
Appendix

B

AIR QUALITY & GREENHOUSE GAS
EMISSIONS AND ENERGY
CALCULATIONS

Town of Loomis Proposed General Plan Update - Maximum Year Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Town of Loomis Proposed General Plan Update - Maximum Year
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	41.6
Location	38.8214475172297, -121.19348922359225
County	Placer-Sacramento
City	Loomis
Air District	Placer County APCD
Air Basin	Sacramento Valley
TAZ	436
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	4.00	1000sqft	0.20	3,699	955	—	—	Assembly and Sales
Elementary School	90.0	1000sqft	28.0	90,000	121,968	121,968	—	—

Condo/Townhouse	102	Dwelling Unit	9.30	85,770	34,848	—	206	High density and mixed use residential
Industrial Park	22.0	1000sqft	1.00	22,430	4,356	—	—	—
Single Family Housing	50.0	Dwelling Unit	14.0	78,879	585,643	—	135	Low-Density Residential
Office Park	12.0	1000sqft	0.55	11,835	4,833	—	—	Mixed Use Office Space and Neighborhood Commercial Space
Strip Mall	22.0	1000sqft	0.25	22,253	4,356	—	—	Mixed Use Retail Space
Discount Club	155	1000sqft	17.0	155,000	74,052	—	—	Regional Retail
High Turnover (Sit Down Restaurant)	17.0	1000sqft	4.00	17,307	17,424	—	—	—
Parking Lot	11.8	Acre	11.8	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.0	40.4	89.2	98.0	0.15	3.82	7.13	10.9	3.52	2.28	5.79	—	19,570	19,570	0.64	0.54	19.8	19,768
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.5	44.3	129	129	0.19	5.63	15.0	20.6	5.18	6.26	11.4	—	24,637	24,637	0.88	0.59	0.54	24,836

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.76	14.0	43.8	47.0	0.07	1.85	4.92	6.77	1.70	1.77	3.47	—	10,161	10,161	0.33	0.35	5.42	10,278
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.05	2.56	7.99	8.58	0.01	0.34	0.90	1.24	0.31	0.32	0.63	—	1,682	1,682	0.05	0.06	0.90	1,702

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	12.0	40.4	89.2	98.0	0.15	3.82	7.13	10.9	3.52	2.28	5.79	—	19,570	19,570	0.64	0.54	19.8	19,768
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	16.5	44.3	129	129	0.19	5.63	15.0	20.6	5.18	6.26	11.4	—	24,637	24,637	0.88	0.59	0.54	24,836
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	5.76	14.0	43.8	47.0	0.07	1.85	4.92	6.77	1.70	1.77	3.47	—	10,161	10,161	0.33	0.35	5.42	10,278
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	1.05	2.56	7.99	8.58	0.01	0.34	0.90	1.24	0.31	0.32	0.63	—	1,682	1,682	0.05	0.06	0.90	1,702

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.41	0.21	3.70	2.71	0.02	0.29	0.00	0.29	0.29	0.00	0.29	65.2	7,253	7,318	7.53	0.22	0.00	7,572
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.41	0.21	3.70	2.71	0.02	0.29	0.00	0.29	0.29	0.00	0.29	65.2	7,253	7,318	7.53	0.22	0.00	7,572
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.41	0.21	3.70	2.71	0.02	0.29	0.00	0.29	0.29	0.00	0.29	65.2	7,253	7,318	7.53	0.22	0.00	7,572
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.08	0.04	0.68	0.49	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	10.8	1,201	1,212	1.25	0.04	0.00	1,254

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.41	0.21	3.70	2.71	0.02	0.29	—	0.29	0.29	—	0.29	—	7,182	7,182	0.83	0.06	—	7,221
Water	—	—	—	—	—	—	—	—	—	—	—	65.2	71.3	137	6.70	0.16	—	352
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.41	0.21	3.70	2.71	0.02	0.29	0.00	0.29	0.29	0.00	0.29	65.2	7,253	7,318	7.53	0.22	0.00	7,572
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.41	0.21	3.70	2.71	0.02	0.29	—	0.29	0.29	—	0.29	—	7,182	7,182	0.83	0.06	—	7,221
Water	—	—	—	—	—	—	—	—	—	—	—	65.2	71.3	137	6.70	0.16	—	352
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.41	0.21	3.70	2.71	0.02	0.29	0.00	0.29	0.29	0.00	0.29	65.2	7,253	7,318	7.53	0.22	0.00	7,572
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.41	0.21	3.70	2.71	0.02	0.29	—	0.29	0.29	—	0.29	—	7,182	7,182	0.83	0.06	—	7,221
Water	—	—	—	—	—	—	—	—	—	—	—	65.2	71.3	137	6.70	0.16	—	352
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.41	0.21	3.70	2.71	0.02	0.29	0.00	0.29	0.29	0.00	0.29	65.2	7,253	7,318	7.53	0.22	0.00	7,572
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.08	0.04	0.68	0.49	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,189	1,189	0.14	0.01	—	1,195
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	11.8	22.6	1.11	0.03	—	58.2
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.08	0.04	0.68	0.49	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	10.8	1,201	1,212	1.25	0.04	0.00	1,254

3. Construction Emissions Details

3.1. Demolition (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Town of Loomis Proposed General Plan Update - Maximum Year Detailed Report, 12/22/2022

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.39	2.84	27.3	23.5	0.03	1.20	—	1.20	1.10	—	1.10	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.39	2.84	27.3	23.5	0.03	1.20	—	1.20	1.10	—	1.10	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93	0.78	7.49	6.44	0.01	0.33	—	0.33	0.30	—	0.30	—	938	938	0.04	0.01	—	942
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.37	1.17	< 0.005	0.06	—	0.06	0.06	—	0.06	—	155	155	0.01	< 0.005	—	156
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.90	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	174	174	< 0.005	0.01	0.73	177
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.66	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	154	154	< 0.005	0.01	0.02	155
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.18	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	43.2	43.2	< 0.005	< 0.005	0.09	43.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.16	7.16	< 0.005	< 0.005	0.01	7.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Site Preparation (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Town of Loomis Proposed General Plan Update - Maximum Year Detailed Report, 12/22/2022

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.70	3.95	39.7	35.5	0.05	1.81	—	1.81	1.66	—	1.66	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement:	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.65	6.53	5.83	0.01	0.30	—	0.30	0.27	—	0.27	—	870	870	0.04	0.01	—	873
Dust From Material Movement:	—	—	—	—	—	—	1.26	1.26	—	0.65	0.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.19	1.06	< 0.005	0.05	—	0.05	0.05	—	0.05	—	144	144	0.01	< 0.005	—	145
Dust From Material Movement:	—	—	—	—	—	—	0.23	0.23	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.77	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	179	179	< 0.005	0.01	0.02	181
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	30.3	30.3	< 0.005	< 0.005	0.06	30.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	5.01	5.01	< 0.005	< 0.005	0.01	5.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.43	3.72	37.3	31.4	0.06	1.59	—	1.59	1.47	—	1.47	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.43	3.72	37.3	31.4	0.06	1.59	—	1.59	1.47	—	1.47	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement:	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.88	1.58	15.8	13.3	0.03	0.68	—	0.68	0.62	—	0.62	—	2,802	2,802	0.11	0.02	—	2,812
Dust From Material Movement:	—	—	—	—	—	—	1.52	1.52	—	0.61	0.61	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.29	2.89	2.43	< 0.005	0.12	—	0.12	0.11	—	0.11	—	464	464	0.02	< 0.005	—	465
Dust From Material Movement:	—	—	—	—	—	—	0.28	0.28	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	1.20	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	232	232	< 0.005	0.01	0.97	235

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	0.88	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	205	205	< 0.005	0.01	0.03	207
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.38	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	89.3	89.3	< 0.005	< 0.005	0.18	90.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	14.8	14.8	< 0.005	< 0.005	0.03	15.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.50	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.50	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.90	8.41	9.38	0.02	0.39	—	0.39	0.36	—	0.36	—	1,708	1,708	0.07	0.01	—	1,714
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.16	1.54	1.71	< 0.005	0.07	—	0.07	0.07	—	0.07	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.94	0.86	0.61	12.5	0.00	0.00	0.13	0.13	0.00	0.00	0.00	—	2,412	2,412	0.04	0.08	10.1	2,448
Vendor	0.09	0.08	2.90	0.74	0.01	0.03	0.11	0.13	0.03	0.04	0.07	—	2,031	2,031	0.02	0.31	5.22	2,128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.78	0.75	0.77	9.15	0.00	0.00	0.13	0.13	0.00	0.00	0.00	—	2,128	2,128	0.05	0.08	0.26	2,155
Vendor	0.09	0.07	3.12	0.78	0.01	0.03	0.11	0.13	0.03	0.04	0.07	—	2,031	2,031	0.02	0.31	0.14	2,123
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.55	0.53	0.49	6.66	0.00	0.00	0.09	0.09	0.00	0.00	0.00	—	1,558	1,558	0.03	0.06	3.13	1,580
Vendor	0.07	0.05	2.18	0.54	0.01	0.02	0.08	0.10	0.02	0.03	0.05	—	1,447	1,447	0.01	0.22	1.61	1,514
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.09	1.21	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	258	258	0.01	0.01	0.52	262
Vendor	0.01	0.01	0.40	0.10	< 0.005	< 0.005	0.01	0.02	< 0.005	0.01	0.01	—	239	239	< 0.005	0.04	0.27	251
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.88	8.06	10.0	0.01	0.41	—	0.41	0.38	—	0.38	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.88	8.06	10.0	0.01	0.41	—	0.41	0.38	—	0.38	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road Equipment	0.31	0.26	2.43	3.02	< 0.005	0.12	—	0.12	0.11	—	0.11	—	456	456	0.02	< 0.005	—	457
Paving	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.44	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	75.4	75.4	< 0.005	< 0.005	—	75.7
Paving	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.90	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	174	174	< 0.005	0.01	0.73	177
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.66	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	154	154	< 0.005	0.01	0.02	155
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.20	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	47.5	47.5	< 0.005	< 0.005	0.10	48.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.87	7.87	< 0.005	< 0.005	0.02	7.98

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	0.93	1.15	< 0.005	0.04	—	0.04	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	30.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	0.93	1.15	< 0.005	0.04	—	0.04	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	30.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.28	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	40.2	40.2	< 0.005	< 0.005	—	40.4

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Architectural Coatings	—	9.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.66	6.66	< 0.005	< 0.005	—	6.68
Architectural Coatings	—	1.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.12	2.50	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	482	482	0.01	0.02	2.03	490
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.15	1.83	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	426	426	0.01	0.02	0.05	431
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.56	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	132	132	< 0.005	0.01	0.26	134
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	21.8	21.8	< 0.005	< 0.005	0.04	22.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	21.4	21.4	< 0.005	< 0.005	—	21.6
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	231	231	0.04	< 0.005	—	233
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	294	294	0.05	0.01	—	297
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	262	262	0.04	0.01	—	265

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Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	238	238	0.04	< 0.005	—	241
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	138	138	0.02	< 0.005	—	140
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	108	108	0.02	< 0.005	—	109
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	755	755	0.12	0.01	—	762
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	388	388	0.06	0.01	—	392
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	252	252	0.04	< 0.005	—	254
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,688	2,688	0.43	0.05	—	2,715
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	21.4	21.4	< 0.005	< 0.005	—	21.6
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	231	231	0.04	< 0.005	—	233
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	294	294	0.05	0.01	—	297
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	262	262	0.04	0.01	—	265
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	238	238	0.04	< 0.005	—	241
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	138	138	0.02	< 0.005	—	140
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	108	108	0.02	< 0.005	—	109

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Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	755	755	0.12	0.01	—	762
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	388	388	0.06	0.01	—	392
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	252	252	0.04	< 0.005	—	254
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,688	2,688	0.43	0.05	—	2,715
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	3.54	3.54	< 0.005	< 0.005	—	3.57
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	38.2	38.2	0.01	< 0.005	—	38.5
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	48.7	48.7	0.01	< 0.005	—	49.2
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	43.4	43.4	0.01	< 0.005	—	43.9
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	39.4	39.4	0.01	< 0.005	—	39.8
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	22.9	22.9	< 0.005	< 0.005	—	23.1
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	17.9	17.9	< 0.005	< 0.005	—	18.1
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	125	125	0.02	< 0.005	—	126
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	64.3	64.3	0.01	< 0.005	—	64.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	41.7	41.7	0.01	< 0.005	—	42.1

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	445	445	0.07	0.01	—	449
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	-----	-----	------	------	---	-----

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.1	49.1	< 0.005	< 0.005	—	49.3	
Elementary School	0.11	0.06	1.04	0.88	0.01	0.08	—	0.08	0.08	—	0.08	—	1,246	1,246	0.11	< 0.005	—	1,250	
Condo/Townhouse	0.07	0.03	0.60	0.25	< 0.005	0.05	—	0.05	0.05	—	0.05	—	759	759	0.07	< 0.005	—	761	
Industrial Park	0.02	0.01	0.17	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	208	208	0.02	< 0.005	—	208	
Single Family Housing	0.04	0.02	0.37	0.16	< 0.005	0.03	—	0.03	0.03	—	0.03	—	466	466	0.04	< 0.005	—	467	
Office Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	109	109	0.01	< 0.005	—	110	
Strip Mall	0.01	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	123	123	0.01	< 0.005	—	123	
Discount Club	0.08	0.04	0.72	0.60	< 0.005	0.05	—	0.05	0.05	—	0.05	—	857	857	0.08	< 0.005	—	859	
High Turnover (Sit Down Restaurant)	0.06	0.03	0.57	0.48	< 0.005	0.04	—	0.04	0.04	—	0.04	—	676	676	0.06	< 0.005	—	678	
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00	

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Total	0.41	0.21	3.70	2.71	0.02	0.29	—	0.29	0.29	—	0.29	—	4,494	4,494	0.40	0.01	—	4,506
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.1	49.1	< 0.005	< 0.005	—	49.3
Element ary School	0.11	0.06	1.04	0.88	0.01	0.08	—	0.08	0.08	—	0.08	—	1,246	1,246	0.11	< 0.005	—	1,250
Condo/T ownhouse	0.07	0.03	0.60	0.25	< 0.005	0.05	—	0.05	0.05	—	0.05	—	759	759	0.07	< 0.005	—	761
Industrial Park	0.02	0.01	0.17	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	208	208	0.02	< 0.005	—	208
Single Family Housing	0.04	0.02	0.37	0.16	< 0.005	0.03	—	0.03	0.03	—	0.03	—	466	466	0.04	< 0.005	—	467
Office Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	109	109	0.01	< 0.005	—	110
Strip Mall	0.01	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	123	123	0.01	< 0.005	—	123
Discount Club	0.08	0.04	0.72	0.60	< 0.005	0.05	—	0.05	0.05	—	0.05	—	857	857	0.08	< 0.005	—	859
High Turnover (Sit Down Restaurart)	0.06	0.03	0.57	0.48	< 0.005	0.04	—	0.04	0.04	—	0.04	—	676	676	0.06	< 0.005	—	678
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.41	0.21	3.70	2.71	0.02	0.29	—	0.29	0.29	—	0.29	—	4,494	4,494	0.40	0.01	—	4,506
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.14	8.14	< 0.005	< 0.005	—	8.16

Elementary	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	206	206	0.02	< 0.005	—	207
Condo/Townhouse	0.01	0.01	0.11	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	126	126	0.01	< 0.005	—	126
Industrial Park	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.4	34.4	< 0.005	< 0.005	—	34.5
Single Family Housing	0.01	< 0.005	0.07	0.03	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.2	77.2	0.01	< 0.005	—	77.4
Office Park	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.1	18.1	< 0.005	< 0.005	—	18.2
Strip Mall	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.4	20.4	< 0.005	< 0.005	—	20.4
Discount Club	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	142	142	0.01	< 0.005	—	142
High Turnover (Sit Down Restaurant)	0.01	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	112	112	0.01	< 0.005	—	112
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.08	0.04	0.68	0.49	< 0.005	0.05	—	0.05	0.05	—	0.05	—	744	744	0.07	< 0.005	—	746

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Consumer	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1.77	1.63	3.40	0.18	< 0.005	—	9.25
Elementary School	—	—	—	—	—	—	—	—	—	—	—	5.00	7.38	12.4	0.51	0.01	—	28.9
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	6.42	6.31	12.7	0.66	0.02	—	33.9
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9.75	8.95	18.7	1.00	0.02	—	50.9
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3.15	10.3	13.4	0.32	0.01	—	23.9
Office Park	—	—	—	—	—	—	—	—	—	—	—	4.09	3.78	7.87	0.42	0.01	—	21.4
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	3.12	2.90	6.02	0.32	0.01	—	16.3
Discount Club	—	—	—	—	—	—	—	—	—	—	—	22.0	20.9	42.9	2.26	0.05	—	115
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	9.89	9.21	19.1	1.02	0.02	—	51.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.2	71.3	137	6.70	0.16	—	352
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1.77	1.63	3.40	0.18	< 0.005	—	9.25

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Element School	—	—	—	—	—	—	—	—	—	—	—	5.00	7.38	12.4	0.51	0.01	—	28.9
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	6.42	6.31	12.7	0.66	0.02	—	33.9
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9.75	8.95	18.7	1.00	0.02	—	50.9
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3.15	10.3	13.4	0.32	0.01	—	23.9
Office Park	—	—	—	—	—	—	—	—	—	—	—	4.09	3.78	7.87	0.42	0.01	—	21.4
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	3.12	2.90	6.02	0.32	0.01	—	16.3
Discount Club	—	—	—	—	—	—	—	—	—	—	—	22.0	20.9	42.9	2.26	0.05	—	115
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	9.89	9.21	19.1	1.02	0.02	—	51.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.2	71.3	137	6.70	0.16	—	352
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.29	0.27	0.56	0.03	< 0.005	—	1.53
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.83	1.22	2.05	0.09	< 0.005	—	4.79
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	1.06	1.04	2.11	0.11	< 0.005	—	5.62
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1.61	1.48	3.10	0.17	< 0.005	—	8.42

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.52	1.70	2.23	0.05	< 0.005	—	3.96
Office Park	—	—	—	—	—	—	—	—	—	—	—	0.68	0.63	1.30	0.07	< 0.005	—	3.53
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.52	0.48	1.00	0.05	< 0.005	—	2.70
Discount Club	—	—	—	—	—	—	—	—	—	—	—	3.64	3.45	7.10	0.37	0.01	—	19.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.64	1.53	3.16	0.17	< 0.005	—	8.56
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	11.8	22.6	1.11	0.03	—	58.2

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

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Industrial Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Discount Club	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
High Turnover (Sit Down Restaurart)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

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Office Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Discount Club	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
High Turnover (Sit Down Restaurart)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Discount Club	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

High Turnover (Sit Down Restaurart)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
-----------------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
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Demolition	Demolition	1/1/2023	5/21/2023	5.00	100	—
Site Preparation	Site Preparation	1/1/2023	3/26/2023	5.00	60.0	—
Grading	Grading	1/1/2023	8/4/2023	5.00	155	—
Building Construction	Building Construction	1/1/2023	12/31/2023	5.00	260	—
Paving	Paving	1/1/2023	6/3/2023	5.00	110	—
Architectural Coating	Architectural Coating	1/1/2023	6/3/2023	5.00	110	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45

Building Construction	Tractors/Loaders/Backh	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	14.3	LDA,LDT1,LDT2
Demolition	Vendor	—	8.80	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	208	14.3	LDA,LDT1,LDT2

Building Construction	Vendor	69.1	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	41.6	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	333,414	111,138	483,786	161,262	30,867

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	—	—
Site Preparation	—	—	90.0	0.00	—
Grading	—	—	465	0.00	—
Paving	0.00	0.00	0.00	0.00	12.4

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%
Elementary School	0.00	0%
Condo/Townhouse	—	0%
Industrial Park	0.00	0%
Single Family Housing	0.55	0%
Office Park	0.00	0%
Strip Mall	0.00	0%
Discount Club	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Parking Lot	11.8	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0

Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	0.00

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	0.00

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	38,211	204	0.0330	0.0040	153,355
Elementary School	412,488	204	0.0330	0.0040	3,888,737
Condo/Townhouse	526,235	204	0.0330	0.0040	2,368,434
Industrial Park	469,445	204	0.0330	0.0040	647,532

Single Family Housing	426,285	204	0.0330	0.0040	1,454,501
Office Park	247,699	204	0.0330	0.0040	341,665
Strip Mall	193,870	204	0.0330	0.0040	191,945
Discount Club	1,350,372	204	0.0330	0.0040	1,336,968
High Turnover (Sit Down Restaurant)	694,939	204	0.0330	0.0040	2,108,873
Parking Lot	450,653	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	925,000	10,987
Elementary School	2,609,723	3,118,378
Condo/Townhouse	3,352,375	490,031
Industrial Park	5,087,500	50,117
Single Family Housing	1,643,321	8,235,281
Office Park	2,132,805	55,605
Strip Mall	1,629,595	50,117
Discount Club	11,481,241	851,985
High Turnover (Sit Down Restaurant)	5,160,073	200,467
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	0.00	0.00

Elementary School	0.00	0.00
Condo/Townhouse	0.00	0.00
Industrial Park	0.00	0.00
Single Family Housing	0.00	0.00
Office Park	0.00	0.00
Strip Mall	0.00	0.00
Discount Club	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00
Parking Lot	0.00	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
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Temperature and Extreme Heat	28.9	annual days of extreme heat
Extreme Precipitation	5.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	5.05	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	5	0	0	N/A
Extreme Precipitation	2	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	5	1	1	4
Extreme Precipitation	2	1	1	3
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	69.3
AQ-PM	10.4
AQ-DPM	41.3
Drinking Water	0.29
Lead Risk Housing	9.69

Pesticides	27.1
Toxic Releases	10.1
Traffic	40.6
Effect Indicators	—
CleanUp Sites	93.1
Groundwater	70.6
Haz Waste Facilities/Generators	61.6
Impaired Water Bodies	0.00
Solid Waste	42.3
Sensitive Population	—
Asthma	16.1
Cardio-vascular	47.9
Low Birth Weights	5.12
Socioeconomic Factor Indicators	—
Education	30.0
Housing	7.07
Linguistic	0.00
Poverty	18.4
Unemployment	26.9

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	87.87373284
Employed	36.78942641
Median HI	—

Education	—
Bachelor's or higher	64.48094444
High school enrollment	15.50109072
Preschool enrollment	56.79455922
Transportation	—
Auto Access	95.6242782
Active commuting	2.527909663
Social	—
2-parent households	44.88643655
Voting	86.84717054
Neighborhood	—
Alcohol availability	62.74862056
Park access	24.06005389
Retail density	30.50173232
Supermarket access	28.9747209
Tree canopy	92.05697421
Housing	—
Homeownership	79.23777749
Housing habitability	73.37354036
Low-inc homeowner severe housing cost burden	15.55241884
Low-inc renter severe housing cost burden	82.80508148
Uncrowded housing	90.74810728
Health Outcomes	—
Insured adults	66.05928397
Arthritis	0.0
Asthma ER Admissions	81.8
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	17.5
Cognitively Disabled	72.6
Physically Disabled	54.0
Heart Attack ER Admissions	75.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	88.7
Elderly	29.3
English Speaking	98.1
Foreign-born	1.4
Outdoor Workers	25.3

Climate Change Adaptive Capacity	—
Impervious Surface Cover	87.8
Traffic Density	50.9
Traffic Access	23.0
Other Indices	—
Hardship	30.4
Other Decision Support	—
2016 Voting	77.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	10.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Estimated maximum annual buildout of land uses anticipated under the 2040 General Plan.
Construction: Construction Phases	Adjusted durations if phase went beyond end of 2023 to only represent maximum annual scenario.
Operations: Hearths	Construction-only run, operations estimated separately.
Operations: Consumer Products	Construction-only run, operations estimated separately.
Operations: Architectural Coatings	Construction-only run, operations estimated separately.
Operations: Energy Use	Construction-only run, operations estimated separately.
Operations: Water and Waste Water	Construction-only run, operations estimated separately.
Operations: Refrigerants	Construction-only run, operations estimated separately.
Operations: Landscape Equipment	Construction-only run, operations estimated separately.
Operations: Solid Waste	Construction-only run, operations estimated separately.

Town of Loomis Proposed General Plan Update - Maximum Year - Mit Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Town of Loomis Proposed General Plan Update - Maximum Year - Mit
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	41.6
Location	38.8214475172297, -121.19348922359225
County	Placer-Sacramento
City	Loomis
Air District	Placer County APCD
Air Basin	Sacramento Valley
TAZ	436
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	4.00	1000sqft	0.20	3,699	955	—	—	Assembly and Sales
Elementary School	90.0	1000sqft	28.0	90,000	121,968	121,968	—	—

Condo/Townhouse	102	Dwelling Unit	9.30	85,770	34,848	—	206	High density and mixed use residential
Industrial Park	22.0	1000sqft	1.00	22,430	4,356	—	—	—
Single Family Housing	50.0	Dwelling Unit	14.0	78,879	585,643	—	135	Low-Density Residential
Office Park	12.0	1000sqft	0.55	11,835	4,833	—	—	Mixed Use Office Space and Neighborhood Commercial Space
Strip Mall	22.0	1000sqft	0.25	22,253	4,356	—	—	Mixed Use Retail Space
Discount Club	155	1000sqft	17.0	155,000	74,052	—	—	Regional Retail
High Turnover (Sit Down Restaurant)	17.0	1000sqft	4.00	17,307	17,424	—	—	—
Parking Lot	11.8	Acre	11.8	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.87	33.0	17.3	98.1	0.15	0.29	5.93	6.22	0.29	1.80	2.09	—	19,570	19,570	0.64	0.54	19.8	19,768
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.19	33.4	20.4	122	0.19	0.39	11.2	11.6	0.39	4.47	4.86	—	24,637	24,637	0.88	0.59	0.54	24,836

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.41	10.5	8.54	47.0	0.07	0.15	3.99	4.13	0.15	1.35	1.49	—	10,161	10,161	0.33	0.35	5.42	10,278
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.26	1.92	1.56	8.57	0.01	0.03	0.73	0.75	0.03	0.25	0.27	—	1,682	1,682	0.05	0.06	0.90	1,702

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	2.87	33.0	17.3	98.1	0.15	0.29	5.93	6.22	0.29	1.80	2.09	—	19,570	19,570	0.64	0.54	19.8	19,768
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	3.19	33.4	20.4	122	0.19	0.39	11.2	11.6	0.39	4.47	4.86	—	24,637	24,637	0.88	0.59	0.54	24,836
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	1.41	10.5	8.54	47.0	0.07	0.15	3.99	4.13	0.15	1.35	1.49	—	10,161	10,161	0.33	0.35	5.42	10,278
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.26	1.92	1.56	8.57	0.01	0.03	0.73	0.75	0.03	0.25	0.27	—	1,682	1,682	0.05	0.06	0.90	1,702

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.41	0.21	3.70	2.71	0.02	0.29	0.00	0.29	0.29	0.00	0.29	65.2	7,253	7,318	7.53	0.22	0.00	7,572
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.41	0.21	3.70	2.71	0.02	0.29	0.00	0.29	0.29	0.00	0.29	65.2	7,253	7,318	7.53	0.22	0.00	7,572
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.41	0.21	3.70	2.71	0.02	0.29	0.00	0.29	0.29	0.00	0.29	65.2	7,253	7,318	7.53	0.22	0.00	7,572
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.08	0.04	0.68	0.49	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	10.8	1,201	1,212	1.25	0.04	0.00	1,254

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.41	0.21	3.70	2.71	0.02	0.29	—	0.29	0.29	—	0.29	—	7,182	7,182	0.83	0.06	—	7,221
Water	—	—	—	—	—	—	—	—	—	—	—	65.2	71.3	137	6.70	0.16	—	352
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.41	0.21	3.70	2.71	0.02	0.29	0.00	0.29	0.29	0.00	0.29	65.2	7,253	7,318	7.53	0.22	0.00	7,572
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.41	0.21	3.70	2.71	0.02	0.29	—	0.29	0.29	—	0.29	—	7,182	7,182	0.83	0.06	—	7,221
Water	—	—	—	—	—	—	—	—	—	—	—	65.2	71.3	137	6.70	0.16	—	352
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.41	0.21	3.70	2.71	0.02	0.29	0.00	0.29	0.29	0.00	0.29	65.2	7,253	7,318	7.53	0.22	0.00	7,572
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.41	0.21	3.70	2.71	0.02	0.29	—	0.29	0.29	—	0.29	—	7,182	7,182	0.83	0.06	—	7,221
Water	—	—	—	—	—	—	—	—	—	—	—	65.2	71.3	137	6.70	0.16	—	352
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.41	0.21	3.70	2.71	0.02	0.29	0.00	0.29	0.29	0.00	0.29	65.2	7,253	7,318	7.53	0.22	0.00	7,572
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.08	0.04	0.68	0.49	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,189	1,189	0.14	0.01	—	1,195
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	11.8	22.6	1.11	0.03	—	58.2
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.08	0.04	0.68	0.49	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	10.8	1,201	1,212	1.25	0.04	0.00	1,254

3. Construction Emissions Details

3.1. Demolition (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.36	4.51	18.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.36	4.51	18.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.10	1.23	4.98	0.01	0.02	—	0.02	0.02	—	0.02	—	938	938	0.04	0.01	—	942
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.23	0.91	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	155	155	0.01	< 0.005	—	156
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.90	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	174	174	< 0.005	0.01	0.73	177
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.66	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	154	154	< 0.005	0.01	0.02	155
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.18	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	43.2	43.2	< 0.005	< 0.005	0.09	43.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.16	7.16	< 0.005	< 0.005	0.01	7.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Site Preparation (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement:	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.43	4.65	0.01	0.02	—	0.02	0.02	—	0.02	—	870	870	0.04	0.01	—	873
Dust From Material Movement:	—	—	—	—	—	—	0.84	0.84	—	0.43	0.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.85	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	144	144	0.01	< 0.005	—	145
Dust From Material Movement:	—	—	—	—	—	—	0.15	0.15	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.77	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	179	179	< 0.005	0.01	0.02	181
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	30.3	30.3	< 0.005	< 0.005	0.06	30.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	5.01	5.01	< 0.005	< 0.005	0.01	5.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.64	4.43	35.3	0.06	0.12	—	0.12	0.12	—	0.12	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.64	4.43	35.3	0.06	0.12	—	0.12	0.12	—	0.12	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement:	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.27	1.88	15.0	0.03	0.05	—	0.05	0.05	—	0.05	—	2,802	2,802	0.11	0.02	—	2,812
Dust From Material Movement:	—	—	—	—	—	—	1.02	1.02	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.34	2.74	< 0.005	0.01	—	0.01	0.01	—	0.01	—	464	464	0.02	< 0.005	—	465
Dust From Material Movement:	—	—	—	—	—	—	0.19	0.19	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	1.20	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	232	232	< 0.005	0.01	0.97	235

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	0.88	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	205	205	< 0.005	0.01	0.03	207
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.38	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	89.3	89.3	< 0.005	< 0.005	0.18	90.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	14.8	14.8	< 0.005	< 0.005	0.03	15.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.45	10.2	0.02	0.03	—	0.03	0.03	—	0.03	—	1,708	1,708	0.07	0.01	—	1,714
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.26	1.86	< 0.005	0.01	—	0.01	0.01	—	0.01	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.94	0.86	0.61	12.5	0.00	0.00	0.13	0.13	0.00	0.00	0.00	—	2,412	2,412	0.04	0.08	10.1	2,448
Vendor	0.09	0.08	2.90	0.74	0.01	0.03	0.11	0.13	0.03	0.04	0.07	—	2,031	2,031	0.02	0.31	5.22	2,128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.78	0.75	0.77	9.15	0.00	0.00	0.13	0.13	0.00	0.00	0.00	—	2,128	2,128	0.05	0.08	0.26	2,155
Vendor	0.09	0.07	3.12	0.78	0.01	0.03	0.11	0.13	0.03	0.04	0.07	—	2,031	2,031	0.02	0.31	0.14	2,123
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.55	0.53	0.49	6.66	0.00	0.00	0.09	0.09	0.00	0.00	0.00	—	1,558	1,558	0.03	0.06	3.13	1,580
Vendor	0.07	0.05	2.18	0.54	0.01	0.02	0.08	0.10	0.02	0.03	0.05	—	1,447	1,447	0.01	0.22	1.61	1,514
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.09	1.21	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	258	258	0.01	0.01	0.52	262
Vendor	0.01	0.01	0.40	0.10	< 0.005	< 0.005	0.01	0.02	< 0.005	0.01	0.01	—	239	239	< 0.005	0.04	0.27	251
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road Equipment	0.05	0.05	0.58	3.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	456	456	0.02	< 0.005	—	457
Paving	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	75.4	75.4	< 0.005	< 0.005	—	75.7
Paving	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.90	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	174	174	< 0.005	0.01	0.73	177
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.66	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	154	154	< 0.005	0.01	0.02	155
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.20	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	47.5	47.5	< 0.005	< 0.005	0.10	48.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.87	7.87	< 0.005	< 0.005	0.02	7.98

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	30.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	30.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.19	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	40.2	40.2	< 0.005	< 0.005	—	40.4

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Architectural Coatings	—	9.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.66	6.66	< 0.005	< 0.005	—	6.68
Architectural Coatings	—	1.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.12	2.50	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	482	482	0.01	0.02	2.03	490
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.15	1.83	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	426	426	0.01	0.02	0.05	431
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.56	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	132	132	< 0.005	0.01	0.26	134
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	21.8	21.8	< 0.005	< 0.005	0.04	22.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	21.4	21.4	< 0.005	< 0.005	—	21.6
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	231	231	0.04	< 0.005	—	233
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	294	294	0.05	0.01	—	297
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	262	262	0.04	0.01	—	265

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Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	238	238	0.04	< 0.005	—	241
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	138	138	0.02	< 0.005	—	140
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	108	108	0.02	< 0.005	—	109
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	755	755	0.12	0.01	—	762
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	388	388	0.06	0.01	—	392
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	252	252	0.04	< 0.005	—	254
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,688	2,688	0.43	0.05	—	2,715
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	21.4	21.4	< 0.005	< 0.005	—	21.6
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	231	231	0.04	< 0.005	—	233
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	294	294	0.05	0.01	—	297
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	262	262	0.04	0.01	—	265
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	238	238	0.04	< 0.005	—	241
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	138	138	0.02	< 0.005	—	140
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	108	108	0.02	< 0.005	—	109

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Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	755	755	0.12	0.01	—	762
High Turnover (Sit Down Restaurlart)	—	—	—	—	—	—	—	—	—	—	—	—	388	388	0.06	0.01	—	392
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	252	252	0.04	< 0.005	—	254
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,688	2,688	0.43	0.05	—	2,715
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	3.54	3.54	< 0.005	< 0.005	—	3.57
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	38.2	38.2	0.01	< 0.005	—	38.5
Condo/T ownhous e	—	—	—	—	—	—	—	—	—	—	—	—	48.7	48.7	0.01	< 0.005	—	49.2
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	43.4	43.4	0.01	< 0.005	—	43.9
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	39.4	39.4	0.01	< 0.005	—	39.8
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	22.9	22.9	< 0.005	< 0.005	—	23.1
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	17.9	17.9	< 0.005	< 0.005	—	18.1
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	125	125	0.02	< 0.005	—	126
High Turnover (Sit Down Restaurlart)	—	—	—	—	—	—	—	—	—	—	—	—	64.3	64.3	0.01	< 0.005	—	64.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	41.7	41.7	0.01	< 0.005	—	42.1

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	445	445	0.07	0.01	—	449
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	-----	-----	------	------	---	-----

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.1	49.1	< 0.005	< 0.005	—	49.3
Elementary School	0.11	0.06	1.04	0.88	0.01	0.08	—	0.08	0.08	—	0.08	—	1,246	1,246	0.11	< 0.005	—	1,250
Condo/Townhouse	0.07	0.03	0.60	0.25	< 0.005	0.05	—	0.05	0.05	—	0.05	—	759	759	0.07	< 0.005	—	761
Industrial Park	0.02	0.01	0.17	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	208	208	0.02	< 0.005	—	208
Single Family Housing	0.04	0.02	0.37	0.16	< 0.005	0.03	—	0.03	0.03	—	0.03	—	466	466	0.04	< 0.005	—	467
Office Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	109	109	0.01	< 0.005	—	110
Strip Mall	0.01	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	123	123	0.01	< 0.005	—	123
Discount Club	0.08	0.04	0.72	0.60	< 0.005	0.05	—	0.05	0.05	—	0.05	—	857	857	0.08	< 0.005	—	859
High Turnover (Sit Down Restaurant)	0.06	0.03	0.57	0.48	< 0.005	0.04	—	0.04	0.04	—	0.04	—	676	676	0.06	< 0.005	—	678
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

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Total	0.41	0.21	3.70	2.71	0.02	0.29	—	0.29	0.29	—	0.29	—	4,494	4,494	0.40	0.01	—	4,506
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.1	49.1	< 0.005	< 0.005	—	49.3
Element ary School	0.11	0.06	1.04	0.88	0.01	0.08	—	0.08	0.08	—	0.08	—	1,246	1,246	0.11	< 0.005	—	1,250
Condo/T ownhouse	0.07	0.03	0.60	0.25	< 0.005	0.05	—	0.05	0.05	—	0.05	—	759	759	0.07	< 0.005	—	761
Industrial Park	0.02	0.01	0.17	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	208	208	0.02	< 0.005	—	208
Single Family Housing	0.04	0.02	0.37	0.16	< 0.005	0.03	—	0.03	0.03	—	0.03	—	466	466	0.04	< 0.005	—	467
Office Park	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	109	109	0.01	< 0.005	—	110
Strip Mall	0.01	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	123	123	0.01	< 0.005	—	123
Discount Club	0.08	0.04	0.72	0.60	< 0.005	0.05	—	0.05	0.05	—	0.05	—	857	857	0.08	< 0.005	—	859
High Turnover (Sit Down Restaurart)	0.06	0.03	0.57	0.48	< 0.005	0.04	—	0.04	0.04	—	0.04	—	676	676	0.06	< 0.005	—	678
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.41	0.21	3.70	2.71	0.02	0.29	—	0.29	0.29	—	0.29	—	4,494	4,494	0.40	0.01	—	4,506
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.14	8.14	< 0.005	< 0.005	—	8.16

Elementary	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	206	206	0.02	< 0.005	—	207
Condo/Townhouse	0.01	0.01	0.11	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	126	126	0.01	< 0.005	—	126
Industrial Park	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.4	34.4	< 0.005	< 0.005	—	34.5
Single Family Housing	0.01	< 0.005	0.07	0.03	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.2	77.2	0.01	< 0.005	—	77.4
Office Park	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.1	18.1	< 0.005	< 0.005	—	18.2
Strip Mall	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.4	20.4	< 0.005	< 0.005	—	20.4
Discount Club	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	142	142	0.01	< 0.005	—	142
High Turnover (Sit Down Restaurant)	0.01	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	112	112	0.01	< 0.005	—	112
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.08	0.04	0.68	0.49	< 0.005	0.05	—	0.05	0.05	—	0.05	—	744	744	0.07	< 0.005	—	746

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Consumer	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1.77	1.63	3.40	0.18	< 0.005	—	9.25
Elementary School	—	—	—	—	—	—	—	—	—	—	—	5.00	7.38	12.4	0.51	0.01	—	28.9
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	6.42	6.31	12.7	0.66	0.02	—	33.9
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9.75	8.95	18.7	1.00	0.02	—	50.9
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3.15	10.3	13.4	0.32	0.01	—	23.9
Office Park	—	—	—	—	—	—	—	—	—	—	—	4.09	3.78	7.87	0.42	0.01	—	21.4
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	3.12	2.90	6.02	0.32	0.01	—	16.3
Discount Club	—	—	—	—	—	—	—	—	—	—	—	22.0	20.9	42.9	2.26	0.05	—	115
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	9.89	9.21	19.1	1.02	0.02	—	51.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.2	71.3	137	6.70	0.16	—	352
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1.77	1.63	3.40	0.18	< 0.005	—	9.25

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Element School	—	—	—	—	—	—	—	—	—	—	—	5.00	7.38	12.4	0.51	0.01	—	28.9
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	6.42	6.31	12.7	0.66	0.02	—	33.9
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	9.75	8.95	18.7	1.00	0.02	—	50.9
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3.15	10.3	13.4	0.32	0.01	—	23.9
Office Park	—	—	—	—	—	—	—	—	—	—	—	4.09	3.78	7.87	0.42	0.01	—	21.4
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	3.12	2.90	6.02	0.32	0.01	—	16.3
Discount Club	—	—	—	—	—	—	—	—	—	—	—	22.0	20.9	42.9	2.26	0.05	—	115
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	9.89	9.21	19.1	1.02	0.02	—	51.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.2	71.3	137	6.70	0.16	—	352
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.29	0.27	0.56	0.03	< 0.005	—	1.53
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.83	1.22	2.05	0.09	< 0.005	—	4.79
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	1.06	1.04	2.11	0.11	< 0.005	—	5.62
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1.61	1.48	3.10	0.17	< 0.005	—	8.42

