

Note: This is a reference cited in *AP 42, Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources*. AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the reference number, the AP42 chapter and section. The file name "ref02_c01s02.pdf" would mean the reference is from AP42 chapter 1 section 2. The reference may be from a previous version of the section and no longer cited. The primary source should always be checked.

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NONINDUSTRIAL
SURFACE COATING
AP-42 Section 4.2.1
Reference Number
8

Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

Emissions-Per-Employee Factor for Automobile Refinishing

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Charles Mann, Environmental Engineer
Request Information Section, NADB (MD-14)

Per our discussions of the last few months I have derived an emissions-per-employee factor for automobile refinishing. Please review the below derivation and comment.

National VOC Emissions From Auto Refinishing

400×10^6 lbs/year (mid 1970's) Reference 1

Approximate National Employment In SICs 7531 and 7535

7531 - Top and body repair shops:	65,700	(2976)	Reference 2
7535 - Automobile paint shops:	<u>12,360</u>	(1972)	Reference 3
TOTAL (approximate)	78,000		

Emissions-Per-Employee (EPE) Factor

EPE = $\frac{\text{National VOC Emissions from Auto Refinishing}}{\text{National Employment in SICs 7531 and 7535}}$

= $\frac{400 \times 10^6 \text{ lbs/year (1 ton/2000 lbs)}}{78,000 \text{ employees}}$

= 2.5 lbs VOC/employee-yr

This value will be incorporated in VOC emission inventory guidance being compiled in Procedures for the Preparation of Emission Inventories for Volatile Organic Compounds Volume I, Second Edition (September 1980). This document is about to be printed. Therefore, I must request that you concur or comment as soon as possible.

Thank you for your assistance in the revision of Volume I. Your efforts and comments have been useful in improving the document.

References

1. W. H. Lamason, "Technical Discussion of Per Capita Factors and National Emissions of Volatile Organic Compounds for Several Area Source Emission Inventory Categories", Monitoring and Data Analysis Division, U.S. Environmental Protection Agency, Research Triangle Park, NC July 1980, unpublished.
2. Statistical Abstract of the United States, 100th Edition, Bureau of the Census, U.S. Department of Commerce, Washington, DC, 1 3 7 9 .
3. Statistical Abstract of the United States, 97th Edition, Bureau of the Census, U.S. Department of Commerce, Washington, DC, 1976.

bcc: J. O'Connor

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Correction to Automobile Refinishing Memorandum

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Charles Mann, Environmental Engineer
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Upon review I have discovered an error in my memorandum to you on the derivation of an emissions-per-employee factor for automobile refinishing (October 8, 1980). Notice on the attached copy of the memorandum that the factor should be 2.6 tons VOC/employee/yr.

$$\text{EPE} = \frac{400 \times 10^6 \text{ lbs/yr} (1 \text{ ton}/2000 \text{ lbs})}{78,000 \text{ employees}}$$

$$= 2.6 \text{ tons VOC/employee/yr}$$

Please make note of this correction.

Attachment

AMTB:SAS:WHLAMASON:eb:rm776MU:ext.5285:3/10/81