706	--
2030	438,283	36%

Appendix E

Greenhouse Gas Reduction Strategies and Measures Worksheet

Table of Contents

City of Rancho Cordova

Communitywide Greenhouse Gas Emissions Reduction Measures Quantification Sheet

Summary Sheet

Strategy Code and Title	Measure Code	Measure Title	GHG Reduction Potential in 2030 (MTCO2e)	GHG Reduction Potential in 2045 (MTCO2e)	Percent of Total Reductions in 2030	Percent of Total Reductions in 2045
Getting To, From, and Around the City (On-road Transportation Sector)						
Strategy Transportation-1. Support development of walkable, interconnected neighborhoods, villages, and districts	Transportation-1.1	Enforce the City's **Transportation Impact Guidelines**, which require developers to include features in their projects that decrease the amount of driving alone and **encourage** people to make trips by **walking, biking**, or using public transit	6,669	17,134	8%	6%
	Transportation-1.2	Reduce or **eliminate** requirements to provide a **minimum number of off-street parking** spaces in new development projects	NA	NA	NA	NA
	Transportation-1.3	**Improve street connectivity**, for example by providing walkways at the ends of existing cul-de-sacs, or requiring walkable street systems in new developments	NA	NA	NA	NA
	Transportation-1.4	**Limit** the number of **drive-through** businesses	NA	NA	NA	NA
Strategy Transportation-2. Make walking and biking safe and attractive for people of all ages and abilities	Transportation-2.1	**Update Bike and Pedestrian Master Plans** to increase the number of low-stress bikeways and walkways that connect homes to destinations	11,536	12,755	14%	4%
	Transportation-2.2	Install **roundabouts** to control traffic at intersections, instead of stop signs or traffic signals	NA	NA	NA	NA
	Transportation-2.3	Provide temporary or permanent **car-free zones or "slow streets"** in specified areas, for example, individual blocks or residential streets	NA	NA	NA	NA
	Transportation-2.4	Install measures to reduce vehicle speeds and **calm traffic** on city streets	NA	NA	NA	NA
Strategy Transportation-3. Provide transit options that are accessible, reliable, and convenient	Transportation-3.1	**Increase the frequency** of SacRT bus, CordoVan service, and/or light rail service, or **extend service** to cover new areas or times of day	5,768	10,204	7%	3%
	Transportation-3.2	Implement **Transit-Supportive Roadway Treatments** (for example, transit signal priority, bus-only signal phases, queue jumps, curb extensions to speed passenger loading, and dedicated bus lanes)				
	Transportation-3.3	Provide **discounted or fare-free transit** service (could be universal or targeted to specific areas and/or populations, for example, youth under 18)				
	Transportation-3.4	Expand the SmaRT Ride area and **convert the shuttles to electric shuttles**				
Strategy Transportation-4. Reduce drive alone vehicle trips	Transportation-4.1	Implement a Commuter **Trip Reduction Program (**CTR) in which **companies** provide employees with services, infrastructure, and incentives for not driving alone to work and instead ridesharing, taking transit, biking, walking, or teleworking	3,845	6,803	5%	2%
	Transportation-4.2	Implement an **Electric Vehicle Carshare Program** in which vehicles are available for users **on-deman**d for short-term rentals	NA	NA	NA	NA
	Transportation-4.3	Implement a **bikeshare/scooter share** program in which conventional or electric powered bikes or scooters are available to users on-demand for short-term rentals	NA	NA	NA	NA
	Transportation-4.4	Provide Community-Based Travel Planning (CBTP) to households in the city in which trained travel advisors visit households to provide them with customized **information**, **incentives**, and support to encourage use of transportation options other than driving alone	NA	NA	NA	NA
Strategy Transportation-5. Transition to electric and zero emission vehicles	Transportation-5.1	**Install EV charger**s in new residential, commercial, and industrial projects	26,997	171,334	34%	56%
	Transportation-5.2	Install p**ublicly accessible EV chargers** on existing private property				
	Transportation-5.3	Install **EV chargers on public property**				
	Transportation-5.4	**Electrify loading docks** and/or require idling-reduction systems	NA	NA	NA	NA
	Transportation-5.5	**Limit new gasoline/**diesel fueling **stations**	NA	NA	NA	NA
Using Energy in Homes and Businesses (Building Energy Sector)						
Strategy Energy-1a. Increase energy efficiency and electrification in existing residential buildings	Energy-1.1	Retrofit existing residential buildings to improve energy efficiency and reduce natural gas consumption for end uses like space and water heating, clothes drying, cooking	9,667	29,002	12%	9%
Strategy Energy-1b. Increase energy efficiency and electrification in existing nonresidential buildings	Energy-1.2	Retrofit existing nonresidential buildings to improve energy efficiency and reduce natural gas consumption for end uses like space and water heating, clothes drying, cooking.	2,077	9,969	3%	3%
Strategy Energy-2a. Increase energy efficiency and electrification in new residential buildings	Energy-2.1	Require new residential development to be all-electric, zero net energy (ZNE) buildings (where the amount of energy used in a year equals the amount of energy generated on the site)	1,411	5,097	2%	2%
Energy-2b Increase energy efficiency and electrification in new nonresidential buildings	Energy-2.2	Require new nonresidential development to achieve energy efficiency above minimum State building code requirements (CAL Green Tier 2)	428	1,545	0%	1%
Using Equipment for Landscaping and Construction (Off-Road Vehicle and Equipment Sector)						
Strategy Offroad-1. Transition to electric and zero emissions technologies for landscaping equipment	Offroad-1.1	Replace existing gasoline and diesel-powered landscaping equipment with electric or zero emission alternatives	83	138	0%	0%
	Offroad-1.2	Convert new landscaping equipment to electric or zero-emission alternatives	46	123	0%	0%
Strategy Offroad-2. Transition to electric and zero emissions technologies for construction equipment	Offroad-2.1	Increase electrification and use of alternative fuels in construction projects	1,681	9,248	2%	3%
	Offroad-2.2	Reduce construction vehicle idling	NA	NA	NA	NA
Using Water and Disposing of Waste at Homes and Businesses (Water and Solid Waste Sectors)						
Strategy Water-1. Conserve water	Water-1.1	Reduce indoor water use in existing and new buildings	0	0	NA	NA
	Water-1.2	Reduce outdoor water use for landscaping and irrigation in existing and new developments	0	0	NA	NA
Strategy Solid Waste-1. Avoid disposal of organic waste in landfills	Solid Waste-1.1	Increase recovery of edible food waste	8,845	32,590	11%	11%
	Solid Waste-1.2	Eliminate disposal of organic waste in landfills (food waste, yard waste)				
Planting and Managing Trees (Carbon Sequestration Sector)						
Strategy Carbon Sequestration-1. Remove emissions from the atmosphere	Carbon Storage-1.1	Increase the number of trees in the city, through new plantings and management of existing trees	441	1,042	1%	0%
		Total Reductions from City Measures	**79,628**	**307,625**		
		Legislative-Adjusted BAU Forecast Emissions (without CAP measures)	515,352	529,788		
		Target Percent Reduction below 2019 Levels	36%	81%		
		Target Annual Emissions	438,283	129,252		
		Reductions Needed to Achieve Target	**77,070**	**400,536**		
		Legislative-Adjusted BAU Forecast Emissions with CAP Measures	435,724	222,163		
		Gap Needed to Achieve Target*	**-2559**	**92,911**		
		Percent of Target Achieved	103%	77%		

Notes: NA = not applicable (non-quantified measure; supportive of quantified measures).

* Negative numbers indicate target has been achieved with a surplus of emissions reductions; positive values indicate an emissions reduction gap still exists.

Strategy Code and Title	Measure Code	Measure Title	GHG Reduction Potential in 2030 (MTCO2e)	GHG Reduction Potential in 2045 (MTCO2e)	Percent of Total Reductions in 2030	Percent of Total Reductions in 2045	Quantification Approach
Getting To, From, and Around the City (On-road Transportation Sector)							
Strategy Transportation-1. Support development of walkable, interconnected neighborhoods, villages, and districts	Transportation-1.1	Enforce the City's **Transportation Impact Guidelines**, which require developers to include features in their projects that decrease the amount of driving alone and **encourage** people to make trips by **walking, biking**, or using public transit	6,669	17,134	8%	6%	Assumes a 10% reduction in new passenger VMT and 15% reduction in commercial VMT by 2030, and a 15% reduction in both passenger and commercial VMT by 2045. All reductions from new VMT that would be achieved from other measures are assumed to be captured under this measure. "New VMT" refers to forecasted VMT growth between 2019 and the target years.
	Transportation-1.2	Reduce or **eliminate** requirements to provide a **minimum number of off-street parking** spaces in new development projects	NA	NA	NA	NA	Non-quantified measure.
	Transportation-1.3	**Improve street connectivity**, for example by providing walkways at the ends of existing cul-de-sacs, or requiring walkable street systems in new developments	NA	NA	NA	NA	Non-quantified measure.
	Transportation-1.4	**Limit** the number of **drive-through** businesses	NA	NA	NA	NA	Non-quantified measure.
Strategy Transportation-2. Make walking and biking safe and attractive for people of all ages and abilities	Transportation-2.1	**Update Bike and Pedestrian Master Plans** to increase the number of low-stress bikeways and walkways that connect homes to destinations	11,536	12,755	14%	4%	Assumes a 6% reduction in existing (2019) passenger VMT by 2030 and 7.5% by 2045.
	Transportation-2.2	Install **roundabouts** to control traffic at intersections, instead of stop signs or traffic signals	NA	NA	NA	NA	Non-quantified measure.
	Transportation-2.3	Provide temporary or permanent **car-free zones or "slow streets"** in specified areas, for example, individual blocks or residential streets	NA	NA	NA	NA	Non-quantified measure.
	Transportation-2.4	Install measures to reduce vehicle speeds and **calm traffic** on city streets	NA	NA	NA	NA	Non-quantified measure.
Strategy Transportation-3. Provide transit options that are accessible, reliable, and convenient	Transportation-3.1	**Increase the frequency** of SacRT bus, CordoVan service, and/or light rail service, or **extend service** to cover new areas or times of day	5,768	10,204	7%	3%	Assumes a 3% reduction in existing (2019) passenger VMT by 2030 and 6% by 2045. Grouped all measures together based on CAPCOA transit-related measures (maximum transit-related emissions reductions from increased frequency, expanded coverage, reduced fare, rapid transit -- 15% reduction).
	Transportation-3.2	Implement **Transit-Supportive Roadway Treatments** (for example, transit signal priority, bus-only signal phases, queue jumps, curb extensions to speed passenger loading, and dedicated bus lanes)					
	Transportation-3.3	Provide **discounted or fare-free transit** service (could be universal or targeted to specific areas and/or populations, for example, youth under 18)					
	Transportation-3.4	Expand the SmaRT Ride area and convert the shuttles to electric shuttles					
Strategy Transportation-4. Reduce drive alone vehicle trips	Transportation-4.1	Implement a Commuter **Trip Reduction Program (**CTR) in which **companies** provide employees with services, infrastructure, and incentives for not driving alone to work and instead ridesharing, taking transit, biking, walking, or teleworking	3,845	6,803	5%	2%	Assumes a 2% reduction in existing (2019) passenger VMT by 2030 and 4% by 2045.
	Transportation-4.2	Implement an **Electric Vehicle Carshare Program** in which vehicles are available for users **on-deman**d for short-term rentals	NA	NA	NA	NA	Reductions captured in EV measures (Transportation-5.1 - 5.3).
	Transportation-4.3	Implement a **bikeshare/scooter share** program in which conventional or electric powered bikes or scooters are available to users on-demand for short-term rentals	NA	NA	NA	NA	Non-quantified measure (negligible reductions).
	Transportation-4.4	Provide Community-Based Travel Planning (CBTP) to households in the city in which trained travel advisors visit households to provide them with customized **information**, **incentives**, and support to encourage use of transportation options other than driving alone	NA	NA	NA	NA	Reductions from this measure are reflected in Transportation-4.1
Strategy Transportation-5. Transition to electric and zero emission vehicles	Transportation-5.1	**Install EV charger**s in new residential, commercial, and industrial projects	26,997	171,334	34%	56%	Quantified using EMFAC projections and statewide EV targets under the 2020 Mobile Source Strategy and AB 2172.
	Transportation-5.2	Install p**ublicly accessible EV chargers** on existing private property					
	Transportation-5.3	Install **EV chargers on public property**					
	Transportation-5.4	**Electrify loading docks** and/or require idling-reduction systems	NA	NA	NA	NA	Non-quantified measure.
	Transportation-5.5	**Limit new gasoline/**diesel fueling **stations**	NA	NA	NA	NA	Non-quantified measure.

Transportation-1.1			
Enforce the City's Transportation Impact Guidelines, which require developers to include features in their projects that decrease the amount of driving alone and encourage people to make trips by walking, biking, or using public transit	**2019**	**2030**	**2045**
10% reduction in new project-generated VMT from implementation of the City's VMT Thresholds of Significance for Development Projects			
Annual passenger vehicle miles traveled (VMT)	705,862,131	822,688,562	1,004,017,191
New passenger VMT		116,826,431	298,155,061
Percent VMT reduction from SB 743		10%	15%
Reduced passenger VMT from SB 743		11,682,643	44,723,259
Passenger vehicle emissions factor (MTCO2e/mile)		0.000272	0.000241
GHG reductions from new passenger vehicles (MTCO2e)		3,182	10,775
Annual commercial vehicle miles traveled (VMT)	213,356,667	248,669,088	303,478,188
New commercial VMT		35,312,421	90,121,520
Percent VMT reduction from SB 743		15%	15%
Reduced commercial VMT from SB 743		5,296,863	13,518,228
Commercial vehicle emissions factor (MTCO2e/mile)		0.000658	0.000470
GHG reductions from new commercial vehicles (MTCO2e)		3,487	6,359
GHG Reductions from Transportation-1.1 (MTCO2e)		**6,669**	**17,134**

Sources:

City of Rancho Cordova Transportation Impact Guidelines

Transportation-2.1

Update Bike and Pedestrian Master Plans to increase the number of low-stress bikeways and walkways that connect homes to destinations	2019	2030	2045
Increased active transportation			
Annual existing passenger vehicle miles traveled (VMT)	705,862,131	705,862,131	705,862,131
Percent reduction in existing citywide passenger VMT from comprehensive active transportation improvements [1]		6.0%	7.5%
Passenger VMT reduction		42,351,728	52,939,660
Passenger vehicle emissions factor (MTCO2e/mile)		0.000272	0.000241
GHG reductions from existing passenger vehicles (MTCO2e)		11,536	12,755

Sources:

[1] CAPCOA. 2021. GHG Handbook. Available: https://www.airquality.org/ClimateChange/Documents/Final%20Handbook_AB434.pdf.
T-18 Pedestrian Network Improvement, T-19 Bike Facility/Boulevard, and T-20 Expand Bikeway Network (maximum neighborhood design-related emissions reduction = 7.5% reduction)

Bicycle Master Plan (2016)

Develop continuous, convenient, and family friendly bikeway network.
Ensure new development extends the bicle network to all neighborhoods and attractors.
Ensure adequeate support facilities throughout Rancho Cordova's bicycle network.
Increase awareness of bicyclist safety and responsibility through education and enforcement of bicyclists and drivers.
Eliminate all traffic fatalities and reduce the number of bicycle related injuries by 50 percent by 2027.
Pursue innovative funding sources and partnership opportunities to enhance bicycle facilities, and provide education and encouragement opportunities.
Increase the percentage of all trips made by bicyclists from 1.1 percent to 2.2 percent in Rancho Cordova by 2021.

Establish Rancho Cordova as a destination for recreational bicycling through creation of a signature trail network and encouragement of bicycling and bicycling events.

Table 4-1: Proposed Bikeway Network Mileage by Class

Path Type	Existing	Proposed	Total
Class I Paths	13.9	77	90.9
Class II Bike Lanes	14.7	12.5	27.2
Class III Bike Routes	2.4	3.2	5.6
Class III Bike Boulevards	0	14.5	14.5
Class IV Protected Bikeways	0	3.6	3.6
Total	31	110.8	141.8

https://www.cityofranchocordova.org/home/showpublisheddocument/11416/635996042085130000

Transportation-3.1, Transportation-3.2, Transportation-3.3, Transportation-3.4			
Increase the frequency of SacRT bus, CordoVan service, and/or light rail service, or extend service to cover new areas or times of day. Implement Transit-Supportive Roadway Treatments (e.g., transit signal priority, bus-only signal phases, queue jumps, curb extensions to speed passenger loading, and dedicated bus lane). Provide discounted or fare-free bus service (could be citywide or targeted to specific areas and/or populations, e.g., youth under 18). Expand the SmaRT Ride area and convert the shuttles to electric shuttles	**2019**	**2030**	**2045**
Comprehensive transit system improvements			
Annual existing passenger vehicle miles traveled (VMT)	705,862,131	705,862,131	705,862,131
Percent reduction in existing citywide passenger VMT from comprehensive transit improvements [1] [2] [3]		3.0%	6.0%
Passenger VMT reduction		21,175,864	42,351,728
Passenger vehicle emissions factor (MTCO2e/mile)		0.000272	0.000241
GHG reductions from existing passenger vehicles (MTCO2e)		5,768	10,204

Sources:

[1] Mozingo. 2021. Zero-Carbon Buildings in California: A Feasibility Study. The Center for Resource Efficient Communities and the Center for the Built Environment, UC Berkeley. (5.8% to 14.8% reduction)

[2] CAPCOA. 2021. GHG Handbook. Available: https://www.airquality.org/ClimateChange/Documents/Final%20Handbook_AB434.pdf.
T-25 Extend Coverage/Hours, T-26 Increase Frequency, T-27 Roadway Treatments, T-28 Rapid Transit, and T-29: Reduce Transit Fares (maximum transit-related emissions reduction = 15% reduction)

[3] Handy, S. et al. (2013). Impacts of Transit Service Strategies on Passenger Vehicle Use and Greenhouse Gas Emissions - Policy Brief and Technical Background Document. California Air Resources Board. Retrieved from: https://arb.ca.gov/cc/sb375/policies/policies.htm. (0.5% to 10.5% reduction)

Transportation-4.1			
Implement a Commuter Trip Reduction Program (CTR) in which companies provide employees with services, infrastructure, and incentives for not driving alone to work and instead ridesharing, taking transit, biking, walking, or teleworking	**2019**	**2030**	**2045**
Passenger VMT reductions from CTR Program			
Annual existing passenger vehicle miles traveled (VMT)	705,862,131	705,862,131	705,862,131
Percent reduction in existing citywide passenger VMT from CTR Program (voluntary and mandatory programs estimated 4% and 26%) [1]		2.0%	4.0%
Passenger VMT reduction		14,117,243	28,234,485
Passenger vehicle emissions factor (MTCO2e/mile)		0.000272	0.000241
GHG reductions from existing passenger vehicles (MTCO2e)		3,845	6,803

Sources:

[1] CAPCOA. 2021. GHG Handbook. Available: https://www.airquality.org/ClimateChange/Documents/Final%20Handbook_AB434.pdf.
TR-5 Implement Voluntary CTR Program and TR-6 Implement Mandatory CTR Program. (Note: Scale of Application for these measure is Project/Site, with a reduction of 4-26%. Maximum reduction for Plan/Community is 2.3%.)

Transportation-5.1, Transportation-5.2, Transportation-5.3			
Install EV chargers in new residential, commercial, and industrial projects; Install publicly accessible EV chargers on existing private property; Install EV chargers on public property	**2019**	**2030**	**2045**
Statewide Light-Duty EV Forecasts and Targets			
Statewide Light Duty Population [1]	26,905,738	27,823,204	30,102,489
Statewide Light Duty EV population [1]	301,382	1,413,449	2,333,152
Statewide Light Duty EV Population Target under EO N-79-20 (5 million baseline scenario, 8 million high scenario) [2]		5,000,000	25,587,116
Target Percent EVs in Passenger Vehicles Statewide		**18%**	**85%**
Target Percent EVs in Passenger Vehicles for Rancho Cordova		**18%**	**85%**
EMFAC2021 Forecasts			
Light Duty eVMT in Sacramento County [1]		757,645,077	1,174,264,221
Light Duty VMT in Sacramento County [1]		13,097,501,302	14,315,240,607
Percent eVMT in Sacramento County		**5.8%**	**8.2%**
Forecasted eVMT in Rancho Cordova			
Rancho Cordova Passenger VMT after reduction from other measures		733,361,084	835,768,059
Forecasted eVMT in Rancho Cordova		42,422,398	68,557,180
Target eVMT in Rancho Cordova		131,789,474	710,402,850
Additional eVMT needed to meet State Targets		**89,367,076**	**641,845,670**
Additional GHG emissions from EV charger use			
Additional eVMT needed to meet State Targets		89,367,076	641,845,670
Average Efficiency of EV LDV (kWh/100-mi) [3]		34	34
Charged amount (kWh)		3,005,236,404	21,583,988,989
Electricity emissions factor (MTCO2e/MWh)		0	0
Additional GHG emissions from EVs (MTCO2e)		-	-
Emissions from Equivalent Gasoline/Diesel Vehicles			
Additional eVMT needed to meet State Targets		89,367,076	641,845,670
Avg emissions factor for non-electric light-duty vehicles (MTCO2e/mi)		0.000302089	0.000266939
Equivalent GHG emissions avoided from increased EV chargers (MTCO2e)		26,997	171,334

Sources:

[1] EMFAC 2021. (Note: EMFAC 2021 does not account for statewide EV targets under EO N-79-20.)

[2] Assembly Bill 2127 Electric Vehicle Charging InfrastructureAssessment (Staff Report). January 2021.

[3] https://www.driveclean.ca.gov/pev/Charging.php

Notes

16 public charging stations (https://chargehub.com/en/countries/united-states/california/rancho-cordova.html)

70 total stations (https://www.plugshare.com/directory/us/california/rancho-cordova)

	2019	**2030**	**2045**
Rancho Cordova Passenger VMT	705,862,131	822,688,562	1,004,017,191
Sac County Passenger VMT (EMFAC)	11,549,499,458	13,097,501,302	14,315,240,607
Percent Rancho Cordova	6.11%	6.28%	7.01%
Sac County Increase in EV Population Needed		202,817	1,073,091
Rancho Cordova EV Population Needed		12,739	75,263
Rancho Cordova Existing EVs		500	500
Statewide Chargers Needed to Support 5mil ZEV by 2030		755,157	
Statewide Chargers Needed to Support 8mil ZEV by 2030		1,228,880	
Percent Difference		163%	
Sacramento County Chargers Needed to Support 8mil ZEV by 2030		39,633	
Sacramento County Chargers Needed to Support 5mil ZEV by 2030		24,355	
Rancho Cordova Chargers Needed to Support 5mil ZEV by 2030		1,530	

Strategy Code and Title	Measure Code	Measure Title	GHG Reduction Potential in 2030 (MTCO2e)	GHG Reduction Potential in 2045 (MTCO2e)	Percent of Total Reductions in 2030	Percent of Total Reductions in 2045	Quantification Approach
Using Energy in Homes and Businesses (Building Energy Sector)							
Strategy Energy-1a. Increase energy efficiency and electrification in existing residential buildings	Energy-1.1	Retrofit existing residential buildings to improve energy efficiency and reduce natural gas consumption for end uses like space and water heating, clothes drying, cooking	9,667	29,002	12%	9%	Assumes a 20% reduction in existing residential natural gas by 2030 and 60% reduction by 2045.
Strategy Energy-1b. Increase energy efficiency and electrification in existing nonresidential buildings	Energy-1.2	Retrofit existing nonresidential buildings to improve energy efficiency and reduce natural gas consumption for end uses like space and water heating, clothes drying, cooking.	2,077	9,969	3%	3%	Assumes a 13% reduction in existing nonresidential natural gas by 2030 amd 48% reduction by 2045.
Strategy Energy-2a. Increase energy efficiency and electrification in new residential buildings	Energy-2.1	Require new residential development to be all-electric, zero net energy (ZNE) buildings (where the amount of energy used in a year equals the amount of energy generated on the site)	1,411	5,097	2%	2%	Assumes a 100% reduction in new residential natural gas starting in 2026.
Energy-2b Increase energy efficiency and electrification in new nonresidential buildings	Energy-2.2	Require new nonresidential development to achieve energy efficiency above minimum State building code requirements (CAL Green Tier 2)	428	1,545	0%	1%	CAL Green Tier 2: 30% reduction in new nonresidential energy use starting in 2026.

