

See Chapter 8 for a description of this chart and its use in implementation.

Benton County VSP Adaptive Management Matrix | January 2017

Row #	Critical Area Goals	Critical Area Benchmark	Benchmark Type	Performance Metric (Implementation)	Performance Metric (Resource Measurement)	Monitoring Method	Adaptive Management Action Threshold	Adaptive Management Action	Who Monitors	When	Party Responsible for An Action	Funding source for Adaptive Management Action
	High level goal of project. There are just a handful.	Specific environmental conditions desired from project	Protection (P) or Enhancement (E)	What will be measured to know if benchmark is achieved	The measured effect of actions on critical areas	How the performance metric will be measured	Project result that, if achieved, must be addressed with an action	Action that will be taken if threshold is reached (A No Action Alternative is implied as an option)	Person or organization responsible for benchmark monitoring	When monitoring will occur	Person or Organization responsible for implementing adaptive management action (contracting and fiscal responsibility) if threshold is reached.	Organization with funding available to assist technical provider or agricultural owner
1.	Goal-I. Consistent with the Yakima Basin Integrated Water Resource Management Plan (YBIWRMP), ensure flows necessary to protect salmonids.	Benchmark-A. Maintain flow in Yakima River during critical periods	P	<ul style="list-style-type: none"> Irrigation efficiencies (both on-farm and in delivery) practices maintained Number of water exchanges, storage, transfers, voluntary regional agreements, and/or water trusts maintained related to agricultural use 	<ul style="list-style-type: none"> Area of connected floodplain for recharge (acres) in areas of agricultural intersect Minimum flows at designated locations (related to agricultural intersect) in critical low flow periods 	<ul style="list-style-type: none"> Tracking tool: The number and extent of conservation practices that promote irrigation efficiencies as of the baseline Tracking tool: Water resource agreements maintained or increased as of the baseline Mapped area of connected floodplain in areas of intersect is maintained or increased Ecology River and Stream Flow Monitoring or YBIWRMP monitoring results show maintenance or increases in minimum flows at river locations intersecting with agriculture 	<ul style="list-style-type: none"> X% reduction of conservation practices in areas of intersect. X% reduction in water agreements related to agricultural use important for minimum flows. X% reduction in areas of connected floodplain. X% reduction in minimum flow attributable to agricultural activities since baseline. 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to reestablish or add new irrigation efficiency conservation practices. Reestablish or increase water agreements with willing landowners. Evaluate if changed floodplain mapping is due to quality of mapping data or due to on-the-ground loss of critical area due to agriculture. 	BCD Type A XXX Type B XXX Type C XXX Type D	Type 1, except mapping Type 2	TBD	TBD
2.		Benchmark-B. Increase flow in Yakima River during critical periods	E	<ul style="list-style-type: none"> Irrigation efficiencies (both on-farm and in delivery) practices installed (acre feet conserved, instantaneous flow) Number of water exchanges, storage, transfers, voluntary regional agreements, and/or water trusts established related to agricultural use 			<ul style="list-style-type: none"> No increase in conservation practices in areas of intersect. No increase in water agreements related to agricultural use important for minimum flows. No increase in areas of connected floodplain. 	<ul style="list-style-type: none"> Increase floodplain connection projects with willing landowners. 	BCD Type A XXX Type B XXX Type C XXX Type D	Type 1, except mapping Type 2	TBD	TBD

PRIORITY GOALS & BENCHMARKS

Receive priority when determining available resources.

MONITORING ACTIVITY & RESPONSIBILITY

BCD Type A: Educate, facilitate, and/or implement conservation practices with willing landowners

XXX Type B: Tracking Tool / Database Management and Review

XXX Type C: Mapping

XXX Type D: Collect and Review Outside Monitoring Information: Ecology River and Stream Gauges, YBIWRMP Implementation Reports, Water Trusts, Other

XXX Type E: Producer Survey (Field Sample, Phone, or Online)

XXX Type F: Convene expert panel

XXX Type G: Annual Summary of VSP Activities

WHEN

Type 1: Annual, e.g. Tracking Tool Output | **Type 2:** Complete by September 1 of each biennium prior to required periodic evaluations and December 31 prior to each 5-year reporting period, with review time by Work Group.

