

Air Quality Related Values (AQRV) Inventory

An Air Quality Related Value (AQRV) is a resource that may be adversely affected by a change in air quality. AQRVs include visibility and specific scenic, cultural, physical, biological, ecological, or recreational resources. Research has identified certain AQRVs as sensitive, such as lakes with low acid-buffering capacity and plant species that display injury symptoms at ambient ozone concentrations.

For the purpose of the inventory, AQRVs have been grouped into five categories. **Visibility** is a sensitive AQRV impaired by air pollution to some degree in every unit of the National Park System. Air pollution affects how far we can see vistas and landscape features, and how well we can see them. Air pollution and light pollution also affect the dark night sky resource, an integral component of visibility. **Vegetation** may be sensitive to a variety of air pollutants, including nitrogen, sulfur, and ozone. Nitrogen and sulfur may affect plant growth and species composition. Ozone may cause leaf injury and growth and reproduction effects. Ozone-sensitive plant species have been identified in many parks and are listed in [risk assessments](#) that have been conducted to evaluate the risk to vegetation from ozone at park units. **Surface waters** and **soils** are susceptible to acidification, unnatural enrichment, or eutrophication from atmospheric deposition of hydrogen ions, nitrogen and/or sulfur. Water and soils that have evolved under low nutrient conditions, or those with low buffering capacity, are particularly vulnerable. **Fish and wildlife** are all potentially sensitive to air pollutants, including airborne toxics like mercury and dioxins. Air pollutants may have a direct effect to fish and wildlife (e.g., mercury neurotoxicity) or an indirect effect to their habitat (e.g., stream acidification).

The following table contains AQRV information for approximately 270 areas in the [National Park Service Inventory and Monitoring Program](#). An “X” in the table indicates the AQRV is known to be, or likely to be, sensitive to air pollution. “No” indicates that the resource is not sensitive to air pollution. “Unknown” indicates there is not enough park-specific information available at this time to determine if the resource is sensitive. “In Progress” indicates that the AQRV inventory for the park is planned or underway. The table is based on best available information relative to park resources and pollution sensitivity, and will be updated when more information is available.

PARK	I&M network name	Visibility	Vegetation	Surface Waters	Soils	Fish and Wildlife
Abraham Lincoln NHS	Cumberland Piedmont	X	X	Unknown	Unknown	X*
Acadia NP**	Northeast Temperate	X	X	X	X	X
Agate Fossil Beds NM	Northern Great Plains	X	X	Unknown	Unknown	X*
Alagnak Wild River	Southwest Alaska	inventory in progress				
Alibates Flint Quarries NM	Southern Plains	X	X	No	Unknown	X
Allegheny Portage Railroad NHS	Eastern Rivers and Mountains	X	X	X	Unknown	X*
American Mem Park	Pacific Island	inventory in progress				
Amistad NRA	Chihuahuan Desert	X	X	Unknown	Unknown	X
Aniakchak Preserve NM & Pres	Southwest Alaska	inventory in progress				
Antietam NB	National Capitol	X	X	Unknown	Unknown	X
Apostle Islands NL	Great Lakes	X	X	X	X	X*
Appomattox Court House NHP	Mid Atlantic	X	X	Unknown	Unknown	X
Arches NP	Northern Colorado Plateau	X	X	Unknown	Unknown	X
Arkansas Post NMem	Heartland	X	X	Unknown	Unknown	X

