

Air Quality Division

Air Monitoring  
& Quality Assurance  
Program

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# Exceptional Events Waiver Request

For  
PM<sub>2.5</sub> Events During  
the  
2023 and 2023 Wildland  
Fire Seasons  
in the  
Fairbanks North Star Borough,  
Alaska

-Appendix H-  
Air Quality Advisories

December 8, 2023

# Contents

## **2022 Air Quality Advisories**

Sunday June 12, 2022 .....	3
Tuesday June 14, 2022.....	6
Wednesday June 22, 2022.....	9
Monday June 27, 2022 .....	12
Thursday June 30, 2022 .....	15
Tuesday July 5, 2022 .....	18
Friday July 8, 2022.....	21
Tuesday July 12, 2022 .....	24

## **2023 Air Quality Advisories**

Sunday July 23, 2023.....	28
Tuesday July 25, 2023.....	31
Thursday July 27, 2023.....	34
Sunday July 30, 2023 .....	37
Tuesday August 1, 2023.....	40
Thursday August 3, 2023 .....	43
Sunday August 6, 2023 .....	46
Tuesday August 8, 2023 .....	49
Thursday August 10, 2023.....	52
Sunday August 13, 2023 .....	55

# 2022 Air Quality Advisories

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central and Eastern Alaska #2022-F5**  
**Sunday, June 12, 2022**

**LOCATION(S) IMPACTED:** Central and Eastern Alaska will be impacted with wildfire smoke from the large complex of fires located in Southwest and Western Alaska.

**TIME/DATE OF UPDATE:** Sunday June 12, 2022 8:00 AM.

**VALID TIME:** Sunday June 12, 2022 8:00 AM to Tuesday June 14, 2022 4:00 PM, advisory will be issued until end of the event.

**TIME/DATE OF THE NEXT REPORT:** Tuesday June 14, 2022 4:00 PM, if needed.

**ADVISORY:** The large complex of fires just west of the Alaska Range in southwest and western Alaska continues with its explosive growth and produces large amounts of smoke. Winds out of the southwest have transported the smoke along the base of the Alaska Range and into South Central Alaska. Smoke lifted into the atmosphere has made its way into Eastern Alaska. Communities in the shaded yellow area below will see smoke impacts. Conditions support continued fire and smoke production for the advisory period. A weak frontal system, with wetting rains, will be moving through the region Sunday. The fires will see some dampening but not enough to subdue the complex of fires, just a brief pause. Air Quality will vary between **GOOD** and **UNHEALTHY** depending on wind flow and proximity to the fires. In the image below, highlighted yellow area, is the forecasted impacted area associated with this advisory. **See the table below for more guidance on the Air Quality Categories and Cautionary Statements.**



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
Good	None
Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
Unhealthy for Sensitive Groups	People with heart or lung disease, the elderly and children should reduce prolonged or heavy exertion.
Unhealthy	People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion
Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors

When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central and Eastern Alaska #2022-F9**  
**Tuesday, June 14, 2022**

**LOCATION(S) IMPACTED:** Central and Eastern Alaska will be impacted with wildfire smoke from the fires located in Southwest and Western Alaska.

**TIME/DATE OF UPDATE:** Tuesday June 14, 2022 4:00 PM.

**VALID TIME:** Tuesday June 14, 2022 4:00 PM to Thursday June 16, 2022 12:00 PM, advisory will be issued until end of the event.

**TIME/DATE OF THE NEXT REPORT:** Thursday June 16, 2022 12:00 PM, if needed.

**ADVISORY:** Wetting rains calmed the majority of the fires in the southwest that were producing large amounts of smoke. There are still 4-5 large fires in the southwest in close proximity to the Alaska Range along with the Hog Butte and Submarine Creek fires that continue to produce a large amount of smoke. Winds will continue to push smoke into Central and Eastern Alaska through Wednesday morning. A wind shift is occurring in near the Canadian border today, communities will see the air quality gradually increase. The surface smoke will be pushed north and back up along the Brooks Range, communities along the south side of the range will see decreased air quality thru Thursday. Central Alaska will see gradual clearing of the smoke Wednesday night into Thursday morning. Communities in the shaded yellow area below will see smoke impacts. Conditions support continued fire and smoke production for the advisory period. A weak frontal system, with wetting rains, will be moving through the region Sunday. The fires will see some dampening but not enough to subdue the complex of fires, just a brief pause. Air Quality will vary between **GOOD** and **UNHEALTHY** depending on wind flow and proximity to the fires. In the image below, highlighted yellow area, is the forecasted impacted area associated with this advisory. See **the table below for more guidance on the Air Quality Categories and Cautionary Statements.**



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
Good	None
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Unhealthy	People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion
Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors



When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central and Eastern Alaska #2022-F14**  
**Wednesday, June 22, 2022**

**LOCATION(S) IMPACTED:** Central and Eastern Alaska will be impacted with wildfire smoke from numerous fires in the region.

**TIME/DATE OF UPDATE:** Wednesday June 22, 2022 11:00 AM.

**VALID TIME:** Wednesday June 22, 2022 11:00 AM to Monday June 27, 2022 2:00 PM, advisory will be issued until end of the event.

