



APPENDIX C

Source Apportionment and Community Inventories

South Central Fresno

San Joaquin Valley Air Pollution Control District

August 14, 2019

APPENDIX C

SOUTH CENTRAL FRESNO SOURCE ATTRIBUTION

STATIONARY SOURCE EMISSIONS INVENTORY

A community emissions inventory is the compilation of criteria pollutant and air toxics emissions data from air pollution sources that are within the community. The stationary source community emissions inventory includes emissions of volatile organic compounds/reactive organic gases (VOC/ROG), oxides of nitrogen (NO_x), particulate matter of 2.5 microns (PM_{2.5}), and toxic air contaminants (e.g. diesel PM).

The District has longstanding experience working with regulated facilities and collecting emissions inventory data on an annual basis from these facilities. The District's current criteria emissions inventory reporting processes results an annual assessment of emissions from permitted facilities in the Valley. The inventory collection process begins early in the calendar year by requesting emissions-related information from stationary sources of pollution for the prior calendar year, using streamlined processes and forms developed over years of experience working with industry. The District then verifies or calculates emissions based on the inventory data received by the regulated facilities in the Valley.

Methodology

The emissions inventory represents actual emissions from stationary sources. The actual emissions are typically based one of the following general quantification methods:

$$\text{Emissions (ton-pollutant/yr)} = \text{Process Rate (ton-throughput/yr)} \\ \times \text{Emission Factor (ton-pollutant/ton-throughput)}$$

$$\text{Emissions (ton-pollutant/yr)} = \text{Fuel Use (gal combusted/yr)} \\ \times \text{Emission Factor (ton-pollutant/gal combusted)}$$

$$\text{Emissions (ton-pollutant/yr)} = \text{Fuel Use (SCF combusted/yr)} \\ \times \text{Emission Factor (SCF combusted)}$$

The District relies on the regulated facility owners and operators to submit accurate process rate and/or fuel use data, and identify the approved emission factors as well identify necessary updates to those emission factors. Emission factors are established based on the best available information, and according to the following overarching data quality hierarchy:

1. Continuous Emissions Monitoring (CEM) on the equipment
2. Periodic source test on the equipment
3. Manufacturer's guarantee on the equipment
4. Continuous measurement for similarly configured emission sources
5. Source testing data for similar emission sources

6. AP-42 or other state-approved industry derived emission factors.
7. Permitted emission limits and emission factors established during permitting actions and listed on the permit.

Stationary Source Facility-Level Emissions Inventories

Based on the emissions inventory gathering process described above, the table below summarizes the emissions inventory for each District permitted facility in the South Central Community for year 2017.

Table Notes:

- The facilities listed below are identified in alphabetical order.
- Not all facilities emit all pollutants
- Facilities first operating in 2017 have no reported inventory for 2017
- Values have been rounded to two decimal places

Table 1: Year 2017 Emissions Inventory for District Permitted Facilities

Region	ID	Facility Name	NOX (tpy)	VOC (tpy)	PM2.5 (tpy)
C	7389	1060 FULTON MALL LLC	0.01	0.00	0.00
C	3170	21ST DIST. AGRICULTURAL ASSOC.	0.00	0.01	0.00
C	2892	2925 S MAPLE PARTNERS LLC	0.01	0.00	0.00
C	7421	5TH APPELLATE COURT OF CALIFORNIA	0.07	0.00	0.00
C	46	ABBY ARCO	0.00	0.45	0.00
C	1239	AFFINITY TRUCK CENTER	0.00	0.11	0.01
C	8861	AGRICULTURAL MANUFACTURING	0.00	0.03	0.00
C	7365	AHERN RENTALS INC	0.00	0.00	0.00
C	9237	AMAZON.COM SERVICES INC -FAT1			
C	1675	AMERICAN CARRIER EQUIP TRAILER SALES LLC	0.00	0.62	0.17
C	1547	AMERICAN MEDICAL SERVICES	0.00	0.00	0.00
C	2699	AMERICAN PAVING CO	0.00	0.00	0.00
C	2108	AMERIPRIDE UNIFORM SERVICES	0.77	0.14	0.18
C	6990	AMROS WHOLESALERS (KAMAL DAUD SUBOH)	0.00	0.02	0.00
C	7441	AMWARE PALLET SERVICES, LLC	0.00	0.23	0.05
C	8354	ANDERSON WOODWORKING	0.00	0.14	0.64
C	859	ANGELICA	1.01	0.08	0.48
C	4073	AP GILL INC. DBA ZOO LIQUOR & GAS	0.00	0.14	0.00
C	61	ARROW ELECTRIC	0.11	0.08	0.01
C	63	ART'S AUTO BODY & PAINT	0.00	0.12	0.02
C	8594	ASR ENGINEERING INC			
C	4048	B P PRECISION	0.00	0.00	0.00
C	3271	BASQUE FRENCH BAKERY			
C	7994	BEAL DEVELOPMENT LLC-CHEVRON FOOD MART	0.00	0.47	0.00
C	119	BETTS COMPANY	0.90	2.11	0.17
C	9005	BIMBO BAKERIES USA			
C	8287	BRANDT CONSOLIDATED, INC	0.00	0.00	0.17
C	3951	BRANDT CONSOLIDATED, INC.	0.00	0.15	0.01
C	7850	BRIGHT PATH LIGHTING INC			
C	38	BUNNELL & ALMANN'S PETROLEUM INC	0.00	0.23	0.00
C	3715	BUREAU OF RECLAMATION	0.02	0.00	0.00
C	4107	BURGER KING #12875/ I DOUBLE ON NINE INC	0.04	0.01	0.00
C	1850	C & C AUTOBODY	0.00	0.09	0.01
C	50	C&B ARCO DBA H&R ENTERPRISES	0.00	0.89	0.00
C	1186	CALAVERAS MATERIALS INC	0.00	0.00	0.10
C	2696	CALAVERAS MATERIALS INC	1.44	0.33	0.67
C	2323	CALCO GEN LLC	1.31	0.13	0.54
C	1247	CALIBER COLLISION CENTER	0.00	0.38	0.11
C	8267	CALIFORNIA BEDROOM INC	0.00	0.00	0.00

C	402	CALIFORNIA DAIRIES, INC.	4.37	5.68	2.62
C	7674	CALIFORNIA DEPT OF TRANSPORTATION	0.00	0.12	0.00
C	9034	CALIFORNIA HIGHWAY PATROL			
C	189	CALIFORNIA HIGHWAY PATROL #435	0.00	0.07	0.00
C	1917	CALIFORNIA-FRESNO OIL CO	0.00	0.40	0.00
C	2368	CALIFORNIA-FRESNO OIL CO	0.00	0.75	0.00
C	2880	CARDLOCK FUELS SYSTEM INC	0.00	0.10	0.00
C	4121	CARL'S JR #7545	0.07	0.01	0.00
C	4114	CARL'S JR.	0.04	0.01	0.00
C	4116	CARL'S JR.	0.05	0.01	0.00
C	8490	CARO NUT COMPANY, INC			
C	805	CASTLE B INC DBA PARKSIDE CHEVRON	0.00	0.48	0.00
C	4141	CAVALIER FOOD	0.00	0.49	0.00
C	5979	CEDAR AVE RECYCLING AND TRANSFER STATION	0.84	0.36	0.82
C	4339	CEMEX - SOUTH FRESNO	0.00	0.00	0.65
C	7703	CENTRAL CALIFORNIA SPCA	0.00	0.00	0.00
C	694	CENTRAL FOOD MART	0.00	0.37	0.00
C	253	CENTRAL VALLEY TRAILER	0.00	0.04	0.00
C	2313	CIRCLE D FOOD & LIQUOR	0.00	0.10	0.00
C	2325	CIRCLE K STORES INC	0.00	0.28	0.00
C	331	CITY OF FRESNO	0.04	0.26	0.00
C	3615	CITY OF FRESNO	0.01	0.00	0.00
C	4020	CITY OF FRESNO	0.06	0.00	0.00
C	6969	CITY OF FRESNO	0.05	0.00	0.00
C	7368	CITY OF FRESNO	0.00	0.00	0.00
C	7875	CITY OF FRESNO	0.00	0.00	0.00
C	8194	CITY OF FRESNO - WATER DIVISION			
C	8195	CITY OF FRESNO - WATER DIVISION			
C	8918	CITY OF FRESNO - WATER DIVISION			
C	3852	CITY OF FRESNO (SOLID WASTE MGT DIV)	0.02	0.00	0.00
C	7673	CITY OF FRESNO FIRE DEPARTMENT	0.00	0.00	0.00
C	2477	CITY OF FRESNO FLT MGT/CEDAR	0.06	0.04	0.07
C	2079	CITY OF FRESNO WATER DIVISION	0.00	0.00	0.00
C	3203	CITY OF FRESNO WATER DIVISION	0.00	0.00	0.00
C	3257	CITY OF FRESNO WATER DIVISION	0.03	0.00	0.00
C	3261	CITY OF FRESNO WATER DIVISION	0.03	0.00	0.00
C	3269	CITY OF FRESNO WATER DIVISION	0.03	0.00	0.00
C	3316	CITY OF FRESNO WATER DIVISION	0.07	0.00	0.00
C	3319	CITY OF FRESNO WATER DIVISION	0.07	0.00	0.00
C	7	CITY OF FRESNO, CITY HALL	0.00	0.00	0.00
C	9208	CITY OF FRESNO, PARKING DIVISION			
C	3885	CITY OF FRESNO, POLICE DEPT	0.02	0.00	0.00
C	3884	CITY OF FRESNO, TRAFFIC ENGINEERING	0.01	0.00	0.00

C	9158	CLUB ONE CASINO INC			
C	4214	COAST TO COAST PETROLEUM	0.00	0.62	0.00
C	2862	COLONIAL VAN & STORAGE	0.00	0.00	0.00
C	3296	COMCAST CABLE COMMUNICATIONS INC	0.01	0.00	0.00
C	5600	CONCEPT COATING	0.02	0.00	0.02
C	2256	CONCEPT VEHICLE TECHNOLOGY INC	0.00	0.01	0.00
C	3903	COUNTY OF FRESNO	0.23	0.01	0.00
C	3920	COUNTY OF FRESNO	0.07	0.18	0.00
C	1333	COUNTY OF FRESNO FACILITY SERVICES	0.14	0.03	0.05
C	1270	CROP PRODUCTION SERVICES INC	0.00	0.00	0.03
C	1271	CROP PRODUCTION SERVICES INC	0.00	0.07	0.00
C	8340	CROWN INDUSTRIES DBA CROWN SHORTLOAD CON	0.00	0.00	0.05
C	9339	CROWN LIFT TRUCKS - FRESNO BRANCH			
C	8744	CUSTOM AG FORMULATORS, INC	0.00	0.00	0.03
C	406	DARLING INGREDIENTS INC	5.23	0.30	1.09
C	2491	DELRAY TIRE AND RETREADING INC	0.00	0.00	0.04
C	9037	DEPARTMENT OF HOMELAND SECURITY DETENTIO			
C	432	DONAGHY SALES	0.00	0.06	0.00
C	3130	DUMONT PRINTING INC	0.00	0.68	0.00
C	448	EAGLE BUILDING MATERIALS	0.00	0.00	0.02
C	591	EAST BAY CLARK LIFT DBA GRAY LIFT	0.00	0.08	0.01
C	451	ECONOMY FORMS CORPORATION	0.00	1.50	0.00
C	453	ELECTRIC MOTOR SHOP INC.	0.02	0.00	0.02
C	7719	ELECTRONICS RECYCLERS INTERNATIONAL INC	0.00	0.00	0.00
C	3944	ELI LILLY AND COMPANY	0.04	0.00	0.00
C	454	ELLIOT MANUFACTURING CO.	0.00	0.00	0.00
C	3923	E-S AUTO REPAIR & AUTO BODY			
C	460	EVANS REBUILT PARTS			
C	3733	EVERGREEN CREMATION SERVICE OF CALIFORNI	0.02	0.00	0.00
C	9224	EVOLUTION AUTOBODY REPAIR			
C	473	E-Z HAUL READY MIX	0.00	0.00	0.12
C	476	FAENCAL TARTARIC PRODUCTS INC	0.00	0.00	0.00
C	947	FAMILY EXPRESS FOOD & LIQUOR	0.00	0.19	0.00
C	987	FAMILY EXPRESS FOOD & LIQUOR #2	0.00	0.23	0.00
C	8043	FAMILY EXPRESS FOOD AND DELI	0.00	0.23	0.00
C	1395	FAST N ESY #21	0.00	0.14	0.00
C	8894	FEDEX GROUND			
C	89	FIFTH WHEEL TRUCK STOP INC.	0.00	0.01	0.00
C	8904	FINE LINE CUSTOMS			
C	9279	FIRST STUDENT INC			
C	9198	FIVE STAR TRAILERS INC			
C	2651	FMC CORPORATION	0.00	0.00	0.00

C	8327	FOOD MAXX #456	0.00	0.00	0.00
C	507	FOSTER FARMS	0.37	0.15	0.43
C	1406	FOSTER FARMS, BELGRAVIA PLANT	0.45	0.17	0.96
C	515	FRANCIS CLASSIC CARS	0.00	0.40	0.20
C	517	FRANK RUIZ AVIONICS	0.00	0.09	0.00
C	2104	FREDERICK ANTIQUE RESTORATIONS	0.00	0.01	0.00
C	1117	FRESNO 99 INVESTMENTS LLC	0.00	1.17	0.00
C	528	FRESNO AREA EXPRESS	0.06	0.05	0.00
C	521	FRESNO BEE	0.01	2.29	0.00
C	2797	FRESNO CENTRAL MARKET	0.00	0.05	0.00
C	1988	FRESNO CITY COLLEGE	0.00	0.51	0.11
C	540	FRESNO COMMUNITY HOSPITAL	1.89	0.04	0.06
C	1934	FRESNO CONVENTION & ENTERTAINMT CTR, SMG	0.00	0.00	0.00
C	1923	FRESNO COUNTY	0.00	0.10	0.00
C	1614	FRESNO COUNTY BUILD MAINT DIV	0.01	0.00	0.00
C	1622	FRESNO COUNTY BUILD MAINT DIV	0.02	0.00	0.00
C	1624	FRESNO COUNTY BUILD MAINT DIV	0.02	0.01	0.01
C	1625	FRESNO COUNTY BUILD MAINT DIV	0.18	0.01	0.01
C	1627	FRESNO COUNTY BUILD MAINT DIV	0.02	0.00	0.00
C	1629	FRESNO COUNTY BUILD MAINT DIV	0.76	0.22	0.41
C	4011	FRESNO COUNTY BUILDING MAINTENANCE	0.00	0.00	0.00
C	2021	FRESNO COUNTY DEPT AGRICULTURE	0.00	0.00	0.00
C	383	FRESNO COUNTY FLEET SERVICES	0.00	0.04	0.00
C	671	FRESNO COUNTY FLEET SERVICES	0.06	0.10	0.07
C	8947	FRESNO COUNTY SUPERINTENDENT OF SCHOOLS	0.00	0.00	0.00
C	2066	FRESNO IRRIGATION DISTRICT	0.00	0.04	0.00
C	3971	FRESNO METROPOLITAN FLOOD CONTROL DIST	0.00	0.00	0.00
C	9222	FRESNO MOSQUITO & VCD	0.00	0.02	0.00
C	3537	FRESNO PET CEMETERY	0.17	0.02	0.05
C	3084	FRESNO TRACTOR INC	0.00	0.01	0.00
C	1623	FRESNO UNIFIED SCHOOL DISTRICT	0.20	0.01	0.01
C	3088	FRESNO UNIFIED SCHOOL DISTRICT	0.03	0.00	0.00
C	3890	FRESNO UNIFIED SCHOOL DISTRICT	0.00	0.00	0.00
C	4167	FRESNO UNIFIED SCHOOL DISTRICT	0.01	0.00	0.00
C	7238	FRESNO UNIFIED SCHOOL DISTRICT	0.00	0.00	0.00
C	525	FRESNO UNLIMITED	0.00	0.00	0.00
C	3919	GENERAL COATINGS, INC	0.00	0.00	0.01
C	3168	GEORGIA-PACIFIC CORRUGATED LLC	0.02	0.19	0.02
C	3619	GET-N-GO #4	0.06	0.09	0.07
C	4245	GLAXO SMITH KLINE CONSUMER BRANDS	0.01	0.00	0.00
C	2408	GLEIM-CROWN PUMP INC	0.04	0.02	0.00

