

Appendix 2 - Nonattainment-Area Tables

Sacramento Metro NAA

Table A2-1-1. Total unadjusted emissions in the Sacramento Metro NAA.

Year	Unadjusted Emissions (tpd)	Change (tpd)	Percent Change
2024	1.466	0.014	<1%
2023	1.452	-0.052	-3%
2022	1.503	0.172	13%
2021	1.331	-0.062	-4%
2020	1.393	-0.075	-5%
2019	1.467	-0.130	-8%
2018	1.597	0.123	8%
2017	1.474	0.028	2%
2016	1.446	0.105	8%
2015	1.341	-0.621	-32%
2014	1.962	0.658	50%
2013	1.304	-0.180	-12%
2012	1.483	0.377	34%
2011	1.106	0.042	4%
2010	1.064	-0.075	-7%
2009	1.139	0.058	5%
2008	1.081	-0.153	-12%
2007	1.234	-0.273	-18%
2006	1.507	0.201	15%
2005	1.306	-0.004	>-1%
2004	1.310	-0.241	-16%
1990	2.861		

Table A2-1-2. Total adjusted emissions in the Sacramento Metro NAA.

Year	Emissions (tpd)	Change (tpd)	Percent Change
2024	1.332	-0.046	-3%
2023	1.378	0.261	23%
2022	1.118	0.034	3%
2021	1.084	-0.109	-9%
2020	1.193	0.007	<1%
2019	1.186	-0.061	-5%
2018	1.247	-0.053	-4%
2017	1.300	-0.016	-1%
2016	1.316	0.124	10%
2015	1.192	-0.140	-11%
2014	1.332	0.157	13%
2013	1.175	-0.129	-10%
2012	1.303	0.299	30%
2011	1.004	0.024	2%
2010	0.980	0.071	8%
2009	0.910	0.007	<1%
2008	0.903	-0.138	-13%
2007	1.041	-0.314	-23%
2006	1.354	0.115	9%
2005	1.239	0.004	<1%
2004	1.235		
1990	2.784		

Table A2-1-3. Fumigant and nonfumigant emissions in the Sacramento Metro NAA.

Year	Category	Emissions (tpd)	Percent of Total Emissions	Change (tpd)	Percent Change
2024	Fumigant	0.058	4%	0.021	56%
2024	Nonfumigant	1.274	96%	-0.067	-5%
2023	Fumigant	0.037	3%	-0.169	-82%
2023	Nonfumigant	1.341	97%	0.430	47%
2022	Fumigant	0.206	18%	0.083	67%
2022	Nonfumigant	0.912	82%	-0.049	-5%
2021	Fumigant	0.123	11%	-0.009	-7%
2021	Nonfumigant	0.961	89%	-0.100	-9%
2020	Fumigant	0.132	11%	-0.020	-13%
2020	Nonfumigant	1.060	89%	0.027	3%
2019	Fumigant	0.152	13%	-0.041	-21%
2019	Nonfumigant	1.034	87%	-0.020	-2%
2018	Fumigant	0.193	15%	0.048	33%
2018	Nonfumigant	1.054	85%	-0.101	-9%
2017	Fumigant	0.145	11%	0.039	37%
2017	Nonfumigant	1.155	89%	-0.055	-5%
2016	Fumigant	0.106	8%	0.009	9%
2016	Nonfumigant	1.209	92%	0.115	11%
2015	Fumigant	0.098	8%	-0.148	-60%
2015	Nonfumigant	1.094	92%	0.008	<1%
2014	Fumigant	0.246	18%	0.177	259%
2014	Nonfumigant	1.086	82%	-0.020	-2%
2013	Fumigant	0.068	6%	-0.014	-17%
2013	Nonfumigant	1.106	94%	-0.114	-9%
2012	Fumigant	0.083	6%	0.022	36%

Year	Category	Emissions (tpd)	Percent of Total Emissions	Change (tpd)	Percent Change
2012	Nonfumigant	1.221	94%	0.277	29%
2011	Fumigant	0.061	6%	-0.036	-37%
2011	Nonfumigant	0.944	94%	0.061	7%
2010	Fumigant	0.097	10%	-0.037	-27%
2010	Nonfumigant	0.883	90%	0.107	14%
2009	Fumigant	0.134	15%	0.070	108%
2009	Nonfumigant	0.775	85%	-0.063	-7%
2008	Fumigant	0.064	7%	-0.125	-66%
2008	Nonfumigant	0.838	93%	-0.013	-2%
2007	Fumigant	0.189	18%	0.027	17%
2007	Nonfumigant	0.851	82%	-0.341	-29%
2006	Fumigant	0.162	12%	0.077	91%
2006	Nonfumigant	1.192	88%	0.038	3%
2005	Fumigant	0.085	7%	-0.026	-24%
2005	Nonfumigant	1.154	93%	0.030	3%
2004	Fumigant	0.111	9%		
2004	Nonfumigant	1.124	91%		
1990	Fumigant	0.384	14%		
1990	Nonfumigant	2.400	86%		

Table A2-1-4. Fumigant formulation emissions in the Sacramento Metro NAA.

Formulation	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
PRESSURIZED GAS (DRY)	0.031	2%	54%	0.006	26%
LIQUID CONCENTRATE	0.023	2%	39%	0.014	148%
PRESSURIZED GAS	0.002	<1%	4%	0.001	108%
SOLUTION/LIQUID (READY-TO-USE)	0.002	<1%	3%	>-0.001	-14%
GRANULAR/FLAKE	<0.001	<1%	<1%	<0.001	

Table A2-1-5. Top 10 nonfumigant formulation emissions in the Sacramento Metro NAA.

Formulation	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
EMULSIFIABLE CONCENTRATE	0.570	43%	45%	-0.032	-5%
LIQUID CONCENTRATE	0.214	16%	17%	0.012	6%
FLOWABLE CONCENTRATE	0.161	12%	13%	-0.012	-7%
GRANULAR/FLAKE	0.145	11%	11%	-0.026	-15%
SUSPENSION	0.056	4%	4%	-0.018	-25%
SOLUTION/LIQUID (READY-TO-USE)	0.046	3%	4%	0.010	28%
PELLET/TABLET/CAKE/BRIQUET	0.041	3%	3%	-0.002	-5%
PRESSURIZED LIQUID/SPRAYS/FOGGERS	0.019	1%	1%	0.003	17%
OIL	0.007	<1%	<1%	-0.002	-20%
DRY FLOWABLE	0.005	<1%	<1%	<0.001	14%

Table A2-1-6. Fumigant primary AI emissions in the Sacramento Metro NAA.