Energy-1.1			
Retrofit existing residential buildings to improve energy efficiency and reduce natural gas consumption for end uses like space and water heating, clothes drying, cooking	**2019**	**2030**	**2045**
Electrification in existing residential buildings			
Existing residential buildings natural gas usage (therms)	9,082,624	9,082,624	9,082,624
Target electrification rate for existing residential buildings (natural gas) [1]		20%	60%
Reduced natural gas usage (therms)		1,816,525	5,449,574
Natural gas emissions factor (MTCO2e/therm)		0.005322	0.005322
GHG reductions from existing residential buildings natural gas savings (MTCO2e)		9,667	29,002
Additional electricity use and emissions			
Assumed average efficiency of natural gas heating [2] [3]		78%	78%
Assumed average efficiency of electric heating [4]		100%	100%
kWh per therm conversion		29.3	29.3
Total therms offset from natural gas heating use (therms)		1,816,525	9,082,624
Total electricity needed to offset natural gas heating (MWh)		41,515	207,574
Electricity emissions factor (MTCO2e/MWh)		0	0
Additional GHG emissions from electricity use (MTCO2e)		0	0
GHG Reductions from Energy-1.1 (MTCO2e)		**9,667**	**29,002**

Sources:

[1] Mozingo. 2021. Zero-Carbon Buildings in California: A Feasibility Study. Available: https://crec.berkeley.edu/uploads/16RD004_CREC_ZCB_Final_Report_w__Appendices_(1).pdf

[2] https://www.energy.gov/sites/prod/files/2014/05/f15/fupwg_may2014_new_gas_technologies.pdf

[3] https://www.aceee.org/sites/default/files/publications/researchreports/a1602.pdf

[4] U.S. DOE. 2021. Electric Resistance Heating. Available: https://www.energy.gov/energysaver/home-heating-systems/electric-resistance-heating#:~:text=Electric%20resistance%20heating%20is%20100,the%20fuel's%20energy%20into%20electricity.

Total Housing Units	20,000
Percent retrofitted by 2030	4000
Percent retrofitted by 2045	12000

Energy-1.2			
Retrofit existing nonresidential buildings to improve energy efficiency and reduce tural gas consumption for end uses like space and water heating, clothes drying, cooking.	**2019**	**2030**	**2045**
Electrification in existing nonresidential buildings			
Existing nonresidential buildings natural gas usage (therms)	3,902,601	3,902,601	3,902,601
Target electrification rate for existing nonresidential buildings (natural gas) [1]		10%	48%
Reduced natural gas usage (therms)		390,260	1,873,248
Natural gas emissions factor (MTCO2e/therm)		0.005322	0.005322
GHG reductions from existing nonresidential buildings natural gas savings (MTCO2e)		2,077	9,969
Additional electricity use and emissions			
Assumed average efficiency of natural gas heating [2] [3]		78%	78%
Assumed average efficiency of electric heating [4]		100%	100%
kWh per therm conversion		29.3	29.3
Total therms offset from natural gas heating use (therms)		390,260	3,902,601
Total electricity needed to offset natural gas heating (MWh)		8,919	89,190
Electricity emissions factor (MTCO2e/MWh)		0	0
Additional GHG emissions from electricity use (MTCO2e)		0	0
GHG Reductions from Energy-1.2 (MTCO2e)		**2,077**	**9,969**

Sources:

[1] Mozingo. 2021. Zero-Carbon Buildings in California: A Feasibility Study. Available: https://crec.berkeley.edu/uploads/16RD004_CREC_ZCB_Final_Report_w__Appendices_(1).pdf

[2] https://www.energy.gov/sites/prod/files/2014/05/f15/fupwg_may2014_new_gas_technologies.pdf

[3] https://www.aceee.org/sites/default/files/publications/researchreports/a1602.pdf

[4] U.S. DOE. 2021. Electric Resistance Heating. Available: https://www.energy.gov/energysaver/home-heating-systems/electric-resistance-heating#:~:text=Electric%20resistance%20heating%20is%20100,the%20fuel's%20energy%20into%20electricity.

Energy-2.1 **Require new residential development to be all-electric, zero net energy (ZNE) buildings (where the amount of energy used in a year equals the amount of energy generated on the site)**	**2019**	**2026**	**2030**	**2045**
All-electric new residential development				
Annual residential natural gas usage with legislative reductions (therms)	9,082,624	9,546,705	9,811,893	10,504,366
New natural gas usage (therms)		464,081	729,269	1,421,742
Reduced residential natural gas usage from all-electric new residential development starting in 2026 (therms)			265,189	957,662
Natural gas emissions factor (MTCO2e/therm)			0.005322	0.005322
GHG reductions from new residential buildings natural gas savings (MTCO2e)			1,411	5,097
Additional electricity use and emissions				
Assumed average efficiency of natural gas heating [1] [2]			78%	78%
Assumed average efficiency of electric heating [3]			100%	100%
kWh per therm conversion			29.3	29.3
Total therms offset from natural gas heating use (therms)			265,189	10,504,366
Total electricity needed to offset natural gas heating (MWh)			6,061	240,067
Electricity emissions factor (MTCO2e/MWh)			0	0
Additional GHG emissions from electricity use (MTCO2e)			0	0
GHG Reductions from Energy-2.1 (MTCO2e)			**1,411**	**5,097**

Sources:

[1] https://www.energy.gov/sites/prod/files/2014/05/f15/fupwg_may2014_new_gas_technologies.pdf

[2] https://www.aceee.org/sites/default/files/publications/researchreports/a1602.pdf

[3] U.S. DOE. 2021. Electric Resistance Heating. Available: https://www.energy.gov/energysaver/home-heating-systems/electric-resistance-heating#:~:text=Electric%20resistance%20heating%20is%20100,the%20fuel's%20energy%20into%20electricity.

Energy-2.2				
Require new nonresidential development to achieve energy efficiency above minimum State building code requirements (CAL Green Tier 2)	**2019**	**2026**	**2030**	**2045**
Efficient new nonresidential development - CAL Green Tier 2				
Annual nonresidential natural gas usage with legislative reductions (therms)	9,082,624	9,546,705	9,811,893	10,504,366
New natural gas usage (therms)		464,081	729,269	1,421,742
Annual nonresidential electricity usage with legislative reductions (kWh)	416,664,459	439,785,444	452,997,435	486,192,548
New electricity usage (kWh)		23,120,985	36,332,976	69,528,089
Annual nonresidential diesel usage with legislative reductions (gal)	92,209	97,326	100,250	107,596
New diesel usage (gal)		5,117	8,041	15,387
Reduction in new energy use from CAL Green Tier 2 compared to Title 24			30%	30%
Reduced natural gas usage from new nonresidential development starting in 2026 (therms)			79,557	287,299
Reduced electricity usage from new nonresidential development starting in 2026 (therms)			1,981,799	6,961,066
Reduced diesel usage from new nonresidential development starting in 2026 (therms)			439	1,541
Natural gas emissions factor (MTCO2e/therm)			0.005322	0.005322
Electricity emissions factor (MTCO2e/MWh)			0	0
Diesel emissions factor (MTCO2e/gal)			0.010229	0.010229
GHG reductions from new nonresidential buildings energy savings (MTCO2e)			428	1,545
Additional electricity use and emissions				
Assumed average efficiency of natural gas heating [1] [2]			78%	78%
Assumed average efficiency of electric heating [3]			100%	100%
kWh per therm conversion			29.3	29.3
Total therms offset from natural gas heating use (therms)			79,557	10,504,366
Total electricity needed to offset natural gas heating (MWh)			1,818	240,067
Electricity emissions factor (MTCO2e/MWh)			0	0
Additional GHG emissions from electricity use (MTCO2e)			0	0
GHG Reductions from Additional GHG emissions from electricity use (MTCO2e) (MTCO2e)			**428**	**1,545**
Sources:				
[1] https://www.energy.gov/sites/prod/files/2014/05/f15/fupwg_may2014_new_gas_technologies.pdf				
[2] https://www.aceee.org/sites/default/files/publications/researchreports/a1602.pdf				
[3] U.S. DOE. 2021. Electric Resistance Heating. Available: https://www.energy.gov/energysaver/home-heating-systems/electric-resistance-				

Strategy Code and Title	Measure Code	Measure Title	GHG Reduction Potential in 2030 (MTCO2e)	GHG Reduction Potential in 2045 (MTCO2e)	Percent of Total Reductions in 2030	Percent of Total Reductions in 2045	Quantification Approach
Using Equipment for Landscaping and Construction (Off-Road Vehicle and Equipment Sector)							
Strategy Offroad-1. Transition to electric and zero emissions technologies for landscaping equipment	Offroad-1.1	Replace existing gasoline and diesel-powered landscaping equipment with electric or zero emission alternatives	83	138	0%	0%	Assumes a 30% electrification rate of existing fossil fuel landscaping equipment by 2030, and 100% by 2045. Assumes a 30% renewable diesel/alternative fuels conversion rate by 2030.
	Offroad-1.2	Convert new landscaping equipment to electric or zero-emission alternatives	46	123	0%	0%	Assumes 100% of new landscaping equipment are zero-emission by 2024. Consistent with CARB's SORE regulations.
Strategy Offroad-2. Transition to electric and zero emissions technologies for construction equipment	Offroad-2.1	Increase electrification and use of alternative fuels in construction projects	1,681	9,248	2%	3%	Assumes a 10% electrification rate of existing fossil fuel construction equipment by 2030, and 50% by 2045. Assumes a 10% renewable diesel/alternative fuels conversion rate by 2030, and 40% by 2045. Assumes a 10% reduction in diesel generator use by 2030 and a 60% reduction by 2045.
	Offroad-2.2	Reduce construction vehicle idling	NA	NA	NA	NA	Non-quantified measure.

Offroad-1.1			
Replace existing gasoline and diesel-powered landscaping equipment with electric or zero emission alternatives	**2019**	**2030**	**2045**
Electric landscaping equipment			
Existing landscaping equipment emissions (MTCO2e)	138	138	138
Target electrification rate for existing landscaping equipment [1]		30%	100%
Reduced landscaping emissions (MTCO2e)		41	138
GHG reductions from electric landscaping equipment (MTCO2e)		41	138
Renewable diesel or other alternative fuels landscaping equipment			
Existing landscaping equipment emissions (MTCO2e)	138	138	138
Target renewable diesel/alternative fuels rate for existing landscaping equipment [1]		30%	0%
Reduced landscaping emissions (MTCO2e)		41	0
GHG reductions from renewable diesel landscaping equipment (MTCO2e)		41	-
GHG Reductions from Offroad-1.1 (MTCO2e)		**83**	**138**
Sources:			
[1] California Air Resources Board. 2021. 2021 SORE Rulemaking Staff Report. Available: https://ww2.arb.ca.gov/sites/default/files/barcu/regact/2021/sore21/isor.pdf			

Offroad-1.2				
Convert new landscaping equipment to electric or zero-emission altertives	**2019**	**2023**	**2030**	**2045**
Zero-emission new landscaping equipment starting in 2024				
Landscaping equipment emissions (MTCO2e)	138	164	211	287
New landscaping equipment emissions (MTCO2e)		26	73	150
New landscaping equipment emissions starting in 2024 (MTCO2e)			46	123
Percent of new landscaping equipment that is zero-emission [1]			100%	100%
Reduced landscaping emissions (MTCO2e)			46	123
GHG Reductions from Offroad-1.2 (MTCO2e)			**46**	**123**

Sources:

[1] California Air Resources Board. 2021. CARB approves updated regulations requiring most new small off-road engines be zero emission by 2024. Available: https://ww2.arb.ca.gov/news/carb-approves-updated-regulations-requiring-most-new-small-road-engines-be-zero-emission-2024

Offroad-2.1			
Increase electrification and use of altertive fuels in construction projects	**2019**	**2030**	**2045**
Electric construction equipment			
Construction emissions (MTCO2e)	5,350	7,500	9,675
Target electrification rate for construction equipment		10%	50%
Reduced construction equipment emissions (MTCO2e)		750	4,837
GHG reductions from electric construction equipment (MTCO2e)		750	4,837
Alternatively fueled construction equipment			
Construction emissions (MTCO2e)	5,350	7,500	9,675
Target renewable diesel or other alternative fuels rate for construction equipment		10%	40%
Reduced construction equipment emissions (MTCO2e)		750	3,870
GHG reductions from alternatively fueled construction equipment (MTCO2e)		750	3,870
Renewable diesel and other clean generator alternatives			
Dwelling Units	28,926	38,574	47,780
Employees	61,991	73,604	84,213
SQFT per employee (for average office space)	200	200	200
Total Commercial Office SQFT	12,398,275	14,720,777	16,842,698
CalEEMod Results for Construction-related generators used to construct new single family homes and commercial office space			
CalEEMod Inputs		**2019-2030**	**2030-2045**
Single Family Homes (Dwelling Unit)		9,648	9,206
Office Park (sqft)		2,322,502	2,121,921
Adjusted down to account for 33 acre limitation in CalEEMod 2020.4.0			
Single Family Homes (Dwelling Unit)		102	97
Office Park (sqft)		24,447	22,336
Adjustment Factor		95	95
Total Reported Construction Generator Emissions (MTCO2e)		209	142
Annual Reported Construction Generators Emissions (MTCO2e)		19	9
Readjusted Annual Construction Generator Emissions (MTCO2e)		1,808	901
Target reduction in diesel generator use from renewable diesel or other clean alternatives		10%	60%
GHG reductions from renewable diesel or other clean generators (MTCO2e)		181	541
GHG Reductions from Offroad-2.1 (MTCO2e)		**1,681**	**9,248**

Sources:

[1] CAPCOA. 2021. GHG Handbook. Available: https://www.airquality.org/ClimateChange/Documents/Final%20Handbook_AB434.pdf.
C-1-A Use Electric or Hybrid Powered Equipment and C-1-B Use Cleaner-Fuel Equipment

[2] CARB OFFROAD 2021 (Sacramento County 2019)

Strategy Code and Title	Measure Code	Measure Title	GHG Reduction Potential in 2030 (MTCO2e)	GHG Reduction Potential in 2045 (MTCO2e)	Percent of Total Reductions in 2030	Percent of Total Reductions in 2045	Quantification Approach
Using Water and Disposing of Waste at Homes and Businesses (Water and Solid Waste Sectors)							
Strategy Solid Waste-1. Avoid disposal of organic waste in landfills	Solid Waste-1.1	Increase recovery of edible food waste	8,845	32,590	11%	11%	Assumes a 30% reduction in landfill disposed waste compared to 2019 by 2030, and a 90% reduction by 2045.
	Solid Waste-1.2	Eliminate disposal of organic waste in landfills (food waste, yard waste)					

Solid Waste-1.1, Solid Waste-1.2				
Increase recovery of edible food waste; Elimite disposal of organic waste in landfills (food waste, yard waste)		**2019**	**2030**	**2045**
Achieve Zero Waste (i.e., 90% reduction below 2019 levels) by 2045				
Solid waste emissions (MTCO2e)		22,397	29,483	36,211
Percent reduction in landfill disposed waste compared to 2019			30%	90%
Reduced solid waste emissions (MTCO2e)			8,845	32,590
GHG Reductions from Solid Waste-1.1, Solid Waste-1.2 (MTCO2e)			**8,845**	**32,590**
Sources:				
Senate Bill 1383				
		2030	2045	
	Tons of waste	78,276	96,139	
	Reduced tons of waste	23,483	86,525	

Strategy Code and Title	Measure Code	Measure Title	GHG Reduction Potential in 2030 (MTCO2e)	GHG Reduction Potential in 2045 (MTCO2e)	Percent of Total Reductions in 2030	Percent of Total Reductions in 2045	Quantification Approach
Using Water and Disposing of Waste at Homes and Businesses (Water and Solid Waste Sectors)							
Strategy Water-1. Conserve water	Water-1.1	Reduce indoor water use in existing and new buildings	0	0	NA	NA	Annual reduction of 15,000 acre-feet (AF) of indoor water usage by 2030 and 28,000 AF by 2045.
	Water-1.2	Reduce outdoor water use for landscaping and irrigation in existing and new developments	0	0	NA	NA	Annual reduction of 15,000 AF of outdoor water usage by 2030 and 29,000 AF by 2045.

Water-1.1			
Reduce indoor water use in existing and new buildings	**2019**	**2030**	**2045**
Water use reduction in existing buildings			
Total existing water use (AF)	65,645	65,645	65,645
Total existing water-related electricity use (MWh)	38,926	38,926	38,926
Assumed percentage of indoor water use [1] [2]	60%	60%	60%
Indoor water use in existing buildings (AF)	39,387	39,387	39,387
Indoor water-related electricity use in existing buildings (MWh)	23,355	23,355	23,355
Percent reduction in indoor water use in existing buildings [1] [2] [3]		25%	40%
Reduction in indoor water use in existing buildings (AF)		9,847	15,755
Reduction in indoor water-related electricity use in existing buildings (MWh)		5,839	9,342
Electricity emissions factor (MTCO2e/MWh)		0	0
Reduced indoor water emissions from existing buildings (MTCO2e)		0	0
Water use reduction in new buildings			
Total water use (AF)	65,645	86,412	106,132
Total water-related electricity use (MWh)	38,926	51,240	62,934
Total water use in new buildings (AF)		20,767	40,487
Total water-related electricity use in new buildings (MWh)		12,315	24,008
Assumed percentage of indoor water use [1] [2]	60%	60%	60%
Indoor water use in new buildings (AF)		12,460	24,292
Indoor water-related electricity use in new buildings (MWh)		7,389	14,405
Percent reduction in indoor water use in new buildings [1] [2] [3] [4]		40%	50%
Reduction in indoor water use in new buildings (AF)		4,984	12,146
Reduction in indoor water-related electricity use in new buildings (MWh)		2,956	7,202
Electricity emissions factor (MTCO2e/MWh)		0	0
Reduced indoor water emissions from new buildings (MTCO2e)	0		0
GHG Reductions from Water-1.1 (MTCO2e)	**0**		**0**

Sources:

[1] Pacific Institute and Natural Resources Defense Council. 2014. Urban Water Conservation and Efficiency Potential in California. Available: https://pacinst.org/wp-content/uploads/2014/06/ca-water-urban.pdf

[2] U.S. Environmental Protection Agency. 2022. WaterSense - Statistics and Facts. Available: https://www.epa.gov/watersense/statistics-and-facts

[3] CAPCOA. 2010. Quantifying Greenhouse Gas Mitigation Measures. WUW-1. Available: http://www.capcoa.org/wp-content/uploads/downloads/2010/09/CAPCOA-Quantification-Report-9-14-Final.pdf
WUW-1: 20% for residential and 31% for nonresidential low-flow fixtures. Assuming increase for ultra-low-flow, especially in new development

[4] U.S. Environmental Protection Agency. 2017. Water-Smart Landscapes -Start with WaterSense. Available: https://www.epa.gov/sites/default/files/2017-01/documents/ws-outdoor-water-efficient-landscaping.pdf

Water-1.2 Reduce outdoor water use for landscaping and irrigation in existing and new developments	2019	2030	2045
Outdoor water use reduction in existing buildings			
Total existing water use (AF)	65,645	65,645	65,645
Total existing water-related electricity use (MWh)	38,926	38,926	38,926
Assumed percentage of outdoor water use [1] [2]	40%	40%	40%
Outdoor water use in existing buildings (AF)	26,258	26,258	26,258
Outdoor water-related electricity use in existing buildings (MWh)	15,570	15,570	15,570
Percent reduction in outdoor water use in existing buildings [1] [2] [3] [4]		40%	60%
Reduction in outdoor water use in existing buildings (AF)		10,503	15,755
Reduction in outdoor water-related electricity use in existing buildings (MWh)		6,228	9,342
Electricity emissions factor (MTCO2e/MWh)		0	0
Reduced outdoor water emissions from existing buildings (MTCO2e)		0	0
Outdoor water use reduction in new buildings			
Total water use (AF)	65,645	86,412	106,132
Total water-related electricity use (MWh)	38,926	51,240	62,934
Total water use in new buildings (AF)		20,767	40,487
Total water-related electricity use in new buildings (MWh)		12,315	24,008
Assumed percentage of outdoor water use [1] [2]	40%	40%	40%
Outdoor water use in new buildings (AF)		8,307	16,195
Outdoor water-related electricity use in new buildings (MWh)		4,926	9,603
Percent reduction in outdoor water use in new buildings [1] [2] [3] [4]		50%	80%
Reduction in outdoor water use in new buildings (AF)		4,153	12,956
Reduction in outdoor water-related electricity use in new buildings (MWh)		2,463	7,683
Electricity emissions factor (MTCO2e/MWh)		0	0
Reduced outdoor water emissions from new buildings (MTCO2e)		0	0
GHG Reductions from Water-1.2 (MTCO2e)		**0**	**0**

Sources:

[1] Pacific Institute and Natural Resources Defense Council. 2014. Urban Water Conservation and Efficiency Potential in California. Available: https://pacinst.org/wp-content/uploads/2014/06/ca-water-urban.pdf

[2] U.S. Environmental Protection Agency. 2022. WaterSense - Statistics and Facts. Available: https://www.epa.gov/watersense/statistics-and-facts

[3] CAPCOA. 2010. Quantifying Greenhouse Gas Mitigation Measures. WUW-2 through WUW-6. Available: http://www.capcoa.org/wp-content/uploads/downloads/2010/09/CAPCOA-Quantification-Report-9-14-Final.pdf

[4] U.S. Environmental Protection Agency. 2017. Water-Smart Landscapes -Start with WaterSense. Available: https://www.epa.gov/sites/default/files/2017-01/documents/ws-outdoor-water-efficient-landscaping.pdf

Strategy Code and Title	Measure Code	Measure Title	GHG Reduction Potential in 2030 (MTCO2e)	GHG Reduction Potential in 2045 (MTCO2e)	Percent of Total Reductions in 2030	Percent of Total Reductions in 2045	
Planting and Managing Trees (Carbon Sequestration Sector)							
Strategy Carbon Sequestration-1. Remove emissions from the atmosphere	Carbon Storage-1.1	Increase the number of trees in the city, through new plantings and management of existing trees	441	1,042	1%	0%	Assumed 750 new residential trees and 750 new City-managed trees planted every year. Used existing (2019) tree inventory and carbon sequestration data from the City's 2022 Urban Forest Master Plan.

Carbon Storage-1.1			
Increase the number of trees in the city, through new plantings and management of existing trees	**2019**	**2030**	**2045**
Planting new trees			
Existing trees [1]	3,910		
Annual carbon sequestration from existing trees (metric tons carbon/year) [1]	29		
Conversion factor for carbon to carbon dioxide (ratio of molecular weights = 44/12)	3.67		
Annual carbon sequestration per tree (MTCO2e/tree/year)	0.02673		
New residential trees per year [1]	750		
New City-managed trees per year [1]	750		
Total new trees [1]		16,500	39,000
Increased carbon sequestration from new trees (MTCO2e)		441	1,042
GHG Reductions from Carbon Storage-1.1 (MTCO2e)		**441**	**1,042**

Sources:

[1] City of Rancho Cordova. 2022. Rancho Cordova Urban Forest Master Plan. Available: https://www.cityofranchocordova.org/home/showpublisheddocument/18231/637880482211700000

Appendix F

Vulnerability Assessment
(Technical Memorandum)

455 Capitol Mall, Suite 300
Sacramento, CA 95814
916.444.7301

Date: October 11, 2021

To: Stefan Heisler

From: Kai Lord-Farmer, Dan Krekelberg, and Honey Walters (Ascent Environmental)

Subject: City of Rancho Cordova Climate Action Plan – Vulnerability Assessment

1 INTRODUCTION

Global climate change is projected to exacerbate the impacts of certain hazards that the City of Rancho Cordova (City) is already exposed to under current conditions. These hazards include indirect impacts from wildfires and effects on air quality, extreme heat, heat wave events, long-term drought, and flooding. While many of these hazards have existed historically for the City, the frequency and intensity of these hazards will increase as a result of global climate change. This Vulnerability Assessment (VA) serves to identify and analyze impacts of climate change that will most directly affect the City. The VA includes a climate change vulnerability assessment and serves to inform development of adaptation strategies by analyzing the City's exposure to existing hazards, sensitivity to these hazards, potential climate-related impacts from these hazards, and the City's existing capacity to prepare and adapt for these impacts, known as adaptive capacity.