C	1541	GOLDEN BOY MARKET	0.00	0.21	0.00
C	7218	GOLDEN STATE CREMATORY INC	0.07	0.00	0.04
C	3812	GOLDEN WORK FINISH	0.00	0.00	0.00
C	3743	GOULDS PUMPS	0.00	0.07	0.01
C	3224	GREENWAY AUTOBODY	0.05	0.04	0.02
C	845	GRUMA CORPORATION	3.87	0.22	0.28
C	4228	GSA PACIFIC RIM REGION	0.10	0.00	0.00
C	248	GUSMER ENTERPRISES INC	0.90	0.05	1.29
C	613	HANDI STOP MARKET	0.00	0.08	0.00
C	2312	HARMON STAR MART #2 (AVTAR SINGH)	0.06	0.26	0.07
C	2090	HARRIS MANUFACTURING, INC.			
C	708	HEADWATERS RESOURCES	0.00	0.00	0.01
C	7445	HEALTH COMP	0.03	0.00	0.00
C	8827	HEALTHCARE CENTER OF FRESNO			
C	7174	HERTZ EQUIPMENT RENTAL CORP	0.00	0.00	0.00
C	7642	HI FRESNO HOSPITALITY LLC, DBA RADISSON	0.00	0.00	0.00
C	2643	HOWARD AUTO BODY	0.00	0.05	0.02
C	1891	HYDRATECH LLC	0.01	0.22	0.11
C	8747	IFCO SYSTEMS NA			
C	3623	INLAND STAR WAREHOUSE	0.04	0.01	0.00
C	8805	INTER STATE OIL CO			
C	8447	IPT, INC.	0.00	5.20	0.00
C	7222	IPULL-U-PULL AUTO PARTS	0.00	0.00	0.00
C	1561	J D CLASSICS	0.00	0.01	0.00
C	4137	J M EQUIPMENT CO INC	0.00	0.05	0.01
C	567	J&B AUTO BODY REPAIR	0.00	0.05	0.02
C	3293	JACK'S GAS	0.00	0.34	0.00
C	3618	JACK'S TIRE & OIL OF CALIFORNIA INC	0.00	0.65	0.27
C	2708	JAIN IRRIGATION INC	0.00	0.06	0.00
C	3722	JEFF GONCHOROFF			
C	1053	JENSEN SHELL	0.00	0.53	0.00
C	3483	JKR VENTURES INC DBA R & S MINI MART	0.00	0.33	0.00
C	692	JOHN'S BODY SHOP	0.00	0.02	0.00
C	1626	JUDICIAL COUNCIL OF CALIFORNIA - AOC	0.02	0.00	0.00
C	630	K AUTO BODY	0.00	0.10	0.00
C	711	KASCO FAB, INC			
C	8436	KDR PET TREATS, LLC			
C	2003	KEARNEYS' BRASS WORKS INC	0.00	0.00	0.00
C	2004	KEARNEYS' MACHINE WORKS	0.00	0.00	0.00
C	712	KEARNEYS' MANUFACTURING	0.00	0.03	0.01
C	2457	KEISER SPORTS HEALTH EQUIPMENT	0.21	0.01	0.12
C	2873	KFSN-TV CAPITAL CITIES/ABC INC	0.00	0.00	0.00
C	2494	KING INDUSTRIAL HARD CHROME			

C	234	KRAFT HEINZ FOODS COMPANY	1.25	0.61	1.78
C	375	KRAFT HEINZ FOODS COMPANY (CORNNUTS)	0.41	0.08	0.38
C	3216	KROEKER, INC.	0.00	0.00	0.00
C	92	KWIK SERV	0.00	0.21	0.00
C	3252	LA TAPATIA TORTILLERIA INC	2.45	0.13	0.25
C	3706	LEVEL 3 COMMUNICATIONS LLC	0.13	0.01	0.01
C	782	LIFTCO CAPS SANDBLASTING	0.15	0.01	0.11
C	8589	LIGHTNING SOURCE INC.	0.00	0.00	0.00
C	788	LOS DOS AMIGOS AUTOBODY			
C	2404	LOTUS COMMUNICATIONS, CORP	0.02	0.00	0.00
C	7348	LYONS MAGNUS	0.46	0.26	0.47
C	8829	LYONS MAGNUS	0.00	0.00	0.00
C	4198	M. L. STREET PROPERTIES, A JOINT VENTURE	0.02	0.00	0.00
C	2254	MALAGA COUNTY WATER DISTRICT	0.00	0.00	0.00
C	2875	MALAGA COUNTY WATER DISTRICT	0.00	0.00	0.00
C	2876	MALAGA COUNTY WATER DISTRICT	0.06	0.00	0.00
C	8403	MALAGA COUNTY WATER DISTRICT	0.00	0.00	0.00
C	4305	MALAGA POWER, LLC	0.90	0.05	0.35
C	6327	MANDO'S COLLISION & PAINT	0.00	0.07	0.00
C	1868	MANHEIM CENTRAL CA/TRA-CENTRAL CA	0.02	0.01	0.00
C	1544	MARTIN GARCIA (GARNOL)	0.00	0.00	0.00
C	817	MB TECHNOLOGY	0.00	2.29	1.38
C	3008	MCI	0.04	0.00	0.00
C	3725	MEMLEY AVIATION	0.00	0.20	0.00
C	992	MGA LIQUOR 3	0.00	0.14	0.00
C	831	MICHELSSEN PACKAGING CO., OF CA	0.00	0.00	0.27
C	838	MIKE'S AUTOBODY			
C	2197	MILLER MILLING COMPANY	0.00	0.00	0.86
C	844	MISSION UNIFORM & LINEN SERVICE	0.05	0.04	1.26
C	4314	MORAN'S AUTO FRAME & BODY REPAIR	0.00	0.03	0.00
C	9215	NEW CINGULAR WIRELESS, PCS DBA AT&T			
C	3855	NEW ENGLAND SHEET METAL & MECHANICAL CO	0.01	0.00	0.49
C	626	NEW WORLD PASTA	0.00	0.00	0.04
C	8850	NEWSTAR WAREHOUSE & PACKAGING			
C	8630	NICHOLAS J. BUSICK	0.05	0.00	0.00
C	1141	NIRMAL SINGH SHOP N QUICK INC	0.00	0.22	0.00
C	2425	ORANGE AVENUE DISPOSAL	0.00	0.00	0.00
C	1067	P C AUTO BODY	0.00	0.02	0.01
C	898	PACIFIC BELL TELEPHONE CO (DBA AT&T CA)	0.32	0.02	0.01
C	1669	PACIFIC BELL TELEPHONE CO (DBA AT&T CA)	0.11	0.01	0.00
C	906	PACIFIC CHOICE BRANDS	0.38	0.18	0.26
C	7089	PACIFIC GAS & ELECTRIC (BLDG B)	0.01	0.00	0.00

C	899	PACIFIC GAS & ELECTRIC CO	0.00	0.01	0.00
C	930	PACIFIC GAS & ELECTRIC CO	0.02	0.00	0.00
C	933	PACIFIC GAS & ELECTRIC CO	0.02	0.00	0.00
C	2886	PACIFIC GAS & ELECTRIC CO	0.07	0.00	0.00
C	5884	PACIFIC GAS & ELECTRIC COMPANY	0.01	0.00	0.00
C	9288	PACIFIC GAS AND ELECTRIC COMPANY			
C	9188	PACIFIC GRAIN & FOODS LLC			
C	8664	PAINT INNOVATIONS			
C	4351	PAPER, PULP & FILM	0.00	0.00	0.00
C	8523	PATRICK W GEIGER			
C	916	PATTON SHEET METAL	0.03	0.00	0.00
C	2063	PAUL EVERT'S RV COUNTRY, INC.	0.00	0.03	0.01
C	9209	PDM STEEL			
C	4371	PEACOCK AUTO BODY			
C	923	PENNY WISE	0.06	0.40	0.07
C	2252	PENNY-NEWMAN GRAIN COMPANY	0.32	0.25	0.67
C	1184	PIC 'N' GO #2	0.00	0.23	0.00
C	8259	PITMAN FAMILY FARMS			
C	8256	PLAZA CONCRETE INC.	0.00	0.00	0.01
C	3162	PRAXAIR DISTRIBUTION INC.	0.00	3.58	0.00
C	3118	PRESTIGE PRINTING	0.00	0.30	0.00
C	3058	PRODUCERS DAIRY FOODS, INC	0.30	0.13	0.17
C	980	PRUDENTIAL OVERALL SUPPLY	0.34	0.03	1.36
C	8984	QUALITY CONCRETE			
C	693	QUICK FOOD STORE	0.00	0.09	0.00
C	1139	QUICK PICK & DELI	0.00	0.10	0.00
C	4145	QUIKSERVE ENTERPRISES BURGER KING #3160	0.07	0.05	0.01
C	4204	QUINN RENTAL SERVICES	0.00	0.00	0.00
C	3327	QWEST COMMUNICATIONS CO LLC/CENTURYLINK	0.04	0.00	0.00
C	3273	R & J AUTO BODY SHOP	0.00	0.00	0.00
C	7403	R & L CARRIERS INC	0.02	0.01	0.00
C	4356	R & R CUSTOMS			
C	1029	R M KING CO	0.00	0.42	0.00
C	1045	R P M PLANING MILL	0.00	0.00	0.34
C	2261	RANI FOOD & LIQUOR INC.	0.00	0.25	0.00
C	1873	RANSOME MANUFACTURING	0.00	0.92	0.78
C	1003	RED TRIANGLE	0.00	0.58	0.00
C	551	RENEW AUTO BODY & PAINT	0.00	0.03	0.01
C	1820	RIO BRAVO FRESNO	88.66	0.05	22.49
C	1031	ROBERT V. JENSEN, INC	0.00	0.32	0.00
C	1049	RUTTER ARMEY			
C	1057	SAF-T-CAB	0.26	0.02	0.29

C	1061	SAL'S AUTOBODY SHOP	0.00	0.02	0.04
C	9230	SALVATION ARMY DBA SILVERCREST RET.	0.03	0.00	0.00
C	7318	SAN JOAQUIN STAIRS INC	0.00	0.00	0.01
C	1074	SANGER BOATS, INC.	0.00	5.75	0.18
C	1080	SCELZI ENTERPRISES INC	0.02	13.85	0.00
C	1081	SCHMIDTS AUTOBODY SHOP	0.00	0.14	0.07
C	1077	SFPP, L.P.	15.78	65.53	0.70
C	393	SILVAS OIL COMPANY, INC.	0.00	0.46	0.00
C	4068	SINCLAIR SYSTEMS INTERNATIONAL, LLC	0.00	0.01	0.00
C	7865	SPECIALTY SALES LLC	0.01	0.01	0.00
C	4018	SPRINT/UNITED MANAGEMENT COMPANY	0.03	0.00	0.00
C	3891	STATE OF CA, JUDICIAL COUNCIL OF CA, ADM	0.02	0.00	0.00
C	8628	STATE OF CALIFORNIA	0.00	0.00	0.00
C	8186	STATE OF CALIFORNIA DEPT OF TRANSPORTATI	0.03	0.00	0.00
C	7130	STORAGE SYSTEMS, INC	0.00	0.00	0.03
C	903	STRATAS FOODS, LLC	0.39	0.18	0.35
C	1193	STURDY PRODUCTS			
C	2471	STURDY SAFE			
C	1968	SUNNYLAND BULGUR WHEAT, INC.	0.13	0.06	0.11
C	1201	SUPER 1 FOOD STORE	0.00	0.10	0.00
C	733	SUPER-7	0.00	0.11	0.00
C	8423	SUPERIOR AUTO ENTERPRISES INC	0.00	0.02	0.00
C	2783	TAYLOR COMMUNICATIONS-FRESNO	0.00	0.42	0.00
C	240	TESORO REFINING & MARKETING CO. LLC	0.00	0.26	0.00
C	6189	THE BURLINGTON NORTHERN SANTA FE RAILWAY	0.01	0.00	0.00
C	4367	THE CABINETMAKER	0.00	0.00	0.00
C	7992	THE PAPE GROUP-DAN RADONSKI	0.01	0.31	0.05
C	1241	TINKLER MISSION CHAPEL	0.02	0.01	0.03
C	2241	TJ FOOD N LIQUOR (ERIC S. TANG)	0.00	0.28	0.00
C	4217	TONY'S 1 STOP SHOP	0.00	0.30	0.00
C	1245	TOWER GAS & MINI MART	0.00	0.13	0.00
C	177	TRIPLE A RADIATOR & AUTO	0.00	0.00	0.00
C	3793	TULARE ARCO (SAI ROJA INC)	0.00	2.33	0.00
C	1568	UNITED AUTO BODY	0.00	0.06	0.01
C	1268	UNITED PARCEL SERVICE	0.00	0.08	0.00
C	7175	UNITED SECURITY BANK	0.02	0.00	0.00
C	7384	UNITED STATES COLD STORAGE OF CALIFORNIA	0.00	0.00	0.00
C	1337	UNIVAR USA INC	0.00	0.07	0.00
C	7753	UNIVAR USA INC	0.00	0.04	0.00
C	8478	UPTOWN INVESTMENTS LP	0.02	0.00	0.00
C	4223	USGP FRESNO IRS LLC C/O MANCO ABBOTT INC	0.01	0.00	0.00
C	1317	UTILITY TRAILER SALES COMPANY	0.12	0.24	0.04

C	1326	VALLEY FIG GROWERS	0.10	0.04	0.04
C	84	VALLEY GAS AND MINI MART (AJITPAL SINGH)	0.00	0.15	0.00
C	7259	VALLEY IRON INC	0.00	0.00	0.03
C	3087	VALLEY LAVOSH BAKING COMPANY	0.16	0.01	0.02
C	9123	VALLEY PACIFIC PETROLEUM SERVICES			
C	7147	VALLEY PUBLIC TELEVISION INC	0.00	0.00	0.00
C	1322	VALLEY WRECKER SALES	0.00	0.28	0.05
C	8965	VEIR CORP	0.00	0.00	0.00
C	367	VERIZON WIRELESS - CALWA	0.01	0.00	0.00
C	8452	VERIZON WIRELESS- JENSEN AVENUE	0.00	0.00	0.00
C	8745	VERIZON WIRELESS:EFFIE	0.00	0.00	0.00
C	8051	VERIZON WIRELESS-1ST & BELMONT	0.00	0.00	0.00
C	8176	VETERANS HOME OF CALIFORNIA, FRESNO	0.19	0.00	0.01
C	578	VISA PETROLEUM INC	0.00	0.15	0.00
C	948	VITRO FLAT GLASS LLC	384.95	0.92	16.18
C	2781	WAWONA FROZEN FOODS	0.03	0.02	0.03
C	6926	WCR INCORPORATED	0.00	0.32	0.18
C	8392	WECO SUPPLY			
C	920	WEIR FLOWAY, INC.	0.00	1.21	0.34
C	4161	WESTERN CO-GEN, LLC	0.00	0.00	0.00
C	3589	WESTROCK CONVERTING LLC	0.06	0.18	0.02
C	7165	WESTROCK CP, LLC	0.23	5.17	0.29
C	2675	WHOLESALE EQUIPMENT OF FRESNO	0.00	0.25	0.06
C	1398	WILBUR-ELLIS COMPANY	0.00	0.00	0.04
C	287	WKM ASSOCIATES INC	0.00	0.71	0.00
C	2250	WONG CORPORATION	0.00	0.09	0.00

Forecasting Emissions - Stationary Sources:

For assessing future growth for the years 2024 and 2029, the District used growth and control factors (Fresno/Kern County table) supplied by the Air Resources Board (ARB). The District assigned growth and control factors to each permitted process type in the community using the most appropriate Emissions Inventory Code (EIC). The EIC is determined using the following method:

- a) For each facility located in South Central Fresno and corresponding process, compare the County EIC, Source Classification Code (SCC) and Standard industrial Classification (SIC) from ARB's table (Growth and control factors table) with the EIC, SCC, and SIC from the District database information related to facilities within the selected community.
- b) If the facility and process EIC, SCC, and SIC from ARB's table and District database all match, then the District uses the applicable growth factor.

