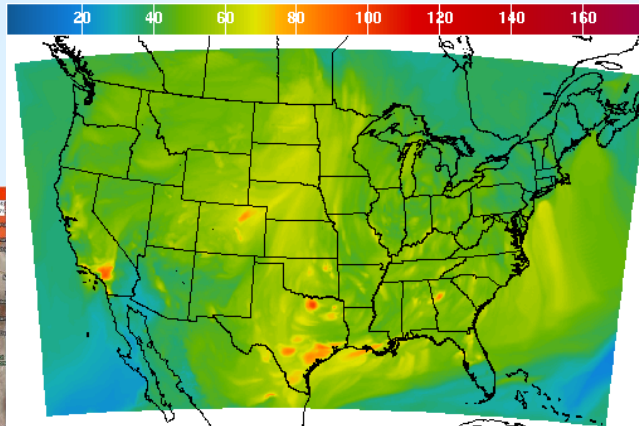
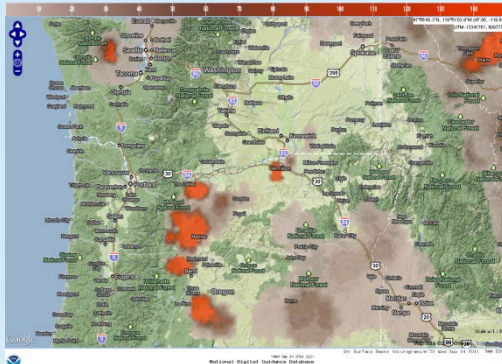


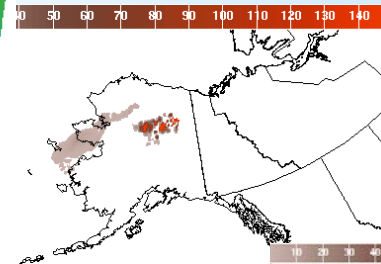
Display of NOAA's Air Quality Forecast

<https://airquality.weather.gov/> | <https://airquality.weather.gov/expr/>

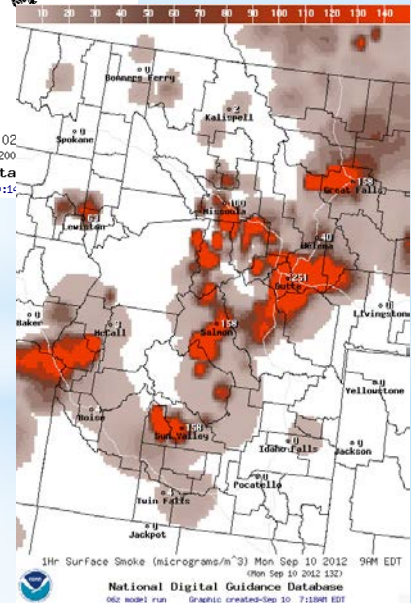


Maximum 1Hr Ozone (PPB) Ending Mon Sep 10 2012 11PM EDT
(Tue Sep 11 2012 03Z)

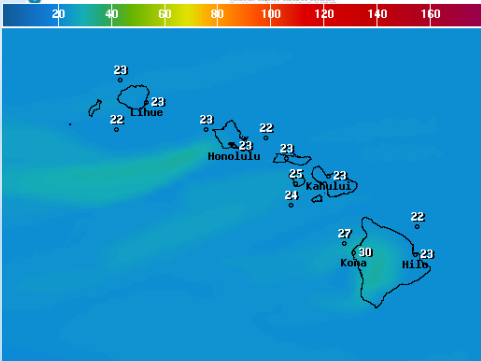
National Digital Guidance Database
06z model run Graphic created-Sep 10 7:25AM EDT



Smoke (micrograms/m³) Tue Sep 02
(Tue Sep 02 200)
Experimental
National Digital Guidance Data
06z model run Graphic created-Sep 02 10:15



1Hr Surface Smoke (micrograms/m³) Mon Sep 10 2012 9AM EDT
(Mon Sep 10 2012 13Z)
National Digital Guidance Database
06z model run Graphic created-Sep 10 7:18AM EDT



Maximum 1Hr Ozone (PPB) Ending Wed Sep 12 2012 12AM EDT
(Wed Sep 12 2012 04Z)

National Digital Guidance Database
06z model run Graphic created-Sep 10 5:15AM EDT