1.1 CLIMATE CHANGE MITIGATION AND ADAPTATION

The effects of climate change are already being experienced today. The combustion of fossil fuels, among other human activities, since the Industrial Revolution in the 19th century has introduced greenhouse gases (GHGs) into the atmosphere at an accelerated pace, intensifying the greenhouse effect and leading to a trend of warming of the Earth's climate, known as global climate change or global warming. Climate change has more recently become a priority on an international, national, and local scale as recent climate data reveal more extreme weather patterns, increased average global temperatures, and the rapid melting of the Earth's Artic and Antarctic poles and glaciers.

The Intergovernmental Panel on Climate Change (IPCC), the international body charged with compiling and interpreting the data surrounding climate change, estimates that global average temperatures will increase by 3.7 degrees Celsius (°C) (6.7 to 8.6 degrees Fahrenheit [°F]) by the end of the century unless additional efforts to reduce GHG emissions are made (IPCC 2014). A more recent IPCC report indicates that average global temperatures will likely increase by 1.5 °C (2.7 °F) between 2030 and 2052 if global GHG emissions continue their current rate (IPCC 2018). There is consensus among the scientific community that a 1.5 °C (2.7 °F) rise in global temperatures will likely cause catastrophic environmental disasters in certain locations including extreme heat, sea-level rise, and more severe and damaging precipitation events. These changes to Earth's climate would contribute to more frequent storms and flooding, the displacement of coastal and tropical populations, food and water insecurity, catastrophic wildfire events, economic hardships, loss of biological resources, increased spread of vector-borne diseases, and degraded ambient air quality (IPCC 2018).

In August 2021, IPCC released the Six Assessment report which assess scientific, technical, and socio-economic information concerning climate change. In this report, the IPCC states that observed increases in GHG concentrations in the atmosphere since around the year 1750 are unequivocally caused by human activities. As a result, Each of the last four decades has been successively warmer than any decade that preceded it since 1850 (IPCC 2021). The findings of highlight key new insights into the importance of global climate tipping points, thresholds in the global climate (e.g., global temperatures) that, when exceeded, can lead to large changes in the state of the climate system with one impact rapidly leading to a series of cascading events.

The Six Assessment report contain the body's strongest warnings yet on the causes and impacts of climate change. Importantly, the report notes that, in terms of solutions, "We need transformational change operating on processes and behaviors at all levels: individual, communities, business, institutions and governments. We must redefine our way of life and consumption (IPCC 2021)."

Efforts that focus on reducing the sources of climate change are termed climate change mitigation, GHG mitigation, or climate action. Efforts to reduce harm from the effects of a changing climate, are referred to as climate adaptation and resilience. Figure 1 illustrates the relationship between these two approaches. State law requires communities to address climate change mitigation in local planning and environmental review processes and climate adaptation in local long-range planning processes, such as general plans (CalOES 2020). Included below is a summary of the State requirements to address climate adaptation as part of the local planning process.

- Senate Bill 379 – This bill requires all cities and counties to include climate adaptation and resiliency strategies in the next update of their General Plans beginning January 1, 2017. The update must include:
    - A vulnerability assessment that identifies the risks that climate change poses to the local jurisdiction and the geographic areas at risk from climate change impacts;
    - A set of adaptation and resilience goals, policies, and objectives based on the information specified in the climate vulnerability assessment for the protection of the community; and
    - A set of feasible implementation measures designed to carry out the goals, policies, and objectives identified pursuant to the adaptation objectives
- Assembly Bill 747 – Requires the safety elements for cities and counties to be reviewed and updated as necessary to identify evacuation routes and their capacity, safety, and viability under a range of emergency scenarios upon the next revision of a local hazard mitigation plan on or after January 1, 2022, or beginning on or before January 1, 2022 if a local jurisdiction has not adopted a local hazard mitigation plan.
- Senate Bill 99 - This bill requires cities and counties, upon the next revision of the housing element on or after January 1, 2020, to review and update the safety element to include information identifying residential developments in hazard areas that do not have at least 2 emergency evacuation routes.
- Senate Bill 1035 – This bill requires cities and counties to revise the safety element upon each revision of the housing element or local hazard mitigation plan, but not less than once every 8 years, to identify new information relating to flood and fire hazards and climate adaptation and resiliency strategies applicable to the city or county that was not available during the previous revision of the safety element.

Source: CalOES 2020, adapted by Ascent Environmental in 2021.

Figure 1 Relationship Between Climate Mitigation and Adaptation

1.2 GUIDANCE DOCUMENTS

This section provides a summary of the guidance documents and resources that were used to help develop the VA.

California Adaptation Planning Guide

The most recent version of the California Adaptation Planning Guide (APG) was released in March 2020. This guidance builds upon the first iteration of the APG released in 2012. The APG was developed by the California Office of Emergency Services (CalOES) and California Natural Resources Agency (CNRA). The APG provides guidance to local governments for adaptation and climate change resiliency planning. The APG includes a step-by-step process that communities may use to help plan for the impacts of climate change. The APG is designed to be flexible and guide communities through an adaptation planning process that is best suited for their needs (CalOES 2020).

California's Fourth Climate Assessment

CNRA, the Governor's Office of Planning and Research (OPR), and the California Energy Commission (CEC) prepared California's Fourth Climate Change Assessment (Climate Assessment) in 2018. The Climate Assessment was designed to address critical information gaps that decisionmakers at the State, regional, and local levels need to close to protect and build the resilience of people, infrastructure, natural systems, working lands, and waterways from climate-related impacts. The Climate Assessment also includes regional reports which analyze and discuss the impacts to

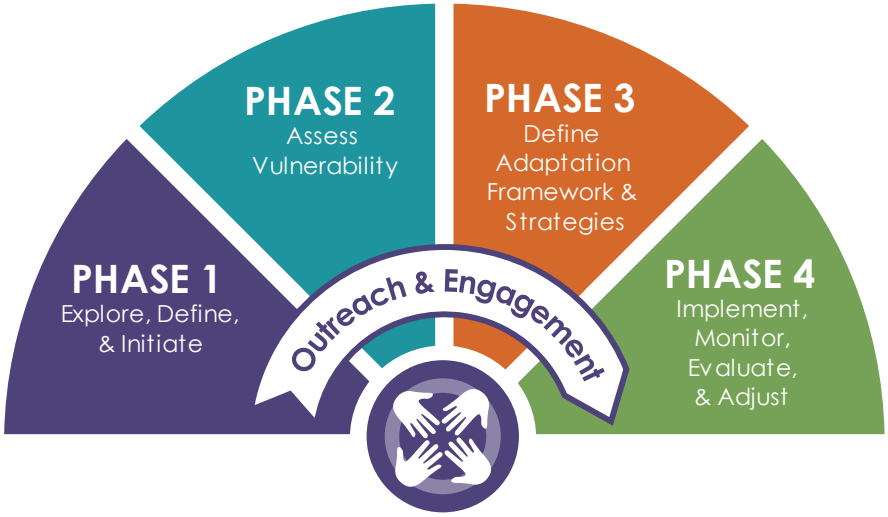
specific regions in the state. The regional report for the City and County is the California's Fourth Climate Change Assessment Sacramento Valley Region Report (Regional Report). The Climate Assessment and Regional Report are referenced throughout this VA to provide information regarding regional climate change impacts.

Safeguarding California Plan

Alongside the update to the Climate Assessment, CNRA released the Safeguarding California Plan in 2018 which provides a roadmap for State government action to build climate resilience. The Safeguarding California Plan identifies actions the State government will take to protect communities, infrastructure, services, and the natural environment from climate change impacts and includes strategies for use as local examples for climate adaptation.

1.3 ADAPTATION PLANNING PROCESS

The APG provides guidance for communities throughout the state in planning for and adapting to the impacts of climate change. The APG includes a four-phase process, illustrated in Figure 2 which allows communities to assess their specific climate vulnerabilities and provides guidance on developing strategies to reduce climate change-related risks and prepare for current and future impacts of climate change.



Source: CalOES 2020, adapted by Ascent Environmental in 2021.

Figure 2 Adaptation Planning Process

- **Phase 1, "Explore, Define, and Initiate,"** includes scoping and defining the adaptation planning effort. Phase 1 also involves identifying key roles and stakeholders in the local government and throughout the community to contribute to the planning process. Potential climate change effects and important physical, social, and natural assets in the community are identified for further analysis.
- **Phase 2, "Assess Vulnerability,"** includes an analysis of potential climate change impacts and adaptive capacity to determine the vulnerability of populations, natural resources, and community assets. The vulnerability assessment is composed of four steps: exposure, sensitivity and potential impacts, adaptive capacity, and vulnerability scoring. Phase 2 also integrates stakeholder and public input to provide a comprehensive assessment of the community's sensitivity to climate change and its ability to adapt.

- **Phase 3, "Define Adaptation Framework and Strategies,"** focuses on creating an adaptation framework and developing adaptation strategies based on the results of the vulnerability assessment. Adaptation strategies identify how the community will address the potential for harm based on the community's resources, goals, values, needs, and regional context. Community input is needed to prioritize adaptation strategies, identify co-benefits of strategies, and determine implementation steps.
- **Phase 4, "Implement, Monitor, Evaluate, and Adjust,"** the adaptation framework is implemented, consistently monitored, evaluated, and adjusted based on continual learning, feedback, or triggers. The adaptation planning process is intended to be cyclical in nature. Adaptation goals and strategieswill be included in the City's CAP which will contain a chapter that enumerates implementation planning policies. This section of the CAP will guide the implementation, monitoring, and evaluation of the adaptation policies.

The ultimate goal of the adaptation planning process is to improve community resilience in the face of a changing climate. A resilient community is one that is prepared for current and future hazardous conditions and experiences less harm when a disaster happens. Resilient communities can prepare for and recover from hazards with an understanding that the climate is going to continue to change in predictable and unforeseen ways. Ongoing learning and monitoring of strategy implementation allow for adjustments to be made in response to new information and opportunities.

2 VULNERABILITY ASSESSMENT

This section provides a comprehensive assessment of the City's vulnerabilities to climate change. It identifies and characterizes the climate-related hazards and other climate effects that are anticipated to affect the City. The vulnerability assessment follows the process outlined in Phase 2 of the APG and is composed of the following four steps:

Exposure: The purpose of this step is to understand existing hazards within the City and how changes in climate variables (e.g., average temperature, precipitation) are projected to affect these hazards. Existing hazards that can be worsened by the effects of climate change are identified and described, based on historical data from sources such as the City's Local Hazard Mitigation Plan.

Sensitivity and Potential Impacts: This step identifies a list of population groups and community assets that are sensitive to localized climate impacts. Climate-related hazards (e.g., flooding, wildfire) are generally projected to increase in severity, with the potential for climate change to generate new impacts that communities have not experienced historically. Using historical data, research from regional and State reports on climate impacts, and input from stakeholders, this step seeks to understand how sensitive populations and assets may be affected by climate impacts. Each hazard included in the VA is analyzed and given a qualitative score based on the criteria listed below in Table 1.

Table 1 Potential Impact Scoring

Score	Potential Impact
Low	Impact is unlikely based on projected exposure; would result in minor consequences to public health, safety, and/or other metrics of concern.
Medium	Impact is somewhat likely based on projected exposure; would result in some consequences to public health, safety, and/or other metrics of concern.
High	Impact is highly likely based on projected exposure; would result in substantial consequences to public health, safety, and/or other metrics of concern.

Source: CalOES 2020.

Adaptive Capacity: The City, partner agencies, and regional organizations (e.g., Sacramento County, Sacramento Area Council of Governments)have already taken steps to build resilience and protect sensitive populations and assets from existing hazards. A full summary of partner agencies and regional organizations and their climate adaptation-

related work is included in Section 2.6 "Adaptive Capacity". Thus, the purpose of this step is to identify the City's and partner agencies' current capacity to address future climate impacts, referred to as adaptive capacity. The ability of the City to adapt to each of the identified climate impacts is determined through a review of existing plans, policies, and programs, and through stakeholder engagement. Adaptive capacity ratings are described in Table 2.

Table 1 Potential Impact and Adaptive Capacity Scoring

Score	Adaptive Capacity
Low	The population or asset lacks capability to manage climate impact; major changes would be required.
Medium	The population or asset has some capacity to manage climate impact; some changes would be required.
High	The population or asset has high capacity to manage climate impact; minimal to no changes are required.

Source: CalOES 2020.

Vulnerability Scoring: This step determines the City's priority climate vulnerabilities through a scoring process. Vulnerability scores are based on several factors including the severity of projected climate impacts, how sensitive certain populations and assets are to anticipated climate impacts, and whether sufficient adaptive capacity exists to manage future climate impacts. Table 3 presents the rubric used to determine the overall vulnerability scores based on the ratings for potential impacts and adaptive capacity.

Table 3 Vulnerability Scoring

		Vulnerability Score		
Potential Impacts	High	3	4	5
	Medium	2	3	4
	Low	1	2	3
		High	Medium	Low
		Adaptive Capacity		

Source: CalOES 2020.

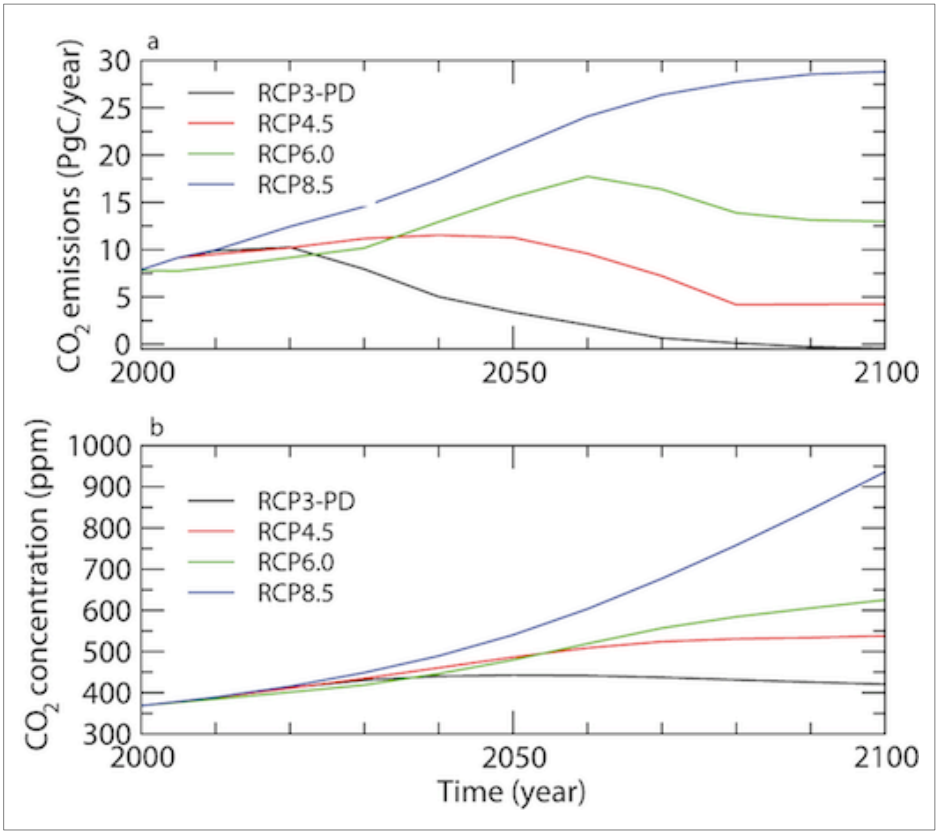
The vulnerability assessment helps the City understand which climate vulnerabilities are most urgent and should be prioritized during the adaptation strategy development phase as well as during strategy implementation.

Climate Change Impact Modeling and Projections

According to the work of IPCC and research conducted by the State alongside partner agencies and organizations, climate change is already affecting and will continue to affect the physical environment throughout California, including the City. To identify the local impacts of climate change in California, the CEC, and the University of California, Berkeley Geospatial Innovation Facility developed the scenario planning tool Cal-Adapt. The Cal-Adapt tool uses global climate simulation model data downscaled to a local and regional resolution to identify localized impacts from various climate metrics. Developers of the Cal-Adapt tool selected four priority global climate models to include in projections provided in the tool. This analysis uses the average of these four models to identify changes in temperature and extreme heat events.

The projected effects of climate change over the next century will vary depending on global GHG emissions trends. The Cal-Adapt tool includes global climate simulation model data from two emissions scenarios, known as Representative Concentration Pathways (RCPs), that were used in the IPCC's Fifth Assessment Report. The RCPs represent scenarios that estimate the level of global GHG emissions through 2099. The RCP scenarios used in the Cal-Adapt tool are the RCP 8.5 (High Emissions) scenario, which represents a business-as-usual future emissions scenario that would result in atmospheric CO_2 concentrations exceeding 900 parts per million (ppm) by 2100, and the RCP 4.5 (Medium Emissions) scenario, which represents a lower GHG emissions future and likely the best-case scenario for

climate impacts, under which GHG emissions would peak in 2040 and then decline through the rest of the century, resulting in a CO_2 concentration of about 550 ppm by 2100. The RCP trends assumed in the analysis are illustrated in Figure 3. The emissions scenarios depend on global GHG emissions trends in the future and the efficacy of global GHG reduction strategies proposed by the international community. Because the efficacy of the GHG reduction strategies and the likelihood that a certain RCP scenario will occur are uncertain, a discussion of both emissions scenarios and their subsequent impacts are included in this analysis.



Notes: CO_2= carbon dioxide; ppm = parts per million; PgC = one billion metric tons of carbon; RCP = Representative Concentration Pathway.

Source: Goosse et al. 2010.

Figure 3 Representative Concentration Pathway Used in Global Climate Modeling

The State's *Adaptation Planning Guide 2.0* (CalOES 2020) provides guidance on choosing appropriate RCP scenarios to be included in the analysis. For analysis of impacts through 2050, the draft *Adaptation Planning Guide 2.0* suggests using a conservative approach based on the High Emissions scenario, but notes that impacts by 2050 under the Medium and High Emissions scenarios will vary based on local context.

The Cal-Adapt tool provides data on projected changes in annual average temperature and changes in the frequency and severity of extreme heat events. This analysis uses Cal-Adapt data to evaluate increases in annual average maximum temperatures, as well as shifts in the duration and frequency of extreme heat events in the future. The analysis also identifies at what point over the next approximately 80 years (2021–2099) changes in temperature and extreme heat events will begin to occur and at what magnitude. This exposure analysis uses the following time periods to analyze changes in climate variables under the Medium Emissions scenario for the near-term and midterm periods and Medium and High Emissions scenarios for the long-term period. The time periods are established as 30-year time intervals to gather accurate data on average changes in the climate, which is typically measured over 30-

year time periods or longer. This results in overlap among some time periods. Due to annual fluctuations in climate variables, climate data on shorter time periods may be less accurate and not reflect long-term averages (NOAA 2018). The three time periods are:

- near-term (2021–2050),
- midterm (2040–2070), and
- long-term (2070–2099).

2.1 COMMUNITY OVERVIEW

The City covers approximately 34.8 square miles of land, the majority of which historically consisted of flat grassland and oak woodlands. The City is generally bordered by the American River to the north, Hazel Ave and the boundary of the 100-year floodplain for the Consumnes River on the east, Jackson Highway on the south, and Bradshaw Road on the west.

Population Overview

The U.S. Census bureau estimates the City's population to be 75,086 persons as of July 2019 (U.S. Census Bureau 2021). Table 4 illustrates the City's demographics by sex, race, and age according to the U.S. Census. As shown, the majority of residents identify as white with those identifying as Hispanic being the second largest demographic group. In terms of youth and elderly populations, 42 percent of City residents are either under 18 years or over 65 years old, populations at increased risk from climate-related hazards. The City is highly educated: 88 percent of the population over 25 years old has at least a high school degree, and 29 percent of the population over 25 years old has a bachelor's degree or higher (U.S. Census Bureau 2021).

Table 4 City Demographics by Sex, Race, and Age

Demographic Characteristics	City of Rancho Cordova	Sacramento County
Population	47,459	1,552,058
Male	48%	49%
Female	52%	51%
White alone	42%	44%
Hispanic or Latino	23%	39%
Asian alone	14%	16%
Two or more races	9%	6%
Black or African American alone	10%	9%
American Indian and Alaska Native alone	0.4%	0.4%
Persons under 18 years	28%	23%
Between 18 and 64 years	59%	62%
Persons 65 years and older	13%	14%

Source: U.S. Census Bureau 2021.

2.2 TEMPERATURE AND EXTREME HEAT ANALYSIS

Existing and Future Temperatures and Extreme Heat

The City has a mediterranean climate characterized by mild winters and hot, dry summers. The wet season runs from October through April, though there is occasional light rainfall in the summer months. The annual temperature mean is 61.1 °F, with monthly means ranging from 45.8°F in December to 75.4 °F in July. Summer high temperatures are often moderated by the "delta breeze": which comes through the Sacramento-San Joaquin River Delta from the San Francisco Bay. The City experiences temperatures in excess of 100°F during the summer and fall months, reaching daily maximum temperatures of 105-115°F (Sacramento County 2021).

As discussed in *California's Fourth Climate Change Assessment Sacramento Valley Region Report*, changes in temperature and extreme heat events in northern California are anticipated to affect the Sacramento Valley Region (boundary defined in the Regional Report) (OPR et al. 2018). Changes for the Sacramento Valley region include more warming in the summer than the winter (with July–September increases of 2.7°F–10.8°F) and greater warming inland than in coastal regions (by as much as 7.2°F) (Pierce et al. 2018). Table 5 provides a summary of the projected temperature increases over the century for the City.

Future Changes in Temperature and Extreme Heat

As shown in Table 5, both annual maximum and minimum are projected to increase throughout the 21st century. The average annual maximum temperature in the City is projected to increase approximately six percent from 74.2°F historically (1961-1990) to 78.3°F in the near-term and increase approximately eight percent to 79.8°F in the midterm. The average annual maximum temperature is projected to increase eight to 12 percent to 80.2°F and 83.1°F in the late-century period under the medium and high emissions scenarios, respectively. The average annual minimum temperature in the City is projected to increase approximately five percent from 49.3°F historically (1961-1990) to 52.9°F in the near-term and increase approximately six percent to 54.1°F in the midterm. In the late-century period, average annual minimum temperature is projected to increase between seven and 11 percent to 54.3°F and 57.7°F under the medium and high emissions scenarios, respectively (CEC 2021a). Increased temperatures in the City will influence secondary climate effects, including extreme heat events, wildfire, and drought. Figure 4 below illustrate the changes in annual average maximum temperature in the City and the County, highlighting the variability in temperature increases across the County throughout the 21st century.

