

YAKIMA BASIN ENVIRONMENTAL EDUCATION

9405900

SHORT DESCRIPTION:

This environmental education program provides teachers necessary knowledge, through field experience, in a wide range of topics, including salmon and water resources. Teachers replicate these lessons and field trips with students to provide relevant, hands-on, interdisciplinary activities.

SPONSOR/CONTRACTOR: ESD105

Yakima Education Service District

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COORDINATOR

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SUB-CONTRACTORS:

Eco-Northwest

GOALS

GENERAL:

Supports a healthy Columbia basin, Education

NPPC PROGRAM MEASURE:

7.6B.6

TARGET STOCK

N/A

LIFE STAGE

N/A

MGMT CODE (see below)

N/A

BACKGROUND

Stream name:

YAKIMA AND TRIBS; KLICKITAT

Subbasin:

YAKIMA; KLICKITAT

HISTORY:

The Environmental Education Training Program offers teachers throughout the Yakima Basin the necessary knowledge, through field experience, in a variety of environmental topics, including salmon and water resources. Teachers receive training in a wide range of topics including salmon life cycle and spawning requirements, monitoring of water quality, and understanding water needs (reservoirs, irrigation diversion, cultural use, agricultural use, industrial use, hydroelectric power). Teachers are able to replicate these lessons and field trips with their students, and involve the students in real hands-on activities that provide a relevant interdisciplinary curriculum. Activities range from math and science investigations to language arts, journal writing, historical investigations of the watershed, civics, economics and responsible citizenship. Other involved groups include the Washington Department of Fish & Wildlife, Department of Ecology, and North Yakima Conservation District.

BIOLOGICAL RESULTS ACHIEVED:

Over the past five years, students have identified projects to improve water quality and habitat on Cowiche Creek, Wide Hollow Creek, Satus Creek, Toppedsh Creek, and the Yakima River.

ADAPTIVE MANAGEMENT IMPLICATIONS:

This on-going program is in its fifth year of operation. In excess of 150 teachers throughout the region are trained and annually over 2,000 students are involved in hands-on activities related to understanding and being involved in better stewardship of our watershed.

PURPOSE AND METHODS

SPECIFIC MEASUREABLE OBJECTIVES:

1. Provide relevant, hands-on curriculum for all participating students and teachers.
2. Provide students and teachers with equipment and materials to participate in local environmental education activities.
3. Create community partnerships to improve education and the environment.
4. Stimulate student interest in science and the environment as career choices.
5. Protect and rehabilitate local habitat.

ALTERNATIVE APPROACHES:

N/A

JUSTIFICATION FOR PLANNING:

N/A

PLANNED ACTIVITIES

SCHEDULE:

OUTCOMES, MONITORING AND EVALUATION

SUMMARY OF EXPECTED OUTCOMES

Present utilization and conservation potential of target population or area:

N/A

Assumed historic status of utilization and conservation potential:

N/A

Long term expected utilization and conservation potential for target population or habitat:

N/A

Indirect biological or environmental changes:

N/A

Physical products:

N/A

Environmental attributes affected by the project:

N/A

Changes assumed or expected for affected environmental attributes:

N/A

Measure of attribute changes:

N/A

Assessment of effects on project outcomes of critical uncertainty:

N/A

Information products:

N/A

Coordination outcomes:

This ongoing program is in it's fifth year of operation. In excess of 150 teachers through out the region are trained and annually over 2000 students are involved in hands-on activities related to understanding and being involved in better stewardship of our watershed.

MONITORING APPROACH

Provisions to monitor population status or habitat quality:

N/A

Data analysis and evaluation:

N/A

Information feed back to management decisions:

N/A

Critical uncertainties affecting project's outcomes:

N/A

EVALUATION

N/A

Incorporating new information regarding uncertainties:

N/A

Increasing public awareness of F&W activities:

This environmental education program increases the understanding and appreciation of fish and wildlife resources and their associated habitats, including salmon and water resources, wetland functions, and similar topics. Participants gain insights into complex natural resource topics and the various benefits received from our natural resources, including, energy, agriculture, fish and wildlife, recreation, and cultural values.

RELATIONSHIPS

RELATED BPA PROJECT

RELATIONSHIP

N/A

COSTS AND FTE

1997 Planned: \$100,000

FUTURE FUNDING NEEDS:

<u>FY</u>	<u>\$ NEED</u>	<u>% PLAN</u>	<u>% IMPLEMENT</u>	<u>% O AND M</u>
1998	\$102,000			100%
1999	\$106,000			100%
2000	\$110,000			100%
2001	\$114,000			100%
2002	\$118,000			100%

PAST OBLIGATIONS (incl. 1997 if done):

<u>FY</u>	<u>OBLIGATED</u>
1994	\$95,701
1995	\$94,701
1996	\$97,681
TOTAL:	\$288,083

Note: Data are past obligations, or amounts committed by year, not amounts billed. Does not include data for related projects.

<u>FY</u>	<u>OTHER FUNDING SOURCE</u>	<u>AMOUNT</u>	<u>IN-KIND VALUE</u>
1998	ESD105	\$4,000	\$32,000
1999	ESD105	\$4,200	\$34,000
2000		\$4,400	\$36,000
2001		\$4,600	\$38,000
2002		\$4,800	\$40,000

OTHER NON-FINANCIAL SUPPORTERS:

Bureau of Reclamation; City of Yakima; Pacific Power and Light; Tree Top Corp.; Boise Cascade Corp.; Yakama Indian Nation; Washington Department of Fish and Wildlife; North Yakima Conservation District; Washington Department of Ecology; various private farmers.

LONGER TERM COSTS: \$120,000-\$150,000 Annual Implementation

1997 OVERHEAD PERCENT: 7%

HOW DOES PERCENTAGE APPLY TO DIRECT COSTS:

Total

CONTRACTOR FTE: 1

SUBCONTRACTOR FTE: 200 hours