

ARB (California Air Resources Board), 2011, 2004 Inventory: Main Speciation Profiles. Available at [http://www.arb.ca.gov/ei/speciate/profphp04/pmprof\\_list.php](http://www.arb.ca.gov/ei/speciate/profphp04/pmprof_list.php). Accessed Dec. 15, 2011.

### 2004 Inventory: Main Speciation Profiles

[Click Here to Change Inventory Year](#)

Return to Main Interactive Page

ORGP
PMP
SCCL
CHEM

ORGSPEC

SCCORG

PMSPEC

SCCPM

SCCORG

SCCPM

ORGSPEC

PMSPEC

Select inventory year, above, then: EITHER click on a RED master file for access to the entire master file, from which you can select portions of detail files; OR, in order to access an entire detail file at one time, click on a GREEN detail file (below red master files). The search/filter method will work either way.

For additional information on the file structures, field descriptions, and how the MASTER-DETAIL files are linked, click the file name, below:

[ORGP: info](#)  
 [ORGSPEC: info](#)  
 [SCCORG: info](#)  
 [PMP: info](#)  
 [PMSPEC: info](#)  
 [SCCPM: info](#)  
 [SCCL: info](#)  
 [CHEMREF: info](#)

pmprof

[Advanced search](#)  
 [Export results](#)  
 [Printer-friendly version](#)

Search for:   Contains   
Details found: 123  
Page 1 of 7      Records Per Page: 20

	pmprfcd	prfname	wfracpm10	wfracpm2pt5	geovarlink	reflink1	reflink2	reflink3	prfcomment	datacomment
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	110	LIQUID MATERIAL COMBUSTION	0.976	0.967		17	INCLUDES ALL LIQUID MATERIAL COMBUSTION SOURCES NOT OTHERWISE SPECIFIED. PROFIL <a href="#">More ...</a>	INCLUDES ALL LIQUID MATERIAL COMBUSTION SOURCES NOT OTHERWISE SPECIFIED. PROFIL <a href="#">More ...</a>
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	111	FUEL COMBUSTION-RESIDUAL	0.87	0.76		17	TESTED 5MM BTU/HR SCOTCH DRY-BACK BOILER, USING TWO FUELS: LOW SULFUR NO. 6 FUEL <a href="#">More ...</a>	TESTED 5MM BTU/HR SCOTCH DRY-BACK BOILER, USING TWO FUELS: LOW SULFUR NO. 6 FUEL <a href="#">More ...</a>
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	112	FUEL COMBUSTION-DISTILLATE	0.976	0.967		17	BABCOCK & WILCOX TYPE H STIRLING INDUSTRIAL BOILER, USING LOW SULFUR NO. 2 FUEL <a href="#">More ...</a>	BABCOCK & WILCOX TYPE H STIRLING INDUSTRIAL BOILER, USING LOW SULFUR NO. 2 FUEL <a href="#">More ...</a>
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	113	UTILITY BOILERS-RESIDUAL	0.97	0.953		17	TWO UTILITY BOILERS TESTED, ONE WITH OPPOSED FACE-FIRED STEAM GENERATOR; OTHER W <a href="#">More ...</a>	TWO UTILITY BOILERS TESTED, ONE WITH OPPOSED FACE-FIRED STEAM GENERATOR; OTHER W <a href="#">More ...</a>
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	114	STAT. I.C. ENGINE-DIST/DIESEL	0.976	0.967		17	ASSUMED TO BE SAME AS #112.	ASSUMED TO BE SAME AS #112.
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	115	STAT. I.C. ENGINE-GASOLINE	0.994	0.992		17	ASSUMED TO BE SAME AS #123.	ASSUMED TO BE SAME AS #123.
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	116	STAT. I.C. ENGINE-DIESEL	0.96	0.937		17	BASED ON TESTS ON I.C. RECIPROCATING ENGINE (2400 HP TURBOCHARGED ELECTRIC POWER <a href="#">More ...</a>	BASED ON TESTS ON I.C. RECIPROCATING ENGINE (2400 HP TURBOCHARGED ELECTRIC POWER <a href="#">More ...</a>
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	117	VEHICULAR SOURCES-GASOLINE	0.994	0.992				
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	118	VEHICULAR SOURCES-DIESEL	0.96	0.937				
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	119	MARINE VESSELS-LIQUID FUEL	0.96	0.937		17	ASSUMED SAME AS #116.	ASSUMED SAME AS #116.
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	120	GASEOUS MATERIAL COMBUSTION	1	1		17	BASED ON KVB ENGINEERING ESTIMATE.	BASED ON KVB ENGINEERING ESTIMATE.
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	121	RESIDENTIAL-NATURAL GAS	1	1		17	KVB LITERATURE RESEARCH - BASED ON INDUSTRIAL BOILER PROFILE (KVB #49).	KVB LITERATURE RESEARCH - BASED ON INDUSTRIAL BOILER PROFILE (KVB #49).
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	123	STAT. I.C. ENGINE-GAS	0.994	0.992		17	CLIMAX RECIPROCATING ENGINE FUELED BY A DIGESTER GAS FROM A WASTE DISPOSAL OPERA <a href="#">More ...</a>	CLIMAX RECIPROCATING ENGINE FUELED BY A DIGESTER GAS FROM A WASTE DISPOSAL OPERA <a href="#">More ...</a>
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	125	PETROLEUM HEATERS-GAS	0.95	0.93		17	BASED ON TESTS DONE ON A REFINERY HEATER FUELED WITH NATURAL GAS.	BASED ON TESTS DONE ON A REFINERY HEATER FUELED WITH NATURAL GAS.
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	130	SOLID MATERIAL COMBUSTION	0.997	0.927				
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	131	COAL/COKE COMBUSTION	0.4	0.15		26	CHEMICAL COMPOSITION BASED ON STUDY BY W.S.SMITH,C.W.GRUBER -ATMOSPHERIC EMISSI <a href="#">More ...</a>	CHEMICAL COMPOSITION BASED ON STUDY BY W.S.SMITH,C.W.GRUBER -ATMOSPHERIC EMISSI <a href="#">More ...</a>
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	132	STAT. I.C. ENGINE-SOLID FUEL	0.997	0.927		17	ASSUMED SAME AS #133.	ASSUMED SAME AS #133.
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	133	WOOD WASTE COMBUSTION	0.997	0.927		17	TEST DONE ON A WELLONS HOG FUEL BOILER FUELED BY SAWDUST, WOOD CHIPS, AND BARK.	TEST DONE ON A WELLONS HOG FUEL BOILER FUELED BY SAWDUST, WOOD CHIPS, AND BARK.
<a href="#">View</a>	<a href="#">pmspec</a>	<a href="#">sccpm04</a>	134	OTHER WASTE	0.997	0.927				

