The background of the slide features a repeating pattern of the AirNow Tech logo. Each logo consists of the word "AirNow" in a blue, sans-serif font, with a stylized blue arc above it. Below "AirNow" is a horizontal bar with a color gradient from yellow to red, and the word "Tech" in a smaller, blue font below that.

AirNow-Tech Update

Robert Elleman
EPA Region 10

Presented to 2013 NW-AIRQUEST Meeting

AirNow-Tech

- **Real-time data from U.S. and Canada**
 - Concentration in ppb or $\mu\text{g}/\text{m}^3$
 - AQI info via map colors and for 8-hr ozone
- **Geared towards technical people like us**
- **User login required**
 - Available to any aq agency staff and contractors
 - Allows for sharing preliminary / qualitative data
- **Main advantage is that it aggregates data from multiple agencies, but also some nifty features**
- **Developers are open to suggestions, within reason**

Tables and Graphs

- Can save queries and use as shortcuts for future
- Filter by QC code, preliminary vs. regulatory, etc.

My Queries

Select:

Name:

Display Settings

Date Range: Last Days to

Display: Graph
 Table

Filter: By QC Code
 By Source

Query Settings

Query Type:

Site(s): Site Selector

Filtered Data Set(s):

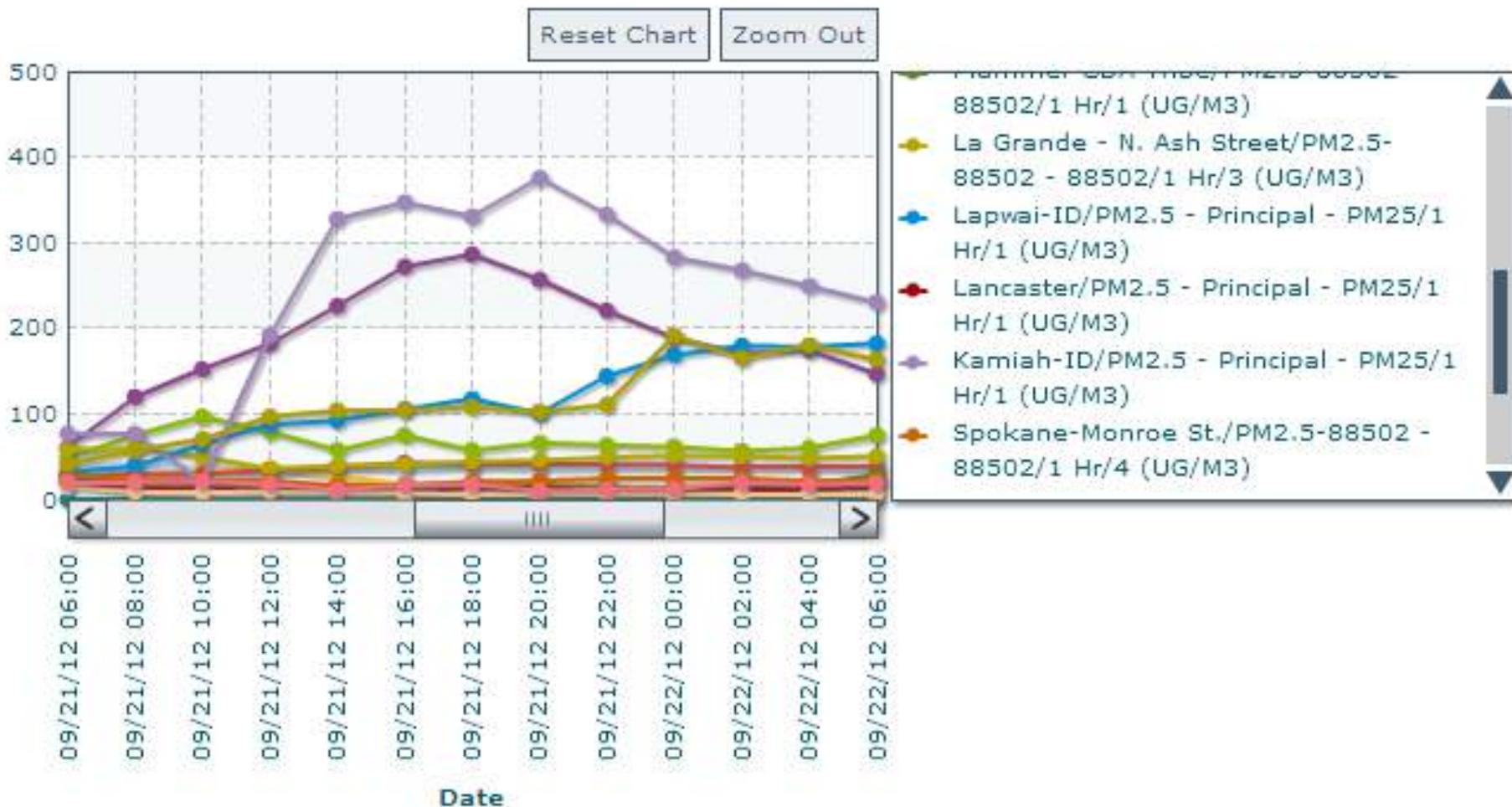
Selected Data Set(s):
Pocatello Garrett and Gould/PM2.5-88502 - 88502/1 Hr/1
Portland - Sauvie Island/PM2.5 - Principal - PM25/1 Hr/1
Portland - Sauvie Island/PM2.5-88502 - 88502/1 Hr/3
Eugene - Amazon Park/PM2.5-88502 - 88502/1 Hr/1

