Source Category:	Fugitive Dust from Unpaved Road	
SCC Code:	229600000	
Pollutants of Cond	ern: PM-10, PM-2.5	
How is the PM National Emission Inventory developed for this category?		
Current Methodo Monthly PM that includes (S), surface (M <sub>dry</sub> ), and precipitation The monthly traveled (V) The equation National Ai	<b>logy (see also the link to the NEI Methodology Description):</b> $I_{10}$ and PM <sub>2.5</sub> emissions are estimated by use of an empirical equation is the variables: mean vehicle weight (W), surface material silt content material moisture content under natural, uncontrolled conditions the number of days in the month with greater than 0.01 inches of a (P). (See AP-42, Section 13.2.2) V PM <sub>10</sub> emission factors are multiplied by the monthly vehicle miles MT) for unpaved roads. n and equation constants are discussed in Section 4.8.1.4 in the r Pollutant Emissions Trends Procedures Document for 1900-1999.	
<ul> <li>Current Variables</li> <li>Mean vehic typical veh</li> <li>Surface man data collect</li> <li>Surface man</li> <li>Number of [representa]</li> </ul>	<pre>/Assumptions Used: le weight (W) of 2.2 tons [based on average vehicle weight for a icle mix.] erial silt content (S) [state averages based on a set of measurement ted over the past 15 years.] erial moisture content under dry, uncontrolled conditions (M<sub>dry</sub>) days in the month with greater than 0.01 inches of precipitation (P) utive weather station]</pre>	
<ul> <li>Uncertainties / Sh</li> <li>Unpaved rovary by orderate a data as</li> <li>The nationa apply in all</li> <li>Average varbased on so for each sta without san of all 200 sa</li> <li>Precipitation represent prevent pr</li></ul>	ortcomings of Current Methods: ad source conditions have extreme variations and actual emissions can ers of magnitude pointing out the importance of using as much local possible in the empirical equation. I method uses a default value for vehicle weight of 2.2 tons may not areas and should be reviewed for each specific area. The values are me 200 samples in 30 states. The average silt content was calculated the that had at least three representative samples. Emissions from states uple representation were assumed to have a silt content of the average imples. In data for a state was collected from one meteorological station to ecipitation for the rural areas of the state. Inpaved roads as obtained from available national databases is not preover, it is available only for state totals and must be allocated to	

How can State, Local, and Tribal agencies improve upon this methodology?			
<ul> <li>Local data for ADTV, VMT, and road classifications by county. [Mobile Source Section of the state Environmental Department, State Department of Transportation]</li> <li>Local data to represent the average weight of vehicles. [Department of Motor Vehicles and in the Mobile Source Section of the state Environmental Department]</li> <li>The moisture content in the national emission calculation is based on the precipitation from one reporting station in each state. Contact the National Weather Bureau or private or research networks for local weather precipitation data that better represents the closest reporting station in the area will further improve the accuracy of the estimates.</li> <li>Estimates of actual local silt content on unpaved road surfaces will enhance accuracy of emission estimations (may require sampling).</li> </ul>			
Where can I find Additional Information and Guidance?			
<b>EPA Contact:</b> Mr. William B. Ku Emission Factor an U.S. Environmenta D205-01 USEPA Mailroom Research Triangle E-mail: kuykendal. Telephone: 919-54	ykendal d Inventory Group l Protection Agency Park, NC 27711 bill@epa.gov 1-5372		
AP-42, Section 13.2.2	http://www.epa.gov/ttn/chief/ap42/ch13/final/c13s0 2-2.pdf		
Area Source Emissions Model	http://www.epa.gov/ttn/chief/software/asem/index.h tml		
County Level Emission Density	http://www.epa.gov/ttn/chief/eiip/pm25inventory/de		
Maps for this Source Category	nsitymaps.pdf		
Trends Procedures Document for 1900-1999	proc_99.pdf		
NEI Methodologies Description	http://www.epa.gov/ttn/chief/trends/procedures/ (Section 4.8.1.4, pages 4-248 - 4-253) Note: This document is currently being revised. http://www.epa.gov/ttn/chief/eidocs/partsec5_opbr		

	n.pdf
Procedure for Laboratory Analysis of Surface/Bulk Loading Samples	http://www.epa.gov/ttn/chief/ap42/appendix/app- c2.pdf
Procedures for Sampling Surface/Bulk Dust Loading	http://www.epa.gov/ttn/chief/ap42/appendix/app- c1.pdf