**TIME/DATE OF THE NEXT REPORT:** Monday June 27, 2022 2:00 PM, if needed.

**ADVISORY:** High pressure will be dominating the region through the weekend. The dry and hot conditions will increase fire behavior and allow for significant growth. Winds will be out of the west in the region, all smoke will be transported to the east. In the afternoon hours smoke will be lifted into the transport winds and carried throughout the region and into Canada. The surface smoke will fill the Tanana Valley reaching down through Tok and also start to linger in the Yukon Flats. On a daily basis, mountain passes will see trapped smoke in the evening and morning hours until drainage winds clear them out mid-morning/afternoon. Communities in the shaded yellow area below will see smoke impacts. Conditions support continued fire and smoke production for the advisory period. Air Quality will vary between **GOOD** and **UNHEALTHY** depending on wind flow and proximity to the fires. In the image below, highlighted yellow area, is the forecasted impacted area associated with this advisory. See the table below for more guidance on the Air Quality Categories and Cautionary Statements.



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
Good	None
Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
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Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors

When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
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0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central and Eastern Alaska #2022-F17**  
**Monday June 27, 2022**

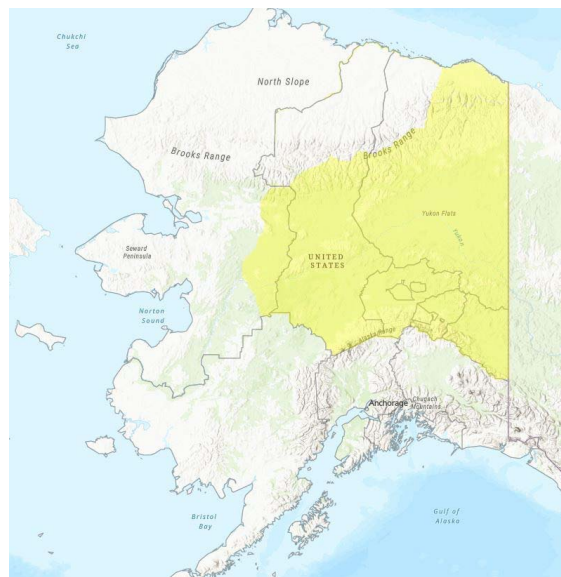
**LOCATION(S) IMPACTED:** Central and Eastern Alaska will be impacted with wildfire smoke from numerous fires in the region.

**TIME/DATE OF UPDATE:** Monday June 27, 2022 2:00 PM.

**VALID TIME:** Monday June 27, 2022 2:00 PM to Thursday June 30, 2022 2:00 PM, advisory will be issued until end of the event.

**TIME/DATE OF THE NEXT REPORT:** Thursday June 30, 2022 2:00 PM, if needed.

**ADVISORY:** Continued hot and dry conditions will keep fire behavior high and allow for significant growth. Upper level winds will be out of the west in the region, all smoke will be transported to the east. Wednesday the upper winds slow and transition out of the southwest. Smoke will move around the dominating high pressure impacting even the northeastern region of the Brooks Range. The surface smoke will remain in the Yukon Flats, the Tanana Valley, and migrating down thru Tok and Northway. Communities in the shaded yellow area below will see smoke impacts. Conditions support continued fire and smoke production for the advisory period. Air Quality will vary between **GOOD** and **UNHEALTHY** depending on wind flow and proximity to the fires. In the image below, highlighted yellow area, is the forecasted impacted area associated with this advisory. See the table below for more guidance on the **Air Quality Categories and Cautionary Statements**.



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
Good	None
Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
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When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

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10+ miles	Good
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0.8 miles or less	Hazardous

**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central and Eastern Alaska #2022-F22**  
**Thursday June 30, 2022**

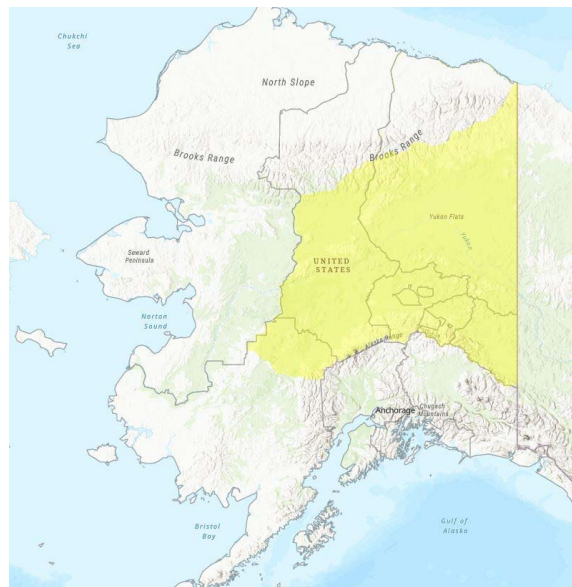
**LOCATION(S) IMPACTED:** Central and Eastern Alaska will be impacted with wildfire smoke from numerous fires in the region.

**TIME/DATE OF UPDATE:** Thursday June 30, 2022 2:00 PM.

**VALID TIME:** Thursday June 30, 2022 2:00 PM to Tuesday July 5, 2022 2:00 PM, advisory will be issued until end of the event.

