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1. Data Set Description:

Tennessee Valley Authority (TVA) operated two enhanced (Level 2) surface-level monitoring stations during the 1999 Nashville/Middle Tennessee Field Study. One of the level 2 stations is located on the top of the James K. Polk Building in downtown Nashville. The other level 2 station is located about 40 miles west of Nashville near Cumberland Furnace in Dickson County. Gas measurements (5-minute averaged concentrations) include sulfur dioxide (SO₂), carbon monoxide (CO), ozone (O₃), nitrogen oxide (NO), nitrogen dioxide (NO₂), and total oxides of nitrogen (NO_y). The meteorological measurement package includes wind speed (WS), wind direction (WD), temperature (T), relative humidity (RH), and solar radiation (RAD).

More information can be found in the [NARSTO SOS99NASH_SURF_LEVEL2 ReadMe file](#).

The dataset should be cited as follows:

Olszyna, Ken J. 2002. NARSTO SOS99NASH TVA Surface Meteorology and Chemistry Data. Available on-line via [NARSTO Data and Information](#) at the Langley DAAC, Hampton, Virginia, U.S.A.

2. Sample Data Record/Data Format:

Data files are in the NARSTO Data Exchange Standard (DES) format that is described in detail on the [NARSTO Quality Systems Science Center \(QSSC\) web site](#). The files follow a tabular layout and are stored as ASCII comma-separated values files (.csv). The DES does not rely on row position to identify specific information, but uses a tag to describe the information contained in the row. The DES is a self-documenting format with three main sections: the header contains information about the contents of the file and the data originator; the middle section contains metadata tables that describe/define sites, flags, and other codified fields; and the final section is the main data table that contains key sampling and analysis information and the data values. Descriptions of the standardized metadata fields are also available on the QSSC web site.

3. References:

- NASHVILLE 1999 FIELD STUDY SCIENCE PLAN
- 1999 SOS NASHVILLE FIELD CAMPAIGN QUALITY ASSURANCE PLAN
- SOS NASHVILLE 1999 MEASUREMENT PLAN

4. Contact Information:

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Data Center:

The User and Data Services Office at the Langley Atmospheric Science Data Center is involved throughout the system to monitor the quality of data on ingest, to ensure prompt replies to user questions, to verify media orders prior to filling them, and to ensure that the needs of the users are being met.

If you have a problem finding what you need, trouble accessing the system, or need an answer to a question concerning the data or how to

obtain data, please contact the User and Data Services staff.

Telephone: (757) 864-8656

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E-mail: support-asdc@earthdata.nasa.gov

URL: <http://eosweb.larc.nasa.gov>.

5. Acknowledgement:

When data from the Langley Atmospheric Science Data Center are used in a publication, we request the following acknowledgment be included: "These data were obtained from the NASA Langley Research Center Atmospheric Science Data Center".

The Langley Data Center requests a reprint of any published papers or reports or a brief description of other uses (e.g., posters, oral presentations, etc.) of data that we have distributed. This will help us determine the use of data that we distribute, which is helpful in optimizing product development. It also helps us to keep our product-related references current.

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