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3.	Goal-II. Protect surface water quality in streams, wetlands, and agricultural drains in hydrologic study areas	Benchmark-C. Avoid runoff and erosion associated with agricultural activities	P	<ul style="list-style-type: none"> Maintenance of conservation practices to limit runoff and erosion due to agricultural activities 	<ul style="list-style-type: none"> Compliance with water quality regulations related to agricultural activities 	<ul style="list-style-type: none"> Tracking tool: The number and extent of conservation practices that address runoff and erosion, irrigation and water management Tracking tool: The number and extent of conservation practice addressing livestock management or exclusion 	<ul style="list-style-type: none"> X% reduction of conservation practices addressing runoff, erosion, irrigation, livestock management X% increase above water quality parameters 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to increase conservation practices. 	BCD Type A XXX Type B XXX Type D	Type 1	TBD	TBD
4.		Benchmark-D. Improve surface water quality conditions related to runoff and erosion associated with agricultural activities	E	<ul style="list-style-type: none"> Increased implementation of irrigation practices and irrigation water management to reduce erosion of soil Implementation of conservation practices that manage or exclude livestock from streams and wetlands 	<ul style="list-style-type: none"> Progress toward meeting Total Maximum Daily Load (TMDL) standards for suspended sediments and toxics where related to agricultural activities 	<ul style="list-style-type: none"> Ecology water quality monitoring results Ecology TMDL monitoring results 	<ul style="list-style-type: none"> No improvement in progress to meet TMDL parameters 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to increase irrigation and water management practices. 	BCD Type A XXX Type B XXX Type D	Type 1	TBD	TBD
5.		Benchmark-E. Investigate opportunities to recharge groundwater by flooding fields during high flows to create cool water refugia	E	<ul style="list-style-type: none"> Floodplain connectivity projects implemented 	<ul style="list-style-type: none"> Area of connected floodplain for recharge (acres) in areas of agricultural intersect 	<ul style="list-style-type: none"> Mapped area of connected floodplain in areas of intersect is maintained or increased 	<ul style="list-style-type: none"> No increase in areas of connected floodplain. 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to implement floodplain enhancement. 	XXX Type C	Type 2	TBD	TBD
6.		Benchmark-F. Maintain shading of streams/ wetland areas by native trees	P	<ul style="list-style-type: none"> Maintain conservation practices to exclude livestock from streams and wetlands 		<ul style="list-style-type: none"> Ecology River and Stream Flow Monitoring or YBIWRMP monitoring results 	<ul style="list-style-type: none"> X% increase above stream temperature parameters 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to increase conservation practices. 	BCD Type A XXX Type B XXX Type D	Type 1	TBD	TBD
7.		Benchmark-G. Enhance shading of streams/ wetland areas by native trees	E	<ul style="list-style-type: none"> Implementation of conservation practices to exclude livestock from streams and wetlands Riparian planting/protection projects (acres and linear feet) 	<ul style="list-style-type: none"> Stream temperatures suitable for priority fish attributable to agricultural activities 	<ul style="list-style-type: none"> Tracking tool: The number and extent of conservation practice addressing livestock management or exclusion Sample areas using aerial photography or site visits by technical assistance providers 	<ul style="list-style-type: none"> No increase in conservation practices addressing livestock management No increase in riparian planting or protection projects 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to increase conservation practices. Seek willing landowners in priority locations to implement riparian planting or protection projects. 	BCD Type A XXX Type B XXX Type D XXX Type E	Type 1, except survey Type 2	TBD	TBD

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MONITORING ACTIVITY & RESPONSIBILITY