Air Quality Forecaster Focus Group Workshop
September 2018

David Miller

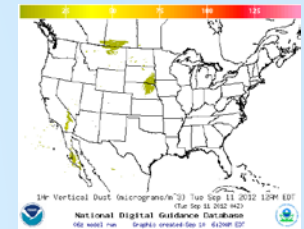
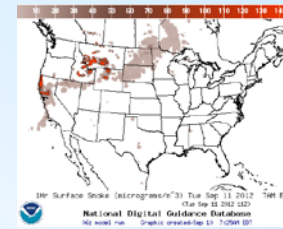
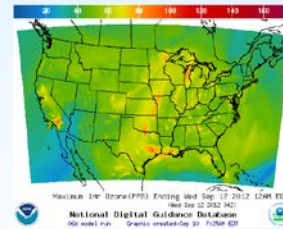
NWS Meteorological Development Laboratory

Air Quality Images on the Web

(<https://airquality.weather.gov/>)

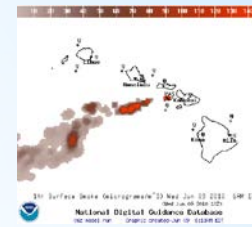
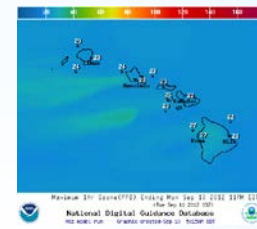
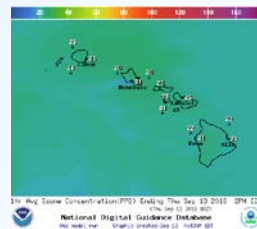
❖ CONUS Operational Products

- 1hr/8hr Average Ozone Concentration
- Maximum 1hr/8hr Ozone Concentration
- 1hr Average Surface Smoke
- 1hr Average Vertical Smoke Integration
- 1hr Surface Dust Concentration
- 1hr Vertical Dust Concentration



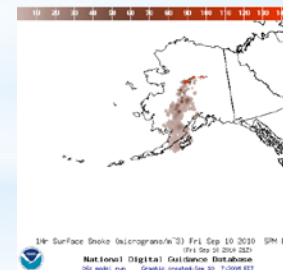
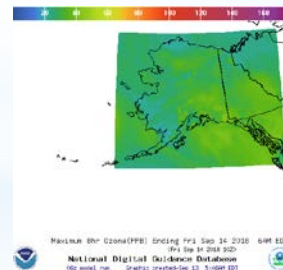
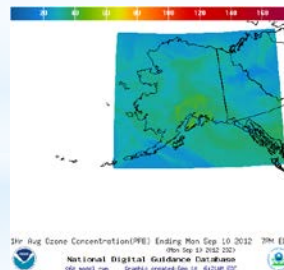
❖ Hawaii Operational Products

- 1hr/8hr Average Ozone Concentration
- Maximum 1hr/8hr Ozone Concentration
- 1hr Average Surface Smoke
- 1hr Average Vertical Smoke Integration



❖ Alaska Operational Products

- 1hr/8hr Average Ozone Concentration
- Maximum 1hr/8hr Ozone Concentration
- 1hr Average Surface Smoke
- 1hr Average Vertical Smoke Integration



Upcoming Air Quality Image Implementation Changes

- * - Display of bias-corrected ozone will replace display of raw model ozone
- * - Alaska and Hawaii Maximum 1 hour and 8 hour ozone time ranges will align with CONUS time ranges ending at 05Z and 12Z, respectively, for 06Z and 12Z cycles)
- * - Tentatively scheduled for October 2018 (barring operational considerations)

Next Generation of AQ Display on the Web

- * - MDL developed a prototype next generation Air Quality web display on the NWS Internet Dissemination System (NIDS) several years ago. Unfortunately, competing priorities have prevented the NWS from releasing it operationally.
- * - MDL is now making new developmental versions of Air Quality web display pages available for internal comment on its development web servers. Although not supported 24/7, these displays can provide timely updates for new display capabilities and new Air Quality data such as PM2.5.
- * - These developmental AQ web pages will feature:
 - * -- Zoom, roam, and data interrogation at a point.
 - * -- Faster data refresh
- Additional potential capabilities
 - * -- Data graphing capability (prototyped)
 - * -- Color-coded table listing of elements at a point (prototyped)
 - * -- Expansion of NWS XML/SOAP Services to include Air Quality Data
- * - Our intention is to make these developmental web pages available for internal comment within NOAA and to “white-listed” government partners.

