



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

This forecast was prepared by the Idaho Department of Environmental Quality (DEQ) to provide wildfire smoke and air quality information to state, tribal, and federal agencies who respond to wildfire smoke events. Air quality advisories issued by DEQ are not applicable to the five Indian reservations in Idaho. Contact information for participating agencies and links to air quality monitoring and advisory information can be found at the Idaho Smoke Information Blog <http://idsmoke.blogspot.com/>.

Updated 10am MDT Monday, August 8, 2016

Valid through Noon MDT Tuesday, August 9, 2016

Smoke Outlook

Air quality is forecast to continue to remain in the Good to Moderate air quality category across the state today. Salmon and Franklin are currently reading in the Moderate Category. In north Idaho, monitor readings are all currently in the Good Category. Expect higher readings in the evening and early morning before improving during the day.

Today, an upper level lower pressure system will approach from the west and is expected to keep showers and thunderstorms west of Idaho; however there is a chance for thunderstorms over the west central mountains. Wind speeds will be in the 5-10 mph range from the southwest with northwest winds across the Treasure Valley, northern Magic Valley, LC Valley, and northeast winds over the Camas Prairie. Tomorrow will see widespread showers across northern and central Idaho as the upper level low pressure system moves over central Idaho by the afternoon. Wind directions over northern Idaho will be dependent on the positioning of the upper level low pressure system, but generally will be from the west-southwest. Wind speeds at the surface will range from 10-15 mph in southern Idaho and 5-10 mph in northern Idaho. Gusts up to 30 mph are possible from the Arco Desert east to Island Park.

Smoke impacts today are expected to be more localized with continued cooler temperatures. Brief periods of heavy, localized smoke should be expected in the morning before the inversion lifts around 11am today. The regions that should expect to see smoke this evening include the Upper Snake River Plain from the Arco Desert to the Mud Lake area. Impacts are expected to stay north of the Pocatello region. The southern extent of the Lower Pressure Valley will also see impacts from fires burning in eastern Oregon today. Tuesday sees much of the same with the Lower Treasure Valley seeing impacts as well as transport from the Pioneer fire into the Salmon area in the evening. During the day, there will be limited impacts along the Owyhee and Canyon/Ada County lines while the Magic Valley will likely see elevated smoke.

DEQ Air Quality Forecast and Cautions:

- The Idaho Falls Regional Office has issued a Stage 1 Forecast and Caution for **Custer County**. Valid through Monday, August 8th at 10:00 a.m.
- The Boise Regional Office has issued a Stage 1 Forecast and Caution for **Boise County**. Valid through Monday, August 8th at 3:00 p.m.
- Pocatello Regional Office has issued a Stage 1 Forecast and Caution for **Bannock, Bear Lake, Caribou, Franklin, Oneida, and Power Counties**. Valid through Monday, August 8th at 10:00 a.m.

Significant Fires Affecting Idaho:

Incident/Loc.	Size/Growth/Containment					Fuels	Fire activity	Cause/Start Date
<u>Cedar Fire</u> 2 Miles Northwest of Elk Summit	2,364 ac		Unkn	Cnt.	Unkn	Timber and grass	Single and group tree torching with short uphill crown runs. Managed for resource benefit	17-Jul-16 Lightning
<u>Pioneer</u> 5 Miles North of Idaho City	63,362 ac	2,480 ac	25%	Cnt.	9/30	Timber	Extreme fire behavior with group torching, spotting, and running.	18-Jul-16 Undetermined
<u>Roaring Lion</u> 5 Miles southwest of Hamilton, MT	8,262 ac	13 ac	30%	Cnt.	9/30	Timber and grass	Moderate fire behavior with isolated torching and flanking.	31-Jul-16 Undetermined
<u>Rail Fire</u> 10 Miles Southwest of Unity, Or	10,482 ac	442 ac	10%	Cnt.	8/31	Timber	Moderate fire behavior with single tree torching, uphill runs and flanking.	31-Jul-16 Undetermined
<u>Broad Mouth</u> 15 Miles Northwest of Tremonton, UT	20,614 ac		42%	Cnt.	8/14	Brush and grass	Active fire behavior.	3-Aug-16 Human-caused
<u>Dry Creek</u> 6 Miles NW of Stanley, ID	1,200 ac	471 ac	0%	Cnt.	8/11	Timber	Active fire behavior with torching and wind-driven runs.	6-Aug-16 Lightning
<u>Lone Pine</u> 10 Miles East of Fort Hall, ID	9,600 ac		35%	Cnt.	8/9	Brush and grass	Extreme fire behavior with wind-driven runs.	7-Aug-16 Lightning
<u>Rough</u> 14 Miles NE of Lowman, ID	300 ac		0%	Cnt.	9/12	Timber and grass	Active fire behavior with torching.	7-Aug-16 Lightning