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.52	1.70	2.23	0.05	< 0.005	—	3.96
Office Park	—	—	—	—	—	—	—	—	—	—	—	0.68	0.63	1.30	0.07	< 0.005	—	3.53
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.52	0.48	1.00	0.05	< 0.005	—	2.70
Discount Club	—	—	—	—	—	—	—	—	—	—	—	3.64	3.45	7.10	0.37	0.01	—	19.1
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1.64	1.53	3.16	0.17	< 0.005	—	8.56
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	11.8	22.6	1.11	0.03	—	58.2

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

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Industrial Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Discount Club	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
High Turnover (Sit Down Restaurart)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

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Office Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Discount Club	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
High Turnover (Sit Down Restaurart)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Discount Club	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

High Turnover (Sit Down Restaurart)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
-----------------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
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Demolition	Demolition	1/1/2023	5/21/2023	5.00	100	—
Site Preparation	Site Preparation	1/1/2023	3/26/2023	5.00	60.0	—
Grading	Grading	1/1/2023	8/4/2023	5.00	155	—
Building Construction	Building Construction	1/1/2023	12/31/2023	5.00	260	—
Paving	Paving	1/1/2023	6/3/2023	5.00	110	—
Architectural Coating	Architectural Coating	1/1/2023	6/3/2023	5.00	110	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45

Building Construction	Tractors/Loaders/Backh	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	14.3	LDA,LDT1,LDT2
Demolition	Vendor	—	8.80	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	208	14.3	LDA,LDT1,LDT2

Building Construction	Vendor	69.1	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	41.6	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	333,414	111,138	483,786	161,262	30,867

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	—	—
Site Preparation	—	—	90.0	0.00	—
Grading	—	—	465	0.00	—
Paving	0.00	0.00	0.00	0.00	12.4

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%
Elementary School	0.00	0%
Condo/Townhouse	—	0%
Industrial Park	0.00	0%
Single Family Housing	0.55	0%
Office Park	0.00	0%
Strip Mall	0.00	0%
Discount Club	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Parking Lot	11.8	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0

Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	0.00

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	0.00

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	38,211	204	0.0330	0.0040	153,355
Elementary School	412,488	204	0.0330	0.0040	3,888,737
Condo/Townhouse	526,235	204	0.0330	0.0040	2,368,434
Industrial Park	469,445	204	0.0330	0.0040	647,532

Single Family Housing	426,285	204	0.0330	0.0040	1,454,501
Office Park	247,699	204	0.0330	0.0040	341,665
Strip Mall	193,870	204	0.0330	0.0040	191,945
Discount Club	1,350,372	204	0.0330	0.0040	1,336,968
High Turnover (Sit Down Restaurant)	694,939	204	0.0330	0.0040	2,108,873
Parking Lot	450,653	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	925,000	10,987
Elementary School	2,609,723	3,118,378
Condo/Townhouse	3,352,375	490,031
Industrial Park	5,087,500	50,117
Single Family Housing	1,643,321	8,235,281
Office Park	2,132,805	55,605
Strip Mall	1,629,595	50,117
Discount Club	11,481,241	851,985
High Turnover (Sit Down Restaurant)	5,160,073	200,467
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	0.00	0.00

Elementary School	0.00	0.00
Condo/Townhouse	0.00	0.00
Industrial Park	0.00	0.00
Single Family Housing	0.00	0.00
Office Park	0.00	0.00
Strip Mall	0.00	0.00
Discount Club	0.00	0.00
High Turnover (Sit Down Restaurant)	0.00	0.00
Parking Lot	0.00	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
----------------	-----------------------------	------

Temperature and Extreme Heat	28.9	annual days of extreme heat
Extreme Precipitation	5.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	5.05	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	5	0	0	N/A
Extreme Precipitation	2	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	5	1	1	4
Extreme Precipitation	2	1	1	3
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	69.3
AQ-PM	10.4
AQ-DPM	41.3
Drinking Water	0.29
Lead Risk Housing	9.69

Pesticides	27.1
Toxic Releases	10.1
Traffic	40.6
Effect Indicators	—
CleanUp Sites	93.1
Groundwater	70.6
Haz Waste Facilities/Generators	61.6
Impaired Water Bodies	0.00
Solid Waste	42.3
Sensitive Population	—
Asthma	16.1
Cardio-vascular	47.9
Low Birth Weights	5.12
Socioeconomic Factor Indicators	—
Education	30.0
Housing	7.07
Linguistic	0.00
Poverty	18.4
Unemployment	26.9

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	87.87373284
Employed	36.78942641
Median HI	—

Education	—
Bachelor's or higher	64.48094444
High school enrollment	15.50109072
Preschool enrollment	56.79455922
Transportation	—
Auto Access	95.6242782
Active commuting	2.527909663
Social	—
2-parent households	44.88643655
Voting	86.84717054
Neighborhood	—
Alcohol availability	62.74862056
Park access	24.06005389
Retail density	30.50173232
Supermarket access	28.9747209
Tree canopy	92.05697421
Housing	—
Homeownership	79.23777749
Housing habitability	73.37354036
Low-inc homeowner severe housing cost burden	15.55241884
Low-inc renter severe housing cost burden	82.80508148
Uncrowded housing	90.74810728
Health Outcomes	—
Insured adults	66.05928397
Arthritis	0.0
Asthma ER Admissions	81.8
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	17.5
Cognitively Disabled	72.6
Physically Disabled	54.0
Heart Attack ER Admissions	75.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	88.7
Elderly	29.3
English Speaking	98.1
Foreign-born	1.4
Outdoor Workers	25.3

Climate Change Adaptive Capacity	—
Impervious Surface Cover	87.8
Traffic Density	50.9
Traffic Access	23.0
Other Indices	—
Hardship	30.4
Other Decision Support	—
2016 Voting	77.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	10.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Estimated maximum annual buildout of land uses anticipated under the 2040 General Plan.
Construction: Construction Phases	Adjusted durations if phase went beyond end of 2023 to only represent maximum annual scenario.
Operations: Hearths	Construction-only run, operations estimated separately.
Operations: Consumer Products	Construction-only run, operations estimated separately.
Operations: Architectural Coatings	Construction-only run, operations estimated separately.
Operations: Energy Use	Construction-only run, operations estimated separately.
Operations: Water and Waste Water	Construction-only run, operations estimated separately.
Operations: Refrigerants	Construction-only run, operations estimated separately.
Operations: Landscape Equipment	Construction-only run, operations estimated separately.
Operations: Solid Waste	Construction-only run, operations estimated separately.
Construction: Off-Road Equipments	Tier 4 final engines as mitigation.

Loomis 2040 General Plan - NEW Traffic Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Loomis 2040 General Plan - NEW Traffic
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	41.6
Location	38.8216185158405, -121.19371542576707
County	Placer-Sacramento
City	Loomis
Air District	Placer County APCD
Air Basin	Sacramento Valley
TAZ	436
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	33.8	1000sqft	2.00	33,760	8,712	—	—	—
Elementary School	90.0	1000sqft	28.0	90,000	121,968	121,968	—	—
Condo/Townhouse	680	Dwelling Unit	68.0	571,800	230,869	—	1,370	—

Industrial Park	205	1000sqft	9.00	204,720	39,204	—	—	—
Single Family Housing	330	Dwelling Unit	96.0	520,600	3,865,243	—	900	—
Office Park	108	1000sqft	3.25	108,020	30,492	—	—	—
Discount Club	155	1000sqft	17.0	155,000	74,052	—	—	—
High Turnover (Sit Down Restaurant)	158	1000sqft	35.0	157,960	152,461	—	—	—
Parking Lot	37.5	Acre	37.5	0.00	0.00	—	—	—
Strip Mall	203	1000sqft	0.75	203,100	52,272	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	323	348	52.0	867	1.78	54.1	36.5	90.5	53.3	6.47	59.8	8,284	120,584	128,868	267	4.86	369	137,351
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	306	332	56.1	713	1.69	54.0	36.5	90.5	53.2	6.47	59.7	8,284	111,763	120,047	267	5.21	321	128,596
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	114	154	48.6	463	1.13	13.5	36.5	49.9	13.3	6.47	19.8	3,749	110,990	114,738	253	4.81	341	122,843
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.9	28.1	8.88	84.6	0.21	2.46	6.66	9.12	2.43	1.18	3.61	621	18,376	18,996	41.9	0.80	56.4	20,338

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	53.5	50.5	27.6	377	0.93	0.42	36.5	36.9	0.39	6.47	6.87	—	94,058	94,058	3.02	3.67	49.6	95,277
Area	268	297	8.10	479	0.76	52.4	—	52.4	51.7	—	51.7	5,849	3,798	9,647	17.6	0.29	—	10,172
Energy	1.83	0.92	16.3	11.0	0.10	1.27	—	1.27	1.27	—	1.27	—	22,651	22,651	1.76	0.04	—	22,707
Water	—	—	—	—	—	—	—	—	—	—	—	354	77.1	431	36.3	0.86	—	1,595
Waste	—	—	—	—	—	—	—	—	—	—	—	2,081	0.00	2,081	208	0.00	—	7,280

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	319	319
Total	323	348	52.0	867	1.78	54.1	36.5	90.5	53.3	6.47	59.8	8,284	120,584	128,868	267	4.86	369	137,351
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	48.8	45.8	32.6	321	0.84	0.42	36.5	36.9	0.39	6.47	6.87	—	85,560	85,560	3.47	4.03	1.29	86,848
Area	255	285	7.22	380	0.75	52.3	—	52.3	51.6	—	51.6	5,849	3,474	9,323	17.6	0.29	—	9,848
Energy	1.83	0.92	16.3	11.0	0.10	1.27	—	1.27	1.27	—	1.27	—	22,651	22,651	1.76	0.04	—	22,707
Water	—	—	—	—	—	—	—	—	—	—	—	354	77.1	431	36.3	0.86	—	1,595
Waste	—	—	—	—	—	—	—	—	—	—	—	2,081	0.00	2,081	208	0.00	—	7,280
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	319	319
Total	306	332	56.1	713	1.69	54.0	36.5	90.5	53.2	6.47	59.7	8,284	111,763	120,047	267	5.21	321	128,596
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	49.0	46.0	30.3	318	0.86	0.42	36.5	36.9	0.39	6.47	6.87	—	87,321	87,321	3.24	3.85	21.4	88,570
Area	63.5	107	2.05	134	0.17	11.8	—	11.8	11.6	—	11.6	1,314	940	2,254	3.95	0.07	—	2,372
Energy	1.83	0.92	16.3	11.0	0.10	1.27	—	1.27	1.27	—	1.27	—	22,651	22,651	1.76	0.04	—	22,707
Water	—	—	—	—	—	—	—	—	—	—	—	354	77.1	431	36.3	0.86	—	1,595
Waste	—	—	—	—	—	—	—	—	—	—	—	2,081	0.00	2,081	208	0.00	—	7,280
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	319	319
Total	114	154	48.6	463	1.13	13.5	36.5	49.9	13.3	6.47	19.8	3,749	110,990	114,738	253	4.81	341	122,843
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.94	8.39	5.53	58.1	0.16	0.08	6.66	6.73	0.07	1.18	1.25	—	14,457	14,457	0.54	0.64	3.54	14,664
Area	11.6	19.5	0.37	24.5	0.03	2.15	—	2.15	2.12	—	2.12	218	156	373	0.65	0.01	—	393
Energy	0.33	0.17	2.97	2.01	0.02	0.23	—	0.23	0.23	—	0.23	—	3,750	3,750	0.29	0.01	—	3,759
Water	—	—	—	—	—	—	—	—	—	—	—	58.6	12.8	71.3	6.01	0.14	—	264
Waste	—	—	—	—	—	—	—	—	—	—	—	345	0.00	345	34.4	0.00	—	1,205
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52.9	52.9
Total	20.9	28.1	8.88	84.6	0.21	2.46	6.66	9.12	2.43	1.18	3.61	621	18,376	18,996	41.9	0.80	56.4	20,338

3. Construction Emissions Details

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	39.4	39.4	0.00	0.00	—	39.4
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	46.6	46.6	0.00	0.00	—	46.6
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	396	396	0.00	0.00	—	396
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	484	484	0.00	0.00	—	484
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	318	318	0.00	0.00	—	318

Office Park	—	—	—	—	—	—	—	—	—	—	—	—	255	255	0.00	0.00	—	255
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	152	152	0.00	0.00	—	152
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	716	716	0.00	0.00	—	716
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	161	161	0.00	0.00	—	161
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	200	200	0.00	0.00	—	200
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,768	2,768	0.00	0.00	—	2,768
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	39.4	39.4	0.00	0.00	—	39.4
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	46.6	46.6	0.00	0.00	—	46.6
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	396	396	0.00	0.00	—	396
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	484	484	0.00	0.00	—	484
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	318	318	0.00	0.00	—	318
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	255	255	0.00	0.00	—	255
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	152	152	0.00	0.00	—	152

High Turnover (Sit Down Restaurnart)	—	—	—	—	—	—	—	—	—	—	—	—	716	716	0.00	0.00	—	716
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	161	161	0.00	0.00	—	161
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	200	200	0.00	0.00	—	200
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,768	2,768	0.00	0.00	—	2,768
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	6.52	6.52	0.00	0.00	—	6.52
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	7.71	7.71	0.00	0.00	—	7.71
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	65.6	65.6	0.00	0.00	—	65.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	80.1	80.1	0.00	0.00	—	80.1
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	52.6	52.6	0.00	0.00	—	52.6
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	42.2	42.2	0.00	0.00	—	42.2
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	25.2	25.2	0.00	0.00	—	25.2
High Turnover (Sit Down Restaurnart)	—	—	—	—	—	—	—	—	—	—	—	—	119	119	0.00	0.00	—	119
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	26.7	26.7	0.00	0.00	—	26.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	33.1	33.1	0.00	0.00	—	33.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	458	458	0.00	0.00	—	458

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	449	449	0.04	< 0.005	—	450
Elementary School	0.11	0.06	1.04	0.88	0.01	0.08	—	0.08	0.08	—	0.08	—	1,246	1,246	0.11	< 0.005	—	1,250
Condo/Townhouse	0.47	0.23	3.99	1.70	0.03	0.32	—	0.32	0.32	—	0.32	—	5,060	5,060	0.45	0.01	—	5,074
Industrial Park	0.17	0.09	1.59	1.33	0.01	0.12	—	0.12	0.12	—	0.12	—	1,894	1,894	0.17	< 0.005	—	1,899
Single Family Housing	0.28	0.14	2.42	1.03	0.02	0.20	—	0.20	0.20	—	0.20	—	3,077	3,077	0.27	0.01	—	3,085
Office Park	0.09	0.05	0.84	0.70	0.01	0.06	—	0.06	0.06	—	0.06	—	999	999	0.09	< 0.005	—	1,002
Discount Club	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	428	428	0.04	< 0.005	—	430
High Turnover (Sit Down Restaurant)	0.57	0.28	5.17	4.34	0.03	0.39	—	0.39	0.39	—	0.39	—	6,169	6,169	0.55	0.01	—	6,186
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.05	0.03	0.47	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	561	561	0.05	< 0.005	—	563
Total	1.83	0.92	16.3	11.0	0.10	1.27	—	1.27	1.27	—	1.27	—	19,884	19,884	1.76	0.04	—	19,939

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	449	449	0.04	< 0.005	—	450
Elementary School	0.11	0.06	1.04	0.88	0.01	0.08	—	0.08	0.08	—	0.08	—	1,246	1,246	0.11	< 0.005	—	1,250
Condo/Townhouse	0.47	0.23	3.99	1.70	0.03	0.32	—	0.32	0.32	—	0.32	—	5,060	5,060	0.45	0.01	—	5,074
Industrial Park	0.17	0.09	1.59	1.33	0.01	0.12	—	0.12	0.12	—	0.12	—	1,894	1,894	0.17	< 0.005	—	1,899
Single Family Housing	0.28	0.14	2.42	1.03	0.02	0.20	—	0.20	0.20	—	0.20	—	3,077	3,077	0.27	0.01	—	3,085
Office Park	0.09	0.05	0.84	0.70	0.01	0.06	—	0.06	0.06	—	0.06	—	999	999	0.09	< 0.005	—	1,002
Discount Club	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	428	428	0.04	< 0.005	—	430
High Turnover (Sit Down Restaurant)	0.57	0.28	5.17	4.34	0.03	0.39	—	0.39	0.39	—	0.39	—	6,169	6,169	0.55	0.01	—	6,186
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.05	0.03	0.47	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	561	561	0.05	< 0.005	—	563
Total	1.83	0.92	16.3	11.0	0.10	1.27	—	1.27	1.27	—	1.27	—	19,884	19,884	1.76	0.04	—	19,939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	74.3	74.3	0.01	< 0.005	—	74.5

Elementary School	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	206	206	0.02	< 0.005	—	207
Condo/Townhouse	0.09	0.04	0.73	0.31	< 0.005	0.06	—	0.06	0.06	—	0.06	—	838	838	0.07	< 0.005	—	840
Industrial Park	0.03	0.02	0.29	0.24	< 0.005	0.02	—	0.02	0.02	—	0.02	—	314	314	0.03	< 0.005	—	314
Single Family Housing	0.05	0.03	0.44	0.19	< 0.005	0.04	—	0.04	0.04	—	0.04	—	509	509	0.05	< 0.005	—	511
Office Park	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	165	165	0.01	< 0.005	—	166
Discount Club	0.01	< 0.005	0.07	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.9	70.9	0.01	< 0.005	—	71.1
High Turnover (Sit Down Restaurant)	0.10	0.05	0.94	0.79	0.01	0.07	—	0.07	0.07	—	0.07	—	1,021	1,021	0.09	< 0.005	—	1,024
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	93.0	93.0	0.01	< 0.005	—	93.2
Total	0.33	0.17	2.97	2.01	0.02	0.23	—	0.23	0.23	—	0.23	—	3,292	3,292	0.29	0.01	—	3,301

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	255	237	7.22	380	0.75	52.3	—	52.3	51.6	—	51.6	5,849	3,474	9,323	17.6	0.29	—	9,848

Consum Products	—	43.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	3.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscap e Equipme nt	12.6	11.8	0.88	99.0	< 0.005	0.08	—	0.08	0.10	—	0.10	—	324	324	0.01	< 0.005	—	325
Total	268	297	8.10	479	0.76	52.4	—	52.4	51.7	—	51.7	5,849	3,798	9,647	17.6	0.29	—	10,172
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	255	237	7.22	380	0.75	52.3	—	52.3	51.6	—	51.6	5,849	3,474	9,323	17.6	0.29	—	9,848
Consum er Products	—	43.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	3.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	255	285	7.22	380	0.75	52.3	—	52.3	51.6	—	51.6	5,849	3,474	9,323	17.6	0.29	—	9,848
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	10.5	9.73	0.30	15.6	0.03	2.14	—	2.14	2.11	—	2.11	218	129	347	0.65	0.01	—	366
Consum er Products	—	8.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	0.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscap e Equipme nt	1.14	1.06	0.08	8.91	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.4	26.4	< 0.005	< 0.005	—	26.5
Total	11.6	19.5	0.37	24.5	0.03	2.15	—	2.15	2.12	—	2.12	218	156	373	0.65	0.01	—	393

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	15.0	2.78	17.7	1.53	0.04	—	66.9
Elementary School	—	—	—	—	—	—	—	—	—	—	—	5.00	1.49	6.49	0.51	0.01	—	22.9
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	42.8	8.49	51.3	4.39	0.10	—	192
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	90.7	16.8	108	9.30	0.22	—	406
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	20.8	13.7	34.5	2.13	0.05	—	103
Office Park	—	—	—	—	—	—	—	—	—	—	—	36.8	6.85	43.6	3.77	0.09	—	165
Discount Club	—	—	—	—	—	—	—	—	—	—	—	22.0	4.21	26.2	2.26	0.05	—	98.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	91.9	17.3	109	9.42	0.22	—	411
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.8	5.43	34.3	2.96	0.07	—	129

Total	—	—	—	—	—	—	—	—	—	—	—	354	77.1	431	36.3	0.86	—	1,595
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	15.0	2.78	17.7	1.53	0.04	—	66.9
Elementary School	—	—	—	—	—	—	—	—	—	—	—	5.00	1.49	6.49	0.51	0.01	—	22.9
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	42.8	8.49	51.3	4.39	0.10	—	192
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	90.7	16.8	108	9.30	0.22	—	406
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	20.8	13.7	34.5	2.13	0.05	—	103
Office Park	—	—	—	—	—	—	—	—	—	—	—	36.8	6.85	43.6	3.77	0.09	—	165
Discount Club	—	—	—	—	—	—	—	—	—	—	—	22.0	4.21	26.2	2.26	0.05	—	98.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	91.9	17.3	109	9.42	0.22	—	411
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.8	5.43	34.3	2.96	0.07	—	129
Total	—	—	—	—	—	—	—	—	—	—	—	354	77.1	431	36.3	0.86	—	1,595
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.48	0.46	2.94	0.25	0.01	—	11.1

Elementary	—	—	—	—	—	—	—	—	—	—	—	0.83	0.25	1.07	0.08	< 0.005	—	3.80
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	7.09	1.41	8.50	0.73	0.02	—	31.8
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	15.0	2.78	17.8	1.54	0.04	—	67.2
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3.44	2.27	5.71	0.35	0.01	—	17.0
Office Park	—	—	—	—	—	—	—	—	—	—	—	6.09	1.13	7.23	0.62	0.01	—	27.3
Discount Club	—	—	—	—	—	—	—	—	—	—	—	3.64	0.70	4.34	0.37	0.01	—	16.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	15.2	2.86	18.1	1.56	0.04	—	68.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.77	0.90	5.67	0.49	0.01	—	21.4
Total	—	—	—	—	—	—	—	—	—	—	—	58.6	12.8	71.3	6.01	0.14	—	264

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.25	0.00	—	78.9
Elementary School	—	—	—	—	—	—	—	—	—	—	—	63.1	0.00	63.1	6.30	0.00	—	221
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	209	0.00	209	20.9	0.00	—	732
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	137	0.00	137	13.7	0.00	—	479
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	108	0.00	108	10.8	0.00	—	377
Office Park	—	—	—	—	—	—	—	—	—	—	—	54.1	0.00	54.1	5.41	0.00	—	189
Discount Club	—	—	—	—	—	—	—	—	—	—	—	359	0.00	359	35.9	0.00	—	1,257
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1,013	0.00	1,013	101	0.00	—	3,544
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	115	0.00	115	11.5	0.00	—	402
Total	—	—	—	—	—	—	—	—	—	—	—	2,081	0.00	2,081	208	0.00	—	7,280
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.25	0.00	—	78.9
Elementary School	—	—	—	—	—	—	—	—	—	—	—	63.1	0.00	63.1	6.30	0.00	—	221

Condo/T	—	—	—	—	—	—	—	—	—	—	—	209	0.00	209	20.9	0.00	—	732
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	137	0.00	137	13.7	0.00	—	479
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	108	0.00	108	10.8	0.00	—	377
Office Park	—	—	—	—	—	—	—	—	—	—	—	54.1	0.00	54.1	5.41	0.00	—	189
Discount Club	—	—	—	—	—	—	—	—	—	—	—	359	0.00	359	35.9	0.00	—	1,257
High Turnover (Sit Down Restaurart)	—	—	—	—	—	—	—	—	—	—	—	1,013	0.00	1,013	101	0.00	—	3,544
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	115	0.00	115	11.5	0.00	—	402
Total	—	—	—	—	—	—	—	—	—	—	—	2,081	0.00	2,081	208	0.00	—	7,280
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	3.74	0.00	3.74	0.37	0.00	—	13.1
Element ary School	—	—	—	—	—	—	—	—	—	—	—	10.4	0.00	10.4	1.04	0.00	—	36.5
Condo/T ownhous e	—	—	—	—	—	—	—	—	—	—	—	34.6	0.00	34.6	3.46	0.00	—	121
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	22.7	0.00	22.7	2.26	0.00	—	79.2
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	17.9	0.00	17.9	1.79	0.00	—	62.5
Office Park	—	—	—	—	—	—	—	—	—	—	—	8.96	0.00	8.96	0.90	0.00	—	31.4

Discount Club	—	—	—	—	—	—	—	—	—	—	—	59.5	0.00	59.5	5.94	0.00	—	208
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	168	0.00	168	16.8	0.00	—	587
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	19.0	0.00	19.0	1.90	0.00	—	66.6
Total	—	—	—	—	—	—	—	—	—	—	—	345	0.00	345	34.4	0.00	—	1,205

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.79	8.79
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.35	0.35
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.10	4.10
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53.3	53.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.73	3.73

Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.74	0.74
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	247	247
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.26	1.26
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	319	319
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.79	8.79
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.35	0.35
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.10	4.10
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53.3	53.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.73	3.73
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.74	0.74
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	247	247

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.26	1.26
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	319	319
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.45	1.45
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.06
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.68	0.68
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.82	8.82
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.62	0.62
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40.9	40.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21	0.21
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52.9	52.9

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
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5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
------------	--	--	--	--	-----------------------------

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
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5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%
Elementary School	0.00	0%
Condo/Townhouse	—	0%
Industrial Park	0.00	0%
Single Family Housing	3.64	0%
Office Park	0.00	0%
Discount Club	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Parking Lot	37.5	100%
Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
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5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	19,640	19,640	19,640	7,168,600	131,440	131,440	131,440	47,975,600

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	204
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	476
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Single Family Housing	—
Wood Fireplaces	50
Gas Fireplaces	165
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	116
Conventional Wood Stoves	17
Catalytic Wood Stoves	17
Non-Catalytic Wood Stoves	17
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
2212110	737,370	1,428,840	476,280	97,879

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	348,739	41.2	0.0000	0.0000	1,399,643
Elementary School	412,488	41.2	0.0000	0.0000	3,888,737
Condo/Townhouse	3,508,230	41.2	0.0000	0.0000	15,789,563
Industrial Park	4,284,654	41.2	0.0000	0.0000	5,910,066
Single Family Housing	2,813,484	41.2	0.0000	0.0000	9,599,708
Office Park	2,260,787	41.2	0.0000	0.0000	3,118,432
Discount Club	1,350,372	41.2	0.0000	0.0000	1,336,968
High Turnover (Sit Down Restaurant)	6,342,666	41.2	0.0000	0.0000	19,247,563
Parking Lot	1,429,038	41.2	0.0000	0.0000	0.00
Strip Mall	1,769,422	41.2	0.0000	0.0000	1,751,860

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	7,807,000	100,234

Elementary School	2,609,723	3,118,378
Condo/Townhouse	22,349,169	3,246,468
Industrial Park	47,341,500	451,051
Single Family Housing	10,845,920	54,352,846
Office Park	19,198,799	350,817
Discount Club	11,481,241	851,985
High Turnover (Sit Down Restaurant)	47,946,185	1,754,099
Parking Lot	0.00	0.00
Strip Mall	15,044,129	601,401

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	41.9	0.00
Elementary School	117	0.00
Condo/Townhouse	193	0.00
Industrial Park	254	0.00
Single Family Housing	73.4	0.00
Office Park	100	0.00
Discount Club	667	0.00
High Turnover (Sit Down Restaurant)	1,880	0.00
Parking Lot	0.00	0.00
Strip Mall	213	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Discount Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Discount Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
----------------	-----------

—	—
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	28.9	annual days of extreme heat
Extreme Precipitation	5.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth

Wildfire	5.05	annual hectares burned
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Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	5	0	0	N/A
Extreme Precipitation	2	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	5	1	1	4

Extreme Precipitation	2	1	1	3
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	69.3
AQ-PM	10.4
AQ-DPM	41.3
Drinking Water	0.29
Lead Risk Housing	9.69
Pesticides	27.1
Toxic Releases	10.1
Traffic	40.6

Effect Indicators	—
CleanUp Sites	93.1
Groundwater	70.6
Haz Waste Facilities/Generators	61.6
Impaired Water Bodies	0.00
Solid Waste	42.3
Sensitive Population	—
Asthma	16.1
Cardio-vascular	47.9
Low Birth Weights	5.12
Socioeconomic Factor Indicators	—
Education	30.0
Housing	7.07
Linguistic	0.00
Poverty	18.4
Unemployment	26.9

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	87.87373284
Employed	36.78942641
Median HI	71.48723213
Education	—
Bachelor's or higher	64.48094444
High school enrollment	15.50109072

Preschool enrollment	56.79455922
Transportation	—
Auto Access	95.6242782
Active commuting	2.527909663
Social	—
2-parent households	44.88643655
Voting	86.84717054
Neighborhood	—
Alcohol availability	62.74862056
Park access	24.06005389
Retail density	30.50173232
Supermarket access	28.9747209
Tree canopy	92.05697421
Housing	—
Homeownership	79.23777749
Housing habitability	73.37354036
Low-inc homeowner severe housing cost burden	15.55241884
Low-inc renter severe housing cost burden	82.80508148
Uncrowded housing	90.74810728
Health Outcomes	—
Insured adults	66.05928397
Arthritis	0.0
Asthma ER Admissions	81.8
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0

Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	17.5
Cognitively Disabled	72.6
Physically Disabled	54.0
Heart Attack ER Admissions	75.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	88.7
Elderly	29.3
English Speaking	98.1
Foreign-born	1.4
Outdoor Workers	25.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	87.8
Traffic Density	50.9

Traffic Access	23.0
Other Indices	—
Hardship	30.4
Other Decision Support	—
2016 Voting	77.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	10.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on Land Use Diagram
Construction: Construction Phases	Operational only run

Characteristics: Utility Information

Projected 2040 intensity factor for PG&E

Loomis 2040 General Plan - TOTAL Traffic Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Loomis 2040 General Plan - TOTAL Traffic
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	41.6
Location	38.8216185158405, -121.19371542576707
County	Placer-Sacramento
City	Loomis
Air District	Placer County APCD
Air Basin	Sacramento Valley
TAZ	436
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	33.8	1000sqft	2.00	33,760	8,712	—	—	—
Elementary School	90.0	1000sqft	28.0	90,000	121,968	121,968	—	—
Condo/Townhouse	680	Dwelling Unit	68.0	571,800	230,869	—	1,370	—

Industrial Park	205	1000sqft	9.00	204,720	39,204	—	—	—
Single Family Housing	330	Dwelling Unit	96.0	520,600	3,865,243	—	900	—
Office Park	108	1000sqft	3.25	108,020	30,492	—	—	—
Discount Club	155	1000sqft	17.0	155,000	74,052	—	—	—
High Turnover (Sit Down Restaurant)	158	1000sqft	35.0	157,960	152,461	—	—	—
Parking Lot	37.5	Acre	37.5	0.00	0.00	—	—	—
Strip Mall	203	1000sqft	0.75	203,100	52,272	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	460	478	123	1,836	4.16	55.1	130	185	54.3	23.1	77.4	8,284	362,211	370,495	274	14.3	496	382,113
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	431	450	140	1,539	3.86	55.1	130	185	54.2	23.1	77.3	8,284	331,562	339,846	276	15.6	324	351,706
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	240	272	127	1,281	3.34	14.5	130	145	14.3	23.1	37.4	3,749	335,311	339,060	262	14.7	396	350,375
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	43.9	49.7	23.1	234	0.61	2.65	23.8	26.4	2.61	4.22	6.83	621	55,515	56,135	43.3	2.43	65.5	58,009

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	191	181	98.7	1,346	3.30	1.49	130	132	1.40	23.1	24.5	—	335,685	335,685	10.8	13.1	177	340,039
Area	268	297	8.10	479	0.76	52.4	—	52.4	51.7	—	51.7	5,849	3,798	9,647	17.6	0.29	—	10,172
Energy	1.83	0.92	16.3	11.0	0.10	1.27	—	1.27	1.27	—	1.27	—	22,651	22,651	1.76	0.04	—	22,707
Water	—	—	—	—	—	—	—	—	—	—	—	354	77.1	431	36.3	0.86	—	1,595
Waste	—	—	—	—	—	—	—	—	—	—	—	2,081	0.00	2,081	208	0.00	—	7,280

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Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	319	319
Total	460	478	123	1,836	4.16	55.1	130	185	54.3	23.1	77.4	8,284	362,211	370,495	274	14.3	496	382,113
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	174	164	116	1,148	3.00	1.49	130	132	1.40	23.1	24.5	—	305,359	305,359	12.4	14.4	4.59	309,957
Area	255	285	7.22	380	0.75	52.3	—	52.3	51.6	—	51.6	5,849	3,474	9,323	17.6	0.29	—	9,848
Energy	1.83	0.92	16.3	11.0	0.10	1.27	—	1.27	1.27	—	1.27	—	22,651	22,651	1.76	0.04	—	22,707
Water	—	—	—	—	—	—	—	—	—	—	—	354	77.1	431	36.3	0.86	—	1,595
Waste	—	—	—	—	—	—	—	—	—	—	—	2,081	0.00	2,081	208	0.00	—	7,280
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	319	319
Total	431	450	140	1,539	3.86	55.1	130	185	54.2	23.1	77.3	8,284	331,562	339,846	276	15.6	324	351,706
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	175	164	108	1,136	3.06	1.49	130	132	1.40	23.1	24.5	—	311,643	311,643	11.6	13.7	76.4	316,101
Area	63.5	107	2.05	134	0.17	11.8	—	11.8	11.6	—	11.6	1,314	940	2,254	3.95	0.07	—	2,372
Energy	1.83	0.92	16.3	11.0	0.10	1.27	—	1.27	1.27	—	1.27	—	22,651	22,651	1.76	0.04	—	22,707
Water	—	—	—	—	—	—	—	—	—	—	—	354	77.1	431	36.3	0.86	—	1,595
Waste	—	—	—	—	—	—	—	—	—	—	—	2,081	0.00	2,081	208	0.00	—	7,280
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	319	319
Total	240	272	127	1,281	3.34	14.5	130	145	14.3	23.1	37.4	3,749	335,311	339,060	262	14.7	396	350,375
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	31.9	30.0	19.8	207	0.56	0.27	23.8	24.0	0.25	4.22	4.47	—	51,596	51,596	1.91	2.27	12.6	52,334
Area	11.6	19.5	0.37	24.5	0.03	2.15	—	2.15	2.12	—	2.12	218	156	373	0.65	0.01	—	393
Energy	0.33	0.17	2.97	2.01	0.02	0.23	—	0.23	0.23	—	0.23	—	3,750	3,750	0.29	0.01	—	3,759
Water	—	—	—	—	—	—	—	—	—	—	—	58.6	12.8	71.3	6.01	0.14	—	264
Waste	—	—	—	—	—	—	—	—	—	—	—	345	0.00	345	34.4	0.00	—	1,205
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52.9	52.9
Total	43.9	49.7	23.1	234	0.61	2.65	23.8	26.4	2.61	4.22	6.83	621	55,515	56,135	43.3	2.43	65.5	58,009

3. Construction Emissions Details

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	39.4	39.4	0.00	0.00	—	39.4
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	46.6	46.6	0.00	0.00	—	46.6
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	396	396	0.00	0.00	—	396
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	484	484	0.00	0.00	—	484
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	318	318	0.00	0.00	—	318

Office Park	—	—	—	—	—	—	—	—	—	—	—	—	255	255	0.00	0.00	—	255
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	152	152	0.00	0.00	—	152
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	716	716	0.00	0.00	—	716
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	161	161	0.00	0.00	—	161
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	200	200	0.00	0.00	—	200
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,768	2,768	0.00	0.00	—	2,768
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	39.4	39.4	0.00	0.00	—	39.4
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	46.6	46.6	0.00	0.00	—	46.6
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	396	396	0.00	0.00	—	396
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	484	484	0.00	0.00	—	484
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	318	318	0.00	0.00	—	318
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	255	255	0.00	0.00	—	255
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	152	152	0.00	0.00	—	152

High Turnover (Sit Down Restaurart)	—	—	—	—	—	—	—	—	—	—	—	—	716	716	0.00	0.00	—	716
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	161	161	0.00	0.00	—	161
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	200	200	0.00	0.00	—	200
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,768	2,768	0.00	0.00	—	2,768
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	6.52	6.52	0.00	0.00	—	6.52
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	7.71	7.71	0.00	0.00	—	7.71
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	65.6	65.6	0.00	0.00	—	65.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	80.1	80.1	0.00	0.00	—	80.1
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	52.6	52.6	0.00	0.00	—	52.6
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	42.2	42.2	0.00	0.00	—	42.2
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	25.2	25.2	0.00	0.00	—	25.2
High Turnover (Sit Down Restaurart)	—	—	—	—	—	—	—	—	—	—	—	—	119	119	0.00	0.00	—	119
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	26.7	26.7	0.00	0.00	—	26.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	33.1	33.1	0.00	0.00	—	33.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	458	458	0.00	0.00	—	458

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	449	449	0.04	< 0.005	—	450
Elementary School	0.11	0.06	1.04	0.88	0.01	0.08	—	0.08	0.08	—	0.08	—	1,246	1,246	0.11	< 0.005	—	1,250
Condo/Townhouse	0.47	0.23	3.99	1.70	0.03	0.32	—	0.32	0.32	—	0.32	—	5,060	5,060	0.45	0.01	—	5,074
Industrial Park	0.17	0.09	1.59	1.33	0.01	0.12	—	0.12	0.12	—	0.12	—	1,894	1,894	0.17	< 0.005	—	1,899
Single Family Housing	0.28	0.14	2.42	1.03	0.02	0.20	—	0.20	0.20	—	0.20	—	3,077	3,077	0.27	0.01	—	3,085
Office Park	0.09	0.05	0.84	0.70	0.01	0.06	—	0.06	0.06	—	0.06	—	999	999	0.09	< 0.005	—	1,002
Discount Club	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	428	428	0.04	< 0.005	—	430
High Turnover (Sit Down Restaurant)	0.57	0.28	5.17	4.34	0.03	0.39	—	0.39	0.39	—	0.39	—	6,169	6,169	0.55	0.01	—	6,186
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.05	0.03	0.47	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	561	561	0.05	< 0.005	—	563
Total	1.83	0.92	16.3	11.0	0.10	1.27	—	1.27	1.27	—	1.27	—	19,884	19,884	1.76	0.04	—	19,939

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	449	449	0.04	< 0.005	—	450
Elementary School	0.11	0.06	1.04	0.88	0.01	0.08	—	0.08	0.08	—	0.08	—	1,246	1,246	0.11	< 0.005	—	1,250
Condo/Townhouse	0.47	0.23	3.99	1.70	0.03	0.32	—	0.32	0.32	—	0.32	—	5,060	5,060	0.45	0.01	—	5,074
Industrial Park	0.17	0.09	1.59	1.33	0.01	0.12	—	0.12	0.12	—	0.12	—	1,894	1,894	0.17	< 0.005	—	1,899
Single Family Housing	0.28	0.14	2.42	1.03	0.02	0.20	—	0.20	0.20	—	0.20	—	3,077	3,077	0.27	0.01	—	3,085
Office Park	0.09	0.05	0.84	0.70	0.01	0.06	—	0.06	0.06	—	0.06	—	999	999	0.09	< 0.005	—	1,002
Discount Club	0.04	0.02	0.36	0.30	< 0.005	0.03	—	0.03	0.03	—	0.03	—	428	428	0.04	< 0.005	—	430
High Turnover (Sit Down Restaurant)	0.57	0.28	5.17	4.34	0.03	0.39	—	0.39	0.39	—	0.39	—	6,169	6,169	0.55	0.01	—	6,186
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.05	0.03	0.47	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	561	561	0.05	< 0.005	—	563
Total	1.83	0.92	16.3	11.0	0.10	1.27	—	1.27	1.27	—	1.27	—	19,884	19,884	1.76	0.04	—	19,939
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	74.3	74.3	0.01	< 0.005	—	74.5

Elementary School	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	206	206	0.02	< 0.005	—	207
Condo/Townhouse	0.09	0.04	0.73	0.31	< 0.005	0.06	—	0.06	0.06	—	0.06	—	838	838	0.07	< 0.005	—	840
Industrial Park	0.03	0.02	0.29	0.24	< 0.005	0.02	—	0.02	0.02	—	0.02	—	314	314	0.03	< 0.005	—	314
Single Family Housing	0.05	0.03	0.44	0.19	< 0.005	0.04	—	0.04	0.04	—	0.04	—	509	509	0.05	< 0.005	—	511
Office Park	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	165	165	0.01	< 0.005	—	166
Discount Club	0.01	< 0.005	0.07	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.9	70.9	0.01	< 0.005	—	71.1
High Turnover (Sit Down Restaurant)	0.10	0.05	0.94	0.79	0.01	0.07	—	0.07	0.07	—	0.07	—	1,021	1,021	0.09	< 0.005	—	1,024
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	93.0	93.0	0.01	< 0.005	—	93.2
Total	0.33	0.17	2.97	2.01	0.02	0.23	—	0.23	0.23	—	0.23	—	3,292	3,292	0.29	0.01	—	3,301

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	255	237	7.22	380	0.75	52.3	—	52.3	51.6	—	51.6	5,849	3,474	9,323	17.6	0.29	—	9,848

