



## FY2016 (7/1/16 – 6/30/17) Annual Work Plan Benton Conservation District

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### Mission of the Benton Conservation District

- *The Mission of the Benton Conservation District is to facilitate responsible stewardship of the land and resources for the residents of Benton County through the application and administration of various volunteer and cooperative partnership programs using all available funding sources.*

### Natural Resource Priorities

- Water Quality / Quantity Issues / Monitoring & Urban Water Conservation Issues
  - **Natural resource priority description:** *Water is a valuable resource in Washington. Using our resources wisely will help us fill the needs of people, industries, businesses and farms, while also keeping fish and other aquatic life alive and well. Across the state these water users have diverse needs and goals we must find a way to share limited, fluctuating supplies. Water conservation—using water efficiently and avoiding waste—is fundamental to ensuring water availability in the future. In order to protect our water supply everyone can practice conservation. In our businesses, schools, and homes, using water more efficiently will lessen the effects of limited water supply. ~ [ECY](#)*

*Much of the water in the Rock Glade Watershed and the Alkli-Squilchuck Watershed has already been spoken for. Increased demands from population growth, declining groundwater levels, and impacts from climate change are adding to the challenge of finding new water supplies in WRIA 31 and 40, especially during the summer months. The Yakima River basin consists of three Water Resource Inventory areas, the Lower Yakima (WRIA 37), Upper Yakima (WRIA 39) and Naches (WRIA 38). Surface waters in the Yakima Basin are currently under adjudication and thus unavailable for new appropriations. Adjudications in an area are an indication that most if not all of the available water has already been allocated to existing uses. ~ [ECY](#)*

*Over 2,000 people in the Lower Yakima Valley GWMA area are exposed to nitrate over the maximum contaminant level (MCL) through their drinking water. While not all groundwater supplies have been impacted, many residents rely on private wells that are in the most vulnerable portions of the aquifer. Approximately 12% of domestic well users are exposed to nitrate levels in their drinking water that exceed the health-based standard of 10 mg/L. Water quality issues related to groundwater in the Lower Yakima River can impact surface water. The Lower Yakima River is listed on the Department of Ecology's 303(d) list for violations of numerous Water Quality Standards (WQS). Listings of pH and Dissolved Oxygen are related directly to surface water nutrient levels and the growth and decay of aquatic organisms in surface waters. Ecology is required to develop Total Maximum Daily Loads (TMDLs) or action plans to obtain future compliance with WQS related to surface water. Connection between surface water and groundwater exists, and there is a potential for nutrients to move from ground to surface waters. ~ [ECY](#)*

- **Is this a state and or regional natural resource priority?** YES (See Priority Description Above and Source Data below)
- **Source of data:** BCD's Five Year Plan, Tri-Cities Urban Area Landscape Irrigation Plan, 2006, ECY Publication 11-11-035, ECY Publication 11-11-041, ECY Publication 11-11-044, WRIA 31 Plan, WRIA 37 Plan, ECY Publication 10-10-009 and ECY Publication 96-17.
- **Other entities:** Columbia Snake River Irrigators Association, Benton County, NRCS, Benton Franklin Health District

- Small Acreage Conservation Issues
  - **Natural resource priority description:** *Small acreage landowners face the same water quality and water conservation issues that their large-scale agricultural counterparts do without the benefit of robust government funding programs to address natural resource issues that arise from keeping livestock and growing crops.*
  - **Is this a state and or regional natural resource priority?** YES (See Priority Description Above and Source Data below)
  - **Source of data:** WRIA 31 Plan, WRIA 37 Plan, Benton CD's 5 Year Plan, Site Specific Inventories
  - **Other entities:** Benton County, Cooperative Extension, Benton Franklin Health District
  