Primary AI	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
1,3-DICHLOROPROPENE	0.021	2%	36%	0.015	237%
METHYL BROMIDE	0.018	1%	31%	-0.002	-10%
CHLOROPICRIN	0.014	1%	24%	0.008	151%
INERTS	0.003	<1%	6%	0.003	346%
METAM-SODIUM	0.002	<1%	3%	>-0.001	-12%

Table A2-1-7. Top 10 nonfumigant primary AI emissions in the Sacramento Metro NAA.

Primary AI	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
PROPANIL	0.144	11%	11%	0.019	16%
PERMETHRIN	0.139	10%	11%	0.014	11%
BIFENTHRIN	0.082	6%	6%	-0.001	-2%
GLUFOSINATE-AMMONIUM	0.072	5%	6%	0.015	26%
CLETHODIM	0.055	4%	4%	0.010	22%
GLYPHOSATE, POTASSIUM SALT	0.042	3%	3%	0.017	68%
GLYPHOSATE, ISOPROPYLAMINE SALT	0.039	3%	3%	-0.018	-32%
OXYFLUORFEN	0.037	3%	3%	-0.015	-29%
HEXYTHIAZOX	0.036	3%	3%	0.006	20%
THIOBENCARB	0.033	3%	3%	-0.024	-42%

Table A2-1-8. Top 10 fumigant commodity emissions in the Sacramento Metro NAA.

Commodity	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
UNCULTIVATED AGRICULTURAL AREAS (ALL OR UNSPEC)	0.036	3%	62%	0.035	2,735%
SOIL APPLICATION, PREPLANT-OUTDOOR (SEEDBEDS, ETC.)	0.013	<1%	22%	-0.006	-34%
STRAWBERRY (ALL OR UNSPEC)	0.003	<1%	5%	<0.001	51%
COMMODITY FUMIGATION	0.002	<1%	4%	0.002	362%
RIGHTS OF WAY	0.002	<1%	3%	>-0.001	-14%
FUMIGATION, OTHER	0.001	<1%	2%	<0.001	223%
RICE (ALL OR UNSPEC)	<0.001	<1%	1%	>-0.001	>-1%
ALMOND	<0.001	<1%	<1%	-0.004	-95%
STRUCTURAL PEST CONTROL	<0.001	<1%	<1%	<0.001	20,847%
WALNUT (ENGLISH WALNUT, PERSIAN WALNUT)	<0.001	<1%	<1%	-0.006	<-99%

Table A2-1-9. Top 10 nonfumigant commodity emissions in the Sacramento Metro NAA.

Commodity	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
RICE (ALL OR UNSPEC)	0.308	23%	24%	-0.030	-9%
STRUCTURAL PEST CONTROL	0.216	16%	17%	0.025	13%
ALMOND	0.172	13%	13%	0.023	16%
TOMATOES, FOR PROCESSING/CANNING	0.116	9%	9%	-0.036	-24%
GRAPES, WINE	0.082	6%	6%	-0.036	-31%
WALNUT (ENGLISH WALNUT, PERSIAN WALNUT)	0.068	5%	5%	0.004	6%
LANDSCAPE MAINTENANCE	0.056	4%	4%	0.009	19%
PISTACHIO (PISTACHE NUT)	0.037	3%	3%	0.003	8%
ALFALFA (FORAGE-FODDER) (ALFALFA HAY)	0.034	3%	3%	0.003	10%
RIGHTS OF WAY	0.033	2%	3%	-0.003	-7%

Table A2-1-10. Unadjusted emissions in the Sacramento Metro NAA during 2024, using the CEIDARS classifications.

Application Type	AI	Emissions (tpd)
Structural	Non-Methyl Bromide	0.216
Structural	Methyl Bromide	0.000
Agricultural	Non-Methyl Bromide	1.211
Agricultural	Methyl Bromide	0.038

San Joaquin Valley NAA

Table A2-2-1. Total unadjusted emissions in the San Joaquin Valley NAA.

Year	Unadjusted Emissions (tpd)	Change (tpd)	Percent Change
2024	21.417	-0.392	-2%
2023	21.809	2.669	14%
2022	19.140	-1.912	-9%
2021	21.052	-2.764	-12%
2020	23.816	-2.729	-10%
2019	26.545	0.234	<1%
2018	26.311	-1.137	-4%
2017	27.448	1.311	5%
2016	26.137	-0.391	-1%
2015	26.528	0.073	<1%
2014	26.455	-3.715	-12%
2013	30.170	2.545	9%
2012	27.625	1.134	4%
2011	26.491	2.019	8%
2010	24.472	3.466	17%
2009	21.005	-2.843	-12%
2008	23.849	-0.871	-4%
2007	24.720	-4.812	-16%
2006	29.532	0.302	1%
2005	29.230	4.057	16%
2004	25.173	0.785	3%
1990	22.472		

Table A2-2-2. Total adjusted emissions in the San Joaquin Valley NAA.

Year	Emissions (tpd)	Change (tpd)	Percent Change
2024	15.607	0.558	4%
2023	15.049	2.332	18%
2022	12.716	-0.457	-3%
2021	13.174	-1.912	-13%
2020	15.085	-0.980	-6%
2019	16.066	-0.097	>-1%
2018	16.163	-0.841	-5%
2017	17.004	1.621	11%
2016	15.383	0.014	<1%
2015	15.368	-1.447	-9%
2014	16.815	-2.705	-14%
2013	19.520	2.599	15%
2012	16.921	0.545	3%
2011	16.376	1.148	8%
2010	15.228	2.263	17%
2009	12.965	-1.560	-11%
2008	14.525	-2.569	-15%
2007	17.093	-4.212	-20%
2006	21.305	0.565	3%
2005	20.740	3.418	20%
2004	17.322		
1990	20.517		

Table A2-2-3. Fumigant and nonfumigant emissions in the San Joaquin Valley NAA.

