Detailed Implementation Plan

Yakima River Basin

WRIAs 37, 38 & the Jurisdictional Areas of Yakima County in WRIA 39

Water Resources Advisory Committee

And

Yakima Basin Water Resources Agency

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Acronyms and Abbreviations

af AFO afy ASR BCD BFHD BID BOD BPA CA CA CAFO CAG CCW CCWUG CD CFHMP cfs CHD CD CFHMP cfs CHD CID CNTY CPD CREP CTY CWA DO Ecology EIS EPA ESA ESHB	Acre feet Animal Feeding Operation Acre-feet per year Aquifer Storage and Recovery Benton Conservation District Benton-Franklin Health District Buena Irrigation District Biochemical Oxygen Demand Bonneville Power Administration Coordinating Agency Confined Animal Feeding Operation Conservation Advisory Group Centennial Clean Water Cowiche Canyon Water Users Group Conservation Districts Comprehensive Flood Hazard Management Plan cubic feet per second County Health Department Columbia Irrigation District Counties County Planning Department Conservation Reserve Enhancement Program Cities Clean Water Act (Federal) Dissolved Oxygen Washington State Department of Ecology Environmental Impact Statement United States Environmental Protection Agency Endangered Species Act Enhanced Substitute House Bill
-	Endangered Species Act
FCAAP	Flood Control Assistance Account Program
GMA ID	Growth Management Act Irrigation Districts
IND	Industry
IGA KCCD	Intergovernmental Agreement
KID	Kittitas County Conservation District Kennewick Irrigation District
KRD	Kittitas Reclamation District
Landowners	Individual landowners, local water purveyors
M-CFEG	Mid-Columbia Fisheries Enhancement Group
MOA	Memorandum of Agreement
MOU NAWCA	Memorandum of Understanding North American Wetlands Conservation Act
NAWCA	

Acronyms and Abbreviations (Cont.)

NAWQA NEPA NMFS NOAA NPDES NRCS NSID NYCD O&M PTC PWS RCW RID ROWG RSBOJC SBP	National Water Quality Assessment National Environmental Policy Act National Marine Fisheries Service National Oceanic and Atmospheric Administration National Pollutant Discharge Elimination System Natural Resources Conservation Service Naches-Selah Irrigation District North Yakima Conservation District Operation and Maintenance Private Timber Companies Public Water Systems Revised Code of Washington Roza Irrigation District River Operations Advisory Group Roza-Sunnyside Board of Joint Control Subbasin Plan
SCWRC&D	South Central Washington Resource Conservation &
SEPA	Development State Environmental Policy Act
SMA	Shorelines Management Act
SMP	Shorelines Management Plan
SOAC	System Operations Advisory Committee
SRFB	State Salmon Recovery Fund Board
SRP	(Yakima Subbasin) Salmon Recovery Plan
SVID	Sunnyside Valley Irrigation District
SYCD	South Yakima Conservation District
TAPPS	Technical Applications, Habitat Program, WDFW
TMDLs	Total Maximum Daily Loads
TWG	Technical Work Group
TWSA	Total Water Supply Available
USBR	United States Bureau of Reclamation
USGS	United States Geological Survey
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
WCC	Washington State Conservation Commission
WCD	(County) Water Conservancy Boards
WD	Water Districts
WDFW	Washington State Department of Fish and Wildlife
WDNR	Washington State Department of Natural Resources
WDOA	Washington State Department of Agriculture
WDOE	Washington State Department of Ecology
WDOH WID	Washington State Department of Health
עויי	Wenas Irrigation District

Acronyms and Abbreviations (Cont.)

WIP Wapato Irrigation Project	
WMA Watershed Management Act	
WMP Watershed Management Plan, Yakima River Basin, 20	03
WQA Water Quality Act (State)	
WRAC Water Resources Advisory Committee	
WSU Washington State University	
WTWG Water Transfer Work Group	
WWTP Waste Water Treatment Plant	
YBFWRB Yakima Basin Fish and Wildlife Recovery Board	
YBJB Yakima Basin Joint Board	
YBSA Yakima Basin Storage Alliance	
YBSRB Yakima Basin Salmon Recovery Board	
YBWRA Yakima Basin Water Resources Agency	
YKFP Yakima-Klickitat Fisheries Project	
YRBWEP Yakima River Basin Water Enhancement Project	
YSSRP Yakima Subbasin Salmon Recovery Plan	
YTAHP Yakima Tributary Access & Habitat Program	
YTID Yakima-Tieton Irrigation District	