Consum Products	—	43.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	3.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscap e Equipme nt	12.6	11.8	0.88	99.0	< 0.005	0.08	—	0.08	0.10	—	0.10	—	324	324	0.01	< 0.005	—	325
Total	268	297	8.10	479	0.76	52.4	—	52.4	51.7	—	51.7	5,849	3,798	9,647	17.6	0.29	—	10,172
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	255	237	7.22	380	0.75	52.3	—	52.3	51.6	—	51.6	5,849	3,474	9,323	17.6	0.29	—	9,848
Consum er Products	—	43.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	3.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	255	285	7.22	380	0.75	52.3	—	52.3	51.6	—	51.6	5,849	3,474	9,323	17.6	0.29	—	9,848
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	10.5	9.73	0.30	15.6	0.03	2.14	—	2.14	2.11	—	2.11	218	129	347	0.65	0.01	—	366
Consum er Products	—	8.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	0.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscap e Equipme nt	1.14	1.06	0.08	8.91	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.4	26.4	< 0.005	< 0.005	—	26.5
Total	11.6	19.5	0.37	24.5	0.03	2.15	—	2.15	2.12	—	2.12	218	156	373	0.65	0.01	—	393

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	15.0	2.78	17.7	1.53	0.04	—	66.9
Elementary School	—	—	—	—	—	—	—	—	—	—	—	5.00	1.49	6.49	0.51	0.01	—	22.9
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	42.8	8.49	51.3	4.39	0.10	—	192
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	90.7	16.8	108	9.30	0.22	—	406
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	20.8	13.7	34.5	2.13	0.05	—	103
Office Park	—	—	—	—	—	—	—	—	—	—	—	36.8	6.85	43.6	3.77	0.09	—	165
Discount Club	—	—	—	—	—	—	—	—	—	—	—	22.0	4.21	26.2	2.26	0.05	—	98.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	91.9	17.3	109	9.42	0.22	—	411
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.8	5.43	34.3	2.96	0.07	—	129

Total	—	—	—	—	—	—	—	—	—	—	—	354	77.1	431	36.3	0.86	—	1,595
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	15.0	2.78	17.7	1.53	0.04	—	66.9
Elementary School	—	—	—	—	—	—	—	—	—	—	—	5.00	1.49	6.49	0.51	0.01	—	22.9
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	42.8	8.49	51.3	4.39	0.10	—	192
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	90.7	16.8	108	9.30	0.22	—	406
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	20.8	13.7	34.5	2.13	0.05	—	103
Office Park	—	—	—	—	—	—	—	—	—	—	—	36.8	6.85	43.6	3.77	0.09	—	165
Discount Club	—	—	—	—	—	—	—	—	—	—	—	22.0	4.21	26.2	2.26	0.05	—	98.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	91.9	17.3	109	9.42	0.22	—	411
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.8	5.43	34.3	2.96	0.07	—	129
Total	—	—	—	—	—	—	—	—	—	—	—	354	77.1	431	36.3	0.86	—	1,595
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.48	0.46	2.94	0.25	0.01	—	11.1

Elementary	—	—	—	—	—	—	—	—	—	—	—	0.83	0.25	1.07	0.08	< 0.005	—	3.80
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	7.09	1.41	8.50	0.73	0.02	—	31.8
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	15.0	2.78	17.8	1.54	0.04	—	67.2
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	3.44	2.27	5.71	0.35	0.01	—	17.0
Office Park	—	—	—	—	—	—	—	—	—	—	—	6.09	1.13	7.23	0.62	0.01	—	27.3
Discount Club	—	—	—	—	—	—	—	—	—	—	—	3.64	0.70	4.34	0.37	0.01	—	16.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	15.2	2.86	18.1	1.56	0.04	—	68.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.77	0.90	5.67	0.49	0.01	—	21.4
Total	—	—	—	—	—	—	—	—	—	—	—	58.6	12.8	71.3	6.01	0.14	—	264

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.25	0.00	—	78.9
Elementary School	—	—	—	—	—	—	—	—	—	—	—	63.1	0.00	63.1	6.30	0.00	—	221
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	209	0.00	209	20.9	0.00	—	732
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	137	0.00	137	13.7	0.00	—	479
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	108	0.00	108	10.8	0.00	—	377
Office Park	—	—	—	—	—	—	—	—	—	—	—	54.1	0.00	54.1	5.41	0.00	—	189
Discount Club	—	—	—	—	—	—	—	—	—	—	—	359	0.00	359	35.9	0.00	—	1,257
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	1,013	0.00	1,013	101	0.00	—	3,544
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	115	0.00	115	11.5	0.00	—	402
Total	—	—	—	—	—	—	—	—	—	—	—	2,081	0.00	2,081	208	0.00	—	7,280
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.25	0.00	—	78.9
Elementary School	—	—	—	—	—	—	—	—	—	—	—	63.1	0.00	63.1	6.30	0.00	—	221

Condo/T	—	—	—	—	—	—	—	—	—	—	—	209	0.00	209	20.9	0.00	—	732
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	137	0.00	137	13.7	0.00	—	479
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	108	0.00	108	10.8	0.00	—	377
Office Park	—	—	—	—	—	—	—	—	—	—	—	54.1	0.00	54.1	5.41	0.00	—	189
Discount Club	—	—	—	—	—	—	—	—	—	—	—	359	0.00	359	35.9	0.00	—	1,257
High Turnover (Sit Down Restaurart)	—	—	—	—	—	—	—	—	—	—	—	1,013	0.00	1,013	101	0.00	—	3,544
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	115	0.00	115	11.5	0.00	—	402
Total	—	—	—	—	—	—	—	—	—	—	—	2,081	0.00	2,081	208	0.00	—	7,280
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	3.74	0.00	3.74	0.37	0.00	—	13.1
Element ary School	—	—	—	—	—	—	—	—	—	—	—	10.4	0.00	10.4	1.04	0.00	—	36.5
Condo/T ownhous e	—	—	—	—	—	—	—	—	—	—	—	34.6	0.00	34.6	3.46	0.00	—	121
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	22.7	0.00	22.7	2.26	0.00	—	79.2
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	17.9	0.00	17.9	1.79	0.00	—	62.5
Office Park	—	—	—	—	—	—	—	—	—	—	—	8.96	0.00	8.96	0.90	0.00	—	31.4

Discount Club	—	—	—	—	—	—	—	—	—	—	—	59.5	0.00	59.5	5.94	0.00	—	208
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	168	0.00	168	16.8	0.00	—	587
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	19.0	0.00	19.0	1.90	0.00	—	66.6
Total	—	—	—	—	—	—	—	—	—	—	—	345	0.00	345	34.4	0.00	—	1,205

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.79	8.79
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.35	0.35
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.10	4.10
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53.3	53.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.73	3.73

Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.74	0.74
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	247	247
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.26	1.26
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	319	319
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.79	8.79
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.35	0.35
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.10	4.10
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53.3	53.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.73	3.73
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.74	0.74
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	247	247

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.26	1.26
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	319	319
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.45	1.45
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.06
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.68	0.68
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.82	8.82
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.62	0.62
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40.9	40.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21	0.21
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52.9	52.9

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
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5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
------------	--	--	--	--	-----------------------------

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
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5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%
Elementary School	0.00	0%
Condo/Townhouse	—	0%
Industrial Park	0.00	0%
Single Family Housing	3.64	0%
Office Park	0.00	0%
Discount Club	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Parking Lot	37.5	100%
Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
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5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	70,197	70,197	70,197	25,621,905	469,076	469,076	469,076	171,212,740

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	204
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	476
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Single Family Housing	—
Wood Fireplaces	50
Gas Fireplaces	165
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	116
Conventional Wood Stoves	17
Catalytic Wood Stoves	17
Non-Catalytic Wood Stoves	17
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
2212110	737,370	1,428,840	476,280	97,879

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	348,739	41.2	0.0000	0.0000	1,399,643
Elementary School	412,488	41.2	0.0000	0.0000	3,888,737
Condo/Townhouse	3,508,230	41.2	0.0000	0.0000	15,789,563
Industrial Park	4,284,654	41.2	0.0000	0.0000	5,910,066
Single Family Housing	2,813,484	41.2	0.0000	0.0000	9,599,708
Office Park	2,260,787	41.2	0.0000	0.0000	3,118,432
Discount Club	1,350,372	41.2	0.0000	0.0000	1,336,968
High Turnover (Sit Down Restaurant)	6,342,666	41.2	0.0000	0.0000	19,247,563
Parking Lot	1,429,038	41.2	0.0000	0.0000	0.00
Strip Mall	1,769,422	41.2	0.0000	0.0000	1,751,860

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	7,807,000	100,234

Elementary School	2,609,723	3,118,378
Condo/Townhouse	22,349,169	3,246,468
Industrial Park	47,341,500	451,051
Single Family Housing	10,845,920	54,352,846
Office Park	19,198,799	350,817
Discount Club	11,481,241	851,985
High Turnover (Sit Down Restaurant)	47,946,185	1,754,099
Parking Lot	0.00	0.00
Strip Mall	15,044,129	601,401

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	41.9	0.00
Elementary School	117	0.00
Condo/Townhouse	193	0.00
Industrial Park	254	0.00
Single Family Housing	73.4	0.00
Office Park	100	0.00
Discount Club	667	0.00
High Turnover (Sit Down Restaurant)	1,880	0.00
Parking Lot	0.00	0.00
Strip Mall	213	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Discount Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Discount Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	28.9	annual days of extreme heat
Extreme Precipitation	5.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth

Wildfire	5.05	annual hectares burned
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Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	5	0	0	N/A
Extreme Precipitation	2	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	5	1	1	4

Extreme Precipitation	2	1	1	3
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	69.3
AQ-PM	10.4
AQ-DPM	41.3
Drinking Water	0.29
Lead Risk Housing	9.69
Pesticides	27.1
Toxic Releases	10.1
Traffic	40.6

Effect Indicators	—
CleanUp Sites	93.1
Groundwater	70.6
Haz Waste Facilities/Generators	61.6
Impaired Water Bodies	0.00
Solid Waste	42.3
Sensitive Population	—
Asthma	16.1
Cardio-vascular	47.9
Low Birth Weights	5.12
Socioeconomic Factor Indicators	—
Education	30.0
Housing	7.07
Linguistic	0.00
Poverty	18.4
Unemployment	26.9

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	87.87373284
Employed	36.78942641
Median HI	71.48723213
Education	—
Bachelor's or higher	64.48094444
High school enrollment	15.50109072

Preschool enrollment	56.79455922
Transportation	—
Auto Access	95.6242782
Active commuting	2.527909663
Social	—
2-parent households	44.88643655
Voting	86.84717054
Neighborhood	—
Alcohol availability	62.74862056
Park access	24.06005389
Retail density	30.50173232
Supermarket access	28.9747209
Tree canopy	92.05697421
Housing	—
Homeownership	79.23777749
Housing habitability	73.37354036
Low-inc homeowner severe housing cost burden	15.55241884
Low-inc renter severe housing cost burden	82.80508148
Uncrowded housing	90.74810728
Health Outcomes	—
Insured adults	66.05928397
Arthritis	0.0
Asthma ER Admissions	81.8
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0

Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	17.5
Cognitively Disabled	72.6
Physically Disabled	54.0
Heart Attack ER Admissions	75.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	88.7
Elderly	29.3
English Speaking	98.1
Foreign-born	1.4
Outdoor Workers	25.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	87.8
Traffic Density	50.9

Traffic Access	23.0
Other Indices	—
Hardship	30.4
Other Decision Support	—
2016 Voting	77.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	10.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on Land Use Diagram
Construction: Construction Phases	Operational only run

Characteristics: Utility Information

Projected 2040 intensity factor for PG&E

Town of Loomis Proposed General Plan Update
Energy Calculations

Operational Energy Consumption

Estimated Annual Operational Energy Demand

Energy Demand by Land Use (CalEEMod output data)

Land Use	Electricity Demand (kWh/yr)	Natural Gas Demand (kBtu/year)	Diesel Demand (kBtu/year)
General Light Industry	348,739	1,399,643	-
Elementary School	412,488	3,888,737	-
Condo/Townhouse	3,508,230	15,789,563	-
Industrial Park	4,284,654	5,910,066	-
Single Family Housing	2,813,484	9,599,708	-
Office Park	2,260,787	3,118,432	-
Discount Club	1,350,372	1,336,968	-
High Turnover (Sit Down Restaurant)	6,342,666	19,247,563	-
Parking Lot	1,429,038	0	-
Strip Mall	1,769,422	1,751,860	-
Total	24,519,880	62,042,540	-
Total Residential Energy Usage	6,321,714	25,389,271	
Total Non-Residential Energy Usage	18,198,166	36,653,269	

Construction Energy Consumption

Percentage of Full Buildout Assumed in Maximum Year: 6%

Maximum Annual Construction Scenario

Phase	Source	MT CO ₂ e/yr ^a	Fuel Type	Emission Factor (lb CO ₂ /gallon) ^b	Gallons/year
<i>Demolition</i>	Offroad Equip	156.00	Diesel	22.45	15,565
	Worker	7.26	Gas	17.86	911
	Vendor	0.00	Diesel	22.45	-
	Hauling	0.00	Diesel	22.45	-
<i>Site Preparation</i>	Offroad Equip	145.00	Diesel	22.45	14,468
	Worker	5.08	Gas	17.86	637
	Vendor	0.00	Diesel	22.45	-
	Hauling	0.00	Diesel	22.45	-
<i>Grading</i>	Offroad Equip	465.00	Diesel	22.45	46,396
	Worker	15.00	Gas	17.86	1,881
	Vendor	0.00	Diesel	22.45	-
	Hauling	0.00	Diesel	22.45	-
<i>Building Construction</i>	Offroad Equip	284.00	Diesel	22.45	28,337
	Worker	262.00	Gas	17.86	32,860
	Vendor	251.00	Diesel	22.45	25,044
	Hauling	0.00	Diesel	22.45	-
<i>Paving</i>	Offroad Equip	75.70	Diesel	22.45	7,553
	Worker	7.98	Gas	17.86	1,001
	Vendor	0.00	Diesel	22.45	-
	Hauling	0.00	Diesel	22.45	-
<i>Architectural Coatings</i>	Offroad Equip	6.68	Diesel	22.45	667
	Worker	22.10	Gas	17.86	2,772
	Vendor	0.00	Diesel	22.45	-
	Hauling	0.00	Diesel	22.45	-
Total			Diesel	138,030	
			Gasoline	40,062	

Note: Total Potential Construction emissions are amortized over 30 years, typical for mixed use developments.

Sources:

^a Modeled by AECOM in 2022.

^b U.S. Energy Information Administration released October 5, 2022 (https://www.eia.gov/environment/emissions/co2_vol_mass.php)

Full Build-Out Scenario

Phase	Source	MT CO ₂ e ^a	Fuel Type	Emission Factor (lb CO ₂ /gallon) ^b	Gallons
<i>Demolition</i>	Offroad Equip	2600.00	Diesel	22.45	259,421
	Worker	121.00	Gas	17.86	15,176
	Vendor	0.00	Diesel	22.45	-
	Hauling	0.00	Diesel	22.45	-
<i>Site Preparation</i>	Offroad Equip	2416.67	Diesel	22.45	241,128
	Worker	84.67	Gas	17.86	10,619
	Vendor	0.00	Diesel	22.45	-
	Hauling	0.00	Diesel	22.45	-
<i>Grading</i>	Offroad Equip	7750.00	Diesel	22.45	773,274
	Worker	250.00	Gas	17.86	31,355
	Vendor	0.00	Diesel	22.45	-
	Hauling	0.00	Diesel	22.45	-
<i>Building Construction</i>	Offroad Equip	4733.33	Diesel	22.45	472,279
	Worker	4366.67	Gas	17.86	547,667
	Vendor	4183.33	Diesel	22.45	417,402
	Hauling	0.00	Diesel	22.45	-
<i>Paving</i>	Offroad Equip	1261.67	Diesel	22.45	125,886
	Worker	133.00	Gas	17.86	16,681
	Vendor	0.00	Diesel	22.45	-
	Hauling	0.00	Diesel	22.45	-
<i>Architectural Coatings</i>	Offroad Equip	111.33	Diesel	22.45	11,109
	Worker	368.33	Gas	17.86	46,196
	Vendor	0.00	Diesel	22.45	-
	Hauling	0.00	Diesel	22.45	-
Total Demand			Diesel	2,300,498	
			Gasoline	667,694	
Average Annual Demands			Diesel	76,683	
			Gasoline	22,256	

Town of Loomis Proposed General Plan Update
Operational Transportation Energy Consumption

Source: EMFAC2021 (v1.0.2) Emissions Inventory
 Region Type: County
 Region: Placer

Calendar Year: 2040

Season: Annual
 Vehicle Classification: EMFAC202x 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

Project Annual
 VMT:
47,975,713

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	TotalVMT	CVMT	EVMT	Trips	Energy Consumpt	Fuel_Consum	kwh/mile	% VMT	Project Daily			
															VMT	Project Annual VMT	Project Annual Fuel Consumption (gallons)	Project Annual Electricity
Placer	2040	LDA	Aggregate	Aggregate	Gasoline	113311.6993	1599545355	1599545355	0	183613239.2	0	44056.7183	38.16%	50155.3280	18306694.71	504226.3344	0	
Placer	2040	LDA	Aggregate	Aggregate	Diesel	98.16078447	1087122.499	1087122.499	0	145443.938	0	20.3075544	0.03%	34.0878	12442.05	232.4186666	0	
Placer	2040	LDA	Aggregate	Aggregate	Electricity	14840.85194	226675294.6	0	226675294.6	24492832.22	87515372.26	0	0.386083	5.41%	7107.6282	2594284.31	0	1001607.862
Placer	2040	LDA	Aggregate	Aggregate	Plug-in Hybrid	5240.243981	76273707.26	31409103.65	44864603.62	7518937.875	13550447.47	1126.6909	0.30203	1.82%	2391.6376	872947.72	12894.90559	263656.23
Placer	2040	LDT1	Aggregate	Aggregate	Gasoline	10760.70419	140622552	140622552	0	16637232.39	0	4551.40009	3.35%	4409.3593	1609416.15	52090.48412	0	
Placer	2040	LDT1	Aggregate	Aggregate	Diesel	0.102094486	1544.561411	1544.561411	0	166.5294186	0	0.05144932	0.00%	0.0484	17.68	0.588834157	0	
Placer	2040	LDT1	Aggregate	Aggregate	Electricity	239.5049991	3724770.783	0	3724770.783	398684.087	1438068.944	0	0.386083	0.09%	116.7939	42629.76	0	16458.60748
Placer	2040	LDT1	Aggregate	Aggregate	Plug-in Hybrid	184.9046993	2977980.516	1213975.809	1764004.707	265309.5833	532781.9974	43.6898018	0.30203	0.07%	93.3775	34082.80	500.026992	10294.02663
Placer	2040	LDT2	Aggregate	Aggregate	Gasoline	86223.65056	1225845489	1225845489	0	137656378.7	0	40740.1277	29.24%	38437.5988	14029232.55	466268.1671	0	
Placer	2040	LDT2	Aggregate	Aggregate	Diesel	332.7825188	4716505.724	4716505.724	0	531412.3935	0	117.756981	0.11%	147.8907	53980.11	1347.721148	0	
Placer	2040	LDT2	Aggregate	Aggregate	Electricity	2915.799186	30895583.66	0	30895583.66	4833136.255	11928245.24	0	0.386083	0.74%	968.7616	353597.99	0	136518.0071
Placer	2040	LDT2	Aggregate	Aggregate	Plug-in Hybrid	2094.910202	31975315.38	13107773.79	18867541.59	3005871.43	5698559.902	474.069322	0.30203	0.76%	1002.6177	365955.45	5425.693195	110529.4525
Placer	2040	LHD1	Aggregate	Aggregate	Gasoline	3975.958767	46372353.58	46372353.58	0	19370126.7	0	4228.93205	1.11%	1454.0510	530728.63	48399.85799	0	
Placer	2040	LHD1	Aggregate	Aggregate	Diesel	3257.977356	35214822.84	35214822.84	0	13400870.91	0	2138.46475	0.84%	1104.1956	403031.40	24474.59286	0	
Placer	2040	LHD1	Aggregate	Aggregate	Electricity	2456.053164	41220135.05	0	41220135.05	11247116.4	26841160.9	0	0.651166	0.98%	1292.4981	471761.82	0	307195.377
Placer	2040	LHD2	Aggregate	Aggregate	Gasoline	486.0626768	5577141.487	5577141.487	0	2368006.356	0	569.597237	0.13%	174.8768	63830.03	6519.004096	0	
Placer	2040	LHD2	Aggregate	Aggregate	Diesel	1562.990645	16588181.64	16588181.64	0	6428969.134	0	1188.85359	0.40%	520.1389	189850.68	13606.35356	0	
Placer	2040	LHD2	Aggregate	Aggregate	Electricity	621.6587394	1006446.23	0	1006446.23	2691897.634	6431588.659	0	0.640185	0.24%	315.0163	114980.94	0	73609.12257
Placer	2040	MDV	Aggregate	Aggregate	Gasoline	50149.21168	639156389.7	639156389.7	0	79065407.87	0	26028.7229	15.25%	20041.3813	7315104.17	297897.0756	0	
Placer	2040	MDV	Aggregate	Aggregate	Diesel	660.213022	7740780.424	7740780.424	0	1014121.423	0	259.669283	0.18%	242.7198	88592.74	2971.898046	0	
Placer	2040	MDV	Aggregate	Aggregate	Electricity	2642.146588	27747908.98	0	27747908.98	4365493.432	10712983.03	0	0.386083	0.66%	870.0632	315753.05	0	122609.4084
Placer	2040	MDV	Aggregate	Aggregate	Plug-in Hybrid	1289.348775	17867009.2	7340757.101	10526252.1	1850015.643	3179241.867	269.875975	0.30203	0.43%	560.2378	204486.78	3088.71334	61761.10296
							4191872390											125,814,928

Category	Amount	Units
Diesel (heat content)	5.8	MMBtu/barrel
Motor Gasoline	5.25	MMBtu/barrel
Gallons per Barrel	42	gallons/barrel
		MMBtu/KWh
Source: The Climate Registry, 2021, 2021 Climate Registry Default Emission Factors: Table 2.1 (https://www.theclimateregistry.org/wp-content/uploads/2021/05/2021-Default-Emission-Factor-Documents.pdf)		
Project Mobile Energy		
Gallons/year, Diesel	42,634	Diesel
Gallons/year, Gasoline	1,375,401	Gasoline
KWh/year, Electricity	1,657,998	Electricity
Gallons/year, Gasoline, Plug-in Hybrid	21,909	Plug-in Hybrid
KWh/year, Electricity, Plug-in Hybrid	445,241	Plug-in Hybrid
KWh/year, EV and Hybrid	2,106,239	EV + Hybrid
Gallons/year, Gasoline + Hybrid	1,397,310	Gasoline + Hybrid
Gallons/year, Natural Gas	-	Natural Gas

Town of Loomis Proposed General Plan Update
Existing GHG Calculations

Table A-1: Loomis 2005 Baseline Residential Energy Use by Energy Source

Energy Source	Value	Units	Data Source
Electricity Consumption - PG&E	23,876,364	kWh	Pacific Gas and Electric
Electricity Consumption - Direct Access	32,307	kWh	California Energy Commission
Total Electricity Consumption	23,909,671	kWh	
Natural Gas Consumption	989,949	Therms	Pacific Gas and Electric
Propane (LPG) Consumption	154,915	Gallons	NOAA, U.S. EPA and U.S. Census Bureau
Fuel Oil / Kerosene Consumption	6,855	Gallons	NOAA, U.S. EPA and U.S. Census Bureau
Wood for Home Heating Consumption	156	Cords	NOAA, U.S. EPA and U.S. Census Bureau

2005 Baseline Numbers		
Residential kWh	23,909,671	6,166 2005 population - Provided by Matthew Gerlin 6-22-22
Non-residential kWh	24,371,091	2,811 2005 number of employees - estimated using current ratio of empl to pop
Residential NG Therms	989,949	
Non-residential NG Therms	316,564	6,803 Current population - from GP
Residential LPG Gal	154,915	3,100 Current Employees - from GP
Residential Fuel Oil Gal	6,855	
Residential Wood Cords	156	9,000 Anticipated 2040 population - current plus new build-out - from GP
4,500		Anticipated 2040 population - current plus new build-out - from GP
kWh per capita	3,878	
kWh per employee	8,670	
Therm per capita	161	
Therm per employee	113	
LPG Gal per capita	25	
Fuel Oil Gal per capita	1.1	
Wood Cords per capita	0.03	

Table A-2: Loomis 2005 Baseline Non-Residential Energy Use by Energy Source

Energy Source	Value	Units	Data Source
Electricity Consumption - PG&E	37,881,067	kWh	Pacific Gas and Electric
Electricity Consumption - Direct Access	6,490,024	kWh	California Energy Commission
Total Electricity Consumption	44,371,091	kWh	
Natural Gas - PG&E	316,564	Therms	Pacific Gas and Electric

Utility electricity consumption data was collected from PG&E for all accounts paid for by the town of Loomis. In 2005, the Town did not use propane or natural gas in any municipal facilities.

Loomis Strategic Energy Resources Report - Approved March 17, 2015 [Appendix A](#) page 34

Sierra Business Council. 2015. Town of Loomis: Strategic Energy Resources Report. Available: <https://loomis.ca.gov/documents/loomis-strategic-energy-resources-report-final-appro>

Current Conditions Estimate	CO2		CH4		N2O		Source	
	Factor	Unit	Factor	Unit	Factor	Unit		
Residential kWh	0.041	lb/KWh					Proprietary Intensity Factor (CO2e) using current PG&E EPS mix and SB 100 requirements.	
Non-residential kWh	26,368,330	0.041	lb/KWh				Proprietary Intensity Factor (CO2e) using current PG&E EPS mix and SB 100 requirements.	
Residential NG Therms	20,876,974	11.69	lb/Therm	2.20E-04	lb/Therm	2.20E-05	lb/Therm	45 CFR Part 98 Subpart C, converted from kg/MWh.
Non-residential NG Therms	1,091,737	11.69	lb/Therm	2.20E-04	lb/Therm	2.20E-05	lb/Therm	45 CFR Part 98 Subpart C, converted from kg/MWh.
Residential LPG Gal	349,114	170,844	12.52	lb/gal	6.08E-04	1.22E-04	lb/gal	45 CFR Part 98 Subpart C, converted from kg/MWh.
Residential Fuel Oil Gal	170,844	170,844	12.52	lb/gal	6.08E-04	1.22E-04	lb/gal	45 CFR Part 98 Subpart C, converted from kg/MWh.
Residential Wood Cords	7,560	35.00	lb/cord	0.32	lb/cord	0.15	lb/cord	45 CFR Part 98 Subpart C, converted from kg/MWh. Build-out from https://www.nrg.com/energy/insights/index.cfm?tag=about-us .
Residential Wood Cords	172	4135.87	lb/cord	0.32	lb/cord	0.15	lb/cord	
MT/yr	9,825			0.21		0.04		
				CO2e		0.841		
				MT/yr				

Buildout Waste Generation Estimates from CalEEMod				
	CO2e MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
General Light Industry	3.76	0.38	0	13.2
Elementary School	10.4	1.04	0	36.5
Condo/Townhouse	17.2	1.72	0	60.1
Industrial Park	22.7	2.27	0	79.4
Single Family Housing	6.55	0.65	0	22.9
Office Park	8.96	0.9	0	31.4
Strip Mall	19	1.9	0	66.5
Discount Club	58.5	5.94	0	208
High Turnover (St. Do)	168	16.8	0	587
Parking Lot	0	0	0	0
Total	316	31.6	0	1,105
Total Non-Residential				1022
Total Residential				83
				0.677
				0.637

Note: Using normalized (tons of emissions per service population) provided in CalEEMod for full buildout model scenario to estimate existing conditions waste emissions. **CO2e MT/yr - Existing Conditions 3,387**

Table 5: Community GHG Emissions per Sector per Scope (metric tons)

Sector	Scope 1	Scope 2	Scope 3	TOTAL
Residential	6,263	5,356	0	11,619
Commercial / Industrial	1,684	6,804	0	8,488
Transportation	34,238	0	0	34,238
Waste	241	0	1,455	1,696
TOTAL	42,426	12,159	1,455	56,041
% of Total CO2e	75.7%	21.7%	2.6%	100.0%

Sierra Business Council. 2012. Town of Loomis: 2005 Community-Wide Greenhouse Gas Emissions Inventory.

PG&E Emission Factor Forecasted

2020 2045
31% 100%

RPS includes solar, wind, geothermal, biomass and waste and eligible hydroelectric

PG&E 2020 Power Mix	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
RPS	30.6%	33.4%	36.2%	38.9%	41.7%	44.5%	47.3%	50.0%	52.8%	55.6%	58.4%	61.1%	63.9%	66.7%	69.5%	72.2%	75.0%	77.8%	80.6%	83.3%	86.1%	88.9%	91.7%	94.4%	97.2%	100.0%
Large Hydroelectric	10.1%	9.7%	9.3%	8.9%	8.5%	8.1%	7.7%	7.3%	6.9%	6.5%	6.1%	5.7%	5.3%	4.8%	4.4%	4.0%	3.6%	3.2%	2.8%	2.4%	2.0%	1.6%	1.2%	0.8%	0.4%	0.0%
Fossil Fuel	16.4%	15.7%	15.1%	14.4%	13.8%	13.1%	12.5%	11.8%	11.2%	10.5%	9.8%	9.2%	8.5%	7.9%	7.2%	6.6%	5.9%	5.2%	4.6%	3.9%	3.3%	2.6%	2.0%	1.3%	0.7%	0.0%
Nuclear	42.8%	41.1%	39.4%	37.7%	36.0%	34.2%	32.5%	30.8%	29.1%	27.4%	25.7%	24.0%	22.3%	20.5%	18.8%	17.1%	15.4%	13.7%	12.0%	10.3%	8.6%	6.8%	5.1%	3.4%	1.7%	0.0%
Unspecified	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Renewable Energy	84%	84.16%	84.82%	85.48%	86.14%	86.80%	87.46%	88.12%	88.78%	89.44%	90.10%	90.76%	91.42%	92.08%	92.74%	93.40%	94.06%	94.72%	95.38%	96.04%	96.70%	97.36%	98.02%	98.68%	99.34%	100.00%
Non-Renewable	17%	15.8%	15.2%	14.5%	13.9%	13.2%	12.5%	11.9%	11.2%	10.6%	9.90%	9.24%	8.58%	7.92%	7.26%	6.60%	5.94%	5.28%	4.62%	3.96%	3.30%	2.64%	1.98%	1.32%	0.66%	0.00%
Non-Renewable																										
MT CO2e/MWh	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
MT CO2e/MWh	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.00
lbs CO2e/kWh	0.206	0.198	0.190	0.181	0.173	0.165	0.157	0.148	0.140	0.132	0.124	0.115	0.107	0.099	0.091	0.082	0.074	0.066	0.058	0.049	0.041	0.033	0.025	0.016	0.008	0.000

41.19992

Electricity Portfolio Sources:

https://www.pgecorp.com/corp_responsibility/reports/2021/pf04_renewable_energy.html

Emissions Factor Sources:

CO2e/MWh based on current CalEEMod intensity factors and 40 CFR Part 98 Subpart A GHG equivalents.

Conversion Factor

MT/lbs
0.000453592
2204.62

	2020	2030	2040	2050
Emissions Targets (MT CO ₂ e/yr)	293,462,436	176,077,461	117,384,974	58,692,487
Percent Mass Emissions Reduction	n/a	40% below 1990	60% below 1990	80% below 1990
Population	39,782,419	41,860,549	43,353,414	44,049,015
Employment	17,719,800	19,315,800	20,911,800	22,507,800
Service Population (SP)	57,502,219	61,176,349	64,265,214	66,556,815
Per Capita Emissions Efficiency Targets (MT CO ₂ e/capita/yr)	7.38	4.21	2.71	1.33
Per Service Population Emissions Efficiency Targets. (MT CO ₂ e/SP/yr)	5.10	2.88	1.83	0.88

2018-2028 Occupational Employment Projections
California
Statewide

SOC Level ^[1]	SOC Code ^[2]	Occupational Title	Base Year Employment Estimate 2018 ^{[3][4]}	Projected Year Employment Estimate 2028
		Total Occupations adjusted to applicable land use	N/A	N/A
		Total, All Occupations	18,825,900	20,412,500
1	00-0000	Management Occupations	1,400,300	1,539,900
3	11-1000	Top Executives	320,000	343,800
4	11-1011	Chief Executives	43,300	41,500
4	11-1021	General and Operations Managers	273,600	299,000
4	11-1031	Legislators	3,200	3,300
3	11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	144,000	156,700
4	11-2011	Advertising and Promotions Managers	3,000	3,200
4	11-2021	Marketing Managers	45,600	51,500
4	11-2022	Sales Managers	89,100	95,100
4	11-2031	Public Relations and Fundraising Managers	6,300	6,900
3	11-3000	Operations Specialties Managers	295,300	337,500
4	11-3011	Administrative Services Managers	28,100	30,700
4	11-3021	Computer and Information Systems Managers	85,300	98,600
4	11-3031	Financial Managers	99,400	117,900
4	11-3051	Industrial Production Managers	22,100	22,900
4	11-3061	Purchasing Managers	8,300	9,000
4	11-3071	Transportation, Storage, and Distribution Managers	20,600	23,500
4	11-3121	Human Resources Managers	23,500	26,200
4	11-3131	Training and Development Managers	5,600	6,200
3	11-9000	Other Management Occupations	641,100	701,900
4	11-9013	Farmers, Ranchers, and Other Agricultural Managers	94,400	91,800
4	11-9021	Construction Managers	55,100	59,600
4	11-9031	Education Administrators, Preschool and Childcare Center/Program	9,300	10,200
4	11-9032	Education Administrators, Elementary and Secondary School	28,200	29,800
4	11-9033	Education Administrators, Postsecondary	16,200	18,100
4	11-9041	Architectural and Engineering Managers	35,500	38,300
4	11-9051	Food Service Managers	69,200	79,900
4	11-9061	Funeral Service Managers	1,100	1,300
4	11-9081	Lodging Managers	5,900	6,100
4	11-9111	Medical and Health Services Managers	40,900	50,500
4	11-9141	Property, Real Estate, and Community Association Managers	65,300	70,600
4	11-9199	Managers, All Other	160,400	179,000
2	13-0000	Business and Financial Operations Occupations	1,148,500	1,261,400
3	13-1000	Business Operations Specialists	783,400	870,600
4	13-1020	Buyers and Purchasing Agents	50,000	47,700
4	13-1032	Insurance Appraisers, Auto Damage	2,500	2,500
4	13-1041	Compliance Officers	41,500	44,900
4	13-1051	Cost Estimators	27,700	29,900
4	13-1071	Human Resources Specialists	77,000	85,000
4	13-1075	Labor Relations Specialists	8,500	8,300
4	13-1081	Logisticians	24,500	26,800
4	13-1111	Management Analysts	134,600	153,300
4	13-1121	Meeting, Convention, and Event Planners	19,900	22,000
4	13-1131	Fundraisers	10,600	12,000
4	13-1141	Compensation, Benefits, and Job Analysis Specialists	11,000	11,800
4	13-1151	Training and Development Specialists	31,900	36,800
4	13-1161	Market Research Analysts and Marketing Specialists	107,600	133,700
4	13-1199	Business Operations Specialists, All Other	196,400	217,000
3	13-2000	Financial Specialists	365,100	390,800
4	13-2011	Accountants and Auditors	168,800	181,800
4	13-2021	Appraisers and Assessors of Real Estate	5,300	5,600
4	13-2031	Budget Analysts	6,400	6,900
4	13-2041	Credit Analysts	8,600	8,900
4	13-2051	Financial Analysts	42,500	46,500
4	13-2052	Personal Financial Advisors	36,100	38,800
4	13-2053	Insurance Underwriters	9,400	9,100
4	13-2061	Financial Examiners	5,300	5,700
4	13-2071	Credit Counselors	4,000	4,300
4	13-2072	Loan Officers	37,300	39,200
4	13-2081	Tax Examiners and Collectors, and Revenue Agents	8,600	8,400
4	13-2082	Tax Preparers	11,500	12,000
4	13-2099	Financial Specialists, All Other	21,300	23,500
2	15-0000	Computer and Mathematical Occupations	497,500	579,400
3	15-1100	Computer Occupations	479,000	555,000
4	15-1111	Computer and Information Research Scientists	6,200	7,700
4	15-1121	Computer Systems Analysts	52,100	56,000
4	15-1122	Information Security Analysts	5,500	7,300
4	15-1131	Computer Programmers	22,200	20,500

Interpolated 2020 Employment Estimate	Extrapolated 2030 Employment Estimate	Extrapolated 2040 Employment Estimate	Extrapolated 2050 Employment Estimate
17,719,800	19,315,800	20,911,800	22,507,800
19,143,220	20,729,820	22,316,420	23,903,020
1,428,220	1,567,820	1,707,420	1,847,020
324,760	348,560	372,360	396,160
42,940	41,140	39,340	37,540
278,680	304,080	329,480	354,880
3,220	3,320	3,420	3,520
146,540	159,240	171,940	184,640
3,040	3,240	3,440	3,640
46,780	52,680	58,580	64,480
90,300	96,300	102,300	108,300
6,420	7,020	7,620	8,220
303,740	345,940	388,140	430,340
28,620	31,220	33,820	36,420
87,960	101,260	114,560	127,860
103,100	121,600	140,100	158,600
22,260	23,060	23,860	24,660
8,440	9,140	9,840	10,540
21,180	24,080	26,980	29,880
24,040	26,740	29,440	32,140
5,720	6,320	6,920	7,520
653,260	714,060	774,860	835,660
93,880	91,280	88,680	86,080
56,000	60,500	65,000	69,500
9,480	10,380	11,280	12,180
28,520	30,120	31,720	33,320
16,580	18,480	20,380	22,280
36,060	38,860	41,660	44,460
71,340	82,040	92,740	103,440
1,140	1,340	1,540	1,740
5,940	6,140	6,340	6,540
42,820	52,420	62,020	71,620
66,360	71,660	76,960	82,260
164,120	182,720	201,320	219,920
1,171,080	1,283,980	1,396,880	1,509,780
800,840	888,040	975,240	1,062,440
49,540	47,240	44,940	42,640
2,500	2,500	2,500	2,500
42,180	45,580	48,980	52,380
28,140	30,340	32,540	34,740
78,600	86,600	94,600	102,600
8,460	8,260	8,060	7,860
24,960	27,260	29,560	31,860
138,340	157,040	175,740	194,440
20,320	22,420	24,520	26,620
10,880	12,280	13,680	15,080
11,160	11,960	12,760	13,560
32,880	37,780	42,680	47,580
112,820	138,920	165,020	191,120
200,520	221,120	241,720	262,320
370,240	395,940	421,640	447,340
171,400	184,400	197,400	210,400
5,360	5,660	5,960	6,260
6,500	7,000	7,500	8,000
8,660	8,960	9,260	9,560
43,300	47,300	51,300	55,300
36,640	39,340	42,040	44,740
9,340	9,040	8,740	8,440
5,380	5,780	6,180	6,580
4,060	4,360	4,660	4,960
37,680	39,580	41,480	43,380
8,560	8,360	8,160	7,960
11,600	12,100	12,600	13,100
21,740	23,940	26,140	28,340
513,880	595,780	677,680	759,580
494,200	570,200	646,200	722,200
6,500	8,000	9,500	11,000
52,880	56,780	60,680	64,580
5,860	7,660	9,460	11,260
21,860	20,160	18,460	16,760

Removed jobs from: 11-9013 Farmers, Ranchers, and Other Agricultural Managers; 19-4041 Geological and Petroleum Technicians; 19-4093 Forest and Conservation Technicians; 45-000 Farming, Fishing, and Forestry Occupations; 47-5000 Extraction Workers; 49-3011 Aircraft Mechanics and Service Technicians; 49-3041 Farm Equipment Mechanics and Service Technicians; 49-9041 Industrial Machinery Mechanics; 49-9043 Maintenance Workers, Machinery; 49-9044 Millwrights; 51-0000 Production Occupations; 53-2000 Air Transportation Workers; 53-4000 Rail Transportation Workers; and 53-5000 Water Transportation Workers.