**TIME/DATE OF THE NEXT REPORT:** Tuesday July 5, 2022 2:00 PM, if needed.

**ADVISORY:** Red Flag Warning (hot, dry, windy conditions) will be valid Friday thru Saturday for portions of the interior. These conditions will allow for continued growth of all fires in the region and also allow growth of new lightning starts. Smoke will remain in the region thru the long weekend. Communities in the shaded yellow area below will see smoke impacts. Conditions support continued fire and smoke production for the advisory period. Air Quality will vary between **GOOD** and **UNHEALTHY** depending on wind flow and proximity to the fires. In the image below, highlighted yellow area, is the forecasted impacted area associated with this advisory. See the table below for more guidance on the Air Quality Categories and Cautionary Statements.



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.



**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

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Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors

When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

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10+ miles	Good
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3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central and Eastern Alaska #2022-F23**  
**Tuesday July 5, 2022**

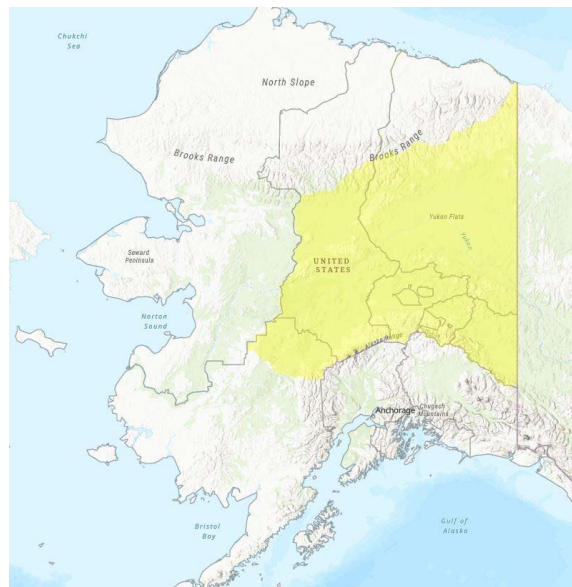
**LOCATION(S) IMPACTED:** Central and Eastern Alaska will be impacted with wildfire smoke from numerous fires in the region.

**TIME/DATE OF UPDATE:** Tuesday July 5, 2022 2:00 PM.

**VALID TIME:** Tuesday July 5, 2022 2:00 PM to Friday July 8, 2022 2:00 PM, advisory will be issued until end of the event.

**TIME/DATE OF THE NEXT REPORT:** Friday July 8, 2022 2:00 PM, if needed.

**ADVISORY:** Continued hot and dry conditions will allow for continued growth of all fires in the region and also allow growth of new lightning starts in the region and Canada. Smoke will remain in the region the foreseeable future. Communities in the shaded yellow area below will see smoke impacts. Conditions support continued fire and smoke production for the advisory period. Air Quality will vary between **GOOD** and **UNHEALTHY** depending on wind flow and proximity to the fires. In the image below, highlighted yellow area, is the forecasted impacted area associated with this advisory. See the table below for more guidance on the Air Quality Categories and Cautionary Statements.



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
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Unhealthy	People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion
Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors

When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central and Eastern Alaska #2022-F26**  
**Friday July 8, 2022**

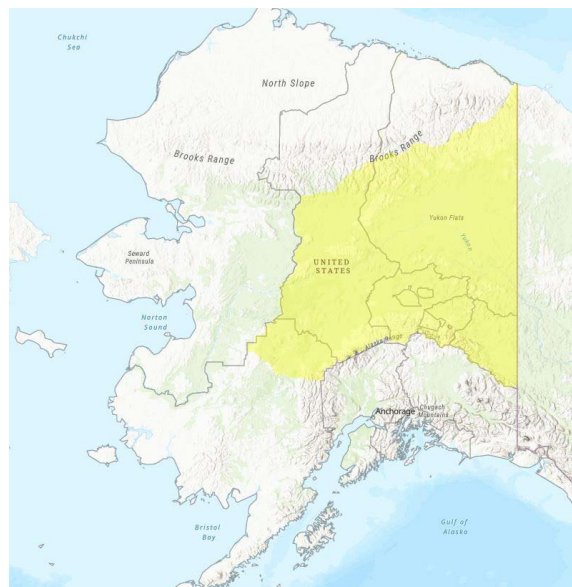
**LOCATION(S) IMPACTED:** Central and Eastern Alaska will be impacted with wildfire smoke from numerous fires in the region. Smoke from the Canadian fires will begin to enter the region.

**TIME/DATE OF UPDATE:** Friday July 8, 2022 2:00 PM.

**VALID TIME:** Friday July 8, 2022 2:00 PM to Tuesday July 12, 2022 2:00 PM, advisory will be issued until end of the event.

**TIME/DATE OF THE NEXT REPORT:** Tuesday July 12, 2022 2:00 PM, if needed.

**ADVISORY:** Red Flag Warnings continue for Eastern Alaska. Hot and dry conditions will allow for continued growth of all fires in the region and also allow growth of new lightning starts. The Canadian Yukon and Northwest Territories have seen explosive starts the past week, elevated smoke from those fires will be transported into Alaska until the winds shift again Sunday evening. Smoke will remain in the region the foreseeable future. Communities in the shaded yellow area below will see smoke impacts. Conditions support continued fire and smoke production for the advisory period. Air Quality will vary between **GOOD** and **UNHEALTHY** depending on wind flow and proximity to the fires. In the image below, highlighted yellow area, is the forecasted impacted area associated with this advisory.