Year	Category	Emissions (tpd)	Percent of Total Emissions	Change (tpd)	Percent Change
2024	Fumigant	1.949	12%	-0.742	-28%
2024	Nonfumigant	13.658	88%	1.300	11%
2023	Fumigant	2.691	18%	0.262	11%
2023	Nonfumigant	12.358	82%	2.070	20%
2022	Fumigant	2.428	19%	-0.807	-25%
2022	Nonfumigant	10.288	81%	0.349	4%
2021	Fumigant	3.235	25%	-0.816	-20%
2021	Nonfumigant	9.939	75%	-1.096	-10%
2020	Fumigant	4.051	27%	-0.373	-8%
2020	Nonfumigant	11.035	73%	-0.607	-5%
2019	Fumigant	4.424	28%	0.473	12%
2019	Nonfumigant	11.642	72%	-0.570	-5%
2018	Fumigant	3.951	24%	-0.268	-6%
2018	Nonfumigant	12.212	76%	-0.572	-4%
2017	Fumigant	4.219	25%	-0.018	>-1%
2017	Nonfumigant	12.785	75%	1.639	15%
2016	Fumigant	4.237	28%	-0.540	-11%
2016	Nonfumigant	11.146	72%	0.555	5%
2015	Fumigant	4.777	31%	0.752	19%
2015	Nonfumigant	10.591	69%	-2.198	-17%
2014	Fumigant	4.026	24%	-0.327	-8%
2014	Nonfumigant	12.789	76%	-2.378	-16%
2013	Fumigant	4.353	22%	0.088	2%
2013	Nonfumigant	15.167	78%	2.512	20%
2012	Fumigant	4.265	25%	0.264	7%

Year	Category	Emissions (tpd)	Percent of Total Emissions	Change (tpd)	Percent Change
2012	Nonfumigant	12.656	75%	0.281	2%
2011	Fumigant	4.001	24%	0.302	8%
2011	Nonfumigant	12.375	76%	0.847	7%
2010	Fumigant	3.700	24%	0.621	20%
2010	Nonfumigant	11.528	76%	1.641	17%
2009	Fumigant	3.078	24%	-0.292	-9%
2009	Nonfumigant	9.887	76%	-1.267	-11%
2008	Fumigant	3.370	23%	-2.753	-45%
2008	Nonfumigant	11.154	77%	0.184	2%
2007	Fumigant	6.123	36%	-0.685	-10%
2007	Nonfumigant	10.970	64%	-3.528	-24%
2006	Fumigant	6.808	32%	-0.102	-1%
2006	Nonfumigant	14.498	68%	0.667	5%
2005	Fumigant	6.910	33%	0.547	9%
2005	Nonfumigant	13.831	67%	2.871	26%
2004	Fumigant	6.362	37%		
2004	Nonfumigant	10.960	63%		
1990	Fumigant	5.536	27%		
1990	Nonfumigant	14.981	73%		

Table A2-2-4. Fumigant formulation emissions in the San Joaquin Valley NAA.

Formulation	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
LIQUID CONCENTRATE	1.086	7%	56%	-0.615	-36%
PRESSURIZED GAS (DRY)	0.696	4%	36%	-0.120	-15%
EMULSIFIABLE CONCENTRATE	0.095	<1%	5%	0.020	27%
PRESSURIZED LIQUID/SPRAYS/FOGGERS	0.048	<1%	2%	>-0.001	-1%
PRESSURIZED GAS	0.014	<1%	<1%	-0.035	-72%
SOLUTION/LIQUID (READY-TO-USE)	0.010	<1%	<1%	0.008	329%
PELLET/TABLET/CAKE/BRIQUET	<0.001	<1%	<1%	<0.001	

Table A2-2-5. Top 10 nonfumigant formulation emissions in the San Joaquin Valley NAA.

Formulation	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
EMULSIFIABLE CONCENTRATE	6.756	43%	49%	0.877	15%
LIQUID CONCENTRATE	3.200	21%	23%	0.079	3%
FLOWABLE CONCENTRATE	0.959	6%	7%	0.384	67%
GRANULAR/FLAKE	0.612	4%	4%	-0.049	-7%
OIL	0.575	4%	4%	0.026	5%
SUSPENSION	0.536	3%	4%	-0.092	-15%
OTHER (LIQUID)	0.524	3%	4%	0.136	35%
PRESSURIZED LIQUID/SPRAYS/FOGGERS	0.133	<1%	<1%	-0.020	-13%
DUST/POWDER	0.129	<1%	<1%	0.011	9%
PELLET/TABLET/CAKE/BRIQUET	0.115	<1%	<1%	-0.016	-12%

Table A2-2-6. Fumigant primary AI emissions in the San Joaquin Valley NAA.

Primary AI	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
1,3-DICHLOROPROPENE	0.685	4%	35%	-0.527	-44%
METHYL BROMIDE	0.437	3%	22%	-0.046	-9%
CHLOROPICRIN	0.265	2%	14%	-0.105	-28%
POTASSIUM N-METHYLDITHIOCARBAMATE	0.242	2%	12%	-0.074	-23%
METAM-SODIUM	0.218	1%	11%	0.036	19%
INERTS	0.102	<1%	5%	-0.025	-20%
DAZOMET	<0.001	<1%	<1%	<0.001	

Table A2-2-7. Top 10 nonfumigant primary AI emissions in the San Joaquin Valley NAA.

Primary AI	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
GLUFOSINATE-AMMONIUM	1.474	9%	11%	0.269	22%
BIFENTHRIN	0.829	5%	6%	0.102	14%
ETOXAZOLE	0.810	5%	6%	0.225	38%
GLYPHOSATE, ISOPROPYLAMINE SALT	0.809	5%	6%	-0.120	-13%
GLYPHOSATE, POTASSIUM SALT	0.761	5%	6%	0.189	33%
AFIDOPYROPEN	0.585	4%	4%	0.515	736%
MINERAL OIL	0.569	4%	4%	0.024	4%
ABAMECTIN	0.514	3%	4%	0.082	19%
OXYFLUORFEN	0.481	3%	4%	-0.014	-3%
CLETHODIM	0.447	3%	3%	0.021	5%

Table A2-2-8. Top 10 fumigant commodity emissions in the San Joaquin Valley NAA.