SOC Code	Occupational Title	2020 Est	2030 Est	2040 Est	2050 Est
11-9013	Farmers, Ranchers, and Other Agricultural Managers	93880	91280	88680	86080
19-4041	Geological and Petroleum Technicians	1120	1220	1320	1420
19-4093	Forest and Conservation Technicians	6860	7160	7460	7760
45-0000	Farming, Fishing, and Forestry Occupations	352780	359180	365580	371980
47-5000	Extraction Workers	10800	10800	10800	10800
49-3011	Aircraft Mechanics and Service Technicians	14220	14820	15420	16020
49-3041	Farm Equipment Mechanics and Service Technicians	5660	5960	6260	6560
49-9041	Industrial Machinery Mechanics	29900	31900	33900	35900
49-9043	Maintenance Workers, Machinery	7400	7900	8400	8900
49-9044	Millwrights	2840	3040	3240	3440
51-0000	Production Occupations	852300	836300	820300	804300
53-2000	Air Transportation Workers	34780	33680	32580	31480
53-4000	Rail Transportation Workers	6640	6340	6040	5740
53-5000	Water Transportation Workers	4240	4440	4640	4840

2018-2028 Occupational Employment Projections

California
Statewide

SOC Level ^[1]	SOC Code ^[2]	Occupational Title	Base Year Employment Estimate 2018 ^[3]	Projected Year Employment Estimate 2028
4	15-1132	Software Developers, Applications	123,400	159,200
4	15-1133	Software Developers, Systems Software	69,500	77,800
4	15-1134	Web Developers	16,200	18,900
4	15-1141	Database Administrators	7,700	8,600
4	15-1142	Network and Computer Systems Administrators	25,700	27,200
4	15-1143	Computer Network Architects	11,900	12,900
4	15-1151	Computer User Support Specialists	54,700	62,400
4	15-1152	Computer Network Support Specialists	12,900	14,200
4	15-1199	Computer Occupations, All Other	71,100	82,300
3	15-2000	Mathematical Science Occupations	18,500	24,400
4	15-2011	Actuaries	1,700	2,100
4	15-2031	Operations Research Analysts	10,600	13,600
4	15-2041	Statisticians	5,400	7,600
2	17-0000	Architecture and Engineering Occupations	374,200	403,200
3	17-1000	Architects, Surveyors, and Cartographers	27,100	29,200
4	17-1011	Architects, Except Landscape and Naval	18,400	20,000
4	17-1012	Landscape Architects	3,200	3,300
4	17-1022	Surveyors	4,600	4,900
3	17-2000	Engineers	254,300	276,300
4	17-2011	Aerospace Engineers	12,300	13,700
4	17-2031	Biomedical Engineers	2,900	3,200
4	17-2041	Chemical Engineers	2,200	2,500
4	17-2051	Civil Engineers	51,900	55,200
4	17-2061	Computer Hardware Engineers	22,600	25,000
4	17-2071	Electrical Engineers	27,000	29,400
4	17-2072	Electronics Engineers, Except Computer	29,400	31,600
4	17-2081	Environmental Engineers	9,000	9,700
		Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	2,300	2,400
4	17-2112	Industrial Engineers	28,700	32,400
4	17-2131	Materials Engineers	2,700	2,800
4	17-2141	Mechanical Engineers	29,700	31,900
4	17-2171	Petroleum Engineers	2,500	2,400
4	17-2199	Engineers, All Other	29,000	31,900
		Drafters, Engineering Technicians, and Mapping Technicians	92,800	97,700
4	17-3011	Architectural and Civil Drafters	13,800	14,000
4	17-3012	Electrical and Electronics Drafters	3,600	3,800
4	17-3013	Mechanical Drafters	5,600	5,300
4	17-3019	Drafters, All Other	1,700	1,800
4	17-3021	Aerospace Engineering and Operations Technicians	2,400	2,700
4	17-3022	Civil Engineering Technicians	8,200	8,700
4	17-3023	Electrical and Electronics Engineering Technicians	25,300	26,800
4	17-3024	Electro-Mechanical Technicians	2,500	2,700
4	17-3025	Environmental Engineering Technicians	3,800	4,300
4	17-3026	Industrial Engineering Technicians	5,000	5,300
4	17-3027	Mechanical Engineering Technicians	3,800	4,100
4	17-3029	Engineering Technicians, Except Drafters, All Other	12,500	13,700
4	17-3031	Surveying and Mapping Technicians	4,400	4,700
2	19-0000	Life, Physical, and Social Science Occupations	185,000	210,400
3	19-1000	Life Scientists	59,500	69,400
4	19-1012	Food Scientists and Technologists	2,400	2,600
4	19-1013	Soil and Plant Scientists	3,300	3,800
4	19-1021	Biochemists and Biophysicists	5,900	7,200
4	19-1022	Microbiologists	3,700	4,300
4	19-1023	Zoologists and Wildlife Biologists	2,600	3,000
4	19-1029	Biological Scientists, All Other	11,500	13,600
4	19-1031	Conservation Scientists	2,000	2,300
4	19-1042	Medical Scientists, Except Epidemiologists	25,100	29,300
4	19-1099	Life Scientists, All Other	1,500	1,700
3	19-2000	Physical Scientists	38,100	42,300
4	19-2012	Physicists	2,200	2,700
4	19-2031	Chemists	10,600	11,800
		Environmental Scientists and Specialists, Including Health	15,000	16,600
4	19-2042	Geoscientists, Except Hydrologists and Geographers	5,000	5,400
4	19-2043	Hydrologists	1,000	1,100
4	19-2099	Physical Scientists, All Other	2,200	2,500
3	19-3000	Social Scientists and Related Workers	39,600	44,700
4	19-3011	Economists	2,100	2,400
4	19-3031	Clinical, Counseling, and School Psychologists	17,400	19,700
4	19-3039	Psychologists, All Other	3,000	3,400
4	19-3041	Sociologists	1,100	1,300
4	19-3051	Urban and Regional Planners	8,100	8,900
4	19-3091	Anthropologists and Archeologists	1,700	2,100

Interpolated 2020 Employment Estimate	Extrapolated 2030 Employment Estimate	Extrapolated 2040 Employment Estimate	Extrapolated 2050 Employment Estimate
130,560	166,360	202,160	237,960
71,160	79,460	87,760	96,060
16,740	19,440	22,140	24,840
7,880	8,780	9,680	10,580
26,000	27,500	29,000	30,500
12,100	13,100	14,100	15,100
56,240	63,940	71,640	79,340
13,160	14,460	15,760	17,060
73,340	84,540	95,740	106,940
19,680	25,580	31,480	37,380
1,780	2,180	2,580	2,980
11,200	14,200	17,200	20,200
5,840	8,040	10,240	12,440
380,000	409,000	438,000	467,000
27,520	29,620	31,720	33,820
18,720	20,320	21,920	23,520
3,220	3,320	3,420	3,520
4,660	4,960	5,260	5,560
258,700	280,700	302,700	324,700
12,580	13,980	15,380	16,780
2,960	3,260	3,560	3,860
2,260	2,560	2,860	3,160
52,560	55,860	59,160	62,460
23,080	25,480	27,880	30,280
27,480	29,880	32,280	34,680
29,840	32,040	34,240	36,440
9,140	9,840	10,540	11,240
2,320	2,420	2,520	2,620
29,440	33,140	36,840	40,540
2,720	2,820	2,920	3,020
30,140	32,340	34,540	36,740
2,480	2,380	2,280	2,180
29,580	32,480	35,380	38,280
93,780	98,680	103,580	108,480
13,840	14,040	14,240	14,440
3,640	3,840	4,040	4,240
5,540	5,240	4,940	4,640
1,720	1,820	1,920	2,020
2,460	2,760	3,060	3,360
8,300	8,800	9,300	9,800
25,600	27,100	28,600	30,100
2,540	2,740	2,940	3,140
3,900	4,400	4,900	5,400
5,060	5,360	5,660	5,960
3,860	4,160	4,460	4,760
12,740	13,940	15,140	16,340
4,460	4,760	5,060	5,360
190,080	215,480	240,880	266,280
61,480	71,380	81,280	91,180
2,440	2,640	2,840	3,040
3,400	3,900	4,400	4,900
6,160	7,460	8,760	10,060
3,820	4,420	5,020	5,620
2,680	3,080	3,480	3,880
11,920	14,020	16,120	18,220
2,060	2,360	2,660	2,960
25,940	30,140	34,340	38,540
1,540	1,740	1,940	2,140
38,940	43,140	47,340	51,540
2,300	2,800	3,300	3,800
10,840	12,040	13,240	14,440
15,320	16,920	18,520	20,120
5,080	5,480	5,880	6,280
1,020	1,120	1,220	1,320
2,260	2,560	2,860	3,160
40,620	45,720	50,820	55,920
2,160	2,460	2,760	3,060
17,860	20,160	22,460	24,760
3,080	3,480	3,880	4,280
1,140	1,340	1,540	1,740
8,260	9,060	9,860	10,660
1,780	2,180	2,580	2,980

Removed jobs from: 11-9013 Farmers, Ranchers, and Other Agricultural Managers; 19-4041 Geological and Petroleum Technicians; 19-4093 Forest and Conservation Technicians; 45-000 Farming, Fishing, and Forestry Occupations; 47-5000 Extraction Workers; 49-3011 Aircraft Mechanics and Service Technicians; 49-3041 Farm Equipment Mechanics and Service Technicians; 49-9041 Industrial Machinery Mechanics; 49-9043 Maintenance Workers, Machinery; 49-9044 Millwrights; 51-0000 Production Occupations; 53-2000 Air Transportation Workers; 53-4000 Rail Transportation Workers; and 53-5000 Water Transportation Workers.

2018-2028 Occupational Employment Projections

California Statewide

SOC Level ^[1]	SOC Code ^[2]	Occupational Title	Base Year Employment Estimate 2018 ^[3]	Projected Year Employment Estimate 2028
4	19-3099	Social Scientists and Related Workers, All Other	4,600	5,300
3	19-4000	Life, Physical, and Social Science Technicians	47,800	54,100
4	19-4011	Agricultural and Food Science Technicians	3,700	4,100
4	19-4021	Biological Technicians	10,600	12,400
4	19-4031	Chemical Technicians	7,100	7,800
4	19-4041	Geological and Petroleum Technicians	1,100	1,200
4	19-4061	Social Science Research Assistants	2,700	3,300
4	19-4091	Environmental Science and Protection Technicians, Including Health	3,700	4,100
4	19-4092	Forensic Science Technicians	2,200	2,500
4	19-4093	Forest and Conservation Technicians	6,800	7,100
4	19-4099	Life, Physical, and Social Science Technicians, All Other	9,800	11,300
2	21-0000	Community and Social Service Occupations	347,400	390,300
3	21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	317,200	357,900
4	21-1012	Educational, Guidance, School, and Vocational Counselors	39,600	44,200
4	21-1013	Marriage and Family Therapists	34,900	43,100
4	21-1015	Rehabilitation Counselors	17,500	19,200
4	21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	37,300	44,200
4	21-1019	Counselors, All Other	5,800	6,800
4	21-1021	Child, Family, and School Social Workers	33,800	35,800
4	21-1022	Healthcare Social Workers	20,800	24,400
4	21-1023	Mental Health and Substance Abuse Social Workers	15,900	18,200
4	21-1029	Social Workers, All Other	12,500	13,400
4	21-1091	Health Educators	7,500	8,500
4	21-1092	Probation Officers and Correctional Treatment Specialists	13,400	13,800
4	21-1093	Social and Human Service Assistants	55,400	61,300
4	21-1094	Community Health Workers	5,900	6,600
4	21-1099	Community and Social Service Specialists, All Other	17,000	18,400
3	21-2000	Religious Workers	30,200	32,500
4	21-2011	Clergy	16,200	17,500
4	21-2021	Directors, Religious Activities and Education	10,100	10,700
4	21-2099	Religious Workers, All Other	4,000	4,300
2	23-0000	Legal Occupations	164,300	178,500
3	23-1000	Lawyers, Judges, and Related Workers	113,500	122,300
4	23-1011	Lawyers	106,100	114,700
4	23-1012	Judicial Law Clerks	3,100	3,200
4	23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	1,900	1,900
4	23-1023	Judges, Magistrate Judges, and Magistrates	1,700	1,700
3	23-2000	Legal Support Workers	50,900	56,200
4	23-2011	Paralegals and Legal Assistants	36,500	41,500
4	23-2091	Court Reporters	1,500	1,500
4	23-2093	Title Examiners, Abstractors, and Searchers	4,100	4,200
4	23-2099	Legal Support Workers, All Other	8,800	9,000
2	25-0000	Education, Training, and Library Occupations	1,104,600	1,188,200
3	25-1000	Postsecondary Teachers	215,900	240,800
4	25-1011	Business Teachers, Postsecondary	6,700	7,700
4	25-1021	Computer Science Teachers, Postsecondary	2,500	2,600
4	25-1022	Mathematical Science Teachers, Postsecondary	5,800	6,100
4	25-1032	Engineering Teachers, Postsecondary	3,100	3,500
4	25-1042	Biological Science Teachers, Postsecondary	4,400	5,000
4	25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	1,500	1,600
4	25-1052	Chemistry Teachers, Postsecondary	1,900	2,100
4	25-1054	Physics Teachers, Postsecondary	1,100	1,200
4	25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	1,400	1,600
4	25-1065	Political Science Teachers, Postsecondary	1,300	1,400
4	25-1066	Psychology Teachers, Postsecondary	6,300	7,200
4	25-1067	Sociology Teachers, Postsecondary	1,100	1,200
4	25-1069	Social Sciences Teachers, Postsecondary, All Other	2,100	2,200
4	25-1071	Health Specialties Teachers, Postsecondary	11,900	15,500
4	25-1072	Nursing Instructors and Teachers, Postsecondary	4,900	6,200
4	25-1081	Education Teachers, Postsecondary	4,200	4,600
4	25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	1,300	1,400
4	25-1112	Law Teachers, Postsecondary	2,200	2,500
4	25-1121	Art, Drama, and Music Teachers, Postsecondary	11,900	13,200
4	25-1122	Communications Teachers, Postsecondary	2,400	2,500

Interpolated 2020 Employment Estimate	Extrapolated 2030 Employment Estimate	Extrapolated 2040 Employment Estimate	Extrapolated 2050 Employment Estimate
4,740	5,440	6,140	6,840
49,060	55,360	61,660	67,960
3,780	4,180	4,580	4,980
10,960	12,760	14,560	16,360
7,240	7,940	8,640	9,340
1,120	1,220	1,320	1,420
2,820	3,420	4,020	4,620
3,780	4,180	4,580	4,980
2,260	2,560	2,860	3,160
6,860	7,160	7,460	7,760
10,100	11,600	13,100	14,600
355,980	398,880	441,780	484,680
325,340	366,040	406,740	447,440
40,520	45,120	49,720	54,320
36,540	44,740	52,940	61,140
17,840	19,540	21,240	22,940
38,680	45,580	52,480	59,380
6,000	7,000	8,000	9,000
34,200	36,200	38,200	40,200
21,520	25,120	28,720	32,320
16,360	18,660	20,960	23,260
12,680	13,580	14,480	15,380
7,700	8,700	9,700	10,700
13,480	13,880	14,280	14,680
56,580	62,480	68,380	74,280
6,040	6,740	7,440	8,140
17,280	18,680	20,080	21,480
30,660	32,960	35,260	37,560
16,460	17,760	19,060	20,360
10,220	10,820	11,420	12,020
4,060	4,360	4,660	4,960
167,140	181,340	195,540	209,740
115,260	124,060	132,860	141,660
107,820	116,420	125,020	133,620
3,120	3,220	3,320	3,420
1,900	1,900	1,900	1,900
1,700	1,700	1,700	1,700
51,960	57,260	62,560	67,860
37,500	42,500	47,500	52,500
1,500	1,500	1,500	1,500
4,120	4,220	4,320	4,420
8,840	9,040	9,240	9,440
1,121,320	1,204,920	1,288,520	1,372,120
220,880	245,780	270,680	295,580
6,900	7,900	8,900	9,900
2,520	2,620	2,720	2,820
5,860	6,160	6,460	6,760
3,180	3,580	3,980	4,380
4,520	5,120	5,720	6,320
1,520	1,620	1,720	1,820
1,940	2,140	2,340	2,540
1,120	1,220	1,320	1,420
1,440	1,640	1,840	2,040
1,320	1,420	1,520	1,620
6,480	7,380	8,280	9,180
1,120	1,220	1,320	1,420
2,120	2,220	2,320	2,420
12,620	16,220	19,820	23,420
5,160	6,460	7,760	9,060
4,280	4,680	5,080	5,480
1,320	1,420	1,520	1,620
2,260	2,560	2,860	3,160
12,160	13,460	14,760	16,060
2,420	2,520	2,620	2,720

Removed jobs from: 11-9013 Farmers, Ranchers, and Other Agricultural Managers; 19-4041 Geological and Petroleum Technicians; 19-4093 Forest and Conservation Technicians; 45-000 Farming, Fishing, and Forestry Occupations; 47-5000 Extraction Workers; 49-3011 Aircraft Mechanics and Service Technicians; 49-3041 Farm Equipment Mechanics and Service Technicians; 49-9041 Industrial Machinery Mechanics; 49-9043 Maintenance Workers, Machinery; 49-9044 Millwrights; 51-0000 Production Occupations; 53-2000 Air Transportation Workers; 53-4000 Rail Transportation Workers; and 53-5000 Water Transportation Workers.

2018-2028 Occupational Employment Projections

California
Statewide

SOC Level ^[1]	SOC Code ^[2]	Occupational Title	Base Year Employment Estimate 2018 ^[3]	Projected Year Employment Estimate 2028
4	25-1123	English Language and Literature Teachers, Postsecondary	7,500	7,900
4	25-1124	Foreign Language and Literature Teachers, Postsecondary	3,400	3,800
4	25-1125	History Teachers, Postsecondary	1,600	1,800
4	25-1126	Philosophy and Religion Teachers, Postsecondary	3,900	4,400
4	25-1191	Graduate Teaching Assistants	10,500	11,500
4	25-1193	Recreation and Fitness Studies Teachers, Postsecondary	2,300	2,400
4	25-1194	Vocational Education Teachers, Postsecondary	10,800	11,600
4	25-1199	Postsecondary Teachers, All Other	92,800	102,700
3	25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	471,500	498,200
4	25-2011	Preschool Teachers, Except Special Education	63,600	70,000
4	25-2012	Kindergarten Teachers, Except Special Education	11,200	11,800
4	25-2021	Elementary School Teachers, Except Special Education	187,300	196,500
4	25-2022	Middle School Teachers, Except Special and Career/Technical Education	44,900	47,200
4	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	124,000	130,300
4	25-2032	Career/Technical Education Teachers, Secondary School	3,500	3,600
4	25-2052	Special Education Teachers, Kindergarten and Elementary School	17,400	18,100
4	25-2053	Special Education Teachers, Middle School	2,400	2,500
4	25-2054	Special Education Teachers, Secondary School	7,700	8,100
4	25-2059	Special Education Teachers, All Other	8,300	9,100
3	25-3000	Other Teachers and Instructors	203,700	221,800
4	25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	10,400	9,400
4	25-3021	Self-Enrichment Education Teachers	45,000	52,000
4	25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	70,500	78,700
4	25-3098	Substitute Teachers	77,800	81,700
3	25-4000	Librarians, Curators, and Archivists	22,300	23,300
4	25-4012	Curators	1,400	1,600
4	25-4013	Museum Technicians and Conservators	2,200	2,600
4	25-4021	Librarians	6,000	6,300
4	25-4031	Library Technicians	12,100	12,000
3	25-9000	Other Education, Training, and Library Occupations	191,200	204,000
4	25-9031	Instructional Coordinators	24,600	26,800
4	25-9041	Teacher Assistants	123,200	130,200
4	25-9099	Education, Training, and Library Workers, All Other	42,600	46,100
2	27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	483,500	520,200
3	27-1000	Art and Design Workers	168,500	178,000
4	27-1011	Art Directors	21,500	22,200
4	27-1012	Craft Artists	1,200	1,300
4	27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	6,100	6,300
4	27-1014	Multimedia Artists and Animators	31,900	35,400
4	27-1019	Artists and Related Workers, All Other	1,100	1,200
4	27-1021	Commercial and Industrial Designers	5,300	5,500
4	27-1022	Fashion Designers	9,900	10,500
4	27-1023	Floral Designers	6,400	6,100
4	27-1024	Graphic Designers	39,500	41,500
4	27-1025	Interior Designers	12,500	12,800
4	27-1026	Merchandise Displayers and Window Trimmers	25,700	27,200
4	27-1027	Set and Exhibit Designers	4,100	4,500
4	27-1029	Designers, All Other	3,300	3,600
3	27-2000	Entertainers and Performers, Sports and Related Workers	133,000	143,700
4	27-2011	Actors	27,100	27,800
4	27-2012	Producers and Directors	44,200	48,800
4	27-2022	Coaches and Scouts	32,300	36,500
4	27-2023	Umpires, Referees, and Other Sports Officials	2,400	2,600
4	27-2031	Dancers	2,000	2,000
4	27-2041	Music Directors and Composers	2,500	2,500
4	27-2042	Musicians and Singers	14,300	14,500
4	27-2099	Entertainers and Performers, Sports and Related Workers, All Other	7,000	7,600
3	27-3000	Media and Communication Workers	105,300	112,900
4	27-3011	Radio and Television Announcers	4,200	4,100
4	27-3012	Public Address System and Other Announcers	1,200	1,300

Interpolated 2020 Employment Estimate	Extrapolated 2030 Employment Estimate	Extrapolated 2040 Employment Estimate	Extrapolated 2050 Employment Estimate
7,580	7,980	8,380	8,780
3,480	3,880	4,280	4,680
1,640	1,840	2,040	2,240
4,000	4,500	5,000	5,500
10,700	11,700	12,700	13,700
2,320	2,420	2,520	2,620
10,960	11,760	12,560	13,360
94,780	104,680	114,580	124,480
476,840	503,540	530,240	556,940
64,880	71,280	77,680	84,080
11,320	11,920	12,520	13,120
189,140	198,340	207,540	216,740
45,360	47,660	49,960	52,260
125,260	131,560	137,860	144,160
3,520	3,620	3,720	3,820
17,540	18,240	18,940	19,640
2,420	2,520	2,620	2,720
7,780	8,180	8,580	8,980
8,460	9,260	10,060	10,860
207,320	225,420	243,520	261,620
10,200	9,200	8,200	7,200
46,400	53,400	60,400	67,400
72,140	80,340	88,540	96,740
78,580	82,480	86,380	90,280
22,500	23,500	24,500	25,500
1,440	1,640	1,840	2,040
2,280	2,680	3,080	3,480
6,060	6,360	6,660	6,960
12,080	11,980	11,880	11,780
193,760	206,560	219,360	232,160
25,040	27,240	29,440	31,640
124,600	131,600	138,600	145,600
43,300	46,800	50,300	53,800
490,840	527,540	564,240	600,940
170,400	179,900	189,400	198,900
21,640	22,340	23,040	23,740
1,220	1,320	1,420	1,520
6,140	6,340	6,540	6,740
32,600	36,100	39,600	43,100
1,120	1,220	1,320	1,420
5,340	5,540	5,740	5,940
10,020	10,620	11,220	11,820
6,340	6,040	5,740	5,440
39,900	41,900	43,900	45,900
12,560	12,860	13,160	13,460
26,000	27,500	29,000	30,500
4,180	4,580	4,980	5,380
3,360	3,660	3,960	4,260
135,140	145,840	156,540	167,240
27,240	27,940	28,640	29,340
45,120	49,720	54,320	58,920
33,140	37,340	41,540	45,740
2,440	2,640	2,840	3,040
2,000	2,000	2,000	2,000
2,500	2,500	2,500	2,500
14,340	14,540	14,740	14,940
7,120	7,720	8,320	8,920
106,820	114,420	122,020	129,620
4,180	4,080	3,980	3,880
1,220	1,320	1,420	1,520

Removed jobs from: 11-9013 Farmers, Ranchers, and Other Agricultural Managers; 19-4041 Geological and Petroleum Technicians; 19-4093 Forest and Conservation Technicians; 45-000 Farming, Fishing, and Forestry Occupations; 47-5000 Extraction Workers; 49-3011 Aircraft Mechanics and Service Technicians; 49-3041 Farm Equipment Mechanics and Service Technicians; 49-9041 Industrial Machinery Mechanics; 49-9043 Maintenance Workers, Machinery; 49-9044 Millwrights; 51-0000 Production Occupations; 53-2000 Air Transportation Workers; 53-4000 Rail Transportation Workers; and 53-5000 Water Transportation Workers.

2018-2028 Occupational Employment Projections

California
Statewide

SOC Level ^[1]	SOC Code ^[2]	Occupational Title	Base Year Employment Estimate 2018 ^[3]	Projected Year Employment Estimate 2028
4	27-3022	Reporters and Correspondents	3,300	2,800
4	27-3031	Public Relations Specialists	29,900	32,600
4	27-3041	Editors	14,900	15,100
4	27-3042	Technical Writers	7,700	8,700
4	27-3043	Writers and Authors	21,300	22,200
4	27-3091	Interpreters and Translators	10,900	13,000
4	27-3099	Media and Communication Workers, All Other	11,300	12,700
3	27-4000	Media and Communication Equipment Workers	76,700	85,600
4	27-4011	Audio and Video Equipment Technicians	16,100	18,500
4	27-4012	Broadcast Technicians	4,300	4,600
4	27-4014	Sound Engineering Technicians	4,700	5,100
4	27-4021	Photographers	18,500	19,500
4	27-4031	Camera Operators, Television, Video, and Motion Picture	6,400	7,400
4	27-4032	Film and Video Editors	15,400	18,200
4	27-4099	Media and Communication Equipment Workers, All Other	11,300	12,400
2	29-0000	Healthcare Practitioners and Technical Occupations	873,400	1,015,700
3	29-1000	Health Diagnosing and Treating Practitioners	561,700	655,400
4	29-1011	Chiropractors	4,400	4,800
4	29-1021	Dentists, General	20,200	22,500
4	29-1031	Dietitians and Nutritionists	8,700	10,000
4	29-1041	Optometrists	4,700	5,400
4	29-1051	Pharmacists	33,300	35,300
4	29-1061	Anesthesiologists	2,800	2,900
4	29-1062	Family and General Practitioners	9,500	10,500
4	29-1063	Internists, General	1,800	1,800
4	29-1064	Obstetricians and Gynecologists	1,300	1,400
4	29-1065	Pediatricians, General	3,400	3,500
4	29-1066	Psychiatrists	2,300	2,500
4	29-1067	Surgeons	2,100	2,000
4	29-1069	Physicians and Surgeons, All Other	27,800	30,000
4	29-1071	Physician Assistants	11,700	15,700
4	29-1081	Podiatrists	1,100	1,200
4	29-1122	Occupational Therapists	10,600	12,600
4	29-1123	Physical Therapists	23,700	29,000
4	29-1124	Radiation Therapists	1,200	1,400
4	29-1125	Recreational Therapists	1,700	1,800
4	29-1126	Respiratory Therapists	17,600	22,500
4	29-1127	Speech-Language Pathologists	16,200	20,900
4	29-1128	Exercise Physiologists	1,100	1,300
4	29-1129	Therapists, All Other	1,900	2,300
4	29-1131	Veterinarians	8,700	10,500
4	29-1141	Registered Nurses	319,800	373,200
4	29-1151	Nurse Anesthetists	1,300	1,700
4	29-1171	Nurse Practitioners	15,100	19,700
4	29-1181	Audiologists	1,000	1,200
4	29-1199	Health Diagnosing and Treating Practitioners, All Other	4,000	4,700
3	29-2000	Health Technologists and Technicians	296,300	342,900
4	29-2010	Clinical Laboratory Technologists and Technicians	28,500	34,000
4	29-2021	Dental Hygienists	15,700	18,100
4	29-2031	Cardiovascular Technologists and Technicians	5,000	5,800
4	29-2032	Diagnostic Medical Sonographers	6,900	8,800
4	29-2033	Nuclear Medicine Technologists	1,400	1,600
4	29-2034	Radiologic Technologists	18,000	20,900
4	29-2035	Magnetic Resonance Imaging Technologists	3,200	3,900
4	29-2041	Emergency Medical Technicians and Paramedics	16,800	18,600
4	29-2051	Dietetic Technicians	5,900	6,600
4	29-2052	Pharmacy Technicians	37,600	42,600
4	29-2053	Psychiatric Technicians	10,300	11,200
4	29-2055	Surgical Technologists	9,800	11,100
4	29-2056	Veterinary Technologists and Technicians	9,900	12,000
4	29-2057	Ophthalmic Medical Technicians	3,900	4,500
4	29-2061	Licensed Practical and Licensed Vocational Nurses	76,600	88,200
4	29-2071	Medical Records and Health Information Technicians	15,600	17,600
4	29-2081	Opticians, Dispensing	8,200	9,100
4	29-2099	Health Technologists and Technicians, All Other	20,900	25,900
3	29-9000	Other Healthcare Practitioners and Technical Occupations	15,400	17,400
4	29-9011	Occupational Health and Safety Specialists	6,000	6,500
4	29-9012	Occupational Health and Safety Technicians	1,200	1,300
4	29-9091	Athletic Trainers	1,600	2,000
4	29-9099	Healthcare Practitioners and Technical Workers, All Other	6,300	7,100

Interpolated 2020 Employment Estimate	Extrapolated 2030 Employment Estimate	Extrapolated 2040 Employment Estimate	Extrapolated 2050 Employment Estimate
3,200	2,700	2,200	1,700
30,440	33,140	35,840	38,540
14,940	15,140	15,340	15,540
7,900	8,900	9,900	10,900
21,480	22,380	23,280	24,180
11,320	13,420	15,520	17,620
11,580	12,980	14,380	15,780
78,480	87,380	96,280	105,180
16,580	18,980	21,380	23,780
4,360	4,660	4,960	5,260
4,780	5,180	5,580	5,980
18,700	19,700	20,700	21,700
6,600	7,600	8,600	9,600
15,960	18,760	21,560	24,360
11,520	12,620	13,720	14,820
901,860	1,044,160	1,186,460	1,328,760
580,440	674,140	767,840	861,540
4,480	4,880	5,280	5,680
20,660	22,960	25,260	27,560
8,960	10,260	11,560	12,860
4,840	5,540	6,240	6,940
33,700	35,700	37,700	39,700
2,820	2,920	3,020	3,120
9,700	10,700	11,700	12,700
1,800	1,800	1,800	1,800
1,320	1,420	1,520	1,620
3,420	3,520	3,620	3,720
2,340	2,540	2,740	2,940
2,080	1,980	1,880	1,780
28,240	30,440	32,640	34,840
12,500	16,500	20,500	24,500
1,120	1,220	1,320	1,420
11,000	13,000	15,000	17,000
24,760	30,060	35,360	40,660
1,240	1,440	1,640	1,840
1,720	1,820	1,920	2,020
18,580	23,480	28,380	33,280
17,140	21,840	26,540	31,240
1,140	1,340	1,540	1,740
1,980	2,380	2,780	3,180
9,060	10,860	12,660	14,460
330,480	383,880	437,280	490,680
1,380	1,780	2,180	2,580
16,020	20,620	25,220	29,820
1,040	1,240	1,440	1,640
4,140	4,840	5,540	6,240
305,620	352,220	398,820	445,420
29,600	35,100	40,600	46,100
16,180	18,580	20,980	23,380
5,160	5,960	6,760	7,560
7,280	9,180	11,080	12,980
1,440	1,640	1,840	2,040
18,580	21,480	24,380	27,280
3,340	4,040	4,740	5,440
17,160	18,960	20,760	22,560
6,040	6,740	7,440	8,140
38,600	43,600	48,600	53,600
10,480	11,380	12,280	13,180
10,060	11,360	12,660	13,960
10,320	12,420	14,520	16,620
4,020	4,620	5,220	5,820
78,920	90,520	102,120	113,720
16,000	18,000	20,000	22,000
8,380	9,280	10,180	11,080
21,900	26,900	31,900	36,900
15,800	17,800	19,800	21,800
6,100	6,600	7,100	7,600
1,220	1,320	1,420	1,520
1,680	2,080	2,480	2,880
6,460	7,260	8,060	8,860

Removed jobs from: 11-9013 Farmers, Ranchers, and Other Agricultural Managers; 19-4041 Geological and Petroleum Technicians; 19-4093 Forest and Conservation Technicians; 45-000 Farming, Fishing, and Forestry Occupations; 47-5000 Extraction Workers; 49-3011 Aircraft Mechanics and Service Technicians; 49-3041 Farm Equipment Mechanics and Service Technicians; 49-9041 Industrial Machinery Mechanics; 49-9043 Maintenance Workers, Machinery; 49-9044 Millwrights; 51-0000 Production Occupations; 53-2000 Air Transportation Workers; 53-4000 Rail Transportation Workers; and 53-5000 Water Transportation Workers.

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SOC Level ^[1]	SOC Code ^[2]	Occupational Title	Base Year Employment Estimate 2018 ^{[3][4]}	Projected Year Employment Estimate 2028
2	31-0000	Healthcare Support Occupations	361,700	427,200
3	31-1000	Nursing, Psychiatric, and Home Health Aides	98,700	113,500
4	31-1011	Home Health Aides	18,400	21,900
4	31-1013	Psychiatric Aides	1,100	1,200
4	31-1014	Nursing Assistants	76,000	86,900
4	31-1015	Orderlies	3,100	3,500
3	31-2000	Occupational Therapy and Physical Therapist Assistants and Aides	16,700	21,500
4	31-2011	Occupational Therapy Assistants	2,600	3,700
4	31-2021	Physical Therapist Assistants	5,900	7,600
4	31-2022	Physical Therapist Aides	7,200	9,100
3	31-9000	Other Healthcare Support Occupations	246,400	292,200
4	31-9011	Massage Therapists	23,800	27,700
4	31-9091	Dental Assistants	59,300	68,400
4	31-9092	Medical Assistants	101,600	126,500
4	31-9093	Medical Equipment Preparers	7,900	9,000
4	31-9094	Medical Transcriptionists	5,900	5,600
4	31-9095	Pharmacy Aides	9,000	8,600
4	31-9096	Veterinary Assistants and Laboratory Animal Caretakers	12,600	15,300
4	31-9097	Phlebotomists	13,500	17,100
4	31-9099	Healthcare Support Workers, All Other	12,700	13,900
2	33-0000	Protective Service Occupations	409,700	425,900
3	33-1000	Supervisors of Protective Service Workers	21,100	21,300
4	33-1011	First-Line Supervisors of Correctional Officers	4,900	4,400
4	33-1012	First-Line Supervisors of Police and Detectives	5,100	5,300
4	33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	3,000	3,100
3	33-2000	Fire Fighting and Prevention Workers	34,900	36,300
4	33-2011	Firefighters	33,800	35,100
3	33-3000	Law Enforcement Workers	124,000	123,500
4	33-3012	Correctional Officers and Jailers	36,600	33,400
4	33-3021	Detectives and Criminal Investigators	12,400	12,800
4	33-3041	Parking Enforcement Workers	1,200	800
4	33-3051	Police and Sheriff's Patrol Officers	72,700	75,400
3	33-9000	Other Protective Service Workers	229,700	244,800
4	33-9011	Animal Control Workers	1,400	1,500
4	33-9021	Private Detectives and Investigators	3,700	4,000
4	33-9031	Gaming Surveillance Officers and Gaming Investigators	1,100	1,300
4	33-9032	Security Guards	166,900	177,900
4	33-9091	Crossing Guards	6,000	6,300
4	33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	15,700	16,900
4	33-9093	Transportation Security Screeners	6,400	6,800
4	33-9099	Protective Service Workers, All Other	28,500	30,100
2	35-0000	Food Preparation and Serving Related Occupations	1,603,100	1,836,200
3	35-1000	Supervisors of Food Preparation and Serving Workers	127,300	147,700
4	35-1011	Chefs and Head Cooks	23,700	27,500
4	35-1012	First-Line Supervisors of Food Preparation and Serving Workers	103,600	120,200
3	35-2000	Cooks and Food Preparation Workers	495,700	563,700
4	35-2011	Cooks, Fast Food	129,100	124,500
4	35-2012	Cooks, Institution and Cafeteria	28,500	30,900
4	35-2013	Cooks, Private Household	2,600	2,900
4	35-2014	Cooks, Restaurant	190,700	243,700
4	35-2015	Cooks, Short Order	20,700	21,600
4	35-2019	Cooks, All Other	5,600	5,800
4	35-2021	Food Preparation Workers	118,600	134,300
3	35-3000	Food and Beverage Serving Workers	733,800	847,200
4	35-3011	Bartenders	73,100	82,400
4	35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	292,100	357,500
4	35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	32,200	34,100
4	35-3031	Waiters and Waitresses	307,800	341,400
4	35-3041	Food Servers, Nonrestaurant	28,500	31,700
3	35-9000	Other Food Preparation and Serving Related Workers	246,300	277,600
4	35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	81,000	93,300
4	35-9021	Dishwashers	89,300	96,000
4	35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	50,600	58,900
4	35-9099	Food Preparation and Serving Related Workers, All Other	25,400	29,400

Interpolated 2020 Employment Estimate	Extrapolated 2030 Employment Estimate	Extrapolated 2040 Employment Estimate	Extrapolated 2050 Employment Estimate
374,800	440,300	505,800	571,300
101,660	116,460	131,260	146,060
19,100	22,600	26,100	29,600
1,120	1,220	1,320	1,420
78,180	89,080	99,980	110,880
3,180	3,580	3,980	4,380
17,660	22,460	27,260	32,060
2,820	3,920	5,020	6,120
6,240	7,940	9,640	11,340
7,580	9,480	11,380	13,280
255,560	301,360	347,160	392,960
24,580	28,480	32,380	36,280
61,120	70,220	79,320	88,420
106,580	131,480	156,380	181,280
8,120	9,220	10,320	11,420
5,840	5,540	5,240	4,940
8,920	8,520	8,120	7,720
13,140	15,840	18,540	21,240
14,220	17,820	21,420	25,020
12,940	14,140	15,340	16,540
412,940	429,140	445,340	461,540
21,140	21,340	21,540	21,740
4,800	4,300	3,800	3,300
5,140	5,340	5,540	5,740
3,020	3,120	3,220	3,320
35,180	36,580	37,980	39,380
34,060	35,360	36,660	37,960
123,900	123,400	122,900	122,400
35,960	32,760	29,560	26,360
12,480	12,880	13,280	13,680
1,120	720	320	-80
73,240	75,940	78,640	81,340
232,720	247,820	262,920	278,020
1,420	1,520	1,620	1,720
3,760	4,060	4,360	4,660
1,140	1,340	1,540	1,740
169,100	180,100	191,100	202,100
6,060	6,360	6,660	6,960
15,940	17,140	18,340	19,540
6,480	6,880	7,280	7,680
28,820	30,420	32,020	33,620
1,649,720	1,882,820	2,115,920	2,349,020
131,380	151,780	172,180	192,580
24,460	28,260	32,060	35,860
106,920	123,520	140,120	156,720
509,300	577,300	645,300	713,300
128,180	123,580	118,980	114,380
28,980	31,380	33,780	36,180
2,660	2,960	3,260	3,560
201,300	254,300	307,300	360,300
20,880	21,780	22,680	23,580
5,640	5,840	6,040	6,240
121,740	137,440	153,140	168,840
756,480	869,880	983,280	1,096,680
74,960	84,260	93,560	102,860
305,180	370,580	435,980	501,380
32,580	34,480	36,380	38,280
314,520	348,120	381,720	415,320
29,140	32,340	35,540	38,740
252,560	283,860	315,160	346,460
83,460	95,760	108,060	120,360
90,640	97,340	104,040	110,740
52,260	60,560	68,860	77,160
26,200	30,200	34,200	38,200

Removed jobs from: 11-9013 Farmers, Ranchers, and Other Agricultural Managers; 19-4041 Geological and Petroleum Technicians; 19-4093 Forest and Conservation Technicians; 45-0000 Farming, Fishing, and Forestry Occupations; 47-5000 Extraction Workers; 49-3011 Aircraft Mechanics and Service Technicians; 49-3041 Farm Equipment Mechanics and Service Technicians; 49-9041 Industrial Machinery Mechanics; 49-9043 Maintenance Workers, Machinery; 49-9044 Millwrights; 51-0000 Production Occupations; 53-2000 Air Transportation Workers; 53-4000 Rail Transportation Workers; and 53-5000 Water Transportation Workers.