PARK	I&M network name	Visibility	Vegetation	Surface Waters	Soils	Fish and Wildlife
Assateague Island NS	Northeast Coastal and Barrier	X	X	X	Unknown	X
Aztec Ruins NM	Southern Colorado Plateau	X	X	Unknown	Unknown	X
Badlands NP	Northern Great Plains	X	X	Unknown	Unknown	X
Bandelier NM	Southern Colorado Plateau	X	X	Unknown	Unknown	X
Bent's Old Fort NHS	Southern Plains	X	X	Unknown	Unknown	X
Bering Land Bridge NPres	Arctic Alaska	X	X	X	X	X
Big Bend NP	Chihuahuan Desert	X	X	X	X	X
Big Cypress NPres	South Florida / Caribbean	X	X	Unknown	Unknown	X*
Big Hole NB	Upper Columbia Basin	inventory in progress				
Big South Fork NR and NRA	Appalachian Highlands	X	X	Unknown	Unknown	X*
Big Thicket NPres	Gulf Coast	X	X	X	X	X
Bighorn Canyon NRA	Greater Yellowstone	X	X	Unknown	Unknown	X
Biscayne NP	South Florida / Caribbean	X	X	X	X	X*
Black Canyon of the Gunnison NP	Northern Colorado Plateau	X	X	X	X	X
Blue Ridge Parkway	Appalachian Highlands	X	X	X	X	X*
Bluestone NSR	Eastern Rivers and Mountains	X	X	Unknown	Unknown	X
Booker T. Washington NM	Mid Atlantic	X	X	Unknown	Unknown	X
Boston Harbor Islands NRA	Northeast Temperate	X	X	Unknown	Unknown	X
Bryce Canyon NP	Northern Colorado Plateau	X	X	Unknown	Unknown	X
Buck Island Reef NM	South Florida / Caribbean	X	Unknown	Unknown	Unknown	X
Buffalo NR	Heartland	X	X	Unknown	Unknown	X
Cabrillo NM	Mediterranean Coast	inventory in progress				
Canaveral NS	Southeast Coast	X	X	X	X	X
Canyon de Chelly NM	Southern Colorado Plateau	X	X	Unknown	Unknown	X
Canyonlands NP	Northern Colorado Plateau	X	X	Unknown	Unknown	X
Cape Cod NS	Northeast Coastal and Barrier	X	X	X	Unknown	X
Cape Hatteras NS	Southeast Coast	X	X	X	X	X
Cape Krusenstern NM	Arctic Alaska	X	X	X	X	X
Cape Lookout NS	Southeast Coast	X	X	X	X	X
Capitol Reef NP	Northern Colorado Plateau	X	X	Unknown	Unknown	X
Capulin Volcano NM	Southern Plains	X	X	Unknown	Unknown	X
Carl Sandburg Home NHS	Cumberland Piedmont	X	X	X	X	X
Carlsbad Caverns NP	Chihuahuan Desert	X	X	X	X	X
Casa Grande Ruins NM	Sonoran Desert	X	X	Unknown	Unknown	X
Castillo San Marcos NM	Southeast Coast	X	X	Unknown	Unknown	X
Catoctin Mountain Park	National Capitol	X	X	X	X	X
Cedar Breaks NM	Northern Colorado Plateau	X	X	Unknown	Unknown	X
Chaco Culture NHP	Southern Colorado Plateau	X	X	Unknown	Unknown	X
Channel Islands NP	Mediterranean Coast	inventory in progress				
Chattahoochee River NRA	Southeast Coast	X	X	Unknown	Unknown	X