- Air Quality & Wind Erosion Issues
  - **Natural resource priority description:** *Natural resource priority description: During the late 1980s and early 1990s a large number of exceedances of the 24-hour National Ambient Air Quality Standard (NAAQS) from particulate matter ten microns or less (PM10) were recorded in Spokane, Kennewick, and Wallula, Washington. An examination showed a close correlation to high wind events. The Tri-Cities experienced 3 more exceedances in the fall of 2013. The exceedances are primarily attributable to activity on agricultural fields, although other sources may contribute. If any area exceeds pollution concentrations defined by the National Ambient Air Quality Standards or NAAQS more frequently than is permitted by the rule, the area is put into "non-attainment". The non-attainment status has **significant planning** and **possibly economic impacts** to that area. Since the policy does require that dust originating from man-made sources be controlled according to a best practice, documenting that essentially "nothing more could have been done" to prevent the exceedances avoids a determination of non-attainment. ~ [BCAA](#)*
  - **Is this a state and or regional natural resource priority?** YES (See Priority Description Above and Source Data below)
  - **Source of data:** WRIA 31 Plan, WRIA 37 Plan, Benton CD's 5 Year Plan and Annual Plan of Work, Site Specific Inventories, ECY Air Quality Monitoring Stations, Columbia Plateau PM10 Project Research, WSU, USDA-ARS, FSA
  - **Other entities:** Benton Clean Air Authority, ECY, NRCS
  
- Noxious Weed Issues
  - **Natural resource priority description:** *'Noxious weed' is the traditional, legal term for invasive, non-native plants that are so aggressive they harm our local ecosystems or disrupt agricultural production. These plants crowd out the native species that fish and wildlife depend on. They also cost farmers, orchardists and ranchers millions of dollars in control efforts and lost production – and that can make the food we buy more expensive. So while ordinary weeds may be annoying, noxious weeds are a genuine threat to the natural resources, ecology and economy of our state.~ [Washington State NWCB](#)*
  - **Is this a state and or regional natural resource priority?** YES (See Priority Description Above and Source Data below)
  - **Source of data:** Benton County Weed Board, Washington State Weed Board, local inventories, BCD Five Year Plan
  - **Other entities:** Benton County Noxious Weed Control Board
  
- Wildlife Habitat & Public Access Issues
  - **Natural resource priority description:** *Shoreline vegetation conservation is a critical component when considering public access to Benton County's Shorelines. The County has recently completed its Shoreline Master Plan. The Shoreline Master Plan will protect environmental resources of Benton County shorelines; promote public access and enjoyment opportunities and plan for water-dependent uses. ~ [ECY](#)*

*Shrubsteppe communities form the iconic, western landscape of open sagebrush plains, rim rock, and tumbleweeds. Described as vegetation communities consisting of one or more layers of perennial grass with a discontinuous over story layer of shrubs, shrubsteppe historically dominated the landscape in eastern Washington. Some of the many species of wildlife that inhabit shrubsteppe can only be found in these semi-arid communities. Today, less than 50% of Washington's historic shrubsteppe remains and much of it is degraded, fragmented, and/or isolated from other similar habitats. Conversion to cropland has resulted in the greatest loss of shrubsteppe in Washington, leading to a fragmented landscape and a differentially high loss of deep-soil communities. Across the Intermountain West, shrubsteppe communities have been lost or degraded by conversion to cropland, extensive energy extraction, and alteration of the vegetation through over-grazing, invasion by exotic plants and changes in fire frequency. ~ [WDFW](#)*

*Pollinators are essential to our environment. The ecological service they provide is necessary for the reproduction of nearly 70 percent of the world's flowering plants, including more than two-thirds of the world's crop species. The United States alone grows more than one hundred crops that either need or benefit from pollinators, and the economic value of these native pollinators is estimated at \$3 billion per year in the U.S. Beyond agriculture, pollinators are keystone species in most terrestrial ecosystems. Fruits and seeds derived from insect pollination are a major part of the diet of approximately 25 percent of all birds, and of mammals ranging from red-backed voles to grizzly bears. In many places, the essential service of pollination is at risk from habitat loss, pesticide use, and introduced diseases. ~ [Xerces](#)*

- ***Is this a state and or regional natural resource priority?*** YES (See Priority Description Above and Source Data below)
- ***Source of data:*** WRIA 31 Plan, WRIA 37 Plan, Benton CD's 5 Year Plan, Site Specific Inventories, Inadequate Habitat for Wildlife in areas adjacent to cropland that have been degraded per BCD's Five Year Plan and as described in WDFW's Management Recommendations for Washington's Priority Species – Volume IV, 2004 and MANAGEMENT RECOMMENDATIONS FOR WASHINGTON'S PRIORITY HABITATS: Managing Shrub-steppe in Developing Landscapes, 2011, Benton County Shorelines Management Plan.
- ***Other entities:*** Benton County Parks Board, Xerces, NRCS