Run Update Delete CSV Export

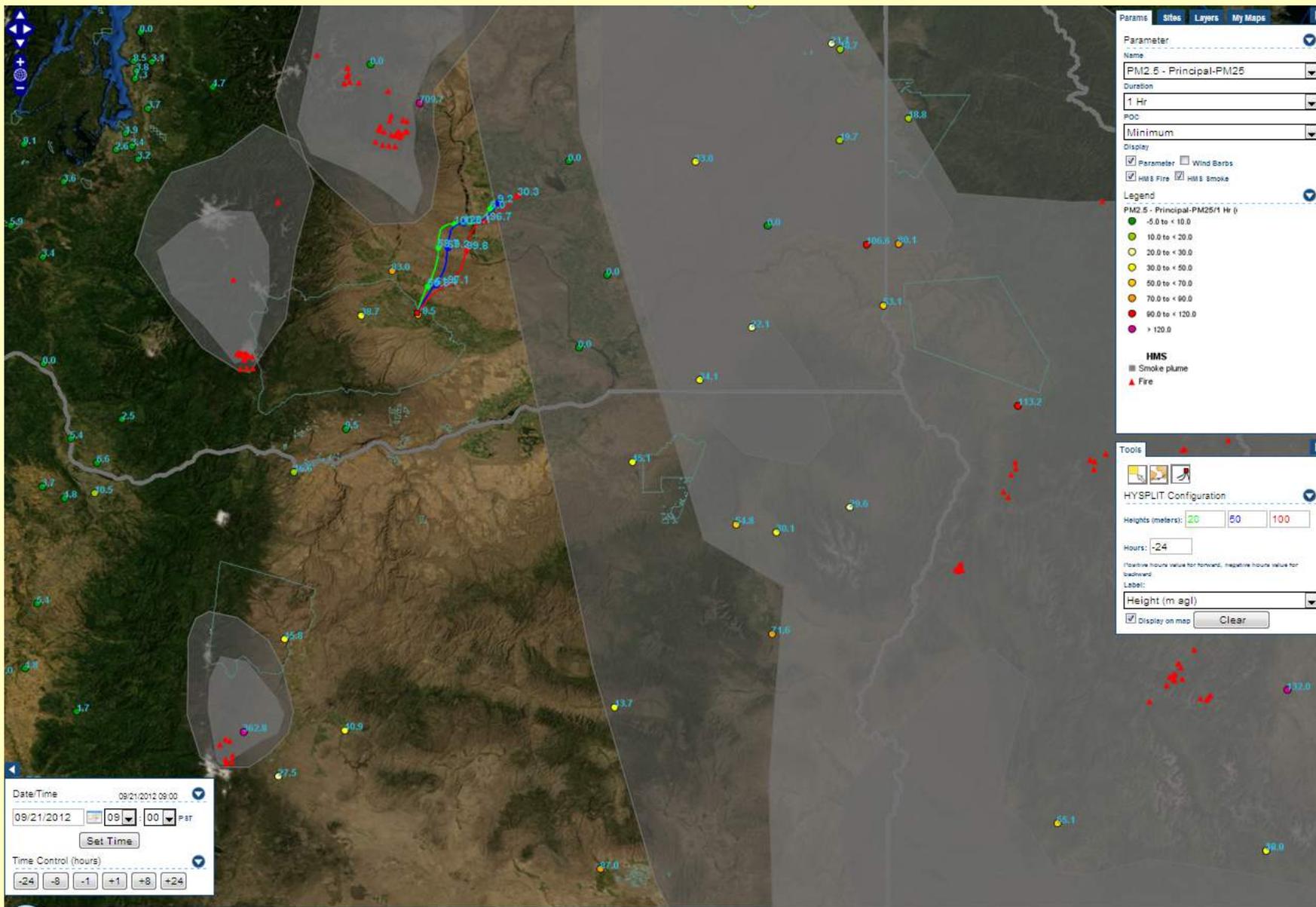
Data Format #1: Tables

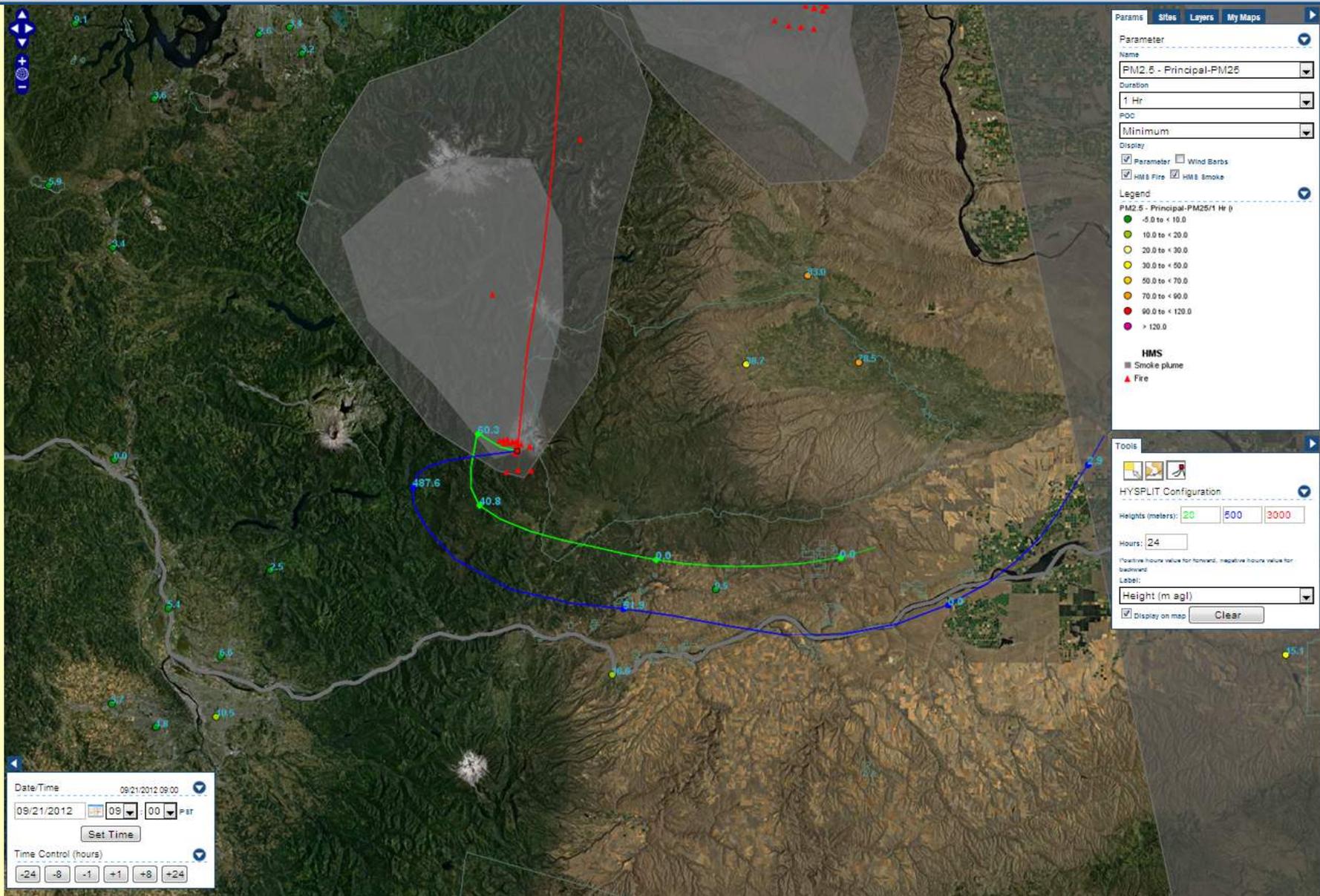
Site/Source AQS/Param/POC	Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Average	Max	
Aberdeen-Divisi/530272002/PM2.5-88502/4	05/27/13	3	2.5	2	1.9	1.9	1.9	1.7	1.5	1.3	1.5	1.9	2.1	1.5	2	3	3.1	2.6	2.3	2.4	2.9	2.2	1.9	2.6	2.7	2.18	3.1	
Aberdeen-Divisi/530272002/PM2.5-88502/4	05/28/13	1.6	1.3	1.5	1.3		1.3	1.7	1.7	1.7	1.9			1.3	1.4	1.4	1.6	1.8	1.6	1.7	1.9	3	2.8	3.1	3.2	1.85	3.2	
Aberdeen-Divisi/530272002/PM2.5-88502/4	05/29/13	2.9	2.1	1.7	1.6	1.6	1.7	1.8	2.1																	1.94	2.9	
Airway Heights-/530639999/PM2.5-88502/3	05/27/13	5.1	5.3	4.1	5.4	4.3	2.6	1.9	2.6	1.3	2.2	1.2	1	1	5	8.7	2.7	2.1	5.5	7.1	5	4.6	4.5	3	4.3	3.77	8.7	
Airway Heights-/530639999/PM2.5-88502/3	05/28/13	3.3	1.9	2.8	3.7		2.8	2.8	3.1	3.8				3.6	3.7	6.6	0.9	4.6	1.4	3.9	3.6	3.8	5	5.7	1.1	3.41	6.6	
Airway Heights-/530639999/PM2.5-88502/3	05/29/13	1.2	1.9	2.6	2.9	2.9	5.6	8.4	6.2																	3.98	8.4	
Albany - Calapo/410430009/PM2.5-88502/3	05/27/13	1.9	2.1	2.4	2.3	2.4	2.3	3.1	2.3	1.9	1.9	2	1.8	1.5	1.4	1.5	1.4	1.4	1.5	1.5	1.6	1.3	1.5	1.6	1.6	1.84	3.1	