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast the impacted region. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion. See the table below for more guidance on the Air Quality Categories and Cautionary Statements.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

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**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central and Eastern Alaska #2022-F28**  
**Tuesday July 12, 2022**

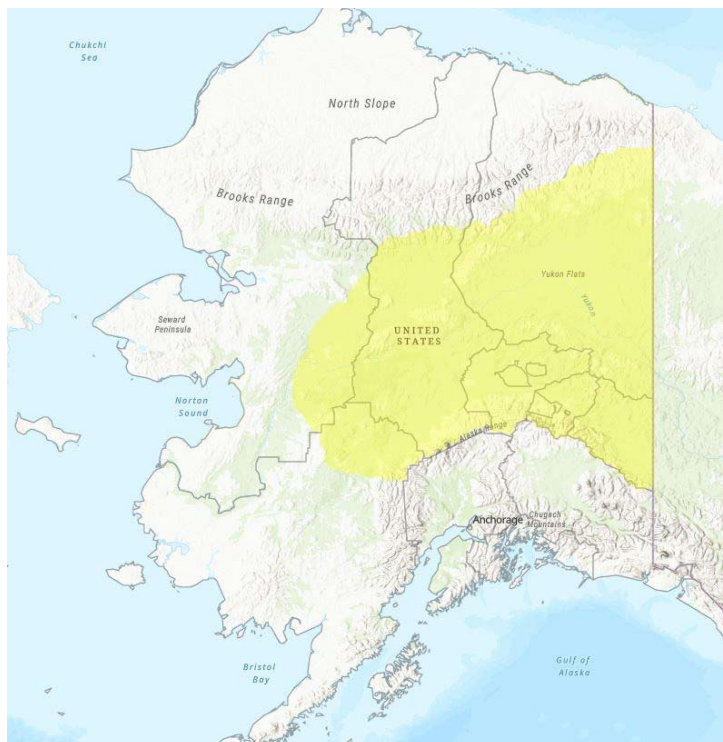
**LOCATION(S) IMPACTED:** Central and Eastern Alaska will be impacted with wildfire smoke from numerous fires in the region.

**TIME/DATE OF UPDATE:** Tuesday July 12, 2022 2:00 PM.

**VALID TIME:** Tuesday July 12, 2022 2:00 PM to Friday July 15, 2022 2:00 PM, advisory will be issued until end of the event.

**TIME/DATE OF THE NEXT REPORT:** Friday July 15, 2022 2:00 PM, if needed.

**ADVISORY:** Weak frontal systems are squeezing and pushing the upper level smoke to east, out of Alaska. Wetting rains to date have not been sufficient enough to dampen the large smoke producers in the region. As clouds move over the fire complexes, smoke will be trapped in the lower levels of the atmosphere and continue to impact all areas of Central and Eastern Alaska throughout the forecast period. Communities in the shaded yellow area below will see smoke impacts. Conditions support continued fire and smoke production for the advisory period. Air Quality will vary between **GOOD** and **UNHEALTHY** depending on wind flow and proximity to the fires. In the image below, highlighted yellow area, is the forecasted impacted area associated with this advisory. See the table below for more guidance on the Air Quality Categories and Cautionary Statements.



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

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**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

# 2023 Air Quality Advisories

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**Division of Air Quality**

**AIR QUALITY ADVISORY**

**Central and Eastern Alaska #2023-F3**

**Sunday July 23, 2023**

**LOCATION(S) IMPACTED:** Upper/Low level smoke from the Canadian fires will be impact Central and Eastern Alaska

**TIME/DATE OF UPDATE:** Sunday July 23, 2023, 7:00 PM

**VALID TIME:** Sunday July 23, 2023, 7:00 PM to Tuesday July 25, 2023, 2:00 PM, advisory will be issued until end of the event.

**TIME/DATE OF THE NEXT REPORT:** Tuesday July 25, 2023, 2:00 PM, if needed.

**ADVISORY:** Fires in Canada continue to burn and intensify. The longwave wind pattern has shifted, allowing smoke from those fires to again migrate into the Central and Eastern region of Alaska.. Majority of the impact will be haze, smoke will start to settle in the higher elevations this evening. There are a few fires in the Yukon Territory that have intensified this afternoon. Those fires have the potential to impact Eastern Alaska with a higher concentration of low level smoke. Communities in the shaded yellow area below will see smoke impacts. Conditions support continued fire and smoke production for the advisory period. Air Quality will vary between **GOOD** and **Unhealthy for Sensitive Groups** depending on wind flow and the amount of smoke that settles into the region. In the image below, highlighted yellow area, is the forecasted impacted area associated with this advisory. See the table below for more guidance on the Air Quality Categories and Cautionary Statements.



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
Good	None
Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
Unhealthy for Sensitive Groups	People with heart or lung disease, the elderly and children should reduce prolonged or heavy exertion.
Unhealthy	People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion
Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors

When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central and Eastern Alaska #2023-F4**  
**Tuesday July 25, 2023**

**LOCATION(S) IMPACTED:** Central and Eastern Alaska.

**TIME/DATE OF UPDATE:** Tuesday July 25, 2023, 2:00 PM

**VALID TIME:** Tuesday July 25, 2023, 2:00 PM to Thursday July 27, 2023, 2:00 PM, advisory will be issued until end of the event.