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8.		Benchmark-H. Control water stargrass abundance and prevent new populations	P	<ul style="list-style-type: none"> Conservation practices implemented to address stargrass 	<ul style="list-style-type: none"> Stargrass abundance 	<ul style="list-style-type: none"> Sample areas using site visits by technical assistance providers 	<ul style="list-style-type: none"> X% increase in stargrass attributable to agricultural activities 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to increase conservation practices. 	BCD Type A XXX Type B XXX Type E	Type 1, except survey Type 2	TBD	TBD
9.		Benchmark-I. Reduce water stargrass abundance	E			<ul style="list-style-type: none"> Number and extent of stargrass removal projects 	<ul style="list-style-type: none"> No stargrass reduction 	<ul style="list-style-type: none"> Seek willing landowners in priority locations to implement stargrass removal projects. 	BCD Type A XXX Type B XXX Type E	Type 1, except survey Type 2	TBD	TBD
10.	Goal-III. Protect shrub-steppe habitat and connectivity without restricting ongoing agricultural activities	Benchmark-J. Protect blocks of intact shrub steppe habitat and currently utilized connectivity corridors	P	<ul style="list-style-type: none"> Agricultural area managed to minimize impacts to shrub-steppe (acres) Area of shrub-steppe linkage or pinch point protected (acres) Area of high quality shrub-steppe protected through easements, acquisition, CRP/CREP, and other strategies (acres) 	<ul style="list-style-type: none"> Area of intact shrub steppe habitat Extent of connectivity corridors 	<ul style="list-style-type: none"> Tracking tool: Shrub-steppe management practices Mapped area of shrub-steppe habitat Mapped area of habitat connectivity corridors including linkages and pinch points Sample areas using aerial photography and site visits by technical assistance providers 	<ul style="list-style-type: none"> X% reduction in shrub-steppe habitat due to agricultural conversion X% reduction in habitat connectivity corridors including linkages and pinch points 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to alter management practices to allow shrub-steppe to reestablish Seek willing landowners to enhance or restore habitat in high value blocks or connectivity corridors in exchange for lower value shrub-steppe conversion 	BCD Type A XXX Type B XXX Type C XXX Type D XXX Type E	Type 1, except mapping and survey Type 2	TBD	TBD
11.		Benchmark-K. Enhance shrub steppe habitat blocks and shrub steppe corridors with the first priority as current blocks and currently utilized connectivity corridors and the second priority as historical or likely suitable connectivity corridors that could be established or renewed through voluntary landowner cooperation	E			<ul style="list-style-type: none"> Area of high quality shrub-steppe enhanced or restored (acres) Area of shrub-steppe linkage or pinch point enhanced or restored (acres) 	<ul style="list-style-type: none"> X% increase in shrub-steppe habitat protected, enhanced, or restored X% increase in protected, enhanced, or restored habitat connectivity corridors including linkages and pinch points 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to alter management practices to allow shrub-steppe to reestablish Seek willing landowners to enhance or restore habitat in high value blocks or connectivity corridors in exchange for lower value shrub-steppe conversion 	BCD Type A XXX Type B XXX Type C XXX Type D XXX Type E	Type 1, except mapping and survey Type 2	TBD	TBD