Albany - Calapo/410430009/PM2.5-88502/3	05/28/13	1.5	1.6	1.5	1.8	1.8	2	1.7	1.5	1.4	1.4	1.7	1.5	1.5	1.6	1.7	1.8	1.9	1.9	2.1	2.1	2.4	3.3	3	2.9	1.9	3.3	
Albany - Calapo/410430009/PM2.5-88502/3	05/29/13	2.5	2.7	2.5	2.2	2	1.5	1.4	1.5																	2.04	2.7	
Anacortes-202 A/530570011/PM2.5-88101/3	05/27/13	6.6	8.4	6.5	6.9	6.4	10.9	7.6	5	3.2	5.5	5.9	5.7	6.8	6.6	5.3	5.9	5.3	6.7	4.5	5.4	5.9	5.5	5.7	5.2	6.14	10.9	
Anacortes-202 A/530570011/PM2.5-88101/3	05/28/13	5.3	5.6	3	5.4		5	4.2	3.6	6.2	6.1			8	5	4	6.6	7.6	8	6.9	6.9	6.1	8.2	9	6.4	6.05	9	
Anacortes-202 A/530570011/PM2.5-88101/3	05/29/13	6.7	6.7	8.2	6.8	4.5	5.3	5.8	6.5																	6.31	8.2	
Anacortes-Barth/530579999/PM2.5-88502/4	05/27/13	0.7	0.7	0.6	0.5	0.2	0.1	0.1	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.14	0.7	
Anacortes-Barth/530579999/PM2.5-88502/4	05/28/13	0.1	0	0.1	0	0	0.1	0.1	0.2	0.1	0			0.1	0	0	0	0	0.2	0.3	0.2	0.2	0.3	0.4	0.3	0.12	0.4	
Anacortes-Barth/530579999/PM2.5-88502/4	05/29/13	0.2	0.2	0.4	0.5	0.6	0.5	0.2	0.3																	0.38	0.6	
Baker City - Fo/410010004/PM2.5-88502/3	05/27/13	3.4	3	3.4	3	3.4	3.4	3.4	3.4	3.4	3	3	3	3	3	3.7	4.7	5	3.4	3.7	7.3	3	3.7	4.4	6.3	3.75	7.3	
Baker City - Fo/410010004/PM2.5-88502/3	05/28/13	5.3	5	3	2.4	3.4	3.7	2.4	2.4	2.7	3	2.4	2.4	2.7	2.7	2.7	2.4	2.7	2.7	2.7	3.4	6	6	3.7	3.4	3.3	6	