**TIME/DATE OF THE NEXT REPORT:** Thursday July 27, 2:00 PM, if needed.

**ADVISORY:** The majority of the impact on the region will be haze. New starts, just over the border in the Yukon Territory, Dawson Creek and 60 Mile River fires, are expected to increase in intensity before wetting rains dampen their growth later in the week. Low-level smoke from those fires will move into eastern Alaska. Upper-level smoke still dominates the region; a long wave pattern has the smoke stalled over Alaska and continues to settle/disperse slowly. New fire starts to the northwest/southeast of the Fairbanks North Star Borough will be low-level smoke producers. Wetting rains the next few days should dampen most of the new starts. Communities in the shaded yellow area below will see smoke impacts. Conditions support continued fire and smoke production for the advisory period. Air Quality will vary between **GOOD** and **Unhealthy** depending on the amount of smoke that settles into the region and wind flow in/around the new fires. In the image below, highlighted yellow is the forecasted impacted area associated with this advisory. See the table below for more guidance on the Air Quality Categories and Cautionary Statements.





Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
Good	None
Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
Unhealthy for Sensitive Groups	People with heart or lung disease, the elderly and children should reduce prolonged or heavy exertion.
Unhealthy	People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion
Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors

When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central and Eastern Alaska #2023-F5**  
**Thursday July 27, 2023**

**LOCATION(S) IMPACTED:** Central and Eastern Alaska.

**TIME/DATE OF UPDATE:** Thursday July 27, 2023, 2:00 PM

**VALID TIME:** Thursday July 27, 2023, 2:00 PM to Sunday July 30, 2023, 10:00 AM, advisory will be issued until end of the event.

**TIME/DATE OF THE NEXT REPORT:** Sunday July 30, 2023, 10:00 AM, if needed.

**ADVISORY:** Over 30 new starts in the central interior have filled the region with low level smoke. The fires located in the Yukon Territory continue to burn, smoke from those fires are still moving into the eastern interior. Wetting rains are hit or miss on all fires. Communities in the shaded yellow area below will see smoke impacts. Conditions support continued fire and smoke production for the advisory period. Air Quality will vary between **GOOD** and **Very Unhealthy** depending on the amount of smoke that settles into the region and wind flow in/around the new fires. In the image below, highlighted yellow is the forecasted impacted area associated with this advisory. **See the table below for more guidance on the Air Quality Categories and Cautionary Statements.**



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
Good	None
Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
Unhealthy for Sensitive Groups	People with heart or lung disease, the elderly and children should reduce prolonged or heavy exertion.
Unhealthy	People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion
Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors

When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central and Eastern Alaska #2023-F6**  
**Sunday July 30, 2023**

**LOCATION(S) IMPACTED:** Central and Eastern Alaska.

**TIME/DATE OF UPDATE:** Sunday July 30, 2023, 10:00 AM

**VALID TIME:** Sunday July 30, 2023, 10:00 AM to Tuesday August 1, 2023, 2:00 PM, advisory will be issued until end of the event.

**TIME/DATE OF THE NEXT REPORT:** Tuesday August 1, 2023, 2:00 PM, if needed.

**ADVISORY:** Wetting rains and cloud cover is keeping interior fire activity and low-level smoke production at a minimum. Areas that did not see precipitation will continue burn. Thick upper-level smoke is migrating into the region from Canada. Conditions support continued fire and smoke production for the advisory period. Air Quality will vary between **GOOD** and **Very Unhealthy** depending on the amount of smoke that settles into the region and wind flow in/around the fires. In the image below, highlighted yellow is the forecasted impacted area associated with this advisory. See the table below for more guidance on the **Air Quality Categories and Cautionary Statements**.



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
Good	None
Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
Unhealthy for Sensitive Groups	People with heart or lung disease, the elderly and children should reduce prolonged or heavy exertion.
Unhealthy	People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion
Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors

When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.



**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central and Eastern Alaska #2023-F7**  
**Tuesday August 1, 2023**

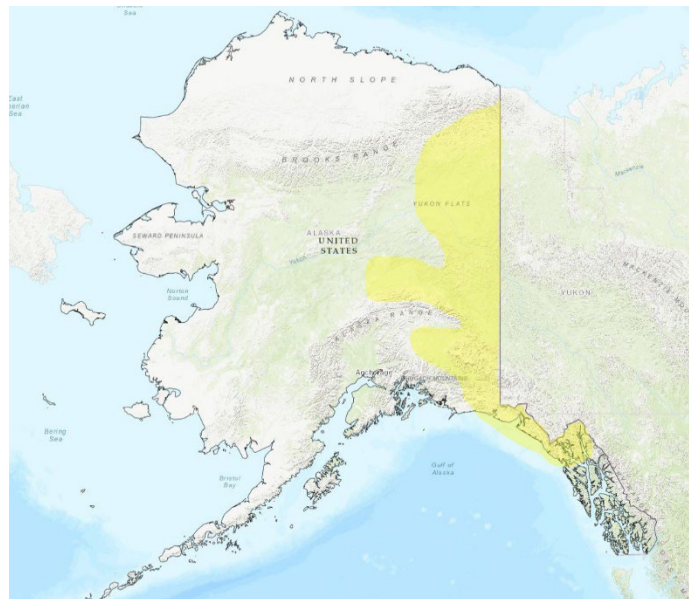
**LOCATION(S) IMPACTED:** Central and Eastern Alaska.