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Water Quality Monitoring Activities in 2006 in the Yakima Basin						
Agency	Brief Description	Parameters	Frequency	Number of sites	Locations	
Benton Conservation District	Evaluate temperature in the Yakima R. before planting riparian buffer.	Temperature	Continuous for unknown duration this spring.	Unknown.	Yakima R. adjacent to Horn Rapids Park.	
	Assist USGS, SYCD w/ Eutrophication Study.	See USGS-Portland.				
Kennewick Irrigation District	Ambient	Turbidity, NO3+2, DO, pH, specific conductance, temperature.	Monthly.	4 canal sites	Kennewick Irrigation District canal.	
	NPDES compliance.	Acrolein, copper sulfate	During treatment.	2 discharge pts.	Amon Ck Wasteway (spills to Yakima R.) and Hover (spills to Columbia R.).	
Kittitas County Conservation District	in support of the Upper Yakima Suspended Sediment, Turbidity and Organochlorine Pesticide TMDL.	TSS, turbidity, temperature	Temperature, continuous from at least June thru Sept. Turbidity and TSS: biweekly April-June and monthly from July onwards.	10 temperature, 11 sediment sites.	Teanaway tributaries and mainstem.	
Kittitas County Water Purveyors	Compliance with Upper Yakima TSS TMDL	TSS, Q, turbidity, temperature	Turbidity weekly and continuously. TSS & Q bi- weekly. Turbidity monitors deployed March to as late as possible.	11 turbidity (discrete sampling) & TSS sites. 5 Q sites. 5 turbidity continuous monitor sites.	TSS TMDL sites: Yakima R. tribs (irrigation return drains and creeks). Continuous turbidity monitors: Wipple Wasteway, Naneum Ck at Fiorito, Cherry Ck above Whipple WW, Wilson Ck.	
	Baseline temperature data to prepare for future TMDLs.	Temperature	Temperature loggers deployed April-October.	80 temperature loggers.	Yakima R. mainstem and tribs.	
Kittitas Reclamation District	NPDES permit compliance.	Acrolein, xylene, copper sulfate	During treatment. Generally one or more waterways are treated each week from late May to early September.	sampled in any given week.	creeks and the Yakima R. at 18 locations.	
North Yakima Conservation District	Evaluate water quality for salmonid suitability.	Temperature, DO, pH, specific conductance, salinity, turbidity, NO3+2, TP, fecal coliform, total coliform, and <i>e. coli</i> .	Twice monthly, except continuous temperature monitors.	12	Taylor Ditch (Yakima R. trib).	

Agency	Brief Description	Parameters			Locations
Roza-	Long-term monitoring of major	Q, Turbidity, TSS, TP,		6 discrete plus 22	Discrete sampling in Granger
Sunnyside	canal diversions and mouths of	TKN, NH3 if TKN > 1	irrigation season, except	temperature sites.	Drain, Sulphur Creek Wasteway,
Board of Joint	major irrigation return drains.	mg/L, NO3+2, fecal	weekly at Granger Drain.		Spring Creek, Snipes Creek,
Control		coliform, <i>e. coli</i>	Monthly during non-irrigation		Roza Diversion, and Sunnyside
		(Granger Drain only),	season.		Canal Diversion. Temperature
		DO, pH, and specific			loggers at several sites in the
		conductance.			drains.
		Temperature (grab and			
		continuous).			
	Artificial wetlands treatment	Turbidity, TSS, TP,	Every other week		RSBOJC wetland on DR 25.
	effectiveness.	TKN, NO3+2, fecal		leading to the	
		coliform, Q, DO, pH,		wetland, 3 in the	
		temperature, and		wetland.	
		specific conductance.			
	NPDES permit compliance.	Acrolein			Irrigation return drains and
			one or more waterways are	sampled in any	canals which discharge into the
				given week.	Yakima R.
			May to early September.		
South Yakima	Lower Yakima River				
Conservation	Eutrophication Study	See USGS-Portland.			
District					
US Bureau of	Ambient	Temperature, Q	Real-time	21 temp,	Keechelus to Prosser.
Reclamation				29 stream Q,	Bumping/Tieton to
				14 canal Q	mouth of Naches.
	Model development	Temperature	Daily	± 12	8 mainstem -Swauk to Granger.
					Big, Satus, Toppenish,
					Teanaway.
		Sediment	Seasonal	10 to 12	Easton to Grandview.
USFS-Naches	Ambient	Temperature	Continuous June-October	25 to 50 sites	Mainstem and tributaries upper
Ranger District					Naches Basin.
	Forest plan compliance, in	Fine sediment in	Late summer annually	8-10 reaches	Little Naches Basin, South Fork
	cooperation with the Yakama	spawning gravels			Tieton River.
	Nation.				
USGS-Pasco	Long-term flow monitoring.	Q	Every 6-8 weeks. 4 sites are	6	American R. nr confluence with
			real-time.		Bumping Lake, Ahtanum Ck nr
					mouth, and Yakima R. at
					Umtanum, Union Gap, Mabton,
			<u>]</u>		and Kiona.
	Assist with special projects.		See USGS	S-Tacoma.	