Commodity	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
ALMOND	0.486	3%	25%	-0.172	-26%
CARROTS, GENERAL	0.351	2%	18%	0.005	1%
N-OUTDR GRWN TRNSPLNT/PRPGTV MTRL	0.163	1%	8%	-0.036	-18%
N-OUTDR CONTAINER/FLD GRWN PLANTS	0.127	<1%	7%	-0.057	-31%
PEACH	0.091	<1%	5%	0.045	99%
FUMIGATION, OTHER	0.081	<1%	4%	0.025	43%
COMMODITY FUMIGATION	0.067	<1%	3%	0.018	36%
POTATO (WHITE, IRISH, RED, RUSSET)	0.062	<1%	3%	0.021	50%
SWEET POTATO	0.056	<1%	3%	-0.115	-67%
CHERRY	0.044	<1%	2%	-0.013	-23%

Table A2-2-9. Top 10 nonfumigant commodity emissions in the San Joaquin Valley NAA.

Commodity	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
ALMOND	4.588	29%	34%	0.530	13%
PISTACHIO (PISTACHE NUT)	1.865	12%	14%	-0.005	>-1%
COTTON, GENERAL	1.541	10%	11%	0.604	65%
ORANGE (ALL OR UNSPEC)	0.959	6%	7%	0.380	66%
CORN (FORAGE-FODDER)	0.791	5%	6%	0.068	9%
GRAPES	0.370	2%	3%	-0.004	-1%
WALNUT (ENGLISH WALNUT, PERSIAN WALNUT)	0.360	2%	3%	-0.003	>-1%
GRAPES, WINE	0.353	2%	3%	-0.018	-5%
TOMATOES, FOR PROCESSING/CANNING	0.343	2%	3%	-0.188	-35%
TANGERINE (MANDARIN, SATSUMA, MURCOTT, ETC.)	0.321	2%	2%	-0.023	-7%

Table A2-2-10. Unadjusted emissions in the San Joaquin Valley NAA during 2024, using the CEIDARS classifications.

Application Type	AI	Emissions (tpd)
Structural	Non-Methyl Bromide	0.204
Structural	Methyl Bromide	0.000
Agricultural	Non-Methyl Bromide	20.400
Agricultural	Methyl Bromide	0.812

Southeast Desert NAA

Table A2-3-1. Total unadjusted emissions in the Southeast Desert NAA.

Year	Unadjusted Emissions (tpd)	Change (tpd)	Percent Change
2024	0.328	-0.880	-73%
2023	1.208	0.514	74%
2022	0.694	0.055	9%
2021	0.639	-0.397	-38%
2020	1.036	0.408	65%
2019	0.628	0.230	58%
2018	0.398	-0.084	-18%
2017	0.483	0.030	7%
2016	0.453	-0.150	-25%
2015	0.603	0.091	18%
2014	0.512	-0.280	-35%
2013	0.792	-0.464	-37%
2012	1.256	0.636	103%
2011	0.619	-0.381	-38%
2010	1.001	0.385	62%
2009	0.616	-0.248	-29%
2008	0.864	-0.410	-32%
2007	1.274	0.303	31%
2006	0.971	-0.159	-14%
2005	1.130	-0.379	-25%
2004	1.509	-0.046	-3%
1990	1.246		

Table A2-3-2. Total adjusted emissions in the Southeast Desert NAA.

Year	Emissions (tpd)	Change (tpd)	Percent Change
2024	0.280	-0.246	-47%
2023	0.526	0.210	66%
2022	0.316	-0.081	-20%
2021	0.397	-0.025	-6%
2020	0.422	0.143	51%
2019	0.279	0.016	6%
2018	0.263	-0.094	-26%
2017	0.357	0.100	39%
2016	0.256	-0.101	-28%
2015	0.357	0.068	24%
2014	0.289	-0.081	-22%
2013	0.370	-0.103	-22%
2012	0.473	0.258	120%
2011	0.215	-0.245	-53%
2010	0.460	0.176	62%
2009	0.284	-0.002	>-1%
2008	0.286	-0.477	-63%
2007	0.762	0.129	20%
2006	0.634	-0.106	-14%
2005	0.740	-0.255	-26%
2004	0.995		
1990	1.153		

Table A2-3-3. Fumigant and nonfumigant emissions in the Southeast Desert NAA.

Year	Category	Emissions (tpd)	Percent of Total Emissions	Change (tpd)	Percent Change
2024	Fumigant	0.025	9%	-0.262	-91%
2024	Nonfumigant	0.255	91%	0.016	7%
2023	Fumigant	0.287	55%	0.203	239%
2023	Nonfumigant	0.239	45%	0.007	3%
2022	Fumigant	0.085	27%	-0.082	-49%
2022	Nonfumigant	0.232	73%	<0.001	<1%
2021	Fumigant	0.167	42%	-0.016	-9%
2021	Nonfumigant	0.231	58%	-0.008	-3%
2020	Fumigant	0.183	43%	0.130	246%
2020	Nonfumigant	0.239	57%	0.012	6%
2019	Fumigant	0.053	19%	0.012	29%
2019	Nonfumigant	0.226	81%	0.004	2%
2018	Fumigant	0.041	16%	-0.064	-61%
2018	Nonfumigant	0.222	84%	-0.029	-12%
2017	Fumigant	0.106	30%	0.033	45%
2017	Nonfumigant	0.251	70%	0.068	37%
2016	Fumigant	0.073	28%	-0.023	-24%
2016	Nonfumigant	0.183	72%	-0.078	-30%
2015	Fumigant	0.095	27%	0.011	13%
2015	Nonfumigant	0.262	73%	0.057	28%
2014	Fumigant	0.085	29%	-0.085	-50%
2014	Nonfumigant	0.204	71%	0.003	2%
2013	Fumigant	0.169	46%	-0.089	-34%
2013	Nonfumigant	0.201	54%	-0.014	-6%
2012	Fumigant	0.258	55%	0.180	231%

Year	Category	Emissions (tpd)	Percent of Total Emissions	Change (tpd)	Percent Change
2012	Nonfumigant	0.215	45%	0.078	57%
2011	Fumigant	0.078	36%	-0.195	-71%
2011	Nonfumigant	0.137	64%	-0.049	-26%
2010	Fumigant	0.273	59%	0.136	99%
2010	Nonfumigant	0.186	41%	0.040	27%
2009	Fumigant	0.137	48%	0.019	16%
2009	Nonfumigant	0.146	52%	-0.020	-12%
2008	Fumigant	0.119	42%	-0.456	-79%
2008	Nonfumigant	0.167	58%	-0.020	-11%
2007	Fumigant	0.575	75%	0.163	39%
2007	Nonfumigant	0.187	25%	-0.034	-15%
2006	Fumigant	0.413	65%	-0.061	-13%
2006	Nonfumigant	0.221	35%	-0.045	-17%
2005	Fumigant	0.474	64%	-0.288	-38%
2005	Nonfumigant	0.266	36%	0.033	14%
2004	Fumigant	0.762	77%		
2004	Nonfumigant	0.233	23%		
1990	Fumigant	0.840	73%		
1990	Nonfumigant	0.313	27%		

Table A2-3-4. Fumigant formulation emissions in the Southeast Desert NAA.

