

Crater Renaissance Academy of Arts & Sciences, Land Lab Program USFWS Connecting People with Nature Final Report FY 2014

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U.S. Fish and Wildlife Service Funds were utilized to replenish much needed water quality monitoring materials and footwear for high school students use at multiple, on-going wetland and vernal pool restoration project-locations in the Rogue Valley.

These projects involve partnerships among the USFWS Roseburg Field Office, Central Point Elementary, Scenic Middle

School and Crater Renaissance Academy, the Oregon Department of Fish and Wildlife, Rogue Valley Council of Government and others. This partnership engages youth with somewhat limited socioeconomic backgrounds in environmental science in a rural area.

The following topics are integral components of our environmental science curriculum:

Water Quality Monitoring: Students learn protocols for measuring Temperature, Dissolved Oxygen, pH, Nitrate, Phosphate, Ammonia, Chloride, and Turbidity. Results of the sampling will be reported to streamwebs.com.



Macroinvertebrate Sampling: Students learn to conduct a comparative analysis of the Bear Creek and Rogue River sites based on quantity and diversity of aquatic insects.

Riparian Plant Surveying: Students learn to measure tree canopy cover, tree/shrub identification and tree survivorship and assess streambank slope erosion potential.

Collections and taxonomy: Students learn how to properly collect, identify and preserve plants and insects. Multiple field trips take students to a variety of collection locations.

"Thank you so much for your continued support! The success of our school's program depends on you!"—Haven Combs, Crater Renaissance Academy of Arts & Sciences, Land Lab Program.