



Julie Henderson
Director

April 25, 2024

TO: Interested Parties

SUBJECT: ANNUAL VOLATILE ORGANIC COMPOUND EMISSIONS INVENTORY
REPORT: EMISSIONS FOR 1990-2022

As required under Title 3, California Code of Regulations (3 CCR), section 6881, the Department of Pesticide Regulation (DPR) has completed the draft annual volatile organic compound (VOC) emissions inventory report that includes the following information based on 1990-2022 pesticide use data:

- Total agricultural and structural pesticide VOC emissions for the previous years.
- Evaluation of compliance with benchmarks specified in 3 CCR section 6452.2.
- Comparison of VOC emissions to the State Implementation Plan (SIP) goals for the five ozone nonattainment areas (NAAs) in California.
- Fumigant emission limits for the upcoming year if necessary, according to 3 CCR section 6452.2.
- An emission rating (or application method adjustment factor, the percentage of applied fumigant emitted to air) for each fumigation method.
- If applicable, prohibitions on high-VOC nonfumigant products pursuant to section 6452.2(f), and/or if prohibitions remain in effect pursuant to section 6884(c).
- A list of the nonfumigant products that are designated as low-VOC pursuant to section 6880.
- A list of the actively registered nonfumigant products that are designated as high-VOC pursuant to section 6880.

The SIP goals set forth below and the benchmarks specified in 3 CCR section 6452.2 for each NAA are the same:

- Sacramento Metro NAA – 20 percent reduction from 1990.
- San Joaquin Valley NAA – no greater than 18.1 tons/day, equivalent to a 12 percent reduction from 1990.
- Southeast Desert NAA – 20 percent reduction from 1990.
- South Coast NAA – 20 percent reduction from 1990.
- Ventura NAA – 20 percent from 1990.

Interested Parties
April 25, 2024
Page 2

The 2022 pesticide VOC emissions for all of the five NAAs complied with the SIP goals and VOC regulation benchmarks, ranging from 38 to 92 percent less than emissions in the 1990 base year, depending on the NAA. VOC emissions in the Sacramento Metro NAA increased by 2% from 1.090 tons per day (tpd) in 2021 to 1.116 tpd in 2022 and were 60% lower than the 1990 base year. VOC emissions in the San Joaquin Valley NAA decreased by 3% from 13.107 tpd in 2021 to 12.671 tpd in 2022 and were 38% lower than the 1990 base year. VOC emissions in the Southeast Desert NAA decreased by 21% from 0.395 tpd in 2021 to 0.311 tpd in 2022 and were 73% lower than the 1990 base year. VOC emissions in the Ventura NAA increased by 16% from 1.151 tpd in 2021 to 1.335 tpd in 2022 and were 65% lower than the 1990 base year. VOC emissions in the South Coast NAA decreased by 10% from 0.995 tpd in 2021 to 0.893 tpd in 2022 and were 92% lower than the 1990 base year.

DPR is required to implement additional VOC restrictions if pesticide VOC emissions exceed 95% of the benchmarks specified in 3 CCR section 6452.2. In 2013, the Pesticide VOC emissions in the San Joaquin Valley NAA exceeded the benchmark and the SIP goal, thereby triggering additional restrictions in the San Joaquin Valley NAA on nonfumigant products designated as high-VOC pursuant to section 6880 starting in 2015. Prohibitions on the use of high-VOC products for abamectin, chlorpyrifos, gibberellins, and oxyfluorfen on certain crops in the San Joaquin Valley NAA as specified in 3 CCR 6884 went into place May 1 through October 31, 2015. Prohibition must continue until at least two consecutive years of hypothetical emissions are less than the trigger level. The hypothetical emissions for 2021 and 2022 are less than the trigger level; however, if the drought conditions that were present during these years alleviate, pesticide use and hypothetical emissions could increase and exceed the trigger level. Accordingly, CDPR is maintaining the prohibitions of certain high-VOC nonfumigants in 2024. The nonfumigant prohibitions that went into effect in 2015 remain active in 2024 in the San Joaquin Valley NAA.

If you have any questions or need further assistance, please feel free to contact Maziar Kandelous, Environmental Program Manager I, at (916) 445-0981 or <Maziar.Kandelous@cdpr.ca.gov>.

Sincerely,

Nan Singhasemanon
Assistant Director
916-445-3984

cc: Minh Pham, Environmental Program Manager II (w/Attachments)
cc: Maziar Kandelous, Environmental Program Manager I (w/Attachments)
cc: Aniela Burant, Air Program Supervisor (w/Attachments)