PARK	I&M network name	Visibility	Vegetation	Surface Waters	Soils	Fish and Wildlife
Chesapeake and Ohio Canal NHP	National Capitol	X	X	X	X	X
Chickamauga and Chattanooga NMP	Cumberland Piedmont	X	X	X	X	X
Chickasaw NRA	Southern Plains	X	X	Unknown	Unknown	X
Chiricahua NM	Sonoran Desert	X	X	X	X	X
City of Rocks NR	Upper Columbia Basin	inventory in progress				
Colonial NHP	Northeast Coastal and Barrier	X	X	X	Unknown	X*
Colorado NM	Northern Colorado Plateau	X	X	Unknown	Unknown	X
Congaree Swamp NM	Southeast Coast	X	X	Unknown	Unknown	X
Coronado NMem	Sonoran Desert	X	X	Unknown	Unknown	X
Cowpens NB	Cumberland Piedmont	X	X	X	X	X
Crater Lake NP	Klamath	inventory in progress				
Craters of the Moon NM	Upper Columbia Basin	inventory in progress				
Cumberland Gap NHP	Cumberland Piedmont	X	X	X	X	X*
Cumberland Island NS	Southeast Coast	X	X	X	X	X
Curecanti NRA	Northern Colorado Plateau	X	X	X	X	X
Cuyahoga Valley NP	Heartland	X	X	Unknown	Unknown	X*
Death Valley NP	Mojave Desert	inventory in progress				
Delaware Water Gap NRA	Eastern River and Mountains	X	X	X	Unknown	X*
Denali NP & Pres	Central Alaska	X	X	X*	X*	X
Devils Postpile NM	Sierra	inventory in progress				
Devils Tower NM	Northern Great Plains	X	X	Unknown	Unknown	X
Dinosaur NM	Northern Colorado Plateau	X	X	Unknown	Unknown	X
Dry Tortugas NP	South Florida / Caribbean	X	Unknown	Unknown	Unknown	X
Ebey's Landing NHR	North Coast and Cascades	inventory in progress				
Effigy Mounds NM	Heartland	X	X	Unknown	Unknown	X
Eisenhower NHS	Mid Atlantic	X	X	Unknown	Unknown	X*
El Malpais NM	Southern Colorado Plateau	X	X	Unknown	Unknown	X
El Morro NM	Southern Colorado Plateau	X	X	Unknown	Unknown	X
Everglades NP	South Florida / Caribbean	X	X	X	X	X*
Fire Island NS	Northeast Coastal and Barrier	X	X	X	Unknown	X
Florissant Fossil Beds NM	Rocky Mountain	X	X	Unknown	Unknown	X
Fort Bowie NHS	Sonoran Desert	X	X	Unknown	Unknown	X
Fort Caroline NMem	Southeast Coast	X	X	Unknown	Unknown	X
Fort Davis NHS	Chihuahuan Desert	X	X	No	Unknown	X
Fort Donelson NC	Cumberland Piedmont	X	X	X	X	X
Fort Frederica NM	Southeast Coast	X	X	Unknown	Unknown	X
Fort Laramie NHS	Northern Great Plains	X	X	Unknown	Unknown	X
Fort Larned NHS	Southern Plains	X	X	Unknown	Unknown	X
Fort Matanzas NM	Southeast Coast	X	X	Unknown	Unknown	X
Fort Necessity NB	Eastern River and Mountains	X	X	Unknown	Unknown	X*

PARK	I&M network name	Visibility	Vegetation	Surface Waters	Soils	Fish and Wildlife
Fort Point NHS	San Francisco Bay	inventory in progress				
Fort Pulaski NM	Southeast Coast	X	X	Unknown	Unknown	X
Fort Scott NHS	Heartland					
Fort Sumter NM	Southeast Coast	X	X	Unknown	Unknown	X
Fort Union NM	Southern Plains	X	X	Unknown	Unknown	X
Fort Union Trading Post NHS	Northern Great Plains	X	X	Unknown	Unknown	X*
Fort Vancouver NHS	North Coast and Cascades	inventory in progress				
Fossil Butte NM	Northern Colorado Plateau	X	X	Unknown	Unknown	X
Fredericksburg & Spotsylvania NMP	Mid Atlantic	X	X	X	Unknown	X*
Fredericksburg NC	Mid Atlantic					
Friendship Hill NHS	Eastern River and Mountains	X	X	Unknown	Unknown	X*
Gates of the Arctic NP & Preserve	Arctic Alaska	X	X	X	X	X
Gateway NRA	Northeast Coastal and Barrier	X	X	X	Unknown	X*
Gauley River NRA	Eastern River and Mountains	X	X	Unknown	Unknown	X
George Washington Birthplace NM	Northeast Coastal and Barrier	X	X	Unknown	Unknown	X*
George Washington Carver NM	Heartland	X	X	Unknown	Unknown	X*
George Washington Mem PKWY	National Capitol	X	X	Unknown	Unknown	X
Gettysburg NMP	Mid Atlantic	X	X	Unknown	Unknown	X*
Gila Cliff Dwellings NM	Sonoran Desert	X	X	Unknown	Unknown	X
Glacier Bay NP & Preserve	Southeast Alaska	inventory in progress				
Glacier NP	Rocky Mountain	X	X	X	X	X
Glen Canyon NRA	Southern Colorado Plateau	X	X	Unknown	Unknown	X
Golden Gate NRA	San Francisco Bay	inventory in progress				
Golden Spike NHS	Northern Colorado Plateau	X	X	Unknown	Unknown	X
Grand Canyon NP	Southern Colorado Plateau	X	X	Unknown	Unknown	X
Grand Portage NM	Great Lakes	X	X	X	X	X*
Grand Teton NP*	Greater Yellowstone	X	X	X	X	X
Grant-Kohrs Ranch NHS	Rocky Mountain	X	X	Unknown	Unknown	X
Great Basin NP	Mojave Desert	inventory in progress				
Great Sand Dunes NP & Pres	Rocky Mountain	X	X	X	X	X
Great Smoky Mountains NP**	Appalachian Highlands	X	X	X	X	X*
Guadalupe Mountains NP	Chihuahuan Desert	X	X	X	X	X
Guilford Courthouse NMP	Cumberland Piedmont	X	X	X	X	X
Gulf Islands NS	Gulf Coast	X	X	X	X	X*
Hagerman Fossil Beds NM	Upper Columbia Basin	inventory in progress				
Haleakala NP	Pacific Island	inventory in progress				
Harpers Ferry NHP	National Capitol	X	X	Unknown	Unknown	X
Hawaii Volcanoes NP	Pacific Island	inventory in progress				
Herbert Hoover NHS	Heartland	X	X	Unknown	Unknown	X
Home of Franklin D. Roosevelt NHS	Eastern River and Mountains					
Homestead NM of America	Heartland	X	X	Unknown	Unknown	X