Next Generation of AQ Possibilities

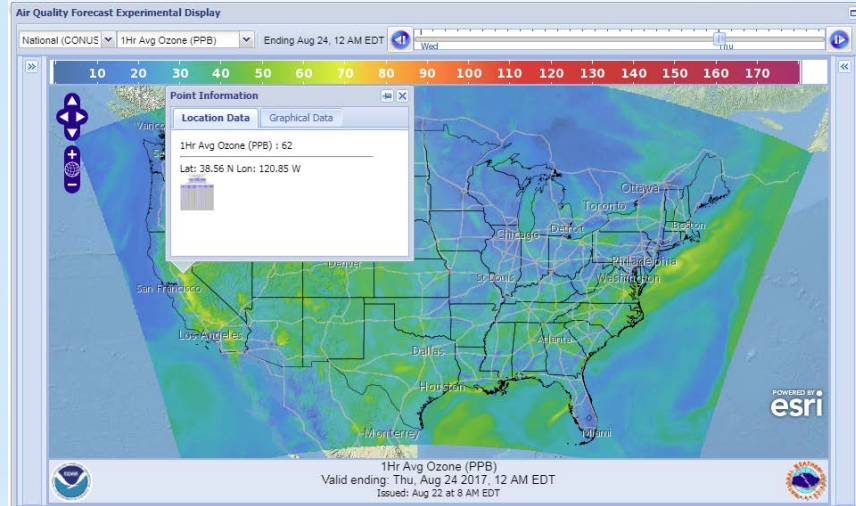
Air Quality Forecast Guidance

Airquality.weather.gov - Air Quality Forecast Forecast Guidance

National Weather Service

National Headquarters

Below is a proposed replacement of the National Weather Service Air Quality Forecast Guidance Page, a product of the National Digital Guidance Database. Comments are encouraged and can be done by taking our survey. Assistance with using this experimental product can be found by clicking here or on the Page Help Link below the map.



Air Quality Forecast Guidance for Latrobe, CA

Displayed below are NOAA-EPA Air Quality Forecast Guidance values for

latitude 38.57 N, longitude 120.90 W.

Ozone concentrations are presented in parts per billion (PPB).

Public comments and suggestions are encouraged.

A FAQ page is available.

More information.

24hr Maximum Ending	Maximum 1 Hour Average Ozone Concentration (PPB)	Maximum 6 Hour Average Ozone Concentration (PPB)
Tomorrow (Ending 09/24, 4Z)	80	64

*Due to grid interpolation methods, the maximum 1- and 6-hour ozone concentration values may have values slightly higher or lower than those of the corresponding hourly ozone concentrations.

Ozone Ending Time (Local Time)	1 Hour Average Ozone Concentration (PPB) 1Z Model Run	6 Hour Average Ozone Concentration (PPB) 1Z Model Run	Smoke Ending Time (Local Time)	1 Hour Surface Smoke (ugm ³) 06Z Model Run	1 Hour Column Integrated Smoke (ugm ³) 06Z Model Run	Dust Ending Time (Local Time)	1 Hour Surface Dust (ugm ³) 1Z Model Run	1 Hour Column Integrated Dust (ugm ³) 1Z Model Run
Tue, 22 Aug 09 PM	60		Tue, 22 Aug 08 PM	0	1	Tue, 22 Aug 08 PM	0	0
Tue, 22 Aug 09 PM	56		Tue, 22 Aug 09 PM	0	1	Tue, 22 Aug 09 PM	0	0
Tue, 22 Aug 10 PM	50		Tue, 22 Aug 10 PM	0	1	Tue, 22 Aug 10 PM	0	0
Tue, 22 Aug 11 PM	43		Tue, 22 Aug 11 PM	0	1	Tue, 22 Aug 11 PM	0	0
Wed, 23 Aug 12 AM	37		Wed, 23 Aug 12 AM	0	1	Wed, 23 Aug 12 AM	0	0
Wed, 23 Aug 01 AM	31		Wed, 23 Aug 01 AM	0	1	Wed, 23 Aug 01 AM	0	0
Wed, 23 Aug 02 AM	26		Wed, 23 Aug 02 AM	0	2	Wed, 23 Aug 02 AM	0	0
Wed, 23 Aug 03 AM	22		Wed, 23 Aug 03 AM	0	6	Wed, 23 Aug 03 AM	0	0
Wed, 23 Aug 04 AM	19		Wed, 23 Aug 04 AM	0	10	Wed, 23 Aug 04 AM	0	0
Wed, 23 Aug 05 AM	17		Wed, 23 Aug 05 AM	0	8	Wed, 23 Aug 05 AM	0	0
Wed, 23 Aug 06 AM	16		Wed, 23 Aug 06 AM	0	8	Wed, 23 Aug 06 AM	0	0
Wed, 23 Aug 07 AM	16		Wed, 23 Aug 07 AM	0	5	Wed, 23 Aug 07 AM	0	0
Wed, 23 Aug 08 AM	20		Wed, 23 Aug 08 AM	0	4	Wed, 23 Aug 08 AM	0	0
Wed, 23 Aug 09 AM	25		Wed, 23 Aug 09 AM	0	1	Wed, 23 Aug 09 AM	0	0
Wed, 23 Aug 10 AM	29		Wed, 23 Aug 10 AM	0	2	Wed, 23 Aug 10 AM	0	0
Wed, 23 Aug 11 AM	40		Wed, 23 Aug 11 AM	0	1	Wed, 23 Aug 11 AM	0	0
Wed, 23 Aug 12 PM	48		Wed, 23 Aug 12 PM	0	1	Wed, 23 Aug 12 PM	0	0
Wed, 23 Aug 01 PM	52		Wed, 23 Aug 01 PM	0	1	Wed, 23 Aug 01 PM	0	0
Wed, 23 Aug 02 PM	56		Wed, 23 Aug 02 PM	0	2	Wed, 23 Aug 02 PM	0	0
Wed, 23 Aug 03 PM	60		Wed, 23 Aug 03 PM	0	0	Wed, 23 Aug 03 PM	0	0
Wed, 23 Aug 04 PM	63		Wed, 23 Aug 04 PM	0	1	Wed, 23 Aug 04 PM	0	0
Wed, 23 Aug 05 PM	77		Wed, 23 Aug 05 PM	0	0	Wed, 23 Aug 05 PM	0	0
Wed, 23 Aug 06 PM	80		Wed, 23 Aug 06 PM	0	0	Wed, 23 Aug 06 PM	1	0
Wed, 23 Aug 07 PM	70		Wed, 23 Aug 07 PM	0	1	Wed, 23 Aug 07 PM	1	1

