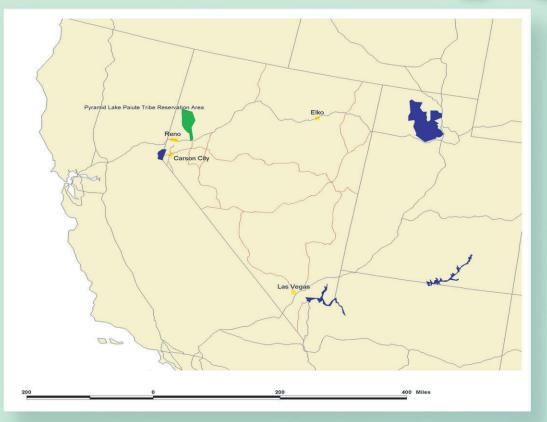
1972 - 2000 Daniel Mosley, Pyramid Lake Paiute Tribe, Nixon, Nevada Daniel T. Heggem, Curtis M. Edmonds and Robert K. Hall U.S. Environmental Protection Agency, Office of Research and Development National Exposure Research Laboratory, Environmental Sciences Division, Las Vegas, Nevada

Location map of Pyramid Lake Paiute Tribe (PLPT) Reservation in northwestern Nevada



PLPT environmental program goal is recovery of the Lahontan Cutthroat Trout fisheries.

Paiute Tribe Reservation Area hanges in the landscape affect wildlife habitat, fire condition, rangeland economics, cultural and aesthetic values. The Pyramid Lake Paiute Tribe (PLPT), in cooperation with federal, state and local entities, has

> As seen in the Landsat imagery from July 25, 1972, and July 27, 2000, representing 28 years of change, lake level and riparian habitat have increased.

> been able to increase stream flow, establish water quality

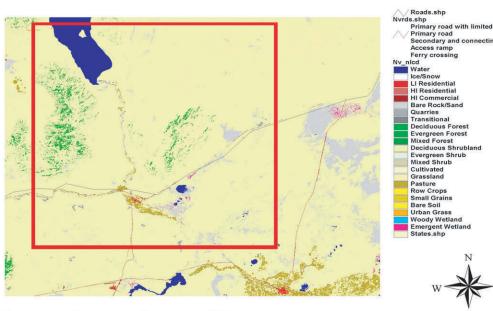
standards and improve fish habitat in the Truckee River.

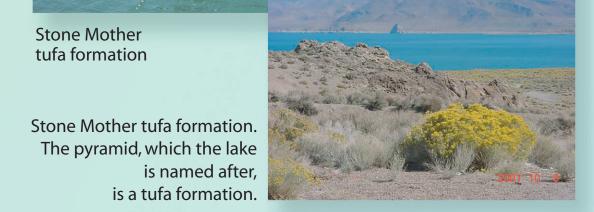
In the 1972 image, the red splotches seen in Pyramid Lake are Nodularia blooms (blue-green algae). Nodularia fixate nitrogen from air and Truckee River inputs. Decomposition of the Nodularia is considered the primary source of total nitrogen to Pyramid Lake. Blooms can occur in all parts of the Pyramid Lake from August to early November.



Truckee River headwaters in Lake Tahoe Sierra Nevadas, and terminates into Pyramid Lake.

Paiute Tribe Study Area Land Cover





Pyramid Lake has high calcium carbonate concentrations, which precipitates out of solution creating large tufa formations.

Land cover is predominantly sagebrush step with single leaf Pinon Pines and Juniper in higher elevations. The Truckee River corridor is easily distinguished from land cover and imagery in this high elevation arid environment.

Petroglyphs near Lake Winnemucca. Prior to 1920 and the Newlands land Reclamation Project, Pyramid Lake was 80 feet higher. At higher lake levels, Pyramid Lake overflowed into Winnemucca Lake, which is now dry.



Petroglyphs



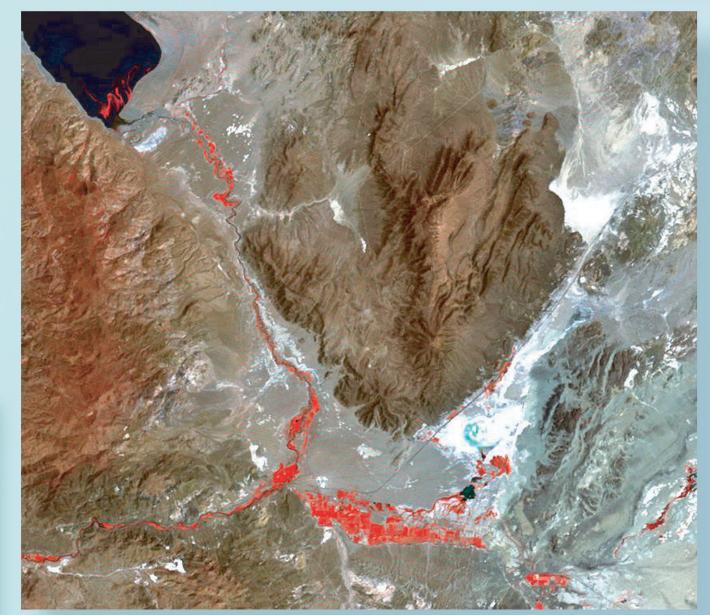
Truckee River upstream of Lockwood



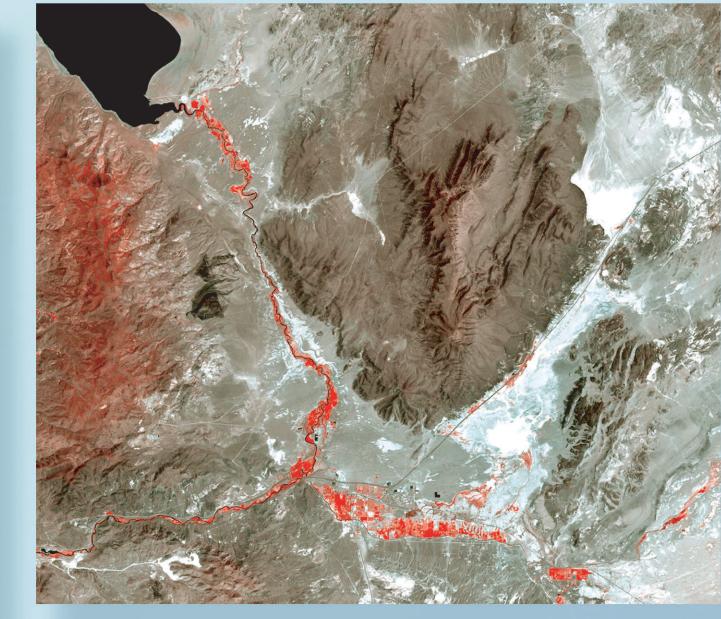
Needles Geyser, Pyramid Lake



Truckee River below the Nixon Bridge



July 25, 1972



July 27, 2000