Baker City - Fo/410010004/PM2.5-88502/3	05/29/13	3	3	3	3	3.7	3.7	6	7																	4.05	7	
Beaverton - Hig/410670111/PM2.5-88502/3	05/27/13	1.7	1.7	1.6	1.7	1.8	2.1	2.2	2.1	1.9	1.7	1.6	1.4	1.5	1.7	2.1	2.3	2	1.7	1.2	1.3	1.4	1.7	1.6	1.5	1.73	2.3	
Beaverton - Hig/410670111/PM2.5-88502/3	05/28/13	1.6	1.4	1.5	1.5	1.3	1.5	1.8	1.8	1.4	1.2	1.5	1.2	1.3	1.4	1.4	1.6	2.1	2	1.6	1.8	3.3	3	3.3	3.8	1.84	3.8	
Beaverton - Hig/410670111/PM2.5-88502/3	05/29/13	3.5	3.1	2.8	2.4	2.1	1.6	1.4	1.3																	2.28	3.5	
Bellevue-Bellev/530330037/PM2.5-88502/4	05/27/13	1.3	1.2	1.3	1.1	1	1	1.1	1.1	1	1.1	1.3	1.5	1.6	1.5	1.4	1.1	1.1	1.6	2.5	1.7	1.3	1.3	1.2	0.9	1.3	2.5	
Bellevue-Bellev/530330037/PM2.5-88502/4	05/28/13	0.7	0.6	0.7	1		1	1.1	1.3	1.4				1.2	1	0.9	1.1	1.7	1.8	2.1	1.7	1.1	1.2	1	0.9	1.17	2.1	
Bellevue-Bellev/530330037/PM2.5-88502/4	05/29/13	1	0.9	1.1	1.3	1.9	1.2	1.1	1.2																	1.21	1.9	
Bend - Pump Sta/410170120/PM2.5-88502/3	05/27/13	2.3	2.3	2.3	2.7	2.7	2.7	2.3	2.3	2	2	1.6	1.6	1.6	1.3	1.3	8.7	20.3	13.9	2.7	2	1.6	1.6	1.3	1.3	3.52	20.3	
Bend - Pump Sta/410170120/PM2.5-88502/3	05/28/13	1.3	1.3	1.3	1.3	1.6	1.3	2	1.3	1.3	1.3	1.6	1.3	1.3	1.6	1.6	1.6	2	2	2	2.3	2.3	2.7	2.3	2.7	1.72	2.7	
Bend - Pump Sta/410170120/PM2.5-88502/3	05/29/13	2.7	3	2	1.6	1.3	1.6	1.6	1.3																	1.89	3	