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12.	Goal-IV. Manage shrub-steppe habitat to improve resiliency to fire	Benchmark-L. Encourage diversity of native grasses in place of cheatgrass to promote resiliency	E	<ul style="list-style-type: none"> Conservation practices implemented to control cheat grass and plant native grasses (acres); practices may include prescribed grazing, Integrated Pest Management to , establishing desired vegetation, or other measures 	<ul style="list-style-type: none"> Reduced cheatgrass and increased native grasses Reduced frequency and intensity of fire over time (long-term trend) 	<ul style="list-style-type: none"> Tracking tool: The number and extent of conservation practices that address cheatgrass or other invasive species Sample areas using site visits by technical assistance providers 	<ul style="list-style-type: none"> X% increase in cheatgrass X% decrease in native grasses 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to increase conservation practices. Promote implementation of native grass planting through enhancement or restoration 	BCD Type A XXX Type B XXX Type E	Type 1, except survey Type 2	TBD	TBD
13.	Goal-V. Protect native plant community diversity	Benchmark-M. Control invasive species on agricultural lands, and protect native species diversity	P	<ul style="list-style-type: none"> Continuation of practices to maintain botanical diversity such as prescribed grazing, Integrated Pest Management or other measures 	<ul style="list-style-type: none"> Increased native species diversity 	<ul style="list-style-type: none"> Tracking tool: The number and extent of conservation practices that address native species Sample areas using site visits by technical assistance providers 	<ul style="list-style-type: none"> X% increase in invasive species X% decrease in native plants 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to increase conservation practices. 	BCD Type A XXX Type B XXX Type E	Type 1, except survey Type 2	TBD	TBD
14.		Benchmark-N. Reduce invasive species on agricultural lands, and enhance native species diversity	E	<ul style="list-style-type: none"> Implementation of measures to control invasive species and enhance native species diversity, including host plants for pollinators 		<ul style="list-style-type: none"> X% increase in native plants including for pollinators 	<ul style="list-style-type: none"> Promote implementation of native plant enhancement or restoration 	BCD Type A XXX Type B XXX Type E	Type 1, except survey Type 2	TBD	TBD	
15.	Goal-VI. Protect groundwater recharge in areas of declining water tables or where recharge can help maintain base flows for rivers and streams	Benchmark-O. Maintain on-farm water conservation practices, such as irrigation water management and efficient irrigation systems	P	<ul style="list-style-type: none"> On-farm irrigation efficiencies are maintained (acre feet conserved) 	<ul style="list-style-type: none"> Groundwater levels at specified locations associated with agriculture 	<ul style="list-style-type: none"> Tracking tool: The number and extent of conservation practices that address 	<ul style="list-style-type: none"> X% decrease in irrigation practice implementation 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to address irrigation practices 	BCD Type A XXX Type B	Type 1	TBD	TBD
16.		Benchmark-P. Increase on-farm water conservation practices, such as irrigation water management and efficient irrigation systems	E	<ul style="list-style-type: none"> On-farm irrigation efficiencies installed (acre feet conserved) are increased Floodplain connectivity projects implemented 		<ul style="list-style-type: none"> Mapped area of connected floodplain in areas of intersect is maintained or increased 	<ul style="list-style-type: none"> No increase in areas of connected floodplain 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to implement floodplain enhancement. 	XXX Type C	Type 2	TBD	TBD

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17.	Goal-VII. Protect groundwater quality in areas of agricultural intersect	Benchmark-Q. Maintain on-farm water conservation practices, such as irrigation water management and efficient irrigation systems	P	<ul style="list-style-type: none"> On-farm irrigation efficiencies installed (acre feet conserved) Floodplain connectivity projects 	<ul style="list-style-type: none"> Groundwater levels at specified locations associated with agriculture 	<ul style="list-style-type: none"> Tracking tool: The number and extent of conservation practices that promote irrigation efficiencies as of the baseline Mapped area of connected floodplain in areas of intersect is maintained or increased Groundwater information from Ecology's Environmental Assessment Program's groundwater-focused projects 	<ul style="list-style-type: none"> X% reduction of conservation practices in areas of intersect. X% reduction in areas of connected floodplain. X% reduction in minimum flow attributable to agricultural activities since baseline. 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to reestablish or add new irrigation efficiency conservation practices. Evaluate if changed floodplain mapping is due to quality of mapping data or due to on-the-ground loss of critical area due to agriculture. 	BCD Type A XXX Type B XXX Type C XXX Type D	Type 1, except mapping Type 2	TBD	TBD
18.		Benchmark-R. Increase on-farm water conservation practices, such as irrigation water management and efficient irrigation systems	E				<ul style="list-style-type: none"> No increase in conservation practices in areas of intersect. No increase in areas of connected floodplain. 	<ul style="list-style-type: none"> Increase floodplain connection projects with willing landowners. 	BCD Type A XXX Type B XXX Type C XXX Type D	Type 1, except mapping Type 2	TBD	TBD
19.		Benchmark-S. Avoid increases in leaching of nitrogen and other contaminants into groundwater	P	<ul style="list-style-type: none"> Implementation of conservation practices to limit runoff 	<ul style="list-style-type: none"> Groundwater quality in areas of agricultural intersect 	<ul style="list-style-type: none"> Groundwater well monitoring from XXX 	<ul style="list-style-type: none"> X% decrease in groundwater quality based on federal or state standards 	<ul style="list-style-type: none"> Evaluate if changed wetlands mapping is due to quality of mapping data or due to on-the-ground loss of natural wetlands due to agriculture. 	BCD Type A XXX Type B XXX Type C XXX Type D	Type 1, except mapping Type 2	TBD	TBD
20.		Benchmark-T. Reduce leaching of nitrogen and other contaminants into groundwater	E	<ul style="list-style-type: none"> On-farm irrigation efficiencies installed (acre feet conserved) to limit agricultural runoff from recharging groundwater Wetland protected or restored (acres) 	<ul style="list-style-type: none"> Groundwater conserved due to irrigation efficiencies Wetlands functions and values protected in areas of agricultural intersect 	<ul style="list-style-type: none"> Tracking tool: The number and extent of conservation practices that promote water efficiencies Mapped area of wetlands in areas of agricultural intersect 	<ul style="list-style-type: none"> No increase in conservation practices in areas of intersect. No increase in areas of wetlands protection or restoration 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to test for nitrates and reduce nitrates with appropriate practices Increase floodplain connection projects with willing landowners. 	BCD Type A XXX Type B XXX Type C XXX Type D	Type 1, except mapping Type 2	TBD	TBD