- c) If the facility and process EIC, SCC, and SIC from ARB's table and District database do NOT ALL match, then identify facilities and corresponding process for which EIC, SIC, and area-wide EIC match.
- d) If the facility and process EIC, SCC, and area-wide EIC from ARB's table and District database match, then the District uses the applicable growth factor.
- e) If the facility and process EIC, SCC, and area-wide EIC from ARB's table and District database do NOT ALL match, then for each corresponding facility, the District is only using the EIC between ARB's table and the District database.
- f) If the EIC between ARB's table and the District database do not match for specific facilities, then the District assumes no growth or change in emission control for the affected facility.

Projected emissions were calculated using the 2017 emissions inventory as the base year to project emissions for 2024 and 2029. The 2017 emissions inventory values were used to project emissions by multiplying these emissions by the ratio of the growth factors and control factors for each process. The emissions are projected for each permitted unit and then totaled to grow the facility emissions. The following equation represents the formula for forecasting emissions in a future year from a specific emissions unit (i.e. equipment type):

$$2024 \text{ NOx (ton/yr)} = 2017 \text{ NOx emissions} \times [(2024 \text{ NOx GF} \div 2017 \text{ NOx GF}) \times (2024 \text{ NOx CF} \div 2017 \text{ NOx CF})]$$

Where,
GF= Growth factor
CF = Control factor

Forecasted Stationary Source Emissions Inventories

Based on the forecasting process described above, Tables 2 and 3 below summarize the emissions inventory for each District permitted facility in the South Central Community for years 2024 and 2029.

Table 2: Year 2024 Projected Emissions Inventory for District Permitted Facilities

Region	ID	Facility Name	NOX (tpy)	VOC (tpy)	PM2.5 (tpy)
C	7389	1060 FULTON MALL LLC	0.01	0.00	0.00
C	3170	21ST DIST. AGRICULTURAL ASSOC.	0.00	0.00	0.00
C	2892	2925 S MAPLE PARTNERS LLC	0.01	0.00	0.00
C	7421	5TH APPELLATE COURT OF CALIFORNIA	0.05	0.00	0.00
C	46	ABBY ARCO	0.00	0.30	0.00
C	1239	AFFINITY TRUCK CENTER	0.00	0.13	0.01
C	8861	AGRICULTURAL MANUFACTURING	0.00	0.03	0.00
C	7365	AHERN RENTALS INC	0.00	0.00	0.00
C	9237	AMAZON.COM SERVICES INC -FAT1			
C	1675	AMERICAN CARRIER EQUIP TRAILER SALES LLC	0.00	0.69	0.19
C	1547	AMERICAN MEDICAL SERVICES	0.00	0.00	0.00
C	2699	AMERICAN PAVING CO	0.00	0.00	0.00
C	2108	AMERIPRIDE UNIFORM SERVICES	0.71	0.15	0.19
C	6990	AMROS WHOLESALERS (KAMAL DAUD SUBOH)	0.00	0.02	0.00
C	7441	AMWARE PALLET SERVICES, LLC	0.00	0.29	0.06
C	8354	ANDERSON WOODWORKING	0.00	0.17	0.73
C	859	ANGELICA	1.07	0.08	0.54
C	4073	AP GILL INC. DBA ZOO LIQUOR & GAS	0.00	0.09	0.00
C	61	ARROW ELECTRIC	0.10	0.09	0.01
C	63	ART'S AUTO BODY & PAINT	0.00	0.14	0.02
C	8594	ASR ENGINEERING INC			
C	4048	B P PRECISION	0.00	0.00	0.00
C	3271	BASQUE FRENCH BAKERY			
C	7994	BEAL DEVELOPMENT LLC-CHEVRON FOOD MART	0.00	0.31	0.00
C	119	BETTS COMPANY	0.78	2.38	0.17
C	9005	BIMBO BAKERIES USA			
C	8287	BRANDT CONSOLIDATED, INC	0.00	0.00	0.20
C	3951	BRANDT CONSOLIDATED, INC.	0.00	0.17	0.01
C	7850	BRIGHT PATH LIGHTING INC			
C	38	BUNNELL & ALMANN'S PETROLEUM INC	0.00	0.16	0.00
C	3715	BUREAU OF RECLAMATION	0.02	0.00	0.00

C	4107	BURGER KING #12875/ I DOUBLE ON NINE INC	0.04	0.01	0.00
C	1850	C & C AUTOBODY	0.00	0.10	0.02
C	50	C&B ARCO DBA H&R ENTERPRISES	0.00	0.59	0.00
C	1186	CALAVERAS MATERIALS INC	0.00	0.00	0.11
C	2696	CALAVERAS MATERIALS INC	1.24	0.35	0.77
C	2323	CALCO GEN LLC	1.23	0.12	0.50
C	1247	CALIBER COLLISION CENTER	0.00	0.42	0.13
C	8267	CALIFORNIA BEDROOM INC	0.00	0.00	0.00
C	402	CALIFORNIA DAIRIES, INC.	3.66	5.51	2.66
C	7674	CALIFORNIA DEPT OF TRANSPORTATION	0.00	0.07	0.00
C	9034	CALIFORNIA HIGHWAY PATROL			
C	189	CALIFORNIA HIGHWAY PATROL #435	0.00	0.05	0.00
C	1917	CALIFORNIA-FRESNO OIL CO	0.00	0.27	0.00
C	2368	CALIFORNIA-FRESNO OIL CO	0.00	0.50	0.00
C	2880	CARDLOCK FUELS SYSTEM INC	0.00	0.07	0.00
C	4121	CARL'S JR #7545	0.08	0.02	0.00
C	4114	CARL'S JR.	0.05	0.01	0.00
C	4116	CARL'S JR.	0.06	0.01	0.00
C	8490	CARO NUT COMPANY, INC			
C	805	CASTLE B INC DBA PARKSIDE CHEVRON	0.00	0.32	0.00
C	4141	CAVALIER FOOD	0.00	0.33	0.00
C	5979	CEDAR AVE RECYCLING AND TRANSFER STATION	0.84	0.36	0.90
C	4339	CEMEX - SOUTH FRESNO	0.00	0.00	0.76
C	7703	CENTRAL CALIFORNIA SPCA	0.00	0.00	0.00
C	694	CENTRAL FOOD MART	0.00	0.24	0.00
C	253	CENTRAL VALLEY TRAILER	0.00	0.05	0.00
C	2313	CIRCLE D FOOD & LIQUOR	0.00	0.07	0.00
C	2325	CIRCLE K STORES INC	0.00	0.19	0.00
C	331	CITY OF FRESNO	0.02	0.17	0.00
C	3615	CITY OF FRESNO	0.01	0.00	0.00
C	4020	CITY OF FRESNO	0.04	0.00	0.00
C	6969	CITY OF FRESNO	0.03	0.00	0.00
C	7368	CITY OF FRESNO	0.00	0.00	0.00
C	7875	CITY OF FRESNO	0.00	0.00	0.00
C	8194	CITY OF FRESNO - WATER DIVISION			
C	8195	CITY OF FRESNO - WATER DIVISION			
C	8918	CITY OF FRESNO - WATER DIVISION			
C	3852	CITY OF FRESNO (SOLID WASTE MGT DIV)	0.01	0.00	0.00
C	7673	CITY OF FRESNO FIRE DEPARTMENT	0.00	0.00	0.00
C	2477	CITY OF FRESNO FLT MGT/CEDAR	0.06	0.03	0.07
C	2079	CITY OF FRESNO WATER DIVISION	0.00	0.00	0.00

C	3203	CITY OF FRESNO WATER DIVISION	0.00	0.00	0.00
C	3257	CITY OF FRESNO WATER DIVISION	0.02	0.00	0.00
C	3261	CITY OF FRESNO WATER DIVISION	0.02	0.00	0.00
C	3269	CITY OF FRESNO WATER DIVISION	0.02	0.00	0.00
C	3316	CITY OF FRESNO WATER DIVISION	0.05	0.00	0.00
C	3319	CITY OF FRESNO WATER DIVISION	0.05	0.00	0.00
C	7	CITY OF FRESNO, CITY HALL	0.00	0.00	0.00
C	9208	CITY OF FRESNO, PARKING DIVISION			
C	3885	CITY OF FRESNO, POLICE DEPT	0.02	0.00	0.00
C	3884	CITY OF FRESNO, TRAFFIC ENGINEERING	0.01	0.00	0.00
C	9158	CLUB ONE CASINO INC			
C	4214	COAST TO COAST PETROLEUM	0.00	0.41	0.00
C	2862	COLONIAL VAN & STORAGE	0.00	0.00	0.00
C	3296	COMCAST CABLE COMMUNICATIONS INC	0.01	0.00	0.00
C	5600	CONCEPT COATING	0.02	0.00	0.03
C	2256	CONCEPT VEHICLE TECHNOLOGY INC	0.00	0.01	0.00
C	3903	COUNTY OF FRESNO	0.15	0.00	0.00
C	3920	COUNTY OF FRESNO	0.06	0.18	0.00
C	1333	COUNTY OF FRESNO FACILITY SERVICES	0.11	0.03	0.05
C	1270	CROP PRODUCTION SERVICES INC	0.00	0.00	0.03
C	1271	CROP PRODUCTION SERVICES INC	0.00	0.08	0.00
C	8340	CROWN INDUSTRIES DBA CROWN SHORTLOAD CON	0.00	0.00	0.05
C	9339	CROWN LIFT TRUCKS - FRESNO BRANCH			
C	8744	CUSTOM AG FORMULATORS, INC	0.00	0.00	0.03
C	406	DARLING INGREDIENTS INC	4.38	0.29	1.06
C	2491	DELRAY TIRE AND RETREADING INC	0.00	0.00	0.05
C	9037	DEPARTMENT OF HOMELAND SECURITY DETENTIO			
C	432	DONAGHY SALES	0.00	0.04	0.00
C	3130	DUMONT PRINTING INC	0.00	0.73	0.00
C	448	EAGLE BUILDING MATERIALS	0.00	0.00	0.03
C	591	EAST BAY CLARK LIFT DBA GRAY LIFT	0.00	0.08	0.01
C	451	ECONOMY FORMS CORPORATION	0.00	1.69	0.00
C	453	ELECTRIC MOTOR SHOP INC.	0.02	0.00	0.02
C	7719	ELECTRONICS RECYCLERS INTERNATIONAL INC	0.00	0.00	0.00
C	3944	ELI LILLY AND COMPANY	0.03	0.00	0.00
C	454	ELLIOT MANUFACTURING CO.	0.00	0.00	0.00
C	3923	E-S AUTO REPAIR & AUTO BODY			
C	460	EVANS REBUILT PARTS			
C	3733	EVERGREEN CREMATION SERVICE OF CALIFORNI	0.02	0.00	0.00

C	9224	EVOLUTION AUTOBODY REPAIR			
C	473	E-Z HAUL READY MIX	0.00	0.00	0.14
C	476	FAENCAL TARTARIC PRODUCTS INC	0.00	0.00	0.00
C	947	FAMILY EXPRESS FOOD & LIQUOR	0.00	0.13	0.00
C	987	FAMILY EXPRESS FOOD & LIQUOR #2	0.00	0.15	0.00
C	8043	FAMILY EXPRESS FOOD AND DELI	0.00	0.15	0.00
C	1395	FAST N ESY #21	0.00	0.10	0.00
C	8894	FEDEX GROUND			
C	89	FIFTH WHEEL TRUCK STOP INC.	0.00	0.01	0.00
C	8904	FINE LINE CUSTOMS			
C	9279	FIRST STUDENT INC			
C	9198	FIVE STAR TRAILERS INC			
C	2651	FMC CORPORATION	0.00	0.00	0.00
C	8327	FOOD MAXX #456	0.00	0.00	0.00
C	507	FOSTER FARMS	0.31	0.14	0.44
C	1406	FOSTER FARMS, BELGRAVIA PLANT	0.38	0.16	1.05
C	515	FRANCIS CLASSIC CARS	0.00	0.44	0.22
C	517	FRANK RUIZ AVIONICS	0.00	0.04	0.00
C	2104	FREDERICK ANTIQUE RESTORATIONS	0.00	0.02	0.00
C	1117	FRESNO 99 INVESTMENTS LLC	0.00	0.78	0.00
C	528	FRESNO AREA EXPRESS	0.05	0.06	0.00
C	521	FRESNO BEE	0.01	2.46	0.00
C	2797	FRESNO CENTRAL MARKET	0.00	0.03	0.00
C	1988	FRESNO CITY COLLEGE	0.00	0.57	0.12
C	540	FRESNO COMMUNITY HOSPITAL	1.28	0.04	0.06
C	1934	FRESNO CONVENTION & ENTERTAINMT CTR, SMG	0.00	0.00	0.00
C	1923	FRESNO COUNTY	0.00	0.07	0.00
C	1614	FRESNO COUNTY BUILD MAINT DIV	0.01	0.00	0.00
C	1622	FRESNO COUNTY BUILD MAINT DIV	0.02	0.00	0.00
C	1624	FRESNO COUNTY BUILD MAINT DIV	0.02	0.00	0.00
C	1625	FRESNO COUNTY BUILD MAINT DIV	0.12	0.01	0.00
C	1627	FRESNO COUNTY BUILD MAINT DIV	0.01	0.00	0.00
C	1629	FRESNO COUNTY BUILD MAINT DIV	0.63	0.23	0.42
C	4011	FRESNO COUNTY BUILDING MAINTENANCE	0.00	0.00	0.00
C	2021	FRESNO COUNTY DEPT AGRICULTURE	0.00	0.00	0.00
C	383	FRESNO COUNTY FLEET SERVICES	0.00	0.03	0.00
C	671	FRESNO COUNTY FLEET SERVICES	0.06	0.06	0.07
C	8947	FRESNO COUNTY SUPERINTENDENT OF SCHOOLS	0.00	0.00	0.00
C	2066	FRESNO IRRIGATION DISTRICT	0.00	0.02	0.00