PARK	I&M network name	Visibility	Vegetation	Surface Waters	Soils	Fish and Wildlife
Hopewell Culture NHP	Heartland	X	X	Unknown	Unknown	X*
Hopewell Furnace NHS	Mid Atlantic	X	X	Unknown	Unknown	X*
Horseshoe Bend NMP	Southeast Coast	X	X	Unknown	Unknown	X
Hot Springs NP	Heartland	X	X	Unknown	Unknown	X
Hovenweep NM	Northern Colorado Plateau	X	X	Unknown	Unknown	X
Hubbell Trading Post NHS	Southern Colorado Plateau	X	X	Unknown	Unknown	X
Indiana Dunes NL	Great Lakes	X	X	X	X	X*
Isle Royale NP	Great Lakes	X	X	X	X	X*
Jean Lafitte NPres	Gulf Coast	X	X	Unknown	Unknown	X
Jewel Cave NM	Northern Great Plains	X	X	Unknown	Unknown	X
John Day Fossil Beds NM	Upper Columbia Basin	inventory in progress				
John Muir NHS	San Francisco Bay	inventory in progress				
Johnstown Flood NMem	Eastern River and Mountains	X	X	X	Unknown	X*
Joshua Tree NP	Mojave Desert	inventory in progress				
Kalaupapa NHP	Pacific Island	inventory in progress				
Kaloko-Honokohau NHP	Pacific Island	inventory in progress				
Katmai NP & Preserve	Southwest Alaska	inventory in progress				
Kenai Fjords NP	Southwest Alaska	inventory in progress				
Kennesaw Mountain NBP	Southeast Coast	X	X	Unknown	Unknown	X
Kings Canyon NP	Sierra	inventory in progress				
Kings Mtn. NMP	Cumberland Piedmont	X	X	X	X	X
Klondike Gold Rush NHP	Southeast Alaska	inventory in progress				
Knife River Indian Villages NHS	Northern Great Plains	X	X	Unknown	Unknown	X*
Kobuk Valley NP	Arctic Alaska	X	X	X	X	X
Lake Clark NP & Preserve	Southwest Alaska	inventory in progress				
Lake Mead NRA	Mojave Desert	inventory in progress				
Lake Meredith NRA	Southern Plains	X	X	Unknown	Unknown	X*
Lake Roosevelt NRA	Upper Columbia Basin	inventory in progress				
Lassen Volcanic NP	Klamath	inventory in progress				
Lava Beds NM	Klamath	inventory in progress				
Lewis and Clark NHP	North Coast and Cascades	inventory in progress				
Lincoln Boyhood NMem	Heartland	X	X	Unknown	Unknown	X*
Little Bighorn NM	Rocky Mountain	X	X	Unknown	Unknown	X
Little River Canyon NPres	Cumberland Piedmont	X	X	X	X	X
Lyndon B. Johnson NHP	Southern Plains	X	X	Unknown	Unknown	X
Mammoth Cave NP	Cumberland Piedmont	X	X	X	X	X*
Manassas NBP	National Capitol	X	X	Unknown	Unknown	X
Manzanar NHS	Mojave Desert	inventory in progress				
Marsh-Billings_Rockefeller NHP	Eastern River and Mountains					
Marsh-Billings-Rockefeller NHP	Northeast Temperate	X	X	Unknown	Unknown	X*
Mesa Verde NP	Southern Colorado Plateau	X	X	X	X	X
Minute Man NHP	Northeast Temperate	X	X	Unknown	Unknown	X*