[View](#) [pmspec](#) [sccpm04](#) 135  
COMBUSTION  
PLANNED/UNPLNND 0.88 0.85  
FOREST FIRES

[ 1 2 3 4 5 6 7 ]

*(Close this window when you are ready to return to data files)*

## **PMPROF file information**

- [File and field descriptions](#)
  - [Master-detail link diagram](#)
  - [How to use this data](#)
- 

### **File and field descriptions**

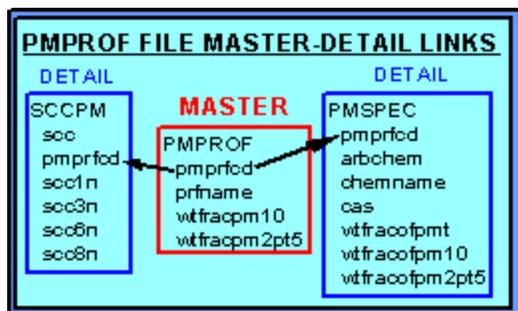
**PMPROF:** The base file for the particulate matter speciation profiles. It contains the unique listing of the particulate matter speciation profile codes and the profile descriptive name. It also contains the fraction of PMT (total particulate matter) that is PM10 (particulate matter less than 10 microns), and the fraction of PMT that is PM25 (particulate matter less than 2.5 microns) for this profile. These are termed the "size fraction" data on this web site. However, they are still fractions by weight.

1. **PMPRFCD** : Field containing the particulate matter speciation profile code assigned to the speciation profile. This code is an arbitrary code assigned by the ARB.
2. **PRFNAME**: The descriptive name for the particulate matter speciation profile. This profile may be used for many different source categories (see SCCPM file information), so the profile name will often have a broader definition than the source categories. In some cases, the profile may be "borrowed" by similar sources, when a profile is not available for a specific source. In these cases, there may be some conflict between the profile description, and the SCC description that it is being assigned to. These assignments are considered "low confidence" assignments, and are taken into account in modeling. In some cases, they may result in the exclusion of the source from certain types of modeling.
3. **WTFRACPM10**: This is **the size fraction, by weight, that the PM10 is of the PMT**. This is the number that will be multiplied by the WTFRACOFPM10 field in the PMSPEC file, and then by the linked CEIDARS PMT emissions (via the SCCPM file) to yield the final speciated PM10 emissions .
4. **WTFRACPM2PT5**: This is **the size fraction, by weight, that the PM25 is of the PMT**. This is the number that will be multiplied by the WTFRACOFPM2PT5 field in the PMSPEC file, and then by the linked CEIDARS PMT emissions (via the SCCPM file) to yield the final speciated PM25 emissions .

[Back to Top](#)

---

## Master-detail link diagram



[Back to Top](#)

## How to use this data

The data in this file are used in order to speciate the PMT emissions from a source into PMT, PM10, or PM25 size fraction-specific compounds. For the PM10 and PM25 emissions, you would first have to multiply the WTFRACOFPM10 and WTFRACOFPM2PT5 fields in the PMSPEC file by the WTFRACPM10 and WTFRACPM2PT5 fields, respectively, in the PMPROF file, by linking on the PMPRFCD field. You would then take the PM10 and PM25 products, and also the original, unmodified WTFRACOFPMT fields, and multiply each of them, independently by the CEIDARS PMT emissions values by linking via the PMPRFCD field to the source categories (SCC/EIC codes) indicated in the SCCPM file via the PMPRFCD field, and then to the CEIDARS emission data files via the SCC field (actually SCC or EIC codes). Note that this profile may link to many SCC/EIC designated source codes.

Note that the calculation process for PMT is similar to the TOG calculation process, but for PM10 and PM25 there is the additional step of multiplying by the size fraction.

[Back to Top](#)

[Top of Page](#) | [Speciation Home](#)

Please send questions or comments to:  
[eibweb@arb.ca.gov](mailto:eibweb@arb.ca.gov)

*A Department of the California Environmental Protection Agency*