Bremerton-Spruc/530350007/PM2.5-88101/3	05/27/13	0	0.8	1.4	0.9	0.3	1.3	1.6	1.9	2.1	0.9	1.6	1.6	0.7	0.7	0.7	3.3	1.5	0.7	0.4	0.1	0	0.3	0.3	0.5	0.98	3.3	
Bremerton-Spruc/530350007/PM2.5-88101/3	05/28/13	0	0.1	0.9	0.8	0.6	0.1	0.7	1.8	0.7	0.6	1.5	0.4	1.1	1.9	1.7	0.1	1.3	1.5	0.6	0.2	0	0	0.5	0.6	0.74	1.9	
Bremerton-Spruc/530350007/PM2.5-88101/3	05/29/13	1.1	0.3	2.2	0.8	1	0.4	1.3	0.7																	0.98	2.2	
Burns - Washing/410250003/PM2.5-88502/3	05/27/13	5.7	6.7	3	6.3	8.3	4.7	3	3	3	5	4.4	3.4	3	2.7	2.7	2.4	3.4	2.7	5.3	4	8.6	14.2	7	5.3	4.91	14.2	
Burns - Washing/410250003/PM2.5-88502/3	05/28/13	4	2.7	2.1	2.7	2.4	3.4	2.1	2.1	2.1	2.1	2.1	2.4	2.1	2.4	2.4	2.4	2.4	2.4	3	4.7	8.3	11.6	8	7	3.62	11.6	
Burns - Washing/410250003/PM2.5-88502/3	05/29/13	3.4	3.7	3.7	4.7	3.7	3.4	2.1	2.1																	3.35	4.7	
Cave Junction F/410330036/PM2.5-88502/3	05/27/13	2	2	1.6	1.6	1.6	1.6	1.6	1.6	1.3	2	3	1.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.6	1.6	1.6	1.6	1.6	3
Cave Junction F/410330036/PM2.5-88502/3	05/28/13	1.3	1.3	1.3	1.3	1.3	1.6	1.3	1.6	1.3	1.3	1.6	2	2	2	2	2	2.3	2.3	2.3	2.3	2.3	2.3	2	1.6	1.75	2.3	
Cave Junction F/410330036/PM2.5-88502/3	05/29/13	3.6	3.3	1.6	1.3	1.3	1.6	1.3	1.3																	1.91	3.6	

