

Texas Natural Resource Conservation Commission

INTEROFFICE MEMORANDUM

To: PMU I/II Staff Date: February 16, 1995

From: Dom Ruggeri, Team Leader
Permit Modeling Unit II
Air Quality Planning & Assessment Division

Subject: Meteorological Data for Prevention of Significant
Deterioration Modeling (Replaces October 14, 1994 Memo)

Usually, applicants must obtain National Weather Service surface and upper-air meteorological files from the EPA SCRAM Bulletin Board System (BBS) and merge them using the RAMMET preprocessor in order to create surface/upper-air data sets that can be used with most regulatory models. Occasionally, preprocessed data may be available on the TNRCC OnLine BBS.

To provide guidance to applicants on which surface/upper-air data sets to use for Prevention of Significant Deterioration (PSD) modeling, you should determine from our *Air Quality Modeling Guidelines* which surface/upper-air combination applies, and then identify which years of unprocessed data are available on the EPA SCRAM or the TNRCC OnLine BBSs.

To help you do this I've put the data you'll need to review in the enclosed Surface and Upper-Air Tables. Please note, that the SCRAM BBS has 1992 surface data for all stations; however, there is no corresponding upper-air data for 1992 yet, so I omitted 1992 from the surface table.

The codes used in the Tables are defined as follows:

An "X" indicates that the surface and upper-air data files are available for regulatory modeling on the EPA SCRAM BBS for the year listed.

An "I" indicates that the data are available but incomplete (not useable for regulatory modeling).

A "0" indicates that the data are not available (greater than 90 percent missing data).

An "F" indicates that missing data has been filled in and the data is available on the TNRCC OnLine BBS.

Enclosures

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SURFACE TABLE

Station	84	85	86	87	88	89	90	91
Abilene	X	X	X	X	X	X	X	X
Amarillo	X	X	X	X	X	X	X	X
Austin	X	X	X	X	X	X	X	X
Brownsville	X	X	X	X	X	X	X	X
Corpus Christi	X	X	X	X	X	X	X	X
Dallas	X	X	X	X	X	X	X	X
El Paso	X	X	X	X	X	X	X	X
Houston	X	X	X	X	X	X	X	X
Lubbock	X	X	X	X	X	X	X	X
Midland	X	X	X	X	X	X	X	X
Port Arthur ¹	X	X	X	X	X	X	X	X
San Angelo	X	X	X	X	X	X	X	X
San Antonio	X	X	X	X	X	X	X	X
Shreveport	X	X	X	X	X	X	X	X
Victoria	X	X	X	X	X	X	X	X
Waco	X	X	X	X	X	X	X	X
Wichita Falls	X	X	X	X	X	X	X	X
Hondo ²	X	0	0	X	0	X	X	X
Lufkin ²	X	X	0	0	0	0	0	X
Stephenville ²	X	X	0	X	0	X	X	0

¹ Listed on the SCRAM BBS as Port Arthur/Jefferson County; we refer to this station as Beaumont/Port Arthur.

² These data are available on the SCRAM BBS but are not currently used for regulatory modeling.

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UPPER AIR TABLE

Station	84	85	86	87	88	89	90	91
Amarillo	X	X	I	X	X	X	X	X
Brownsville	I	X	X	I	X	I	X	X
Corpus Christi	0	0	0	0	0	0	X	X
Del Rio	X	X	X	X	X	X	I	X
El Paso	X	X	0	X	X	X	X	X
Lake Charles	X	X	0	X	X	X	X	X
Longview	0	0	0	F ³	F ³	X	F ⁴	X
Midland	X	X	X	X	X	X	X ⁵	X
Stephenville	X	F	0	X	X	F	X	0
Victoria ⁶	X	0	X	X	X	0	0	0

³ These data are not available on the SCRAM BBS. The State has obtained the files, filled in missing data, and placed the files on the TNRCC OnLine BBS.

*⁴ These data are available on the SCRAM BBS but are incomplete. The State has filled in missing data, and placed the file on the TNRCC OnLine BBS.

⁵ These data are on the SCRAM BBS and are currently listed as complete but there are 2 days with missing mixing heights. Until EPA fixes the file, an applicant must fill in the missing data in order to use the RAMMET preprocessor.

⁶ Currently, there are only 4 years of data available on the SCRAM BBS. Victoria stopped operating as an upper-air station in November 1989. Corpus Christi began taking upper-air observations in place of Victoria in January 1990.

* The State has obtained surface/upper-air and STAR data sets for Victoria for 1983 and placed them on the TNRCC OnLine BBS. Applicants can now obtain a five-year data set (1983, 1984, 1986, 1987, and 1988) to use for PSD modeling.

* Indicates revised information.