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Mississippi NRA	Great Lakes	X	X	Unknown	Unknown	X*
Missouri NRR	Northern Great Plains	X	X	Unknown	Unknown	X
Mojave NPres	Mojave Desert	inventory in progress				
Monocacy NB	National Capitol	X	X	Unknown	Unknown	X
Montezuma Castle NM	Sonoran Desert	X	X	Unknown	Unknown	X
Moore's Creek NB	Southeast Coast	X	X	Unknown	Unknown	X
Morristown NHP	Northeast Temperate	X	X	Unknown	Unknown	X*
Mount Rainier NP	North Coast and Cascades	inventory in progress				
Mount Rushmore NMem	Northern Great Plains	X	X	Unknown	Unknown	X
Muir Woods NM	San Francisco Bay	inventory in progress				
Natchez Trace Parkway	Gulf Coast	X	X	Unknown	Unknown	X*
National Capitol - East	National Capitol	X	X	Unknown	Unknown	X
Natural Bridges NM	Northern Colorado Plateau	X	X	Unknown	Unknown	X
Navajo NM	Southern Colorado Plateau	X	X	Unknown	Unknown	X
New River Gorge NR	Eastern River and Mountains	X	X	Unknown	Unknown	X
Nez Perce NHP	Upper Columbia Basin	inventory in progress				
Ninety Six NHS	Cumberland Piedmont	X	X	X	X	X
Niobrara NSR	Northern Great Plains	X	X	Unknown	Unknown	X
Noatak NPres	Arctic Alaska	X	X	X	X	X
North Cascades NP	North Coast and Cascades	inventory in progress				
Obed Wild and Scenic River	Appalachian Highlands	X	X	Unknown	Unknown	X
Ocmulgee NM	Southeast Coast	X	X	Unknown	Unknown	X
Olympic NP	North Coast and Cascades	inventory in progress				
Oregon Caves NM	Klamath	inventory in progress				
Organ Pipe Cactus NM	Sonoran Desert	X	X	X	X	X
Ozark NSR	Heartland	X	X	Unknown	Unknown	X*
Padre Island NS	Gulf Coast	X	X	X	X	X*
Palo Alto Battlefield NHS	Gulf Coast	X	X	Unknown	Unknown	X
Pea Ridge NMP	Heartland	X	X	Unknown	Unknown	X
Pecos NHP	Southern Plains	X	X	Unknown	Unknown	X
Petersburg NB	Mid Atlantic	X	X	Unknown	Unknown	X*
Petrified Forest NP	Southern Colorado Plateau	X	X	X	X	X
Petroglyph NM	Southern Colorado Plateau	X	X	Unknown	Unknown	X
Pictured Rocks NL	Great Lakes	X	X	X	X	X*
Pinnacles NM	San Francisco Bay	inventory in progress				
Pipe Spring NM	Northern Colorado Plateau	X	X	Unknown	Unknown	X
Pipestone NM	Heartland	X	X	Unknown	Unknown	X*
Point Reyes NS	San Francisco Bay	inventory in progress				
Prince William Forest Park	National Capitol	X	X	Unknown	Unknown	X
Puukohola Heiau NHS	Pacific Island	inventory in progress				
Pu`uhonua o Honaunau NHP	Pacific Island	inventory in progress				
Rainbow Bridge NM	Southern Colorado Plateau	X	X	Unknown	Unknown	X