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21.	Goal-VIII. Protect the functions and values of wetlands	Benchmark-U. Maintain wetland functions and values, with a priority for protecting wetlands with high habitat functions and floodplain wetlands along the Yakima and Columbia Rivers	P	<ul style="list-style-type: none"> Floodplain wetland area protected in CRP/CREP, conservation easement, or in-lieu fee (acres) 	<ul style="list-style-type: none"> Area of wetlands adjacent to the Yakima and Columbia Rivers 	<ul style="list-style-type: none"> Tracking tool: The number and extent of conservation practices that protect floodplain wetlands 	<ul style="list-style-type: none"> X% reduction of conservation practices in areas of intersect. X% reduction in areas of floodplain wetlands in areas of intersect. 	<ul style="list-style-type: none"> Evaluate if changed wetlands mapping is due to quality of mapping data or due to on-the-ground loss of floodplain wetlands due to agriculture. 	BCD Type A XXX Type B XXX Type C XXX Type E	Type 1, except mapping and survey Type 2	TBD	TBD
22.		Benchmark-V. Enhance natural wetlands in the county, with a priority towards floodplain wetland functions along the Yakima and Columbia Rivers	E	<ul style="list-style-type: none"> Wetland restoration, enhancement, and creation projects in areas of intersect with a priority implemented along the Yakima and Columbia Rivers (acres) 	<ul style="list-style-type: none"> Functions and values of wetlands in areas of agricultural intersect 	<ul style="list-style-type: none"> Mapped area of floodplain wetlands in areas of agricultural intersect Sample areas using aerial photography or site visits by technical assistance provider 	<ul style="list-style-type: none"> No increase in conservation practices in areas of intersect. No increase in areas of wetlands protection or restoration 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to implement wetland conservation practices Increase wetland enhancement or restoration projects with willing landowners. 	BCD Type A XXX Type B XXX Type C XXX Type E	Type 1, except mapping and survey Type 2	TBD	TBD
23.		Benchmark-W. Avoid increases in the presence of invasive species in and around wetlands, and protect native species diversity	P	<ul style="list-style-type: none"> Implementation of integrated pest management practices, prescribed grazing, or other measures 	<ul style="list-style-type: none"> Distribution and abundance of invasive species Distribution, abundance, and composition of native species 	<ul style="list-style-type: none"> Tracking tool: The number and extent of conservation practices that promote removal of invasive species Sample areas using aerial photography or site visits by technical assistance provider 	<ul style="list-style-type: none"> X% reduction of conservation practices in areas of intersect. X% reduction in areas of natural wetlands in areas of intersect. 	<ul style="list-style-type: none"> Evaluate if changed wetlands mapping is due to quality of mapping data or due to on-the-ground loss of natural wetlands due to agriculture. Seek willing landowners in areas of intersect to implement wetland conservation practices 	BCD Type A XXX Type B XXX Type C XXX Type E	Type 1, except mapping and survey Type 2	TBD	TBD
24.		Benchmark-X. Reduce the presence of invasive species in and around wetlands, and enhance native species diversity	E	<ul style="list-style-type: none"> Reduce the presence of invasive species in and around wetlands, and enhance native species diversity 			<ul style="list-style-type: none"> No increase in conservation practices in areas of intersect. No decrease in invasive species or increase in native species 	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to implement invasive species removal and native species enhancement conservation practices 	BCD Type A XXX Type B XXX Type C XXX Type E	Type 1, except mapping and survey Type 2	TBD	TBD