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Washington Conservation Districts assisting land managers with their conservation choices



# FY2016 (7/1/16 – 6/30/17) Annual Work Plan

## BENTON Conservation District



Natural Resource Priority Program Area: Water Quality / Quantity Issues / Monitoring & Urban Water Conservation

Goal(s): By 2015 have a comprehensive water quality monitoring program providing results to target conservation programs. Implementation of a waterstar grass management plan. Demonstrated increase in conservation planning and systems implemented for water resources. Program recognized by regulatory agencies. Create an urban water efficiencies program in cooperation with the cities and irrigation districts. Demonstrated increase in number of people using technology and practices to conserve water and related reduction in water use.

Natural Resource Measurable Result Objective: To Be Determined Based on Actual Grant Funding Levels

Programmatic Measurable Result Objective: To Be Determined Based on Actual Grant Funding Levels

Funding Source(s): See Notes Section

Activities for FY2017	Target Dates	Person Responsible	Time(Days) Required	Estimated Funding	Notes
Implement Clean Water Centennial Grant for Benton County Groundwater Characterization and Monitoring and Stakeholder Engagement	7/16 – 12/17	Heather / Mark / Rachel / Marcie / Erin	72	\$240,000	Assessment / ECY / Benton Co.
Participate in the Benton County Voluntary Stewardship Program	7/16 – 6/17	Mark / Board	10	\$2,500	Assessment
Continue working with Columbia Snake River Irrigators Association on water quantity issues	7/16 – 6/17	Mark	4	\$1,000	Assessment
Submit implementation documentation to Ecology as part of producers participating in the Voluntary Regional Agreement	7/16 – 6/17	Mark / Erin	4	\$1,000	Assessment
Conduct water quality monitoring for MCFEG on Yakima River Side Channels	4/16 – 5/18	Marcie	20	\$5,500	MCFEG
Conduct water quality monitoring for MCFEG in the Yakima Delta	4/16 – 5/17	Marcie/Mark	34	\$13,500	MCFEG
Assist the Yakima Basin Integrated Plan Municipal Water Conservation Subgroup with the development of water	4/16 – 6/17	Heather / Mark / Kara	17	\$6,300	ECY

conservation outreach strategies					
Work to secure funding to monitor and improve the water quality in the streams and rivers that are of concern	7/16 – 6/17	All Staff	4	\$1,000	Seeking Funding
Implement Commercial Livestock Nutrient Management Program	7/16 – 6/17	Erin	30	\$5,000	WSCC
Cost-share on Irrigation Conversions, Fish Screens, Pond Linings, Fencing and Wildlife Habitat	7/16 – 6/17	Erin	45	\$106,534	WSCC / Assessment
Seek funding to Implement variable speed drive cost-share program in the irrigated acres of Benton County	7/16 - 6/17	Erin / Mark	4	\$1,000	Assessment
Seek additional funding for the installation of fish screens, livestock fencing, riparian buffers and shoreline stabilization projects	7/16 - 6/17	Marcie / Rachel	4	\$1,000	Seeking Funding
Implement Heritage Garden Program	7/16– 6/17	Heather / Erin / Mark	100	\$31,500	WSCC / Assessment
Seek funding for urban irrigation water management program	7/16 – 6/17	Mark / Heather / Erin	4	\$1,000	Seeking Funding
Research new water efficiency technologies.	7/16 – 6/17	Mark / Heather	4	\$1,000	Assessment

Natural Resource Priority Program Area: Small Acreage Conservation Issues

Goal(s): Increase in conservation plans, programs, and related acreage to address small acreage usage.