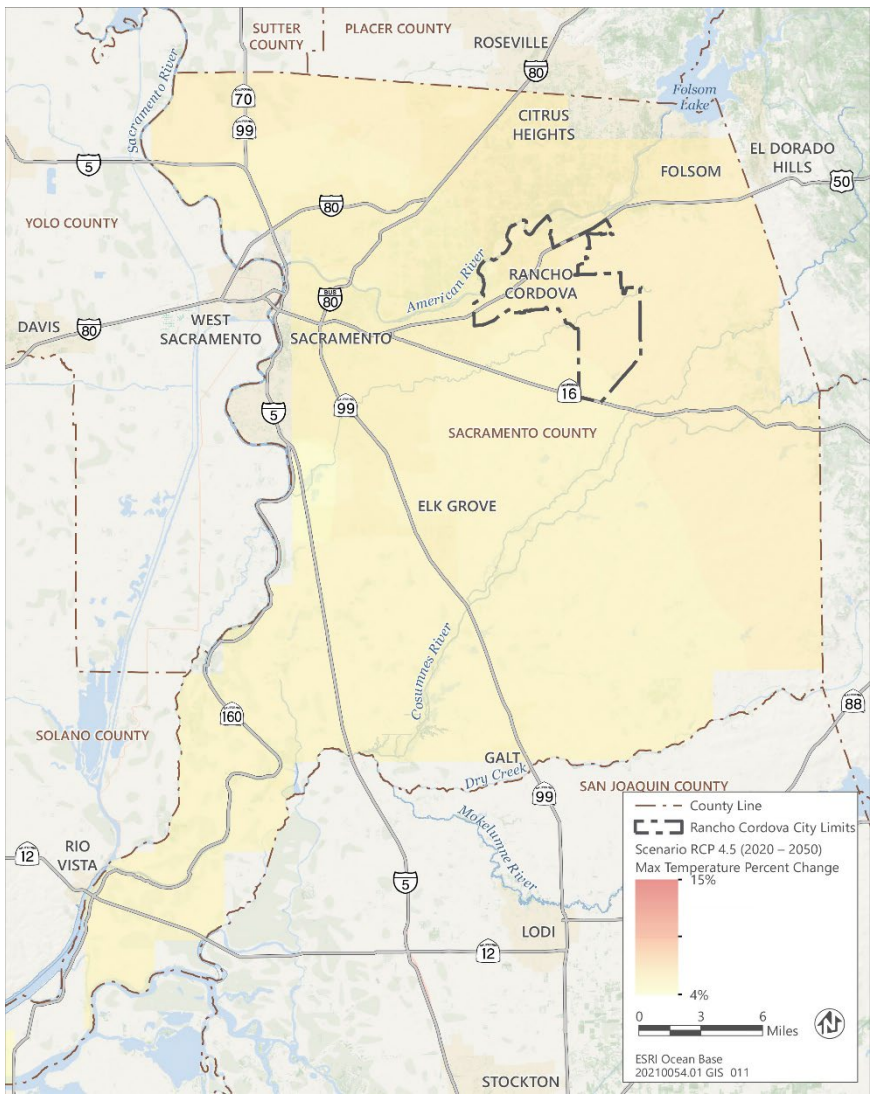
Table 5 Changes in Average Annual Temperature in the City of Rancho Cordova

Geography	Average Annual Temperature	Historic Average Annual Temperature (1961-1990)	Near-Term (2021-2050)	Midterm (2040-2070)	Late-Century (2070-2099)	
					Medium Emissions	High Emissions
City of Rancho Cordova	Maximum Temperature (°F)	74.2	78.3	79.8	80.2	83.1
	Minimum Temperature (°F)	49.3	52.9	54.1	54.3	57.7

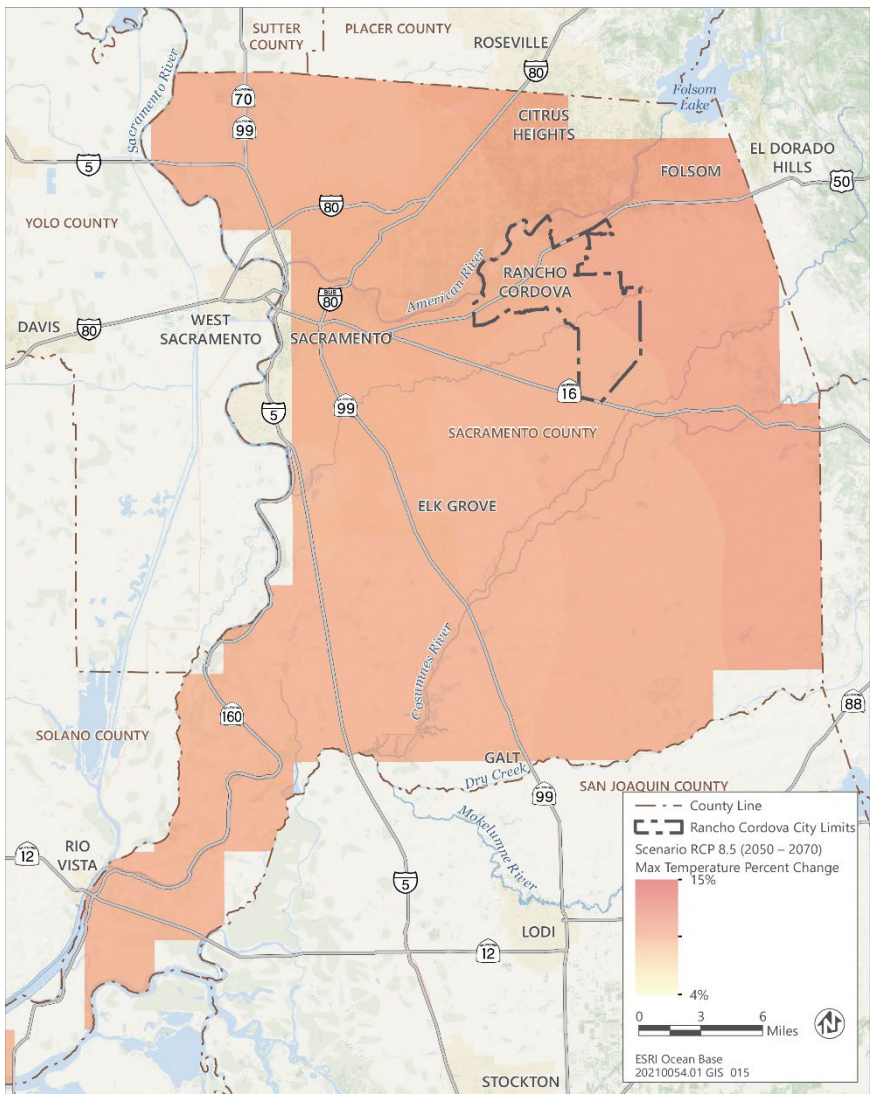
Notes: °F = degrees Fahrenheit.

Source: CEC 2021a.

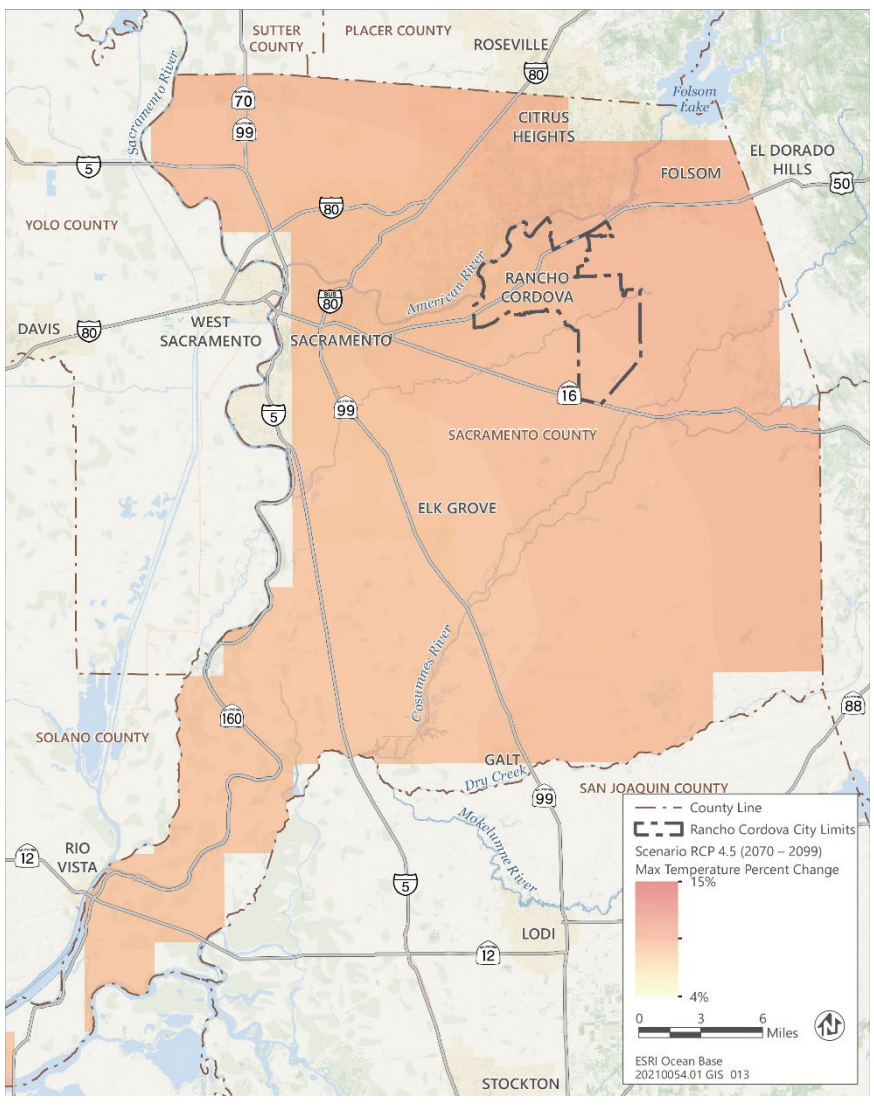
Near-Term (2021 – 2050)



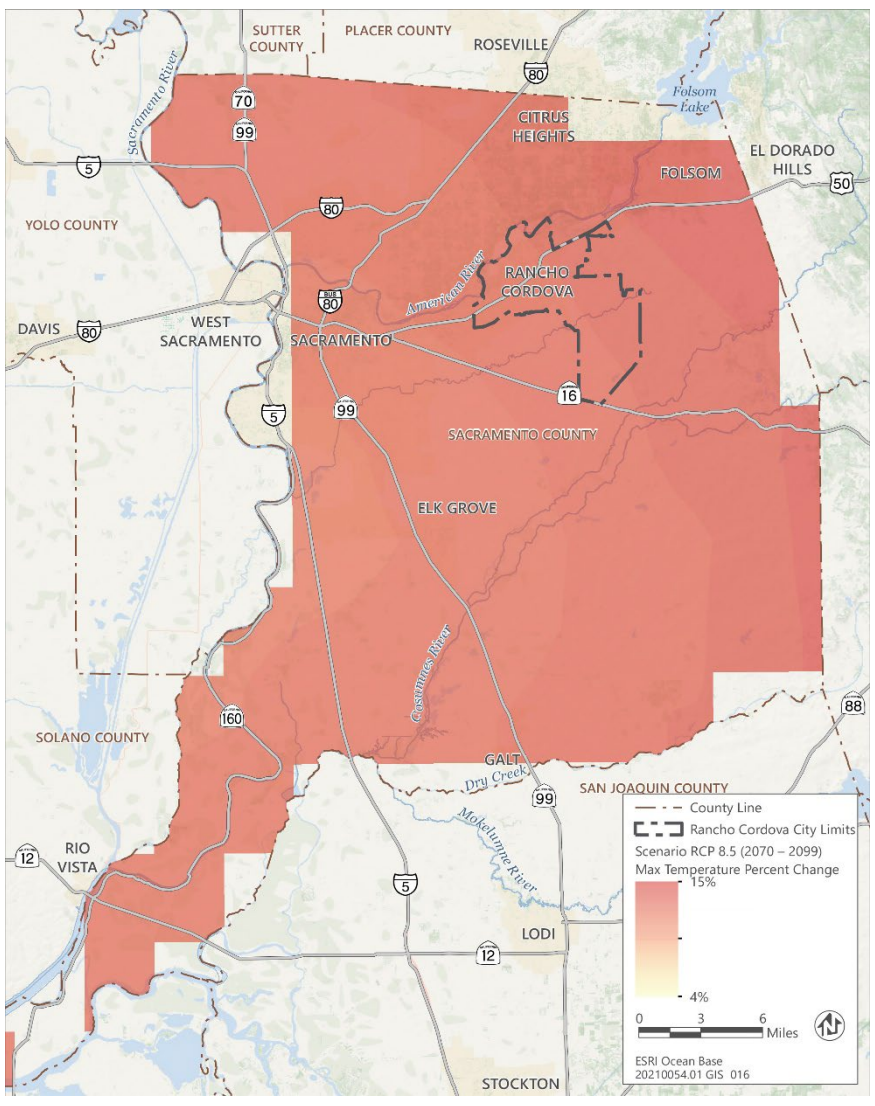
Midterm (2040 – 2070)



Medium Emissions - Late Term (2070 – 2099)



High Emissions - Late Term (2070 – 2099)



Source: Data downloaded from CEC and DWR in 2019.

Figure 4 Sacramento County Annual Average Maximum Temperature through 2099

Along with increases in annual average temperature, the City is anticipated to experience increases in the average number of extreme heat days per year, as well as increases in the frequency and duration of heat wave events. Based on the parameters set in Cal-Adapt and for the purposes of this analysis, an extreme heat day is defined as a day between April and October with a maximum temperature of 103.6°F or above. This threshold was chosen because it is the 98th percentile of historic maximum temperature for days in the historic period (1961–1990), meaning 98 percent of all recorded temperatures in this period were below 103.6°F. This is also the recommended threshold by the Extreme Heat tool in Cal-Adapt. For the purposes of this analysis, a heat wave event is defined as a series of 4 or more days above 103.6°F. Table 6 illustrates the projected changes in extreme heat events. In the historic period, the maximum duration of days above 103.6°F is 2.5 days, which does not qualify as a heat wave based on the heat wave threshold used. By the midterm period, the City will experience heat wave events that qualify based on the established threshold.

Table 6 Changes in Extreme Heat in the City of Rancho Cordova

Extreme Heat Event	Extreme Heat Event Metric	Historic (1961-1990)	Near-Term (2021-2050)	Midterm (2040-2070)	Late-Century (2070-2099)	
					Medium Emissions	High Emissions
Extreme heat days	Days above 103.6°F	4	19	32	29	48
Heat wave events	4-day period above 103.6°F	0.2	1.4	4.8	4.0	7.8
Heat wave duration	Consecutive days above 103.6°F	2.5	6.3	7.2	8.5	14.2

Notes: °F = degrees Fahrenheit.

Source: CEC 2021a.

As shown in Table 6, while heat waves have historically been infrequent in the City, with a historical average of less than one heat wave annually, climate change is expected to increase the frequency of heat waves. Under the high emissions scenario, the City is projected to still experience 19 extreme heat days in the near-term and 32 extreme heat days annually in the mid-term. By the late-century, the City will experience 29 extreme heat days per year under the medium emissions scenario and 48 extreme heat days per year under the high emissions scenarios.

In terms of heat wave events, the City is projected to experience approximately 1.4 heat waves per year in the near-term and 4.8 heat wave events in the midterm. By the late-century, the City is projected to experience 4 heat waves per year under the medium emissions scenario and 7.8 heat waves per year under the high emissions scenarios. The average number of days in the longest stretch of consecutive extreme heat days per year is also projected to increase. Historically, the longest stretch of consecutive extreme heat days lasted for an average duration of approximately two-and-a-half days. The longest stretch of consecutive extreme heat days is projected to increase significantly to 6.3 days in the near-term period and 7.2 days by the midterm period. By late-century, the duration is projected to increase to an maximum length of 8.5 days under the medium emissions scenario and 14.2 days under the high emissions scenario (CEC 2021b). The timing of extreme heat days is also projected to change over the 21st century with more extreme heat days and heat wave events occurring earlier in the year (April through May) and more severe events occurring in the historically hot months of September and October (CEC 2021b).

Extreme Heat Sensitivity and Impacts

This section provides an overview of the anticipated impacts on the City from the increases in temperature and extreme heat, discussed above, and subsequent secondary impacts. The impact discussion is organized around the three analysis time periods.

Based on the information included in the exposure analysis, the impact analysis is intended to identify and describe impacts on the City's built environment, vulnerable populations, and community functions anticipated to result from temperature increases and increases in the frequency and severity of extreme heat events. To help better understand

how and when these impacts will occur, a series of threshold indicators are used to assess how various aspects of the City's normal functions are affected when temperature-related thresholds are exceeded.

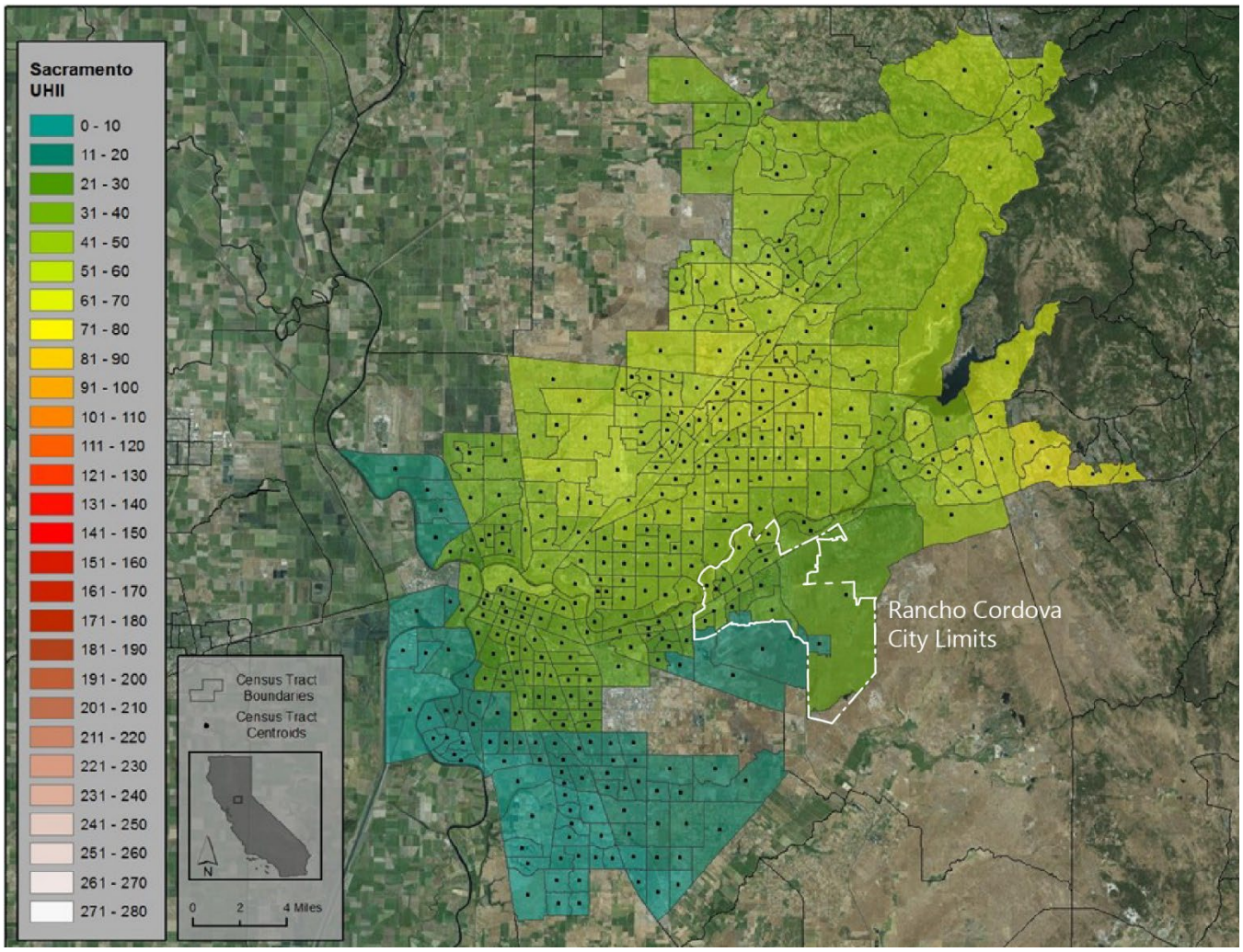
Existing Heat Sensitivities and Urban Heat Island Effect

Although the City's mediterranean climate includes high temperatures during summer and fall months, the City's urban land use patterns can intensify periods of extreme heat through the "urban heat island" (UHI) effect. The UHI effect is generally understood as the phenomenon of urban areas being significantly warmer than surrounding rural areas because of human activity and land use patterns in the built environment. Several factors contribute to the effect, with the primary cause being changes in land surfaces (EPA 2008). The albedo of a surface is the measure of the surface's ability to reflect or absorb solar radiation, with darker surfaces having a lower albedo and absorbing more solar radiation. As urban areas develop over time, resulting in the development of more land surfaces with low albedos (e.g., asphalt pavement, dark building surfaces), more solar radiation is absorbed in these materials causing increased ambient temperatures and warmer nighttime temperatures. Another factor contributing to the UHI effect is the loss of evapotranspiration in urban areas. Evapotranspiration, the movement of water to the air from sources such as the soil, plants, and bodies of water, reduces ambient air temperatures (EPA 2008). As cities grow and often reduce the extent of available vegetation that contributes to evapotranspiration, UHI effects are exacerbated. Additionally, waste heat from human activities involving machinery (e.g., vehicle traffic, using air conditioning, industrial activity) can also contribute to the UHI effect, with excess heat absorbed by surrounding surfaces (Sailor 2011; Zhu et al. 2017).

Sensitive Land Uses

Land use patterns and the design of the built environment in urban areas play a large role in an area's exposure to the UHI effect (Stone and Rodgers 2001; Solecki et al. 2005). Urban land uses with large, paved areas, low albedo, and less vegetation (e.g., commercial, industrial uses) tend to be subject to the UHI effect and have higher nearby ambient temperatures. Conversely, land uses with smaller percentages of paved surfaces and abundant vegetation (e.g., parks) tend to have lower average temperatures compared to other portions of urban areas. A study looking at the relationship between land use patterns and the UHI effect in Toronto, Canada found a statistically significant difference between average maximum temperatures for commercial and resource/industrial land uses and other surrounding land uses. The study also found the average low temperatures for parks, recreational land, and water bodies to be lower than those for surrounding land uses, likely because of increased evapotranspiration (Rinner and Hussain 2011). Additionally, areas that have higher concentrations of commercial and industrial land uses clustered together can have increased ambient and surface temperatures, with temperatures increasing relative to the size of these areas (Rinner and Hussain 2011). Increased temperatures in areas with concentrations of commercial and industrial land uses can also result in secondary impacts, including increased cooling demand for buildings, pavement deterioration, decreased air quality, and reduced stormwater quality from above-average-temperature runoff entering natural waterways and nearby ecosystems (Rinner and Hussain 2011).

The California Environmental Protection Agency has developed a UHI index (UHII) to assess the severity of the UHI effect in various urban areas throughout the state. The scores are based on the temperature difference over time between urban census tracts and nearby upwind rural reference points to demonstrate the relative difference in temperature caused by the urban environment (CalEPA 2019). Figure 5 shows the UHII effect for the County by census tract.



Source: CalEPA 2019.

Figure 5 Urban Heat Island Index for Sacramento County

As shown in Figure 5, compared to other urban areas in County, census tracts in the City being affected by the UHI effect but not as severely as other areas in the County. As discussed above, a number of factors contribute to the UHI effect. Factors that could be contributing to the City's relatively low UHII score include the presence of rural land uses surrounding the City, particularly to the south and east of the City's more urban areas. As the City continues to grow, developing medium and high-density transit-oriented land use patterns will be an important part of helping the City achieve its greenhouse gas emissions reduction targets included in the City's CAP. However, as this growth occurs, it is also important to consider how new development may contribute to the UHI effect and include strategies to mitigate the UHI effect from new development in the City.

Transportation System Heat Sensitivities

Transportation systems are designed and constructed to withstand certain variabilities in weather and temperature based on observations of historical weather trends for specific climate regions (Li et al. 2011). The performance of transportation assets may begin to decline when the severity of extreme heat periods exceeds historical ranges, for example, rail buckling at temperatures above 111°F. The characteristics of extreme heat events will affect different transportation assets differently. Provided below is a summary of the quantitative and qualitative thresholds used to assess the impacts of climate change on the City's transportation system. These thresholds were applied to the specific geography of the City using Cal-Adapt data and are presented in Table 7.

Pavement Deterioration

The effect of temperature on the performance and integrity of pavement depends on a variety of factors, including material type (asphalt versus concrete), the albedo of the material, details specific to the material mixing and placement, and soils and materials in the subbase of the roadway (Harvey et al. 2000). The performance of pavement also is dependent on the traffic volumes and types of vehicles using the roadway (Harvey et al. 2000). Based on the City's Standard Construction Specifications, based on Sacramento County Standards (Sacramento County 2016), roadways in the City use a binder within the asphalt mix with a Performance Grade of 64-16 means that roadways using this binder can withstand 7 consecutive days of pavement temperatures up to 64°C (147°F), after which point the heat can result in rutting along high-volume roadways and cause considerable safety issues. Based on guidance in the FHWA's *Vulnerability Assessment and Adaptation Framework* (FHWA 2017), this pavement temperature threshold can be translated into an ambient air temperature of 111°F. The UHI effect can increase ambient temperatures between 1.8°F and 5.4°F in urban areas compared to surrounding rural areas. Because the Cal-Adapt tool does not account for the added effects of the UHI effect in its projections, this analysis is conservative in setting a threshold for pavement impacts. As a result, the threshold used for widespread impacts on pavement in the City is a 7-day consecutive heat wave with a maximum daily temperature of 108°F. The analysis in roadways using this threshold is included below in Section 2.4.2.