**TIME/DATE OF UPDATE:** Tuesday August 1, 2023, 2:00 PM

**VALID TIME:** Tuesday August 1, 2023, 2:00 PM to Thursday August 3, 2023, 2:00 PM, advisory will be issued until end of the event.

**TIME/DATE OF THE NEXT REPORT:** Thursday August 3, 2023, 2:00 PM, if needed.

**ADVISORY:** Fire growth will be on the rise with the warmer temperatures and high-pressure dominating Alaska. Low-level flow will transport smoke to the east of most fires. Flow around the high-pressure system will not allow the Canadian upper-level smoke to migrate into the Central Interior. Upper-level flow will carry smoke from the Canadian fires into areas of South Central and Southeastern Regions. Air Quality will vary between **GOOD** and **Very Unhealthy** depending on the amount of smoke that settles into the region and wind flow in/around the fires. In the image below, highlighted yellow is the forecasted impacted area associated with this advisory. **See the table below for more guidance on the Air Quality Categories and Cautionary Statements.**



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
Good	None
Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
Unhealthy for Sensitive Groups	People with heart or lung disease, the elderly and children should reduce prolonged or heavy exertion.
Unhealthy	People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion
Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors

When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central and Eastern Alaska #2023-F9**  
**Thursday August 3, 2023**

**LOCATION(S) IMPACTED:** Central and Eastern Alaska.

**TIME/DATE OF UPDATE:** Thursday August 3, 2:00 PM

**VALID TIME:** Thursday August 3, 2:00 PM to Sunday August 6, 10:00 AM, advisory will be issued until end of the event.

**TIME/DATE OF THE NEXT REPORT:** Sunday August 6, 10:00 AM, if needed.

**ADVISORY:** Fire growth will be on the rise with the warmer temperatures and high-pressure dominating Alaska through Saturday. Major smoke impacts within the Tanana Flats/Valley. Low level winds will continue to carry the smoke east until a wind shift Saturday. Winds on Saturday will be from the south and push more of the smoke into the Fairbanks North Star Borough. Air Quality will vary between **GOOD** and **Very Unhealthy** depending on the location relative to the fires and wind flow in/around the fires. In the image below, highlighted yellow is the forecasted impacted area associated with this advisory. **See the table below for more guidance on the Air Quality Categories and Cautionary Statements.**



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
Good	None
Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
Unhealthy for Sensitive Groups	People with heart or lung disease, the elderly and children should reduce prolonged or heavy exertion.
Unhealthy	People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion
Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors

When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.



**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

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Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors



When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

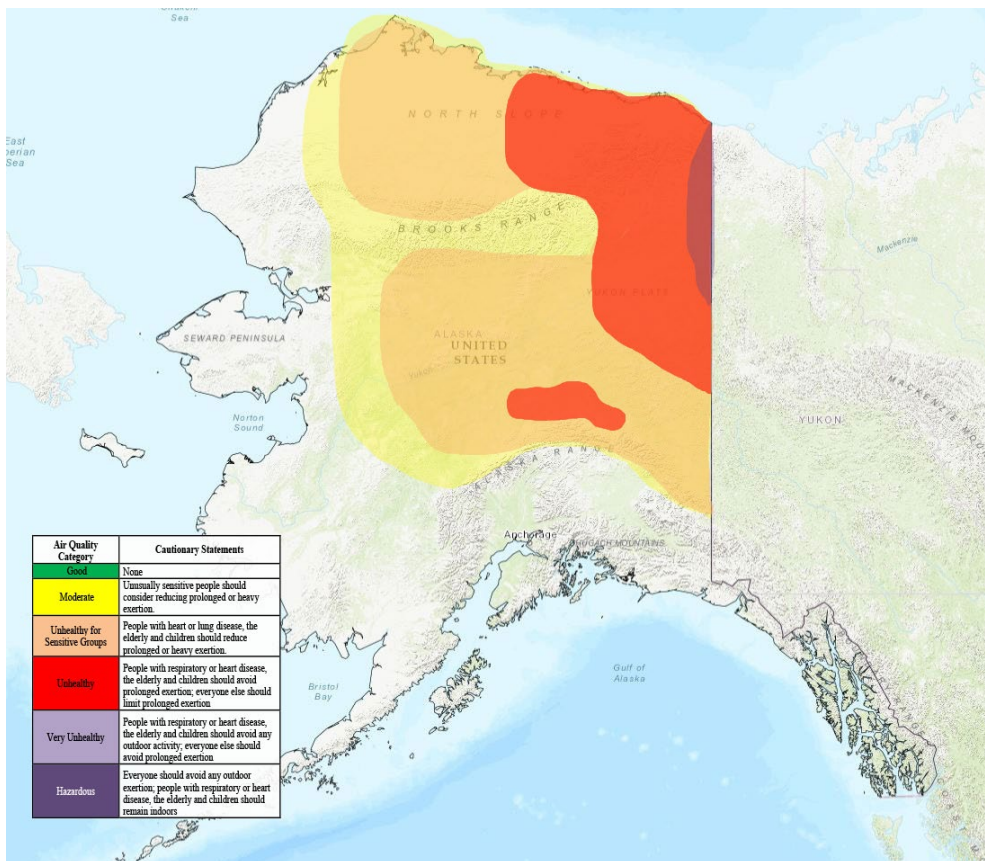
**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central Interior and Eastern Alaska #2023-F12**  
**Tuesday August 8, 2023**

**LOCATION(S) IMPACTED:** Central Interior and Eastern Alaska.

**VALID TIME:** Tuesday August 8, 2:00 PM to Thursday August 10, 2:00 PM, advisory will be issued until end of the event.