Agency	Brief Description	Parameters	Frequency	Number of sites	Locations
USGS-Portland	Lower Yakima River Eutrophication Study	Continuous: DO, pH, temperature, specific conductance, and turbidity. Discrete: TP, OP, NO3+2, TKN, ammonia, chlorophyll <i>a</i> , ash-free dry mass, photosynthetically- available radiation, macrophyte biomass.	Continuous: every 15 minutes. Discrete: intermittent.	2 continuous monitor sites. 5 nutrient sites.	Continous monitors at Kiona and near Zillah. Nutrient and other sampling throughout Kiona and Zillah reaches.
USGS-Tacoma	NAWQA water quality monitoring	Suspended sediment, chlorides and sulfates, nutrients, pesticides.	6 times per year	1 site	Yakima River at Kiona.
	Develop temperature model for Yakima and Naches rivers.	Temperature, Q	Continuous: 30 minute intervals.	14 temperature monitoring sites, 4 temp. and stage monitoring sites.	Gold Creek nr Hyak, Box Canyon Ck, Tieton R. nr. mouth, Naches R.at Cowiche Diversion Dam, Cowiche Ck nr mouth, Wide Hollow Ck nr mouth, Yakima R.at Union Gap,Yakima R. at Wapato Wells, Lateral 1 nr. Wapato, E.Toppenish Drain nr.Toppenish, Sub Drain #35 at Connie Rd., Marion Drain at Indian Church Rd., Toppenish Ck. at Indain Church Rd., Coulee Drain at Satus Rd., Satus Ck nr. Satus, South Drain at Hwy. 22, DID #7at Green Valley Rd., Satus Drain 303 and Mabton Wasteway.
Wapato Irrigation Project (Bureau of Indian Affairs)	Long-term monitoring of major irrigation return drains.	TSS, turbidity, NO3+2, TKN, NH3, TP, fecal coliform, <i>e. coli.</i>	Monthly or every other week during irrigation season.	8	Marion Drain, Sub Drain 35 @ Connie Rd, Parton Drain, Sub Drain 93, E. Toppenish Drain, Sub Drain 35, Mud Lake Drain, main canal diversion.
Washington Dept. of Ecology	Long-term monitoring	Conductivity, fecal coliform, flow, NH3, NO3+2, OP, TP, DO, pH, temperature, barometric pressure, TSS, TPN, turbidity.	Monthly.	3	Yakima R. near Cle Elum, at Nob Hill, and at Kiona.