Rail Buckling

During periods of extreme heat, rail lines can expand and result in "buckling" in which tracks come out of alignment, resulting in serious safety issue. However, the risk of buckling is managed by designing the rail neutral temperature at 95-110°F (35-45°C), with tracks designed and fit into infrastructure that assumes operations at those temperatures could occur (OFCM 2002, Transportation Research Board and National Research Council 2008). For this analysis, the threshold for increased risk from rail buckling is days in which the maximum daily temperature is 111°F or above.

Public Transportation Operations and Bridges

Research has found that when daily maximum temperatures reach 100°F, air conditioning units in buses are placed under increased stress and risk of failure (Cambridge Systematics 2015). For this analysis, the threshold for public transportation is days per year with maximum temperatures above 100°F.

Additionally, research indicates that bridges are at increased risk from thermal expansion during periods above 100°F. While bridges are designed to expand during periods of extreme heat, projected increases in extreme heat events could go beyond design criteria, resulting in cracking and crushing of the roadway deck, as well as increased maintenance costs (Transportation Research Board and National Research Council 2008). The number of days above 100°F is also used as a threshold to determine impacts on bridges (Zimmerman 1996).

Heat Sensitive Populations

Certain vulnerable populations in urban areas are particularly vulnerable to extreme heat and related hazards. Vulnerable populations include persons over the age of 65, infants and children, individuals with chronic health conditions (e.g., cardiovascular disease, asthma), low-income populations, athletes, and outdoor workers (CDC 2019). Increased temperatures have been reported to cause heat stroke, heat exhaustion, heat syncope, and heat cramps, with certain vulnerable populations at increased probability of experiencing these effects (Kovats and Hajat 2008). Extreme heat can also worsen air quality, quickening the production of ozone in areas with increased concentrations of ozone precursors (i.e., oxides of nitrogen [NO_X] and reactive organic gases [ROG]) (Knowlton et al. 2004). This is of particular concern to the City because the Sacramento Valley Air Basin has high concentrations of ROG and NO_X emissions and is currently in nonattainment status for California ambient air quality standards for ozone (SMAQMD 2017).

Alongside populations with health sensitivities, residents with specific sociodemographic characteristics are at increased sensitivity to extreme heat events (CDC 2019). Research has found that low-income residents spend a larger proportion of their income on utilities, including electricity use for cooling, with these residents being disproportionally affected during extreme heat events (Voelkel et al. 2018). Additionally, research has found that low-income neighborhoods can often have less tree coverage and park space, further contributing to the disproportionate impact on low-income residents (Zhu and Zhang 2008). Unhoused individuals are also at increased risk from extreme heat events with, generally, less access to places to cool off and healthcare resources during these

events. Additionally, decreased access to transportation services can further increase exposure and health risks from extreme heat events for the unhoused community (Ramin and Svoboda 2009).

Unlike thresholds for transportation assets, heat-related thresholds for populations in an urban area vary widely and depend on a number of factors, including the sensitivity of specific populations to heat (e.g., elderly, children). For this analysis, the California Heat Assessment Tool (CHAT) was used to identify how Heat Health Events (HHE) would increase in the future. An HHE, for the purposes of the tool, is defined as any event that results in negative public health impacts, regardless of the absolute temperature. The tool includes unique HHE threshold for locations throughout the state, specific to the climate and the historical sensitivity of people in that area to past extreme heat events. For this analysis, the CHAT tool and the projected increase in HHEs in the City is used as the threshold for this sensitivity. The heat wave event threshold, defined as a 4-day consecutive period with daily maximum temperatures above 103.1°F, is also used to identify various impacts from heat wave events.

Buildings and Energy Use

Changes in annual average temperature and extreme heat events are likely to effect buildings primarily through changes in energy use as well as disproportionate impacts on individuals residing in units that do not have air conditioning. Cal-Adapt provides data on the shifts in Cooling Degree Days and Heating Degree Days, which are measurements used to assess the energy demand needed for cooling and heating buildings in different climate zones throughout California. A degree day does not equate to a single day of the year but rather compares the mean (the average of the high and low) outdoor temperatures recorded for a location to a standard temperature (i.e., 65°F). For example, if the average temperature for a day is 80°F, the day has 15 Cooling Degree Days (80 – 65 = 15). Degree days are used in the State's Title 24 Building Energy Efficiency Standards to help design the energy demand needed for heating and cooling in the various climate zones throughout the state. To illustrate how climate change is likely to affect energy demand for heating and cooling in the future, Table 7 includes the relative shift in Cooling Degree Days and Heating Degree Days in the City through 2099.

Table 7 Summary of Potential Heat Impacts by Impact Area through 2099

Impact Area	Impact Type	Threshold Criterion	Historic (1961–1990)	Near Term (2021–2050)	Midterm (2040–2070)	Medium Emissions Long Term (2070–2099)	High Emissions Long Term (2070–2099)	Threshold Source
Built Environment impacts	Roadways and pavement	7 consecutive days above 108°F	0	0	0.1	0.1	0.5	DOT 2014
	Rail buckling	Days per year with maximum temperature of 111°F	0	2	3	3	9	OFCM 2002
	Bridges and bus operations	Days above 100°F	15	35	44	24	67	Zimmerman 1996, Cambridge Systematics 2015
	Building Energy Use	Percent increase in Cooling Degree Days	n/a	49%	48%	46%	74%	CEC 2021b
		Percent increase in Heating Degree Days	n/a	-25%	-44%	-50%	-81%	CEC 2021b
Vulnerable Population impacts	Heat wave events	4-day period above 103.6°F	0.2	1.4	2.5	2.6	5.4	CEC 2021b
	Heat wave duration	Consecutive days above 103.6°F	2.5	6.3	6.9	8.5	14.2	CEC 2021b
	Heat Health Events (HHE)	Range of potential HHEs per year	n/a	2.9	3.9	4.2	4.8	CEC 2018a

Note: NA = not available.
Source: See sources in "Threshold Source" column of table.

Near Term (2021–2050)

As shown in Table 7, during the near-term period, extended periods (7 consecutive days) of temperatures reaching above 108° would be unlikely; therefore, there would not be widespread impacts from pavement deterioration in the City. The City has experienced buckling of sidewalks due to extreme heat conditions, prompting repairs to avoid tripping hazards. As extreme heat continues to increase in severity and frequency in the future, this impact is likely to increase as well. Increased risk to rail from extreme heat days will increase slightly, with only 3 days over 111°F. However, there will be continued increases in risk from thermal expansion of bridges, with increases in days above 100°F from 15 historically to 44 during this period. An increase in the number of days above 100°F will also place increased stress on buses and their air conditioning systems, as well as result in potential declines in bus ridership because of the discomfort. During this period, the number of Cooling Degree Days will increase approximately 49 percent increase over historic levels, placing more demand on the electricity grid during heat wave events and increase electricity bills for residents. Conversely, the number of Heating Degree Days will decrease by approximately 25 percent and reduce energy demand for heating, resulting in cost savings for residents and businesses cooler months during those months. City staff have noted that extreme heat events have already begun to affect the homeless population in the City, prompting the need for cooling center to house the City's homeless population and other vulnerable populations. As extreme heat events continue to increase in frequency and severity, these impacts are likely to become more pronounced and demand for cooling centers as well as emergency services will increase.

During the near-term period, the City will also experience approximately 2.9 HHEs per year, with increased risk to populations particularly vulnerable to extreme heat, as discussed above. The frequency of extreme heat events will increase to 1.4 on average per year with the maximum duration of events increasing to 6.3 days during this period. These events will increase the risk of public health impacts on vulnerable populations and could result in increased burden on low-income residents because of the increased energy demand for cooling (Calkins et al. 2016).

Midterm (2040–2070)

During the midterm period, there would likely not be any extended periods (7 consecutive days) above 108°F during this period; therefore, there would not be widespread impacts from pavement deterioration in the City. Increased risk to rail from extreme heat days will be relatively minor, with only 2 days over 111°F. However, there will be noticeable increases in risk from thermal expansion of bridges, with increases in days above 100°F from 15 historically to 35 during this period. An increase in the number of days above 100°F will also place increased stress on buses and their air conditioning systems, as well as result in potential declines in bus ridership because of the discomfort. During this period, the number of Cooling Degree Days will increase approximately 49 percent increase over historic levels, placing more demand on the electricity grid during heat wave events and increase electricity bills for residents. Conversely, the number of Heating Degree Days will decrease by approximately 44 percent over historic levels and reduce energy demand for heating, resulting in cost savings for residents and businesses cooler months during those months.

During the near-term period, the City will also experience approximately 3.9 HHEs per year, with increased risk to populations particularly vulnerable to extreme heat. The frequency of extreme heat events will continue to increase to 2.5 on average per year with the maximum duration of events increasing to 6.9 days. These events will increase the risk of public health impacts on vulnerable populations and continue to disproportionately burden low-income residents because of the increased energy demand for cooling (Calkins et al. 2016).

Long Term (2070–2099)

During the long-term period, increases in the duration and frequency of heat wave events will place increased stress on transportation assets and could result in subsequent impacts on community functions. By this period, under the High Emissions scenario, there would be an average of 0.5 events per year with extended periods (7 consecutive days) above 108°F. There would be only 0.1 events per year under the Low Emissions scenario for this period. As discussed in Section 2.4.1, these events will result in much larger impacts on the performance of pavements in the City. Extensive rutting could occur, particularly on high-volume roadways, including Folsom Boulevard, Sunrise Boulevard, and International Drive, as well as on Caltrans facilities (i.e., SR-50).

During this period, there would be significant risk to rail infrastructure from extreme heat days, with approximately 9 days over 111°F per year under the High Emissions scenario, likely affecting Regional Transit light rail service when these events do occur. Risk of impacts on bridges from thermal expansion will also increase considerably, with the number of days above 100°F per year increasing from 12 historically to 24 under the Low Emissions scenario and 67 days under the High Emissions scenario. During the long-term period, the City will experience between 4.2 and 4.8 HHEs depending on future emissions, with increased risk to vulnerable populations. The increased frequency of HHEs will likely place increased demand on emergency services and emergency care facilities and could result in economic consequences from impacts on public health and work productivity (Paterson et al. 2014). The frequency and duration of heat wave events will increase considerably during this period, with the maximum duration of events increasing to 14.2 days under the high emissions scenario. These events will increase public health impacts on vulnerable populations, with increased levels of risk for elderly and youth populations, as well as individuals with chronic health conditions (Voelkel et al. 2018). By the end of the century, the number of Cooling Degree days will increase approximately 74 precent, under the high emissions scenario, resulting in more than 3 months of the year requiring increased energy demand for cooling. By this period, the number of Heating Degree Days will decrease by approximately 81 percent under the High Emissions scenario by 2099. Increases in energy demand for cooling during this period will also have larger impacts on the electricity grid, with increased stress on and risks to electricity generation facilities and transmission lines (DOE 2016).

Potential Impact Score

Based on this analysis, the potential impact score for Temperature and Extreme Heat is **High**.

2.3 PRECIPITATION AND FLOODING ANALYSIS

Existing and Future Flooding Conditions

Scientists, engineers, and planners all use a specific system to measure and plan for certain sizes of storm events and flood impacts associated with these events. These events are measured by the probability that they are likely to occur in a given year. The phrase "100-year storm," for example, refers to a storm event with a 1-in-100 or one percent chance of occurring in any given year. The size and other aspects of these storms are identified to characterize the nature of the events based on historic data. The metrics are then used to plan and design stormwater management systems that can cope with storm events of these sizes. The Federal Emergency Management Agency (FEMA) uses certain larger storm events (i.e., 100-, 500-year storms) to identify flood hazard areas in the United States. FEMA administers flood insurance based on location and extent of impacts from these storm events, which influences land use patterns and development in cities. The following metrics are used in this analysis to discuss storm events and are included in projections from the Cal-Adapt tool:

- **Intensity**—The amount of rainfall that occurs over a certain period (e.g., 1 hour, 24 hours, 5 days) during storm events of different sizes (e.g., 100-year storm event, 2-year storm event)
- **Duration—**The longest stretch of consecutive days during a water year (October through September) with rainfall above a certain threshold
- **Count—**The number of days during a water year (October through September) with rainfall over a certain period (e.g., 1 hour, 24 hours, 5 days) above a certain threshold
- **Timing**—The timing during the year in which rainfall events exceeding a certain threshold occur

The City's *Local Hazard Mitigation Plan* (LHMP), which was developed as an annex to *the Sacramento County Local Hazard Mitigation Plan* which is currently being updated with the public draft of the document available, includes summary of the existing natural and manmade hazards affecting the City have been analyzed to assess current risks levels for each hazard (Sacramento County 2021). The LHMP provides details on the planning process, risk assessment, and mitigation strategies for the City to address specific hazards including large flooding events and flood related hazards.

Historically, flooding from large storm events is a significant problem in the County and the City. Historically, the City has been at risk to flooding primarily during the winter and spring months when river systems in the County swell with heavy rainfall and snowmelt runoff. The City also experiences flooding challenges in the Morrison Creek watershed as well as obstructions to peak storm flow management with the Folsom South Canal which runs north-south through the City.

Storm floodwaters are typically managed by the City's stormwater management system, which is able to collect and divert stormwater runoff from smaller storm events. However, extended heavy rains result in floodwaters that exceed normal high-water boundaries and cause damage. Major surface waters in the vicinity of the City include the American River, Folsom Reservoir, and Lake Natomas to the north. Other surface waters within the City include the Folsom South Canal, Cordova Creek, Deer Creek, and the Morrison Creek Stream Group (Morrison, Laguna, Elder, Gerber, Unionhouse, Florin, Buffalo, and Frye Creek, as well as Rebel Hill Ditch) which generally flow in a southwesterly direction southeast of the City. The topography within the City includes gently rolling terrain, such as that found in the eastern Great Central Valley interrupted by numerous seasonal creeks and streams. These creeks and streams are largely ephemeral and intermittent, which is typical of areas that experience dry summers and cool, wet winters, as in this part of the Central Valley.

The County and City have a large number of large-scale flooding events resulting in Federal and State disaster declarations. Table 8 includes a list of state and federal disaster declarations for the County since 1950.

Table 8 Changes in Average Annual Precipitation and 5-Year Storm Event in Sacramento County

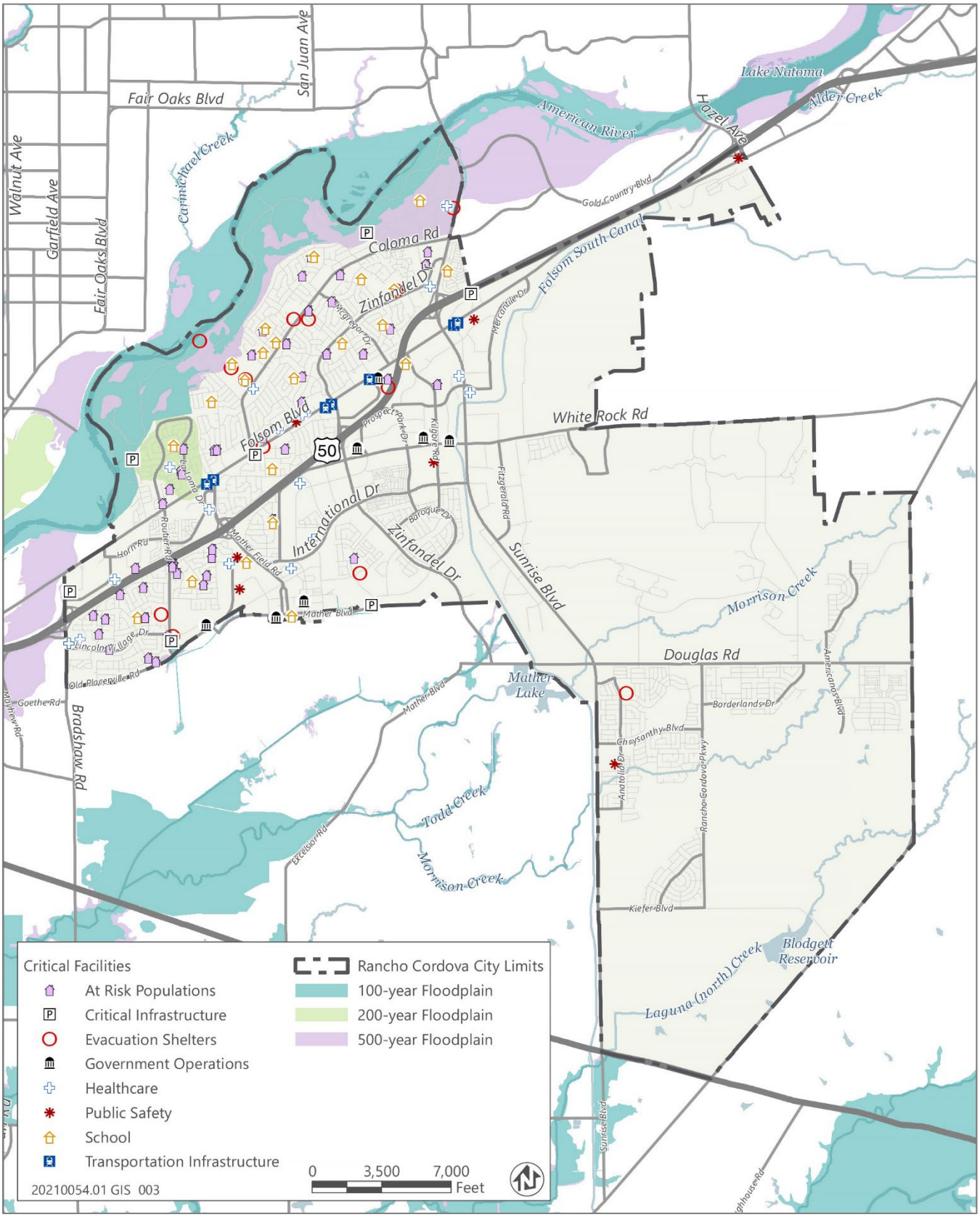
Type of Hazard Event	Federal Declarations		State Declarations	
	Count	Years	Count	Years
Flood (including heavy rains and storms)	19	1950, 1955, 1958 (twice), 1963, 1969, 1982 (twice), 1983, 1986, 1995 (twice), 1996, 1997, 1998, 2008, 2017 (three times)	14	1955, 1958, 1964, 1969, 1983, 1986, 1995 (twice), 1997, 1998, 2006, 2017 (three times)

Source: Sacramento County 2021.

As shown in Figure 6, small portions of the City are located within the FEMA floodplains for the 100- and 500-year storm events. Figure 6 also includes areas within the 200-year flood zone which were mapped as part of the City's GP updated process and used to comply with the requirements of Senate Bill (SB) 5, which requires cities in the Sacramento-San Joaquin Valley area to assess risk-levels and provide increased flood protection for properties in the 200-year floodplain. As shown in Figure 6, the northern boundary of the City is located along the American River, with this area of the City at the highest risk from flooding.

Based on information in the City's LHMP, there are 58 properties located in the 100-year flood zone valued at a total of $21.6 million. As part SB 5, jurisdictions in the Sacramento-San Joaquin Valley are required to identify properties located in the the 100- and 200-year floodplains and implement development standards that prohibit new development in the 200-year floodplain unless the property achieves an Urban Level of Flood Protection (ULOP), defined in SB 5. To satisfy the requirements of ULOP, the City has developed a 200-yr floodplain map based on the proposed Folsom Dam improvements by the US Army Corps of Engineers. These improvements include the Joint Federal Project to improve the dam spillway and the future dam raise to increase flood storage. In conjunction with the new 200-yr map, the City has made changes to its General Plan and zoning code that will guide development within the 200-yr ULOP.

As illustrated in Figure 6, the 500-year floodplain also impacts the northern portions of the City along the American River with118 residential parcels located within this zone. The City has one critical facility located in the 100-year flood zone, six critical facilities in the 200-year flood zone, and 5 critical facilities in the 500-year flood zone. While portions of the City are within the 100- and 500-year flood zones, there have been no historical insurance claims for flood losses in the City (Sacramento County 2021).



Source: Sacramento County 2021 and data provided by City of Rancho Cordova staff.

Figure 6 Flood Zones and Critical Facilities in the City of Rancho Cordova

As shown in Table 9, there are several areas in the City with various land uses in the 100- and 500-year flood zone. As discussed above, the presence of the Laguna West Levee System near the Laguna West neighborhood is protecting 2,073 parcels from the 100-year flood event. Parcels located in the 100-year flood zone are located in flood zone areas surrounding Laguna Creek and Deer Creek. Alongside an analysis of land uses at risk of flooding, the City's LHMP also analyzed the number of essential service facilities, and at-risk populations that are located within the 100- and 500-year flood zones. Table 9 summarizes the number and type of critical facilities located within the 100- and 500-year flood zones.

Table 9 City of Rancho Cordova Properties by Land Use in FEMA Flood Zones

Land Use	100-Year Flood Zone	500-Year Flood Zone
Residential	19	1,118
Retail/Commercial	0	3
Office	0	2
Industrial	0	0
Care/Health	0	0
Church/Welfare	0	2
Recreational	1	0
Miscellaneous	35	11
Public/Utilities	0	2
Vacant	3	2
Total	**58**	**1,145**

Note: FEMA = Federal Emergency Management Agency.
Source: Sacramento County 2021.

Future Changes in Precipitation Patterns and Flooding

As discussed in the *Fourth Climate Change Assessment Sacramento Valley Report*, changes in precipitation patterns in northern California are anticipated to affect the Sacramento Valley region as well as adjacent regional watersheds which affect the Sacramento Valley (OPR et al. 2018). Projected shifts include increases in the intensity of large storms events, which could compromise the performance of the Sacramento Valley and Central Valley flood management systems (Pierce et al. 2018). Based on California's location next to the Pacific Ocean, the state is exposed to the atmospheric river phenomenon, a narrow corridor of concentrated moisture in the atmosphere. California is subject to precipitation from an atmospheric river that transports water vapor from as far south as Hawaii to the state. The presence of the atmospheric river contributes to the frequency of "wet years" in the state, when there is an above-average number of atmospheric river storms and above-average annual precipitation. While research indicates that the frequency of large storms events does increase in these wet years, the most severe flooding from atmospheric rivers may not be in wet years (Swain et al. 2018). The largest flooding impacts are caused by persistent storm sequences on sub-seasonal timescales (i.e., short time periods, typically 2 weeks to 3 months), which bring a significant fraction of annual average precipitation over a brief period. These are storms events similar to the Great Flood events of 1861–1862 which caused widespread damage throughout northern California (Swain et al. 2016). Based on current climate modeling, the frequency of these large storm sequences over short timeframes is projected to increase noticeably under the High Emissions scenario. It is estimated that a storm similar in magnitude to the Great Flood events is more likely than not to occur at least once between 2018 and 2060 (Swain et al. 2018). A storm of this size would likely compromise large portions of the flood control systems in the Sacramento and the Central Valleys (Swain et al. 2018).

Regional changes in precipitation over the century will subsequently result in local changes in both annual precipitation and changes in the characteristics of storm events in the City and the County more broadly. Table 10 includes the projected precipitation changes in the County through 2099. The precipitation changes included in Table 10 are illustrated in Figure 7.

Table 10 Sacramento County Precipitation Change (Historic to 2099)

Geographic Area	Historic (1961–1990)	Change in Annual Mean Precipitation (Inches)			
		Near Term (2021–2050)	Midterm (2040–2070)	Late-Century	
				Medium Emissions (2070–2099)	High Emissions (2070–2099)
Sacramento County	18.3	20.1	20.2	20.3	22.1
Percent Change from Historic Period	NA	10%	10%	11%	21%

Note: NA = not available.

Source: CEC 2021a.

As shown in Table 10, annual precipitation in the County is estimated to increase between 11 and 21 percent by 2099 under the medium and high emissions scenarios, respectively. As noted in the *Fourth Climate Change Assessment Sacramento Valley Report*, although annual precipitation is anticipated to increase in the region, California's climate oscillates between extremely dry and extremely wet periods with annual precipitation varying widely from year to year. Climate change is anticipated to exacerbate these seasonal extremes with dry periods becoming dryer and wet periods becoming wetter (OPR et al. 2018). As a result, the frequency and severity of large storm events are anticipated to increase as well. These oscillations between extremely dry and extremely wet periods, which have occurred historically in the state, are anticipated to become more severe with rapid shifts from dry to wet periods known as "whiplash events" (Swain et al. 2016). As Swain et al. note in their research, the recent 2012–2016 drought followed by the 2016–2017 flood events throughout the state serve as a good example of the type of whiplash events that will occur more frequently over the next century. These types of events are estimated to increase by approximately 25 percent in northern California, with increases in frequency occurring largely after 2050 (Swain et al. 2016).