Natural Resource Measurable Result Objective: To Be Determined Based on Actual Grant Funding Levels

Programmatic Measurable Result Objective: To Be Determined Based on Actual Grant Funding Levels

Funding Source(s): See Notes Section

Activities for FY2017	Target Dates	Person Responsible	Time(Days) Required	Estimated Funding	Notes
Implement the District's Small Acreage Livestock Program	7/16 – 6/17	Erin	84	\$24,500	WSCC

Implement the use of the Rotowiper for pasture management	7/16– 6/17	Erin	4	\$1,000	WSCC
Work with Ecology, Benton Franklin Health Department and WSDA to explore the options for livestock mortality management on small acreage parcels.	7/16 – 6/17	Heather	4	\$1,000	WSCC
Seek funding to purchase pasture aerator	7/16 - 6/17	Heather / Erin	4	\$1,000	Seeking Funding

Natural Resource Priority Program Area: Air Quality & Wind Erosion Issues

Goal(s): Demonstrated reduction in PM-10 emissions and exceedances. Increase in acreage of air quality practices and systems.

Natural Resource Measurable Result Objective: To Be Determined Based on Actual Grant Funding Levels

Programmatic Measurable Result Objective: To Be Determined Based on Actual Grant Funding Levels

Funding Source(s): See Notes Section

Activities for FY2017	Target Dates	Person Responsible	Time(Days) Required	Estimated Funding	Notes
Develop a Partnership with WSU on collecting & measuring soil erosion after wind storms along SR 221	7/16 – 6/17	Erin	4	\$1,000	Seeking Funding
Implement the Stripper Header Demonstration Project	7/16 – 6/17	Erin / Heather	4	\$1,000	Assessment
Implement NRCS Task Order for CRP	7/16 – 9/16	Erin	TBD	TBD	NRCS / WSCC
Deep Furrow Drill Evaluation	8/16 – 8/17	Mark / Consultant	40	\$25,000	FCD / BCD / WSCC
Look for funding to implement the use of No-till Drills in the Horse Heaven Hills	7/16 – 6/17	Erin	4	\$1,000	Seeking Funding
Provide Firewise Assessments when requested	7/16 – 6/17	Erin	4	\$1,000	Assessment

Natural Resource Priority Program Area: Noxious Weed Issues

Goal(s): Demonstrated increase in numbers of acres treated for noxious weed control.

Natural Resource Measurable Result Objective: To Be Determined Based on Actual Grant Funding Levels

Programmatic Measurable Result Objective: To Be Determined Based on Actual Grant Funding Levels

Funding Source(s): See Notes Section

Activities for FY2017	Target Dates	Person Responsible	Time(Days) Required	Estimated Funding	Notes
Continue Implementing Inter-local Agreement with the Benton County Noxious Weed Control Board (BCNWCB) to provide Bookkeeping Services	7/16 – 6/17	Patty	25	\$6,000	Inter-local Agreement
Seek Funding in partnership with the BCNWCB to map existing weed infestations and prioritize treatment areas and programs (include biological, mechanical, cultural and chemical controls)	7/16 – 6/17	Mark / Heather / Erin	4	\$1,000	Assessment

Natural Resource Priority Program Area: Wildlife Habitat & Public Access Issues

Goal(s): Demonstrated increase in amount and quality of wildlife habitat and related acreage with plans and implementation & increase in amount of access.

Natural Resource Measurable Result Objective: To Be Determined Based on Actual Grant Funding Levels

Programmatic Measurable Result Objective: To Be Determined Based on Actual Grant Funding Levels

Funding Source(s): See Notes Section

Activities for FY2017	Target Dates	Person Responsible	Time(Days) Required	Estimated Funding	Notes
Providing planting plans and seeding recommendation for riparian and upland sites per landowner requests	7/16 – 6/17	Heather / Mark	5	\$4,000	WSCC
Provide pollinator habitat, wildlife habitat and insectary planting plans upon request	7/16 – 6/17	Heather / Erin / Mark	2	\$1,000	WSCC
Provide engineering and technical assistance for streambank stabilization and riparian restoration projects that improve fish habitat and water quality	7/16 – 6/17	Rachel	6	\$5,000	WSCC / Grants