Agency	Brief Description	Parameters	Frequency	Number of sites	Locations
Washington Dept. of Ecology (continued)	Yakima Tributaries Fecal Coliform Bacteria TMDL Assessment	Fecal coliform, TSS, turbidity, chloride, Q, <i>e.coli</i> , %KES (Klebsiella, Enterobacter, Serratia), pH, DO, conductivity, temperature, time-of-	Monthly or twice monthly at fixed stations plus approx. 8 synoptics over 2 years, incl. 2 stormwater events.	28	Ahtanum Ck, Wide Hollow Ck, Moxee Drain.
	Effectiveness monitoring for the Upper Yakima Suspended Sediment, Turbidity and Organochlorine Pesticide TMDL.	travel. Turbidity, TSS, total volatile solids.	Every other week during irrigation season. Concurrent sampling monthly w/ KRD and KCCD at Manashtash Ck.	6	Manashtash Ck, Naneum Ck, (background sites) and Yakima R. at Cle Elum, Umtanum Rd, near mouth of Umtanum Ck, and at Harrison Rd bridge.
	Pesticide monitoring in conjunction with Washington Dept. of Agriculture.	51 pesticides and degradates, incl. DDT, azinphos methyl, carbaryl, chlorpyrifos, diazinon, disulfoton, and malathion. Q at Marion Drain and Spring Ck.	Weekly, March thru Oct.	4	Marion Drain, Sulphur Creek Wasteway, Spring Ck (2 sites).
	Lower Yakima River TSS & DDT effectiveness monitoring	DDT, metabolites, dieldrin, endosulfan, PCBs, fish tissue	One-time		Keechulus & Kachees reservoir, YR at 4 sites (below Cle Elum, Ellensburg, Naches R, Cowiche Ck) and in 3 reaches (Wapato, Sunnyside, Kiona).
Yakama Nation	Long-term monitoring of major irrigation return drains.	TSS, turbidity, NO3+2, TKN, ammonia, TP,fecal coliform, <i>e.</i> <i>coli.</i>	Monthly or every other week during irrigation season.	10	Satus Drain 303, Satus Drain 302, Spillway Drain 2, Satus South Drain, Satus North Drain, Satus Ck @ Diversion Dam, Satus Canal Diversion nr Fish Screen, Satus Ck @ Gaging Station, Lower Toppenish Ck, Coulee Drain.

1.0 INTRODUCTION

This Detailed Implementation Plan (DIP) guides achievement of the actions proposed in the Watershed Management Plan (Plan) for the Yakima River Basin approved January 2003. In addition, it fulfills the requirements of Chapters 90.82.043 and 90.82.048 RCW. It addresses actions proposed for Watershed Resource Inventory Areas (WRIAs) 37 and 38 and jurisdictional areas of Yakima County in WRIA 39. This Plan is intended to provide a balanced approach to protecting and enhancing the watershed while considering its physical, social and economic limitations and adhering to local, state, and federal environmental standards.

The DIP was developed cooperatively by representatives of counties, cities, irrigation districts, conservation districts, and other interest groups or individuals concerned with the best use of water in the Yakima River Basin. It identifies specific ways that individual agencies and organizations will carry out the proposed actions, facilitates communication and coordination between implementing partners, and stipulates oversight responsibilities. Implementing partners have detailed their ongoing and planned projects (Appendix B). In the Coordinated Actions Tables (DIP sections 4.2.1 - 4.2.6), these individual projects and strategies have been combined under the relevant actions that were proposed in the Watershed Management Plan.

Undertaking the actions described in the DIP is voluntary and depends on availability of staff and funding. The DIP is intended to enhance the efficient use of existing resources and help secure additional funding. Furthermore, it will increase communication with implementing partners, coordinate related actions, and expand shared information and experience which can improve funding opportunities. In addition, the DIP lists possible funding sources in section 2.6.

The DIP should be considered a living document which will incorporate new information from scientific study, changes in land and water use, and availability of water and/or financial resources. The WRAC will review the DIP for needed updates. In addition, other agencies, cities, counties, and organizations will be encouraged to join the coordinated efforts detailed in this Implementation Plan.

<u>Disclaimer</u>: The DIP is intended to be a stand alone document without repeating all the materials in the Plan. Therefore, the narrative is in many respects a summarization of the Watershed Management Plan. Additional information has been included to show the current status and progress made since the Plan was approved in 2003. This does not change the language, actions, and content of the approved Plan. Full descriptions of the elements of the DIP can be found in the Plan. The DIP for the Yakima River Basin is a voluntary, non-obligatory, cooperative agreement among implementing agencies and organizations whose role it is to facilitate the health of the watershed.

1.1 GOALS AND OBJECTIVES

The overall goal of watershed planning in the Yakima Basin watershed is "to achieve a wise, well balanced, and full beneficial use of Yakima River Basin water resources among all interests, with full consideration of present and future water resource needs through ongoing public involvement." (YBWRA, 2006)

Specific goals were identified and approved to guide development of the Watershed Management Plan (WMP, 2003, p. 1-6). Following each goal is a description of related problems or issues detailed in the Plan, proposed actions, and a brief summary of progress made since the Plan was approved in 2003.

1. "Improve the reliability of surface water supply for irrigation use."