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25.	Goal-IX. Protect natural floodplain functions	Benchmark-Y. Maintain floodplain connectivity	P	<ul style="list-style-type: none"> Floodplain protection projects 	<ul style="list-style-type: none"> Area of connected floodplain for recharge (acres) in areas of agricultural intersect 	<ul style="list-style-type: none"> Mapped area of connected floodplain in areas of intersect 	<ul style="list-style-type: none"> X% reduction in areas of connected floodplain due to agricultural activities. 	<ul style="list-style-type: none"> Evaluate if changed floodplain connectivity mapping is due to quality of mapping data or due to on-the-ground loss of floodplain connectivity due to agricultural activities. Seek willing landowners in areas of intersect to implement floodplain connection restoration projects 	TBD (Benton County Emergency Services?)	Type 2	TBD	TBD
26.		Benchmark-Z. Enhance floodplain connectivity	E	<ul style="list-style-type: none"> Floodplain enhancement projects 	<ul style="list-style-type: none"> Area of floodplain restored (acres) in areas of agricultural intersect 		<ul style="list-style-type: none"> No increase in areas of connected floodplain due to agricultural activities. 	TBD (Benton County Emergency Services?)	Type 2	TBD	TBD	
27.	Goal-X. Maintain or reduce hazards to physical safety associated with flooding	Intersect areas are protected by the regulatory backstop including flood hazard management regulations and pesticide regulations. No benchmarks or measurement required.	P	<ul style="list-style-type: none"> Continued application of flood hazard regulations. 	Not applicable.	Not applicable.	Not applicable.	Not applicable.	County implementation of flood hazard regulations in Critical Areas Ordinance.	Not applicable.	Not applicable.	Not applicable.
28.	Goal-XI. Protect the integrity of steep slopes associated with agricultural production	Benchmark-AA. Maintain integrity of steep slopes	P	<ul style="list-style-type: none"> Vegetation retained along steep slopes adjacent to agricultural activities (acres) Implementation of conservation practices for slope stability (e.g. contour planting, retaining native vegetation, irrigation efficiencies) 	<ul style="list-style-type: none"> Wind erosion and sheet and rill erosion in areas of intersect where basinwide tracking is available through NRCS tools Transport of sediment in areas of intersect as measured in Ecology water quality results Water infiltration as measured with groundwater quality results 	<ul style="list-style-type: none"> Tracking tool: The number and extent of conservation practices addressing slope stability and erosion Sample areas subject to erosion for vegetative cover using aerial photography and site visits by technical assistance providers. Surrogates for monitoring include conservation practice implementation tracking and aerial photography for indirect participation. Evaluate water quality monitoring of sediments in hydrologic study areas, where such results can be 	<ul style="list-style-type: none"> Net loss of more than X% vegetation in areas of intersect and steep slopes Measurable decrease in water quality below State standards where results can be attributed to agricultural activities. 	<ul style="list-style-type: none"> Implement conservation practices to reestablish lost vegetation with current and added VSP Participants. Where appropriate, conduct water quality assessments and identify control programs or improvement projects. 	BCD Type A XXX Type B XXX Type C XXX Type D XXX Type E	Type 1, except mapping and survey Type 2	TBD	TBD
29.		Benchmark-BB. Improve integrity of steep slopes	E	<ul style="list-style-type: none"> Irrigation efficiencies employed at the top of slopes 						BCD Type A XXX Type B XXX Type C XXX Type D XXX Type E	Type 1, except mapping and survey Type 2	TBD