Formulation	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
EMULSIFIABLE CONCENTRATE	0.020	7%	78%	-0.014	-42%
LIQUID CONCENTRATE	0.004	1%	15%	-0.142	-97%
SOLUTION/LIQUID (READY-TO-USE)	0.001	<1%	5%	<0.001	16%
PELLET/TABLET/CAKE/BRIQUET	<0.001	<1%	2%	>-0.001	-18%

Table A2-3-5. Top 10 nonfumigant formulation emissions in the Southeast Desert NAA.

Formulation	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
EMULSIFIABLE CONCENTRATE	0.124	44%	49%	0.027	27%
LIQUID CONCENTRATE	0.053	19%	21%	0.010	24%
DUST/POWDER	0.018	6%	7%	0.008	81%
GRANULAR/FLAKE	0.013	5%	5%	<0.001	<1%
SUSPENSION	0.012	4%	5%	<0.001	6%
PRESSURIZED LIQUID/SPRAYS/FOGGERS	0.011	4%	4%	-0.017	-61%
SOLUTION/LIQUID (READY-TO-USE)	0.008	3%	3%	-0.003	-31%
FLOWABLE CONCENTRATE	0.006	2%	2%	-0.009	-59%
PELLET/TABLET/CAKE/BRIQUET	0.005	2%	2%	0.001	38%
OIL	0.002	<1%	<1%	-0.001	-39%

Table A2-3-6. Fumigant primary AI emissions in the Southeast Desert NAA.

Primary AI	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
METAM-SODIUM	0.025	9%	98%	-0.015	-38%
DAZOMET	<0.001	<1%	2%	>-0.001	-64%

Table A2-3-7. Top 10 nonfumigant primary AI emissions in the Southeast Desert NAA.

Primary AI	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
CAPRYLIC ACID	0.033	12%	13%	0.014	74%
BENSULIDE	0.028	10%	11%	0.006	29%
GLYPHOSATE, ISOPROPYLAMINE SALT	0.019	7%	7%	0.005	33%
KAOLIN	0.015	6%	6%	0.006	60%
EPTC	0.014	5%	5%	0.008	156%
BIFENTHRIN	0.011	4%	4%	0.003	29%
GLYPHOSATE, POTASSIUM SALT	0.009	3%	3%	0.003	59%
DISODIUM OCTABORATE TETRAHYDRATE	0.008	3%	3%	<0.001	15%
MEFENOXAM	0.007	3%	3%	-0.005	-40%
PIPERONYL BUTOXIDE	0.007	2%	3%	-0.014	-68%

Table A2-3-8. Top 10 fumigant commodity emissions in the Southeast Desert NAA.

Commodity	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
PEPPERS (FRUITING VEGETABLE), (BELL, CHILI, ETC.)	0.020	7%	78%	-0.003	-15%
RIGHTS OF WAY	0.005	2%	22%	-0.002	-24%

Table A2-3-9. Top 10 nonfumigant commodity emissions in the Southeast Desert NAA.

Commodity	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
STRUCTURAL PEST CONTROL	0.051	18%	20%	-0.014	-21%
DATE	0.029	10%	11%	0.014	88%
UNCULTIVATED AGRICULTURAL AREAS (ALL OR UNSPEC)	0.029	10%	11%	0.017	135%
LANDSCAPE MAINTENANCE	0.022	8%	9%	<0.001	<1%
LEMON	0.022	8%	8%	0.003	17%
CARROTS, GENERAL	0.019	7%	7%	-0.004	-18%
PEPPERS (FRUITING VEGETABLE), (BELL, CHILI, ETC.)	0.013	4%	5%	0.003	32%
RIGHTS OF WAY	0.013	4%	5%	>-0.001	-7%
LETTUCE, LEAF (ALL OR UNSPEC)	0.008	3%	3%	>-0.001	-2%
MANGO	0.006	2%	2%	-0.001	-16%

Table A2-3-10. Unadjusted emissions in the Southeast Desert NAA during 2024, using the CEIDARS classifications.

Application Type	AI	Emissions (tpd)
Structural	Non-Methyl Bromide	0.051
Structural	Methyl Bromide	0.000
Agricultural	Non-Methyl Bromide	0.277
Agricultural	Methyl Bromide	0.000

Ventura NAA

Table A2-4-1. Total unadjusted emissions in the Ventura NAA.

Year	Unadjusted Emissions (tpd)	Change (tpd)	Percent Change
2024	8.229	0.458	6%
2023	7.771	-0.046	>-1%
2022	7.817	1.070	16%
2021	6.747	0.362	6%
2020	6.385	0.642	11%
2019	5.743	-0.614	-10%
2018	6.357	-0.125	-2%
2017	6.482	-0.265	-4%
2016	6.746	-1.045	-13%
2015	7.792	-0.345	-4%
2014	8.137	-0.106	-1%
2013	8.243	-1.581	-16%
2012	9.824	0.272	3%
2011	9.551	0.231	2%
2010	9.320	2.522	37%
2009	6.798	-0.526	-7%
2008	7.325	-1.761	-19%
2007	9.086	-0.535	-6%
2006	9.621	0.282	3%
2005	9.339	-0.199	-2%
2004	9.538	1.814	23%
1990	4.555		

Table A2-4-2. Total adjusted emissions in the Ventura NAA.

