



City of Albuquerque Information Technology Services Division Data Management

Data.cabq.gov Core Metadata Requirements

Contact Information

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What Does this Dataset Describe?

Dataset Title	Air Quality Data
Short Description	Air quality measurements are <i>polled</i> hourly from our air monitoring stations
Full Non-Technical Description	
The City of Albuquerque Environmental Health Department Air Quality Division measures ambient air quality conditions for the following criteria pollutants: Carbon monoxide (CO); Nitrogen dioxide (NO ₂); Ozone (O ₃); Coarse Particulate Matter (PM ₁₀); Fine Particulate Matter (PM _{2.5}), Sulfur Dioxide (SO ₂). Data provided is not quality assured and use of data is dependent on the end users knowledge. To learn more about AIRNow please go to http://airnow.gov/index.cfm?action=topics.about_airnow .	

How Should this Dataset be Cited?

[http://data.cabq.gov/airquality/aqindex/\[FILENAME\]](http://data.cabq.gov/airquality/aqindex/[FILENAME])

Does the Dataset Reflect a Particular Time Period?

Field	Definition
Start Date	08/22/12
End Date	Ongoing
Dataset Refresh Interval	Hourly files are placed in the daily directory between 01:15 and 23:15. All daily files will be deleted from the daily directory at 00:15. The 23 rd hour file is placed in the history directory at 00:15.
Data Expiration Date	Ongoing
Dataset Review Date	Ongoing
Comments	<p>Data provided is not quality assured and use of data is dependent on the end users knowledge.</p> <p>http://data.cabq.gov/airquality/aqindex/daily/12071610.0017 12 year 07 month 16 day 10 hour .0017</p> <p>http://data.cabq.gov/airquality/aqindex/history/1271623.0017 12 year 07 month 16 day 23 hour .0017</p>

Dataset Definition/Format

Field Name	Format	Description
BEGIN_FILE		Indicates the beginning of the file
FORMATE_VERSION		Indicates the file format version being used. Currently we are using format version 2
AGENCY		Indicates the agency reporting the data. City of Albuquerque is 0017.
FILENAME		12071610.0017 12 year 07 month 16 day 10 hour .0017 Please note that the year is not part of the filename in the filename field.
DATA_VERSION		Contains the year, month, day, hour and minute the data was captured
TZONE		Time Zone for where the data is captured, monitoring network stations stay on standard time. MST, 7
BEGIN_GROUP		Indicates the beginning of the data block, repeated for each data block (repeating)
VARIABLE		Indicates the type of data being reported in the data block. OZONE, PM10, PM2.5, NO2, SO2
DATA_TYPE		POINT
MEASUREMENT_TYPE		SAMPLE
CHARACTERISTIC		OBSERVED
START_DTG		Start Date Group, Indicates the date and start time of the data in this group. yyyyymmddhhhh
END_DTG		End Date Group, Indicates the data and end time for the data in this group. yyyyymmddhhhh
INTERVAL		Indicates the interval of the reading in minutes.
START_REF		Start hour
NUMSTEPS		Number of readings that are included in this data group. Each hour additional readings are added to the file so at the end of 10 hours there will be 10

		readings through the 24-hours of the day.
AVG_TIME		The average time between readings.
UNITS		The unit of measurement used in this data group. PPB = Parts Per Billion UG/M3 = micrograms per metric cubed PPM = Parts Per Million
STATION		The number of the station that is reporting the data in this data group.
BEGIN_DATA		Indicates the beginning of the data being reported (repeating)
Date Row		There is one row of data for each station reporting data.
Site Name		Name of the site where the reading is taken
EPA Site Code		The EPA Site number where the reading is taken
Reading		The reading, there will be the same number of readings as there are NUMSTEPS. They are reported in order with the 1 st hourly value first and the 10 th hourly value last through the 24-hours of the day.
Quality of Data Row		There is one quality row for each data row.
Site Name		Name of the site where the reading is taken
EPA Site Code		The EPA Site number where the reading is taken
Quality Indicator		For each reading in the row above there is an indicated as to whether the reading is a “G”ood reading or a “B”ad reading. This lets the AirNow system know if the data is questionable. IF “B” data then the corresponding reading in the row above is not used in the indexing process. All “B” data should be ignored.
END_DATA		Indicates the end of the data being reported (repeating)
END_GROUP		Indicates the end of the data block, repeated for each data block (repeating)
END_FILE		Indicates the end of the file

Dataset Technical Description

This data is provided in a comma delimited text format with repeating sections. File data and Group data are in a paired, field, data combination where the actual readings and quality of the readings in on individual lines with data elements separated by a comma.