Although annual precipitation is anticipated to increase in the City over the coming decades, the majority of the increase in precipitation is likely to occur during extreme precipitation events (Swain et al. 2018). As a result, it is important to understand how these shifts in extreme precipitation events will affect the City and regional watersheds which affect the stormwater management system and larger waterways within the City, though they begin outside the City boundaries. The Cal-Adapt Extreme Precipitation Event tool provides information on how the characteristics of extreme precipitation events will change over the century, including the ability to analyze changes at the watershed level.

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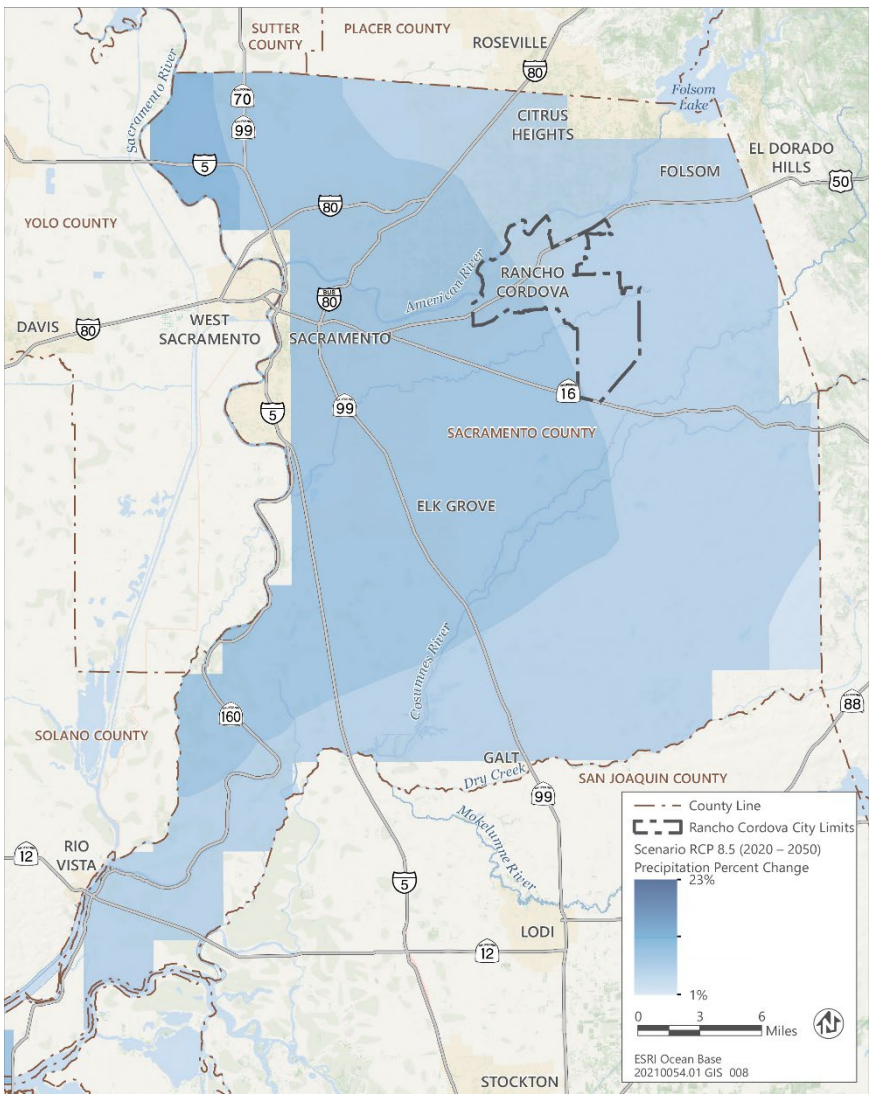
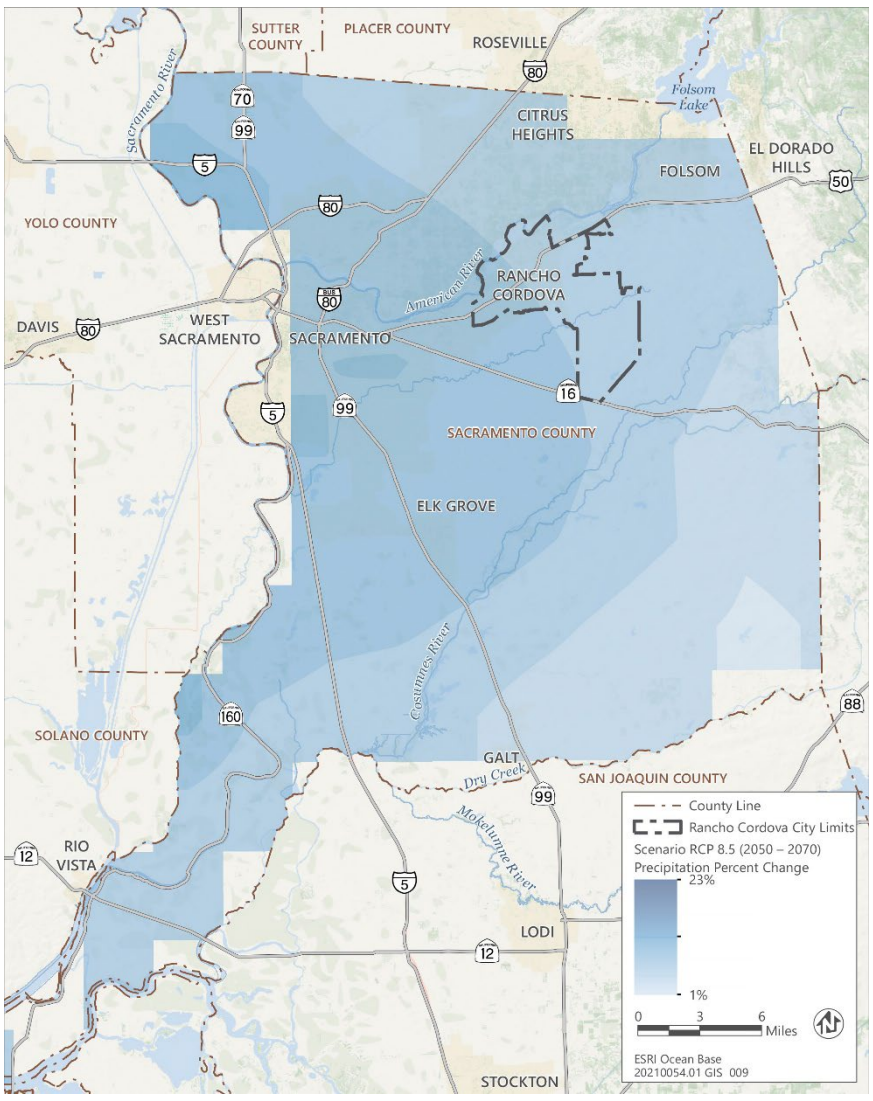
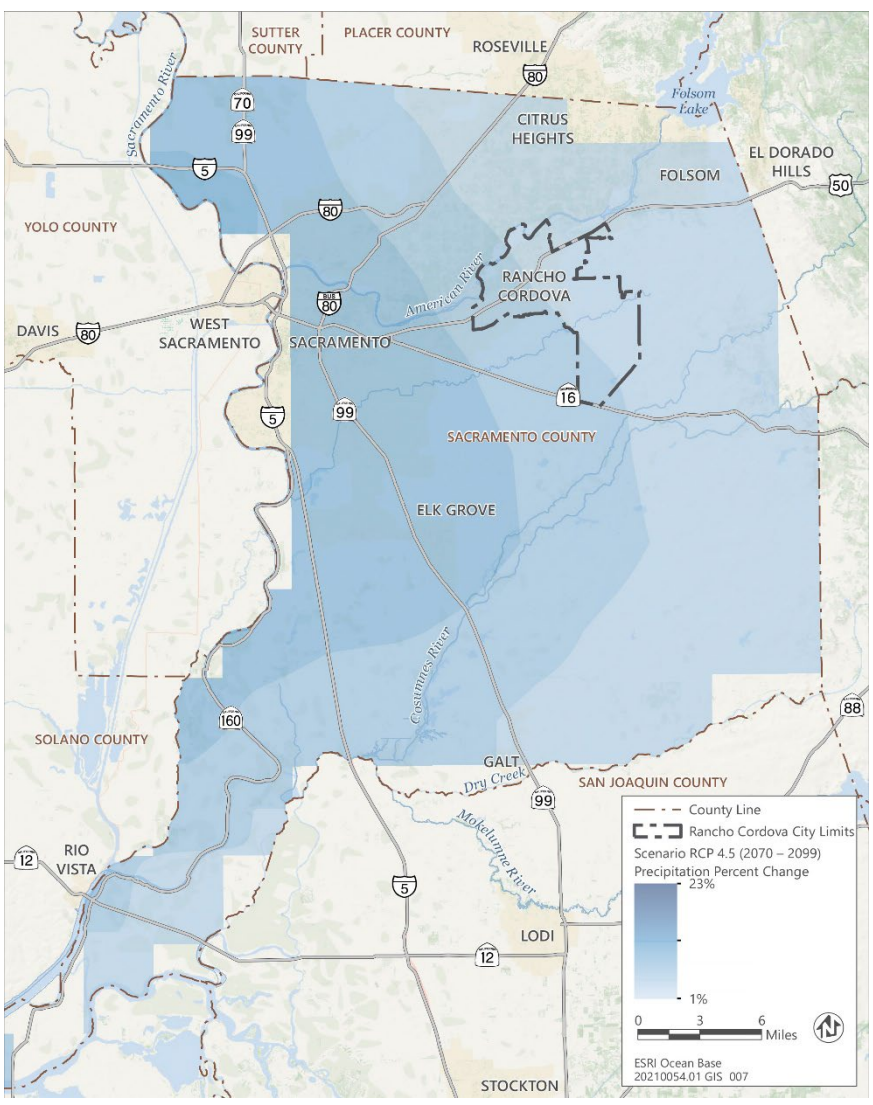
Near-Term (2021 – 2050)



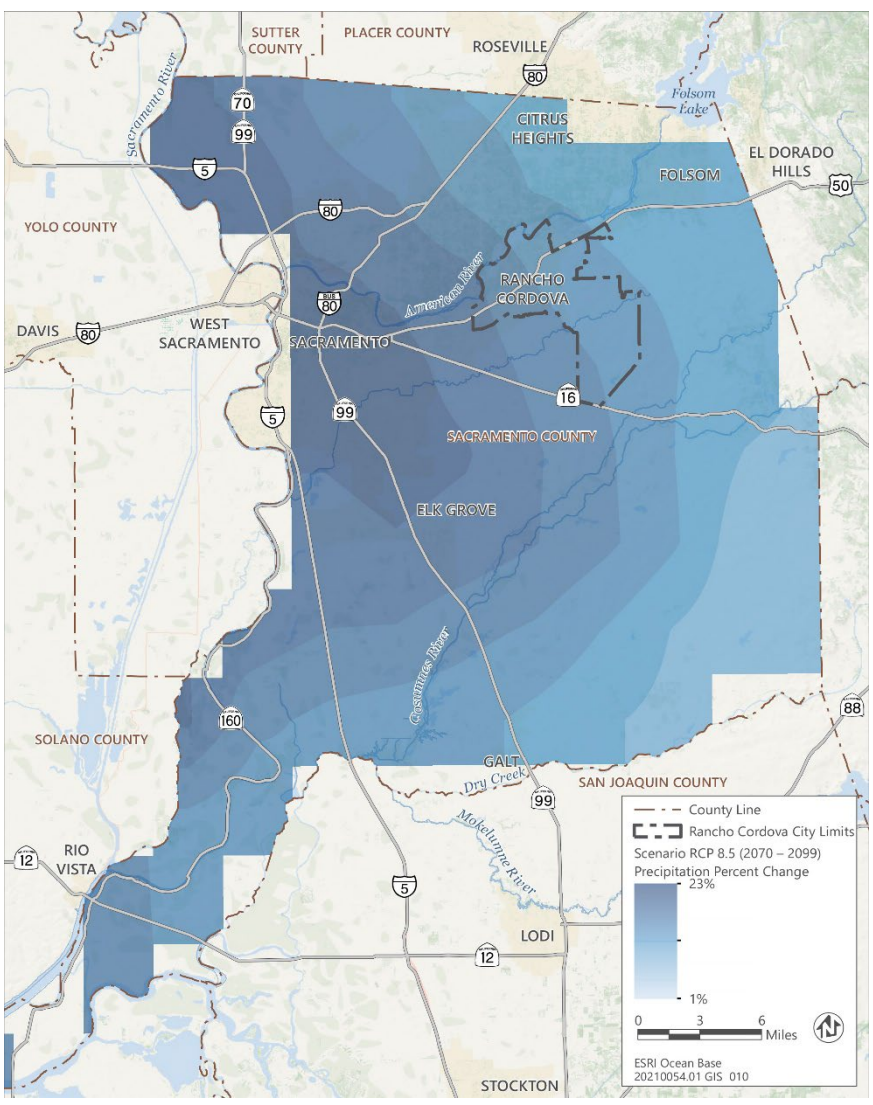
Midterm (2040 – 2070)



Medium Emissions - Long Term (2070 – 2099)



High Emissions - Long Term (2070 – 2099)



Source: Data downloaded from CEC and DWR in 2021.

Figure 7 Sacramento County Annual Average Precipitation through 2099

The characteristics of extreme precipitation events are what are most commonly used to model and design urban stormwater management systems to ensure the system can withstand the rainfall and stormwater runoff that occurs during these events. For the purpose of this analysis, the specific storm events chosen are consistent with three size storm events used to design the City's stormwater management system and are included in the *Sacramento County Drainage Manual*. These include the 2-, 10-, and 100-year storm events for rainfall over a 24-hour period. Table 11 summarize the changes in amount of rainfall projected to occur in American River watershed, the main watershed affecting the City for the 2-, 10-, and 100-year storm events through 2099 under the high emissions scenario.

Table 11 Changes in Rainfall During Extreme Precipitation Events

Watershed	Storm Event Size	Historic (1961–1990)	Change in 24-Hour Rainfall Period (Inches) for 100-Year Storm Event			
			Midterm (2035–2064)	Percent Change (Historic to 2064)	Long-term (2070–2099)	Percent Change (Historic to 2099)
American River Watershed	100	7.1	4.8	-32%	6.3	-11%
	10	3.5	2.9	-17%	3.5	0%
	2	2.1	2.0	4%	2.3	9%

Notes: This table shows estimated intensity (Return Level) of Extreme Precipitation events, which are exceeded on average once every 2, 10, and 100 years (Return Period). Extreme Precipitation events, defined here, are days during a water year (October through September) with 1-day rainfall totals above an extreme threshold set for each of the watersheds, which is based on the lowest annual maximum storm intensity in historic records.

Source: CEC 2021a.

As shown in Table 11, by midcentury, the American River watershed is projected to experience decreases in rainfall during the 100- and 10-year storm event and a slight increase in the 2-year storm event. By late century, the watershed will experience an 11 percent decrease in the intensity of the 100-year storm event, no change in the 10-year storm event, and a more nine percent increase in the 2-year storm events. Climate change is also projected to increase frequency and maximum duration of larger precipitation events. For the American River watershed, there is projected to be slight increase in number of larger precipitation events from five events historically by the late-century period. The maximum durations of these events will also increase from two days historically to 2.3 days by the late-century period.

Future Flood Impacts

Stormwater Drainage System

In current practice, the stormwater management systems in urban areas are modeled to manage large storm events based on characteristics of rainfall specific to the region from observed historical data. These characteristics in the intensity, duration, and frequency (IDF) of extreme precipitation events. These characteristics are described using IDF curves which are used to design various components of urban drainage systems including pipes, culverts, waterway channels, and detention ponds. Because climate change is anticipated to shift precipitation patterns during storm events, these changes could impact the performance of urban stormwater management systems (CEC 2018b). Increases or changes in the IDF curve can impact the integrity of stormwater infrastructure, particularly natural and engineered slopes such as levees (CEC 2018b). Based on current design standards, the City's drainage system has been designed based on the 2-, 10-, and 100-year storm events. Consistent with these standards, the primary sensitivity threshold for this precipitation and flooding impacts is the exceedance of the historic intensities of the 2-, 10-, and 100-year storm event for the 24-hour period. This threshold is developed from the understanding that the City's current stormwater management and flood protection system is designed based on historic observations for the size of flood events. If these historic storm intensities are exceeded, this would likely begin to disrupt, deteriorate, damage, or generally affect the performance of the City's stormwater management and flood protection systems (CEC 2018b). The analysis also considers the magnitude of the increase above the historic storm levels in the severity of the impacts that may occur.

Based on projections included in the Table 11 above, the City is not projected to experience larger increase in the size of these storm events and, therefore, not likely experience widespread flooding impacts from frequent but smaller storm events in the future. The small increases in the frequency and maximum duration of storm events are also not likely to have an impact on the City's stormwater management system.

Large Storm Events and Flood Protection

For this analysis the FEMA floodplain for the 100-year storm event is used as the sensitivity threshold for large storm events. Specifically, for future scenarios in which the intensity of the 100-year storm events is exceeded, parcels and roadways within these floodplains are seen to be at increased risk from large storm events. Based on information in Table 11, the City is not projected to experience increases in the intensity of the 100-year storm event and, therefore would likely not experience widespread flooding impacts from less frequent but larger storm events based on the Cal-Adapt data. However, as discussed above, California does experiment Atmospheric River events The presence of that contribute to the frequency of "wet years" in the state. While research indicates that the frequency of large storms events does increase in these wet years, the largest flooding impacts are caused by persistent storm sequences on sub-seasonal timescales (i.e., short time periods, typically 2 weeks to 3 months), which bring a significant fraction of annual average precipitation over a brief period (Swain et al. 2018). As noted in the *Fourth Climate Change Assessment Sacramento Valley Report*, climate change is projected to increase the intensity of "wet years" when they do occur and would likely have significant impacts on the County as well as the City.

Levee System Impacts

Increases in precipitation and particularly in the intensity and frequency of extreme precipitations due to climate change will have impacts on the integrity of levee systems (Jasim et al. 2017). Shifts in the IDF curve, particularly during multi-day events, can increase the risk of levee failure. A study which modeled the impacts of projected changes in IDF curves on the Elkhorn Levee in the County found that the probability of levee failure could increase between 3 and 12 percent during projected extreme precipitation events under the high emissions scenario when compared to the baseline scenario. Levee systems, particularly systems not maintained through the Federally protected levee system, are subject to other factors which can comprise their structural integrity including land subsidence and climatic conditions, which will be exacerbated by climate change (Jasim et al. 2017). The combination of land subsidence and specific climatic conditions including drought and severe flooding can further threaten the structural integrity of these aging levees (Robinson and Vahedifard 2016). There are currently two levees in the City which protect residential neighborhoods: Cordova Meadows Levee and Sunriver Levee. Based on the research referenced above, these levee systems will be at increased risk of failure due to increasingly intense storm events as well as increases in the frequency of these events.

Potential Impact Score

Based on this analysis, the potential impact score for Precipitation and Flooding is **High.**

2.4 DROUGHT AND WATER SUPPLY ANALYSIS

Existing and Future Drought Conditions

Long-term drought can have environmental, agricultural, health, economic, and social consequences. The County, along with larger areas of California, experiences periods of long-term drought that stress the ecosystem and water supplies; and subsequently, impact agriculture, public health, and the economy. The City relies on regional water supplies with the three primary water purveyors providing services within the City's planning area: Sacramento County Water Agency; Golden State Water Company; and California-American Water Company. The City's water supply is currently provided by a combination of ground and surface water resources. As discussed in the Natural Resources Chapter of the City's General Plan, future water supplies will be provided from a variety of sources, including: water from the Central Valley Project; appropriate water supplies; water transfer supplies; groundwater;

recycled water; surface water from the American River; SMUD transfer water; and Aerojet replacement water due contamination of the portion of the City's groundwater resources (City of Rancho Cordova 2006).

As noted in Appendix C – Water Supply Evaluation of the City's General Plan (City of Rancho Cordova 2006), it is likely that adequate water supplies would be available to meet the City's water demands associated with buildout of its current corporate limits. However, based on total known future supplies there would be a supply shortfall of approximately 51,089 acre feet per year to meet the City's total planning area demands. This shortfall would occur if development exceeded the total amount associated with buildout of the City's corporate boundaries. If water supplies are not available to meet buildout water demands, the City would either need to stop approving new growth within its jurisdiction, or collaborate with regional water purveyors to investigate potential future water supply options within the context of the regional water supply planning environment (City of Rancho Cordova 2006). Additionally, the Water Supply Evaluation conducted as part of the City's General Plan does not consider future changes in water supply due to climate change. This analysis does not include a comprehensive assessment of the City's water demand and available supply but rather focuses on how future changes in precipitation, temperature, and drought conditions in the County are likely to affect the City overall.

Future Changes in Precipitation Patterns and Flooding

The City and larger Sacramento region are expected to experience slight overall increases in average annual precipitation in the long-term. However, projections show the Sacramento region will experience increased variability and volatility in precipitation events, such as droughts. California has a highly variable climate that is susceptible to prolonged periods of drought, and recent research suggests that extended drought occurrence (a "mega-drought") could become more pervasive in future decades (CEC 2021c). As discussed above in Section 2.3, precipitation patterns in California oscillate between extremely dry and wet periods. Climate change is anticipated to exacerbate these seasonal extremes with dry periods becoming dryer and wet periods becoming wetter (OPR et al. 2018). With the increased severity of oscillation between wet and dry periods and precipitation occurring over more intense but shorter periods in the year, this will reduce opportunities for groundwater recharge which ideally occurs during prolonged wet periods allowing for soil infiltration, deeper percolation, and the resulting groundwater recharge. While a unique long-term drought scenario would likely affect the City's overall water supply management practices, there is the potential for there still to be above average wet years within a long-term drought, as shown in Figure 8. These above average wet years have the potential to replenish water supplies in the City's reservoirs and help mitigate the impacts of long-term drought.

A substantial portion of the water resources supplied to the Sacramento region originates as rainfall and runoff from snowpack in the northern Sierra Nevada mountains and the surrounding foothills. Cal-Adapt uses data to model an extended drought scenario for all of California from 2051 to 2070. For this analysis, the extended drought scenario for El Dorado County rather than just the boundaries of the City, with tributaries in El Dorado County (i.e., the north fork and south fork of the American River) providing key water resources (e.g., Folsom Lake) to the Sacramento region. Due to increases in climate variability and rising temperatures, the state has already seen signs of decreased snowmelt in Northern California. Annual snowpack in the Sierra Nevada is expected to decline by as much as 33 percent by mid-century and 66 percent by the end of the century, relative to historic baseline snowpack (OPR et al. 2018). Further, rising temperatures have caused snowpack to melt faster and earlier in the year. These changes in snowmelt timing and streamflow availability will challenge local and regional water supply availability (OPR et al. 2018). Inadequate rainfall and reduced snowpack will result in decreased runoff to the reservoirs that supply water to the City, which will lead to less available water and more frequent water shortages.

As shown in Figure 8, El Dorado County's observed historical (1961-1990) average annual precipitation accumulation (i.e., rainfall and snowpack runoff) is 43.6 inches. Under the anticipated drought scenario between 2051 and 2070, the County's average annual rainfall accumulation would decrease to 37 inches (CEC 2021c), resulting in an approximately 15 percent decrease in annual average rainfall over a 20-year period.