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Redwood NP	Klamath	inventory in progress				
Richmond NBP	Mid Atlantic	X	X	Unknown	Unknown	X*
Rio Grande WSR	Chihuahuan Desert	X	Unknown	Unknown	Unknown	X*
Rock Creek	National Capitol	X	X	X	X	X
Rocky Mountain NP	Rocky Mountain	X	X	X	X	X
Roosevelt-Vanderbilt NHS	Northeast Temperate	X	X	Unknown	Unknown	X*
Russell Cave NM	Cumberland Piedmont	X	X	Unknown	Unknown	X
Sagamore Hill NHS	Northeast Coastal and Barrier	X	X	Unknown	Unknown	X*
Saguaro NP	Sonoran Desert	X	X	X	X	X
Saint Croix NSR	Great Lakes	X	X	X	X	X*
Saint-Gaudens NHS	Northeast Temperate	X	X	Unknown	Unknown	X*
Salinas Pueblo Missions NM	Southern Colorado Plateau	X	X	Unknown	Unknown	X
San Antonio Missions NHP	Gulf Coast	X	X	Unknown	Unknown	X
San Juan Island NHP	North Coast and Cascades	inventory in progress				
Sand Creek Massacre NHS	Southern Plains	X	Unknown	Unknown	Unknown	X
Santa Monica Mountains NRA	Mediterranean Coast	inventory in progress				
Saratoga NHP	Northeast Temperate	X	X	Unknown	Unknown	X*
Saugus Iron Works NHS	Northeast Temperate	X	X	Unknown	Unknown	X
Scotts Bluff NM	Northern Great Plains	X	X	Unknown	Unknown	X
Sequoia NP	Sierra	inventory in progress				
Shenandoah NP	Mid Atlantic	X	X	X	X	X*
Shiloh NMP	Cumberland Piedmont	X	X	X	X	X
Sitka NHP	Southeast Alaska	inventory in progress				
Sleeping Bear Dunes NL	Great Lakes	X	X	Unknown	Unknown	X*
Stones River NB	Cumberland Piedmont	X	X	Unknown	Unknown	X
Sunset Crater Volcano NM	Southern Colorado Plateau	X	X	Unknown	Unknown	X
Tallgrass Prairie NPres	Heartland	X	X	Unknown	Unknown	X
The National Park of American Samoa	Pacific Island	inventory in progress				
Theodore Roosevelt NP	Northern Great Plains	X	X	Unknown	Unknown	X*
Thomas Stone NHS	Northeast Coastal and Barrier	X	X	Unknown	Unknown	X*
Timpanogos Cave NM	Northern Colorado Plateau	X	X	Unknown	Unknown	X
Timucuan Ecological and Historical Prese	Southeast Coast	X	X	Unknown	Unknown	X
Tonto NM	Sonoran Desert	X	X	Unknown	Unknown	X
Tumacacori NHP	Sonoran Desert	X	Unknown	X	X	X
Tuzigoot NM	Sonoran Desert	X	X	Unknown	Unknown	X
Upper Delaware Scenic and Recreational R	Eastern River and Mountains	X	X	Unknown	Unknown	X*
Valley Forge NHP	Mid Atlantic	X	X	Unknown	Unknown	X*
Vicksburg NC	Gulf Coast	X	X	Unknown	Unknown	X
Virgin Islands NP	South Florida / Caribbean	X	Unknown	Unknown	Unknown	X
Voyageurs NP	Great Lakes	X	X	X	X	X*
Walnut Canyon NM	Southern Colorado Plateau	X	X	Unknown	Unknown	X
War in the Pacific NHP	Pacific Island	inventory in progress				

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Washita Battlefield NHS	Southern Plains	X	X	Unknown	Unknown	X
Weir Farm NHS	Northeast Temperate	X	X	Unknown	Unknown	X*
Whiskeytown NRA	Klamath	inventory in progress				
White Sands NM	Chihuahuan Desert	X	X	X	X	X
Whitman Mission NHS	Upper Columbia Basin	inventory in progress				
Wilson's Creek NB	Heartland	X	X	Unknown	Unknown	X*
Wind Cave NP	Northern Great Plains	X	X	Unknown	Unknown	X
Wolf Trap Farm Park NP	National Capitol	X	X	Unknown	Unknown	X
Wrangell-St Elias NP & Pres	Central Alaska	X	X	X	X	X
Wupatki NM	Southern Colorado Plateau	X	X	Unknown	Unknown	X
Yellowstone NP*	Greater Yellowstone	X	X	X	X	X
Yosemite NP	Sierra	inventory in progress				
Yucca House NM	Southern Colorado Plateau	X	X	Unknown	Unknown	X
Yukon-Charley Rivers NP	Central Alaska	X	X	X	X	X
Zion NP	Northern Colorado Plateau	X	X	Unknown	Unknown	X

* Fish consumption advisories have been issued by the state for the park due to unsafe levels of one or more toxics.

** Visibility degradation, ozone-induced foliar injury, and chronic and episodic stream acidification have been documented in the park.