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XXX Type D: Collect and Review Outside Monitoring Information: Ecology River and Stream Gauges, YBIWRMP Implementation Reports, Water Trusts, Other

XXX Type E: Producer Survey (Field Sample, Phone, or Online)

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XXX Type G: Annual Summary of VSP Activities

WHEN

Type 1: Annual, e.g. Tracking Tool Output | **Type 2:** Complete by September 1 of each biennium prior to required periodic evaluations and December 31 prior to each 5-year reporting period, with review time by Work Group.

Row #	Critical Area Goals	Critical Area Benchmark	Benchmark Type	Performance Metric (Implementation)	Performance Metric (Resource Measurement)	Monitoring Method	Adaptive Management Action Threshold	Adaptive Management Action	Who Monitors	When	Party Responsible for An Action	Funding source for Adaptive Management Action
						attributed to agricultural activities						

DRAFT

PRIORITY GOALS & BENCHMARKS

Receive priority when determining available resources.

MONITORING ACTIVITY & RESPONSIBILITY

BCD Type A: Educate, facilitate, and/or implement conservation practices with willing landowners

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30.	Goal-XII. Promote volunteerism and stewardship of agricultural land and critical areas.	Benchmark-A. Sufficient participation by commercial and non-commercial agricultural operators that achieves the protection of critical area functions and values across WRIA basins.		<ul style="list-style-type: none"> • X annual outreach events held or education opportunities provided reported each biennium. • X minimum landowners contacted within 1 year of plan approval. Annually, County Assessor mailer to current use tax participants. Annually information is provided to past and current VSP participants by Technical Providers. • Technical assistance sought by cumulative number of calls, meetings, applications, and contracts is maintained or increased. • VSP participants in each WRIA basin by each biennium is maintained or increased. • X% of agricultural acreage in each basin based on self-certification entries by VSP Participants as of first biennium, which is maintained or increased each biennium thereafter. 	<ul style="list-style-type: none"> • Not applicable 	<ul style="list-style-type: none"> • Indicators of active participation include: <ul style="list-style-type: none"> ○ Number of outreach events ○ Number/percentage of landowners contacted ○ Number of event attendees ○ Number of VSP participation signs and marketing materials distributed ○ Education opportunities provided ○ Technical assistance sought by producers (as tracked through meetings, calls, applications, and contracts with technical assistance providers) ○ Self-certification: See Appendix X for a checklist. 	X% reduction in participation in VSP program, by WRIA basin	<ul style="list-style-type: none"> • Increase outreach and education events. • Identify who drops out and why to modify outreach. 	BCD Type A XXX Type B XXX Type E XXX Type G	Type 1, Except survey Type 2	TBD	TBD

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31.		Benchmark-B. Passive participation by commercial and non-commercial agricultural operators in VSP conservation practices is maintained or increased over 10 years on agricultural land.		<ul style="list-style-type: none"> Acres of collective conservation practices is unchanged or increased. Survey demonstrates an increase in understanding of VSP in agricultural households. 	<ul style="list-style-type: none"> Not applicable 	<ul style="list-style-type: none"> Passive participation in common stewardship practices may be tracked and reported using one or more methods: <ul style="list-style-type: none"> Mapping and aerial photo evaluation of practices in place, and Random sampling of farmers and ranchers in the field by technical assistance providers with willing landowners, or Phone, mail, or online surveys, or Census of agriculture or other broadly gathered and published information (only available periodically). 	X% reduction in acres where conservation practices are applied. X% reduction in awareness of VSP program	<ul style="list-style-type: none"> Seek willing landowners in areas of intersect to reestablish conservation practices Increase outreach and education events. 	XXX Type C XXX Type E	Type 2	TBD	TBD

PRIORITY GOALS & BENCHMARKS

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