C	3971	FRESNO METROPOLITAN FLOOD CONTROL DIST	0.00	0.00	0.00
C	9222	FRESNO MOSQUITO & VCD	0.00	0.01	0.00
C	3537	FRESNO PET CEMETERY	0.19	0.02	0.05
C	3084	FRESNO TRACTOR INC	0.00	0.02	0.00
C	1623	FRESNO UNIFIED SCHOOL DISTRICT	0.13	0.01	0.01
C	3088	FRESNO UNIFIED SCHOOL DISTRICT	0.02	0.00	0.00
C	3890	FRESNO UNIFIED SCHOOL DISTRICT	0.00	0.00	0.00
C	4167	FRESNO UNIFIED SCHOOL DISTRICT	0.01	0.00	0.00
C	7238	FRESNO UNIFIED SCHOOL DISTRICT	0.00	0.00	0.00
C	525	FRESNO UNLIMITED	0.00	0.00	0.00
C	3919	GENERAL COATINGS, INC	0.00	0.00	0.01
C	3168	GEORGIA-PACIFIC CORRUGATED LLC	0.02	0.21	0.02
C	3619	GET-N-GO #4	0.06	0.06	0.07
C	4245	GLAXO SMITH KLINE CONSUMER BRANDS	0.01	0.00	0.00
C	2408	GLEIM-CROWN PUMP INC	0.03	0.02	0.00
C	1541	GOLDEN BOY MARKET	0.00	0.14	0.00
C	7218	GOLDEN STATE CREMATORY INC	0.08	0.00	0.04
C	3812	GOLDEN WORK FINISH	0.00	0.00	0.00
C	3743	GOULDS PUMPS	0.00	0.07	0.01
C	3224	GREENWAY AUTOBODY	0.05	0.05	0.03
C	845	GRUMA CORPORATION	3.24	0.21	0.28
C	4228	GSA PACIFIC RIM REGION	0.07	0.00	0.00
C	248	GUSMER ENTERPRISES INC	0.90	0.05	1.47
C	613	HANDI STOP MARKET	0.00	0.05	0.00
C	2312	HARMON STAR MART #2 (AVTAR SINGH)	0.06	0.17	0.07
C	2090	HARRIS MANUFACTURING, INC.			
C	708	HEADWATERS RESOURCES	0.00	0.00	0.01
C	7445	HEALTH COMP	0.03	0.00	0.00
C	8827	HEALTHCARE CENTER OF FRESNO			
C	7174	HERTZ EQUIPMENT RENTAL CORP	0.00	0.00	0.00
C	7642	HI FRESNO HOSPITALITY LLC, DBA RADISSON	0.00	0.00	0.00
C	2643	HOWARD AUTO BODY	0.00	0.06	0.02
C	1891	HYDRATECH LLC	0.01	0.25	0.13
C	8747	IFCO SYSTEMS NA			
C	3623	INLAND STAR WAREHOUSE	0.04	0.00	0.00
C	8805	INTER STATE OIL CO			
C	8447	IPT, INC.	0.00	5.78	0.00
C	7222	IPULL-U-PULL AUTO PARTS	0.00	0.00	0.00
C	1561	J D CLASSICS	0.00	0.01	0.00
C	4137	J M EQUIPMENT CO INC	0.00	0.06	0.01

C	567	J&B AUTO BODY REPAIR	0.00	0.05	0.02
C	3293	JACK'S GAS	0.00	0.22	0.00
C	3618	JACK'S TIRE & OIL OF CALIFORNIA INC	0.00	0.75	0.31
C	2708	JAIN IRRIGATION INC	0.00	0.07	0.00
C	3722	JEFF GONCHOROFF			
C	1053	JENSEN SHELL	0.00	0.35	0.00
C	3483	JKR VENTURES INC DBA R & S MINI MART	0.00	0.22	0.00
C	692	JOHN'S BODY SHOP	0.00	0.02	0.00
C	1626	JUDICIAL COUNCIL OF CALIFORNIA - AOC	0.01	0.00	0.00
C	630	K AUTO BODY	0.00	0.11	0.00
C	711	KASCO FAB, INC			
C	8436	KDR PET TREATS, LLC			
C	2003	KEARNEYS' BRASS WORKS INC	0.00	0.00	0.00
C	2004	KEARNEYS' MACHINE WORKS	0.00	0.00	0.00
C	712	KEARNEYS' MANUFACTURING	0.00	0.02	0.01
C	2457	KEISER SPORTS HEALTH EQUIPMENT	0.21	0.01	0.14
C	2873	KFSN-TV CAPITAL CITIES/ABC INC	0.00	0.00	0.00
C	2494	KING INDUSTRIAL HARD CHROME			
C	234	KRAFT HEINZ FOODS COMPANY	1.05	0.60	1.73
C	375	KRAFT HEINZ FOODS COMPANY (CORNNUTS)	0.35	0.08	0.38
C	3216	KROEKER, INC.	0.00	0.00	0.00
C	92	KWIK SERV	0.00	0.14	0.00
C	3252	LA TAPATIA TORTILLERIA INC	2.06	0.13	0.25
C	3706	LEVEL 3 COMMUNICATIONS LLC	0.08	0.01	0.01
C	782	LIFTCO CAPS SANDBLASTING	0.15	0.01	0.12
C	8589	LIGHTNING SOURCE INC.	0.00	0.00	0.00
C	788	LOS DOS AMIGOS AUTOBODY			
C	2404	LOTUS COMMUNICATIONS, CORP	0.01	0.00	0.00
C	7348	LYONS MAGNUS	0.38	0.26	0.45
C	8829	LYONS MAGNUS	0.00	0.00	0.00
C	4198	M. L. STREET PROPERTIES, A JOINT VENTURE	0.01	0.00	0.00
C	2254	MALAGA COUNTY WATER DISTRICT	0.00	0.00	0.00
C	2875	MALAGA COUNTY WATER DISTRICT	0.00	0.00	0.00
C	2876	MALAGA COUNTY WATER DISTRICT	0.04	0.00	0.00
C	8403	MALAGA COUNTY WATER DISTRICT	0.00	0.00	0.00
C	4305	MALAGA POWER, LLC	0.84	0.04	0.32
C	6327	MANDO'S COLLISION & PAINT	0.00	0.08	0.00
C	1868	MANHEIM CENTRAL CA/TRA-CENTRAL CA	0.01	0.00	0.00
C	1544	MARTIN GARCIA (GARNOL)	0.00	0.00	0.00
C	817	MB TECHNOLOGY	0.00	2.62	1.58
C	3008	MCI	0.03	0.00	0.00

C	3725	MEMLEY AVIATION	0.00	0.09	0.00
C	992	MGA LIQUOR 3	0.00	0.09	0.00
C	831	MICHELSSEN PACKAGING CO., OF CA	0.00	0.00	0.27
C	838	MIKE'S AUTOBODY			
C	2197	MILLER MILLING COMPANY	0.00	0.00	0.95
C	844	MISSION UNIFORM & LINEN SERVICE	0.04	0.04	1.41
C	4314	MORAN'S AUTO FRAME & BODY REPAIR	0.00	0.03	0.01
C	9215	NEW CINGULAR WIRELESS, PCS DBA AT&T			
C	3855	NEW ENGLAND SHEET METAL & MECHANICAL CO	0.01	0.00	0.49
C	626	NEW WORLD PASTA	0.00	0.00	0.04
C	8850	NEWSTAR WAREHOUSE & PACKAGING			
C	8630	NICHOLAS J. BUSICK	0.05	0.00	0.00
C	1141	NIRMAL SINGH SHOP N QUICK INC	0.00	0.15	0.00
C	2425	ORANGE AVENUE DISPOSAL	0.00	0.00	0.00
C	1067	P C AUTO BODY	0.00	0.03	0.01
C	898	PACIFIC BELL TELEPHONE CO (DBA AT&T)	0.23	0.02	0.01
C	1669	PACIFIC BELL TELEPHONE CO (DBA AT&T)	0.08	0.00	0.00
C	906	PACIFIC CHOICE BRANDS	0.32	0.17	0.25
C	7089	PACIFIC GAS & ELECTRIC (BLDG B)	0.01	0.00	0.00
C	899	PACIFIC GAS & ELECTRIC CO	0.00	0.01	0.00
C	930	PACIFIC GAS & ELECTRIC CO	0.02	0.00	0.00
C	933	PACIFIC GAS & ELECTRIC CO	0.02	0.00	0.00
C	2886	PACIFIC GAS & ELECTRIC CO	0.05	0.00	0.00
C	5884	PACIFIC GAS & ELECTRIC COMPANY	0.01	0.00	0.00
C	9288	PACIFIC GAS AND ELECTRIC COMPANY			
C	9188	PACIFIC GRAIN & FOODS LLC			
C	8664	PAINT INNOVATIONS			
C	4351	PAPER, PULP & FILM	0.00	0.00	0.00
C	8523	PATRICK W GEIGER			
C	916	PATTON SHEET METAL	0.03	0.00	0.00
C	2063	PAUL EVERT'S RV COUNTRY, INC.	0.00	0.04	0.01
C	9209	PDM STEEL			
C	4371	PEACOCK AUTO BODY			
C	923	PENNY WISE	0.06	0.27	0.07
C	2252	PENNY-NEWMAN GRAIN COMPANY	0.27	0.24	0.70
C	1184	PIC 'N' GO #2	0.00	0.16	0.00
C	8259	PITMAN FAMILY FARMS			
C	8256	PLAZA CONCRETE INC.	0.00	0.00	0.01
C	3162	PRAXAIR DISTRIBUTION INC.	0.00	3.73	0.00
C	3118	PRESTIGE PRINTING	0.00	0.32	0.00
C	3058	PRODUCERS DAIRY FOODS, INC	0.25	0.12	0.17

C	980	PRUDENTIAL OVERALL SUPPLY	0.31	0.04	1.53
C	8984	QUALITY CONCRETE			
C	693	QUICK FOOD STORE	0.00	0.06	0.00
C	1139	QUICK PICK & DELI	0.00	0.07	0.00
C	4145	QUIKSERVE ENTERPRISES BURGER KING #3160	0.07	0.05	0.01
C	4204	QUINN RENTAL SERVICES	0.00	0.00	0.00
C	3327	QWEST COMMUNICATIONS CO LLC/CENTURYLINK	0.02	0.00	0.00
C	3273	R & J AUTO BODY SHOP	0.00	0.00	0.00
C	7403	R & L CARRIERS INC	0.02	0.01	0.00
C	4356	R & R CUSTOMS			
C	1029	R M KING CO	0.00	0.48	0.00
C	1045	R P M PLANING MILL	0.00	0.00	0.34
C	2261	RANI FOOD & LIQUOR INC.	0.00	0.17	0.00
C	1873	RANSOME MANUFACTURING	0.00	1.04	0.89
C	1003	RED TRIANGLE	0.00	0.52	0.00
C	551	RENEW AUTO BODY & PAINT	0.00	0.03	0.02
C	1820	RIO BRAVO FRESNO	100.80	0.06	24.00
C	1031	ROBERT V. JENSEN, INC	0.00	0.21	0.00
C	1049	RUTTER ARMEY			
C	1057	SAF-T-CAB	0.26	0.02	0.30
C	1061	SAL'S AUTOBODY SHOP	0.00	0.03	0.04
C	9230	SALVATION ARMY DBA SILVERCREST RET.	0.03	0.00	0.00
C	7318	SAN JOAQUIN STAIRS INC	0.00	0.00	0.01
C	1074	SANGER BOATS, INC.	0.00	6.65	0.19
C	1080	SCELZI ENTERPRISES INC	0.01	15.40	0.00
C	1081	SCHMIDTS AUTOBODY SHOP	0.00	0.15	0.08
C	1077	SFPP, L.P.	14.95	66.49	0.66
C	393	SILVAS OIL COMPANY, INC.	0.00	0.44	0.00
C	4068	SINCLAIR SYSTEMS INTERNATIONAL, LLC	0.00	0.01	0.00
C	7865	SPECIALTY SALES LLC	0.01	0.01	0.00
C	4018	SPRINT/UNITED MANAGEMENT COMPANY	0.02	0.00	0.00
C	3891	STATE OF CA, JUDICIAL COUNCIL OF CA, ADM	0.02	0.00	0.00
C	8628	STATE OF CALIFORNIA	0.00	0.00	0.00
C	8186	STATE OF CALIFORNIA DEPT OF TRANSPORTATI	0.03	0.00	0.00
C	7130	STORAGE SYSTEMS, INC	0.00	0.00	0.03
C	903	STRATAS FOODS, LLC	0.33	0.18	0.34
C	1193	STURDY PRODUCTS			
C	2471	STURDY SAFE			

C	1968	SUNNYLAND BULGUR WHEAT, INC.	0.11	0.06	0.11
C	1201	SUPER 1 FOOD STORE	0.00	0.06	0.00
C	733	SUPER-7	0.00	0.07	0.00
C	8423	SUPERIOR AUTO ENTERPRISES INC	0.00	0.02	0.00
C	2783	TAYLOR COMMUNICATIONS-FRESNO	0.00	0.45	0.00
C	240	TESORO REFINING & MARKETING CO. LLC	0.00	0.18	0.00
C	6189	THE BURLINGTON NORTHERN SANTA FE RAILWAY	0.00	0.00	0.00
C	4367	THE CABINETMAKER	0.00	0.00	0.00
C	7992	THE PAPE GROUP-DAN RADONSKI	0.01	0.34	0.05
C	1241	TINKLER MISSION CHAPEL	0.02	0.01	0.04
C	2241	TJ FOOD N LIQUOR (ERIC S. TANG)	0.00	0.19	0.00
C	4217	TONY'S 1 STOP SHOP	0.00	0.20	0.00
C	1245	TOWER GAS & MINI MART	0.00	0.09	0.00
C	177	TRIPLE A RADIATOR & AUTO	0.00	0.00	0.00
C	3793	TULARE ARCO (SAI ROJA INC)	0.00	1.55	0.00
C	1568	UNITED AUTO BODY	0.00	0.07	0.01
C	1268	UNITED PARCEL SERVICE	0.00	0.06	0.00
C	7175	UNITED SECURITY BANK	0.02	0.00	0.00
C	7384	UNITED STATES COLD STORAGE OF CALIFORNIA	0.00	0.00	0.00
C	1337	UNIVAR USA INC	0.00	0.07	0.00
C	7753	UNIVAR USA INC	0.00	0.04	0.00
C	8478	UPTOWN INVESTMENTS LP	0.02	0.00	0.00
C	4223	USGP FRESNO IRS LLC C/O MANCO ABBOTT INC	0.01	0.00	0.00
C	1317	UTILITY TRAILER SALES COMPANY	0.12	0.27	0.05
C	1326	VALLEY FIG GROWERS	0.09	0.04	0.04
C	84	VALLEY GAS AND MINI MART (AJITPAL SINGH)	0.00	0.10	0.00
C	7259	VALLEY IRON INC	0.00	0.00	0.03
C	3087	VALLEY LAVOSH BAKING COMPANY	0.13	0.01	0.02
C	9123	VALLEY PACIFIC PETROLEUM SERVICES			
C	7147	VALLEY PUBLIC TELEVISION INC	0.00	0.00	0.00
C	1322	VALLEY WRECKER SALES	0.00	0.29	0.06
C	8965	VEIR CORP	0.00	0.00	0.00
C	367	VERIZON WIRELESS - CALWA	0.01	0.00	0.00
C	8452	VERIZON WIRELESS- JENSEN AVENUE	0.00	0.00	0.00
C	8745	VERIZON WIRELESS:EFFIE	0.00	0.00	0.00
C	8051	VERIZON WIRELESS-1ST & BELMONT	0.00	0.00	0.00
C	8176	VETERANS HOME OF CALIFORNIA, FRESNO	0.17	0.00	0.00
C	578	VISA PETROLEUM INC	0.00	0.10	0.00