Implement Husseman Grant for Water Stargrass Removal	7/16 – 12/16	Rachel	15	\$3,800	ECY
Seek funding for a pilot project for large scale removal of Water Stargrass through dredging or chemical applications	7/16 – 6/17	Staff	4	\$1,000	Assessment
Identify additional access sites for public access on the Yakima River. Seek funding for land purchase or easements in partnership with Benton County, WDFW and City Parks Boards	7/16 – 6/17	Mark / Board	4	\$1,000	Assessment

District Program Area: Information – Education & District Operations Priorities

Goal(s): Demonstrated increase in district capacity and successful district operations. Administer a successful Voluntary Stewardship Program (funding dependent). Lead the state in the development and implementation of a statewide marketing and public outreach plan. Demonstrated increase in people number of people reached and number asking for services. Demonstrated increase in public awareness (survey & media).

Programmatic Measurable Result Objective: To Be Determined Based on Actual Grant Funding Levels

Funding Source(s): See Notes Section

Activities for FY2017	Target Dates	Person Responsible	Time(Days) Required	Estimated Funding	Notes
Implement BCD Education & Outreach Program Including: <ul style="list-style-type: none"> <li>• Salmon in the Classroom Program</li> <li>• Farm Fair, Kids Fishing Day, etc.</li> <li>• Junior Board Member Program</li> <li>• Web Based Media / Social Marketing</li> <li>• Print Media (Press Releases / News Articles)</li> <li>• Signage &amp; Brand Development</li> <li>• Conservationist of the Year Award Program, etc.</li> <li>• Virtual Tour(s) and Landowner Testimonials</li> </ul>	7/16 - 6/17	Rachel / Medora	271	\$65,000	WSCC / Assessment / Grants
Implement successful programs utilized by other agencies (Water on Wheels / Wheat Week / Stormwater Education)	7/16 - 6/17	Kara	77	\$29,000	WWC / Quad Cities / Assessment
Promote Farmland Preservation	7/16 – 6/17	Staff	2	\$500	Seeking Funding

Keep County Commissioners apprised of activities funded through assessment funds. Work towards having the Assessment moved over to a System of Rates and Charges	7/16 – 6/17	Mark / Heather / Board	10	\$4,000	Assessment
Increase expertise in accounting procedures and software	7/16 - 6/17	Mark / Heather / Bookkeeper	4	\$1,000	WSCC / Assessment
Administer funds, prepare required reports, maintain financial records, manage district activities and personnel	7/16 - 6/17	Mark / Heather / Bookkeeper	325	\$86,958	Grants / Assessment
Continue to update the District's capital asset list	7/16 - 6/17	Staff	1	\$250	Assessment
Attend WACD Annual Meeting, WADE Training, WACD Legislative Days, NACD Annual Meeting	Numerous	Board / Staff	12	\$5,000	WSCC



# FY2017 Annual Budget BENTON Conservation District

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	<u>Proposed</u>
Income	
3340333 · Non-Competitive Grants/WSCC	165,000
3370710 · District Assessment from County	197,000
3370900 · Intergovernmental Service Revenue	60,000
3611110 · Checking Interest	40
3611150 · Interest-WA Investment Pool	250
3611160 · Money Market Interest	315
3621000 · Equipment Rental Income	179
3671100 · Private Grants, Gift Donations	1,500
3699010 · Miscellaneous Revenue	1,000
Ecology Groundwater Grant	95,000
3810010 · Other Nonrevenue	250
Total Income	<u>520,534</u>
5531110 · Salaries & Wages	120,000
5531120 · Personnel Benefits	25,000
5531142 · Election Advertising	250
5531240 · Cost/Share Programs	90,000
5531831 · Office & Operating Supplies	12,000
5531832 · Fuel	2,500
5531835 · Tools & Equipment	5,000
5531841 · Professional Services	75,000
5531842 · Communication	7,500
5531843 · Travel	7,000
5531844 · Advertising	600
5531845 · Rentals & Leases	20,000
5531846 · Insurance	5,000
5531847 · Utilities	1,650
5531848 · Repairs & Maintenance	1,000
5531849 · Miscellaneous	6,000
5531851 · Intergovernmental Prof Services	120,000
5810010 · Other Non-expenditures	250
Total Expense	<u>498,750</u>