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SOC Level ^[1]	SOC Code ^[2]	Occupational Title	Base Year Employment Estimate 2018 ^[3]	Projected Year Employment Estimate 2028
2	37-0000	Building and Grounds Cleaning and Maintenance Occupations	601,200	651,100
3	37-1000	Supervisors of Building and Grounds Cleaning and Maintenance Workers	41,100	45,100
4	37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	21,100	23,000
4	37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	20,000	22,100
3	37-2000	Building Cleaning and Pest Control Workers	403,000	431,600
4	37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	255,900	280,500
4	37-2012	Maids and Housekeeping Cleaners	134,900	137,800
4	37-2021	Pest Control Workers	10,900	11,900
3	37-3000	Grounds Maintenance Workers	157,100	174,300
4	37-3011	Landscaping and Groundskeeping Workers	139,100	154,300
4	37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	4,200	4,500
4	37-3013	Tree Trimmers and Pruners	11,200	12,500
4	37-3019	Grounds Maintenance Workers, All Other	2,700	3,000
2	39-0000	Personal Care and Service Occupations	1,098,200	1,331,700
3	39-1000	Supervisors of Personal Care and Service Workers	34,400	38,700
4	39-1010	First-Line Supervisors of Gaming Workers	5,200	6,200
4	39-1021	First-Line Supervisors of Personal Service Workers	29,200	32,500
3	39-2000	Animal Care and Service Workers	35,500	41,900
4	39-2011	Animal Trainers	4,100	4,800
4	39-2021	Nonfarm Animal Caretakers	31,400	37,100
3	39-3000	Entertainment Attendants and Related Workers	97,000	106,800
4	39-3011	Gaming Dealers	16,500	18,500
4	39-3012	Gaming and Sports Book Writers and Runners	1,800	2,000
4	39-3019	Gaming Service Workers, All Other	1,900	2,100
4	39-3031	Ushers, Lobby Attendants, and Ticket Takers	17,500	18,400
4	39-3091	Amusement and Recreation Attendants	53,500	59,500
4	39-3092	Costume Attendants	2,300	2,600
4	39-3093	Locker Room, Coatroom, and Dressing Room Attendants	2,300	2,500
3	39-4000	Funeral Service Workers	4,100	4,600
4	39-4021	Funeral Attendants	2,200	2,400
4	39-4031	Morticians, Undertakers, and Funeral Directors	1,400	1,600
3	39-5000	Personal Appearance Workers	116,300	124,400
4	39-5011	Barbers	3,200	3,400
4	39-5012	Hairdressers, Hairstylists, and Cosmetologists	66,200	70,600
4	39-5091	Makeup Artists, Theatrical and Performance	2,600	2,800
4	39-5092	Manicurists and Pedicurists	32,000	34,200
4	39-5094	Skincare Specialists	11,800	12,800
3	39-6000	Baggage Porters, Bellhops, and Concierges	10,100	11,000
4	39-6011	Baggage Porters and Bellhops	5,600	6,100
4	39-6012	Concierges	4,500	4,900
3	39-7000	Tour and Travel Guides	7,600	7,900
4	39-7010	Tour and Travel Guides	7,600	7,900
3	39-9000	Other Personal Care and Service Workers	793,200	996,500
4	39-9011	Childcare Workers	96,700	100,800
4	39-9021	Personal Care Aides	577,700	763,000
4	39-9031	Fitness Trainers and Aerobics Instructors	46,900	53,900
4	39-9032	Recreation Workers	54,000	58,900
4	39-9041	Residential Advisors	9,200	10,200
4	39-9099	Personal Care and Service Workers, All Other	8,500	9,800
2	41-0000	Sales and Related Occupations	1,788,300	1,807,800
3	41-1000	Supervisors of Sales Workers	201,100	200,300
4	41-1011	First-Line Supervisors of Retail Sales Workers	160,100	159,500
4	41-1012	First-Line Supervisors of Non-Retail Sales Workers	41,000	40,700
3	41-2000	Retail Sales Workers	1,012,800	1,001,600
4	41-2011	Cashiers	455,400	448,700
4	41-2012	Gaming Change Persons and Booth Cashiers	2,900	3,200
4	41-2021	Counter and Rental Clerks	83,600	87,500
4	41-2022	Parts Salespersons	26,700	27,200
4	41-2031	Retail Salespersons	444,100	435,000
3	41-3000	Sales Representatives, Services	242,200	255,600
4	41-3011	Advertising Sales Agents	19,800	20,400
4	41-3021	Insurance Sales Agents	48,300	52,200
4	41-3031	Securities, Commodities, and Financial Services Sales Agents	63,300	65,000
4	41-3041	Travel Agents	10,400	7,200
4	41-3099	Sales Representatives, Services, All Other	100,400	110,800
3	41-4000	Sales Representatives, Wholesale and Manufacturing	202,500	212,800

Interpolated 2020 Employment Estimate	Extrapolated 2030 Employment Estimate	Extrapolated 2040 Employment Estimate	Extrapolated 2050 Employment Estimate
611,180	661,080	710,980	760,880
41,900	45,900	49,900	53,900
21,480	23,380	25,280	27,180
20,420	22,520	24,620	26,720
408,720	437,320	465,920	494,520
260,820	285,420	310,020	334,620
135,480	138,380	141,280	144,180
11,100	12,100	13,100	14,100
160,540	177,740	194,940	212,140
142,140	157,340	172,540	187,740
4,260	4,560	4,860	5,160
11,460	12,760	14,060	15,360
2,760	3,060	3,360	3,660
1,144,900	1,378,400	1,611,900	1,845,400
35,260	39,560	43,860	48,160
5,400	6,400	7,400	8,400
29,860	33,160	36,460	39,760
36,780	43,180	49,580	55,980
4,240	4,940	5,640	6,340
32,540	38,240	43,940	49,640
98,960	108,760	118,560	128,360
16,900	18,900	20,900	22,900
1,840	2,040	2,240	2,440
1,940	2,140	2,340	2,540
17,680	18,580	19,480	20,380
54,700	60,700	66,700	72,700
2,360	2,660	2,960	3,260
2,340	2,540	2,740	2,940
4,200	4,700	5,200	5,700
2,240	2,440	2,640	2,840
1,440	1,640	1,840	2,040
117,920	126,020	134,120	142,220
3,240	3,440	3,640	3,840
67,080	71,480	75,880	80,280
2,640	2,840	3,040	3,240
32,440	34,640	36,840	39,040
12,000	13,000	14,000	15,000
10,280	11,180	12,080	12,980
5,700	6,200	6,700	7,200
4,580	4,980	5,380	5,780
7,660	7,960	8,260	8,560
7,660	7,960	8,260	8,560
833,860	1,037,160	1,240,460	1,443,760
97,520	101,620	105,720	109,820
614,760	800,060	985,360	1,170,660
48,300	55,300	62,300	69,300
54,980	59,880	64,780	69,680
9,400	10,400	11,400	12,400
8,760	10,060	11,360	12,660
1,792,200	1,811,700	1,831,200	1,850,700
200,940	200,140	199,340	198,540
159,980	159,380	158,780	158,180
40,940	40,640	40,340	40,040
1,010,560	999,360	988,160	976,960
454,060	447,360	440,660	433,960
2,960	3,260	3,560	3,860
84,380	88,280	92,180	96,080
26,800	27,300	27,800	28,300
442,280	433,180	424,080	414,980
244,880	258,280	271,680	285,080
19,920	20,520	21,120	21,720
49,080	52,980	56,880	60,780
63,640	65,340	67,040	68,740
9,760	6,560	3,360	160
102,480	112,880	123,280	133,680
204,560	214,860	225,160	235,460

Removed jobs from: 11-9013 Farmers, Ranchers, and Other Agricultural Managers; 19-4041 Geological and Petroleum Technicians; 19-4093 Forest and Conservation Technicians; 45-000 Farming, Fishing, and Forestry Occupations; 47-5000 Extraction Workers; 49-3011 Aircraft Mechanics and Service Technicians; 49-3041 Farm Equipment Mechanics and Service Technicians; 49-9041 Industrial Machinery Mechanics; 49-9043 Maintenance Workers, Machinery; 49-9044 Millwrights; 51-0000 Production Occupations; 53-2000 Air Transportation Workers; 53-4000 Rail Transportation Workers; and 53-5000 Water Transportation Workers.

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SOC Level ^[1]	SOC Code ^[2]	Occupational Title	Base Year Employment Estimate 2018 ^[3]	Projected Year Employment Estimate 2028
4	41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	43,200	46,600
4	41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	159,300	166,200
3	41-9000	Other Sales and Related Workers	129,600	137,500
4	41-9011	Demonstrators and Product Promoters	19,200	21,500
4	41-9021	Real Estate Brokers	14,400	15,500
4	41-9022	Real Estate Sales Agents	22,300	24,000
4	41-9031	Sales Engineers	12,800	14,200
4	41-9041	Telemarketers	12,400	10,900
4	41-9091	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	14,300	13,600
4	41-9099	Sales and Related Workers, All Other	33,800	37,300
2	43-0000	Office and Administrative Support Occupations	2,481,000	2,475,500
3	43-1000	Supervisors of Office and Administrative Support Workers	178,600	181,700
4	43-1011	First-Line Supervisors of Office and Administrative Support Workers	178,600	181,700
3	43-2000	Communications Equipment Operators	13,800	11,300
4	43-2011	Switchboard Operators, Including Answering Service	12,600	10,200
3	43-3000	Financial Clerks	358,700	351,000
4	43-3011	Bill and Account Collectors	21,600	20,300
4	43-3021	Billing and Posting Clerks	54,800	60,100
4	43-3031	Bookkeeping, Accounting, and Auditing Clerks	200,100	194,900
4	43-3041	Gaming Cage Workers	3,200	3,600
4	43-3051	Payroll and Timekeeping Clerks	23,300	22,700
4	43-3061	Procurement Clerks	7,400	7,100
4	43-3071	Tellers	43,500	37,100
4	43-3099	Financial Clerks, All Other	4,900	5,200
3	43-4000	Information and Record Clerks	543,000	547,200
4	43-4011	Brokerage Clerks	4,900	5,200
4	43-4021	Correspondence Clerks	1,400	1,400
4	43-4031	Court, Municipal, and License Clerks	12,600	12,800
4	43-4041	Credit Authorizers, Checkers, and Clerks	2,300	2,200
4	43-4051	Customer Service Representatives	220,200	218,300
4	43-4061	Eligibility Interviewers, Government Programs	21,400	22,200
4	43-4071	File Clerks	14,000	12,300
4	43-4081	Hotel, Motel, and Resort Desk Clerks	26,700	25,500
4	43-4111	Interviewers, Except Eligibility and Loan	20,700	22,000
4	43-4121	Library Assistants, Clerical	9,300	9,000
4	43-4131	Loan Interviewers and Clerks	19,900	21,100
4	43-4141	New Accounts Clerks	3,100	2,800
4	43-4151	Order Clerks	32,600	32,700
4	43-4161	Human Resources Assistants, Except Payroll and Timekeeping	13,900	13,700
4	43-4171	Receptionists and Information Clerks	100,800	105,600
4	43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	16,200	15,500
4	43-4199	Information and Record Clerks, All Other	23,200	24,900
3	43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	442,200	463,800
4	43-5011	Cargo and Freight Agents	13,900	16,000
4	43-5021	Couriers and Messengers	12,200	13,800
4	43-5031	Police, Fire, and Ambulance Dispatchers	7,200	7,500
4	43-5032	Dispatchers, Except Police, Fire, and Ambulance	21,900	23,000
4	43-5041	Meter Readers, Utilities	1,600	1,400
4	43-5051	Postal Service Clerks	7,300	6,500
4	43-5052	Postal Service Mail Carriers	33,200	29,600
4	43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	12,000	10,200
4	43-5061	Production, Planning, and Expediting Clerks	55,500	60,300
4	43-5071	Shipping, Receiving, and Traffic Clerks	93,600	99,100
4	43-5081	Stock Clerks and Order Fillers	172,000	183,200
4	43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	11,700	13,200
3	43-6000	Secretaries and Administrative Assistants	445,400	428,800
4	43-6011	Executive Secretaries and Executive Administrative Assistants	72,100	59,300
4	43-6012	Legal Secretaries	26,900	21,500
4	43-6013	Medical Secretaries	99,500	118,400
4	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	246,900	229,600
3	43-9000	Other Office and Administrative Support Workers	499,300	491,600
4	43-9011	Computer Operators	2,300	1,800
4	43-9021	Data Entry Keyers	19,900	15,700

Interpolated 2020 Employment Estimate	Extrapolated 2030 Employment Estimate	Extrapolated 2040 Employment Estimate	Extrapolated 2050 Employment Estimate
43,880	47,280	50,680	54,080
160,680	167,580	174,480	181,380
131,180	139,080	146,980	154,880
19,660	21,960	24,260	26,560
14,620	15,720	16,820	17,920
22,640	24,340	26,040	27,740
13,080	14,480	15,880	17,280
12,100	10,600	9,100	7,600
14,160	13,460	12,760	12,060
34,500	38,000	41,500	45,000
2,479,900	2,474,400	2,468,900	2,463,400
179,220	182,320	185,420	188,520
179,220	182,320	185,420	188,520
13,300	10,800	8,300	5,800
12,120	9,720	7,320	4,920
357,160	349,460	341,760	334,060
21,340	20,040	18,740	17,440
55,860	61,160	66,460	71,760
199,060	193,860	188,660	183,460
3,280	3,680	4,080	4,480
23,180	22,580	21,980	21,380
7,340	7,040	6,740	6,440
42,220	35,820	29,420	23,020
4,960	5,260	5,560	5,860
543,840	548,040	552,240	556,440
4,960	5,260	5,560	5,860
1,400	1,400	1,400	1,400
12,640	12,840	13,040	13,240
2,280	2,180	2,080	1,980
219,820	217,920	216,020	214,120
21,560	22,360	23,160	23,960
13,660	11,960	10,260	8,560
26,460	25,260	24,060	22,860
20,960	22,260	23,560	24,860
9,240	8,940	8,640	8,340
20,140	21,340	22,540	23,740
3,040	2,740	2,440	2,140
32,620	32,720	32,820	32,920
13,860	13,660	13,460	13,260
101,760	106,560	111,360	116,160
16,060	15,360	14,660	13,960
23,540	25,240	26,940	28,640
446,520	468,120	489,720	511,320
14,320	16,420	18,520	20,620
12,520	14,120	15,720	17,320
7,260	7,560	7,860	8,160
22,120	23,220	24,320	25,420
1,560	1,360	1,160	960
7,140	6,340	5,540	4,740
32,480	28,880	25,280	21,680
11,640	9,840	8,040	6,240
56,460	61,260	66,060	70,860
94,700	100,200	105,700	111,200
174,240	185,440	196,640	207,840
12,000	13,500	15,000	16,500
442,080	425,480	408,880	392,280
69,540	56,740	43,940	31,140
25,820	20,420	15,020	9,620
103,280	122,180	141,080	159,980
243,440	226,140	208,840	191,540
497,760	490,060	482,360	474,660
2,200	1,700	1,200	700
19,060	14,860	10,660	6,460

Removed jobs from: 11-9013 Farmers, Ranchers, and Other Agricultural Managers; 19-4041 Geological and Petroleum Technicians; 19-4093 Forest and Conservation Technicians; 45-000 Farming, Fishing, and Forestry Occupations; 47-5000 Extraction Workers; 49-3011 Aircraft Mechanics and Service Technicians; 49-3041 Farm Equipment Mechanics and Service Technicians; 49-9041 Industrial Machinery Mechanics; 49-9043 Maintenance Workers, Machinery; 49-9044 Millwrights; 51-0000 Production Occupations; 53-2000 Air Transportation Workers; 53-4000 Rail Transportation Workers; and 53-5000 Water Transportation Workers.

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SOC Level ^[1]	SOC Code ^[2]	Occupational Title	Base Year Employment Estimate 2018 ^[3]	Projected Year Employment Estimate 2028
4	43-9022	Word Processors and Typists	8,800	5,900
4	43-9031	Desktop Publishers	1,000	800
4	43-9041	Insurance Claims and Policy Processing Clerks	38,700	41,600
4	43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	6,500	6,300
4	43-9061	Office Clerks, General	360,000	353,000
4	43-9071	Office Machine Operators, Except Computer	5,800	5,300
4	43-9081	Proofreaders and Copy Markers	1,400	1,500
4	43-9111	Statistical Assistants	1,300	1,500
4	43-9199	Office and Administrative Support Workers, All Other	53,600	58,200
2	45-0000	Farming, Fishing, and Forestry Occupations	351,500	357,900
3	45-1000	Supervisors of Farming, Fishing, and Forestry Workers	14,500	14,900
4	45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	14,500	14,900
3	45-2000	Agricultural Workers	331,600	338,100
4	45-2011	Agricultural Inspectors	2,400	2,400
4	45-2041	Graders and Sorters, Agricultural Products	10,200	10,400
4	45-2091	Agricultural Equipment Operators	15,800	17,300
4	45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	281,300	286,600
4	45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	19,000	18,200
4	45-2099	Agricultural Workers, All Other	2,300	2,400
3	45-4000	Forest, Conservation, and Logging Workers	5,400	4,900
4	45-4011	Forest and Conservation Workers	2,800	2,500
4	45-4022	Logging Equipment Operators	1,800	1,700
2	47-0000	Construction and Extraction Occupations	832,400	914,000
3	47-1000	Supervisors of Construction and Extraction Workers	62,500	68,200
4	47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	62,500	68,200
3	47-2000	Construction Trades Workers	698,800	769,300
4	47-2021	Brickmasons and Blockmasons	4,600	4,900
4	47-2022	Stonemasons	5,100	5,600
4	47-2031	Carpenters	146,100	160,500
4	47-2041	Carpet Installers	8,000	8,200
4	47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	6,400	8,000
4	47-2044	Tile and Marble Setters	9,900	12,500
4	47-2051	Cement Masons and Concrete Finishers	28,700	31,100
4	47-2061	Construction Laborers	141,000	153,400
4	47-2071	Paving, Surfacing, and Tamping Equipment Operators	2,900	3,100
4	47-2073	Operating Engineers and Other Construction Equipment Operators	29,600	31,100
4	47-2081	Drywall and Ceiling Tile Installers	36,000	39,000
4	47-2082	Tapers	7,800	8,400
4	47-2111	Electricians	78,100	85,600
4	47-2121	Glaziers	7,000	7,600
4	47-2131	Insulation Workers, Floor, Ceiling, and Wall	2,000	2,200
4	47-2141	Painters, Construction and Maintenance	61,400	68,500
4	47-2151	Pipelayers	2,700	2,900
4	47-2152	Plumbers, Pipefitters, and Steamfitters	53,100	59,700
4	47-2161	Plasterers and Stucco Masons	9,300	10,000
4	47-2171	Reinforcing Iron and Rebar Workers	2,300	2,500
4	47-2181	Roofers	23,800	25,900
4	47-2211	Sheet Metal Workers	13,400	14,400
4	47-2221	Structural Iron and Steel Workers	10,300	11,100
4	47-2231	Solar Photovoltaic Installers	5,200	8,600
3	47-3000	Helpers, Construction Trades	22,700	25,100
4	47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	4,500	5,100
4	47-3012	Helpers--Carpenters	3,600	4,100
4	47-3013	Helpers--Electricians	4,900	5,200
4	47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	2,000	2,300
4	47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	3,400	3,900
4	47-3016	Helpers--Roofers	1,000	1,100
4	47-3019	Helpers, Construction Trades, All Other	3,200	3,600
3	47-4000	Other Construction and Related Workers	37,700	40,600
4	47-4011	Construction and Building Inspectors	11,400	12,000
4	47-4021	Elevator Installers and Repairers	2,800	3,000
4	47-4031	Fence Erectors	4,600	4,800
4	47-4041	Hazardous Materials Removal Workers	6,300	7,200
4	47-4051	Highway Maintenance Workers	6,500	6,700
4	47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	2,700	3,200
4	47-4090	Miscellaneous Construction and Related Workers	3,200	3,500

Interpolated 2020 Employment Estimate	Extrapolated 2030 Employment Estimate	Extrapolated 2040 Employment Estimate	Extrapolated 2050 Employment Estimate
8,220	5,320	2,420	-480
960	760	560	360
39,280	42,180	45,080	47,980
6,460	6,260	6,060	5,860
358,600	351,600	344,600	337,600
5,700	5,200	4,700	4,200
1,420	1,520	1,620	1,720
1,340	1,540	1,740	1,940
54,520	59,120	63,720	68,320
352,780	359,180	365,580	371,980
14,580	14,980	15,380	15,780
14,580	14,980	15,380	15,780
332,900	339,400	345,900	352,400
2,400	2,400	2,400	2,400
10,240	10,440	10,640	10,840
16,100	17,600	19,100	20,600
282,360	287,660	292,960	298,260
18,840	18,040	17,240	16,440
2,320	2,420	2,520	2,620
5,300	4,800	4,300	3,800
2,740	2,440	2,140	1,840
1,780	1,680	1,580	1,480
848,720	930,320	1,011,920	1,093,520
63,640	69,340	75,040	80,740
63,640	69,340	75,040	80,740
712,900	783,400	853,900	924,400
4,660	4,960	5,260	5,560
5,200	5,700	6,200	6,700
148,980	163,380	177,780	192,180
8,040	8,240	8,440	8,640
6,720	8,320	9,920	11,520
10,420	13,020	15,620	18,220
29,180	31,580	33,980	36,380
143,480	155,880	168,280	180,680
2,940	3,140	3,340	3,540
29,900	31,400	32,900	34,400
36,600	39,600	42,600	45,600
7,920	8,520	9,120	9,720
79,600	87,100	94,600	102,100
7,120	7,720	8,320	8,920
2,040	2,240	2,440	2,640
62,820	69,920	77,020	84,120
2,740	2,940	3,140	3,340
54,420	61,020	67,620	74,220
9,440	10,140	10,840	11,540
2,340	2,540	2,740	2,940
24,220	26,320	28,420	30,520
13,600	14,600	15,600	16,600
10,460	11,260	12,060	12,860
5,880	9,280	12,680	16,080
23,180	25,580	27,980	30,380
4,620	5,220	5,820	6,420
3,700	4,200	4,700	5,200
4,960	5,260	5,560	5,860
2,060	2,360	2,660	2,960
3,500	4,000	4,500	5,000
1,020	1,120	1,220	1,320
3,280	3,680	4,080	4,480
38,280	41,180	44,080	46,980
11,520	12,120	12,720	13,320
2,840	3,040	3,240	3,440
4,640	4,840	5,040	5,240
6,480	7,380	8,280	9,180
6,540	6,740	6,940	7,140
2,800	3,300	3,800	4,300
3,260	3,560	3,860	4,160

Removed jobs from: 11-9013 Farmers, Ranchers, and Other Agricultural Managers; 19-4041 Geological and Petroleum Technicians; 19-4093 Forest and Conservation Technicians; 45-0000 Farming, Fishing, and Forestry Occupations; 47-5000 Extraction Workers; 49-3011 Aircraft Mechanics and Service Technicians; 49-3041 Farm Equipment Mechanics and Service Technicians; 49-9041 Industrial Machinery Mechanics; 49-9043 Maintenance Workers, Machinery; 49-9044 Millwrights; 51-0000 Production Occupations; 53-2000 Air Transportation Workers; 53-4000 Rail Transportation Workers; and 53-5000 Water Transportation Workers.

2018-2028 Occupational Employment Projections
California
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SOC Level ^[1]	SOC Code ^[2]	Occupational Title	Base Year Employment Estimate 2018 ^{[3][4]}	Projected Year Employment Estimate 2028
3	47-5000	Extraction Workers	10,800	10,800
4	47-5012	Rotary Drill Operators, Oil and Gas	1,700	1,600
4	47-5013	Service Unit Operators, Oil, Gas, and Mining	2,500	2,400
4	47-5021	Earth Drillers, Except Oil and Gas	1,700	1,900
4	47-5071	Roustabouts, Oil and Gas	1,400	1,400
4	47-5081	Helpers--Extraction Workers	1,100	1,200
2	49-0000	Installation, Maintenance, and Repair Occupations	592,900	623,400
3	49-1000	Supervisors of Installation, Maintenance, and Repair Workers	42,000	44,000
4	49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	42,000	44,000
3	49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	67,400	68,800
4	49-2011	Computer, Automated Teller, and Office Machine Repairers	12,600	12,000
4	49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	1,100	1,200
4	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	29,400	30,300
4	49-2091	Avionics Technicians	1,700	1,700
4	49-2092	Electric Motor, Power Tool, and Related Repairers	1,500	1,500
4	49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	1,200	1,300
4	49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	5,500	5,700
4	49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	1,600	1,600
4	49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	2,100	1,700
4	49-2097	Electronic Home Entertainment Equipment Installers and Repairers	1,700	1,700
4	49-2098	Security and Fire Alarm Systems Installers	9,000	10,100
3	49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	178,600	182,400
4	49-3011	Aircraft Mechanics and Service Technicians	14,100	14,700
4	49-3021	Automotive Body and Related Repairers	14,500	14,800
4	49-3022	Automotive Glass Installers and Repairers	2,400	2,500
4	49-3023	Automotive Service Technicians and Mechanics	80,200	79,500
4	49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	24,600	26,500
4	49-3041	Farm Equipment Mechanics and Service Technicians	5,600	5,900
4	49-3042	Mobile Heavy Equipment Mechanics, Except Engines	14,000	14,600
4	49-3051	Motorboat Mechanics and Service Technicians	1,800	1,900
4	49-3052	Motorcycle Mechanics	1,600	1,600
4	49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	2,400	2,600
4	49-3091	Bicycle Repairers	3,600	3,700
4	49-3092	Recreational Vehicle Service Technicians	1,900	1,900
4	49-3093	Tire Repairers and Changers	11,300	11,300
3	49-9000	Other Installation, Maintenance, and Repair Occupations	304,900	328,300
4	49-9011	Mechanical Door Repairers	2,200	2,500
4	49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	4,100	4,200
4	49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	32,800	36,900
4	49-9031	Home Appliance Repairers	2,900	3,000
4	49-9041	Industrial Machinery Mechanics	29,500	31,500
4	49-9043	Maintenance Workers, Machinery	7,300	7,800
4	49-9044	Millwrights	2,800	3,000
4	49-9051	Electrical Power-Line Installers and Repairers	7,200	7,300
4	49-9052	Telecommunications Line Installers and Repairers	16,600	17,600
4	49-9062	Medical Equipment Repairers	6,400	6,700
4	49-9063	Musical Instrument Repairers and Tuners	1,100	1,000
4	49-9069	Precision Instrument and Equipment Repairers, All Other	2,300	2,300
4	49-9071	Maintenance and Repair Workers, General	142,400	154,900
4	49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	3,200	3,100
4	49-9094	Locksmiths and Safe Repairers	3,000	2,800
4	49-9096	Riggers	2,400	2,600
4	49-9098	Helpers--Installation, Maintenance, and Repair Workers	10,400	11,200

Interpolated 2020 Employment Estimate	Extrapolated 2030 Employment Estimate	Extrapolated 2040 Employment Estimate	Extrapolated 2050 Employment Estimate
10,800	10,800	10,800	10,800
1,680	1,580	1,480	1,380
2,480	2,380	2,280	2,180
1,740	1,940	2,140	2,340
1,400	1,400	1,400	1,400
1,120	1,220	1,320	1,420
599,000	629,500	660,000	690,500
42,400	44,400	46,400	48,400
42,400	44,400	46,400	48,400
67,680	69,080	70,480	71,880
12,480	11,880	11,280	10,680
1,120	1,220	1,320	1,420
29,580	30,480	31,380	32,280
1,700	1,700	1,700	1,700
1,500	1,500	1,500	1,500
1,220	1,320	1,420	1,520
5,540	5,740	5,940	6,140
1,600	1,600	1,600	1,600
2,020	1,620	1,220	820
1,700	1,700	1,700	1,700
9,220	10,320	11,420	12,520
179,360	183,160	186,960	190,760
14,220	14,820	15,420	16,020
14,560	14,860	15,160	15,460
2,420	2,520	2,620	2,720
80,060	79,360	78,660	77,960
24,980	26,880	28,780	30,680
5,660	5,960	6,260	6,560
14,120	14,720	15,320	15,920
1,820	1,920	2,020	2,120
1,600	1,600	1,600	1,600
2,440	2,640	2,840	3,040
3,620	3,720	3,820	3,920
1,900	1,900	1,900	1,900
11,300	11,300	11,300	11,300
309,580	332,980	356,380	379,780
2,260	2,560	2,860	3,160
4,120	4,220	4,320	4,420
33,620	37,720	41,820	45,920
2,920	3,020	3,120	3,220
29,900	31,900	33,900	35,900
7,400	7,900	8,400	8,900
2,840	3,040	3,240	3,440
7,220	7,320	7,420	7,520
16,800	17,800	18,800	19,800
6,460	6,760	7,060	7,360
1,080	980	880	780
2,300	2,300	2,300	2,300
144,900	157,400	169,900	182,400
3,180	3,080	2,980	2,880
2,960	2,760	2,560	2,360
2,440	2,640	2,840	3,040
10,560	11,360	12,160	12,960

Removed jobs from: 11-9013 Farmers, Ranchers, and Other Agricultural Managers; 19-4041 Geological and Petroleum Technicians; 19-4093 Forest and Conservation Technicians; 45-0000 Farming, Fishing, and Forestry Occupations; 47-5000 Extraction Workers; 49-3011 Aircraft Mechanics and Service Technicians; 49-3041 Farm Equipment Mechanics and Service Technicians; 49-9041 Industrial Machinery Mechanics; 49-9043 Maintenance Workers, Machinery; 49-9044 Millwrights; 51-0000 Production Occupations; 53-2000 Air Transportation Workers; 53-4000 Rail Transportation Workers; and 53-5000 Water Transportation Workers.

2018-2028 Occupational Employment Projections
California
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SOC Level ^[1]	SOC Code ^[2]	Occupational Title	Base Year Employment Estimate 2018 ^[3]	Projected Year Employment Estimate 2028
4	49-9099	Installation, Maintenance, and Repair Workers, All Other	25,500	27,100
2	51-0000	Production Occupations	855,500	839,500
3	51-1000	Supervisors of Production Workers	53,000	54,400
4	51-1011	First-Line Supervisors of Production and Operating Workers	53,000	54,400
3	51-2000	Assemblers and Fabricators	134,500	124,600
4	51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	3,300	2,700
4	51-2021	Coil Winders, Tapers, and Finishers	1,400	1,100
4	51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	45,300	46,100
4	51-2031	Engine and Other Machine Assemblers	1,800	1,500
4	51-2041	Structural Metal Fabricators and Fitters	5,900	5,100
4	51-2091	Fiberglass Laminators and Fabricators	1,000	1,000
4	51-2098	Assemblers and Fabricators, All Other, Including Team Assemblers	75,700	67,100
3	51-3000	Food Processing Workers	98,000	106,100
4	51-3011	Bakers	26,500	29,000
4	51-3021	Butchers and Meat Cutters	26,200	29,000
4	51-3022	Meat, Poultry, and Fish Cutters and Trimmers	8,700	9,500
4	51-3023	Slaughterers and Meat Packers	5,100	5,300
4	51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	1,900	2,000
4	51-3092	Food Batchmakers	18,300	19,200
4	51-3093	Food Cooking Machine Operators and Tenders	4,200	4,400
4	51-3099	Food Processing Workers, All Other	7,100	7,800
3	51-4000	Metal Workers and Plastic Workers	153,900	149,600
4	51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	9,200	8,500
4	51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	1,800	2,200
4	51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	5,800	5,100
4	51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	1,700	1,300
4	51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	1,400	1,200
4	51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	12,400	11,200
4	51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	2,000	1,600
4	51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	9,000	8,200
4	51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	3,300	2,900
4	51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	2,600	2,200
4	51-4041	Machinists	38,400	40,000
4	51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	8,400	7,400
4	51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	6,300	6,300
4	51-4111	Tool and Die Makers	3,000	2,800
4	51-4121	Welders, Cutters, Solderers, and Brazers	33,000	34,000
4	51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	3,100	3,200
4	51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	1,100	1,000
4	51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	6,000	5,300
4	51-4199	Metal Workers and Plastic Workers, All Other	2,200	2,200
3	51-5100	Printing Workers	23,200	20,500
4	51-5111	Prepress Technicians and Workers	3,600	3,000
4	51-5112	Printing Press Operators	15,600	13,900
4	51-5113	Print Binding and Finishing Workers	4,000	3,500
3	51-6000	Textile, Apparel, and Furnishings Workers	71,900	64,900
4	51-6011	Laundry and Dry-Cleaning Workers	17,300	17,500
4	51-6021	Pressers, Textile, Garment, and Related Materials	6,800	5,300
4	51-6031	Sewing Machine Operators	26,200	21,900
4	51-6041	Shoe and Leather Workers and Repairers	1,600	1,600
4	51-6051	Sewers, Hand	1,600	1,600
4	51-6052	Tailors, Dressmakers, and Custom Sewers	5,500	5,500

Interpolated 2020 Employment Estimate	Extrapolated 2030 Employment Estimate	Extrapolated 2040 Employment Estimate	Extrapolated 2050 Employment Estimate
25,820	27,420	29,020	30,620
852,300	836,300	820,300	804,300
53,280	54,680	56,080	57,480
53,280	54,680	56,080	57,480
132,520	122,620	112,720	102,820
3,180	2,580	1,980	1,380
1,340	1,040	740	440
45,460	46,260	47,060	47,860
1,740	1,440	1,140	840
5,740	4,940	4,140	3,340
1,000	1,000	1,000	1,000
73,980	65,380	56,780	48,180
99,620	107,720	115,820	123,920
27,000	29,500	32,000	34,500
26,760	29,560	32,360	35,160
8,860	9,660	10,460	11,260
5,140	5,340	5,540	5,740
1,920	2,020	2,120	2,220
18,480	19,380	20,280	21,180
4,240	4,440	4,640	4,840
7,240	7,940	8,640	9,340
153,040	148,740	144,440	140,140
9,060	8,360	7,660	6,960
1,880	2,280	2,680	3,080
5,660	4,960	4,260	3,560
1,620	1,220	820	420
1,360	1,160	960	760
12,160	10,960	9,760	8,560
1,920	1,520	1,120	720
8,840	8,040	7,240	6,440
3,220	2,820	2,420	2,020
2,520	2,120	1,720	1,320
38,720	40,320	41,920	43,520
8,200	7,200	6,200	5,200
6,300	6,300	6,300	6,300
2,960	2,760	2,560	2,360
33,200	34,200	35,200	36,200
3,120	3,220	3,320	3,420
1,080	980	880	780
5,860	5,160	4,460	3,760
2,200	2,200	2,200	2,200
22,660	19,960	17,260	14,560
3,480	2,880	2,280	1,680
15,260	13,560	11,860	10,160
3,900	3,400	2,900	2,400
70,500	63,500	56,500	49,500
17,340	17,540	17,740	17,940
6,500	5,000	3,500	2,000
25,340	21,040	16,740	12,440
1,600	1,600	1,600	1,600
1,600	1,600	1,600	1,600
5,500	5,500	5,500	5,500

Removed jobs from: 11-9013 Farmers, Ranchers, and Other Agricultural Managers; 19-4041 Geological and Petroleum Technicians; 19-4093 Forest and Conservation Technicians; 45-000 Farming, Fishing, and Forestry Occupations; 47-5000 Extraction Workers; 49-3011 Aircraft Mechanics and Service Technicians; 49-3041 Farm Equipment Mechanics and Service Technicians; 49-9041 Industrial Machinery Mechanics; 49-9043 Maintenance Workers, Machinery; 49-9044 Millwrights; 51-0000 Production Occupations; 53-2000 Air Transportation Workers; 53-4000 Rail Transportation Workers; and 53-5000 Water Transportation Workers.

2018-2028 Occupational Employment Projections
California
Statewide

SOC Level ^[1]	SOC Code ^[2]	Occupational Title	Base Year Employment Estimate 2018 ^{[3][4]}	Projected Year Employment Estimate 2028
4	51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	1,500	1,300
4	51-6062	Textile Cutting Machine Setters, Operators, and Tenders	1,400	1,300
4	51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	1,300	1,000
4	51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	1,000	1,000
4	51-6092	Fabric and Apparel Patternmakers	1,700	1,500
4	51-6093	Upholsterers	3,400	3,200
4	51-6099	Textile, Apparel, and Furnishings Workers, All Other	2,100	1,900
3	51-7000	Woodworkers	25,000	24,200
4	51-7011	Cabinetmakers and Bench Carpenters	11,600	10,800
4	51-7021	Furniture Finishers	2,000	1,900
4	51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	3,200	3,100
4	51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	4,600	4,500
4	51-7099	Woodworkers, All Other	2,500	2,600
3	51-8000	Plant and System Operators	28,700	27,200
4	51-8012	Power Distributors and Dispatchers	1,200	1,100
4	51-8013	Power Plant Operators	4,000	3,700
4	51-8021	Stationary Engineers and Boiler Operators	3,600	3,800
4	51-8031	Water and Wastewater Treatment Plant and System Operators	11,300	10,700
4	51-8091	Chemical Plant and System Operators	1,600	1,600
4	51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	4,500	3,700
4	51-8099	Plant and System Operators, All Other	1,500	1,500
3	51-9000	Other Production Occupations	267,200	267,900
4	51-9011	Chemical Equipment Operators and Tenders	3,700	3,700
4	51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	9,100	10,700
4	51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	3,300	3,300
4	51-9022	Grinding and Polishing Workers, Hand	3,800	3,100
4	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	12,800	13,400
4	51-9031	Cutters and Trimmers, Hand	1,700	1,200
4	51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	4,800	4,900
4	51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	5,600	5,600
4	51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	1,300	1,300
4	51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	62,600	53,700
4	51-9071	Jewelers and Precious Stone and Metal Workers	4,000	3,700
4	51-9081	Dental Laboratory Technicians	5,400	6,300
4	51-9082	Medical Appliance Technicians	1,600	1,900
4	51-9083	Ophthalmic Laboratory Technicians	3,500	4,100
4	51-9111	Packaging and Filling Machine Operators and Tenders	49,100	53,000
4	51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	5,000	5,000
4	51-9122	Painters, Transportation Equipment	4,800	5,000
4	51-9123	Painting, Coating, and Decorating Workers	1,400	1,400
4	51-9141	Semiconductor Processors	5,800	5,300
4	51-9151	Photographic Process Workers and Processing Machine Operators	2,300	2,000
4	51-9191	Adhesive Bonding Machine Operators and Tenders	1,000	1,000
4	51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	2,100	2,200
4	51-9193	Cooling and Freezing Equipment Operators and Tenders	1,400	1,700
4	51-9194	Etchers and Engravers	1,000	1,100
4	51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	5,300	5,700
4	51-9196	Paper Goods Machine Setters, Operators, and Tenders	5,700	5,600
4	51-9198	Helpers--Production Workers	27,500	28,200
4	51-9199	Production Workers, All Other	31,300	33,800
2	53-0000	Transportation and Material Moving Occupations	1,271,800	1,435,100
3	53-1000	Supervisors of Transportation and Material Moving Workers	52,400	61,100

Interpolated 2020 Employment Estimate	Extrapolated 2030 Employment Estimate	Extrapolated 2040 Employment Estimate	Extrapolated 2050 Employment Estimate
1,460	1,260	1,060	860
1,380	1,280	1,180	1,080
1,240	940	640	340
1,000	1,000	1,000	1,000
1,660	1,460	1,260	1,060
3,360	3,160	2,960	2,760
2,060	1,860	1,660	1,460
24,840	24,040	23,240	22,440
11,440	10,640	9,840	9,040
1,980	1,880	1,780	1,680
3,180	3,080	2,980	2,880
4,580	4,480	4,380	4,280
2,520	2,620	2,720	2,820
28,400	26,900	25,400	23,900
1,180	1,080	980	880
3,940	3,640	3,340	3,040
3,640	3,840	4,040	4,240
11,180	10,580	9,980	9,380
1,600	1,600	1,600	1,600
4,340	3,540	2,740	1,940
1,500	1,500	1,500	1,500
267,340	268,040	268,740	269,440
3,700	3,700	3,700	3,700
9,420	11,020	12,620	14,220
3,300	3,300	3,300	3,300
3,660	2,960	2,260	1,560
12,920	13,520	14,120	14,720
1,600	1,100	600	100
4,820	4,920	5,020	5,120
5,600	5,600	5,600	5,600
1,300	1,300	1,300	1,300
60,820	51,920	43,020	34,120
3,940	3,640	3,340	3,040
5,580	6,480	7,380	8,280
1,660	1,960	2,260	2,560
3,620	4,220	4,820	5,420
49,880	53,780	57,680	61,580
5,000	5,000	5,000	5,000
4,840	5,040	5,240	5,440
1,400	1,400	1,400	1,400
5,700	5,200	4,700	4,200
2,240	1,940	1,640	1,340
1,000	1,000	1,000	1,000
2,120	2,220	2,320	2,420
1,460	1,760	2,060	2,360
1,020	1,120	1,220	1,320
5,380	5,780	6,180	6,580
5,680	5,580	5,480	5,380
27,640	28,340	29,040	29,740
31,800	34,300	36,800	39,300
1,304,460	1,467,760	1,631,060	1,794,360
54,140	62,840	71,540	80,240

Removed jobs from: 11-9013 Farmers, Ranchers, and Other Agricultural Managers; 19-4041 Geological and Petroleum Technicians; 19-4093 Forest and Conservation Technicians; 45-000 Farming, Fishing, and Forestry Occupations; 47-5000 Extraction Workers; 49-3011 Aircraft Mechanics and Service Technicians; 49-3041 Farm Equipment Mechanics and Service Technicians; 49-9041 Industrial Machinery Mechanics; 49-9043 Maintenance Workers, Machinery; 49-9044 Millwrights; 51-0000 Production Occupations; 53-2000 Air Transportation Workers; 53-4000 Rail Transportation Workers; and 53-5000 Water Transportation Workers.

