

SMAQMD
AREA SOURCE SUMMARY - SACRAMENTO COUNTY

Section 2.1

Fuel Combustion - Oil and Gas Production

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EMISSION INVENTORY SOURCE CATEGORY

Oil and Gas Production Combustion

EMISSION INVENTORY CODES (CES CODES) AND DESCRIPTION

030-040-0100-0000 (82081) - Petroleum Production Fuel Combustion - Gaseous Fuel

030-040-1000-0000 (82073) - Petroleum Production Fuel Combustion - Liquid Fuel

METHOD SUMMARY

District permit and emission inventory databases are queried to identify natural gas IC engine compressors used for gas production. Natural gas producers are identified using "Monthly Oil and Gas Production and Injection Report", December 1998, published by California Department of Conservation. Natural gas producers without district permit are contacted to find out if they operate gas compressors. Natural gas producers are surveyed for 1999 data on hours of operation and fuel usage. Emissions are estimated using emission factors from AP-42 or permit evaluation if permitted and the total annual fuel or hours of operation reported.

ACTIVITY DATA SOURCE: 1999 survey data.

EMISSION FACTOR SOURCE: The emissions were calculated using emission factors from permit evaluation (EPA AP-42) or from equipment manufacturer.

TEMPORAL DATA:

Daily Activity: 24 hours per day.

Weekly Activity: 7 days per week.

Monthly Activity: Usually uniform throughout the year, depending on age of the well.

DATE OF THE LAST UPDATE: September 4, 1997.

GROWTH PARAMETER: Natural gas production. Not currently in the CARB projection system.

EMISSION SUMMARY (1999 - ANNUAL AVERAGE TONS/DAY) RECONCILED

<u>CES#</u>	<u>TOG</u>	<u>ROG</u>	<u>CO</u>	<u>NOX</u>	<u>SOX</u>	<u>PM</u>	<u>PM10</u>
82081	0.01	0.00	0.21	0.07	0.00	0.00	0.00
82073	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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NEEDED CLARIFICATIONS/CORRECTIONS TO CURRENT METHOD

Nature gas IC engine operation fluctuates depending on pressure (age) of the well. Permitted sources will be tracked annually.

FUTURE PLANS FOR METHOD UPDATE/REVISION

Survey permitted source annually.