Year	Emissions (tpd)	Change (tpd)	Percent Change
2024	1.163	-0.087	-7%
2023	1.251	-0.006	>-1%
2022	1.257	0.184	17%
2021	1.073	-0.093	-8%
2020	1.166	0.123	12%
2019	1.043	-0.078	-7%
2018	1.121	-0.116	-9%
2017	1.237	-0.127	-9%
2016	1.364	-0.303	-18%
2015	1.668	0.048	3%
2014	1.620	-0.088	-5%
2013	1.707	-1.355	-44%
2012	3.063	0.060	2%
2011	3.003	0.214	8%
2010	2.789	0.615	28%
2009	2.174	0.435	25%
2008	1.739	-1.624	-48%
2007	3.363	-0.320	-9%
2006	3.682	0.066	2%
2005	3.617	-0.308	-8%
2004	3.924		
1990	3.786		

Table A2-4-3. Fumigant and nonfumigant emissions in the Ventura NAA.

Year	Category	Emissions (tpd)	Percent of Total Emissions	Change (tpd)	Percent Change
2024	Fumigant	0.776	67%	-0.070	-8%
2024	Nonfumigant	0.387	33%	-0.018	-4%
2023	Fumigant	0.846	68%	-0.029	-3%
2023	Nonfumigant	0.405	32%	0.023	6%
2022	Fumigant	0.875	70%	0.126	17%
2022	Nonfumigant	0.382	30%	0.058	18%
2021	Fumigant	0.749	70%	-0.030	-4%
2021	Nonfumigant	0.324	30%	-0.063	-16%
2020	Fumigant	0.779	67%	0.088	13%
2020	Nonfumigant	0.386	33%	0.035	10%
2019	Fumigant	0.691	66%	-0.042	-6%
2019	Nonfumigant	0.352	34%	-0.037	-9%
2018	Fumigant	0.733	65%	0.008	1%
2018	Nonfumigant	0.388	35%	-0.124	-24%
2017	Fumigant	0.725	59%	-0.217	-23%
2017	Nonfumigant	0.512	41%	0.090	21%
2016	Fumigant	0.942	69%	-0.269	-22%
2016	Nonfumigant	0.423	31%	-0.034	-7%
2015	Fumigant	1.211	73%	0.023	2%
2015	Nonfumigant	0.457	27%	0.025	6%
2014	Fumigant	1.188	73%	-0.123	-9%
2014	Nonfumigant	0.432	27%	0.036	9%
2013	Fumigant	1.311	77%	-1.370	-51%
2013	Nonfumigant	0.397	23%	0.015	4%
2012	Fumigant	2.681	88%	0.104	4%

Year	Category	Emissions (tpd)	Percent of Total Emissions	Change (tpd)	Percent Change
2012	Nonfumigant	0.382	12%	-0.043	-10%
2011	Fumigant	2.577	86%	0.265	11%
2011	Nonfumigant	0.425	14%	-0.052	-11%
2010	Fumigant	2.312	83%	0.592	34%
2010	Nonfumigant	0.477	17%	0.023	5%
2009	Fumigant	1.720	79%	0.468	37%
2009	Nonfumigant	0.454	21%	-0.033	-7%
2008	Fumigant	1.252	72%	-1.682	-57%
2008	Nonfumigant	0.486	28%	0.059	14%
2007	Fumigant	2.935	87%	-0.240	-8%
2007	Nonfumigant	0.428	13%	-0.080	-16%
2006	Fumigant	3.175	86%	0.056	2%
2006	Nonfumigant	0.508	14%	0.010	2%
2005	Fumigant	3.119	86%	-0.183	-6%
2005	Nonfumigant	0.497	14%	-0.125	-20%
2004	Fumigant	3.302	84%		
2004	Nonfumigant	0.622	16%		
1990	Fumigant	3.140	83%		
1990	Nonfumigant	0.647	17%		

Table A2-4-4. Fumigant formulation emissions in the Ventura NAA.

Formulation	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
PRESSURIZED GAS (DRY)	0.398	34%	51%	-0.072	-15%
LIQUID CONCENTRATE	0.117	10%	15%	0.008	8%
EMULSIFIABLE CONCENTRATE	0.116	10%	15%	-0.053	-31%
PRESSURIZED LIQUID/SPRAYS/FOGGERS	0.081	7%	10%	0.011	15%
PRESSURIZED GAS	0.064	6%	8%	0.038	142%

Table A2-4-5. Top 10 nonfumigant formulation emissions in the Ventura NAA.

Formulation	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
EMULSIFIABLE CONCENTRATE	0.142	12%	37%	0.004	3%
LIQUID CONCENTRATE	0.089	8%	23%	-0.022	-20%
OIL	0.064	6%	17%	0.014	27%
SUSPENSION	0.030	3%	8%	-0.008	-22%
FLOWABLE CONCENTRATE	0.020	2%	5%	<0.001	<1%
GRANULAR/FLAKE	0.018	2%	5%	-0.002	-10%
PELLET/TABLET/CAKE/BRIQUET	0.008	<1%	2%	-0.003	-30%
SOLUTION/LIQUID (READY-TO-USE)	0.005	<1%	1%	<0.001	<1%
PRESSURIZED LIQUID/SPRAYS/FOGGERS	0.004	<1%	1%	<0.001	4%
DUST/POWDER	0.002	<1%	<1%	<0.001	8%

Table A2-4-6. Fumigant primary AI emissions in the Ventura NAA.

Primary AI	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
CHLOROPICRIN	0.379	33%	49%	0.028	8%
INERTS	0.156	13%	20%	-0.103	-40%
1,3-DICHLOROPROPENE	0.120	10%	15%	0.007	6%
POTASSIUM N-METHYLDITHIOCARBAMATE	0.105	9%	14%	0.006	7%
METAM-SODIUM	0.012	1%	2%	-0.008	-40%
METHYL BROMIDE	0.004	<1%	<1%	<0.001	13%
DAZOMET	0.000	0%	0%	0.000	

Table A2-4-7. Top 10 nonfumigant primary AI emissions in the Ventura NAA.

Primary AI	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
MINERAL OIL	0.044	4%	11%	0.008	21%
CLARIFIED HYDROPHOBIC EXTRACT OF NEEM OIL	0.021	2%	5%	0.006	41%
GLYPHOSATE, ISOPROPYLAMINE SALT	0.017	1%	4%	-0.010	-38%
NALED	0.016	1%	4%	0.009	132%
NOVALURON	0.011	<1%	3%	<0.001	2%
BACILLUS AMYLOLIQUEFACENS STRAIN: F727	0.011	<1%	3%	-0.004	-26%
ABAMECTIN	0.010	<1%	3%	0.002	19%
FENPROPATHRIN	0.010	<1%	3%	0.004	78%
GLYPHOSATE, POTASSIUM SALT	0.010	<1%	2%	>-0.001	-5%
PENDIMETHALIN	0.009	<1%	2%	<0.001	12%

Table A2-4-8. Top 10 fumigant commodity emissions in the Ventura NAA.