C	948	VITRO FLAT GLASS LLC	450.19	1.09	18.93
C	2781	WAWONA FROZEN FOODS	0.03	0.02	0.03
C	6926	WCR INCORPORATED	0.00	0.32	0.18
C	8392	WECO SUPPLY			
C	920	WEIR FLOWAY, INC.	0.00	1.38	0.39
C	4161	WESTERN CO-GEN, LLC	0.00	0.00	0.00
C	3589	WESTROCK CONVERTING LLC	0.06	0.19	0.02
C	7165	WESTROCK CP, LLC	0.20	5.39	0.29
C	2675	WHOLESALE EQUIPMENT OF FRESNO	0.00	0.28	0.07
C	1398	WILBUR-ELLIS COMPANY	0.00	0.00	0.04
C	287	WKM ASSOCIATES INC	0.00	0.47	0.00
C	2250	WONG CORPORATION	0.00	0.06	0.00

Table 3: Year 2029 Projected Emissions Inventory for District Permitted Facilities

Region	ID	Facility Name	NOX (tpy)	VOC (tpy)	PM2.5 (tpy)
C	7389	1060 FULTON MALL LLC	0.01	0.00	0.00
C	3170	21ST DIST. AGRICULTURAL ASSOC.	0.00	0.00	0.00
C	2892	2925 S MAPLE PARTNERS LLC	0.01	0.00	0.00
C	7421	5TH APPELLATE COURT OF CALIFORNIA	0.05	0.00	0.00
C	46	ABBY ARCO	0.00	0.25	0.00
C	1239	AFFINITY TRUCK CENTER	0.00	0.14	0.01
C	8861	AGRICULTURAL MANUFACTURING	0.00	0.03	0.00
C	7365	AHERN RENTALS INC	0.00	0.00	0.00
C	9237	AMAZON.COM SERVICES INC -FAT1			
C	1675	AMERICAN CARRIER EQUIP TRAILER SALES LLC	0.00	0.76	0.21
C	1547	AMERICAN MEDICAL SERVICES	0.00	0.00	0.00
C	2699	AMERICAN PAVING CO	0.00	0.00	0.00
C	2108	AMERIPRIDE UNIFORM SERVICES	0.64	0.15	0.20
C	6990	AMROS WHOLESALERS (KAMAL DAUD SUBOH)	0.00	0.02	0.00
C	7441	AMWARE PALLET SERVICES, LLC	0.00	0.34	0.08
C	8354	ANDERSON WOODWORKING	0.00	0.19	0.79
C	859	ANGELICA	1.08	0.08	0.58
C	4073	AP GILL INC. DBA ZOO LIQUOR & GAS	0.00	0.08	0.00
C	61	ARROW ELECTRIC	0.09	0.09	0.01
C	63	ART'S AUTO BODY & PAINT	0.00	0.15	0.02
C	8594	ASR ENGINEERING INC			
C	4048	B P PRECISION	0.00	0.00	0.00
C	3271	BASQUE FRENCH BAKERY			
C	7994	BEAL DEVELOPMENT LLC-CHEVRON FOOD MART	0.00	0.26	0.00
C	119	BETTS COMPANY	0.72	2.74	0.18
C	9005	BIMBO BAKERIES USA			
C	8287	BRANDT CONSOLIDATED, INC	0.00	0.00	0.22
C	3951	BRANDT CONSOLIDATED, INC.	0.00	0.19	0.01
C	7850	BRIGHT PATH LIGHTING INC			
C	38	BUNNELL & ALMANN'S PETROLEUM INC	0.00	0.13	0.00
C	3715	BUREAU OF RECLAMATION	0.02	0.00	0.00
C	4107	BURGER KING #12875/ I DOUBLE ON NINE INC	0.04	0.01	0.00
C	1850	C & C AUTOBODY	0.00	0.12	0.02
C	50	C&B ARCO DBA H&R ENTERPRISES	0.00	0.48	0.00
C	1186	CALAVERAS MATERIALS INC	0.00	0.00	0.13
C	2696	CALAVERAS MATERIALS INC	1.13	0.37	0.85
C	2323	CALCO GEN LLC	1.24	0.12	0.50

C	1247	CALIBER COLLISION CENTER	0.00	0.46	0.14
C	8267	CALIFORNIA BEDROOM INC	0.00	0.00	0.00
C	402	CALIFORNIA DAIRIES, INC.	3.25	5.47	2.72
C	7674	CALIFORNIA DEPT OF TRANSPORTATION	0.00	0.05	0.00
C	9034	CALIFORNIA HIGHWAY PATROL			
C	189	CALIFORNIA HIGHWAY PATROL #435	0.00	0.04	0.00
C	1917	CALIFORNIA-FRESNO OIL CO	0.00	0.22	0.00
C	2368	CALIFORNIA-FRESNO OIL CO	0.00	0.41	0.00
C	2880	CARDLOCK FUELS SYSTEM INC	0.00	0.06	0.00
C	4121	CARL'S JR #7545	0.08	0.02	0.00
C	4114	CARL'S JR.	0.05	0.01	0.00
C	4116	CARL'S JR.	0.06	0.01	0.00
C	8490	CARO NUT COMPANY, INC			
C	805	CASTLE B INC DBA PARKSIDE CHEVRON	0.00	0.27	0.00
C	4141	CAVALIER FOOD	0.00	0.27	0.00
C	5979	CEDAR AVE RECYCLING AND TRANSFER STATION	0.84	0.36	0.97
C	4339	CEMEX - SOUTH FRESNO	0.00	0.00	0.85
C	7703	CENTRAL CALIFORNIA SPCA	0.00	0.00	0.00
C	694	CENTRAL FOOD MART	0.00	0.20	0.00
C	253	CENTRAL VALLEY TRAILER	0.00	0.05	0.00
C	2313	CIRCLE D FOOD & LIQUOR	0.00	0.06	0.00
C	2325	CIRCLE K STORES INC	0.00	0.16	0.00
C	331	CITY OF FRESNO	0.02	0.14	0.00
C	3615	CITY OF FRESNO	0.01	0.00	0.00
C	4020	CITY OF FRESNO	0.04	0.00	0.00
C	6969	CITY OF FRESNO	0.03	0.00	0.00
C	7368	CITY OF FRESNO	0.00	0.00	0.00
C	7875	CITY OF FRESNO	0.00	0.00	0.00
C	8194	CITY OF FRESNO - WATER DIVISION			
C	8195	CITY OF FRESNO - WATER DIVISION			
C	8918	CITY OF FRESNO - WATER DIVISION			
C	3852	CITY OF FRESNO (SOLID WASTE MGT DIV)	0.01	0.00	0.00
C	7673	CITY OF FRESNO FIRE DEPARTMENT	0.00	0.00	0.00
C	2477	CITY OF FRESNO FLT MGT/CEDAR	0.06	0.02	0.07
C	2079	CITY OF FRESNO WATER DIVISION	0.00	0.00	0.00
C	3203	CITY OF FRESNO WATER DIVISION	0.00	0.00	0.00
C	3257	CITY OF FRESNO WATER DIVISION	0.02	0.00	0.00
C	3261	CITY OF FRESNO WATER DIVISION	0.02	0.00	0.00
C	3269	CITY OF FRESNO WATER DIVISION	0.02	0.00	0.00
C	3316	CITY OF FRESNO WATER DIVISION	0.05	0.00	0.00
C	3319	CITY OF FRESNO WATER DIVISION	0.05	0.00	0.00
C	7	CITY OF FRESNO, CITY HALL	0.00	0.00	0.00

C	9208	CITY OF FRESNO, PARKING DIVISION			
C	3885	CITY OF FRESNO, POLICE DEPT	0.02	0.00	0.00
C	3884	CITY OF FRESNO, TRAFFIC ENGINEERING	0.01	0.00	0.00
C	9158	CLUB ONE CASINO INC			
C	4214	COAST TO COAST PETROLEUM	0.00	0.34	0.00
C	2862	COLONIAL VAN & STORAGE	0.00	0.00	0.00
C	3296	COMCAST CABLE COMMUNICATIONS INC	0.01	0.00	0.00
C	5600	CONCEPT COATING	0.01	0.00	0.03
C	2256	CONCEPT VEHICLE TECHNOLOGY INC	0.00	0.02	0.00
C	3903	COUNTY OF FRESNO	0.15	0.00	0.00
C	3920	COUNTY OF FRESNO	0.06	0.18	0.00
C	1333	COUNTY OF FRESNO FACILITY SERVICES	0.11	0.03	0.05
C	1270	CROP PRODUCTION SERVICES INC	0.00	0.00	0.04
C	1271	CROP PRODUCTION SERVICES INC	0.00	0.09	0.00
C	8340	CROWN INDUSTRIES DBA CROWN SHORTLOAD CON	0.00	0.00	0.06
C	9339	CROWN LIFT TRUCKS - FRESNO BRANCH			
C	8744	CUSTOM AG FORMULATORS, INC	0.00	0.01	0.03
C	406	DARLING INGREDIENTS INC	3.89	0.29	1.05
C	2491	DELRAY TIRE AND RETREADING INC	0.00	0.00	0.05
C	9037	DEPARTMENT OF HOMELAND SECURITY DETENTIO			
C	432	DONAGHY SALES	0.00	0.03	0.00
C	3130	DUMONT PRINTING INC	0.00	0.77	0.00
C	448	EAGLE BUILDING MATERIALS	0.00	0.00	0.03
C	591	EAST BAY CLARK LIFT DBA GRAY LIFT	0.00	0.09	0.01
C	451	ECONOMY FORMS CORPORATION	0.00	1.96	0.00
C	453	ELECTRIC MOTOR SHOP INC.	0.02	0.00	0.02
C	7719	ELECTRONICS RECYCLERS INTERNATIONAL INC	0.00	0.00	0.00
C	3944	ELI LILLY AND COMPANY	0.04	0.00	0.00
C	454	ELLIOT MANUFACTURING CO.	0.00	0.00	0.00
C	3923	E-S AUTO REPAIR & AUTO BODY			
C	460	EVANS REBUILT PARTS			
C	3733	EVERGREEN CREMATION SERVICE OF CALIFORNI	0.02	0.00	0.01
C	9224	EVOLUTION AUTOBODY REPAIR			
C	473	E-Z HAUL READY MIX	0.00	0.00	0.16
C	476	FAENCAL TARTARIC PRODUCTS INC	0.00	0.00	0.00
C	947	FAMILY EXPRESS FOOD & LIQUOR	0.00	0.10	0.00
C	987	FAMILY EXPRESS FOOD & LIQUOR #2	0.00	0.13	0.00
C	8043	FAMILY EXPRESS FOOD AND DELI	0.00	0.13	0.00
C	1395	FAST N ESY #21	0.00	0.08	0.00

C	8894	FEDEX GROUND			
C	89	FIFTH WHEEL TRUCK STOP INC.	0.00	0.00	0.00
C	8904	FINE LINE CUSTOMS			
C	9279	FIRST STUDENT INC			
C	9198	FIVE STAR TRAILERS INC			
C	2651	FMC CORPORATION	0.00	0.00	0.00
C	8327	FOOD MAXX #456	0.00	0.00	0.00
C	507	FOSTER FARMS	0.27	0.14	0.46
C	1406	FOSTER FARMS, BELGRAVIA PLANT	0.34	0.16	1.10
C	515	FRANCIS CLASSIC CARS	0.00	0.49	0.24
C	517	FRANK RUIZ AVIONICS	0.00	0.03	0.00
C	2104	FREDERICK ANTIQUE RESTORATIONS	0.00	0.02	0.00
C	1117	FRESNO 99 INVESTMENTS LLC	0.00	0.64	0.00
C	528	FRESNO AREA EXPRESS	0.06	0.06	0.00
C	521	FRESNO BEE	0.01	2.57	0.00
C	2797	FRESNO CENTRAL MARKET	0.00	0.03	0.00
C	1988	FRESNO CITY COLLEGE	0.00	0.63	0.13
C	540	FRESNO COMMUNITY HOSPITAL	1.27	0.04	0.06
C	1934	FRESNO CONVENTION & ENTERTAINMT CTR, SMG	0.00	0.00	0.00
C	1923	FRESNO COUNTY	0.00	0.06	0.00
C	1614	FRESNO COUNTY BUILD MAINT DIV	0.01	0.00	0.00
C	1622	FRESNO COUNTY BUILD MAINT DIV	0.02	0.00	0.00
C	1624	FRESNO COUNTY BUILD MAINT DIV	0.02	0.00	0.00
C	1625	FRESNO COUNTY BUILD MAINT DIV	0.12	0.01	0.00
C	1627	FRESNO COUNTY BUILD MAINT DIV	0.01	0.00	0.00
C	1629	FRESNO COUNTY BUILD MAINT DIV	0.59	0.23	0.43
C	4011	FRESNO COUNTY BUILDING MAINTENANCE	0.00	0.00	0.00
C	2021	FRESNO COUNTY DEPT AGRICULTURE	0.00	0.00	0.00
C	383	FRESNO COUNTY FLEET SERVICES	0.00	0.02	0.00
C	671	FRESNO COUNTY FLEET SERVICES	0.06	0.05	0.07
C	8947	FRESNO COUNTY SUPERINTENDENT OF SCHOOLS	0.00	0.00	0.00
C	2066	FRESNO IRRIGATION DISTRICT	0.00	0.02	0.00
C	3971	FRESNO METROPOLITAN FLOOD CONTROL DIST	0.00	0.00	0.00
C	9222	FRESNO MOSQUITO & VCD	0.00	0.01	0.00
C	3537	FRESNO PET CEMETERY	0.20	0.02	0.06
C	3084	FRESNO TRACTOR INC	0.00	0.02	0.00
C	1623	FRESNO UNIFIED SCHOOL DISTRICT	0.13	0.01	0.01
C	3088	FRESNO UNIFIED SCHOOL DISTRICT	0.02	0.00	0.00
C	3890	FRESNO UNIFIED SCHOOL DISTRICT	0.00	0.00	0.00