**ADVISORY:** Elevated smoke impacts continue within the Tanana Flats/Valley. Wetting rains are forecasted within the region the next few days, those rains should dampen many of the fires. Low clouds will trap any smoke that is produced from the drier fires at the surface, increasing smoke concentrations, especially in the morning hours. Low level smoke will continue to be pumped into the Yukon Flats, from the Yukon. The twenty northern Yukon fires will not see much precipitation, expect fire/smoke growth for the near future. The Brooks Range will see thick low-level smoke as it trapped on the southern side of the mountains. Air Quality will vary between **GOOD** and **Hazardous** depending on the location relative to the fires and wind flow in/around the fires. The forecasted impact areas are identified on the map below. **See the table below for more guidance on the Air Quality Categories and Cautionary Statements.**



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
Good	None
Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
Unhealthy for Sensitive Groups	People with heart or lung disease, the elderly and children should reduce prolonged or heavy exertion.
Unhealthy	People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion
Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors

When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

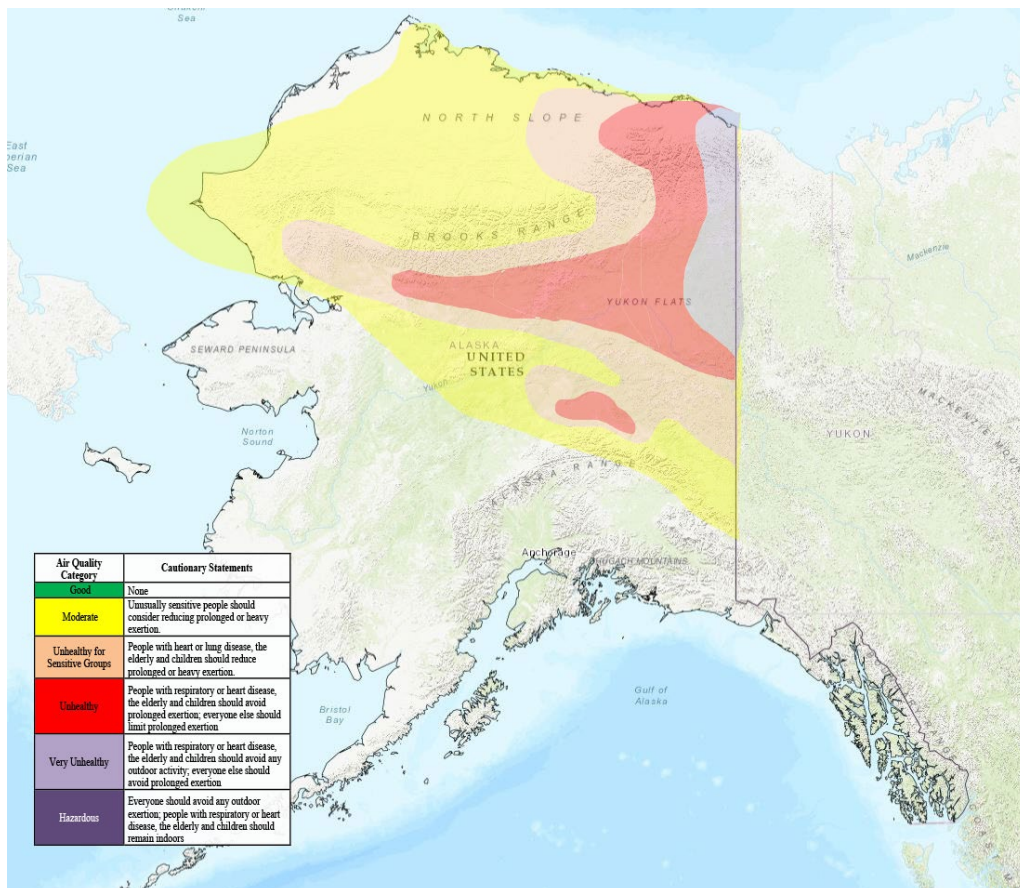
**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central Interior and Eastern Alaska #2023-F14**  
**Thursday August 10, 2023**

**LOCATION(S) IMPACTED:** Central Interior and Eastern Alaska.

**VALID TIME:** Thursday August 10, 2:00 PM to Sunday August 13, 10:00 AM, advisory will be issued until end of the event.