2018-2028 Occupational Employment Projections
California
Statewide

SOC Level ^[1]	SOC Code ^[2]	Occupational Title	Base Year Employment Estimate 2018 ^{[3][4]}	Projected Year Employment Estimate 2028
4	53-1048	First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling	51,500	60,100
3	53-2000	Air Transportation Workers	35,000	33,900
4	53-2011	Airline Pilots, Copilots, and Flight Engineers	10,200	9,600
4	53-2012	Commercial Pilots	4,300	4,400
4	53-2021	Air Traffic Controllers	2,400	2,500
4	53-2022	Airfield Operations Specialists	1,800	2,000
4	53-2031	Flight Attendants	16,400	15,500
3	53-3000	Motor Vehicle Operators	427,400	489,100
4	53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	1,500	1,800
4	53-3021	Bus Drivers, Transit and Intercity	25,100	26,600
4	53-3022	Bus Drivers, School or Special Client	20,300	21,800
4	53-3031	Driver/Sales Workers	50,400	53,500
4	53-3032	Heavy and Tractor-Trailer Truck Drivers	160,800	185,200
4	53-3033	Light Truck or Delivery Services Drivers	120,200	139,900
4	53-3041	Taxi Drivers and Chauffeurs	42,800	53,000
4	53-3099	Motor Vehicle Operators, All Other	6,300	7,400
3	53-4000	Rail Transportation Workers	6,700	6,400
4	53-4011	Locomotive Engineers	1,600	1,500
4	53-4031	Railroad Conductors and Yardmasters	1,500	1,300
4	53-4041	Subway and Streetcar Operators	1,700	1,700
3	53-5000	Water Transportation Workers	4,200	4,400
4	53-5011	Sailors and Marine Oilers	1,800	1,900
4	53-5021	Captains, Mates, and Pilots of Water Vessels	2,000	2,100
3	53-6000	Other Transportation Workers	41,300	42,700
4	53-6021	Parking Lot Attendants	23,800	24,400
4	53-6031	Automotive and Watercraft Service Attendants	7,000	7,400
4	53-6051	Transportation Inspectors	3,100	3,200
4	53-6061	Transportation Attendants, Except Flight Attendants	4,500	4,800
4	53-6099	Transportation Workers, All Other	2,200	2,100
3	53-7000	Material Moving Workers	704,700	797,600
4	53-7011	Conveyor Operators and Tenders	2,200	2,500
4	53-7021	Crane and Tower Operators	3,700	3,900
4	53-7032	Excavating and Loading Machine and Dragline Operators	1,900	2,000
4	53-7051	Industrial Truck and Tractor Operators	71,400	86,000
4	53-7061	Cleaners of Vehicles and Equipment	64,100	67,400
4	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	415,900	482,200
4	53-7063	Machine Feeders and Offbearers	8,000	8,800
4	53-7064	Packers and Packagers, Hand	106,200	111,000
4	53-7081	Refuse and Recyclable Material Collectors	15,000	16,500
4	53-7121	Tank Car, Truck, and Ship Loaders	1,000	1,100
4	53-7199	Material Moving Workers, All Other	12,500	13,200

Interpolated 2020 Employment Estimate	Extrapolated 2030 Employment Estimate	Extrapolated 2040 Employment Estimate	Extrapolated 2050 Employment Estimate
53,220	61,820	70,420	79,020
34,780	33,680	32,580	31,480
10,080	9,480	8,880	8,280
4,320	4,420	4,520	4,620
2,420	2,520	2,620	2,720
1,840	2,040	2,240	2,440
16,220	15,320	14,420	13,520
439,740	501,440	563,140	624,840
1,560	1,860	2,160	2,460
25,400	26,900	28,400	29,900
20,600	22,100	23,600	25,100
51,020	54,120	57,220	60,320
165,680	190,080	214,480	238,880
124,140	143,840	163,540	183,240
44,840	55,040	65,240	75,440
6,520	7,620	8,720	9,820
6,640	6,340	6,040	5,740
1,580	1,480	1,380	1,280
1,460	1,260	1,060	860
1,700	1,700	1,700	1,700
4,240	4,440	4,640	4,840
1,820	1,920	2,020	2,120
2,020	2,120	2,220	2,320
41,580	42,980	44,380	45,780
23,920	24,520	25,120	25,720
7,080	7,480	7,880	8,280
3,120	3,220	3,320	3,420
4,560	4,860	5,160	5,460
2,180	2,080	1,980	1,880
723,280	816,180	909,080	1,001,980
2,260	2,560	2,860	3,160
3,740	3,940	4,140	4,340
1,920	2,020	2,120	2,220
74,320	88,920	103,520	118,120
64,760	68,060	71,360	74,660
429,160	495,460	561,760	628,060
8,160	8,960	9,760	10,560
107,160	111,960	116,760	121,560
15,300	16,800	18,300	19,800
1,020	1,120	1,220	1,320
12,640	13,340	14,040	14,740

Removed jobs from: 11-9013 Farmers, Ranchers, and Other Agricultural Managers; 19-4041 Geological and Petroleum Technicians; 19-4093 Forest and Conservation Technicians; 45-000 Farming, Fishing, and Forestry Occupations; 47-5000 Extraction Workers; 49-3011 Aircraft Mechanics and Service Technicians; 49-3041 Farm Equipment Mechanics and Service Technicians; 49-9041 Industrial Machinery Mechanics; 49-9043 Maintenance Workers, Machinery; 49-9044 Millwrights; 51-0000 Production Occupations; 53-2000 Air Transportation Workers; 53-4000 Rail Transportation Workers; and 53-5000 Water Transportation Workers.

Last Updated: November 19, 2007

	1990	Included	
Categories Included in the Inventory.	430.7	293.5	
► Electricity Generation (In State)	49.0	34.4	
CHP: Commercial	0.7	0.7	
CHP: Industrial	14.5		No industrial CHP
Merchant Owned	2.3	2.3	
Transmission and Distribution	1.5	1.5	
Utility Owned	29.9	29.9	
► Electricity Generation (Imports)	61.5	61.5	
Specified Imports	29.6	29.6	
Transmission and Distribution	1.0	1.0	
Unspecified Imports	31.0	31.0	
► Transportation	150.6	140.9	
Aviation	5.1		
Not Specified Transportation	3.0	3.0	
On road	137.9	137.9	
Rail	2.3		
Water-borne	2.2		
► Industrial	105.3	11.7	
CHP: Industrial	9.7		No industrial CHP
Flaring	0.2		
Landfills	7.5	7.5	Waste and water included in GHG inventory
Manufacturing	32.1	0.7	Include construction; other applicable mfg is an insubstantial portion of the state's inventory and the local inventory
Mining	0.0		No mining in the area
Not Specified Industrial	2.7		Not a lot of heavy industry
Oil & Gas Extraction	14.8		No OaG in area
Petroleum Marketing	0.0		No OaG in area
Petroleum Refining	32.9		No OaG in area
Pipelines	1.9		No OaG in area
Waste water treatment	3.6	3.6	Waste and water included in GHG inventory
► Commercial	14.4	13.9	
CHP: Commercial	0.4	0.4	
Communication	0.1	0.1	
Domestic Utilities	0.3	0.3	
Education	1.4	1.4	
Food Services	1.9	1.9	
Health Care	1.3	1.3	
Hotels	0.7	0.7	
National Security	0.6		
Not Specified Commercial	5.6	5.6	
Offices	1.5	1.5	
Retail & Wholesale	0.7	0.7	
Transportation Services	0.0	0.03	
► Residential	29.7	29.7	
Household Use	29.7	29.7	
► Agriculture & Forestry	18.9	0.0	
Ag Energy Use	4.5		
Ag Residue Burning	0.1		
Ag Soil Management	6.3		
Enteric Fermentation	7.9		
Forest and range management	0.2		
Histosol cultivation	0.2		
Manure management	5.8		
Net CO2 flux	-6.7		
Rice cultivation	0.5		
► Not Specified	1.3	1.3	
Not Specified Not Specified	1.3	1.3	

Excluded from the Inventory

► Transportation	59.0
Aviation	33.9
Water-borne	25.1
► Electricity Generation (In State)	9.3
CHP: Commercial	0.0
CHP: Industrial	2.8
Merchant Owned	6.5
Utility Owned	0.0
► Industrial	9.9
CHP: Industrial	2.0
Landfills	1.8
Manufacturing	0.0
Not Specified Industrial	6.1
► Commercial	0.4
CHP: Commercial	0.0
Not Specified Commercial	0.4
► Residential	6.0
Household Use	6.0
► Agriculture & Forestry	2.1
Ag Residue Burning	2.1

Please see READ ME FIRST tab		(Version 1 - Last Updated on 11/19/2007)			All values in million metric tonne (Tg) of CO2 equivalent				Sum of the currently selected categories:		426.60
Included in the inventory?	Type of emission or sink	IPCC Code	Sector Level 1	Sector Level 2	Sector Level 3	Sector Level 4	Activity Level 1	Activity Level 2	GHG	1990	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Merchant Owned	Not Specified	None	Fuel combustion	Biomass	N2O	0.059169368	
Yes	Gross Emissions	1B3	Electricity Generation (In State)	Merchant Owned	Not Specified	None	Geothermal power	Geothermal	CO2	0.967677197	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Natural Gas	CH4	0.009898623	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Natural Gas	CO2	24.9916661	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Natural Gas	N2O	0.014612253	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Distillate	CH4	6.92742E-05	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Distillate	CO2	0.080380029	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Distillate	N2O	0.000204524	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Residual Fuel Oil	CH4	0.002777509	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Residual Fuel Oil	CO2	3.471445341	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Residual Fuel Oil	N2O	0.008200265	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Digester Gas	CH4	0	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Digester Gas	N2O	0	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Landfill Gas	CH4	0	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Landfill Gas	N2O	0	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Biomass	CH4	0.00001386	
Yes	Gross Emissions	1A1a1	Electricity Generation (In State)	Utility Owned	Not Specified	None	Fuel combustion	Biomass	N2O	2.729E-05	
Yes	Gross Emissions	1B3	Electricity Generation (In State)	Utility Owned	Not Specified	None	Geothermal power	Geothermal	CO2	1.339002161	
Yes	Gross Emissions	2G1b	Electricity Generation (In State)	Distribution	Not Specified	None	SF6 use	NA	SF6	1.560713758	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PNW	(OR)	Fuel combustion	Coal	CH4	6.07637E-05	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PNW	(OR)	Fuel combustion	Coal	CO2	0.280736243	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PNW	(OR)	Fuel combustion	Coal	N2O	0.001345482	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PNW	(OR)	Fuel combustion	Distillate	CH4	7.36319E-07	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PNW	(OR)	Fuel combustion	Distillate	CO2	0.000854323	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PNW	(OR)	Fuel combustion	Distillate	N2O	2.17389E-06	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PNW	Colstrip (MT)	Fuel combustion	Coal	CH4	0.000199438	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PNW	Colstrip (MT)	Fuel combustion	Coal	CO2	0.921429725	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PNW	Colstrip (MT)	Fuel combustion	Coal	N2O	0.004416129	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PNW	Colstrip (MT)	Fuel combustion	Distillate	CH4	8.51921E-07	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PNW	Colstrip (MT)	Fuel combustion	Distillate	CO2	0.000988455	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PNW	Colstrip (MT)	Fuel combustion	Distillate	N2O	2.51519E-06	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Coal	CH4	0.001083653	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Coal	CO2	5.006616801	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Coal	N2O	0.023995172	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Natural Gas	CH4	5.5949E-06	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Natural Gas	CO2	0.014125286	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Natural Gas	N2O	8.25914E-06	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(UT)	Fuel combustion	Coal	CH4	0.002496207	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(UT)	Fuel combustion	Coal	CO2	11.10162792	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(UT)	Fuel combustion	Coal	N2O	0.055273163	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(UT)	Fuel combustion	Distillate	CH4	1.38338E-05	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(UT)	Fuel combustion	Distillate	CO2	0.01605092	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(UT)	Fuel combustion	Distillate	N2O	0.48427E-05	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Mohave (NV)	Fuel combustion	Coal	CH4	0.001482786	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Mohave (NV)	Fuel combustion	Coal	CO2	6.594538182	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Mohave (NV)	Fuel combustion	Coal	N2O	0.032833111	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Mohave (NV)	Fuel combustion	Natural Gas	CH4	3.3451E-05	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Mohave (NV)	Fuel combustion	Natural Gas	CO2	0.084452687	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Mohave (NV)	Fuel combustion	Natural Gas	N2O	4.938E-05	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Navajo (AZ)	Fuel combustion	Coal	CH4	0.000726948	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Navajo (AZ)	Fuel combustion	Coal	CO2	3.233027344	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Navajo (AZ)	Fuel combustion	Coal	N2O	0.016096700	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Navajo (AZ)	Fuel combustion	Distillate	CH4	4.86709E-06	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Navajo (AZ)	Fuel combustion	Distillate	CO2	0.005647119	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Navajo (AZ)	Fuel combustion	Distillate	N2O	1.43695E-05	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NV)	Fuel combustion	Coal	CH4	0.000249497	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NV)	Fuel combustion	Coal	CO2	1.109613495	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NV)	Fuel combustion	Coal	N2O	0.005524581	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NV)	Fuel combustion	Distillate	CH4	1.07245E-06	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NV)	Fuel combustion	Distillate	CO2	0.00124331	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NV)	Fuel combustion	Distillate	N2O	3.16629E-06	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Coal	CH4	8.77472E-05	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Coal	CO2	0.405403589	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Coal	N2O	0.001942974	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Distillate	CH4	5.53416E-07	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Distillate	CO2	0.00064211	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Distillate	N2O	1.63389E-06	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Residual Fuel Oil	CH4	5.47705E-07	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Residual Fuel Oil	CO2	0.000684538	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	(NM)	Fuel combustion	Residual Fuel Oil	N2O	1.61703E-06	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Axis (AZ)	Fuel combustion	Natural Gas	CH4	2.15839E-05	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Axis (AZ)	Fuel combustion	Natural Gas	CO2	0.054432076	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Axis (AZ)	Fuel combustion	Natural Gas	N2O	3.18619E-05	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Axis (AZ)	Fuel combustion	Distillate	CH4	8.18408E-07	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Axis (AZ)	Fuel combustion	Distillate	CO2	0.000949568	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Axis (AZ)	Fuel combustion	Distillate	N2O	2.41624E-06	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Axis (AZ)	Fuel combustion	Residual Fuel Oil	CH4	0	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Axis (AZ)	Fuel combustion	Residual Fuel Oil	CO2	0	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Bonanza (UT)	Fuel combustion	Coal	CH4	0.000139473	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Bonanza (UT)	Fuel combustion	Coal	CO2	6.62029147	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Bonanza (UT)	Fuel combustion	Coal	N2O	0.003088328	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Bonanza (UT)	Fuel combustion	Distillate	CH4	3.87084E-07	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Bonanza (UT)	Fuel combustion	Distillate	CO2	0.000449121	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Specified Imports	PSW	Bonanza (UT)	Fuel combustion	Distillate	N2O	1.14282E-06	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Unspecified Imports	PNW	None	Electricity generation	Imported electricity	CH4	0.001694344	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Unspecified Imports	PNW	None	Electricity generation	Imported electricity	CO2	7.827548234	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Unspecified Imports	PNW	None	Electricity generation	Imported electricity	N2O	0.037517617	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Unspecified Imports	PSW	None	Electricity generation	Imported electricity	CH4	0.005072237	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Unspecified Imports	PSW	None	Electricity generation	Imported electricity	CO2	22.97176574	
Yes	Gross Emissions	1A1a1	Electricity Generation (Imports)	Unspecified Imports	PSW	None	Electricity generation	Imported electricity	N2O	0.112313826	
Yes	Gross Emissions	2G1b	Electricity Generation (Imports)	Distribution	Not Specified	None	SF6 use	NA	SF6	1.01595667	
Yes	Gross Emissions	1A3a1i	Transportation	Aviation	Domestic Air transport	Intrastate	Fuel combustion	Jet Fuel	CH4	0.002667996	
Yes	Gross Emissions	1A3a1i	Transportation	Aviation	Domestic Air transport	Intrastate	Fuel combustion	Jet Fuel	CO2	4.670750623	
Yes	Gross Emissions	1A3a1i	Transportation	Aviation	Domestic Air transport	Intrastate	Fuel combustion	Jet Fuel	N2O	0.045269782	
Yes	Gross Emissions	1A3a1i	Transportation	Aviation	Domestic Air transport	None	Fuel combustion	Aviation Gasoline	CH4	0.0068951	
Yes	Gross Emissions	1A3a1i	Transportation	Aviation	Domestic Air transport	None	Fuel combustion	Aviation Gasoline	CO2	0.386012918	
Yes	Gross Emissions	1A3a1i	Transportation	Aviation	Domestic Air transport	None	Fuel combustion	Aviation Gasoline	N2O	0.001540944	
Yes	Gross Emissions	1A3a	Transportation	Aviation	Not Specified	None	Fuel combustion	Natural Gas	CH4	7.28125E-06	
Yes	Gross Emissions	1A3a	Transportation	Aviation	Not Specified	None	Fuel combustion	Natural Gas	CO2	0.018382765	
Yes	Gross Emissions	1A3a	Transportation	Aviation	Not Specified	None	Fuel combustion	Natural Gas	N2O	1.07485E-05	
Yes	Gross Emissions	1A3b	Transportation	On road	Freight	None	Fuel combustion	Natural Gas	CH4	6.33882E-06	
Yes	Gross Emissions	1A3b	Transportation	On road	Freight	None	Fuel combustion	Natural Gas	CO2	0.016003431	
Yes	Gross Emissions	1A3b	Transportation	On road	Freight	None	Fuel combustion	Natural Gas	N2O	9.35731E-06	
Yes	Gross Emissions	1A3b1i	Transportation	On road	Light-Duty Trucks	None	Fuel combustion	Distillate	CH4	0.000366736	
Yes	Gross Emissions	1A3b1i	Transportation	On road	Light-Duty Trucks	None	Fuel combustion	Distillate	CO2	0.519519897	
Yes	Gross Emissions	1A3b1i	Transportation	On road	Light-Duty Trucks	None	Fuel combustion	Distillate	N2O	0.005282704	

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(Version 1 - Last Updated on 11/19/2007)

All values in million metric tonne (Tg) of CO2 equivalent

Sum of the currently selected categories: 426.60

Included in the inventory?	Type of emission or sink	IPCC Code	Sector Level 1	Sector Level 2	Sector Level 3	Sector Level 4	Activity Level 1	Activity Level 2	GHG	1990
Yes	Gross Emissions	1A3bii	Transportation	On road	Light-Duty Trucks	None	Fuel combustion	Gasoline	CH4	0.317444197
Yes	Gross Emissions	1A3bii	Transportation	On road	Light-Duty Trucks	None	Fuel combustion	Gasoline	CO2	41.33702376
Yes	Gross Emissions	1A3bii	Transportation	On road	Light-Duty Trucks	None	Fuel combustion	Gasoline	N2O	2.574054979
Yes	Gross Emissions	1A3biii	Transportation	On road	Heavy-Duty Vehicles	None	Fuel combustion	Distillate	CH4	0.021008759
Yes	Gross Emissions	1A3biii	Transportation	On road	Heavy-Duty Vehicles	None	Fuel combustion	Distillate	CO2	17.40142396
Yes	Gross Emissions	1A3biii	Transportation	On road	Heavy-Duty Vehicles	None	Fuel combustion	Distillate	N2O	0.175597395
Yes	Gross Emissions	1A3biii	Transportation	On road	Heavy-Duty Vehicles	None	Fuel combustion	Gasoline	CH4	0.139871931
Yes	Gross Emissions	1A3biii	Transportation	On road	Heavy-Duty Vehicles	None	Fuel combustion	Gasoline	CO2	10.58216096
Yes	Gross Emissions	1A3biii	Transportation	On road	Heavy-Duty Vehicles	None	Fuel combustion	Gasoline	N2O	0.710599666
Yes	Gross Emissions	1A3biv	Transportation	On road	Motorcycles	None	Fuel combustion	Gasoline	CH4	0.017499342
Yes	Gross Emissions	1A3biv	Transportation	On road	Motorcycles	None	Fuel combustion	Gasoline	CO2	0.376070563
Yes	Gross Emissions	1A3biv	Transportation	On road	Motorcycles	None	Fuel combustion	Gasoline	N2O	0.032044955
Yes	Gross Emissions	1A3b	Transportation	On road	Passenger	Taxis & Buses	Fuel combustion	Natural Gas	CH4	3.89691E-06
Yes	Gross Emissions	1A3b	Transportation	On road	Passenger	Taxis & Buses	Fuel combustion	Natural Gas	CO2	0.009838425
Yes	Gross Emissions	1A3b	Transportation	On road	Passenger	Taxis & Buses	Fuel combustion	Natural Gas	N2O	5.75259E-06
Yes	Gross Emissions	1A3b	Transportation	On road	Passenger	None	Fuel combustion	Natural Gas	CH4	4.11024E-06
Yes	Gross Emissions	1A3b	Transportation	On road	Passenger	None	Fuel combustion	Natural Gas	CO2	0.010376994
Yes	Gross Emissions	1A3b	Transportation	On road	Passenger	None	Fuel combustion	Natural Gas	N2O	6.06749E-06
Yes	Gross Emissions	1A3bi	Transportation	On road	Passenger cars	None	Fuel combustion	Distillate	CH4	0.0005763
Yes	Gross Emissions	1A3bi	Transportation	On road	Passenger cars	None	Fuel combustion	Distillate	CO2	0.609849707
Yes	Gross Emissions	1A3bi	Transportation	On road	Passenger cars	None	Fuel combustion	Distillate	N2O	0.006179409
Yes	Gross Emissions	1A3bi	Transportation	On road	Passenger cars	None	Fuel combustion	Gasoline	CH4	0.436009912
Yes	Gross Emissions	1A3bi	Transportation	On road	Passenger cars	None	Fuel combustion	Gasoline	CO2	59.67638577
Yes	Gross Emissions	1A3bi	Transportation	On road	Passenger cars	None	Fuel combustion	Gasoline	N2O	3.016702125
Yes	Gross Emissions	1A3c	Transportation	Rail	Not Specified	None	Fuel combustion	Natural Gas	CH4	7.55198E-06
Yes	Gross Emissions	1A3c	Transportation	Rail	Not Specified	None	Fuel combustion	Natural Gas	CO2	0.019066263
Yes	Gross Emissions	1A3c	Transportation	Rail	Not Specified	None	Fuel combustion	Natural Gas	N2O	1.11482E-05
Yes	Gross Emissions	1A3c	Transportation	Rail	Not Specified	None	Fuel combustion	Distillate	CH4	0.00378569
Yes	Gross Emissions	1A3c	Transportation	Rail	Not Specified	None	Fuel combustion	Distillate	CO2	2.290439932
Yes	Gross Emissions	1A3c	Transportation	Rail	Not Specified	None	Fuel combustion	Distillate	N2O	0.01788288
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	Port activities	Fuel combustion	Distillate	CH4	3.71144E-05
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	Port activities	Fuel combustion	Distillate	CO2	0.014016943
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	Port activities	Fuel combustion	Distillate	N2O	0.00054788
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	Port activities	Fuel combustion	Residual Fuel Oil	CH4	0.000156651
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	Port activities	Fuel combustion	Residual Fuel Oil	CO2	0.118373692
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	Port activities	Fuel combustion	Residual Fuel Oil	N2O	0.001790886
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	waters)	Fuel combustion	Distillate	CH4	4.24848E-06
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	waters)	Fuel combustion	Distillate	CO2	0.001604516
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	waters)	Fuel combustion	Distillate	N2O	6.27156E-05
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	waters)	Fuel combustion	Residual Fuel Oil	CH4	0.000215615
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	waters)	Fuel combustion	Residual Fuel Oil	CO2	0.081605941
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	waters)	Fuel combustion	Residual Fuel Oil	N2O	0.000893706
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	Harbor craft	Fuel combustion	Distillate	CH4	0.003090438
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	Harbor craft	Fuel combustion	Distillate	CO2	1.167160413
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Intrastate	Harbor craft	Fuel combustion	Distillate	N2O	0.045620748
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Interstate	Port activities	Fuel combustion	Distillate	CH4	1.61007E-05
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Interstate	Port activities	Fuel combustion	Distillate	CO2	0.006800712
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Interstate	Port activities	Fuel combustion	Distillate	N2O	0.000237677
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Interstate	Port activities	Fuel combustion	Residual Fuel Oil	CH4	7.92211E-05
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Interstate	Port activities	Fuel combustion	Residual Fuel Oil	CO2	0.068260803
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Interstate	Port activities	Fuel combustion	Residual Fuel Oil	N2O	0.000836222
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Interstate	waters)	Fuel combustion	Distillate	CH4	6.46642E-06
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Interstate	waters)	Fuel combustion	Distillate	CO2	0.00244216
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Interstate	waters)	Fuel combustion	Distillate	N2O	9.54566E-05
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Interstate	waters)	Fuel combustion	Residual Fuel Oil	CH4	0.000385617
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Interstate	waters)	Fuel combustion	Residual Fuel Oil	CO2	0.145943671
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Interstate	waters)	Fuel combustion	Residual Fuel Oil	N2O	0.001524384
Yes	Gross Emissions	1A3di	Transportation	Water-borne	International	Port activities	Fuel combustion	Distillate	CH4	5.40197E-05
Yes	Gross Emissions	1A3di	Transportation	Water-borne	International	Port activities	Fuel combustion	Distillate	CO2	0.020401513
Yes	Gross Emissions	1A3di	Transportation	Water-borne	International	Port activities	Fuel combustion	Distillate	N2O	0.000797433
Yes	Gross Emissions	1A3di	Transportation	Water-borne	International	Port activities	Fuel combustion	Residual Fuel Oil	CH4	0.000207938
Yes	Gross Emissions	1A3di	Transportation	Water-borne	International	Port activities	Fuel combustion	Residual Fuel Oil	CO2	0.142737245
Yes	Gross Emissions	1A3di	Transportation	Water-borne	International	Port activities	Fuel combustion	Residual Fuel Oil	N2O	0.002481811
Yes	Gross Emissions	1A3di	Transportation	Water-borne	International	waters)	Fuel combustion	Distillate	CH4	1.75615E-05
Yes	Gross Emissions	1A3di	Transportation	Water-borne	International	waters)	Fuel combustion	Distillate	CO2	0.006632421
Yes	Gross Emissions	1A3di	Transportation	Water-borne	International	waters)	Fuel combustion	Distillate	N2O	0.000259241
Yes	Gross Emissions	1A3di	Transportation	Water-borne	International	waters)	Fuel combustion	Residual Fuel Oil	CH4	0.000976308
Yes	Gross Emissions	1A3di	Transportation	Water-borne	International	waters)	Fuel combustion	Residual Fuel Oil	CO2	0.369499789
Yes	Gross Emissions	1A3di	Transportation	Water-borne	International	waters)	Fuel combustion	Residual Fuel Oil	N2O	0.003962798
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Not Specified	None	Fuel combustion	Natural Gas	CH4	2.24567E-07
Yes	Gross Emissions	1A3dii	Transportation	Water-borne	Not Specified	None	Fuel combustion	Natural Gas	CO2	0.000569658
Yes	Gross Emissions	1A3	Transportation	Not Specified	Not Specified	None	Fuel combustion	Natural Gas	N2O	3.31504E-07
Yes	Gross Emissions	1A3	Transportation	Not Specified	Not Specified	None	Fuel combustion	Distillate	CH4	0.002537071
Yes	Gross Emissions	1A3	Transportation	Not Specified	Not Specified	None	Fuel combustion	Distillate	CO2	2.13193496
Yes	Gross Emissions	1A3	Transportation	Not Specified	Not Specified	None	Fuel combustion	Distillate	N2O	0.016645334
Yes	Gross Emissions	1A3	Transportation	Not Specified	Not Specified	None	Fuel combustion	LPG	CH4	7.02638E-05
Yes	Gross Emissions	1A3	Transportation	Not Specified	Not Specified	None	Fuel combustion	LPG	CO2	0.208405131
Yes	Gross Emissions	1A3	Transportation	Not Specified	Not Specified	None	Fuel combustion	LPG	N2O	0.000103723
Yes	Gross Emissions	1A3	Transportation	Not Specified	Not Specified	None	Fuel combustion	Residual Fuel Oil	CH4	8.63363E-08
Yes	Gross Emissions	1A3	Transportation	Not Specified	Not Specified	None	Fuel combustion	Residual Fuel Oil	CO2	5.89327E-05
Yes	Gross Emissions	1A3	Transportation	Not Specified	Not Specified	None	Fuel combustion	Residual Fuel Oil	N2O	4.433E-07
Yes	Gross Emissions	2D1	Transportation	Not Specified	Not Specified	None	Fuel combustion	Lubricants	CO2	0.645823811
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Bituminous Coal	CH4	0.000387554
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Bituminous Coal	CO2	1.723694011
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Bituminous Coal	N2O	0.00858156
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Lignite Coal	CH4	0
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Lignite Coal	CO2	0
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Lignite Coal	N2O	0
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Other Coal	CH4	1.46979E-06
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Other Coal	CO2	0.006537066
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Other Coal	N2O	3.25454E-05
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Tires	CH4	2.38779E-05
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Tires	CO2	0.025772952
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Tires	N2O	7.04966E-05
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Natural Gas	CH4	0.002619393
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Natural Gas	CO2	6.613342706
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Natural Gas	N2O	0.003866722
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Associated gas	CH4	0
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Associated gas	CO2	0
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Associated gas	N2O	0
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Distillate	CH4	4.21474E-05
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Distillate	CO2	0.048904412
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Distillate	N2O	0.000124435
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Petroleum Coke	CH4	0.000186428
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Petroleum Coke	CO2	0.301953911
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Petroleum Coke	N2O	0.000550406
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Propane	CH4	0

Please see READ ME FIRST tab		(Version 1 - Last Updated on 11/19/2007)				All values in million metric tonne (Tg) of CO2 equivalent					Sum of the currently selected categories: 426.60	
Included in the inventory?	Type of emission or sink	IPCC Code	Sector Level 1	Sector Level 2	Sector Level 3	Sector Level 4	Activity Level 1	Activity Level 2	GHG	1990		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Propane	CO2	0		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Propane	N2O	0		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Refinery Gas	CH4	0.000265271		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Refinery Gas	CO2	0.810465335		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Refinery Gas	N2O	0.00039159		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Residual Fuel Oil	CH4	4.16077E-06		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Residual Fuel Oil	CO2	0.005200305		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Residual Fuel Oil	N2O	1.22842E-05		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Waste Oil	CH4	0.000893315		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Waste Oil	CO2	0.10492904		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Waste Oil	N2O	0.00175827		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Digester Gas	CH4	0		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Digester Gas	N2O	0		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Digester Gas	CH4	0		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Digester Gas	N2O	0		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Landfill Gas	CH4	0		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Landfill Gas	N2O	0		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Landfill Gas	CH4	0.013146267		
Yes	Gross Emissions	1A1aii	Industrial	CHP: Industrial	Useful Thermal Output	None	Fuel combustion	Biomass	N2O	0.025875193		
Yes	Gross Emissions	1A5	Industrial	Flaring	Not Specified	None	Fuel combustion	Natural Gas	CH4	5.92139E-05		
Yes	Gross Emissions	1A5	Industrial	Flaring	Not Specified	None	Fuel combustion	Natural Gas	CO2	0.149495299		
Yes	Gross Emissions	1A5	Industrial	Flaring	Not Specified	None	Fuel combustion	Natural Gas	N2O	8.74108E-05		
Yes	Gross Emissions	4A1	Industrial	Landfills	Not Specified	None	Landfill emissions	Landfill Gas	CH4	6.25593711		
Yes	Gross Emissions	4A1	Industrial	Landfills	Not Specified	None	Landfill emissions	Landfill Gas	N2O	0		
Yes	Gross Emissions	1A2c	Industrial	Manufacturing	Chemicals & Allied Products	Fuel Use	Fuel combustion	Natural Gas	CH4	0.000380444		
Yes	Gross Emissions	1A2c	Industrial	Manufacturing	Chemicals & Allied Products	Fuel Use	Fuel combustion	Natural Gas	CO2	0.960496113		
Yes	Gross Emissions	1A2c	Industrial	Manufacturing	Chemicals & Allied Products	Fuel Use	Fuel combustion	Natural Gas	N2O	0.000561608		
Yes	Gross Emissions	1B2	Industrial	Manufacturing	Chemicals & Allied Products	Fugitives	Fugitive emissions	NA	CH4	0.022383846		
Yes	Gross Emissions	2B2	Industrial	Manufacturing	Chemicals & Allied Products	Nitric Acid	Nitric acid production	NA	N2O	0.534653327		
Yes	Gross Emissions	2B	Industrial	Manufacturing	Chemicals & Allied Products	None	Fuel consumption	Natural Gas	CO2	0.862498158		
Yes	Gross Emissions	2B	Industrial	Manufacturing	Chemicals & Allied Products	None	Fuel consumption	LPG	CO2	0.051653644		
Yes	Gross Emissions	2B	Industrial	Manufacturing	Chemicals & Allied Products	None	Fuel consumption	Petroleum feedstocks	CO2	0.893715878		
Yes	Gross Emissions	1B2	Industrial	Manufacturing	Construction	Fugitives	Fugitive emissions	NA	CH4	0.005238181		
Yes	Gross Emissions	1A2k	Industrial	Manufacturing	Construction	None	Fuel combustion	Natural Gas	CH4	4.94339E-05		
Yes	Gross Emissions	1A2k	Industrial	Manufacturing	Construction	None	Fuel combustion	Natural Gas	CO2	0.124803591		
Yes	Gross Emissions	1A2k	Industrial	Manufacturing	Construction	None	Fuel combustion	Natural Gas	N2O	7.29734E-05		
Yes	Gross Emissions	1A2k	Industrial	Manufacturing	Construction	None	Fuel combustion	Gasoline	CH4	0.000478359		
Yes	Gross Emissions	1A2k	Industrial	Manufacturing	Construction	None	Fuel combustion	Gasoline	CO2	0.540380802		
Yes	Gross Emissions	1A2k	Industrial	Manufacturing	Construction	None	Fuel combustion	Gasoline	N2O	0.001412297		
Yes	Gross Emissions	1B2	Industrial	Manufacturing	Electric & Electronic Equip.	Fugitives	Fugitive emissions	NA	CH4	8.54692E-06		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Electric & Electronic Equip.	rs & Related	Fuel combustion	Natural Gas	CH4	7.43812E-05		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Electric & Electronic Equip.	rs & Related	Fuel combustion	Natural Gas	CO2	0.187787961		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Electric & Electronic Equip.	rs & Related	Fuel combustion	Natural Gas	N2O	0.000109801		
Yes	Gross Emissions	2E	Industrial	Manufacturing	Electric & Electronic Equip.	rs & Related	manufacture	NA	rated	0.592267268		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Electric & Electronic Equip.	Broadcasting	Fuel combustion	Natural Gas	CH4	2.54806E-05		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Electric & Electronic Equip.	Broadcasting	Fuel combustion	Natural Gas	CO2	0.064330011		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Electric & Electronic Equip.	Broadcasting	Fuel combustion	Natural Gas	N2O	3.76142E-05		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Electric & Electronic Equip.	None	Fuel combustion	Natural Gas	CH4	3.82391E-05		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Electric & Electronic Equip.	None	Fuel combustion	Natural Gas	CO2	0.096541252		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Electric & Electronic Equip.	None	Fuel combustion	Natural Gas	N2O	5.64483E-05		
Yes	Gross Emissions	1A2e	Industrial	Manufacturing	Food Products	Processing	Fuel combustion	Natural Gas	CH4	0.000474038		
Yes	Gross Emissions	1A2e	Industrial	Manufacturing	Food Products	Processing	Fuel combustion	Natural Gas	CO2	1.196789803		
Yes	Gross Emissions	1A2e	Industrial	Manufacturing	Food Products	Processing	Fuel combustion	Natural Gas	N2O	0.00069977		
Yes	Gross Emissions	1B2	Industrial	Manufacturing	Food Products	Fugitives	Fugitive emissions	NA	CH4	0.01339578		
Yes	Gross Emissions	1A2e	Industrial	Manufacturing	Food Products	Confections	Fuel combustion	Natural Gas	CH4	0.000183386		
Yes	Gross Emissions	1A2e	Industrial	Manufacturing	Food Products	Confections	Fuel combustion	Natural Gas	CO2	0.46298936		
Yes	Gross Emissions	1A2e	Industrial	Manufacturing	Food Products	Confections	Fuel combustion	Natural Gas	N2O	0.000270713		
Yes	Gross Emissions	1A2e	Industrial	Manufacturing	Food Products	None	Fuel combustion	Natural Gas	CH4	0.000557992		
Yes	Gross Emissions	1A2e	Industrial	Manufacturing	Food Products	None	Fuel combustion	Natural Gas	CO2	1.408744837		
Yes	Gross Emissions	1A2e	Industrial	Manufacturing	Food Products	None	Fuel combustion	Natural Gas	N2O	0.000823702		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Instruments & Related Products	None	Fuel combustion	Natural Gas	CH4	2.81673E-05		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Instruments & Related Products	None	Fuel combustion	Natural Gas	CO2	0.071113244		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Instruments & Related Products	None	Fuel combustion	Natural Gas	N2O	4.15804E-05		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Metal Durables	Office	Fuel combustion	Natural Gas	CH4	5.17124E-05		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Metal Durables	Office	Fuel combustion	Natural Gas	CO2	0.130556889		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Metal Durables	Office	Fuel combustion	Natural Gas	N2O	7.63374E-05		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Metal Durables	Metal	Fuel combustion	Natural Gas	CH4	0.000229927		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Metal Durables	Metal	Fuel combustion	Natural Gas	CO2	0.580489797		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Metal Durables	Metal	Fuel combustion	Natural Gas	N2O	0.000339416		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Metal Durables	Machinery &	Fuel combustion	Natural Gas	CH4	7.99712E-05		
Yes	Gross Emissions	1A2h	Industrial	Manufacturing	Metal Durables	Machinery &	Fuel combustion	Natural Gas	CO2	0.201900885		
Yes	Gross Emissions	1B2	Industrial	Manufacturing	Plastics & Rubber	Fugitives	Fugitive emissions	NA	N2O	0.000118053		
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Plastics & Rubber	Plastics	Fuel combustion	Natural Gas	CH4	0.006849215		
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Plastics & Rubber	Plastics	Fuel combustion	Natural Gas	CO2	7.33181E-05		
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Plastics & Rubber	Plastics	Fuel combustion	Natural Gas	N2O	0.185103933		
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Plastics & Rubber	None	Fuel combustion	Natural Gas	CH4	0.000108231		
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Plastics & Rubber	None	Fuel combustion	Natural Gas	CO2	1.95076E-05		
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Plastics & Rubber	None	Fuel combustion	Natural Gas	N2O	0.049249987		
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Plastics & Rubber	None	Fuel combustion	Natural Gas	CH4	2.87968E-05		
Yes	Gross Emissions	1B2	Industrial	Manufacturing	Primary Metals	Fugitives	Fugitive emissions	NA	CH4	0.00108817		
Yes	Gross Emissions	1A2	Industrial	Manufacturing	Primary Metals	None	Fuel combustion	Natural Gas	CH4	0.000373473		
Yes	Gross Emissions	1A2	Industrial	Manufacturing	Primary Metals	None	Fuel combustion	Natural Gas	CO2	0.94289732		
Yes	Gross Emissions	1A2	Industrial	Manufacturing	Primary Metals	None	Fuel combustion	Natural Gas	N2O	0.000551318		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Printing & Publishing	None	Fuel combustion	Natural Gas	CH4	4.47768E-05		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Printing & Publishing	None	Fuel combustion	Natural Gas	CO2	0.113046701		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Printing & Publishing	None	Fuel combustion	Natural Gas	N2O	6.60991E-05		
Yes	Gross Emissions	1B2	Industrial	Manufacturing	Pulp & Paper	Fugitives	Fugitive emissions	NA	CH4	0.004394106		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Pulp & Paper	Paper Mills	Fuel combustion	Natural Gas	CH4	0.000154634		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Pulp & Paper	Paper Mills	Fuel combustion	Natural Gas	CO2	0.390399776		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Pulp & Paper	Paper Mills	Fuel combustion	Natural Gas	N2O	0.000228269		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Pulp & Paper	Mills	Fuel combustion	Natural Gas	CH4	0.00035974		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Pulp & Paper	Mills	Fuel combustion	Natural Gas	CO2	0.908225234		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Pulp & Paper	Mills	Fuel combustion	Natural Gas	N2O	0.000531045		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Pulp & Paper	Pulp Mills	Fuel combustion	Natural Gas	CH4	2.49894E-05		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Pulp & Paper	Pulp Mills	Fuel combustion	Natural Gas	CO2	0.063090094		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Pulp & Paper	Pulp Mills	Fuel combustion	Natural Gas	N2O	3.68892E-05		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Pulp & Paper	None	Fuel combustion	Natural Gas	CH4	0.000173566		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Pulp & Paper	None	Fuel combustion	Natural Gas	CO2	0.438196589		
Yes	Gross Emissions	1A2d	Industrial	Manufacturing	Pulp & Paper	None	Fuel combustion	Natural Gas	N2O	0.000256216		
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Coal	CH4	0.006445005		
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Coal	CO2	2.889817419		
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Coal	N2O	0.014271082		
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Tires	CH4	2.97171E-05		
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Tires	CO2	0.032149592		
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Tires	N2O	8.77362E-05		
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Natural Gas	CH4	6.10555E-05		
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Natural Gas	CO2	0.154145007		
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Natural Gas	N2O	9.01295E-05		
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Distillate	CH4	7.29338E-07		

