



Southern Ute Indian Tribe

Environmental Programs Division-Air Quality Program

116 Mouache Drive - P.O. Box 737 MS #84
Ignacio, CO 81137

<http://www.southern-ute.nsn.us/air-quality>



Air Monitoring:

The Southern Ute Indian Tribe's Air Quality Program maintains two monitoring stations, Ute 1 and Ute 3, that have been in operation since June 1, 1982, and July 1, 1997, respectively. The following criteria pollutants are monitored: O₃, NO₂, CO (only at Ute 1) and PM_{2.5}. Both stations have a full meteorological tower. Visibility is monitored at Ute 3.



Ute 1 monitoring station located in Ignacio, CO



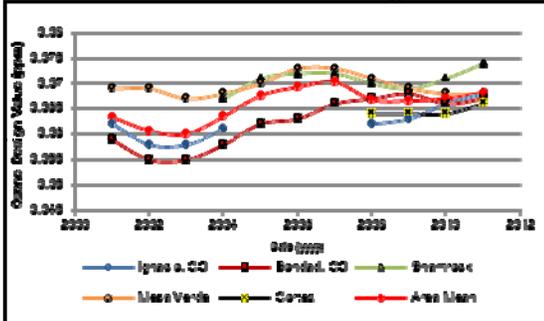
Ute 3 monitoring station located in Bondad, CO



Nephelometer installed at Ute 3 in 2010

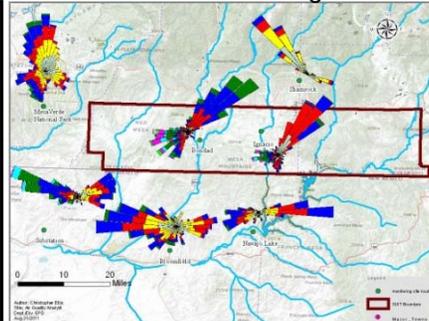
Data Results:

Southwest Colorado O₃ Design Values



The 2011 design value for Ute 3 (Bondad) is 0.067 ppm and 0.068 ppm for Ute 1 (Ignacio)

Four Corners Monitoring Stations



Wind rose models of the Four Corners monitoring stations

Outreach:

The Air Quality Program (AQP) hosts interns, participates in outreach activities and assists local tribes upon request.

Outreach cont.:



Photo By Jeremy Shockley Southern Ute Drum

Southern Ute Indian Montessori Academy student, Lakota Two Crow, taking advantage of the school's new meteorological program

Air Quality donates monitors to new Ute Mountain program

By Ace Stryker
The Southern Ute Drum

In the spirit of helping to solve the air quality issues, the Southern Ute Air Quality Program transferred four of its air monitoring samplers to the Ute Mountain Ute Environmental Programs on Wednesday, June 29 to assist the fledgling effort to develop a similar program in Towauc.

The PM10 samplers haven't been used at Ignacio since 2009, when the Southern Ute program moved to monitoring smaller particulate matter, known as PM2.5. Prior to 2009, they had been in use since the 1980s. Now they had next to allow the Ute Mountain Ute staffers to better track their own air quality.

"They're trying to start their own air quality monitoring program," said Southern Ute Air Quality Analyst Yolanda Williams, who facilitated the exchange. "It's a start for them."

The transfer follows a Jan. 28 meeting in Ignacio during which Ute Mountain visitors toured two of the Southern Ute air monitoring sites, Ute 1 and Ute 3. Interest in air quality monitoring in Towauc has been spurred recently by concerns that residents of White Mesa, Utah, could have been exposed to low levels of uranium from the White Mesa Mill, the only privately owned and operated uranium mill in the country.



Staff members from the Ute Mountain Ute Environmental Programs load four PM10 air monitoring samplers donated by the Southern Ute Air Quality Program onto a truck to take back to Towauc on Wednesday, June 29. The Southern Ute program has been helping its sister tribe's counterpart to launch an air quality program of its own.

Following the January tour, Ute Mountain Ute Environmental Specialist Romeo Nance sent a letter requesting use of the PM10 samplers to begin particulate monitoring on the Ute Mountain Ute Reservation. The move was approved by Randy Brown, U.S. Environmental Protection Agency Region 8 project officer, who had the final say because the monitors were initially purchased with EPA funds. Air Quality Program manager said her staff has been happy to help the Ute Mountain Ute

Research:

In 2009, the AQP participated in EPA's National School Air Toxics Monitoring Initiative. The AQP also participated in a 2011 passive ammonia study conducted by EPA Region 6.



School Air Toxic Study at Sunnyside Elementary School



Passive NH₃ samples collected at Ute 3



Air Permitting:

The EPA approved the Tribe's Part 70 Operating Permit Program application and the Tribe's application for "Treatment in the Same Manner as a State" on March 2, 2012 authorizing the Tribe to administer its Title V Program. Currently the Tribe has 44 Title V sources operating under EPA-issued Part 71 permits on the Reservation.



Dehydrator Inspection