C	4167	FRESNO UNIFIED SCHOOL DISTRICT	0.01	0.00	0.00
C	7238	FRESNO UNIFIED SCHOOL DISTRICT	0.00	0.00	0.00
C	525	FRESNO UNLIMITED	0.00	0.00	0.00
C	3919	GENERAL COATINGS, INC	0.00	0.00	0.02
C	3168	GEORGIA-PACIFIC CORRUGATED LLC	0.02	0.23	0.02
C	3619	GET-N-GO #4	0.06	0.05	0.07
C	4245	GLAXO SMITH KLINE CONSUMER BRANDS	0.01	0.00	0.00
C	2408	GLEIM-CROWN PUMP INC	0.03	0.01	0.00
C	1541	GOLDEN BOY MARKET	0.00	0.11	0.00
C	7218	GOLDEN STATE CREMATORY INC	0.09	0.00	0.05
C	3812	GOLDEN WORK FINISH	0.00	0.00	0.00
C	3743	GOULDS PUMPS	0.00	0.08	0.01
C	3224	GREENWAY AUTOBODY	0.06	0.05	0.03
C	845	GRUMA CORPORATION	2.88	0.21	0.28
C	4228	GSA PACIFIC RIM REGION	0.07	0.00	0.00
C	248	GUSMER ENTERPRISES INC	0.90	0.05	1.65
C	613	HANDI STOP MARKET	0.00	0.04	0.00
C	2312	HARMON STAR MART #2 (AVTAR SINGH)	0.06	0.14	0.07
C	2090	HARRIS MANUFACTURING, INC.			
C	708	HEADWATERS RESOURCES	0.00	0.00	0.02
C	7445	HEALTH COMP	0.03	0.00	0.00
C	8827	HEALTHCARE CENTER OF FRESNO			
C	7174	HERTZ EQUIPMENT RENTAL CORP	0.00	0.00	0.00
C	7642	HI FRESNO HOSPITALITY LLC, DBA RADISSON	0.00	0.00	0.00
C	2643	HOWARD AUTO BODY	0.00	0.06	0.02
C	1891	HYDRATECH LLC	0.01	0.29	0.15
C	8747	IFCO SYSTEMS NA			
C	3623	INLAND STAR WAREHOUSE	0.04	0.00	0.00
C	8805	INTER STATE OIL CO			
C	8447	IPT, INC.	0.00	6.41	0.00
C	7222	IPULL-U-PULL AUTO PARTS	0.00	0.00	0.00
C	1561	J D CLASSICS	0.00	0.01	0.00
C	4137	J M EQUIPMENT CO INC	0.00	0.06	0.01
C	567	J&B AUTO BODY REPAIR	0.00	0.06	0.03
C	3293	JACK'S GAS	0.00	0.18	0.00
C	3618	JACK'S TIRE & OIL OF CALIFORNIA INC	0.00	0.85	0.35
C	2708	JAIN IRRIGATION INC	0.00	0.07	0.00
C	3722	JEFF GONCHOROFF			
C	1053	JENSEN SHELL	0.00	0.29	0.00
C	3483	JKR VENTURES INC DBA R & S MINI MART	0.00	0.18	0.00
C	692	JOHN'S BODY SHOP	0.00	0.02	0.00
C	1626	JUDICIAL COUNCIL OF CALIFORNIA - AOC	0.01	0.00	0.00
C	630	K AUTO BODY	0.00	0.12	0.00

C	711	KASCO FAB, INC			
C	8436	KDR PET TREATS, LLC			
C	2003	KEARNEYS' BRASS WORKS INC	0.00	0.00	0.00
C	2004	KEARNEYS' MACHINE WORKS	0.00	0.00	0.00
C	712	KEARNEYS' MANUFACTURING	0.00	0.01	0.01
C	2457	KEISER SPORTS HEALTH EQUIPMENT	0.21	0.01	0.16
C	2873	KFSN-TV CAPITAL CITIES/ABC INC	0.00	0.00	0.00
C	2494	KING INDUSTRIAL HARD CHROME			
C	234	KRAFT HEINZ FOODS COMPANY	0.94	0.59	1.72
C	375	KRAFT HEINZ FOODS COMPANY (CORNNUTS)	0.31	0.08	0.39
C	3216	KROEKER, INC.	0.00	0.00	0.00
C	92	KWIK SERV	0.00	0.12	0.00
C	3252	LA TAPATIA TORTILLERIA INC	1.82	0.13	0.25
C	3706	LEVEL 3 COMMUNICATIONS LLC	0.08	0.01	0.01
C	782	LIFTCO CAPS SANDBLASTING	0.15	0.01	0.13
C	8589	LIGHTNING SOURCE INC.	0.00	0.00	0.00
C	788	LOS DOS AMIGOS AUTOBODY			
C	2404	LOTUS COMMUNICATIONS, CORP	0.01	0.00	0.00
C	7348	LYONS MAGNUS	0.34	0.25	0.45
C	8829	LYONS MAGNUS	0.00	0.00	0.00
C	4198	M. L. STREET PROPERTIES, A JOINT VENTURE	0.01	0.00	0.00
C	2254	MALAGA COUNTY WATER DISTRICT	0.00	0.00	0.00
C	2875	MALAGA COUNTY WATER DISTRICT	0.00	0.00	0.00
C	2876	MALAGA COUNTY WATER DISTRICT	0.04	0.00	0.00
C	8403	MALAGA COUNTY WATER DISTRICT	0.00	0.00	0.00
C	4305	MALAGA POWER, LLC	0.85	0.04	0.33
C	6327	MANDO'S COLLISION & PAINT	0.00	0.09	0.00
C	1868	MANHEIM CENTRAL CA/TRA-CENTRAL CA	0.01	0.00	0.00
C	1544	MARTIN GARCIA (GARNOL)	0.00	0.00	0.00
C	817	MB TECHNOLOGY	0.00	2.90	1.73
C	3008	MCI	0.03	0.00	0.00
C	3725	MEMLEY AVIATION	0.00	0.06	0.00
C	992	MGA LIQUOR 3	0.00	0.07	0.00
C	831	MICHELSEN PACKAGING CO., OF CA	0.00	0.00	0.27
C	838	MIKE'S AUTOBODY			
C	2197	MILLER MILLING COMPANY	0.00	0.00	1.01
C	844	MISSION UNIFORM & LINEN SERVICE	0.04	0.04	1.53
C	4314	MORAN'S AUTO FRAME & BODY REPAIR	0.00	0.03	0.01
C	9215	NEW CINGULAR WIRELESS, PCS DBA AT&T			
C	3855	NEW ENGLAND SHEET METAL & MECHANICAL CO	0.01	0.00	0.51

C	626	NEW WORLD PASTA	0.00	0.00	0.04
C	8850	NEWSTAR WAREHOUSE & PACKAGING			
C	8630	NICHOLAS J. BUSICK	0.05	0.00	0.00
C	1141	NIRMAL SINGH SHOP N QUICK INC	0.00	0.12	0.00
C	2425	ORANGE AVENUE DISPOSAL	0.00	0.00	0.00
C	1067	P C AUTO BODY	0.00	0.03	0.01
C	898	PACIFIC BELL TELEPHONE CO (DBA AT&T)	0.24	0.02	0.01
C	1669	PACIFIC BELL TELEPHONE CO (DBA AT&T)	0.08	0.00	0.00
C	906	PACIFIC CHOICE BRANDS	0.28	0.17	0.25
C	7089	PACIFIC GAS & ELECTRIC (BLDG B)	0.01	0.00	0.00
C	899	PACIFIC GAS & ELECTRIC CO	0.00	0.01	0.00
C	930	PACIFIC GAS & ELECTRIC CO	0.02	0.00	0.00
C	933	PACIFIC GAS & ELECTRIC CO	0.02	0.00	0.00
C	2886	PACIFIC GAS & ELECTRIC CO	0.05	0.00	0.00
C	5884	PACIFIC GAS & ELECTRIC COMPANY	0.01	0.00	0.00
C	9288	PACIFIC GAS AND ELECTRIC COMPANY			
C	9188	PACIFIC GRAIN & FOODS LLC			
C	8664	PAINT INNOVATIONS			
C	4351	PAPER, PULP & FILM	0.00	0.00	0.00
C	8523	PATRICK W GEIGER			
C	916	PATTON SHEET METAL	0.03	0.00	0.00
C	2063	PAUL EVERT'S RV COUNTRY, INC.	0.00	0.04	0.01
C	9209	PDM STEEL			
C	4371	PEACOCK AUTO BODY			
C	923	PENNY WISE	0.06	0.22	0.07
C	2252	PENNY-NEWMAN GRAIN COMPANY	0.24	0.24	0.72
C	1184	PIC 'N' GO #2	0.00	0.13	0.00
C	8259	PITMAN FAMILY FARMS			
C	8256	PLAZA CONCRETE INC.	0.00	0.00	0.01
C	3162	PRAXAIR DISTRIBUTION INC.	0.00	3.90	0.01
C	3118	PRESTIGE PRINTING	0.00	0.34	0.00
C	3058	PRODUCERS DAIRY FOODS, INC	0.22	0.12	0.17
C	980	PRUDENTIAL OVERALL SUPPLY	0.28	0.04	1.65
C	8984	QUALITY CONCRETE			
C	693	QUICK FOOD STORE	0.00	0.05	0.00
C	1139	QUICK PICK & DELI	0.00	0.06	0.00
C	4145	QUIKSERVE ENTERPRISES BURGER KING #3160	0.07	0.06	0.01
C	4204	QUINN RENTAL SERVICES	0.00	0.00	0.00
C	3327	QWEST COMMUNICATIONS CO LLC/CENTURYLINK	0.02	0.00	0.00
C	3273	R & J AUTO BODY SHOP	0.00	0.00	0.00
C	7403	R & L CARRIERS INC	0.02	0.01	0.00

C	4356	R & R CUSTOMS			
C	1029	R M KING CO	0.00	0.55	0.00
C	1045	R P M PLANING MILL	0.00	0.00	0.35
C	2261	RANI FOOD & LIQUOR INC.	0.00	0.14	0.00
C	1873	RANSOME MANUFACTURING	0.00	1.20	1.00
C	1003	RED TRIANGLE	0.00	0.49	0.00
C	551	RENEW AUTO BODY & PAINT	0.00	0.04	0.02
C	1820	RIO BRAVO FRESNO	111.18	0.06	25.55
C	1031	ROBERT V. JENSEN, INC	0.00	0.17	0.00
C	1049	RUTTER ARMEY			
C	1057	SAF-T-CAB	0.26	0.02	0.32
C	1061	SAL'S AUTOBODY SHOP	0.00	0.03	0.05
C	9230	SALVATION ARMY DBA SILVERCREST RET.	0.03	0.00	0.00
C	7318	SAN JOAQUIN STAIRS INC	0.00	0.00	0.01
C	1074	SANGER BOATS, INC.	0.00	7.51	0.20
C	1080	SCELZI ENTERPRISES INC	0.01	17.09	0.00
C	1081	SCHMIDTS AUTOBODY SHOP	0.00	0.17	0.08
C	1077	SFPP, L.P.	14.32	67.04	0.63
C	393	SILVAS OIL COMPANY, INC.	0.00	0.42	0.00
C	4068	SINCLAIR SYSTEMS INTERNATIONAL, LLC	0.00	0.01	0.00
C	7865	SPECIALTY SALES LLC	0.02	0.01	0.00
C	4018	SPRINT/UNITED MANAGEMENT COMPANY	0.02	0.00	0.00
C	3891	STATE OF CA, JUDICIAL COUNCIL OF CA, ADM	0.02	0.00	0.00
C	8628	STATE OF CALIFORNIA	0.00	0.00	0.00
C	8186	STATE OF CALIFORNIA DEPT OF TRANSPORTATI	0.03	0.00	0.00
C	7130	STORAGE SYSTEMS, INC	0.00	0.00	0.03
C	903	STRATAS FOODS, LLC	0.29	0.18	0.34
C	1193	STURDY PRODUCTS			
C	2471	STURDY SAFE			
C	1968	SUNNYLAND BULGUR WHEAT, INC.	0.10	0.06	0.11
C	1201	SUPER 1 FOOD STORE	0.00	0.05	0.00
C	733	SUPER-7	0.00	0.06	0.00
C	8423	SUPERIOR AUTO ENTERPRISES INC	0.00	0.02	0.00
C	2783	TAYLOR COMMUNICATIONS-FRESNO	0.00	0.48	0.00
C	240	TESORO REFINING & MARKETING CO. LLC	0.00	0.14	0.00
C	6189	THE BURLINGTON NORTHERN SANTA FE RAILWAY	0.00	0.00	0.00
C	4367	THE CABINETMAKER	0.00	0.00	0.00
C	7992	THE PAPE GROUP-DAN RADONSKI	0.01	0.38	0.06
C	1241	TINKLER MISSION CHAPEL	0.03	0.01	0.04
C	2241	TJ FOOD N LIQUOR (ERIC S. TANG)	0.00	0.15	0.00

C	4217	TONY'S 1 STOP SHOP	0.00	0.16	0.00
C	1245	TOWER GAS & MINI MART	0.00	0.07	0.00
C	177	TRIPLE A RADIATOR & AUTO	0.00	0.00	0.00
C	3793	TULARE ARCO (SAI ROJA INC)	0.00	1.27	0.00
C	1568	UNITED AUTO BODY	0.00	0.08	0.01
C	1268	UNITED PARCEL SERVICE	0.00	0.05	0.00
C	7175	UNITED SECURITY BANK	0.02	0.00	0.00
C	7384	UNITED STATES COLD STORAGE OF CALIFORNIA	0.00	0.00	0.00
C	1337	UNIVAR USA INC	0.00	0.07	0.00
C	7753	UNIVAR USA INC	0.00	0.05	0.00
C	8478	UPTOWN INVESTMENTS LP	0.02	0.00	0.00
C	4223	USGP FRESNO IRS LLC C/O MANCO ABBOTT INC	0.01	0.00	0.00
C	1317	UTILITY TRAILER SALES COMPANY	0.12	0.30	0.05
C	1326	VALLEY FIG GROWERS	0.08	0.04	0.04
C	84	VALLEY GAS AND MINI MART (AJITPAL SINGH)	0.00	0.08	0.00
C	7259	VALLEY IRON INC	0.00	0.00	0.03
C	3087	VALLEY LAVOSH BAKING COMPANY	0.12	0.01	0.02
C	9123	VALLEY PACIFIC PETROLEUM SERVICES			
C	7147	VALLEY PUBLIC TELEVISION INC	0.00	0.00	0.00
C	1322	VALLEY WRECKER SALES	0.00	0.32	0.07
C	8965	VEIR CORP	0.00	0.00	0.00
C	367	VERIZON WIRELESS - CALWA	0.01	0.00	0.00
C	8452	VERIZON WIRELESS- JENSEN AVENUE	0.00	0.00	0.00
C	8745	VERIZON WIRELESS:EFFIE	0.00	0.00	0.00
C	8051	VERIZON WIRELESS-1ST & BELMONT	0.00	0.00	0.00
C	8176	VETERANS HOME OF CALIFORNIA, FRESNO	0.17	0.00	0.00
C	578	VISA PETROLEUM INC	0.00	0.08	0.00
C	948	VITRO FLAT GLASS LLC	450.19	1.13	18.93
C	2781	WAWONA FROZEN FOODS	0.02	0.02	0.03
C	6926	WCR INCORPORATED	0.00	0.34	0.18
C	8392	WECO SUPPLY			
C	920	WEIR FLOWAY, INC.	0.00	1.59	0.45
C	4161	WESTERN CO-GEN, LLC	0.00	0.00	0.00
C	3589	WESTROCK CONVERTING LLC	0.06	0.20	0.02
C	7165	WESTROCK CP, LLC	0.18	5.59	0.30
C	2675	WHOLESALE EQUIPMENT OF FRESNO	0.00	0.31	0.07
C	1398	WILBUR-ELLIS COMPANY	0.00	0.00	0.05
C	287	WKM ASSOCIATES INC	0.00	0.39	0.00
C	2250	WONG CORPORATION	0.00	0.05	0.00

MOBILE SOURCE EMISSIONS INVENTORY

On-Road Mobile Sources

Emissions from on-road mobile sources, which include passenger vehicles, buses, and trucks, were estimated using outputs from ARB's EMFAC2014 model. The on-road emissions were calculated by applying EMFAC2014 emission factors to the transportation activity data provided by the San Joaquin Valley air district.