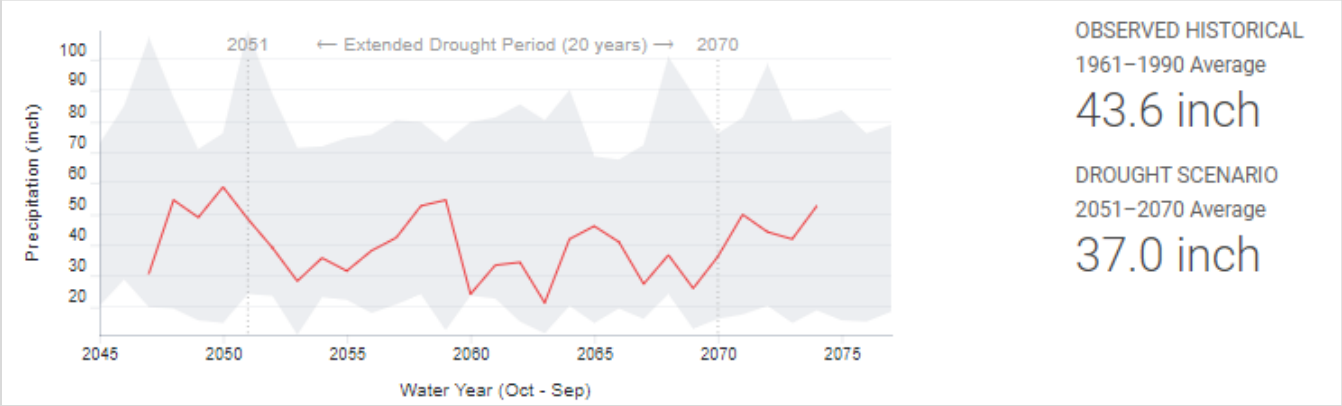


Figure 8 El Dorado County Long-Term Drought Scenario (2051-2070)
Source: CEC 2021c.

Drought Impacts

In the event of a severe and sustained drought lasting multiple years, water supplies provided to the City could be severely affected and result in the need for increased water conservation efforts to be implemented by jurisdictions in the Sacramento region. City residents may be encouraged to reduce household water demand, which may limit certain activities such as landscape irrigation. Each water purveyor that provides water resources to the City has an Urban Water Management Plan (UWMP), which includes a Drought Contingency Plan with specific actions to reduce overall water use by customers. The California Public Utilities Commission sets the rates and service terms for water utilities every three years after an exhaustive review, as required by state law. As a result, a long-term drought scenario would likely not result in rapid or unforeseen increases water costs for residents and businesses.

Droughts create cascading effects on community functions that may worsen in the future. The associated risks include adverse impacts on timber harvesting, reduction in native habitat and overall ecological function, increased forest fuels for wildfire, and economic consequences associated with decreases in tourism and recreation. More intense future droughts affecting the region could result in decreasing recreation opportunities on and surrounding Folsom Lake. Decreased recreation could have a direct impact on City business revenue from pass through visitors. Increased episodes of drought and increased water demand could result in water shortages for the region, endangering residents and ecological systems (e.g., flood control or sensitive habitat, recreational areas). Drought, as slow-moving disaster, can affect mental health if occurring over many years (Vins et al. 2015). While increasingly frequent and prolonged droughts directly affect residents, the built environment will not experience substantial direct impacts associated with this climate-related hazard.

A lack of soil moisture during long-term droughts can increase dust particle concentration, which can include harmful fungal spores and viruses, including Valley Fever (coccidioidomycosis) (OPR et al. 2018). The California Department of Public Health has highlighted the Sacramento Valley as a high-risk area for valley fever (OPR et a. 2018). Valley fever is found in disturbed, dry soil particles that must be inhaled. Symptoms of Valley Fever include chest pain, exhaustion, fever, coughing, joint and muscle pain, and difficulty breathing. Certain populations including pregnant women, the elderly, African, and Filipino Americans are particularly vulnerable to the severe cases of the disease (Brown et al. 2013).

Potential Impact Score

Based on this analysis, the potential impact score for Drought and Water Supply is **Medium.**

2.5 WILDFIRE ANALYSIS

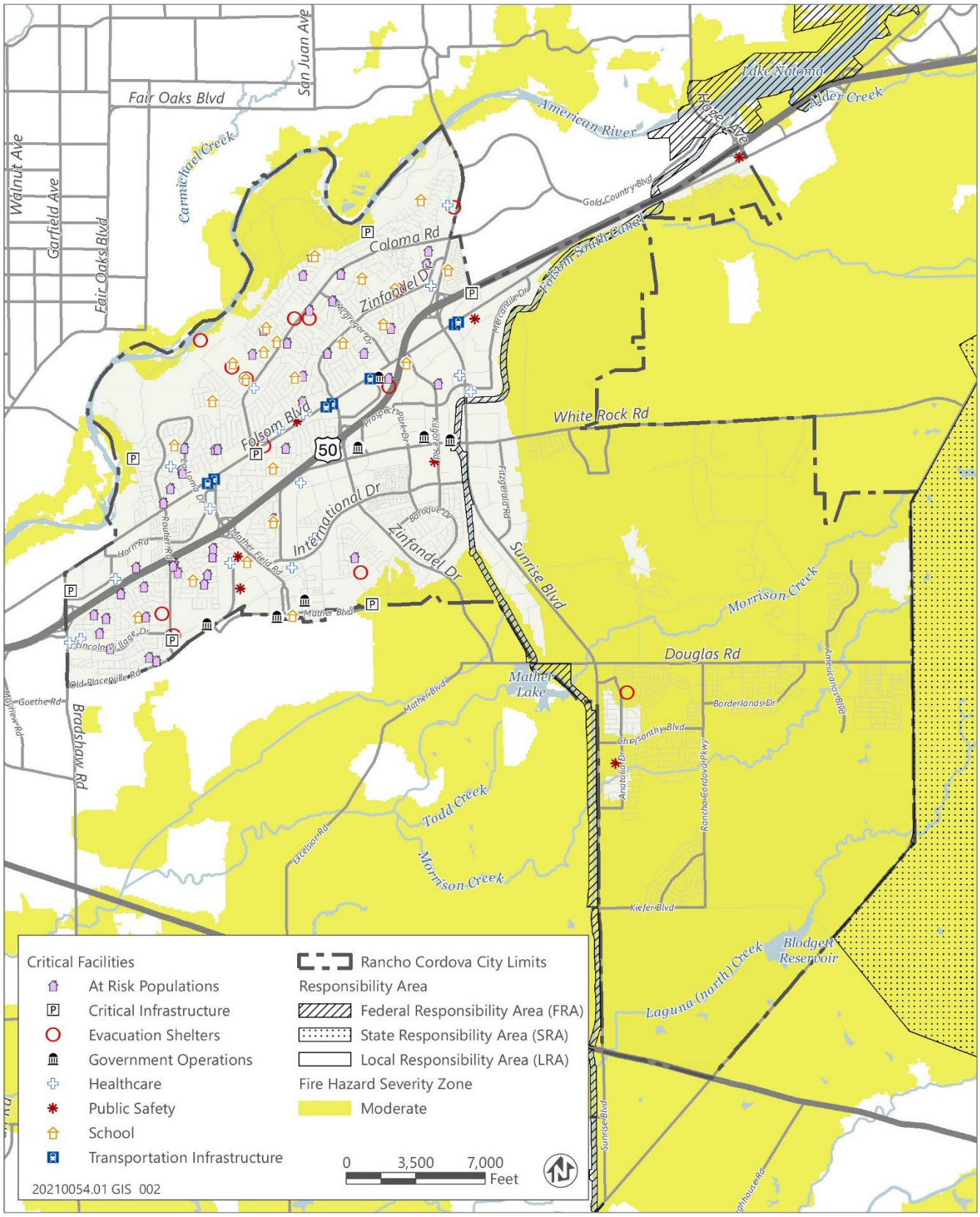
Existing and Future Wildfire Conditions

Wildfire behavior is dependent on several factors that, when identified and assessed, can help determine future wildfire characteristics. The three factors listed below contribute significantly to wildfire behavior and can be used to identify wildfire hazard areas:

- Topography: An area's terrain and land slopes affect its susceptibility to wildfire spread. Both fire intensity and rate of spread increase as slope increases because heat from a fire tends to rise through convection. The arrangement of vegetation throughout a hillside can also contribute to increased fire activity on slopes.
- Fuel: Fuel is the material that feeds a fire and is a key factor in wildfire behavior. Fuel is generally classified by type and by volume. Fuel sources are diverse and can include dead tree leaves, twigs, and branches of dead, standing trees; live trees; brush; and cured grasses. Buildings and other structures, such as homes and other associated combustibles, are also considered a fuel source.
- Weather: Components such as temperature, relative humidity, wind, and occurrence of lightning affect the potential for wildfire. High temperatures and low relative humidity dry out fuels that feed wildfires, creating a situation where fuel will ignite more readily and burn more intensely. Thus, during periods of drought, the threat of wildfire increases. Wind is one of the most significant weather factors in the spread of wildfires. The greater a wind, the faster a fire will spread and the more intense it will be.

The California Department of Forestry and Fire Protection (CAL FIRE) maps areas of significant fire hazards based on fuels, terrain, weather, and other relevant factors. These zones, referred to as Fire Hazard Severity Zones (FHSZ), are represented as Very High, High, or Moderate. The classification of a zone as a Moderate, High, or Very High FHSZ is based on a combination of how a fire would behave and the probability that flames and embers would threaten buildings. Wildfire risk is also determined by several factors, such as wind speeds, drought conditions, available wildfire fuel (i.e., dry vegetation), past wildfire suppression activity, and expanding wildland-urban interface (WUI) (i.e., places in and around forests, grasslands, shrub lands, and other natural areas) (Westerling 2018). Impacts from grass and brushfires in the City could result in evacuations of portions of the City as well as loss of property and impacts to critical facilities.

Based on data included in the City's LHMP Annex shown in Figure 9, large portions of the eastern and southern portions of the City are located in areas designated as Moderate FHSZ. Given the City's location and urban setting, there is relatively low risk of impacts from wildfires relative to areas northeast of the City in El Dorado and Amador County; however, the City is at increased threat of grass and brushfires. Although the majority of the City's developed areas are at lower fire risk, the City does include a few key areas with increase fires risk in undeveloped recreation areas along the American River. As a recreation area, there are limited roadways within these areas, making fire equipment access difficult. While threatened by fire risk along the American River, residents are also at risk from health impacts from poor air quality associated with wildfire smoke. Poor air quality can be generated in the City from wildfires occurring throughout northern California as has been experienced in recent years.



Source: Sacramento County 2021 and data provided by City staff.

Figure 9 Fire Hazard Severity Zones and Critical Facilities in the City of Rancho Cordova

Future Wildfire Risk

Increased Wildfire Risk in the Sacramento Valley

Climate change effects, including increased temperatures and changes to precipitation patterns, will exacerbate many of the factors that contribute to wildfire risk. Increased variability in precipitation may lead to wetter winters and increased vegetative growth in the spring, and longer and hotter summer periods will lead to the drying of vegetative growth and ultimately result in a greater amount of fuel for fires. This has already been seen across the state in recent years, with the area burned by wildfires increasing in parallel with rising air temperatures (OEHHA 2018). These factors, combined with intense wind conditions, cause fires to spread rapidly and irregularly, making it difficult to predict fires' paths and effectively deploy fire suppression forces.

Relative humidity is also an important fire-related weather factor; as humidity levels drop, the dry air causes vegetation moisture levels to decrease, which consequently increases the likelihood that plant material will ignite and burn. With an increase in hotter and drier landscapes, humidity levels may continue to drop and result in higher fuel levels, increasing the risk of wildfire (Schwartz et al., 2015).

Cal-Adapt provides projections for future annual mean hectares burned within the Sacramento Valley region, as defined in the California Fourth Assessment Report, when wildfires do occur. Because the City is not directly threatened by large-scale wildfires but is likely to be impacted by regional effects such as wildfire smoke, this analysis focuses on the Sacramento Valley region. As shown in Table 12, the total area burned annually by wildfire within the Sacramento Valley region is expected increase from the historic (1961-1990) annual average of 20,956 hectares to 23,942 hectares in the near-term and increase further in the midterm to 28,759 hectares. In the long-term, average annual area burned in the region is projected to increase to 31,670 hectares and to 41,784 hectares under the low and high emissions scenarios, respectively (CEC 2021e).

Table 12 Changes in Annual Average Area Burned in the Sacramento Valley Region

Average Annual Area Burned	Historic Modeled (1961-1990)	Near-Term (2021-2050)	Midterm (2035-2064)	Long-Term (2070-2099)	
				Low Emissions	High Emissions
Average Annual Area Burned (hectares)	20,956	23,942	28,759	31,670	41,784

Notes: Observed historical average annual area burned data was not available from Cal-Adapt; the modeled historical average annual area burned data under the low emissions scenario was available and used as proxy data.

Source: CEC 2021e.

Wildfire Impact Analysis

Increased temperatures and changes in precipitation patterns associated with climate change will lead to reduced moisture content in vegetation and soils during dry years. These conditions are expected to increase the amount of area burned by wildfires that will occur predominantly outside of the City boundaries but may have secondary impacts on the City from wildfire smoke, disruptions to transportation behavior, or the increased prevalence of Public Safety Power Shutoffs (PSPS).

Regional wildfires threaten energy generation and transmission infrastructure and have the capacity to damage facilities, create maintenance costs, and reduce transmission line efficiency (CAL FIRE 2020). Grid-supplied as well as locally generated electricity, which is the primary source of power for residences in the City, is provided by the Sacramento Municipal Utilities District (SMUD). Regional communications infrastructure can also be affected by wildfires, which is often located in remote locations, such as mountaintops, resulting in significant threat from wildfire. Regional wildfires may also generate impacts on transportation behavior in the City during emergency evacuation events. This could include potential route diversion and increases in traffic congestion due to road closures from wildfire impacts or post-wildfire runoff or landslide affected roadways. While fire causes relatively insignificant direct impact on roads and highways, cracking and degradation of pavement is not uncommon.

Although the City is not at a high risk from the direct impacts of wildfires, the City's location within the Sacramento Valley makes it susceptible to impacts of smoke from wildfires in the Sierra Nevada mountains and the coastal mountain ranges of northern California. Community public health factors that can increase the impacts of wildfire smoke include the prevalence of asthma in children and adults; chronic obstructive pulmonary disease; hypertension; diabetes; obesity; and percent of population 65 years of age and older. Additionally, socioeconomic characteristics such as poverty rates, educational achievement, and unemployment rates have all been linked to the increased prevalence of underlying health conditions including depression, obesity, hypertension, and diabetes, making populations in the City with these characteristics more vulnerable to wildfire smoke impacts (Kivimäki et al. 2020). Exposure to wildfire smoke, particularly exposure by vulnerable populations, can result in worsening of respiratory symptoms, increased rates of cardiorespiratory emergency visits, hospitalizations, and even death (Rappold et al. 2017). Increased annual average temperatures and the subsequent increase in the frequency and severity of wildfires in northern California are anticipated to result in impacts from wildfire smoke on the City's population and vulnerable populations in particular (OPR et al. 2018).

Specific populations including linguistically isolated households, senior citizens, and individuals with disabilities or those experiencing homelessness are particularly vulnerable during evacuation events, if wildfire evacuations were to occur in the City. Impacts affecting these populations include inability to access or receive and/or understand warning messages and evacuation notices, limited ability to evacuate due to lack of mobility, limited situational understanding from cognitive conditions, and reliance on medication or treatment devices. Wildfires in the larger Sacramento region can also result in secondary impacts affecting populations. A major consequence of wildfires is post-fire flooding and debris flow. The risk of floods and debris flows after fires increases due to vegetation loss and soil exposure. These flows are a risk to life because they can occur with little warning and can exert great force on objects in their path.

Public Safety Power Shutoffs

Due to a number of recent large-scale wildfires in Northern California caused by electricity infrastructure exposed to extreme heat and high-winds, utilities have begun to implement PSPS to avoid wildfire risk. PSPS events can result in communities experiencing no electricity for multiple days and prevent individuals from using prescribed medications and treatments that rely on electricity or refrigeration. PSPS events can also result in impacts to commerce and economic losses, particularly for businesses that rely on refrigeration such as grocery stores. Hazards such as landslides, wildfires, and flooding can also affect underground natural gas pipelines, exposing and/or damaging these pipelines. The damage resulting from climate change-related hazards on electricity and natural gas infrastructure can have a greater impact on disadvantaged populations, particularly communities that are low-income or individuals who have limited mobility or lack the financial means to make repairs to their property.

Major wildfires often result in the damage to transportation infrastructure and/or closure of roadways. Combined with reduced visibility from wildfire smoke, this leads to a disruption in normal transportation networks and accessibility. Congestion that starts during a mass evacuation can lead to additional traffic management problems, which can result in delays to emergency response, evacuation, and logistical support.

Potential Impact Score

Based on this analysis, the potential impact score for Wildfire is **Medium.**

2.6 ADAPTIVE CAPACITY

This section analyzes the City's current capacity to address and adapt projected increase in severity and frequency of climate-related hazards. The City and regional agencies have established plans, policies, and programs that address climate change impacts. These efforts, however, do not comprehensively identify strategies that will be taken by local and regional governments to address the full scope and magnitude of potential climate impacts. Climate change will increase the frequency and severity of climate-related hazards in the future, requiring updates to emergency response, land use planning, and strategic partnerships. A summary of the regional and local planning efforts to adapt to climate change and climate-related hazards are presented below.

Existing State and Regional Planning Efforts

California Department of Transportation

The Climate Change Branch in the California Department of Transportation (Caltrans) Division of Transportation Planning is responsible for overseeing the development, coordination, and implementation of climate change policies in all aspects of the Department's decision making. In 2013, Caltrans completed its first report intended to help reduce GHG emissions and adapt the State's transportation system to prepare for the impacts of climate change (Caltrans 2013), which includes a series of strategies to reduce the risk from various climate change impacts, including increasingly intense precipitation events.

Strategies outlined in the report include using vegetation to prevent erosion along roadways, assessing and resizing culverts to accommodate increased precipitation, coordinating with local jurisdictions regarding route closures as well as pursing individual projects included in the Caltrans District Vulnerability Assessments. In 2019, Caltrans completed the District 3 Vulnerability Assessment which provides an overview of potential climate impacts to the district's portion of the State Highway System. The District 3 Vulnerability Assessment is part of a larger adaptation process undertaken by Caltrans to assess risk to Caltrans assets in the district and prioritize adaptation strategies from various climate impacts. The District 3 Vulnerability Assessment includes projected climate change exposure from precipitation change, flooding, temperature change, wildfire, storm surge, and sea level rise.

Sacramento Area Council of Governments

The Sacramento Area Council of Governments (SACOG) is the Metropolitan Planning Organization for the six-county Sacramento region including the 22 cities within El Dorado, Placer, Sacramento, Sutter, Yolo, and Yuba Counties. SACOG develops the region's long-range transportation plan which guides transportation and land use planning in the region. In 2015, SACOG adopted the Sacramento Region Transportation Climate Adaptation Plan to address how potential climate change impacts affect the region's transportation infrastructure. The plan highlights key impacts from climate change that could occur on the Sacramento region's transportation system in the future as well as a guiding action plan for future adaptation planning and implementation.

Sacramento County

The County completed a vulnerability assessment in 2015 that assessed the projected changes associated with climate change in the County (including the City of Rancho Cordova), including impacts from changes in precipitation patterns and increased flooding. The assessment highlighted the unique vulnerabilities of the County to climate change including projected increases in the frequency, intensity, and duration of extreme storm events as well as projected regional temperature increases leading to earlier and more rapid melting of the Sierra Nevada snowpack and subsequent increases in flow rate of surface waters in the County (Sacramento County 2021).

The County is currently working to conduct a study looking at current and future precipitation trends in the County under the influence of climate change. This work will inform an update to the County's Drainage Manual better prepare for future changes in precipitation. The County Drainage Manual is used by incorporated cities in the County to design and build drainage and stormwater infrastructure and inform development standards.

Sacramento Public Department of Health Services

As a division of the Sacramento County Department of Health Services, Sacramento County Public Health works to promote, protect, and ensure conditions for optimal health and public safety for residents and communities in the County. As part of its work in helping prevent health impacts from extreme heat, Sacramento County Public Health conducts community education related to public health and emergency preparedness. It also has developed plans with the Sacramento Office of Emergency Services on wildfire smoke and response plans. Sacramento County Public Health has also begun to research the impacts of climate change using available tools specific to extreme heat and public health.

Sacramento Office of Emergency Services

The Sacramento County Office of Emergency Services (Sacramento OES) provides support and resources for emergency preparedness through its Sacramento Ready Program and operates the county's Emergency Alerts Notification System. Sacramento, Yolo, and Placer County residents can use the Citizen Opt-In portal to receive critical and time-sensitive alerts regarding flooding, levee failures, severe weather, disaster events, unexpected road closures, missing persons, and evacuations of buildings or neighborhoods in specific geographic locations. Sacramento OES coordinates with police and fire departments in the incorporated cities in the county for emergency planning and responses purposes. In regard to heat-related events, Sacramento OES focuses on the immediate effects of events; near-term risks from these events, particularly fires, droughts, and air pollution. Sacramento OES also maintains the County's Emergency Operation Plan, which includes protocols for emergency operations during extreme heat events. Sacramento OES also develops and updates planning documents, including the County's *Evacuation Plan*, *Emergency Operations Plan*, *Mass Care and Shelter Plan*, and the County's LHMP and Annexes including the City. The City's Annex in the LHMP includes climate change as a hazard and discusses how climate change will impact other hazards in the City, rating the likelihood of occurrence high and vulnerability to climate change as high.

Sacramento Metropolitan Fire District

The Sacramento Metropolitan Fire District (SMFD) provides fire protection services, fire suppression, inspection, plan checking, emergency transportation and medical services, public education, advanced life support, and rescue services to the City as well as the unincorporated portions of the Planning Area and southern the County. SMFD encompasses approximately 417 square miles in the southern portion of the County and includes both urban and rural areas. SMFD is the largest district in the County and the seventh largest local fire agency in the State of California. SMFD has 42 fire stations with approximately 673 paid personnel on its staff. The District includes 39 engine companies, 5 truck companies, 12 medic transportation units, 8 historical fire apparatus, 5 crash/rescue units, and various watercraft response units. In the City's General Plan Planning Area, SMFD currently has seven fire stations.

Sacramento Metropolitan Air Quality Management District

The Sacramento Metropolitan Air Quality Management District (SMAQMD) is the agency responsible for monitoring air pollution in the Sacramento Valley Air Basin and for developing and administering programs to reduce air pollution levels below the health-based standards established by the State and Federal governments. SMAQMD is working to develop a UHI model to help identify sensitivities in the district to extreme heat and climate change, as well as develop and model the effects of mitigation strategies (e.g., green roofs, cool pavements). SMAQMD is also working to develop an update to the California Emissions Estimator Model and hopes to include an element to the tool that provides quantification of the benefits of climate adaptation strategies. The agency also works to provide funding from Assembly Bill 617 for the Clean Cars for All program, which provides increased access to electric vehicles for low-income residents. As part of the Plan development process, representatives from SMAQMD participated in the Heat Working Group and provided input on the development of this white paper.

Sacramento Municipal Utility District

SMUD is a publicly owned utility that provides electricity to the County and small portions of Placer County. In regard to climate change, SMUD has developed a sustainable communities program focusing on disadvantaged communities, as well as its Climate Readiness Assessment and Action Plan (SMUD 2016), which is intended to help the utility to adapt to and address climate change through community engagement, enterprise programs, capital projects, and operational initiatives. SMUD also works with the Sacramento Tree Foundation to operate the Sacramento Shade Program, which provides landscape assessments and free shade trees to SMUD customers. SMUD also operates Living Future Project Accelerator, which emphasizes sustainable commercial and residential building practices, and is beginning to work toward a land-based carbon storage program.

Sacramento Tree Foundation

The Sacramento Tree Foundation is a nonprofit organization that empowers people to plant, protect, and learn about trees in the Sacramento region. The organization has several programs that support its mission and provide services to cities and residents in the Sacramento region:

- Sacramento Shade Program – This program, in partnership with SMUD, provides free landscape assessments and up to 10 free shade trees that provide a host of benefits to the residents and the surrounding neighborhoods. The organization's work with SMUD emphasizes planting locations and tree varieties that reflect SMUD's goals for carbon sequestration.
- NeighborWoods Program – This program provides support to communities throughout the Sacramento region by offering expertise, training, tools, and advice to plant and protect trees in their neighborhoods.
- Urban Wood Rescue Program - This program works to preserve useful life of the trees by providing logging and milling services for trees which have reached the end of their life. This lumber is then sold, providing a second life for the trees while capturing carbon sequestered during their lifetime.

The organization also conducts community outreach campaigns, utilizing door to door canvassing and community meetings to promote the benefits of the urban forest.

Existing Local Planning Efforts

City of Rancho Cordova

In 2006, the City adopted its first General Plan. The General Plan includes a Safety Element which includes goals, policies, and actions to address a set of safety issues in the City including traffic hazards, airport safety, neighborhood policing, and flooding. The following list of Goals and corresponding policies in the Safety Element help address and mitigate impacts from climate-related hazards.