View real time smoke monitoring at: http://www.airnow.gov/index.cfm?action=topics.smoke_wildfires

View DEQ near-real time monitoring at: <http://airquality.deq.idaho.gov/>

The USFS installed monitors near Stanley, Idaho and Lowman, Idaho. Idaho DEQ has installed temporary monitors in Fairfield and Boise (Garden City), Idaho. The information can be found at <http://smoke.airfire.org/monitoringReport/#/?date=LATEST&productType=plotTable>.

- Stanley, ID monitor is Stanley-Idaho 75
- Lowman, ID monitor is Lowman-Jolene Drive
- Fairfield, ID monitor is Fairfield-Soldier Road
- Boise, ID monitor is Garden City-Alworth Street

Monitoring Summary-Yesterday's Air Quality

Below is a summary for the air quality for yesterday (This information includes monitoring information for areas outside the 5 Indian Reservation Boundaries in Idaho unless otherwise specified).

8/7/2016					
	PM _{2.5} maximum concentration (µg/m ³)				PM _{2.5} AQI
Monitor/Location	1-hr	3-hr	8-hr	24-hr	24-hr
DEQ Coeur d'Alene Regional Office					
Lancaster	16	13	12	11	45
Sandpoint	10	9	9	7	28
St Maries	17	12	10	6	26
Pinehurst	12	11	10	7	30
Mt. Hall	10	9	9	9	37
Porthill	9	9	9	9	37
Coeur d'Alene Tribe					
Plummer	24	17	14	9	33
Kootenai Tribe					
Bonnors Ferry	9	9	9	8	33
DEQ Lewiston Regional Office					
Juliaetta	9	9	9	8	31
Moscow	9	6	8	5	22
Potlatch	8	9	9	7	30
Lewiston	17	10	8	6	24
Grangeville	9	10	11	5	22
Cottonwood	9	9	9	7	28
Nez Perce Tribe					
Lapwai	6	5	5	3	13
Reubens	0	0	0	0	0
Kamiah	12	10	12	7	28
DEQ Boise Regional Office					
McCall	18	12	11	4	18
Idaho City	96	88	57	21	70

Garden Valley	20	16	10	5	23
Weiser	104	49	22	12	51
Nampa	36	38	24	14	54
Meridian	12	9	9	6	23
Boise					
DEQ Twin Falls Regional Office					
Ketchum	9	8	7	4	17
Twin Falls	9	10	8	4	18
Paul	10	9	7	6	27
DEQ Pocatello Regional Office					
Pocatello	8	7	5	4	16
Soda Springs					
Franklin	21	11	9	5	19
DEQ Idaho Falls Regional Office					
Idaho Falls	11	10	9	9	35
Salmon	13	8	8	6	25
Rexburg	7	6	5	5	19
Fire Cache Monitors					
Stanley	204	126	73	64	156
Lowman	68	57			
Fairfield	31	21	16	10	41
Boise - Garden City	22	18	16	9	39

Smoke forecasts are dependent on predicted fire growth and weather. If conditions change unexpectedly, impacts could occur. When visibility starts to go below 5 miles, sensitive groups should minimize outdoor activities. Everyone else should minimize prolonged or physical activity outdoors. Visit the Idaho Smoke Blog for more information at <http://idsmoke.blogspot.com/>

Your eyes are your best tools to determine if it's safe to be outside. Even if you smell smoke, the air quality may still be good.

AQI Category	Visibility (miles)
Good	11+
Moderate	6-10
Unhealthy for Sensitive Groups	3-5
Unhealthy	1½ - 2¾
Very Unhealthy	1-1¼
Hazardous	Less than 1

How to estimate air quality based on visibility for areas without an air quality monitor or airport visibility estimate:

- a. Face away from the sun.
- b. Determine the limit of your visible range by looking for targets at known distances (miles).
- c. Visible range is when an object you can easily see in the distance disappears.
- d. Use the visibility values above to determine the local wildfire smoke category.