Commodity	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
STRAWBERRY (ALL OR UNSPEC)	0.754	65%	97%	-0.070	-9%
PEPPERS (FRUITING VEGETABLE), (BELL, CHILI, ETC.)	0.016	1%	2%	<0.001	5%
CILANTRO (CHINESE PARSLEY, CORIANDER LEAVES)	0.002	<1%	<1%	0.002	
FUMIGATION, OTHER	0.002	<1%	<1%	>-0.001	-37%
N-OUTDR GRWN CUT FLWRS OR GREENS	0.001	<1%	<1%	-0.003	-71%
COMMODITY FUMIGATION	<0.001	<1%	<1%	<0.001	572%
POTTING SOIL, (NURSERY AND HOUSEHOLD)	<0.001	<1%	<1%	<0.001	
TOMATO	<0.001	<1%	<1%	>-0.001	-60%

Table A2-4-9. Top 10 nonfumigant commodity emissions in the Ventura NAA.

Commodity	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
STRAWBERRY (ALL OR UNSPEC)	0.075	6%	19%	0.016	26%
LEMON	0.061	5%	16%	-0.003	-5%
PEPPERS (FRUITING VEGETABLE), (BELL, CHILI, ETC.)	0.033	3%	9%	-0.010	-22%
STRUCTURAL PEST CONTROL	0.027	2%	7%	0.001	4%
AVOCADO (ALL OR UNSPEC)	0.024	2%	6%	-0.005	-17%
BLACKBERRY	0.018	2%	5%	-0.006	-23%
RASPBERRY (ALL OR UNSPEC)	0.017	1%	4%	-0.004	-19%
CABBAGE	0.014	1%	4%	>-0.001	>-1%
CELERY, GENERAL	0.014	1%	4%	-0.005	-27%
N-OUTDR CONTAINER/FLD GRWN PLANTS	0.012	1%	3%	<0.001	4%

Table A2-4-10. Unadjusted emissions in the Ventura NAA during 2024, using the CEIDARS classifications.

Application Type	AI	Emissions (tpd)
Structural	Non-Methyl Bromide	0.027
Structural	Methyl Bromide	0.000
Agricultural	Non-Methyl Bromide	8.194
Agricultural	Methyl Bromide	0.008

South Coast NAA

Table A2-5-1. Total unadjusted emissions in the South Coast NAA.

Year	Unadjusted Emissions (tpd)	Change (tpd)	Percent Change
2024	1.171	-0.136	-10%
2023	1.307	0.278	27%
2022	1.029	-0.102	-9%
2021	1.131	0.031	3%
2020	1.100	0.057	6%
2019	1.043	-0.184	-15%
2018	1.227	-0.319	-21%
2017	1.546	0.272	21%
2016	1.274	-0.199	-14%
2015	1.473	0.206	16%
2014	1.267	-0.252	-17%
2013	1.519	-0.147	-9%
2012	1.666	0.291	21%
2011	1.375	-0.637	-32%
2010	2.012	0.390	24%
2009	1.621	-0.351	-18%
2008	1.972	0.014	<1%
2007	1.958	<0.001	<1%
2006	1.958	-0.718	-27%
2005	2.676	0.037	1%
2004	2.638	-0.392	-13%
1990	10.982		

Table A2-5-2. Total adjusted emissions in the South Coast NAA.

Year	Emissions (tpd)	Change (tpd)	Percent Change
2024	1.059	-0.115	-10%
2023	1.173	0.286	32%
2022	0.887	-0.117	-12%
2021	1.004	0.127	14%
2020	0.877	>-0.001	>-1%
2019	0.877	-0.194	-18%
2018	1.071	-0.036	-3%
2017	1.107	0.105	10%
2016	1.002	-0.333	-25%
2015	1.335	0.169	14%
2014	1.167	-0.146	-11%
2013	1.312	-0.062	-4%
2012	1.374	0.253	23%
2011	1.121	-0.618	-36%
2010	1.740	0.500	40%
2009	1.240	-0.044	-3%
2008	1.283	-0.203	-14%
2007	1.487	0.005	<1%
2006	1.482	-0.487	-25%
2005	1.969	0.047	2%
2004	1.922		
1990	10.840		

Table A2-5-3. Fumigant and nonfumigant emissions in the South Coast NAA.

Year	Category	Emissions (tpd)	Percent of Total Emissions	Change (tpd)	Percent Change
2024	Fumigant	0.112	11%	<0.001	<1%
2024	Nonfumigant	0.947	89%	-0.116	-11%
2023	Fumigant	0.111	9%	0.018	20%
2023	Nonfumigant	1.063	91%	0.268	34%
2022	Fumigant	0.093	10%	-0.026	-22%
2022	Nonfumigant	0.794	90%	-0.091	-10%
2021	Fumigant	0.119	12%	0.004	3%
2021	Nonfumigant	0.885	88%	0.123	16%
2020	Fumigant	0.115	13%	<0.001	<1%
2020	Nonfumigant	0.762	87%	-0.001	>-1%
2019	Fumigant	0.115	13%	-0.053	-32%
2019	Nonfumigant	0.763	87%	-0.140	-16%
2018	Fumigant	0.168	16%	-0.022	-12%
2018	Nonfumigant	0.903	84%	-0.013	-1%
2017	Fumigant	0.190	17%	-0.083	-30%
2017	Nonfumigant	0.917	83%	0.188	26%
2016	Fumigant	0.273	27%	0.017	7%
2016	Nonfumigant	0.729	73%	-0.350	-32%
2015	Fumigant	0.257	19%	0.049	23%
2015	Nonfumigant	1.079	81%	0.120	13%
2014	Fumigant	0.208	18%	-0.078	-27%
2014	Nonfumigant	0.959	82%	-0.068	-7%
2013	Fumigant	0.285	22%	-0.095	-25%
2013	Nonfumigant	1.027	78%	0.034	3%
2012	Fumigant	0.381	28%	0.185	95%