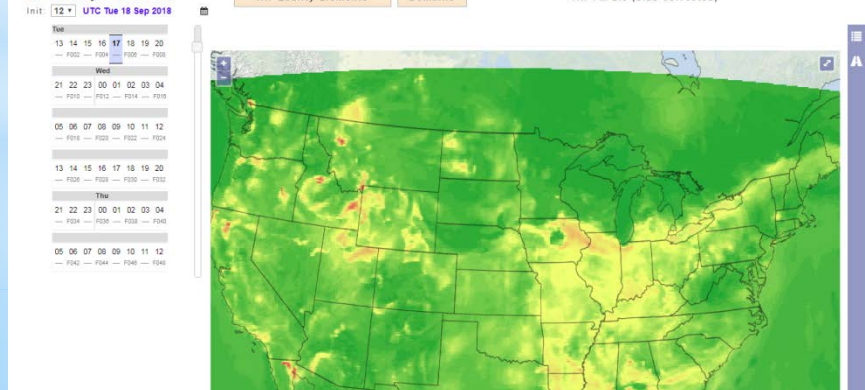
NATIONAL WEATHER SERVICE

Air Quality Web Viewer

Init 12 UTC Tue 18 Sep 2018

Air Quality Elements Domains

1HR PM 2.5 (bias-corrected)



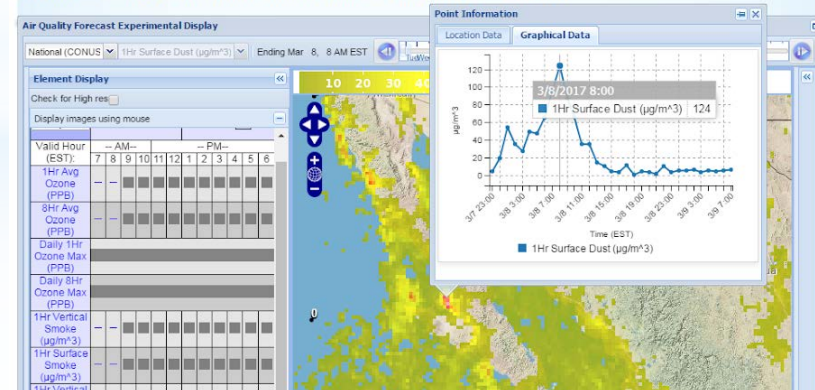
Air Quality Forecast Guidance

Airquality.weather.gov - Air Quality Forecast Forecast Guidance

National Weather Service

National Headquarters

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Air Quality Guidance:

Data access from weather.gov

❖ Graphical Ozone & Smoke Guidance Displays:

<https://airquality.weather.gov/>

<https://airquality.weather.gov/expr> (when data is present)

❖ GRIB2 Data Download:

<ftp://tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndgd/GT.aq/AR.conus>

<ftp://tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndgd/GT.aq/AR.alaska>

<ftp://tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndgd/GT.aq/AR.hawaii>

<ftp://tgftp.nws.noaa.gov/SL.us008001/ST.expr/DF.gr2/DC.ndgd/GT.aq/AR.conus> (when data available)

❖ Web Questions, Suggestions:

Email David.T.Miller@noaa.gov