Data Format #2: Graphs



Data Format #3: Maps





Email Reports and Other User Settings

AirNow-Tech can send a customizable data summary as an email

My Agency's Forecasts
 My Agency's Realtime Observed
 My Agency's Polling Summary

Home Page Preferences

Site List Management

PNW 5/29/2013

- 410591003 - Hermiston - Municipal Airport
- 410610119 - La Grande - N. Ash Street
- 410630001 - Enterprise - US Forest Service
- 410650007 - The Dalles - Cherry Heights
- 410670004 - Hillsboro - Hare Field
- 410670111 - Beaverton - Highland Park School
- 410671004 - Sherwood - Lasich Ln
- 530010003 - Ritzville-Alder St
- 530030004 - Clarkston-13th St
- 530050002 - Kennewick-Metaline
- 530070006 - Wenatchee-Alaska Way

Total: 199 sites

Email Report Management

Report Name:

Site List:

Query:

Time Interval:

Usefulness of AirNow-Tech

Rob's opinion

- **Can easily combine multiple state/local/tribal networks into one analysis**
- **Mapping and trajectory feature is added value for PNW**
- **Quick look at real-time data using preset queries**
- **Adds functionality viewing multiple sites / times at once**
 - **On ODEQ site, you can get all sites for one hour or one site for multiple hours... but not both**
 - **Basically the same story for Idaho**
 - **Washington's site can mix sites and times but not as compact or as customizable**