Please see READ ME FIRST tab		(Version 1 - Last Updated on 11/19/2007)			All values in million metric tonne (Tg) of CO2 equivalent				Sum of the currently selected categories: 426.60	
Included in the inventory?	Type of emission or sink	IPCC Code	Sector Level 1	Sector Level 2	Sector Level 3	Sector Level 4	Activity Level 1	Activity Level 2	GHG	1990
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Distillate	CO2	0.000846226
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Distillate	N2O	2.15328E-06
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Petroleum Coke	CH4	0.000176547
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Petroleum Coke	CO2	0.285957021
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Petroleum Coke	N2O	0.000521234
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Residual Fuel Oil	CH4	3.63082E-05
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Residual Fuel Oil	CO2	0.045379145
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Residual Fuel Oil	N2O	0.000107196
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Fossil Waste Fuel	CH4	0.000332062
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Fossil Waste Fuel	CO2	0.042809066
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Fossil Waste Fuel	N2O	0.000653583
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Biomass Waste Fuel	CH4	0
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Fuel combustion	Biomass Waste Fuel	N2O	0
Yes	Gross Emissions	2A1	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Cement	Clinker production	NA	CO2	4.618691817
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Flat Glass	Fuel combustion	Natural Gas	CH4	3.52909E-05
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Flat Glass	Fuel combustion	Natural Gas	CO2	0.089097987
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Flat Glass	Fuel combustion	Natural Gas	N2O	5.20961E-05
Yes	Gross Emissions	1B2	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Fugitives	Fugitive emissions	NA	CH4	0.006289929
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Containers	Fuel combustion	Natural Gas	CH4	0.000283199
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Containers	Fuel combustion	Natural Gas	CO2	0.71498418
Yes	Gross Emissions	2A2	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Containers	Fuel combustion	Natural Gas	N2O	0.000413056
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	Lime	Lime production	NA	CO2	0.233502451
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	None	Fuel combustion	Natural Gas	CH4	0.000334813
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	None	Fuel combustion	Natural Gas	CO2	0.844786328
Yes	Gross Emissions	1A2f	Industrial	Manufacturing	Stone, Clay, Glass & Cement	None	Fuel combustion	Natural Gas	N2O	0.000493652
Yes	Gross Emissions	1B2	Industrial	Manufacturing	Storage Tanks	Fugitives	Fugitive emissions	NA	CH4	0.00021988
Yes	Gross Emissions	1A2i	Industrial	Manufacturing	Textiles	Apparel	Fuel combustion	Natural Gas	CH4	1.71542E-05
Yes	Gross Emissions	1A2i	Industrial	Manufacturing	Textiles	Apparel	Fuel combustion	Natural Gas	CO2	0.04330871
Yes	Gross Emissions	1A2i	Industrial	Manufacturing	Textiles	Apparel	Fuel combustion	Natural Gas	N2O	2.53229E-05
Yes	Gross Emissions	1A2i	Industrial	Manufacturing	Textiles	Leather	Fuel combustion	Natural Gas	CH4	3.21788E-06
Yes	Gross Emissions	1A2i	Industrial	Manufacturing	Textiles	Leather	Fuel combustion	Natural Gas	CO2	0.008124081
Yes	Gross Emissions	1A2i	Industrial	Manufacturing	Textiles	Leather	Fuel combustion	Natural Gas	N2O	4.7502E-06
Yes	Gross Emissions	1A2i	Industrial	Manufacturing	Textiles	Textile Mills	Fuel combustion	Natural Gas	CH4	0.000129342
Yes	Gross Emissions	1A2i	Industrial	Manufacturing	Textiles	Textile Mills	Fuel combustion	Natural Gas	CO2	0.326547108
Yes	Gross Emissions	1A2i	Industrial	Manufacturing	Textiles	Textile Mills	Fuel combustion	Natural Gas	N2O	0.000190934
Yes	Gross Emissions	1A2e	Industrial	Manufacturing	Tobacco	None	Fuel combustion	Natural Gas	CH4	7.24709E-09
Yes	Gross Emissions	1A2e	Industrial	Manufacturing	Tobacco	None	Fuel combustion	Natural Gas	CO2	1.82965E-05
Yes	Gross Emissions	1A2e	Industrial	Manufacturing	Tobacco	None	Fuel combustion	Natural Gas	N2O	1.06981E-08
Yes	Gross Emissions	1A2g	Industrial	Manufacturing	Transportation Equip.	None	Fuel combustion	Natural Gas	CH4	0.000211097
Yes	Gross Emissions	1A2g	Industrial	Manufacturing	Transportation Equip.	None	Fuel combustion	Natural Gas	CO2	0.532951147
Yes	Gross Emissions	1A2g	Industrial	Manufacturing	Transportation Equip.	None	Fuel combustion	Natural Gas	N2O	0.00031162
Yes	Gross Emissions	4D2	Industrial	Manufacturing	Wastewater Treatment	Fugitives	Fugitive emissions	NA	CH4	1.85728E-05
Yes	Gross Emissions	1A2j	Industrial	Manufacturing	Wood & Furniture	Fixtures	Fuel combustion	Natural Gas	CH4	2.04582E-05
Yes	Gross Emissions	1A2j	Industrial	Manufacturing	Wood & Furniture	Fixtures	Fuel combustion	Natural Gas	CO2	0.051650131
Yes	Gross Emissions	1A2j	Industrial	Manufacturing	Wood & Furniture	Fixtures	Fuel combustion	Natural Gas	N2O	3.02002E-05
Yes	Gross Emissions	1A2j	Industrial	Manufacturing	Wood & Furniture	Wood	Fuel combustion	Natural Gas	CH4	7.29675E-05
Yes	Gross Emissions	1A2j	Industrial	Manufacturing	Wood & Furniture	Wood	Fuel combustion	Natural Gas	CO2	0.184219001
Yes	Gross Emissions	1A2j	Industrial	Manufacturing	Wood & Furniture	Wood	Fuel combustion	Natural Gas	N2O	0.000107714
Yes	Gross Emissions	1B2	Industrial	Manufacturing	Not Specified	Fugitives	Fugitive emissions	NA	CH4	0.045534791
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Coal	CH4	0.001230621
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Coal	CO2	0.551787083
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Coal	N2O	0.002724947
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Natural Gas	CH4	1.48714E-05
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Natural Gas	CO2	0.03754546
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Natural Gas	N2O	2.19531E-05
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Natural Gas Liquids	CH4	0.000311238
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Natural Gas Liquids	CO2	0.33016626
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Natural Gas Liquids	N2O	0.000918894
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Distillate	CH4	0.003390325
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Distillate	CO2	3.933680797
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Distillate	N2O	0.01009953
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Gasoline	CH4	0.0010046
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Gasoline	CO2	1.181619687
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Gasoline	N2O	0.003088189
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Kerosene	CH4	6.65949E-06
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Kerosene	CO2	0.007637701
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Kerosene	N2O	1.96613E-05
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	LPG	CH4	0.000668136
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	LPG	CO2	1.981717026
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	LPG	N2O	0.000980295
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Residual Fuel Oil	CH4	0.000508841
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Residual Fuel Oil	CO2	0.635695923
Yes	Gross Emissions	1A2m	Industrial	Manufacturing	Not Specified	None	Fuel combustion	Residual Fuel Oil	N2O	0.001502284
Yes	Gross Emissions	1A2i	Industrial	Mining	Coal	None	Fuel combustion	Natural Gas	CH4	7.66857E-10
Yes	Gross Emissions	1A2i	Industrial	Mining	Coal	None	Fuel combustion	Natural Gas	CO2	1.93608E-06
Yes	Gross Emissions	1A2i	Industrial	Mining	Coal	None	Fuel combustion	Natural Gas	N2O	1.13203E-09
Yes	Gross Emissions	1A2i	Industrial	Mining	Metals	None	Fuel combustion	Natural Gas	CH4	1.30748E-07
Yes	Gross Emissions	1A2i	Industrial	Mining	Metals	None	Fuel combustion	Natural Gas	CO2	0.00033009
Yes	Gross Emissions	1A2i	Industrial	Mining	Metals	None	Fuel combustion	Natural Gas	N2O	1.93006E-07
Yes	Gross Emissions	1A2i	Industrial	Mining	Non Metals	None	Fuel combustion	Natural Gas	CH4	1.08798E-05
Yes	Gross Emissions	1A2i	Industrial	Mining	Non Metals	None	Fuel combustion	Natural Gas	CO2	0.0274675
Yes	Gross Emissions	1A2i	Industrial	Mining	Non Metals	None	Fuel combustion	Natural Gas	N2O	1.60604E-05
Yes	Gross Emissions	1B2	Industrial	Extraction	Petroleum Gas Seeps	Fugitives	Fugitive emissions	NA	CH4	0.240705244
Yes	Gross Emissions	1B2	Industrial	Extraction	Process Losses	Fugitives	Fugitive emissions	NA	CH4	0.417650985
Yes	Gross Emissions	1B2	Industrial	Extraction	Storage Tanks	Fugitives	Fugitive emissions	NA	CH4	0.256925562
Yes	Gross Emissions	4D2	Industrial	Extraction	Wastewater Treatment	Fugitives	Fugitive emissions	NA	CH4	0.000150618
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Natural Gas	CH4	0.002267864
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Natural Gas	CO2	5.725610498
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Natural Gas	N2O	0.0033478
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Associated gas	CH4	0.001699315
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Associated gas	CO2	5.270901077
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Associated gas	N2O	0.002058513
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Distillate	CH4	0.000181069
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Distillate	CO2	2.010088279
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Distillate	N2O	0.000534585
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Residual Fuel Oil	CH4	1.06247E-05
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Residual Fuel Oil	CO2	0.013279084
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Residual Fuel Oil	N2O	3.13682E-05
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Crude oil	CH4	0.002107174
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Crude oil	CO2	2.49145309
Yes	Gross Emissions	1A1cii	Industrial	Extraction	Not Specified	None	Fuel combustion	Crude oil	N2O	0.006221181
Yes	Gross Emissions	1B2	Industrial	Marketing	Process Losses	Fugitives	Fugitive emissions	NA	CH4	0.007687636
Yes	Gross Emissions	1B2	Industrial	Marketing	Storage Tanks	Fugitives	Fugitive emissions	NA	CH4	0.008290795
Yes	Gross Emissions	4D2	Industrial	Marketing	Wastewater Treatment	Fugitives	Fugitive emissions	NA	CH4	5.50523E-06
Yes	Gross Emissions	1B2aiii	Industrial	Petroleum Refining	Process Losses	Fugitives	Fugitive emissions	NA	CH4	0.136732396
Yes	Gross Emissions	1B2aiii	Industrial	Petroleum Refining	Storage Tanks	Fugitives	Fugitive emissions	NA	CH4	0.00229178
Yes	Gross Emissions	2H3	Industrial	Petroleum Refining	Transformation	None	Fuel consumption	Natural Gas	CO2	2.100491245

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(Version 1 - Last Updated on 11/19/2007)

All values in million metric tonne (Tg) of CO2 equivalent

Sum of the currently selected categories:

426.60

Included in the inventory?	Type of emission or sink	IPCC Code	Sector Level 1	Sector Level 2	Sector Level 3	Sector Level 4	Activity Level 1	Activity Level 2	GHG	1990
Yes	Gross Emissions	2H3	Industrial	Petroleum Refining	Transformation	None	Fuel consumption	Natural Gas Liquids	CO2	0.274545457
Yes	Gross Emissions	2H3	Industrial	Petroleum Refining	Transformation	None	Fuel consumption	Naphtha	CO2	0.415907184
Yes	Gross Emissions	2H3	Industrial	Petroleum Refining	Transformation	None	Fuel consumption	Refinery Gas	CO2	2.100491245
Yes	Gross Emissions	2H3	Industrial	Petroleum Refining	Transformation	None	Fuel consumption	Residual Fuel Oil	CO2	0.15356573
Yes	Gross Emissions	4D2	Industrial	Petroleum Refining	Wastewater Treatment	Fugitives	Fugitive emissions	NA	CH4	0.001656955
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Natural Gas	CH4	0.001705102
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Natural Gas	CO2	4.30482136
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Natural Gas	N2O	0.002517056
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Associated gas	CH4	0.000211323
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Associated gas	CO2	0.655476654
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Associated gas	N2O	0.000311953
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Distillate	CH4	3.08259E-06
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Distillate	CO2	0.003576626
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Distillate	N2O	9.10098E-06
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	LPG	CH4	0.000285986
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	LPG	CO2	0.857741508
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	LPG	N2O	0.000422169
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Petroleum Coke	CH4	0.000368518
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Petroleum Coke	CO2	0.59689546
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Petroleum Coke	N2O	0.001089004
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Refinery Gas	CH4	0.005173396
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Refinery Gas	CO2	15.82040382
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Refinery Gas	N2O	0.007644299
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Residual Fuel Oil	CH4	0.00016956
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Residual Fuel Oil	CO2	0.212421222
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Residual Fuel Oil	N2O	0.000501786
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Catalyst Coke	CH4	0.003738286
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Catalyst Coke	CO2	5.146732376
Yes	Gross Emissions	1A1b	Industrial	Petroleum Refining	Not Specified	None	Fuel combustion	Catalyst Coke	N2O	0.011036845
Yes	Gross Emissions	1B2b	Industrial	Pipelines	Natural Gas	Fugitives	Fugitive emissions	NA	CH4	1.504949638
Yes	Gross Emissions	1A1cii	Industrial	Pipelines	Natural Gas Pipelines	None	Fuel combustion	Natural Gas	CH4	2.877E-10
Yes	Gross Emissions	1A1cii	Industrial	Pipelines	Natural Gas Pipelines	None	Fuel combustion	Natural Gas	CO2	7.26349E-07
Yes	Gross Emissions	1A1cii	Industrial	Pipelines	Natural Gas Pipelines	None	Fuel combustion	Natural Gas	N2O	4.247E-10
Yes	Gross Emissions	1A1cii	Industrial	Pipelines	Non Natural Gas Pipelines	None	Fuel combustion	Natural Gas	CH4	5.04557E-05
Yes	Gross Emissions	1A1cii	Industrial	Pipelines	Non Natural Gas Pipelines	None	Fuel combustion	Natural Gas	CO2	0.127384001
Yes	Gross Emissions	1A1cii	Industrial	Pipelines	Non Natural Gas Pipelines	None	Fuel combustion	Natural Gas	N2O	7.44822E-05
Yes	Gross Emissions	4D1	Industrial	treatment	Domestic Waste Water	None	California Population	NA	CH4	2.00757538
Yes	Gross Emissions	4D1	Industrial	treatment	Domestic Waste Water	None	California Population	NA	N2O	0.825637985
Yes	Gross Emissions	4D2	Industrial	treatment	Industrial Waste Water	None	Production Processed	Fruit and Vegetables	CH4	0.222387403
Yes	Gross Emissions	4D2	Industrial	treatment	Industrial Waste Water	None	Production Processed	Poultry	CH4	0.0420857
Yes	Gross Emissions	4D2	Industrial	treatment	Industrial Waste Water	None	Production Processed	Red Meat	CH4	0.068962218
Yes	Gross Emissions	1B2	Industrial	Not Specified	Not Specified	Fugitives	Fugitive emissions	NA	CH4	0.262546196
Yes	Gross Emissions	1A2m	Industrial	Not Specified	Not Specified	None	Fuel combustion	Wood (Wet)	CH4	0.041139
Yes	Gross Emissions	1A2m	Industrial	Not Specified	Not Specified	None	Fuel combustion	Wood (Wet)	N2O	0.080972
Yes	Gross Emissions	2D4	Industrial	Not Specified	Not Specified	None	Fuel consumption	Asphalt	CO2	0
Yes	Gross Emissions	2D1	Industrial	Not Specified	Not Specified	None	Fuel consumption	Lubricants	CO2	0.484311621
Yes	Gross Emissions	2D4	Industrial	Not Specified	Not Specified	None	Fuel consumption	Naphtha	CO2	0.937824247
Yes	Gross Emissions	2D4	Industrial	Not Specified	Not Specified	None	Fuel consumption	Other Petroleum Products	CO2	0.218743027
Yes	Gross Emissions	2D2	Industrial	Not Specified	Not Specified	None	Fuel consumption	Waxes	CO2	0
Yes	Gross Emissions	2G4	Industrial	Not Specified	Not Specified	None	CO2 Consumption	NA	CO2	0.12942257
Yes	Gross Emissions	2G4	Industrial	Not Specified	Not Specified	None	consumption	NA	CO2	0.137745104
Yes	Gross Emissions	2G4	Industrial	Not Specified	Not Specified	None	Soda ash consumption	NA	CO2	0.340795666
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Natural Gas	CH4	0.000153003
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Natural Gas	CO2	0.386295767
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Natural Gas	N2O	0.000225861
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Distillate	CH4	3.8573E-06
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Distillate	CO2	0.004475694
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Distillate	N2O	1.13882E-05
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Jet Fuel	CH4	0
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Jet Fuel	CO2	0
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Jet Fuel	N2O	0
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Propane	CH4	0
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Propane	CO2	0
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Propane	N2O	0
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Refinery Gas	CH4	3.10876E-06
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Refinery Gas	CO2	0.00949799
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Refinery Gas	N2O	4.58912E-06
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Waste Oil	CH4	5.04E-09
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Waste Oil	CO2	0.000005952
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Waste Oil	N2O	9.92E-09
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Digester Gas	CH4	1.57773E-07
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Digester Gas	N2O	2.32903E-07
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Landfill Gas	CH4	0
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Landfill Gas	N2O	0
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Biomass	CH4	0
Yes	Gross Emissions	1A1aii	Commercial	CHP: Commercial	Useful Thermal Output	None	Fuel combustion	Biomass	N2O	0
Yes	Gross Emissions	1A4a	Commercial	Communication	Other Message Communications	None	Fuel combustion	Natural Gas	CH4	4.2029E-07
Yes	Gross Emissions	1A4a	Commercial	Communication	Other Message Communications	None	Fuel combustion	Natural Gas	CO2	0.000212219
Yes	Gross Emissions	1A4a	Commercial	Communication	Other Message Communications	None	Fuel combustion	Natural Gas	N2O	1.24086E-07
Yes	Gross Emissions	1A4a	Commercial	Communication	Radio Broadcasting Stations	None	Fuel combustion	Natural Gas	CH4	9.54916E-06
Yes	Gross Emissions	1A4a	Commercial	Communication	Radio Broadcasting Stations	None	Fuel combustion	Natural Gas	CO2	0.004821699
Yes	Gross Emissions	1A4a	Commercial	Communication	Radio Broadcasting Stations	None	Fuel combustion	Natural Gas	N2O	2.81928E-06
Yes	Gross Emissions	1A4a	Commercial	Communication	Telephone & Cell Phone Services	None	Fuel combustion	Natural Gas	CH4	9.4625E-05
Yes	Gross Emissions	1A4a	Commercial	Communication	Telephone & Cell Phone Services	None	Fuel combustion	Natural Gas	CO2	0.047779365
Yes	Gross Emissions	1A4a	Commercial	Communication	Telephone & Cell Phone Services	None	Fuel combustion	Natural Gas	N2O	2.79369E-05
Yes	Gross Emissions	1A4a	Commercial	Communication	U.S. Postal Service	None	Fuel combustion	Natural Gas	CH4	2.86408E-05
Yes	Gross Emissions	1A4a	Commercial	Communication	U.S. Postal Service	None	Fuel combustion	Natural Gas	CO2	0.014461706
Yes	Gross Emissions	1A4a	Commercial	Communication	U.S. Postal Service	None	Fuel combustion	Natural Gas	N2O	8.45585E-06
Yes	Gross Emissions	1A4a	Commercial	Communication	Not Specified	None	Fuel combustion	Natural Gas	CH4	4.67827E-06
Yes	Gross Emissions	1A4a	Commercial	Communication	Not Specified	None	Fuel combustion	Natural Gas	CO2	0.002362216
Yes	Gross Emissions	1A4a	Commercial	Communication	Not Specified	None	Fuel combustion	Natural Gas	N2O	1.3812E-06
Yes	Gross Emissions	1A4a	Commercial	Domestic Utilities	Electricity, Natural Gas & Steam	None	Fuel combustion	Natural Gas	CH4	0.00027986
Yes	Gross Emissions	1A4a	Commercial	Domestic Utilities	Electricity, Natural Gas & Steam	None	Fuel combustion	Natural Gas	CO2	0.141310806
Yes	Gross Emissions	1A4a	Commercial	Domestic Utilities	Electricity, Natural Gas & Steam	None	Fuel combustion	Natural Gas	N2O	8.26253E-05
Yes	Gross Emissions	1A4a	Commercial	Domestic Utilities	Sewerage Systems	None	Fuel combustion	Natural Gas	CH4	0.000145882
Yes	Gross Emissions	1A4a	Commercial	Domestic Utilities	Sewerage Systems	None	Fuel combustion	Natural Gas	CO2	0.073660956
Yes	Gross Emissions	1A4a	Commercial	Domestic Utilities	Sewerage Systems	None	Fuel combustion	Natural Gas	N2O	4.307E-05
Yes	Gross Emissions	1A4a	Commercial	Domestic Utilities	Streetslights	None	Fuel combustion	Natural Gas	CH4	1.66327E-06
Yes	Gross Emissions	1A4a	Commercial	Domestic Utilities	Streetslights	None	Fuel combustion	Natural Gas	CO2	0.00083984
Yes	Gross Emissions	1A4a	Commercial	Domestic Utilities	Streetslights	None	Fuel combustion	Natural Gas	N2O	4.91059E-07
Yes	Gross Emissions	1A4a	Commercial	Domestic Utilities	Water Supply	None	Fuel combustion	Natural Gas	CH4	0.000241639
Yes	Gross Emissions	1A4a	Commercial	Domestic Utilities	Water Supply	None	Fuel combustion	Natural Gas	CO2	0.122011527
Yes	Gross Emissions	1A4a	Commercial	Domestic Utilities	Water Supply	None	Fuel combustion	Natural Gas	N2O	7.13409E-05
Yes	Gross Emissions	1A4a	Commercial	Education	College	None	Fuel combustion	Natural Gas	CH4	0.001378902
Yes	Gross Emissions	1A4a	Commercial	Education	College	None	Fuel combustion	Natural Gas	CO2	0.696254484
Yes	Gross Emissions	1A4a	Commercial	Education	College	None	Fuel combustion	Natural Gas	N2O	0.000407104
Yes	Gross Emissions	1A4a	Commercial	Education	School	None	Fuel combustion	Natural Gas	CH4	0.001419579

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All values in million metric tonne (Tg) of CO2 equivalent

Sum of the currently selected categories:

426.60

Included in the inventory?	Type of emission or sink	IPCC Code	Sector Level 1	Sector Level 2	Sector Level 3	Sector Level 4	Activity Level 1	Activity Level 2	GHG	1990
Yes	Gross Emissions	1A4a	Commercial	Education	School	None	Fuel combustion	Natural Gas	CO2	0.716794
Yes	Gross Emissions	1A4a	Commercial	Education	School	None	Fuel combustion	Natural Gas	N2O	0.000419114
Yes	Gross Emissions	1A4a	Commercial	Food Services	Food & Liquor	None	Fuel combustion	Natural Gas	CH4	0.000505485
Yes	Gross Emissions	1A4a	Commercial	Food Services	Food & Liquor	None	Fuel combustion	Natural Gas	CO2	0.255236812
Yes	Gross Emissions	1A4a	Commercial	Food Services	Food & Liquor	None	Fuel combustion	Natural Gas	N2O	0.000149239
Yes	Gross Emissions	1A4a	Commercial	Food Services	Restaurant	None	Fuel combustion	Natural Gas	CH4	0.002323638
Yes	Gross Emissions	1A4a	Commercial	Food Services	Restaurant	None	Fuel combustion	Natural Gas	CO2	1.632774184
Yes	Gross Emissions	1A4a	Commercial	Food Services	Restaurant	None	Fuel combustion	Natural Gas	N2O	0.000954693
Yes	Gross Emissions	1A4a	Commercial	Health Care	Not Specified	None	Fuel combustion	Natural Gas	CH4	0.002614042
Yes	Gross Emissions	1A4a	Commercial	Health Care	Not Specified	None	Fuel combustion	Natural Gas	CO2	1.319918926
Yes	Gross Emissions	1A4a	Commercial	Health Care	Not Specified	None	Fuel combustion	Natural Gas	N2O	0.000771765
Yes	Gross Emissions	1A4a	Commercial	Hotels	Not Specified	None	Fuel combustion	Natural Gas	CH4	0.001325043
Yes	Gross Emissions	1A4a	Commercial	Hotels	Not Specified	None	Fuel combustion	Natural Gas	CO2	0.669059346
Yes	Gross Emissions	1A4a	Commercial	Hotels	Not Specified	None	Fuel combustion	Natural Gas	N2O	0.000391203
Yes	Gross Emissions	1A4a	Commercial	National Security	Not Specified	None	Fuel combustion	Natural Gas	CH4	0.001114465
Yes	Gross Emissions	1A4a	Commercial	National Security	Not Specified	None	Fuel combustion	Natural Gas	CO2	0.56282456
Yes	Gross Emissions	1A4a	Commercial	National Security	Not Specified	None	Fuel combustion	Natural Gas	N2O	0.000329087
Yes	Gross Emissions	1A4a	Commercial	Offices	Not Specified	None	Fuel combustion	Natural Gas	CH4	0.002876601
Yes	Gross Emissions	1A4a	Commercial	Offices	Not Specified	None	Fuel combustion	Natural Gas	CO2	1.452493686
Yes	Gross Emissions	1A4a	Commercial	Offices	Not Specified	None	Fuel combustion	Natural Gas	N2O	0.000849282
Yes	Gross Emissions	1A4a	Commercial	Retail & Wholesale	Refrigerated Warehousing	None	Fuel combustion	Natural Gas	CH4	0.000156257
Yes	Gross Emissions	1A4a	Commercial	Retail & Wholesale	Refrigerated Warehousing	None	Fuel combustion	Natural Gas	CO2	0.078899276
Yes	Gross Emissions	1A4a	Commercial	Retail & Wholesale	Refrigerated Warehousing	None	Fuel combustion	Natural Gas	N2O	4.61329E-05
Yes	Gross Emissions	1A4a	Commercial	Retail & Wholesale	Retail	None	Fuel combustion	Natural Gas	CH4	0.000572942
Yes	Gross Emissions	1A4a	Commercial	Retail & Wholesale	Retail	None	Fuel combustion	Natural Gas	CO2	0.289297761
Yes	Gross Emissions	1A4a	Commercial	Retail & Wholesale	Retail	None	Fuel combustion	Natural Gas	N2O	0.000169154
Yes	Gross Emissions	1A4a	Commercial	Retail & Wholesale	Warehousing	None	Fuel combustion	Natural Gas	CH4	0.000619038
Yes	Gross Emissions	1A4a	Commercial	Retail & Wholesale	Warehousing	None	Fuel combustion	Natural Gas	CO2	0.312573394
Yes	Gross Emissions	1A4a	Commercial	Retail & Wholesale	Warehousing	None	Fuel combustion	Natural Gas	N2O	0.000182764
Yes	Gross Emissions	1A4a	Commercial	Services	Airports	None	Fuel combustion	Natural Gas	CH4	4.67422E-05
Yes	Gross Emissions	1A4a	Commercial	Services	Airports	None	Fuel combustion	Natural Gas	CO2	0.02360175
Yes	Gross Emissions	1A4a	Commercial	Services	Airports	None	Fuel combustion	Natural Gas	N2O	1.38001E-05
Yes	Gross Emissions	1A4a	Commercial	Services	Transportation	None	Fuel combustion	Natural Gas	CH4	1.37982E-05
Yes	Gross Emissions	1A4a	Commercial	Services	Transportation	None	Fuel combustion	Natural Gas	CO2	0.006967161
Yes	Gross Emissions	1A4a	Commercial	Services	Transportation	None	Fuel combustion	Natural Gas	N2O	4.07374E-06
Yes	Gross Emissions	1A4a	Commercial	Services	Water Transportation	None	Fuel combustion	Natural Gas	CH4	7.49741E-06
Yes	Gross Emissions	1A4a	Commercial	Services	Water Transportation	None	Fuel combustion	Natural Gas	CO2	0.003785699
Yes	Gross Emissions	1A4a	Commercial	Services	Water Transportation	None	Fuel combustion	Natural Gas	N2O	2.21352E-06
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Coal	CH4	0.000121716
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Coal	CO2	0.054575136
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Coal	N2O	0.000269514
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Natural Gas	CH4	0.0044327
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Natural Gas	CO2	2.238221582
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Natural Gas	N2O	0.001308702
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Distillate	CH4	0.005167212
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Distillate	CO2	1.798603109
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Distillate	N2O	0.004576673
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Gasoline	CH4	0.00212507
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Gasoline	CO2	0.720179365
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Gasoline	N2O	0.001882205
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Kerosene	CH4	0.000200151
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Kerosene	CO2	0.068865364
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Kerosene	N2O	0.000177277
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	LPG	CH4	0.000386337
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	LPG	CO2	0.229177906
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	LPG	N2O	0.000114061
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Residual Fuel Oil	CH4	0.0011034
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Residual Fuel Oil	CO2	0.41371907
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Residual Fuel Oil	N2O	0.000977297
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Wood (Wet)	CH4	0.025434079
Yes	Gross Emissions	1A4a	Commercial	Not Specified	Not Specified	None	Fuel combustion	Wood (Wet)	N2O	0.005006073
Yes	Gross Emissions	1A4b	Residential	Household Use	Not Specified	None	Fuel combustion	Natural Gas	CH4	0.054785627
Yes	Gross Emissions	1A4b	Residential	Household Use	Not Specified	None	Fuel combustion	Natural Gas	CO2	27.66313079
Yes	Gross Emissions	1A4b	Residential	Household Use	Not Specified	None	Fuel combustion	Natural Gas	N2O	0.016174804
Yes	Gross Emissions	1A4b	Residential	Household Use	Not Specified	None	Fuel combustion	Distillate	CH4	0.000254465
Yes	Gross Emissions	1A4b	Residential	Household Use	Not Specified	None	Fuel combustion	Distillate	CO2	0.088574221
Yes	Gross Emissions	1A4b	Residential	Household Use	Not Specified	None	Fuel combustion	Distillate	N2O	0.000225383
Yes	Gross Emissions	1A4b	Residential	Household Use	Not Specified	None	Fuel combustion	Kerosene	CH4	0.000156095
Yes	Gross Emissions	1A4b	Residential	Household Use	Not Specified	None	Fuel combustion	Kerosene	CO2	0.05370718
Yes	Gross Emissions	1A4b	Residential	Household Use	Not Specified	None	Fuel combustion	Kerosene	N2O	0.000138256
Yes	Gross Emissions	1A4b	Residential	Household Use	Not Specified	None	Fuel combustion	LPG	CH4	0.002189606
Yes	Gross Emissions	1A4b	Residential	Household Use	Not Specified	None	Fuel combustion	LPG	CO2	1.299298484
Yes	Gross Emissions	1A4b	Residential	Household Use	Not Specified	None	Fuel combustion	LPG	N2O	0.00064816
Yes	Gross Emissions	1A4b	Residential	Household Use	Not Specified	None	Fuel combustion	Wood (Wet)	CH4	0.40005
Yes	Gross Emissions	1A4b	Residential	Household Use	Not Specified	None	Fuel combustion	Wood (Wet)	N2O	0.07874
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Crop Production	None	Fuel combustion	Natural Gas	CH4	0.000984906
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Crop Production	None	Fuel combustion	Natural Gas	CO2	0.446819276
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Crop Production	None	Fuel combustion	Natural Gas	N2O	0.000261258
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Irrigation	None	Fuel combustion	Natural Gas	CH4	7.57845E-05
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Irrigation	None	Fuel combustion	Natural Gas	CO2	0.038266163
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Irrigation	None	Fuel combustion	Natural Gas	N2O	2.23745E-05
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Livestock	None	Fuel combustion	Natural Gas	CH4	0.00010504
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Livestock	None	Fuel combustion	Natural Gas	CO2	0.053038242
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Livestock	None	Fuel combustion	Natural Gas	N2O	3.10118E-05
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	Natural Gas	CH4	6.5382E-07
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	Natural Gas	CO2	0.000330136
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	Natural Gas	N2O	1.93032E-07
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	Distillate	CH4	0.009639443
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	Distillate	CO2	3.35297319
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	Distillate	N2O	0.008537792
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	Gasoline	CH4	0.001278532
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	Gasoline	CO2	0.433290343
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	Gasoline	N2O	0.001132414
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	Kerosene	CH4	5.4999E-06
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	Kerosene	CO2	0.001892334
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	Kerosene	N2O	4.87134E-06
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	LPG	CH4	0.000258872
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	LPG	CO2	0.153655171
Yes	Gross Emissions	1A4c	Agriculture & Forestry	Ag Energy Use	Not Specified	None	Fuel combustion	LPG	N2O	7.6429E-05
Yes	Gross Emissions	3C1b	Agriculture & Forestry	Ag Residue Burning	Field crops	None	Crop acreage burned	Barley	CH4	0.001347479
Yes	Gross Emissions	3C1b	Agriculture & Forestry	Ag Residue Burning	Field crops	None	Crop acreage burned	Barley	N2O	0.001610637
Yes	Gross Emissions	3C1b	Agriculture & Forestry	Ag Residue Burning	Field crops	None	Crop acreage burned	Corn	CH4	0.001500467
Yes	Gross Emissions	3C1b	Agriculture & Forestry	Ag Residue Burning	Field crops	None	Crop acreage burned	Corn	N2O	0.0012657
Yes	Gross Emissions	3C1b	Agriculture & Forestry	Ag Residue Burning	Field crops	None	Crop acreage burned	Rice	CH4	0.014707784
Yes	Gross Emissions	3C1b	Agriculture & Forestry	Ag Residue Burning	Field crops	None	Crop acreage burned	Rice	N2O	0.060309697
Yes	Gross Emissions	3C1b	Agriculture & Forestry	Ag Residue Burning	Field crops	None	Crop acreage burned	Wheat	CH4	0.00456795
Yes	Gross Emissions	3C1b	Agriculture & Forestry	Ag Residue Burning	Field crops	None	Crop acreage burned	Wheat	N2O	0.003705035