EMFAC2014 includes data on California's car and truck fleets and travel activity. Light-duty motor vehicle fleet age, vehicle type, and vehicle population were updated based on 2012 DMV data. The model also reflects the emissions benefits of ARB's recent rule makings such as the Pavley Standards and Advanced Clean Cars Program, and includes the emissions benefits of ARB's Truck and Bus Rule and previously adopted rules for other on-road diesel fleets.

EMFAC2014 utilizes a socio-econometric regression modeling approach to forecast new vehicle sales and to estimate future fleet mix. Light-duty passenger vehicle population includes 2012 DMV registration data along with updates to mileage accrual using Smog Check data. Updates to heavy-duty trucks include model year specific emission factors based on new test data, and population estimates using DMV data for in-state trucks and International Registration Plan (IRP) data for out-of-state trucks.

Off-Road Mobile Sources

Emissions from off-road sources were estimated using a suite of category-specific models or, where a new model was not available, the OFFROAD2007 model. Many of the newer models were developed to support recent regulations, including in-use off-road equipment, ocean-going vessels and others. A summary of specific off-road categories is below:

Locomotives

In 2016, ARB updated California's Class I and Class II line-haul locomotive model. The new model provides the following updates: age and model year distribution based on 2011 and 2014 rail company data, activity based on Freight Analysis Framework (FAF) data, fuel growth based on Board of Equalization historical rail data, and new locomotive populations, survival rates, and Tier distributions. To estimate emissions, ARB used duty cycle, fuel consumption and activity data reported by the rail lines in 2011. These results were combined with the Class III locomotive emissions inventory from previous SIPS, which were incorporated in the 2006 locomotive inventory, to create an overall California line-haul locomotive emissions inventory for the SIP.

Additional information is available at:

https://www.arb.ca.gov/msei/categories.htm#offroad_motor_vehicles.

Pleasure Craft and Recreational Vehicles

A new model was developed in 2011 to estimate emissions from pleasure craft and recreational vehicles. In both cases, population, activity, and emission factors were re-assessed using new surveys, registration information, and emissions testing.

Additional information is available at:

https://www.arb.ca.gov/msei/categories.htm#offroad_motor_vehicles

In-Use Off-Road Equipment

ARB developed this model in 2010 to support the analysis for amendments to the In-Use Off-Road Diesel Fueled Fleets Regulation. Staff updated the underlying activity forecast to reflect more recent economic forecast data, which suggests a slower rate of recovery through 2024 than previously anticipated.

Additional information is available at:

https://www.arb.ca.gov/msei/categories.htm#offroad_motor_vehicles

Transport Refrigeration Units (TRU)

This model reflects updates to activity, population, growth and turn-over data, and emission factors developed to support the 2011 amendments to the Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units.

Additional information is available at:

https://www.arb.ca.gov/msei/categories.htm#offroad_motor_vehicles

Oil and Gas Wells: Workover Rigs, Drill Rigs and Support Equipment Allocation

The allocation of drill and work-over rigs and support equipment (such as pumps) for oil and gas wells was updated within the SJV Air Basin to reflect the physical location of wells instead of the registration location. This allocation was done at the county level, where the number of wells within a county in the SJV Air Basin was used to determine that county's share of emissions from specified equipment. The physical location and count of wells was updated using DOGGR Well Finder data from September 2013, supplied to ARB by the District.

Diesel Agricultural Equipment

The inventory for agricultural diesel equipment (such as tractors, harvesters, combines, sprayers and others) was revised based on a voluntary 2009 survey of farmers, custom operators, and first processors. The survey data, along with information from the 2007 USDA Farm Census, was used to revise almost every aspect of the agricultural inventory, including population, activity, age distribution, fuel use, and allocation. This updated inventory replaces general information on farm equipment in the United States with one specific to California farms and practices. The updated inventory was compared against other available data sources such as Board of Equalization fuel reports, USDA tractor populations and age, and Eastern Research Group tractor ages and activity, to ensure the results were reasonable and compared well against outside data sources.

Agricultural growth rates through 2050 were developed through a contract with URS Corp.

Fuel Storage and Handling

Emissions for fuel storage and handling were estimated using the OFFROAD2007 model.

Inventory Base Year

ARB worked with the local air districts to determine the base year that should be used across the State. Since the South Coast Air Quality Management District typically aligns their base year inventory with the data collection period for their Multiple Air Toxics Exposure Study, which was last conducted in 2012, ARB selected 2012 as the base year to maintain consistency in the State. Mobile source emissions have been forecasted for years 2017, 2024, and 2029 for the purposes of the CERP.

Methodology

The EMFAC model was used to assess emissions from on-road vehicles. Off-road mobile source emissions are estimated using a new modular approach for different source categories. On-road and off-road models account for the effects of various adopted regulations, technology types, and seasonal conditions on emissions.

Additional information on all ARB's Mobile source Methodologies and categories is available at: <https://ww3.arb.ca.gov/msei/msei.htm>

Summary of On-Road Mobile Source Emissions

Table 4 below summarizes the total estimated on-road mobile source emissions for each general on-road mobile source category in the South Central Fresno Community for 2017:

Table 4: Year 2017 On-Road Mobile Source Emissions

On-Road Mobile Source Category	NOx (tpy)	VOC (tpy)	PM2.5 (tpy)
Heavy Duty Vehicles	595.64	29.86	15.47
Medium Duty Vehicles	259.63	38.31	9.32
Light Duty Vehicles	244.88	292.01	23.18
Total	1100.15	360.18	47.97

Summary of Off-Road Mobile Source Emissions

Table 5 below summarizes the total estimated off-road mobile source emissions for

each general off-road mobile source category in the South Central Fresno Community for 2017:

Table 5: Year 2017 Off-Road Mobile Source Emissions

Off-Road Mobile Source Category	NOx (tpy)	VOC (tpy)	PM2.5 (tpy)
Aircraft	4.86	1.90	1.18
Trains	224.69	11.17	3.57
Recreational Boats	0.00	6.21	0.00
Off-Road Recreational Vehicles	0.04	8.48	0.01
Off-Road Equipment	226.98	119.96	12.89
Farm Equipment	9.01	1.85	0.52
Fuel Storage and Handling	0.00	17.68	0.00
Total	465.58	167.26	18.17

Summary of Mobile Source Emissions

Table 6 below summarizes total 2017 off-road and on-road mobile source emissions

Table 6: Year 2017 Mobile Source Emissions Summary

Mobile Source Categories	NOx (tpy)	VOC (tpy)	PM2.5 (tpy)
On-Road Mobile Sources	1100.15	360.18	47.97
Off-Road Mobile Sources	465.58	167.26	18.17
Total	1565.72	527.44	66.14

Forecasting Emissions - Mobile Sources

Projections for mobile source emissions are generated by models that predict activity rates and vehicle fleet turnover by vehicle model year. As with stationary sources, the mobile source models include control algorithms that account for all adopted regulatory actions. The Tables below, summarizes the data used to forecast future-year mobile source emissions by broad source category groupings.

Tables 7 and 8 below summarize the total forecasted on-road emissions in the South Central Fresno Community for the years 2024 and 2029:

Table 7: Year 2024 Projected On-Road Mobile Source Emissions

On-Road Mobile Source Categories	NOx (tpy)	VOC (tpy)	PM2.5 (tpy)
Heavy Duty Vehicles	356.38	7.88	6.90
Medium Duty Vehicles	118.74	16.38	4.32
Light Duty Vehicles	108.41	190.82	24.71
Total	583.53	215.08	35.93

Table 8: Year 2029 Projected On-Road Mobile Source Emissions

On-Road Mobile Source Categories	NOx (tpy)	VOC (tpy)	PM2.5 (tpy)
Heavy Duty Vehicles	363.48	8.24	7.23
Medium Duty Vehicles	100.54	13.47	4.15
Light Duty Vehicles	76.32	157.98	25.72
Total	540.34	179.69	37.10

Tables 9 and 10 below summarize the total forecasted off-road emissions in the South Central Fresno Community for the years 2024 and 2029:

Table 9: Year 2024 Projected Off-Road Mobile Source Emissions

Off-Road Mobile Source Categories	NOx (tpy)	VOC (tpy)	PM2.5 (tpy)
Aircraft	5.26	2.05	1.24
Trains	189.24	8.72	2.81
Recreational Boats	0.00	5.13	0.00
Off-Road Recreational Vehicles	0.05	7.32	0.01
Off-Road Equipment	169.79	110.59	8.56
Farm Equipment	6.16	1.28	0.37
Fuel Storage and Handling	0.00	14.73	0.00
Total	370.51	149.83	12.99

Table 10: Year 2029 Projected Off-Road Mobile Source Emissions

Off-Road Mobile Source Categories	NOx (tpy)	VOC (tpy)	PM2.5 (tpy)
Aircraft	5.54	2.15	1.29
Trains	163.68	7.53	2.42
Recreational Boats	0.00	4.50	0.00
Off-Road Recreational Vehicles	0.06	6.45	0.01
Off-Road Equipment	143.24	110.15	7.10
Farm Equipment	4.61	1.03	0.28
Fuel Storage and Handling	0.00	13.77	0.00
Total	317.12	145.57	11.09

AREA-WIDE SOURCES EMISSIONS INVENTORY

Area-wide sources are categories such as consumer products, unpaved road dust, fireplaces, and prescribed burning for which emissions occur over a wide geographic area. Emissions for these categories are estimated by both ARB and the local air districts using various models and methodologies. A summary of the area-wide sources is presented below:

Ammonia Emissions from Publicly Owned Treatment Works, Landfills, Composting, Fertilizer Application, Domestic Activity, Native Animals, and Native Soils

ARB staff updated the ammonia emissions inventory methodology for publicly owned treatment works, landfills, composting, fertilizer application, domestic activity, native animals, and native soils. Revisions for these categories consist primarily of updated activity data for the 2008 calendar year. Emission factors were revised only for fertilizer application.

Ammonia Emissions, Miscellaneous Sources

Ammonia emissions from miscellaneous domestic processes (human respiration and perspiration, smoking, pets, untreated human waste, etc.) were grown from a 2005 ARB estimate using DOF population projections. Ammonia emissions for other categories such as residential wood combustion, livestock husbandry, managed burning, and on-road motor vehicles, were estimated as part of the methodologies for those specific area source categories.

Consumer Products

The consumer products category reflects the four most recent surveys conducted by ARB staff for the years 2003, 2006, 2008, and 2010. Together these surveys collected updated product information and ingredient information for approximately 350 product categories. Based on the survey data, ARB staff determined the total product sales and total VOC emissions for the various product categories. The growth trend for most consumer product subcategories is based on the latest DOF population growth projections, except for aerosol coatings. Staff determined that a no-growth profile would be more appropriate for aerosol coatings based on survey data that show relatively flat sales of these products over the last decade.

Additional information on ARB's consumer products surveys is available at:
<https://www.arb.ca.gov/consprod/survey/survey.htm>.

Architectural Coatings

The architectural coatings category reflects emission estimates based on a comprehensive ARB survey for the 2004 calendar year. The emission estimates include benefits of the 2000 and 2007 ARB Suggested Control Measures as adopted in District Rule 4601. These emissions are grown based on DOF population projections.

Additional information about ARB's architectural coatings program is available at:
<https://www.arb.ca.gov/coatings/arch/arch.htm>.

Pesticides

DPR develops month-specific emission estimates for agricultural and structural pesticides. Each calendar year, DPR updates the inventory based on the Pesticide Use Report, which provides updated information from 1990 to the most current data year available. The inventory includes estimates through the 2014 calendar year. Emission forecasts for years 2015 and beyond are based on the average of the most recent five years. Growth for agricultural pesticides is based on ARB projections of FMMP farmland acreage. Growth for structural pesticides is based on REMI forecasts of expenditures on structures.

Asphalt Paving/Roofing

Asphalt paving emissions were grown from 2008 estimates and asphalt roofing emissions were grown from a 2007 estimate. Emissions for both categories were developed using District methodologies. Emissions are estimated based on tons of asphalt applied and a default emission factor for each type of asphalt operation. The growth profile for both categories is based on ARB's REMI county economic forecasting model. The inventory reflects the reductions from District Rule 4641.

Additional information on the asphalt paving methodology is available at:
<https://www.arb.ca.gov/ei/areasrc/districtmeth/sjvalley/sjvasphpav.pdf>
http://www.valleyair.org/Air_Quality_Plans/EmissionsMethods/MethodForms/Current/AsphaltPaving2008.pdf.

Residential Wood Combustion

Emissions were estimated for 2012 using a 2016 District methodology. The methodology is based on ARB's 2011 methodology, with several refinements based on a 2014 District survey. The inventory reflects the regional distribution and use of wood burning devices, refined fuel usage rates for several types of devices, and emissions reductions from the District's Burn Cleaner Program. The emissions estimates reflect emission factors from U.S. EPA's National Emission Inventory. No growth is assumed for future years because of limits in new construction and the stringency of the requirements of District Rule 4901. The reduction benefits of Rule 4901 are reflected in the inventory.

Additional information on the Residential Wood Combustion methodology is available at:
<https://www.arb.ca.gov/ei/areasrc/arbmiscprocrsfuelcom.htm>.

Residential Natural Gas Combustion

The inventory for residential natural gas combustion is based on 2006 data provided by the District. Emissions are estimated based on the percentages of total natural gas consumed by various residential uses (space heating, water heating, cooking, other) obtained from the CEC and U.S. EPA AP-42 emission factors. Emissions were grown from 2006 using CEC projections of natural gas consumption. The water heating inventory reflects the emission reductions from District Rule 4902.

Additional information on the Residential Natural Gas Combustion methodology is

available at:

http://www.valleyair.org/Air_Quality_Plans/EmissionsMethods/MethodForms/Current/ResidentialNG2006.pdf.

