

SMAQMD  
AREA SOURCE SUMMARY - SACRAMENTO COUNTY

Section ##  
**NON-AGRICULTURAL WASTE BURNING**

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Date: October 11, 2000

**EMISSION INVENTORY SOURCE CATEGORY**

Non-Agricultural Open Burning (Back Yard Burning)

**EMISSION INVENTORY CODES (CES CODES) AND DESCRIPTION**

670-670-0200-0000 (47290) – Non-Agricultural Open Burning

**METHOD SUMMARY**

The number of housing units located in Sacramento which do not have open burn prohibition was used to estimate the quantity of refuse disposed by non-agricultural open burn (backyard burning). District Rule 407, Open Burning, prohibits open burning in all area except for rural area and Elk Grove south of Elk Grove Boulevard and Calvine Road. The Sacramento Area Council of Government (SACOG, Kelly Grieve, 733-3228) provided the number of housing units in the allowed open burn area. It is the area south of the line delineated at the western edge of Sacramento County at Stonecrest Avenue, east along Stonecrest Avenue, to Interstate 5, south to Elk Grove Boulevard, east to Waterman, north to Calvine Road, east to the eastern boundary of the County was obtained. SACOG also provided the number of housing units in the incorporated cities of Isleton and Galt and the unincorporated communities of Locke, Courtland, Walnut Grove, Hood, and Herald in the above area which are prohibited from open burning. The difference is the number of housing units in Sacramento county that are allowed to open burn by the District rule. According the Sacramento Public Works, the amount of waste generated per household in the unincorporated area is about 60 pounds per week. From Public Works' study, *Waste Generation Study of the Unincorporated Area of Sacramento County* (R.W. Beck and Associates), residential waste is consisted of 33.7% paper, 6.1% plastic, 5.3% metal, 28.1% yard waste, 13.7% organics (food, tire and rubber, wood, textile and leather), 7.5 % other wastes (inert solids and hazardous material). The amount of refuse burned by area without open burn prohibition is assumed to consist mostly of yard waste, which is 28.1% of total refuse generated. Paper waste is recyclable and is probably collected by refuse collection service.

Paper waste (33.7% of residential waste) is also assumed to be open burned by households without garbage collection service. According to Pat Quinn of County Public Works (875-7082), 4372 households in the non-urbanized rural area have refuse collection service. By subtracting this number and Elk Grove (south of Elk Grove Boulevard) housing units from the number of housing units without open burn prohibition, the number households without waste collection service is determined. Emissions are estimated by multiplying AP-42 emission factors, Section 2.5, Open Burning (1/95) with the total amount of waste burned.

ACTIVITY DATA SOURCE:        See above.

EMISSION FACTOR SOURCE:    AP-42, Section 2.5, *Open Burn* (1/95).

TEMPORAL DATA:

    Daily Activity:

    Weekly Activity:

    Monthly Activity:

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DATE OF THE LAST UPDATE: February 12, 1992.

GROWTH PARAMETER: Housing Units.

**EMISSION SUMMARY (1999 - ANNUAL AVERAGE TONS/DAY) UNRECONCILED**

<u>CES#</u>	<u>TOG</u>	<u>ROG</u>	<u>CO</u>	<u>NOX</u>	<u>SOX</u>	<u>PM</u>	<u>PM10</u>
47290	0.37	0.26	0.74	0.05	0.01	0.14	0.14

**NEEDED CLARIFICATIONS/CORRECTIONS TO CURRENT METHOD**

This method assumes 60 pounds of refuse per housing unit and 28.1% (yard waste) of refuse is burned.

**FUTURE PLANS FOR METHOD UPDATE/REVISION**

None.

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