Please see READ ME FIRST tab		(Version 1 - Last Updated on 11/19/2007)				All values in million metric tonne (Tg) of CO2 equivalent				Sum of the currently selected categories: 426.60	
Included in the inventory?	Type of emission or sink	IPCC Code	Sector Level 1	Sector Level 2	Sector Level 3	Sector Level 4	Activity Level 1	Activity Level 2	GHG	1990	
Yes	Gross Emissions	3C1b	Agriculture & Forestry	Ag Residue Burning	Orchard & vineyard	None	Crop acreage burned	Almond	CH4	0.006458165	
Yes	Gross Emissions	3C1b	Agriculture & Forestry	Ag Residue Burning	Orchard & vineyard	None	Crop acreage burned	Almond	N2O	0.01629655	
Yes	Gross Emissions	3C1b	Agriculture & Forestry	Ag Residue Burning	Orchard & vineyard	None	Crop acreage burned	Walnut	CH4	0.004411229	
Yes	Gross Emissions	3C1b	Agriculture & Forestry	Ag Residue Burning	Orchard & vineyard	None	Crop acreage burned	Walnut	N2O	0.007941237	
Yes	Gross Emissions	3C4	Agriculture & Forestry	Management	Crop residues	Direct	residues	NA	N2O	0.092826179	
Yes	Gross Emissions	3C4	Agriculture & Forestry	Management	Fertilizer	Direct	fertilizer	Organic fertilizers	N2O	0.011926298	
Yes	Gross Emissions	3C4	Agriculture & Forestry	Management	Fertilizer	Direct	fertilizer	Synthetic fertilizers	N2O	2.239488065	
Yes	Gross Emissions	3C5	Agriculture & Forestry	Management	Fertilizer	Indirect	fertilizer	Organic fertilizers	N2O	0.002981574	
Yes	Gross Emissions	3C5	Agriculture & Forestry	Management	Fertilizer	Indirect	fertilizer	Synthetic fertilizers	N2O	0.248832007	
Yes	Gross Emissions	3C5	Agriculture & Forestry	Management	Fertilizer	Indirect	fertilizer (leaching &	Organic fertilizers	N2O	0.002683417	
Yes	Gross Emissions	3C5	Agriculture & Forestry	Management	Fertilizer	Indirect	fertilizer (leaching &	Synthetic fertilizers	N2O	0.503884815	
Yes	Gross Emissions	3C2	Agriculture & Forestry	Management	Liming	None	soils	NA	CO2	0.000453582	
Yes	Gross Emissions	3C2	Agriculture & Forestry	Management	Liming	None	soils	NA	CO2	0.072075053	
Yes	Gross Emissions	3C4	Agriculture & Forestry	Management	Manure	Direct	deposited on	NA	N2O	1.549333758	
Yes	Gross Emissions	3C4	Agriculture & Forestry	Management	Manure	Direct	spread daily	NA	N2O	0.077878675	
Yes	Gross Emissions	3C5	Agriculture & Forestry	Management	Manure	Indirect	(leaching & runoff)	NA	N2O	0.324784553	
Yes	Gross Emissions	3C5	Agriculture & Forestry	Management	Manure	Indirect	from manure on soils	NA	N2O	0.360871725	
Yes	Gross Emissions	3C4	Agriculture & Forestry	Management	Nitrogen fixation	Direct	legume crops	NA	N2O	1.052275795	
Yes	Gross Emissions	3A1aii	Agriculture & Forestry	Fermentation	Cattle	None	Livestock population	Beef Cows	CH4	1.480055462	
Yes	Gross Emissions	3A1aii	Agriculture & Forestry	Fermentation	Cattle	None	Livestock population	months	CH4	0.114938306	
Yes	Gross Emissions	3A1aii	Agriculture & Forestry	Fermentation	Cattle	None	Livestock population	months	CH4	0.0313895	
Yes	Gross Emissions	3A1aii	Agriculture & Forestry	Fermentation	Cattle	None	Livestock population	Bulls	CH4	0.078625559	
Yes	Gross Emissions	3A1ai	Agriculture & Forestry	Fermentation	Cattle	None	Livestock population	Dairy Cows	CH4	3.014481249	
Yes	Gross Emissions	3A1ai	Agriculture & Forestry	Fermentation	Cattle	None	Livestock population	months	CH4	0.488323684	
Yes	Gross Emissions	3A1ai	Agriculture & Forestry	Fermentation	Cattle	None	Livestock population	months	CH4	0.129364514	
Yes	Gross Emissions	3A1aii	Agriculture & Forestry	Fermentation	Cattle	None	Livestock population	Heifer Feedlot	CH4	0.121585113	
Yes	Gross Emissions	3A1aii	Agriculture & Forestry	Fermentation	Cattle	None	Livestock population	Heifer Stockers	CH4	0.115027153	
Yes	Gross Emissions	3A1aii	Agriculture & Forestry	Fermentation	Cattle	None	Livestock population	Steer Feedlot	CH4	0.24292488	
Yes	Gross Emissions	3A1aii	Agriculture & Forestry	Fermentation	Cattle	None	Livestock population	Steer Stockers	CH4	0.433757717	
Yes	Gross Emissions	3A1d	Agriculture & Forestry	Fermentation	Other Livestock	None	Livestock population	Goats	CH4	0.003536715	
Yes	Gross Emissions	3A1f	Agriculture & Forestry	Fermentation	Other Livestock	None	Livestock population	Horses	CH4	0.239881446	
Yes	Gross Emissions	3A1c	Agriculture & Forestry	Fermentation	Other Livestock	None	Livestock population	Sheep	CH4	0.168	
Yes	Gross Emissions	3A1h	Agriculture & Forestry	Fermentation	Other Livestock	None	Livestock population	Swine	CH4	0.0061425	
Yes	Gross Emissions	3B1	Agriculture & Forestry	management	Not Specified	None	Fire	Forest	N2O	0.012553174	
Yes	Gross Emissions	3B1	Agriculture & Forestry	management	Not Specified	None	Fire	Rangeland	N2O	0.002510635	
Yes	Gross Emissions	3B1	Agriculture & Forestry	management	Not Specified	None	disturbances	Forest	CH4	0.15321562	
Yes	Gross Emissions	3B1	Agriculture & Forestry	management	Not Specified	None	disturbances	Rangeland	CH4	0.021887946	
Yes	Gross Emissions	3C4	Agriculture & Forestry	Histosol cultivation	Not Specified	Direct	Histosols cultivation	NA	N2O	0.181209954	
Yes	Gross Emissions	3A2ai	Agriculture & Forestry	management	Cattle	None	Livestock population	Dairy Cows	CH4	4.011842649	
Yes	Gross Emissions	3A2ai	Agriculture & Forestry	management	Cattle	None	Livestock population	Dairy Cows	N2O	0.083759619	
Yes	Gross Emissions	3A2ai	Agriculture & Forestry	management	Cattle	None	Livestock population	Dairy Heifers	CH4	0.026885206	
Yes	Gross Emissions	3A2ai	Agriculture & Forestry	management	Cattle	None	Livestock population	Dairy Heifers	N2O	0.236616501	
Yes	Gross Emissions	3A2aii	Agriculture & Forestry	management	Cattle	None	Livestock population	Feedlot - Heifers 500+ lbs	CH4	0.007627267	
Yes	Gross Emissions	3A2aii	Agriculture & Forestry	management	Cattle	None	Livestock population	Feedlot - Heifers 500+ lbs	N2O	0.040671147	
Yes	Gross Emissions	3A2aii	Agriculture & Forestry	management	Cattle	None	Livestock population	Feedlot - Steers 500+ lbs	CH4	0.02952608	
Yes	Gross Emissions	3A2aii	Agriculture & Forestry	management	Cattle	None	Livestock population	Feedlot - Steers 500+ lbs	N2O	0.16704771	
Yes	Gross Emissions	3A2aii	Agriculture & Forestry	management	Cattle	None	Livestock population	Not on Feed - Beef Cows	CH4	0.043582829	
Yes	Gross Emissions	3A2aii	Agriculture & Forestry	management	Cattle	None	Livestock population	Not on Feed - Beef Cows	N2O	0	
Yes	Gross Emissions	3A2aii	Agriculture & Forestry	management	Cattle	None	Livestock population	Not on Feed - Bulls 500+ lbs	CH4	0.004143488	
Yes	Gross Emissions	3A2aii	Agriculture & Forestry	management	Cattle	None	Livestock population	Not on Feed - Bulls 500+ lbs	N2O	0	
Yes	Gross Emissions	3A2aii	Agriculture & Forestry	management	Cattle	None	Livestock population	lbs	CH4	0.012014093	
Yes	Gross Emissions	3A2aii	Agriculture & Forestry	management	Cattle	None	Livestock population	lbs	N2O	0	
Yes	Gross Emissions	3A2aii	Agriculture & Forestry	management	Cattle	None	Livestock population	lbs	CH4	0.008939128	
Yes	Gross Emissions	3A2aii	Agriculture & Forestry	management	Cattle	None	Livestock population	lbs	N2O	0	
Yes	Gross Emissions	3A2aii	Agriculture & Forestry	management	Cattle	None	Livestock population	lbs	CH4	0.010439824	
Yes	Gross Emissions	3A2aii	Agriculture & Forestry	management	Cattle	None	Livestock population	lbs	N2O	0	
Yes	Gross Emissions	3A2d	Agriculture & Forestry	management	Other Livestock	None	Livestock population	Goats	CH4	0.000265163	
Yes	Gross Emissions	3A2d	Agriculture & Forestry	management	Other Livestock	None	Livestock population	Goats	N2O	0	
Yes	Gross Emissions	3A2f	Agriculture & Forestry	management	Other Livestock	None	Livestock population	Horses	CH4	0.034944139	
Yes	Gross Emissions	3A2f	Agriculture & Forestry	management	Other Livestock	None	Livestock population	Horses	N2O	0	
Yes	Gross Emissions	3A2c	Agriculture & Forestry	management	Other Livestock	None	Livestock population	Sheep	CH4	0.016405825	
Yes	Gross Emissions	3A2c	Agriculture & Forestry	management	Other Livestock	None	Livestock population	Sheep	N2O	0.002050169	
Yes	Gross Emissions	3A2i	Agriculture & Forestry	management	Poultry	None	Livestock population	Broilers	CH4	0.01555333	
Yes	Gross Emissions	3A2i	Agriculture & Forestry	management	Poultry	None	Livestock population	Broilers	N2O	0.007252688	
Yes	Gross Emissions	3A2i	Agriculture & Forestry	management	Poultry	None	Livestock population	Hens 1+ yr	CH4	0.095994039	
Yes	Gross Emissions	3A2i	Agriculture & Forestry	management	Poultry	None	Livestock population	Hens 1+ yr	N2O	0.019281105	
Yes	Gross Emissions	3A2i	Agriculture & Forestry	management	Poultry	None	Livestock population	Other Chickens	CH4	0.000709708	
Yes	Gross Emissions	3A2i	Agriculture & Forestry	management	Poultry	None	Livestock population	Other Chickens	N2O	0.000159064	
Yes	Gross Emissions	3A2i	Agriculture & Forestry	management	Poultry	None	Livestock population	Pullets	CH4	0.017877875	
Yes	Gross Emissions	3A2i	Agriculture & Forestry	management	Poultry	None	Livestock population	Pullets	N2O	0.003355166	
Yes	Gross Emissions	3A2i	Agriculture & Forestry	management	Poultry	None	Livestock population	Turkeys	CH4	0.023737354	
Yes	Gross Emissions	3A2h	Agriculture & Forestry	management	Swine	None	Livestock population	Turkeys	N2O	0.011515068	
Yes	Gross Emissions	3A2h	Agriculture & Forestry	management	Swine	None	Livestock population	Swine - Breeding	CH4	0.016560835	
Yes	Gross Emissions	3A2h	Agriculture & Forestry	management	Swine	None	Livestock population	Swine - Breeding	N2O	0.000267538	
Yes	Gross Emissions	3A2h	Agriculture & Forestry	management	Swine	None	Livestock population	Swine - Market <60 lbs	CH4	0.009625156	
Yes	Gross Emissions	3A2h	Agriculture & Forestry	management	Swine	None	Livestock population	Swine - Market <60 lbs	N2O	0.000117394	
Yes	Gross Emissions	3A2h	Agriculture & Forestry	management	Swine	None	Livestock population	Swine - Market 120-179 lbs	CH4	0.013032766	
Yes	Gross Emissions	3A2h	Agriculture & Forestry	management	Swine	None	Livestock population	Swine - Market 120-179 lbs	N2O	0.000181327	
Yes	Gross Emissions	3A2h	Agriculture & Forestry	management	Swine	None	Livestock population	Swine - Market 180+ lbs	CH4	0.015188941	
Yes	Gross Emissions	3A2h	Agriculture & Forestry	management	Swine	None	Livestock population	Swine - Market 180+ lbs	N2O	0.000211326	
Yes	Gross Emissions	3A2h	Agriculture & Forestry	management	Swine	None	Livestock population	Swine - Market 60-119 lbs	CH4	0.012332162	
Yes	Gross Emissions	3A2h	Agriculture & Forestry	management	Swine	None	Livestock population	Swine - Market 60-119 lbs	N2O	0.000171579	
Yes	Sinks	3B	Agriculture & Forestry	change	Not Specified	None	Land use and forestry	Net CO2 flux	CO2	-6.89028	
Yes	Gross Emissions	3C7	Agriculture & Forestry	Rice cultivation	Field crops	None	Harvested rice area	NA	CH4	0.409552353	
Yes	Gross Emissions	1A5	Not Specified	Not Specified	Not Specified	None	Fuel combustion	Natural Gas	CH4	0.000434344	
Yes	Gross Emissions	1A5	Not Specified	Not Specified	Not Specified	None	Fuel combustion	Natural Gas	CO2	1.096576735	
Yes	Gross Emissions	1A5	Not Specified	Not Specified	Not Specified	None	Fuel combustion	Natural Gas	N2O	0.000641175	
Yes	Gross Emissions	1A5	Not Specified	Not Specified	Not Specified	None	Fuel combustion	LPG	CH4	4.50789E-05	
Yes	Gross Emissions	1A5	Not Specified	Not Specified	Not Specified	None	Fuel combustion	LPG	CO2	0.133705914	
Yes	Gross Emissions	1A5	Not Specified	Not Specified	Not Specified	None	Fuel combustion	LPG	N2O	6.65451E-05	
Yes	Gross Emissions	2F	Not Specified	Not Specified	Not Specified	None	ozone depleting	NA	CF4	0	
Yes	Gross Emissions	2F	Not Specified	Not Specified	Not Specified	None	ozone depleting	NA	125	0	
Yes	Gross Emissions	2F	Not Specified	Not Specified	Not Specified	None	ozone depleting	NA	134a	0	
Yes	Gross Emissions	2F	Not Specified	Not Specified	Not Specified	None	ozone depleting	NA	143a	0	
Yes	Gross Emissions	2F	Not Specified	Not Specified	Not Specified	None	ozone depleting	NA	HFC-23	0	
Yes	Gross Emissions	2F	Not Specified	Not Specified	Not Specified	None	ozone depleting	NA	236fa	0	
Yes	Gross Emissions	2F	Not Specified	Not Specified	Not Specified	None	ozone depleting	NA	HFC-32	0	
Yes	Gross Emissions	2F	Not Specified	Not Specified	Not Specified	None	ozone depleting	NA	ODS	0.036017297	

Report P-2A: Total Estimated and Projected Population for California and Counties: July 1, 2010 to 2060

Geography	Estimates										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
California	37,366,938	37,721,468	38,088,009	38,389,174	38,705,642	39,007,121	39,254,339	39,488,430	39,670,349	39,761,195	39,782,419
Alameda County	1,516,721	1,533,933	1,557,015	1,578,702	1,601,584	1,622,375	1,638,966	1,650,752	1,660,097	1,668,965	1,671,855
Alpine County	1,175	1,170	1,166	1,164	1,161	1,154	1,151	1,146	1,135	1,123	1,115
Amador County	37,678	36,944	36,582	36,098	36,324	36,168	36,634	37,125	37,775	37,724	37,577
Butte County	220,359	220,862	221,996	222,194	223,449	224,023	224,386	225,834	226,440	214,532	206,362
Calaveras County	45,542	45,399	45,296	45,117	45,014	44,907	44,763	44,656	44,572	44,403	44,286
Colusa County	21,330	21,392	21,471	21,557	21,536	21,612	21,870	22,021	21,958	22,045	22,075
Contra Costa County	1,052,554	1,065,922	1,078,172	1,091,909	1,104,505	1,118,662	1,130,529	1,137,047	1,144,318	1,147,269	1,149,800
Del Norte County	28,409	28,196	27,921	27,420	27,039	26,847	26,761	26,545	27,116	27,207	27,193
El Dorado County	181,151	180,909	181,117	182,162	182,156	182,583	183,444	185,442	187,911	188,818	192,012
Fresno County	933,249	943,807	952,995	960,712	969,839	979,625	988,106	998,099	1,008,758	1,018,437	1,026,358
Glenn County	28,233	28,285	28,128	28,185	28,298	28,286	28,352	28,481	28,614	29,072	29,507
Humboldt County	135,102	135,383	134,730	134,562	134,252	134,596	135,300	135,141	134,819	133,820	132,706
Imperial County	175,401	177,931	179,294	180,066	182,565	184,460	185,711	186,968	187,942	188,962	188,090
Inyo County	18,547	18,559	18,584	18,591	18,650	18,635	18,628	18,565	18,521	18,463	18,429
Kern County	842,069	850,777	859,630	868,744	875,136	881,129	884,612	892,933	901,403	909,697	912,975
Kings County	152,398	151,701	150,150	150,219	149,214	149,455	148,774	150,300	152,647	153,522	154,745
Lake County	65,056	64,921	64,976	64,900	65,073	64,690	64,343	64,627	64,590	64,080	63,771
Lassen County	34,789	34,370	32,736	31,888	31,219	30,200	29,756	29,756	29,693	28,972	28,872
Los Angeles County	9,845,931	9,910,160	9,999,902	10,054,919	10,107,698	10,155,982	10,190,115	10,222,857	10,226,503	10,210,966	10,171,593
Madera County	150,182	151,629	150,810	150,810	153,989	154,166	154,691	156,077	157,602	157,686	158,794
Marin County	252,655	254,925	256,578	259,376	261,672	262,041	263,010	262,313	262,234	260,969	258,956
Mariposa County	18,245	18,241	18,224	18,157	18,135	18,086	18,066	17,992	17,903	17,842	17,778
Mendocino County	87,755	87,319	88,021	88,024	88,379	88,091	88,536	88,749	88,493	88,125	87,491
Merced County	256,785	260,096	263,018	264,353	266,898	268,843	270,860	275,186	277,910	281,592	284,761
Modoc County	9,688	9,682	9,633	9,610	9,585	9,542	9,502	9,480	9,488	9,458	9,416
Mono County	14,020	14,289	14,065	13,843	13,872	13,744	13,627	13,634	13,546	13,585	13,447
Monterey County	416,005	420,485	424,867	426,959	429,418	434,604	438,591	439,822	441,764	443,397	441,290
Napa County	136,587	137,560	139,026	140,772	141,772	141,390	141,649	140,986	140,361	139,874	138,711
Nevada County	98,709	98,592	98,129	97,752	98,223	97,836	97,828	97,821	97,892	97,808	97,439
Orange County	3,016,796	3,052,320	3,086,559	3,110,857	3,132,650	3,154,363	3,169,925	3,188,779	3,195,455	3,195,197	3,190,832
Placer County	350,664	356,423	360,938	365,273	368,808	371,896	376,991	383,058	389,435	394,626	397,469
Plumas County	19,969	19,817	19,334	18,806	18,513	18,225	18,399	18,369	18,323	18,450	18,246
Riverside County	2,198,479	2,231,323	2,254,977	2,276,536	2,302,308	2,327,112	2,355,098	2,382,791	2,408,532	2,428,464	2,449,299
Sacramento County	1,422,960	1,435,731	1,446,890	1,456,539	1,473,337	1,488,917	1,504,354	1,518,307	1,534,274	1,548,760	1,562,242
San Benito County	55,527	56,081	56,726	57,254	57,892	58,464	59,207	59,737	60,781	62,051	62,789
San Bernardino County	2,044,890	2,065,910	2,076,228	2,087,639	2,103,161	2,118,684	2,131,737	2,147,398	2,160,791	2,176,150	2,184,112
San Diego County	3,104,732	3,141,469	3,179,970	3,212,923	3,248,917	3,275,036	3,296,528	3,315,358	3,338,877	3,346,937	3,352,145
San Francisco County	810,504	821,955	836,474	847,529	857,901	869,403	878,993	887,383	893,733	897,114	899,891
San Joaquin County	688,464	695,133	700,882	705,941	716,383	727,038	737,230	747,517	756,749	767,935	776,068
San Luis Obispo County	269,450	270,909	273,283	273,973	276,210	276,584	277,937	277,821	278,177	277,276	276,151
San Mateo County	721,354	730,476	742,440	750,593	758,083	765,820	769,722	772,567	774,822	776,002	775,132
Santa Barbara County	424,109	425,981	430,791	435,222	439,463	443,640	446,157	448,099	450,444	452,066	451,329
Santa Clara County	1,791,215	1,817,135	1,845,959	1,872,615	1,897,429	1,924,097	1,939,104	1,949,735	1,958,640	1,960,932	1,962,251
Santa Cruz County	262,813	265,851	268,379	271,105	272,102	274,514	275,247	274,574	273,426	272,185	270,067
Shasta County	177,376	177,779	178,323	178,832	179,127	178,496	177,581	177,998	178,002	177,620	177,692
Sierra County	3,233	3,223	3,208	3,192	3,171	3,152	3,147	3,149	3,136	3,127	3,117
Siskiyou County	44,855	44,885	44,861	44,750	44,709	44,540	44,418	44,233	44,127	44,000	43,792
Solano County	412,862	415,230	417,926	421,173	425,377	428,906	433,020	436,316	438,535	439,990	440,198
Sonoma County	484,055	487,722	490,740	495,339	498,782	501,512	503,322	502,758	498,849	495,058	491,134
Stanislaus County	516,583	519,563	524,239	527,585	531,075	536,530	542,234	548,252	551,901	554,212	555,955
Sutter County	94,888	94,747	95,211	96,477	95,959	96,796	97,666	99,130	100,859	102,808	101,160
Tehama County	63,380	63,220	63,136	62,939	63,053	63,396	63,882	64,020	64,442	65,163	65,266
Trinity County	13,798	13,732	13,731	13,685	13,626	13,556	13,489	13,454	13,385	13,374	13,291
Tulare County	442,517	448,129	452,660	455,992	459,464	463,671	466,775	470,746	473,928	477,731	480,788
Tuolumne County	55,240	54,980	53,965	54,349	53,823	53,531	53,291	52,862	52,843	52,557	52,353
Ventura County	824,935	832,155	836,627	841,744	845,608	848,687	848,858	848,624	848,214	844,213	841,439
Yolo County	202,619	203,324	206,166	208,205	209,643	212,374	216,215	218,617	220,565	220,723	221,718
Yuba County	72,346	72,826	73,154	73,318	73,805	74,449	75,251	76,423	77,099	78,061	79,089

Projections Prepared by Demographic Research Unit, California Department of Finance, July 2021

Report P-2A: Total Estim

Geography	Projections																
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
California	39,953,269	40,146,003	40,354,217	40,574,215	40,808,001	41,028,749	41,245,009	41,456,075	41,660,700	41,860,549	42,050,984	42,231,577	42,403,084	42,565,496	42,718,403	42,862,413	42,998,578
Alameda County	1,678,334	1,689,538	1,701,203	1,713,352	1,725,911	1,737,897	1,750,185	1,762,278	1,774,021	1,785,496	1,796,389	1,806,886	1,817,160	1,826,836	1,836,364	1,845,580	1,854,119
Alpine County	1,133	1,139	1,154	1,147	1,153	1,169	1,172	1,168	1,170	1,185	1,178	1,178	1,186	1,184	1,171	1,154	1,157
Amador County	37,986	38,161	38,325	38,505	38,679	38,858	38,969	39,177	39,272	39,394	39,484	39,582	39,649	39,709	39,756	39,772	39,775
Butte County	226,910	227,736	228,623	229,680	230,691	231,850	233,054	234,252	235,535	236,874	238,043	239,100	240,138	241,241	242,240	243,267	244,009
Calaveras County	44,153	44,150	44,222	44,325	44,443	44,551	44,677	44,824	44,877	44,919	45,031	45,085	45,102	45,106	45,087	45,100	45,075
Colusa County	22,786	22,872	22,958	23,061	23,163	23,262	23,368	23,442	23,534	23,670	23,790	23,883	23,979	24,068	24,164	24,247	24,309
Contra Costa County	1,159,507	1,168,294	1,177,674	1,187,319	1,197,341	1,207,010	1,216,561	1,225,927	1,235,072	1,244,173	1,252,822	1,261,125	1,269,131	1,276,564	1,283,681	1,290,333	1,296,655
Del Norte County	26,840	26,792	26,750	26,711	26,754	26,743	26,746	26,753	26,743	26,750	26,724	26,723	26,707	26,687	26,610	26,604	26,619
El Dorado County	189,089	190,012	191,185	192,321	193,540	194,767	196,048	197,342	198,682	200,004	201,296	202,556	203,736	204,882	205,978	206,915	207,843
Fresno County	1,021,649	1,029,118	1,036,949	1,045,168	1,053,955	1,062,455	1,071,030	1,079,374	1,088,052	1,096,638	1,104,788	1,112,625	1,120,478	1,128,083	1,135,837	1,143,329	1,150,287
Glenn County	29,185	29,212	29,310	29,405	29,510	29,628	29,733	29,849	29,968	30,068	30,190	30,282	30,395	30,473	30,562	30,643	30,692
Humboldt County	134,214	134,138	134,132	134,066	134,057	134,060	134,048	133,983	133,879	133,738	133,502	133,292	133,013	132,864	132,602	132,250	131,960
Imperial County	191,619	192,960	194,510	196,081	197,859	199,616	201,258	202,982	204,734	206,486	208,229	210,005	211,640	213,300	214,817	216,401	217,837
Inyo County	18,172	18,142	18,094	18,065	18,055	18,053	18,029	18,029	18,008	18,020	17,944	17,922	17,914	17,902	17,864	17,843	17,785
Kern County	920,651	929,851	939,622	950,312	961,629	973,008	984,466	995,947	1,007,442	1,019,221	1,031,106	1,042,584	1,053,926	1,064,810	1,075,952	1,086,939	1,097,529
Kings County	155,100	156,164	157,316	158,508	159,733	160,975	162,152	163,383	164,556	165,752	166,945	168,160	169,215	170,383	171,517	172,646	173,826
Lake County	64,174	64,138	64,123	64,175	64,259	64,326	64,445	64,586	64,656	64,764	64,874	64,977	65,061	65,165	65,237	65,299	65,348
Lassen County	29,965	29,842	29,724	29,643	29,526	29,424	29,327	29,161	29,031	28,894	28,768	28,611	28,416	28,269	28,106	27,905	27,780
Los Angeles County	10,198,389	10,208,717	10,222,748	10,239,018	10,258,572	10,274,982	10,289,079	10,301,702	10,312,825	10,322,678	10,330,019	10,334,051	10,335,522	10,334,878	10,331,803	10,326,562	10,319,773
Madera County	161,121	162,722	164,472	166,348	168,293	170,225	172,067	174,013	176,067	178,070	180,087	182,136	184,114	185,932	187,842	189,654	191,533
Marin County	258,165	257,795	257,610	257,485	257,394	257,286	257,241	257,248	257,126	257,024	256,893	256,760	256,562	256,325	256,131	255,796	255,365
Mariposa County	17,571	17,556	17,518	17,531	17,574	17,554	17,576	17,596	17,622	17,631	17,629	17,634	17,654	17,655	17,636	17,650	17,607
Mendocino County	88,297	88,353	88,463	88,602	88,746	88,918	89,008	89,122	89,182	89,232	89,263	89,273	89,200	89,193	89,106	88,961	88,843
Merced County	285,601	288,601	291,616	294,870	298,184	301,452	304,946	308,224	311,449	314,690	318,059	321,257	324,468	327,566	330,805	333,944	337,125
Modoc County	9,384	9,374	9,376	9,313	9,320	9,307	9,283	9,249	9,214	9,134	9,080	9,026	9,002	8,946	8,896	8,850	8,791
Mono County	13,838	13,898	13,929	13,959	13,985	14,011	14,053	14,077	14,092	14,118	14,149	14,153	14,146	14,130	14,130	14,102	14,088
Monterey County	445,181	447,300	449,346	451,660	453,956	456,120	458,172	460,271	462,250	464,124	465,895	467,370	469,044	470,383	471,901	473,171	474,504
Napa County	139,369	139,518	139,854	140,302	140,748	141,194	141,767	142,259	142,800	143,223	143,762	144,288	144,671	145,080	145,444	145,689	146,073
Nevada County	98,017	98,157	98,438	98,702	99,131	99,536	99,946	100,254	100,615	101,004	101,305	101,609	101,850	102,170	102,479	102,700	102,890
Orange County	3,209,272	3,218,111	3,227,671	3,238,007	3,249,431	3,259,465	3,268,633	3,277,260	3,285,053	3,291,863	3,298,259	3,304,440	3,307,647	3,311,586	3,314,115	3,316,090	3,317,018
Placer County	396,376	400,664	405,139	404,544	409,745	414,544	419,179	423,871	428,336	433,069	437,655	441,971	446,459	450,962	455,050	458,999	462,816
Plumas County	19,124	19,041	18,977	18,864	18,919	18,806	18,746	18,694	18,589	18,493	18,422	18,318	18,185	18,080	17,974	17,864	17,750
Riverside County	2,477,971	2,506,351	2,535,310	2,564,271	2,593,906	2,622,165	2,649,606	2,676,555	2,702,520	2,728,068	2,752,205	2,775,197	2,797,672	2,819,818	2,840,775	2,860,864	2,879,929
Sacramento County	1,558,537	1,571,846	1,586,033	1,600,724	1,615,713	1,630,449	1,644,917	1,659,505	1,673,203	1,687,220	1,700,633	1,713,870	1,727,135	1,739,487	1,751,463	1,763,272	1,774,777
San Benito County	61,719	62,124	62,565	63,086	63,604	64,172	64,720	65,247	65,813	66,355	66,895	67,418	67,935	68,430	68,908	69,334	69,728
San Bernardino County	2,200,340	2,216,865	2,234,540	2,253,485	2,273,291	2,292,597	2,311,663	2,330,747	2,349,477	2,368,002	2,386,587	2,404,527	2,422,176	2,439,613	2,456,262	2,472,791	2,489,237
San Diego County	3,343,827	3,356,185	3,369,636	3,383,663	3,398,922	3,414,460	3,429,725	3,444,361	3,459,124	3,473,883	3,488,416	3,502,819	3,517,180	3,530,781	3,544,589	3,558,589	3,572,351
San Francisco County	892,429	897,416	902,614	907,825	913,369	918,229	923,210	928,064	932,479	936,862	941,052	944,955	948,754	952,602	956,232	959,726	963,251
San Joaquin County	775,350	783,706	792,428	801,359	810,495	819,449	828,200	836,634	845,116	853,661	861,873	869,577	877,224	884,613	891,642	898,296	904,922
San Luis Obispo County	278,574	279,268	280,072	280,760	281,643	282,403	283,152	283,837	284,334	284,729	285,288	285,644	285,792	285,946	285,918	286,006	285,745
San Mateo County	774,990	777,635	780,650	783,809	787,161	790,224	792,889	795,422	797,884	800,006	801,879	803,806	805,378	806,945	808,253	809,373	810,641
Santa Barbara County	453,498	455,127	456,844	458,879	460,973	463,045	464,910	466,411	468,057	469,717	471,199	472,812	474,085	475,093	476,193	477,040	477,846
Santa Clara County	1,974,827	1,987,898	2,001,338	2,015,833	2,030,957	2,045,458	2,060,348	2,075,273	2,090,542	2,105,066	2,119,554	2,134,383	2,148,607	2,162,384	2,175,951	2,189,406	2,202,687
Santa Cruz County	275,023	276,024	277,087	278,304	279,617	280,708	281,716	282,692	283,728	284,670	285,523	286,330	287,041	287,679	288,195	288,658	289,071
Shasta County	176,451	176,682	177,032	177,468	178,006	178,489	179,002	179,564	180,027	180,498	181,069	181,570	182,027	182,291	182,530	182,832	183,050
Sierra County	3,098	3,077	3,081	3,065	3,037	3,010	2,986	2,966	2,935	2,903	2,898	2,899	2,889	2,878	2,862	2,848	2,821
Siskiyou County	43,315	43,169	43,066	43,042	42,979	42,916	42,881	42,780	42,763	42,700	42,643	42,577	42,441	42,277	42,195	42,062	41,907
Solano County	445,326	448,896	452,768	456,654	460,736	464,514	468,424	472,103	475,787	479,372	482,857	486,522	489,814	493,184	496,286	499,419	502,382
Sonoma County	500,879	502,866	504,996	507,388	509,995	512,497	514,886	517,080	519,211	521,303	523,211	525,126	526,902	528,363	529,766	530,896	531,846
Stanislaus County	561,951	566,365	571,277	576,213	581,308	586,330	591,434	596,470	601,427	606,128	610,672						

Report P-2A: Total Estim

Geography	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
California	43,126,054	43,243,462	43,353,414	43,454,656	43,548,719	43,634,900	43,713,905	43,785,947	43,850,633	43,909,258	43,961,292	44,008,766	44,049,015	44,083,767	44,113,374	44,139,271	44,160,168
Alameda County	1,862,352	1,870,263	1,877,766	1,884,790	1,891,379	1,897,799	1,903,489	1,909,308	1,914,540	1,919,711	1,924,414	1,928,883	1,933,085	1,936,591	1,939,717	1,943,205	1,945,878
Alpine County	1,157	1,146	1,135	1,132	1,120	1,115	1,104	1,115	1,106	1,077	1,068	1,057	1,047	1,035	1,041	1,032	1,023
Amador County	39,788	39,761	39,743	39,733	39,696	39,651	39,608	39,539	39,498	39,458	39,407	39,393	39,360	39,302	39,282	39,286	39,297
Butte County	244,839	245,663	246,453	247,009	247,661	248,205	248,808	249,467	250,161	250,748	251,334	251,936	252,567	253,113	253,709	254,335	254,927
Calaveras County	45,011	44,896	44,860	44,711	44,628	44,520	44,456	44,368	44,282	44,186	44,102	44,048	43,966	43,941	43,911	43,868	43,837
Colusa County	24,382	24,436	24,471	24,533	24,566	24,582	24,620	24,653	24,612	24,620	24,603	24,631	24,635	24,639	24,638	24,627	24,611
Contra Costa County	1,302,419	1,307,663	1,312,536	1,317,066	1,321,303	1,324,900	1,328,202	1,331,431	1,334,258	1,336,670	1,338,954	1,340,731	1,342,620	1,344,253	1,345,247	1,346,569	1,347,195
Del Norte County	26,561	26,574	26,498	26,448	26,432	26,361	26,287	26,226	26,193	26,098	26,096	26,022	25,975	25,907	25,921	25,858	25,787
El Dorado County	208,678	209,428	210,196	211,020	211,681	212,169	212,804	213,236	213,692	214,246	214,697	215,030	215,511	215,915	216,383	216,785	217,317
Fresno County	1,157,145	1,163,940	1,170,525	1,176,794	1,182,857	1,188,840	1,194,521	1,200,150	1,205,540	1,210,863	1,215,946	1,220,997	1,226,158	1,230,913	1,235,657	1,240,391	1,245,035
Glenn County	30,719	30,754	30,769	30,802	30,837	30,852	30,854	30,890	30,886	30,862	30,873	30,873	30,881	30,862	30,811	30,834	30,833
Humboldt County	131,545	131,099	130,791	130,432	129,927	129,346	128,877	128,450	128,021	127,605	127,123	126,699	126,261	125,840	125,449	125,000	124,527
Imperial County	219,407	220,897	222,307	223,686	225,131	226,607	227,925	229,206	230,429	231,700	232,953	234,113	235,339	236,471	237,667	238,844	239,886
Inyo County	17,778	17,610	17,552	17,494	17,438	17,371	17,308	17,204	17,089	16,985	16,877	16,777	16,671	16,584	16,455	16,352	16,202
Kern County	1,107,667	1,117,647	1,127,781	1,137,676	1,147,276	1,156,455	1,165,656	1,174,771	1,183,428	1,192,100	1,200,490	1,208,956	1,217,086	1,225,116	1,233,197	1,240,949	1,248,990
Kings County	174,833	175,856	176,940	178,085	179,069	179,500	180,841	181,726	182,661	183,439	184,270	185,072	185,868	186,639	187,457	188,309	189,038
Lake County	65,396	65,414	65,505	65,515	65,595	65,642	65,682	65,769	65,885	65,888	65,989	66,065	66,151	66,162	66,331	66,472	66,623
Lassen County	27,619	27,469	27,293	27,086	26,930	26,747	26,569	26,400	26,207	26,026	25,845	25,692	25,569	25,341	25,215	25,084	24,947
Los Angeles County	10,310,942	10,299,452	10,286,350	10,271,162	10,254,276	10,236,386	10,216,381	10,193,978	10,170,764	10,146,283	10,118,948	10,092,021	10,061,774	10,030,622	9,997,512	9,964,011	9,928,491
Madera County	193,416	195,209	197,025	198,803	200,446	202,255	203,879	205,517	207,038	208,648	210,228	211,847	213,456	214,905	216,464	217,931	219,369
Marin County	254,758	254,145	253,549	252,860	252,166	251,299	250,297	249,270	248,325	247,292	246,221	245,055	243,838	242,534	241,386	240,173	238,735
Mariposa County	17,598	17,519	17,490	17,463	17,435	17,396	17,358	17,332	17,280	17,252	17,232	17,208	17,199	17,167	17,093	17,057	17,072
Mendocino County	88,600	88,410	88,205	87,988	87,766	87,497	87,212	86,956	86,689	86,383	86,075	85,847	85,573	85,321	85,056	84,812	84,583
Merced County	340,103	343,108	346,085	348,841	351,690	354,567	357,199	359,888	362,542	365,031	367,655	370,095	372,461	375,026	377,490	380,071	382,252
Modoc County	8,759	8,666	8,567	8,561	8,523	8,404	8,355	8,307	8,240	8,162	8,119	8,062	8,028	7,968	7,923	7,909	7,878
Mono County	14,068	14,034	14,009	13,992	13,897	13,845	13,777	13,726	13,670	13,578	13,536	13,431	13,367	13,209	13,137	13,052	13,014
Monterey County	475,487	476,404	477,265	478,209	479,105	479,667	480,178	480,694	480,936	481,156	481,319	481,307	481,305	481,075	480,745	480,396	480,251
Napa County	146,225	146,518	146,602	146,722	146,742	146,655	146,632	146,641	146,510	146,537	146,392	146,221	146,050	145,924	145,662	145,394	145,195
Nevada County	103,011	103,122	103,193	103,306	103,484	103,555	103,575	103,639	103,623	103,632	103,659	103,695	103,775	103,864	104,079	104,302	104,557
Orange County	3,317,528	3,317,008	3,315,726	3,313,767	3,310,994	3,307,827	3,303,878	3,299,179	3,293,948	3,288,323	3,282,194	3,275,598	3,268,048	3,259,887	3,251,268	3,242,438	3,232,660
Placer County	469,811	473,089	476,434	479,381	482,304	485,163	487,973	490,609	492,908	495,184	497,353	499,504	501,591	503,777	505,775	507,858	510,049
Plumas County	17,573	17,449	17,289	17,152	16,941	16,791	16,753	16,634	16,470	16,352	16,188	16,051	15,924	15,798	15,766	15,662	15,529
Riverside County	2,898,485	2,916,191	2,933,038	2,948,870	2,964,079	2,978,249	2,991,970	3,004,816	3,016,907	3,028,421	3,039,045	3,049,338	3,059,095	3,068,091	3,076,669	3,084,584	3,092,479
Sacramento County	1,786,340	1,797,296	1,808,307	1,818,580	1,828,375	1,838,309	1,848,027	1,857,394	1,866,569	1,875,381	1,884,072	1,893,008	1,901,507	1,909,932	1,917,948	1,925,704	1,933,612
San Benito County	70,105	70,485	70,866	71,169	71,478	71,800	72,090	72,395	72,658	72,888	73,133	73,362	73,558	73,757	73,976	74,196	74,413
San Bernardino County	2,505,305	2,521,098	2,536,592	2,552,141	2,567,233	2,582,287	2,596,969	2,611,160	2,625,811	2,639,957	2,653,877	2,667,937	2,681,796	2,695,548	2,709,334	2,722,645	2,736,431
San Diego County	3,531,323	3,538,029	3,543,663	3,549,251	3,554,583	3,559,642	3,563,986	3,567,892	3,571,952	3,575,240	3,578,745	3,581,511	3,583,006	3,584,567	3,586,291	3,587,163	3,587,230
San Francisco County	966,592	969,669	972,787	976,090	979,206	982,242	985,536	988,709	991,846	995,171	998,319	1,001,572	1,004,943	1,008,393	1,011,835	1,015,300	1,018,952
San Joaquin County	911,242	917,320	923,341	928,950	934,256	939,215	944,120	948,975	953,366	957,609	961,616	965,075	968,662	972,105	975,600	978,679	981,751
San Luis Obispo County	285,465	284,928	284,346	283,704	282,890	282,072	281,127	280,262	279,223	277,983	276,966	275,810	274,677	273,542	272,346	271,251	270,020
San Mateo County	811,644	812,362	813,098	813,710	814,327	814,578	815,053	815,187	815,407	815,217	815,079	814,738	814,643	814,179	813,485	812,975	812,181
Santa Barbara County	478,574	479,160	479,622	480,047	480,387	480,596	480,686	480,831	480,580	480,374	480,119	479,977	479,532	479,028	478,571	478,066	477,445
Santa Clara County	2,215,970	2,229,086	2,241,634	2,253,525	2,265,499	2,276,769	2,287,675	2,298,147	2,308,168	2,317,940	2,326,936	2,335,473	2,343,610	2,351,698	2,359,073	2,366,999	2,374,624
Santa Cruz County	289,413	289,719	289,843	290,092	289,955	289,989	289,987	290,001	289,869	289,632	289,435	289,337	289,138	288,993	288,805	288,583	288,441
Shasta County	183,222	183,354	183,482	183,448	183,589	183,580	183,697	183,672	183,877	183,927	183,879	183,964	184,110	184,219	184,253	184,284	184,392
Sierra County	2,795	2,789	2,757	2,734	2,721	2,721	2,703	2,673	2,652	2,630	2,617	2,605	2,591	2,546	2,531	2,526	2,521
Siskiyou County	41,748	41,616	41,434	41,256	41,053	40,883	40,742	40,605	40,419	40,273	40,138	40,000	39,874	39,776	39,687	39,574	39,475
Solano County	505,223	507,858	510,412	512,890	515,279	517,554	519,729	521,832	523,586	525,545	527,548	529,122	530,874	532,443	533,818	535,159	536,840
Sonoma County	532,707	533,223	533,600	533,611	533,614	533,609	533,506	533,191	532,491	531,860	531,131	530,167	529,338	528,381	527,320	526,281	525,298
Stanislaus County	638,830	641,997	645,069	647,913	650,699	653,425	655,915	658,448	660,609	662,609							

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Geography	2055	2056	2057	2058	2059	2060
California	44,176,739	44,189,861	44,200,258	44,210,827	44,220,894	44,228,057
Alameda County	1,948,730	1,950,924	1,953,275	1,955,445	1,957,505	1,959,165
Alpine County	1,020	1,005	1,009	1,001	1,005	1,006
Amador County	39,281	39,321	39,331	39,375	39,430	39,465
Butte County	255,389	255,855	256,490	257,142	257,676	258,144
Calaveras County	43,874	43,866	43,911	43,986	44,055	44,106
Colusa County	24,604	24,623	24,587	24,642	24,669	24,652
Contra Costa County	1,347,877	1,348,754	1,349,282	1,349,965	1,350,855	1,351,284
Del Norte County	25,747	25,756	25,751	25,717	25,696	25,720
El Dorado County	217,995	218,636	219,375	220,359	221,264	222,219
Fresno County	1,249,858	1,254,524	1,258,943	1,263,380	1,267,826	1,272,559
Glenn County	30,801	30,788	30,767	30,738	30,729	30,708
Humboldt County	124,054	123,640	123,223	122,782	122,388	121,972
Imperial County	240,918	241,927	243,001	244,097	245,165	246,235
Inyo County	16,112	16,029	15,915	15,818	15,745	15,653
Kern County	1,256,599	1,264,112	1,271,932	1,279,764	1,287,653	1,295,502
Kings County	189,652	190,310	190,953	191,628	192,377	192,955
Lake County	66,737	66,832	67,015	67,161	67,356	67,561
Lassen County	24,818	24,639	24,503	24,336	24,228	24,082
Los Angeles County	9,891,603	9,853,666	9,815,615	9,777,222	9,738,056	9,697,634
Madera County	220,790	222,320	223,841	225,409	226,949	228,393
Marin County	237,458	236,136	234,848	233,633	232,494	231,338
Mariposa County	17,060	17,043	17,054	17,067	17,055	17,073
Mendocino County	84,360	84,084	83,879	83,670	83,489	83,305
Merced County	384,691	386,992	389,386	391,919	394,442	396,956
Modoc County	7,803	7,768	7,750	7,640	7,607	7,587
Mono County	12,871	12,799	12,693	12,593	12,494	12,422
Monterey County	479,785	479,357	478,753	478,221	477,532	476,734
Napa County	144,968	144,793	144,596	144,499	144,388	144,261
Nevada County	104,905	105,287	105,633	106,072	106,481	106,944
Orange County	3,222,492	3,211,606	3,200,824	3,189,546	3,177,947	3,166,309
Placer County	512,040	514,052	516,182	518,373	520,406	522,567
Plumas County	15,496	15,440	15,394	15,391	15,338	15,277
Riverside County	3,099,770	3,106,499	3,112,694	3,118,580	3,124,163	3,129,833
Sacramento County	1,941,201	1,948,824	1,956,563	1,964,086	1,971,779	1,979,204
San Benito County	74,607	74,834	75,016	75,188	75,386	75,620
San Bernardino County	2,750,180	2,763,794	2,776,792	2,790,195	2,804,533	2,818,707
San Diego County	3,587,294	3,587,311	3,586,580	3,585,551	3,584,342	3,583,085
San Francisco County	1,022,329	1,025,711	1,029,101	1,032,452	1,036,017	1,039,403
San Joaquin County	984,240	986,758	989,186	991,590	993,935	996,241
San Luis Obispo County	268,911	267,839	266,806	265,804	264,700	263,650
San Mateo County	811,379	810,294	809,245	807,907	806,789	805,479
Santa Barbara County	476,750	476,155	475,334	474,624	473,866	473,067
Santa Clara County	2,378,827	2,385,097	2,390,867	2,396,532	2,402,449	2,408,169
Santa Cruz County	288,190	288,070	287,929	287,758	287,641	287,606
Shasta County	184,511	184,711	184,783	184,900	185,098	185,208
Sierra County	2,491	2,466	2,450	2,444	2,434	2,456
Siskiyou County	39,471	39,416	39,399	39,402	39,332	39,395
Solano County	538,355	539,770	541,016	542,431	543,830	545,126
Sonoma County	524,423	523,335	522,357	521,418	520,447	519,518
Stanislaus County	675,118	676,166	677,117	678,265	679,175	680,311
Sutter County	118,068	118,390	118,839	119,306	119,650	120,143
Tehama County	68,039	68,133	68,248	68,401	68,550	68,705
Trinity County	12,286	12,287	12,311	12,354	12,427	12,470
Tulare County	584,163	585,773	587,174	588,536	590,094	591,539
Tuolumne County	48,982	48,957	48,883	48,914	48,899	48,911
Ventura County	861,671	859,085	856,468	854,142	851,714	849,091
Yolo County	306,651	308,801	310,810	312,810	314,739	316,740
Yuba County	88,444	88,501	88,579	88,646	88,605	88,592