Year	Category	Emissions (tpd)	Percent of Total Emissions	Change (tpd)	Percent Change
2012	Nonfumigant	0.993	72%	0.068	7%
2011	Fumigant	0.196	17%	-0.179	-48%
2011	Nonfumigant	0.926	83%	-0.439	-32%
2010	Fumigant	0.375	22%	0.063	20%
2010	Nonfumigant	1.365	78%	0.437	47%
2009	Fumigant	0.312	25%	-0.065	-17%
2009	Nonfumigant	0.927	75%	0.021	2%
2008	Fumigant	0.377	29%	-0.034	-8%
2008	Nonfumigant	0.906	71%	-0.169	-16%
2007	Fumigant	0.411	28%	-0.011	-3%
2007	Nonfumigant	1.075	72%	0.016	1%
2006	Fumigant	0.422	28%	-0.172	-29%
2006	Nonfumigant	1.060	72%	-0.315	-23%
2005	Fumigant	0.594	30%	-0.107	-15%
2005	Nonfumigant	1.375	70%	0.155	13%
2004	Fumigant	0.702	37%		
2004	Nonfumigant	1.220	63%		
1990	Fumigant	9.372	86%		
1990	Nonfumigant	1.468	14%		

Table A2-5-4. Fumigant formulation emissions in the South Coast NAA.

Formulation	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
PRESSURIZED GAS (DRY)	0.072	7%	64%	0.023	48%
LIQUID CONCENTRATE	0.020	2%	18%	-0.005	-22%
PRESSURIZED GAS	0.012	1%	11%	-0.002	-16%
SOLUTION/LIQUID (READY-TO-USE)	0.006	<1%	6%	<0.001	16%
PELLET/TABLET/CAKE/BRIQUET	0.001	<1%	1%	>-0.001	-18%
GRANULAR/FLAKE	<0.001	<1%	<1%	<0.001	940%

Table A2-5-5. Top 10 nonfumigant formulation emissions in the South Coast NAA.

Formulation	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
EMULSIFIABLE CONCENTRATE	0.266	25%	28%	0.006	2%
PRESSURIZED LIQUID/SPRAYS/FOGGERS	0.166	16%	18%	-0.097	-37%
LIQUID CONCENTRATE	0.166	16%	18%	-0.089	-35%
SOLUTION/LIQUID (READY-TO-USE)	0.130	12%	14%	0.053	69%
GRANULAR/FLAKE	0.078	7%	8%	>-0.001	>-1%
PELLET/TABLET/CAKE/BRIQUET	0.057	5%	6%	0.016	38%
SUSPENSION	0.033	3%	3%	-0.001	-4%
FLOWABLE CONCENTRATE	0.021	2%	2%	-0.010	-31%
OTHER (LIQUID)	0.014	1%	1%	0.002	21%
DUST/POWDER	0.009	<1%	<1%	0.008	610%

Table A2-5-6. Fumigant primary AI emissions in the South Coast NAA.

Primary AI	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
METHYL BROMIDE	0.072	7%	64%	0.023	48%
METAM-SODIUM	0.026	2%	23%	-0.005	-15%
1,3-DICHLOROPROPENE	0.005	<1%	5%	-0.014	-73%
CHLOROPICRIN	0.005	<1%	5%	-0.001	-17%
INERTS	0.002	<1%	2%	-0.001	-41%
DAZOMET	0.001	<1%	1%	-0.002	-55%

Table A2-5-7. Top 10 nonfumigant primary AI emissions in the South Coast NAA.

Primary AI	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
PIPERONYL BUTOXIDE	0.156	15%	17%	0.021	15%
DISODIUM OCTABORATE TETRAHYDRATE	0.124	12%	13%	0.068	120%
BIFENTHRIN	0.070	7%	7%	-0.055	-44%
DELTAMETHRIN	0.051	5%	5%	-0.019	-27%
N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE	0.036	3%	4%	-0.004	-10%
PRALLETHRIN	0.030	3%	3%	0.020	188%
FIPRONIL	0.029	3%	3%	0.002	8%
IMIDACLOPRID	0.026	2%	3%	<0.001	4%
TRINEXAPAC-ETHYL	0.025	2%	3%	>-0.001	>-1%
DINOTEFURAN	0.025	2%	3%	0.003	15%

Table A2-5-8. Top 10 fumigant commodity emissions in the South Coast NAA.

Commodity	Emissions (tpd)	Percent of Total Emissions	Percent of Fumigant Emissions	Change (tpd)	Percent Change
FUMIGATION, OTHER	0.047	4%	42%	0.013	38%
RIGHTS OF WAY	0.028	3%	25%	-0.006	-19%
COMMODITY FUMIGATION	0.025	2%	22%	0.011	73%
STRAWBERRY (ALL OR UNSPEC)	0.012	1%	11%	-0.002	-16%
N-OUTDR CONTAINER/FLD GRWN PLANTS	<0.001	<1%	<1%	<0.001	50%

Table A2-5-9. Top 10 nonfumigant commodity emissions in the South Coast NAA.

Commodity	Emissions (tpd)	Percent of Total Emissions	Percent of Nonfumigant Emissions	Change (tpd)	Percent Change
STRUCTURAL PEST CONTROL	0.684	65%	72%	-0.072	-10%
LANDSCAPE MAINTENANCE	0.149	14%	16%	-0.023	-13%
RIGHTS OF WAY	0.043	4%	5%	-0.007	-13%
N-OUTDR CONTAINER/FLD GRWN PLANTS	0.010	<1%	1%	-0.002	-16%
CABBAGE	0.007	<1%	<1%	<0.001	7%
TURF, GOLF COURSE (FAIRWAYS, GREENS, ROUGH)	0.006	<1%	<1%	-0.008	-55%
CHINESE BROCCOLI (WHITE FLOWERING) (GAILON)	0.005	<1%	<1%	>-0.001	-10%
GRAPEFRUIT	0.005	<1%	<1%	-0.001	-19%
ORANGE (ALL OR UNSPEC)	0.003	<1%	<1%	-0.001	-23%
CORN (FORAGE-FODDER)	0.003	<1%	<1%	>-0.001	-12%

Table A2-5-10. Unadjusted emissions in the South Coast NAA during 2024, using the CEIDARS classifications.

Application Type	AI	Emissions (tpd)
Structural	Non-Methyl Bromide	0.684
Structural	Methyl Bromide	0.000
Agricultural	Non-Methyl Bromide	0.415
Agricultural	Methyl Bromide	0.072