GOAL S.2: Reduce the possibility of a flooding or drainage issue causing loss of life or damage to property.

- Policy S.2.1: Support and encourage efforts to limit and reduce the potential for community flooding from the Cosumnes or American Rivers.
- Policy S.2.2: Manage the risk of flooding by discouraging new development located in an area that is likely to flood.
- Policy S.2.3: Discourage the creation of new parcels when the presence of easements, floodplain, marsh, or riparian habitat, and/or other features would leave insufficient land to build and operate structures. This policy shall not apply to open space lots specifically created for dedication to the City or another appropriate party for habitat protection, flood control, drainage, or wetland maintenance.
- Policy S.2.4: Ensure that adequate drainage exists for both existing and new development.

GOAL S.9: Reduce the probability of fire damage to all the City's structures.

- Policy S.9.1: Cooperate with the Sacramento Metropolitan Fire District (SMFD) to reduce fire hazards, assist in fire suppression, and ensure efficient emergency medical response.
- Policy S.9.2: Provide infill development with adequate off-site improvements to meet onsite fire flow requirements.
- Policy S.9.3: Consider establishing mitigation fees to fund adequate fire protection and emergency medical response facilities, if such fees are critical and necessary to meet the facility funding needs of SMFD and existing methods of financing are inadequate.

The City also has regulations within the Municipal Code, specifically, Chapter 23.716 "Landscaping," that provides guidance for landscaping and tree planting requirements for new development in the City. Title 19, "Trees," of the Municipal Code provides regulations regarding the preservation of public trees of local importance and mitigation of tree loss.

The City adopted their Emergency Operations Plan (EOP) in 2018. The EOP describes how the jurisdiction will manage and coordinate resources and personnel responding to emergency situations. It detailed information covering Emergency Operations Center procedures, documentation and reference and support information and includes response protocols for a comprehensive set of emergency situations including climate-related hazard events including flooding, wildland fire, and extreme heat. The document is continually evolving as the City grows with recommendations for improvement solicited and carefully considered for future revisions.

City of Rancho Cordova Public Works Department

The City's Public Works Department supports important activities and functions within the City, which have an impact on UHI, including designing, constructing, operating, and maintaining the City's road network and drainage systems. The Public Works Department is also responsible for the maintenance of roadways in the City as well as the the City's Capital Improvements Program, which includes developing, upgrading and implementing the City's *Capital Improvements Program 5-Year Plan* – a list of improvement projects for various components of City operations.

City of Rancho Cordova Police Department

The Rancho Cordova Police Department is contracted through the Sacramento County Sheriff's Department to provide patrol, traffic enforcement, investigations, and administrative services to the City. Portions of the General Plan Planning Area outside the current City limits are within the Sacramento County Sheriff Department's jurisdictional boundaries.

Summary of Adaptive Capacity

Table 13 evaluates the specific climate change effects covered under each of the plans and reports discussed above. As shown in Table 13, multiple planning efforts have been made to address the climate change-related impacts that are expected to impact the City. Mitigation and adaptation measures for hazards including flooding, storms and extreme weather events, and wildfires and severe wind have been relatively well documented in assessments prepared previously. Other climate change hazards including impacts on human health, drought and available water supply, extreme heat and heat waves, landslides, and sea-level rise are noted in various regional planning efforts. However, these efforts do not analyze regional climate change effects consistently while developing adaptation strategies. Most of the policies provided in existing plans are broad-based strategies to reduce risk from climate change. Thus, it is important to note that specific and targeted policies should be developed to address the resilience of the most vulnerable populations and assets in the City.

Table 13 Adaptive Capacity in Existing Plans and Reports

Plan or Report	Climate Change Hazard			
	Extreme Heat Events	Extreme Precipitation and Flooding	Drought and Water Supply	Wildfires
Sacramento County LHMP Annex	✓	✓	✓	✓
City's General Plan		✓	✓	✓
California's Fourth Climate Change Assessment Sacramento Valley Regional Report	✓	✓	✓	✓
Caltrans Climate Change Vulnerability Assessment District 3	✓	✓		✓
City Water Purveyor's Urban Water Management Plans		✓		
City's Emergency Operations Plan		✓	✓	✓

Source: Data compiled by Ascent Environmental in 2021.

Adaptive Capacity Scoring by Hazard

Based on a combination of the adaptation initiatives outlined in these documents and additional adaptive efforts that have been pursued, the City's adaptive capacity for each climate change effect can be rated Low, Medium, or High. High adaptive capacity indicates that sufficient measures are already in place to address the points of sensitivity and impacts associated with climate change, while a low rating indicates a community is unprepared and requires major changes to address hazards (CalOES 2020).

Increased Temperatures and Extreme Heat

Adaptive Capacity Rating: Low

The City does not generate its own electricity and may not be in a position to protect vulnerable populations from the impacts that will be caused by rising temperatures and a drastic increase in the number of extreme heat events. As rising temperatures and extreme heat lead to more frequent electricity outages, the lack of backup power sources for residents and business will expose more residents to risk of health impacts associated with extreme heat. While the LHMP does include extreme heat as a hazard, relevant information is limited. Impacts associated with increases in temperatures and extreme heat events are the largest potential impact for the City. This means that although the City may be adequately prepared to address extreme heat events currently, the vulnerabilities faced by the City including impacts to youth, seniors, and homeless populations as well as impacts on energy demand and services are likely to exceed to City's current capacity.

For these reasons, the adaptive capacity ranking for increased temperatures and extreme heat is Low.

Increased Wildfire Risk

Adaptive Capacity Rating: High

The County, State and regional agencies, and other partners are implementing a diverse array of policies and programs that address the design of structures, fire safety, community preparedness, and emergency response, decreasing the City's overall vulnerability to the threat of wildfire. However, as the threat of wildfire increases both locally and regionally, the City, in coordination with federal, state, and local agencies, will need to continue to adapt to projected impacts from wildfire. While the City is at relatively low risk from direct wildfire impacts, the affects from regional wildfires on the City through secondary impacts such as wildfire smoke and regional transportation route disruptions will continue to affect the City. Because these impacts have been increasing in intensity and severity in recent years and are somewhat novel, the City will need to make moderate changes to expand its capacity to address these types of impacts.

For these reasons, the adaptive capacity associated with wildfire is high.

Increased Extreme Precipitation and Flooding

Adaptive Capacity Rating: Medium

The City has adequately assessed its flood risk through the LHMP and other planning documents. The City and stakeholders have developed, adopted, and enforced several policies and programs that will serve to mitigate impacts from increasingly frequent floods in the future. While the City's populations and assets are not severely threatened by floods as identified in the LHMP, the City, the County and other regional and local agencies can continue to implement policies and programs that reduce the risks associated with significant flooding events. As noted in Section 2.3, the risk of a large-scale storm event similar to the Great Flood events of 1861–1862 is more likely than not occur at least once by 2060. This means that although the City is adequately prepared to address flooding events currently, an event such as this would result in widescale impacts on the City and potentially affect Folsom Dam.

Therefore, the adaptive capacity associated with increased extreme precipitation and flooding is medium.

Drought and Water Supply

Adaptive Capacity Rating: Medium

The City understands that a reliable water supply is essential. Each water purveyors that provide water resource so the City have UWMPs and Drought Contingency Plans, which will assist in building resilience to future drought conditions. The City is still somewhat vulnerable to these climate-related hazards, particularly in terms of the economic and related impacts (irrigation of recreation fields, constraints on future housing development) of generally dryer conditions, interannual precipitation variability, and reduced snowpack. These climate change effects will pose risks to tourism-related businesses that rely on pass-by visitors to Folsom Lake and the surrounding recreation areas when long-term droughts do occur.

Based on the reasons stated above, the adaptive capacity ranking for drought, water supply, and reduced snowpack is medium.

2.7 VULNERABILITY SCORING

The City's vulnerability to each identified climate change impact is assessed based on the magnitude of risk posed to populations and assets, and any existing measures in place to mitigate these impacts. Potential impacts and adaptive capacity are rated on a qualitative scale from Low to High based on guidance from the APG. A description of each qualitative rating for both factors is provided in Table 14.

Table 14 Potential Impact and Adaptive Capacity Scoring

Score	Potential Impact	Adaptive Capacity
Low	Impact is unlikely based on projected exposure; would result in minor consequences to public health, safety, and/or other metrics of concern.	The population or asset lacks capability to manage climate impact; major changes would be required.
Medium	Impact is somewhat likely based on projected exposure; would result in some consequences to public health, safety, and/or other metrics of concern.	The population or asset has some capacity to manage climate impact; some changes would be required.
High	Impact is highly likely based on projected exposure; would result in substantial consequences to public health, safety, and/or other metrics of concern.	The population or asset has high capacity to manage climate impact; minimal to no changes are required.

Source: CalOES 2020

After rating potential impacts and adaptive capacity, an overall vulnerability score is determined for each climate change impact. This scoring can help the City understand which effects pose the greatest threats and should be prioritized in future planning efforts. Table 15 presents the rubric used to determine the overall vulnerability scores based on the ratings for potential impacts and adaptive capacity.

Table 15 Vulnerability Scoring

		Vulnerability Score		
Potential Impacts	High	3	4	5
	Medium	2	3	4
	Low	1	2	3
		High	Medium	Low
		Adaptive Capacity		

Source: CalOES 2020.

Vulnerability scoring for each climate change effect identified and evaluated in Sections 2.2 through 2.6 is included in Table 16 below. The table shows that increased temperatures and extreme heat is assigned a vulnerability rating of 5 and therefore should be a high priority for the City. Impacts from increased precipitation and flooding was scored as a 4 while drought and water supply risks was assigned a vulnerability score of 3. These climate change effects are likely to have significant impacts on the City's populations, built environment, and community functions in the near-term, and although a variety of adaptive efforts related to both climate change effects are in place and underway, the magnitude of the risks posed by these hazards contributes to high vulnerability in the City. Increased wildfire risk is characterized as having a vulnerability rating of 2. This climate change effect will likely have lower priority impacts on the City and is currently being addressed adequately based on existing conditions, but additional adaptation and resilience planning will be required in the future to mitigate impacts and protect the City.

Table 16 Vulnerability Scoring Summary

Climate Change Effect	Vulnerability Score		
	Vulnerability Score		
	Adaptive Capacity	Potential Impact	Vulnerability
Temperature and Extreme Heat	Low	High	5
Precipitation and Flooding	Medium	High	4
Drought and Water Supply	Medium	Medium	3
Wildfire	High	Medium	2

Source: CalOES 2020; adapted by Ascent Environmental in 2021.

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Appendix G

List of Potential Funding Options

List of Potential Funding Options for CAAP Implementation		
Funding Option	Description	Potential CAAP Implementation
Sacramento Municipal Utility District (SMUD) Residential Rebates	SMUD provides residential rebates and special promotions for energy efficient appliances and products including induction cooktops/ranges, heat pump water heater upgrades, ENERGY STAR® clothes washers and refrigerators, smart thermostats, heating, ventilation, and air conditioning (HVAC) replacement with a heat pump, smart lighting starter kits, energy savings kits, power strips, LED bulbs, faucet aerators, showerheads, water conservation kits, smart sprinkler controllers, and drip irrigation retrofit kits. SMUD also offers residents a discounted electric rate to support EV charging, funding for home EV charging equipment and installation, and a managed EV charging program to support vehicle charging when demand is low.	Building Energy Sector; Water Sector; On-Road Transportation Sector
Sacramento Municipal Utility District (SMUD) Business Rebates	SMUD provides business rebates for lighting, refrigeration, and heating or cooling (HVAC) systems through several different rebate programs, including a program specific to multifamily residential properties. It also provides electric vehicle (EV) programs for commercial vehicles and EV charging, an electric forklift incentive pilot program, and SMUD eFuel^{SM} Services to assess, design, construct and maintain electric vehicle chargers for commercial customers interested in business/fleet electric vehicles and charging, workplace employee charging or multi-family tenant charging.	Building Energy Sector; On-Road Transportation Sector; Off Road Vehicles and Equipment Sector
DOE Energy Efficiency and Conservation Block Grant (EECBG) Program	Part of the DOE's State and Community Energy Program (SCEP), the EECBG program provides formula grants to local governments to implement strategies to reduce fossil fuel emissions, decrease total energy use, and improve energy efficiency. The funds will consist a two-year budget period for local governments. Rancho Cordova's allocation is $138,900.	Building Energy Sector
California Energy Commission 1 Percent Interest Rate Loans	The California Energy Commission offers 1 percent loans for local jurisdictions to conduct projects with proven energy savings at municipal facilities.	Building Energy Sector
California Lending for Energy and Environmental Needs (CLEEN)	This funding source, as a program of California Infrastructure and Economic Development Bank, provides direct public financing to municipalities, universities, schools, and hospitals to help meet the state's goals for GHG reductions, water conservation, and environmental preservation.	Building Energy Sector
California Energy Commission Electric Program Investment Charge Program (EPIC)	The EPIC program provides more than $130 million annually in grants to both public agencies and private entities for the development and deployment of renewable energy, clean electric building and transportation, energy resilience, and advanced grid technologies in to accelerate the transformation of the electricity sector.	Building Energy Sector
GRID Alternatives	GRID Alternatives is a nonprofit organization that provides no-cost solar installations to low-income residents and provides assistance for communities in developing multifamily and community-scale solar installations. The organization also provides hands-on job training for volunteers interested in employment in the solar industry.	Building Energy Sector

List of Potential Funding Options for CAAP Implementation		
Funding Option	Description	Potential CAAP Implementation
California Department of Community Services and Development, Low-Income Weatherization Program	Administered by the California Department of Community Services and Development, the Low-Income Weatherization Program provides low-income households with solar photovoltaic (PV) systems and energy efficiency upgrades at no cost to residents. The program is designed with the primary goal of reducing GHG emissions by saving energy and generating clean renewable energy while reducing energy costs for low-income single-family households and multi-family affordable housing.	Building Energy Sector
Building Initiative for Low-Emissions Development (BUILD) Program	The CA Energy Commission's Building Initiative for Low-Emissions Development (BUILD) Program is designed to provide technical assistance and incentives for new all-electric low-income residential buildings that reduce GHG emissions.	Building Energy Sector
Federal Inflation Reduction Act (IRA) of 2022	The IRA invests nearly $400 billion in Energy Security and Climate Change programs over the next ten years. This includes rebates and tax credits for energy efficiency, renewable energy, and clean vehicle purchases, as well as funding for clean power infrastructure and climate resiliency.	Building Energy Sector
HUD Community Development Block Grant (CDBG) Program	The HUD CDBG Program supports community development activities to build stronger and more resilient communities. Activities may address needs such as infrastructure, economic development projects, public facilities installation, community centers, housing rehabilitation, public services, clearance/acquisition, microenterprise assistance, code enforcement, and homeowner assistance.	Building Energy Sector
Federal Infrastructure Investment and Jobs Act, aka Bipartisan Infrastructure Law (BIL) or "Building a Better America"	The U.S. Department of Transportation announced the availability of nearly $3 billion in competitive grant funding for surface transportation projects that were included in the infrastructure law. The grants can fund projects too large or complex for traditional funding programs like multijurisdictional and multimodal projects. The BIL also invests in clean energy by modernizing the power grid, weatherize and upgrade homes, schools, and businesses to make them cleaner and more affordable, and in the creation of new programs to support the development of clean energy technology. It will also invest in broadband infrastructure development to provide access to reliable high-speed internet.	On-road Transportation Sector; Building Energy Sector
Rebuilding American Infrastructure with Sustainability and Equity (RAISE) Grants	The U.S. Department of Transportation is offering $1.5 billion in grant funding through the RAISE discretionary grant program. The program uses a merit-based process to select projects that will build and repair critical pieces of freight and passenger transportation networks.	On-road Transportation Sector
Caltrans Active Transportation Planning Program	This program provides competitive planning grants for jurisdictions working on planning projects to increase the proportion of trips accomplished by biking and walking and reduce community-wide vehicle miles traveled.	On-road Transportation Sector

List of Potential Funding Options for CAAP Implementation		
Funding Option	Description	Potential CAAP Implementation
Caltrans Transportation Planning Grant Program	The Transportation Planning Grant Program provides competitive planning grants to help local jurisdictions in a variety of transportation planning efforts including development and implementation of regional transportation plans. The program also helps address multimodal transportation deficiencies with a focus on transit and support planning actions that advance climate adaptation efforts for local transportation systems.	On-road Transportation Sector
Caltrans Clean California Local Grant Program	The Clean California Local Grant Program provides competitive grants to projects that beautify and improve local roads, parks, pathways, and transit centers. Cycle 2 of grants includes up to $100 million in funding.	On-road Transportation Sector; Natural and Urban landscapes
California Clean Vehicle Rebate Project (CVRP)	This California Air Resources Board program provides rebates for the purchase or lease of a new, eligible zero-emission or plug-in hybrid vehicle. As of February 28, 2023, increased rebate amounts have been updated to $7,500 for battery electric and fuel cell electric vehicles and $6,500 for plug-in hybrid vehicles.	On-road Transportation Sector
Strategic Growth Council Affordable Housing and Sustainable Communities Program	This program, administered by the California Department of Housing and Community Development, funds land use, housing, transportation, and land preservation projects that support infill and compact development and reduce GHG emissions. Funds are available in the form of loans and/or grants in two kinds of project areas: Transit-Oriented Development Project Areas and Integrated Connectivity Project Areas.	On-road Transportation Sector
SB 2 Planning Grant Program	This planning grant program provides financial and technical assistance to local governments to update planning documents and zoning ordinances, including general plans, community plans, specific plans, sustainable communities strategies, and local coastal programs, to streamline housing production. The program does not use a competitive process to award funds. All localities that meet the eligibility requirements outlined in the grant application receive funding.	On-road Transportation Sector
Volkswagen (VW) Environmental Mitigation Trust	The VW Environmental Mitigation Trust provides about $423 million for California to mitigate the excess nitrogen oxide emissions by funding specified eligible actions focused mostly on “scrap and replace” projects for the heavy-duty sector, including on-road freight trucks, transit and shuttle buses, school buses, forklifts and port cargo handling equipment, commercial marine vessels, and freight switcher locomotives.	On-road Transportation Sector; Off-Road Vehicles and Equipment Sector
California Air Resources Board Carl Moyer Memorial Air Quality Standards Attainment Program	The Carl Moyer Program provides grant funds towards the replacement of old, high-polluting vehicles, engines, and equipment, with new technologies that are cleaner than required or earlier than required by rules and regulations. The Sacramento Metropolitan Air Quality Management District implements this program in the Sacramento region.	On-road Transportation Sector; Off-Road Vehicles and Equipment Sector

List of Potential Funding Options for CAAP Implementation		
Funding Option	Description	Potential CAAP Implementation
CalRecycle Food Waste Prevention and Rescue Grant Program	The purpose of this competitive grant program is to reduce overall GHG emissions by establishing new or expanding existing food waste prevention projects (source reduction or food rescue for people) in California to reduce the amount of food being disposed of in landfills.	Solid Waste Sector
CalRecycle Local Enforcement Agency Grant Program	CalRecycle administers a non-competitive grant program to assist local enforcement agencies with their solid waste facilities permit and inspection program.	Solid Waste Sector
California Department of Water Resources Water Grant and Loans	The California Department of Water Resources provides a number of grant and loan programs that support integrated watershed management. These funds can be used to address issues such as groundwater sustainability, drought, and water supply reliability. Programs include the Small Communities Drought Relief Program, the Riverine Stewardship Program, Delta Levees Special Flood Control Projects Program, and the LandFlex Program.	Water Sector
CivicSpark Program	The CivicSpark Program supports sustainability-focused research, planning, and implementation projects throughout California by providing public agencies and other organizations with high-quality capacity-building support. This 11-month AmeriCorps program employs highly motivated emerging sustainability professionals.	Green Economy; Public Participation & Engagement
Regional Early Action Planning (REAP)	REAP allows councils of governments and other regional entities to collaborate on projects that have a broader regional impact on housing. The grant funding helps regional entities and governments facilitate local housing production that will assist local governments in meeting their Regional Housing Need Allocation.	On-road Transportation Sector
Sustainable Transportation Equity Project (STEP)	STEP is a new transportation equity pilot that aims to address community residents' transportation needs, increase access to key destinations, and reduce greenhouse gas emissions by funding planning, clean transportation, and supporting projects. STEP's overarching purpose is to increase transportation equity in disadvantaged and low-income communities throughout California via two types of grants: Planning and Capacity Building Grants and Implementation Grants. Within these two grant types, CARB currently has up to $22 million available.	On-road Transportation Sector
Infrastructure State Revolving Fund (ISRF)	The California Infrastructure and Economic Development Bank provides loans to local governments for infrastructure and economic development. ISRF has financed projects that are vital to communities throughout the state such as city and county street highway improvements, wastewater treatment plant construction and upgrades, and educational and cultural facilities.	On-road Transportation Sector; Buildings and Energy sector; Water and Wastewater Sector; Solid Waste Sector

List of Potential Funding Options for CAAP Implementation		
Funding Option	Description	Potential CAAP Implementation
CAL FIRE's Grant Programs	CAL FIRE provides a number of grant programs such as the wildfire prevention grant program, the business and workforce development through wood products and bioenergy program, the California forest improvement program, the forest health program, the forest health research program, forest legacy program, and the urban and community forestry program. Funding and application dates can be found on their website https://www.fire.ca.gov/grants/. .	Adaptation
OPR Regional Resilience Planning and Implementation Grant Program (RRGP)	The ICARP Regional Resilience Planning and Implementation Grant Program (Regional Resilience Grant Program, or RRGP) will fund local public entities, California Native American Tribes, and Community-Based Organizations that are planning and implementing projects that advance climate resilience and respond to the greatest climate risks in their regions. Over multiple funding rounds, the RRGP will invest $125 million into regions advancing resilience and responding to their regions' greatest climate risks through three major activities: capacity building, planning (including identifying climate resilience priorities), and project implementation. The first grant cycle will invest $21.3 million. At least $12.5 million of that total will be for regions planning for climate adaptation and developing action plans that prioritize projects or actions addressing the greatest climate risks facing a region, particularly in the most vulnerable communities. Grants will be made available both competitively and on a formula basis. Application period begins in Spring 2023.	Adaptation
SGC Transformative Climate Communities (TCC)	The Transformative Climate Communities (TCC) Program funds development and infrastructure projects that achieve major environmental, health, and economic benefits in California's most disadvantaged communities. More info here: Transformative Climate Communities: Community-led transformation for a sustainable California	All sectors
SGC Community Assistance for Climate Equity (CACE)	The SGC's CACE Program provides technical assistance and capacity building services to help under-resourced communities foster successful climate projects. Within CACE, the Boost Program supports under-resourced local governments in building capacity, optimizing existing resources, strengthening community partnerships, and transforming their approach to address and fund climate activities.	All sectors
SGC Community Resilience Centers (CRC) Grants Program	SGC's CRC program will fund new construction and upgrades of neighborhood-level resilience centers to provide shelter and resources during climate and other emergencies. The program will also fund year-round services and ongoing programming that build overall community resilience. More info here: Community Resilience Centers Program: Strengthening community resilience in neighborhoods across California	Adaptation

List of Potential Funding Options for CAAP Implementation		
Funding Option	Description	Potential CAAP Implementation
Climate Resilience Districts Act (Senate Bill 852)	Senate Bill 852 (Dodd, 2022) established the "Climate Resilience District". This is a new public financing tool available to cities, counties, and special districts to undertake projects and programs to address climate change including wildfire, sea level rise, extreme heat and cold, drought, flooding, and related issues. The districts can be formed by one or public agencies and, once created, can raise revenue through tax increment funding, voter-approved supplemental property taxes, property benefit assessments, or fees.	Adaptation
CA Climate & Energy Collaborative (CCEC) Funding Resources	The CCEC provides several helpful resources to support funding for implementation of local climate and energy initiatives. These include a "How to Guide: Ways to Get Funded" resource that outlines both internal and external funding best practices (see Ways to get Funded – California Climate and Energy Collaborative (eecoordinator.info), as well as a regularly-updated list of current and upcoming funding opportunities with links (see Funding Resources – California Climate and Energy Collaborative (eecoordinator.info).	
California Grants Portal	The California Grants Portal (a project by the California State Library) is a one-stop destination to find all grants and loans offered on a competitive or first-come basis by California state agencies. See: Home - California Grants Portal	