# 1996 Denominator Calculation

## *Overview*

Step 1: Calculate California's share of 1995 national resin sales for RPPC applications. (Based on 1995 generation of RPPCs in California)

Step 2: Adjust 1995 base generation to account for relative population changes (California vs. U.S.)

Step 3: Apply California's percentage of 1995 national resin sales (adjusted for population) to 1996 national resin sales for RPPC applications and calculate 1996 RPPC generation

Attachment 1

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# 1996 Denominator Calculation

## Step 1:

$$\frac{\text{1995 California RPPC generation}}{\text{1995 National resin sales for RPPC applications}} = \text{1995 base \%}$$

# 1996 Denominator Calculation

## Step 2:

$$1995 \text{ base } \% \times \frac{1996 \text{ Ca. pop.}/1996 \text{ U.S. pop.}}{1995 \text{ Ca. pop.}/1995 \text{ U.S. pop.}} = 1996 \text{ base } \%$$

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# 1996 Denominator Calculation

## Step 3:

1996 base % X 1996 National resin sales for RPPC applications = 1996 RPPC generation

# Data Requirements

1. 1995 national resin sales statistics from the SPI Committee on Resin Statistics as compiled by Association Services Group, LLC.

2. 1996 national resin sales statistics from the SPI Committee on Resin Statistics as compiled by Association Services Group, LLC.

3. Total 1995 California generation of RPPCs (final CIWMB staff adjustments to Cascadia/APC data, or 318,300 tons).

4. 1995 and 1996 California population estimates (U.S. Census estimates)

5. 1995 and 1996 U.S. population estimates (U.S. Census estimates)

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# 1996 Denominator Calculation

## 1995 National Resin Sales

| SPI-CRS Reporting Category | 1995 Tons Sold |
|---|---|
| PET Bottle Grades | 1,001,277 |
| HDPE Pails | 365,825 |
| HDPE Tubs and Containers | 116,700 |
| HDPE Base Cups | 31,199 |
| HDPE Motor Oil Bottles | 84,684 |
| HDPE Liquid Food Bottles | 589,923 |
| HDPE Household Chemical Bottles | 460,353 |
| HDPE Industrial Drums | 113,877 |
| HDPE Pharm., Cosmetics, and Toiletries | 141,941 |
| PVC Bottles | 85,465 |
| LDPE Bottles | 21,624 |
| PP Blow Molding Containers | 76,940 |
| PS Rigid (Non-Foam) Packaging | 322,179 |
| Total 1995 Tons | 3,411,987 |

# 1996 National Resin Sales

| SPI-CRS Reporting Category | 1996 Tons Sold |
|---|---|
| PET Bottle Grades | 1,146,903 |
| HDPE Pails | 394,859 |
| HDPE Tubs and Containers | 113,287 |
| HDPE Base Cups | 10,295 |
| HDPE Motor Oil Bottles | 80,952 |
| HDPE Liquid Food Bottles | 641,243 |
| HDPE Household Chemical Bottles | 497,650 |
| HDPE Industrial Drums | 133,588 |
| HDPE Pharm., Cosmetics, and Toiletries | 145,520 |
| PVC Bottles | 75,182 |
| LDPE Bottles | 22,305 |
| PP Blow Molding Containers | 78,778 |
| PS Rigid (Non-Foam) Packaging | 313,827 |
| Total 1996 Tons | 3,654,389 |

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# 1996 Denominator Calculation

## Population Estimates

| | July 1, 1995 | July 1, 1996 |
|---|---|---|
| California | 31,565,000 | 31,878,000 |
| U.S. | 262,890,000 | 265,284,000 |

Rounded to the nearest thousand.
Source: U.S. Census Population Estimates Program, December 1996

# 1996 Denominator Calculation

## Step 1:

$$\frac{\text{318,300 tons (1995 California RPPC generation)}}{\text{3,411,987 tons (1995 National resin sales for RPPC applications)}} = \text{9.3\% (1995 Base \%)}$$

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# 1996 Denominator Calculation

## Step 2:

$$9.3\% \text{ (95 base \%)} \times \frac{31.878\text{m (96 Ca. pop.)} \ / \ 265.284\text{m (96 U.S. pop.)}}{31.565\text{m (95 Ca. pop.)} \ / \ 262.890\text{m (95 U.S. pop.)}} = 9.3\% \text{ (96 base \%}$$

# 1996 Denominator Calculation

## Step 3:

9.3 % (96 base %) X 3,654,389 (96 National resin sales for RPPC applications) = 339,858 (96 generation

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