

## Preliminary Methodologies for Determining Fee Emissions for Consumer Products Manufacturers For Fiscal Year 2020-2021

Below is an outline of the methods used to calculate the Fiscal Year (FY) 2020-2021 fees. Additional information on the fee program methods is available at:

<http://www.arb.ca.gov/consprod/regact/feewg/feewg.htm>.

### Data Sources and Growth Metrics

- FY 2020-2021 fees are determined using 2018 volatile organic compound (VOC) emissions.
- California Air Resources Board (CARB) staff determined per-company 2018 VOC emissions using information from the 2015 CARB Consumer and Commercial Products Survey (2015 CP Survey), 2014 CARB Consumer and Commercial Products Survey (2014 CP Survey), and the 2010 CARB Aerosol Coatings and Aerosol Adhesives Products Survey (2010 AC and AA Survey).
- VOC emissions have been adjusted by California population growth. VOC emissions based on the 2010 AC and AA Survey information have been adjusted by an approximate 6.9 percent increase in population in California between 2010 and 2018. VOC emissions based on the 2014 CP Survey information have been adjusted by an approximate 2.7 percent increase in population in California between 2014 and 2018. VOC emissions based on the 2015 CP Survey information have been adjusted by an approximate 2.0 percent increase in population in California between 2015 and 2018. The California Department of Finance is the source for the population data.

Sales Data Year	CA Population Percent Increase Between Sales Year and 2018*
2010	6.9%
2014	2.7%
2015	2.0%

\*The California Department of Finance is the source for the population data.

- An emission fate adjustment (the down-the-drain) factor was applied to a number of surveyed product categories. The down-the-drain factors are applied to reduce the emissions because it is assumed the down the drain portion is not emitted into the air. A description of the method and a list of adjusted categories are available at: <https://www.arb.ca.gov/consprod/survey/survey.htm>.

- FY 2020-2021 fee emissions reflect an update to fragrance VOC speciation, as result of staff's review and better understanding of fragrance formulations. CARB staff identified three fragrance speciation profiles for the update, with fragrance VOC content ranging from 100 percent VOC to 25 percent, depending on the product category. More information regarding CARB's evaluation and updated assumptions regarding fragrance VOC content is provided in the September 20, 2019 Work Group presentation, available at: [https://ww2.arb.ca.gov/sites/default/files/2020-04/Remediated\\_webinar\\_9202019\\_adav3.pdf](https://ww2.arb.ca.gov/sites/default/files/2020-04/Remediated_webinar_9202019_adav3.pdf) and March 6, 2020 Consumer Products EICs 2020 Inventory Update document, available at: [https://ww3.arb.ca.gov/ei/areasrc/consumer\\_products\\_eics\\_2020\\_inventory\\_update.pdf](https://ww3.arb.ca.gov/ei/areasrc/consumer_products_eics_2020_inventory_update.pdf).
- Aerosol Coatings emissions were determined by using sales and VOC ingredient information collected in the 2010 AC and AA Survey. A direct calculation of VOC emissions using sale and VOC ingredients information was performed, and emissions were adjusted by California population growth.
- The per-company emissions do not reflect survey market coverage adjustments. Adjustment factors are not applicable to individual companies.
- Low vapor pressure (LVP)-VOCs are not currently included in the per-company emissions for consumer products.

### **Adjustments for VOC Standards**

- For FY 2020-2021 fee emissions, no adjustments have been made for VOC standards as no new standards went into effect for 2018. Regulation for Reducing VOC Emissions from Consumer Products (General Consumer Products Regulation) is available at the following link: <https://www.arb.ca.gov/consprod/regs/regs.htm>.
- The 2015 CP Survey product categories are available at the following link: <https://www.arb.ca.gov/consprod/survey/survey.htm>.