**ADVISORY:** Elevated smoke impacts continue within the Tanana Flats/Valley. Wetting rains will continue through the week. The rains the past few days have kept a majority of the fires from spreading but smoke production is still occurring. Low clouds will trap any smoke, that is produced, at the surface. Low-level and upper-level smoke will continue to be pumped into the Yukon Flats, from the Yukon. The northern Yukon fires have not seen much precipitation, expect fire/smoke growth to continue. The Brooks Range will see thick low-level smoke as it trapped on the southern side of the mountains. Air Quality will vary between **GOOD** and **Hazardous** depending on the location relative to the fires and wind flow in/around the fires. The forecasted impact areas are identified on the map below. See the table below for more guidance on the Air Quality Categories and Cautionary Statements.



Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
Good	None
Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
Unhealthy for Sensitive Groups	People with heart or lung disease, the elderly and children should reduce prolonged or heavy exertion.
Unhealthy	People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion
Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors

When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

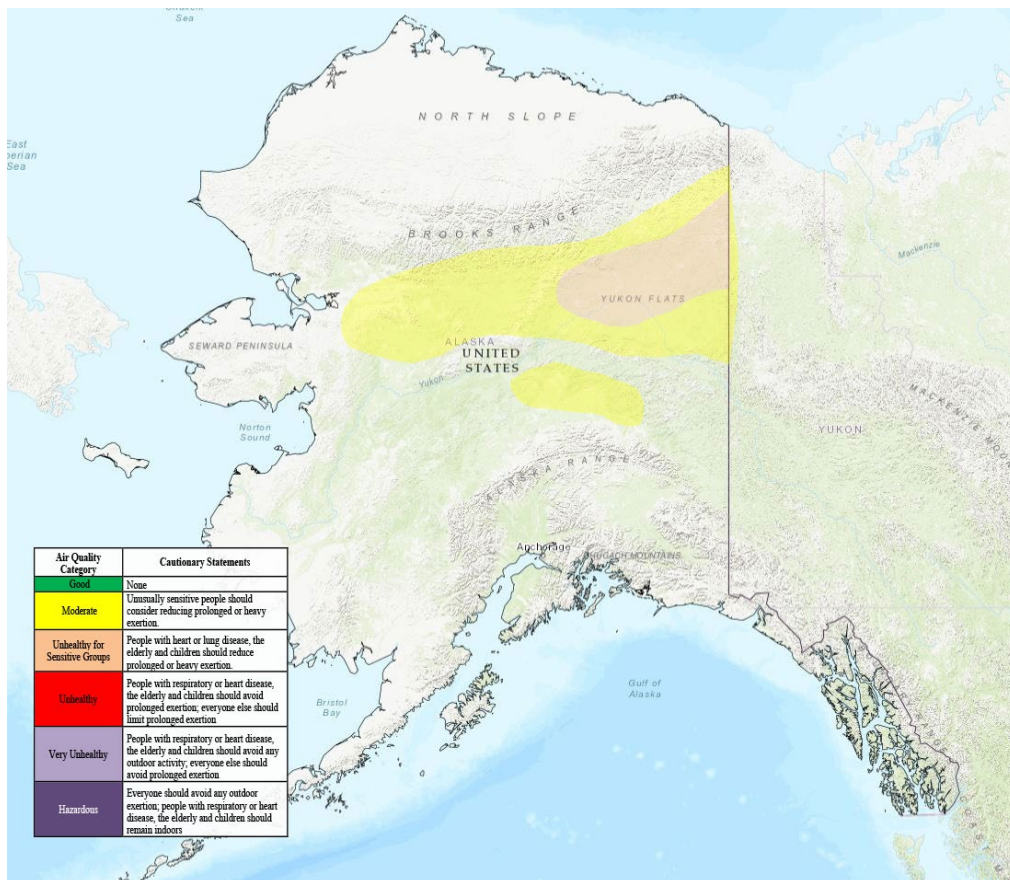


**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Air Quality**  
**AIR QUALITY ADVISORY**  
**Central Interior and Eastern Alaska #2023-F17**  
**Sunday August 13, 2023**

**LOCATION(S) IMPACTED:** Central Interior and Eastern Alaska.

**VALID TIME:** Sunday August 13, 10:00 AM to Monday August 14, 2:00 PM, advisory will be issued until end of the event.

**ADVISORY:** Smoke production in the interior has greatly diminished with wetting rains. There are still a few hot spots within the current interior fires (Tanana Valley/Flats) that will continue to produce smoke. The fires in the northern Yukon Territory is still producing a large amount of smoke. Low level winds will continue to transport smoke from those Canadian fires into the Yukon Flats region of Alaska. This low-level flow will continue until Monday morning. The dominant upper-level wind flow is now moving towards Canada, this will clean out the region. Air Quality will vary between **GOOD** and **Unhealthy for Sensitive Groups** depending on the location relative to the fires and wind flow in/around the fires. The forecasted impact areas are identified on the map below. See the table below for more guidance on the Air Quality Categories and Cautionary Statements.





Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

**SMOKE AND PUBLIC IMPACT:** This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations for the surrounding impacted areas may be found on the Federal Aviation Administration Weather Cams homepage at <https://weathercams.faa.gov/>.

**In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.**

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
Good	None
Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
Unhealthy for Sensitive Groups	People with heart or lung disease, the elderly and children should reduce prolonged or heavy exertion.
Unhealthy	People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion
Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors

When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

**FOR MORE INFORMATION:** For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.