Farming Operations

Emissions for Agricultural Land Preparation Operations and Agricultural Harvest Operations were updated based on 2012 harvested crop acreage from the USDA's National Agricultural Statistics Service (NASS). NASS data are based on reports compiled by County Agricultural Commissioner staff. Emission estimates for both categories are based on ARB methodologies and reflect crop and operation specific emission factors. Temporal profiles were updated based on crop specific activity profiles. Activity profiles for land preparation operations were developed by ARB, based on monthly harvesting activity for 20 representative crops. Temporal profiles for harvesting operations were developed by the District, based on monthly harvesting activity for 46 representative crops. The District expanded the number of crop profiles to more completely characterize distinctions among groups of crops.

Activity profiles for harvesting were developed by the District and reflect refinements to Harvesting Growth is based on projected FMMP farmland acreage for 2010-2020, which results in a slight annual decline. The inventory reflects the emission reductions from District Rule 4550.

Additional information on Farming Operations methodologies is available at:
<https://www.arb.ca.gov/ei/areasrc/arbmiscprocrsfarmop.htm>.

The dairy, feedlot, and range cattle emission estimates reflect livestock population data from the USDA's 2012 Census of Agriculture and emission factors for dairy support cattle provided by District staff. The emission estimates for other livestock categories are based on the USDA's 2007 Census of Agriculture. A seasonal adjustment was added to account for the suppression of dust emissions in months in which rainfall occurs. Dairy emissions growth assumptions were set to no-growth based on an analysis of the SJV historical dairy cow population, which shows a relatively flat profile since 2007. No growth is assumed for other livestock categories, based on an analysis of livestock population trends. The emissions reflect updated District control profiles to account for control requirements, including VOC controls from District Rule 4570 and fugitive dust controls from District Rule 4550.

Additional information on Livestock Operation methodology is available at:
<https://www.arb.ca.gov/ei/areasrc/arbmiscproclivestock.htm>.

Construction and Demolition

Emission estimates for building construction and road construction operations are based on ARB methodologies. Emissions are estimated by applying emission factors developed by Midwest Research Institute (MRI) to the acreage disturbed by construction. The emission estimates were grown from ARB estimates developed in 2002 and 1997, respectively. The growth profile for building construction is based on the REMI county economic forecast model. Road construction emissions are

grown based on road construction forecasts by SJV transportation planning agencies (TPAs). The inventory reflects emission reductions from District Regulation VIII.

Additional information on Construction and Demolition methodology is available at: <https://www.arb.ca.gov/ei/areasrc/arbmiscproconstdem.htm>.

Paved Road Dust

Paved road dust emissions for 2012 were estimated using an ARB methodology consistent with the current U.S. EPA AP-42 methodology (January 2011) for quantifying dust emissions. Revisions include California-specific reductions in silt loading values, updated 2012 vehicle miles traveled (VMT) provided by SJV MPOs, updated VMT distributions (travel fractions) from Caltrans for the year 2008, and incorporation of precipitation correction factors. Emissions were grown using VMT projections from the SJV MPOs. The inventory also reflects emission reductions from District Regulation VIII.

Additional information on Paved Road Dust methodology is available at: <https://www.arb.ca.gov/ei/areasrc/arbmiscprocpaverddst.htm>.

Unpaved Road Dust - Farm Roads

Emissions for unpaved farm roads were updated based on ARB's methodology and 2012 harvested crop acreage from NASS. Emissions reflect crop specific VMT factors and an updated emission factor of 2.0 lbs PM10/VMT, based on California test data conducted by the University of California, Davis (UC Davis), and the Desert Research Institute (DRI). An updated particle size profile (ARB PM profile #470) was used, which reduces the PM2.5 fraction by about 50%. Temporal profiles were updated based on crop specific activity profiles. Growth is based on projected FMMP farmland acreage for 2010-2020, which results in a slight annual decline. In addition, the inventory reflects the emission reductions from District Rule 4550 and District Regulation VIII.

Additional information on Unpaved Farm Road Dust methodology is available at: <https://www.arb.ca.gov/ei/areasrc/arbmiscprocunpaverddst.htm>.

Unpaved Non-Farm Road Dust

Emissions from unpaved non-farm roads were estimated from 2008 unpaved road data collected from the California Statewide Local Streets and Roads Needs Assessment, Caltrans, and the District. Dust emissions were calculated using the same emission factor (2.00 lbs PM10/VMT) and particle size fraction (ARB PM profile #470) described above for unpaved farm roads, and the addition of a rainfall adjustment factor. Temporal profiles were revised. Staff assumed no growth for this category based on the assumption that existing unpaved roads tend to get paved as vehicle traffic on them increases, which counteracts any additional emissions from new unpaved roads. The inventory includes the emission reduction benefits of District Regulation VIII.

Additional information on Unpaved Non-Farm Road Dust methodology is available at:

<https://www.arb.ca.gov/ei/areasrc/arbmiscprocunpaverddst.htm>.

Fugitive Windblown Dust from Open Areas and Non-pasture Agriculture Lands

Fugitive windblown dust emissions were estimated using ARB's 1997 methodology. The methodology is based on 1993 harvested crop acreage and a wind erosion equation that incorporates climate, soil, and vegetative cover attributes. Emissions for agricultural lands were grown based on projected FMMP farmland acreage for 2010-2020, which results in a slight annual decline. No growth is assumed for non-agricultural lands. The inventory reflects emission reductions from District Regulation VIII.

Additional information on Fugitive Windblown Dust from Open Areas and Non-pasture Agriculture Lands methodology is available at:

<https://www.arb.ca.gov/ei/areasrc/arbmiscprocufugwbdst.htm>.

Windblown Dust from Unpaved Roads and Associated Areas

Emissions for this source category were estimated based on a 1997 ARB methodology reflecting unpaved road mileage and local parameters that affect wind erosion. The estimates assume no growth. The inventory includes the emission reduction benefits of District Regulation VIII.

Additional information on Windblown Dust from Unpaved Roads and Associated Areas methodology is available at:

<https://www.arb.ca.gov/ei/areasrc/arbmiscprocufugwbdst.htm>.

Structural and Automobile Fires

Emissions from structural and automobile fires were estimated using ARB's 1999 methodology. Structural fire emissions are based on rates of structural and content material loss per fire, average combustible content, and emission factors obtained from test data. Automobile fire emissions are based on the number of vehicle fires per year and composite emission factors derived from AP-42 emission factors. No growth is assumed for this category.

Additional information on Structural and Automobile Fires methodology is available at:

<https://www.arb.ca.gov/ei/areasrc/arbmiscprocfires.htm>.

Managed Burning & Disposal

ARB updated the emissions inventory to reflect burn data reported by District staff for 2012. Emissions are calculated using crop specific emission factors and fuel loadings. Temporal profiles reflect monthly burn activity. Growth for agricultural burning is based on linear regression analyses of 2000-2009 FMMP farmland acreage. Staff used a no-growth assumption for forest management emissions based on analyses of District reported data that don't show a discernible trend. No-growth was also used for burning associated with weed abatement as the emission levels for this category have been fairly stable since 2005. The inventory includes the benefits of reductions from District Rules 4103 and 4550.

Additional information on Managed Burning & Disposal methodology is available at:

<https://www.arb.ca.gov/ei/areasrc/distmiscprocwstburndis.htm>.

Additional background information is available at:

<https://www.arb.ca.gov/ei/see/see.htm>.

Commercial Cooking

The commercial cooking inventory is based on emissions data reported by the District for 2008. The emissions estimates were developed from the number of restaurants, the number and types of cooking equipment, the food type, and default emission factors from U.S. EPA's 2002 National Emissions Inventory. The growth profile reflects the latest population projections provided by the California DOF. The inventory also reflects the emission reductions from District Rule 4692.

Additional information on Commercial Cooking methodology is available at:

<https://www.arb.ca.gov/ei/areasrc/districtmeth/sjvalley/CommercialCooking2006.pdf>.

For additional information on all area source Methodologies and categories visit ARB and Districts Web pages:

- <https://ww3.arb.ca.gov/ei/areasrc/areameth.htm>
- http://www.valleyair.org/Air_Quality_Plans/EmissionsMethods/EmissionsMethods.htm

Table 11 below summarizes the total projected Area Source emissions for each Category in the South Central Fresno Community for 2017:

Table 11: Year 2017 Area Source emissions for South Central Fresno Community

Source Categories	NOx (tpy)	VOC (tpy)	PM2.5 (tpy)
FUEL COMBUSTION	215.14	6.52	5.72
Food and Agricultural Processing	1.92	0.22	0.09
Manufacturing and Industrial	118.90	0.00	1.34
Other (Fuel Combustion)	24.65	1.40	0.57
Service and Commercial	69.66	4.90	3.72
WASTE DISPOSAL	0.00	6.64	0.00
Landfills	0.00	3.88	0.00
Other (Waste Disposal)	0.00	2.76	0.00
Sewage Treatment	0.00	0.00	0.00
CLEANING AND SURFACE COATINGS	0.00	1436.77	0.00
Adhesives and Sealants	0.00	23.12	0.00
Coatings and Related Process Solvents	0.00	138.26	0.00
Degreasing	0.00	71.26	0.00
Laundering	0.00	1.57	0.00
Other (Cleaning and Surface Coatings)	0.00	1126.76	0.00
Printing	0.00	75.80	0.00

PETROLEUM PRODUCTION AND MARKETING	0.00	22.95	0.00
Petroleum Marketing	0.00	22.95	0.00
INDUSTRIAL PROCESSES	0.00	29.46	0.00
Chemical	0.00	24.58	0.00
Food and Agriculture	0.00	4.88	0.00
SOLVENT EVAPORATION	0.00	501.09	0.00
Architectural Coatings and Related Process Solvents	0.00	155.11	0.00
Asphalt Paving / Roofing	0.00	14.73	0.00
Consumer Products	0.00	310.74	0.00
Pesticides / Fertilizers	0.00	20.52	0.00
MISCELLANEOUS PROCESSES	79.44	84.04	153.68
Construction and Demolition	0.00	0.00	12.03
Cooking (Commercial Charbroiling / Frying)	0.00	11.09	70.82
Farming Operations	0.00	42.84	1.94
Fires	0.58	1.98	2.08
Fugitive Windblown Dust	0.00	0.00	4.94
Managed Burning and Disposal	1.24	2.06	2.26
Other (Miscellaneous Processes)	0.00	0.00	0.00
Paved Road Dust	0.00	0.00	34.15
Residential Fuel Combustion	77.62	26.07	24.31
Unpaved Road Dust	0.00	0.00	1.14
Total	294.58	2087.48	159.40

Forecasting Emissions – Area Sources

Emission forecasts are based on growth profiles that in many cases incorporate historical trends up to the base year or beyond. The growth surrogates used to forecast the emissions from these categories are presented below.

Tables 12 and 13 below summarize the total projected area source emissions for each category in the South Central Fresno Community for years 2024 and 2029:

Table 12: Year 2024 Projected Area Source Emissions for South Central Fresno Community

Source Categories	NOx (tpy)	VOC (tpy)	PM2.5 (tpy)
FUEL COMBUSTION	208.82	6.40	5.72
Food and Agricultural Processing	1.39	0.16	0.06
Manufacturing and Industrial	118.45	0.00	1.33
Other (Fuel Combustion)	20.46	1.05	0.42
Service and Commercial	68.52	5.18	3.91
WASTE DISPOSAL	0.00	7.33	0.00

Landfills	0.00	4.28	0.00
Other (Waste Disposal)	0.00	3.05	0.00
Sewage Treatment	0.00	0.00	0.00
CLEANING AND SURFACE COATINGS	0.00	1623.50	0.00
Adhesives and Sealants	0.00	25.05	0.00
Coatings and Related Process Solvents	0.00	158.13	0.00
Degreasing	0.00	80.85	0.00
Laundering	0.00	1.73	0.00
Other (Cleaning and Surface Coatings)	0.00	1276.44	0.00
Printing	0.00	81.30	0.00
PETROLEUM PRODUCTION AND MARKETING	0.00	19.37	0.00
Petroleum Marketing	0.00	19.37	0.00
INDUSTRIAL PROCESSES	0.00	33.81	0.00
Chemical	0.00	28.42	0.00
Food and Agriculture	0.00	5.39	0.00
SOLVENT EVAPORATION	0.00	549.88	0.00
Architectural Coatings and Related Process Solvents	0.00	171.24	0.00
Asphalt Paving / Roofing	0.00	16.97	0.00
Consumer Products	0.00	340.57	0.00
Pesticides / Fertilizers	0.00	21.10	0.00
MISCELLANEOUS PROCESSES	72.79	85.66	165.90
Construction and Demolition	0.00	0.00	12.94
Cooking (Commercial Charbroiling / Frying)	0.00	12.25	78.22
Farming Operations	0.00	42.84	1.91
Fires	0.64	2.19	2.30
Fugitive Windblown Dust	0.00	0.00	4.85
Managed Burning and Disposal	1.22	2.03	2.24
Other (Miscellaneous Processes)	0.00	0.00	0.00
Paved Road Dust	0.00	0.00	37.60
Residential Fuel Combustion	70.93	26.34	24.71
Unpaved Road Dust	0.00	0.00	1.13
Total	281.61	2325.95	171.62

Table 13: Year 2029 Projected Area Source Emissions for South Central Fresno Community

Source Categories	NOx (tpy)	VOC (tpy)	PM2.5 (tpy)
FUEL COMBUSTION	208.82	6.43	5.83
Food and Agricultural Processing	1.06	0.13	0.04
Manufacturing and Industrial	120.88	0.00	1.36

Other (Fuel Combustion)	20.46	1.05	0.42
Service and Commercial	66.42	5.24	4.01
WASTE DISPOSAL	0.00	7.80	0.00
Landfills	0.00	4.56	0.00
Other (Waste Disposal)	0.00	3.24	0.00
Sewage Treatment	0.00	0.00	0.00
CLEANING AND SURFACE COATINGS	0.00	1866.51	0.00
Adhesives and Sealants	0.00	26.29	0.00
Coatings and Related Process Solvents	0.00	181.67	0.00
Degreasing	0.00	93.59	0.00
Laundering	0.00	1.84	0.00
Other (Cleaning and Surface Coatings)	0.00	1478.10	0.00
Printing	0.00	85.02	0.00
PETROLEUM PRODUCTION AND MARKETING	0.00	17.36	0.00
Petroleum Marketing	0.00	17.36	0.00
INDUSTRIAL PROCESSES	0.00	37.82	0.00
Chemical	0.00	32.06	0.00
Food and Agriculture	0.00	5.75	0.00
SOLVENT EVAPORATION	0.00	582.98	0.00
Architectural Coatings and Related Process Solvents	0.00	182.18	0.00
Asphalt Paving / Roofing	0.00	18.42	0.00
Consumer Products	0.00	360.66	0.00
Pesticides / Fertilizers	0.00	21.72	0.00
MISCELLANEOUS PROCESSES	69.00	86.61	174.32
Construction and Demolition	0.00	0.00	13.93
Cooking (Commercial Charbroiling / Frying)	0.00	13.03	83.17
Farming Operations	0.00	42.84	1.89
Fires	0.68	2.32	2.44
Fugitive Windblown Dust	0.00	0.00	4.79
Managed Burning and Disposal	1.20	2.01	2.22
Other (Miscellaneous Processes)	0.00	0.00	0.00
Paved Road Dust	0.00	0.00	39.96
Residential Fuel Combustion	67.11	26.41	24.80
Unpaved Road Dust	0.00	0.00	1.12
Total	277.82	2605.50	180.14