

Preliminary Methodologies for Determining Fee Emissions for Consumer Products Manufacturers For Fiscal Year 2019-2020

Below is an outline of the methods used to calculate the Fiscal Year (FY) 2019-2020 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 2019-2020 fees are determined using 2017 volatile organic compound (VOC) emissions.
- California Air Resources Board (CARB) staff determined per-company 2017 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 6.33 percent increase in population in California between 2010 and 2017. VOC emissions based on the 2014 CP Survey information have been adjusted by an approximate 2.20 percent increase in population in California between 2014 and 2017. VOC emissions based on the 2015 CP Survey information have been adjusted by an approximate 1.37 percent increase in population in California between 2015 and 2017. The California Department of Finance is the source for the population data.

Sales Data Year	CA Population Percent Increase Between Sales Year and 2017*
2010	6.33%
2014	2.20%
2015	1.37%

*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>.
- 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 2019-2020 fee emissions, adjustments have been made for standards that went into effect for 2017, where applicable. When products' VOC content is above these standards, they are adjusted to the VOC limit for their respective categories. The product categories and VOC limits are identified below:

<u>Category</u>	<u>VOC Limit (Percent by Weight)</u>
Mist Spray Adhesive	30
Web Spray Adhesive	40
Screen Printing Adhesive	55

(Source: CARB, Regulation for Reducing VOC Emissions from Consumer Products (General Consumer Products Regulation), available at: <https://www.arb.ca.gov/consprod/regs/regs.htm>.)

- Adjustments for VOC standards were made for product categories surveyed in 2010 AC and AA Survey. Information about 2010 AC and AA Survey is available at <http://www.arb.ca.gov/consprod/regact/2010surv/2010surv.htm>. The 2015 CP Survey product categories are available at the following link: <https://www.arb.ca.gov/consprod/survey/survey.htm>.