See example below through the 10:00 hour. Note data is 24/7.

```

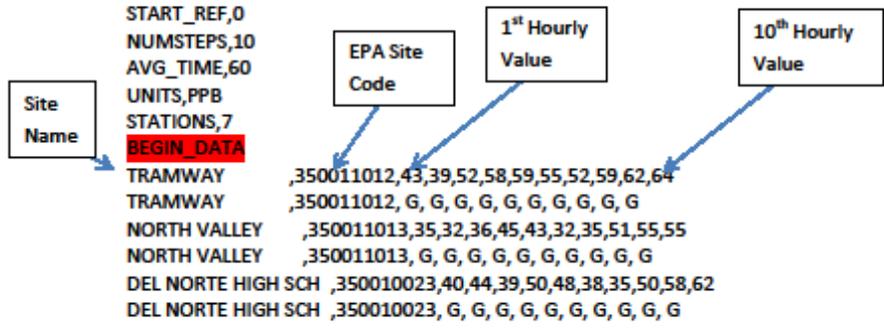
BEGIN_FILE
FORMAT_VERSION,2
AGENCY,NM2
FILENAME,071610.NM2
DATA_VERSION,201207161004
TZONE,MST,7

```

```

BEGIN_GROUP
VARIABLE,OZONE
DATA_TYPE,POINT
MEASUREMENT_TYPE,SAMPLE
CHARACTERISTIC,OBSERVED
START_DTG,201207160000
END_DTG,201207160959
INTERVAL,60
START_REF,0
NUMSTEPS,10
AVG_TIME,60
UNITS,PPB
STATIONS,7

```



```

BEGIN_DATA
TRAMWAY ,350011012,43,39,52,58,59,55,52,59,62,64
TRAMWAY ,350011012, G, G, G, G, G, G, G, G, G, G
NORTH VALLEY ,350011013,35,32,36,45,43,32,35,51,55,55
NORTH VALLEY ,350011013, G, G, G, G, G, G, G, G, G, G
DEL NORTE HIGH SCH ,350010023,40,44,39,50,48,38,35,50,58,62
DEL NORTE HIGH SCH ,350010023, G, G, G, G, G, G, G, G, G, G

```

```

.f
F8
END_DATA
END_GROUP
BEGIN_GROUP
VARIABLE,PM10
DATA_TYPE,POINT
MEASUREMENT_TYPE,SAMPLE
CHARACTERISTIC,OBSERVED
START_DTG,201207160000
END_DTG,201207160959
INTERVAL,60
START_REF,0
NUMSTEPS,10
AVG_TIME,60
UNITS,UG/M3
STATIONS,3

```

```

BEGIN_DATA
NORTH VALLEY ,350011013,22.9,21.9,12.1,11.6,13.7,23.3,22.5,12.3,8.5,11.3
NORTH VALLEY ,350011013, G, G, G, G, G, G, G, G, G, G

```

```

END_DATA
END_GROUP

```

```

END_FILE

```

Dataset Assumptions

Not all data is good. Bad data should be ignored.

The data represent the best information available. However, some values may be absent due to incomplete reporting, and some values subsequently may be changed due to quality assurance activities. The database is updated hourly.

Readers and data users are cautioned not to infer a qualitative ranking order of geographic areas based on AirData maps, charts, or reports. Air pollution levels measured in the vicinity of a particular monitoring site may not be representative of the prevailing air quality of a county or urban area. Pollutants emitted from a particular source may have little impact on the immediate geographic area, and the amount of pollutants emitted does not indicate whether the source is complying with applicable regulations.

Who Produced the Dataset?

Air Quality Monitoring and Assurance Section, Albuquerque Environmental Health Department as required by the US EPA.

Who Owns the Data?

Air Quality Monitoring and Assurance Section, Albuquerque Environmental Health Department as required by the US EPA.

Why was the Dataset Created?

Air Quality Monitoring and Assurance Section, Albuquerque Environmental Health Department as required by the US EPA for the purposes of reporting data to the EPA AirNow data management center.

How was the Dataset Created?

This data is extracted from the Air Quality system and automatically FTP'd to data.cabq.gov by the Environmental Health Department.

Not a manual process.

Agilaire EDAS System.

What Similar or Related Data Should the User be Aware of?

US EPA AirNow Contractor System via Sonoma Technology

How Reliable are the Data?

Data is very reliable and comes from the same source that is sent to AirNow.

How Well Have the Observations Been Checked?

Data is not verified by the department prior to submittal. Each reading has a “G”ood or “B”ad indicator that indicates if the reading is reliable and therefore is ok to use.

Are there Legal Restrictions on the Access or Use of the Data?

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Legal Disclaimer

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The City's standard copyright, disclaimers and legal statements may be found at <http://www.cabq.gov/about/legal>. The City data policy governing data.cabq.gov may be found at <http://data.cabq.gov/policy/>.