The Watershed Plan identifies two key issues with respect to surface water: reliability of irrigation water supplies and stream flows.

- Problem: Reliability of supply for existing irrigated lands is compromised during drought years for irrigation districts with proratable water supplies. Drought year allocations have been as low as 37% of pro-ratable water supply. Instream flows have been substantially changed due to storage, irrigation diversions and delivery.
- Proposed solution: Major new storage is recommended by the Plan in order to provide a minimum proposed target supply of 70% for irrigation under drought conditions. This increase is intended for lands currently under irrigation and is not for the irrigation of additional lands. Additional storage is also recommended for improving instream flows.

Current progress since Plan approval (2003): The USBR is conducting a Yakima Basin Water Storage Study including providing for major storage. Ecology is providing additional assessment of environmental alternatives to supplement the USBR study. A joint feasibility study and EIS are scheduled for completion by the end of 2008. Conservation efforts by all concerned entities have shown progress in using the available water wisely.

2. "Provide for growth in municipal, rural domestic and industrial demand."

Population estimates provided in the Watershed Management Plan (WMP, 2003, p. 2-1) predict a population growth of over 60% in the Yakima basin between 2000 and 2050. Adequate water supply is critical to provide for this population growth and for economic development.

- Problem: Surface waters have been closed to new appropriations for many years. An informal moratorium is currently in place on additional groundwater withdrawals. A potential conflict exists between junior groundwater rights that may be in hydraulic continuity with senior surface water rights.
- Proposed solution: Provide for municipal/industrial growth and economic development by providing additional water through major storage and the conjunctive use and management of water. Conjunctive management treats groundwater and surface water as a single resource. The USGS lead groundwater study will provide further understanding of groundwater and a basis for new management recommendations.

Current progress since Plan approval (2003): State law requires water users to develop water-conservation plans to ensure judicious water management and submit them to watershed planning groups to confirm that their plan is not in conflict with the watershed plan. In addition, cities and irrigation districts plan cooperative uses and schedules to maximize efficiency.

- 3. "Improve instream flows for all uses with emphasis on improving fish habitat."
 - Problem: River and stream flows have been substantially reduced due to out-of-stream uses, and altered from the natural hydrograph through construction and management of storage reservoirs and irrigation delivery.
 - Proposed solution: Conservation and water exchange as well as additional water through new storage is recommended to provide improved instream flows through greater supply and more flexible project operations management.

Current progress since Plan approval (2003): The USBR and others have been active in conservation programs and the purchase of land and water rights in order to improve instream flows in the mainstem and tributaries. The Yakima River Basin Water Enhancement Project (YRBWEP) provides funding for irrigation district conservation plans and for implementing conservation projects while requiring that twothirds of water savings be dedicated to instream flows.

4. "Maintain properly functioning habitat and enhance degraded habitat."

Blockage, loss and degradation of habitat have been significant factors in reduction and extinction of fish populations. Habitat has been degraded due to diversionary uses, flow alterations, lack of screening, past environmentally damaging practices, and barriers to habitat access.

- Problem: As a result of reduced/degraded habitat, historic fish populations have declined substantially and some species have gone extinct from the basin. Steelhead and bull trout are listed as threatened under the Endangered Species Act (ESA).
- Proposed solution: The Plan developed a fish habitat enhancement strategy providing a prioritized approach to habitat improvement/restoration and a list of proposed actions for implementation.

Current progress since Plan approval (2003): Subbasin and Salmon Recovery Plans have been completed for the basin. A Lead Entity for planning and prioritization of projects for SRFB implementation funding has been created. Significant funding has been directed to habitat projects. Major efforts have been undertaken to improve access to habitat through the removal of barriers to access. Additionally, significant attention has been given by many to floodplain restoration, connectivity of side channels, gravels and related surface or subsurface flows for improved habitat function.

- 5. "Protect, improve and sustain groundwater quantity and pumping levels of aquifers for the benefit of current and future use."
 - Problem: Groundwater is recognized as a key resource for domestic and some agricultural purposes but is limited in quantity. Groundwater and surface waters may be interconnected in some areas leading to management challenges. Watershed usage of groundwater is increasing exponentially.
 - Proposed solution: The Plan recommends Alternative II-2, "limiting new groundwater development to selected uses," and details management strategies to prevent long term declines in groundwater levels (WMP, 2003, p. 4-7-4-9). Data collection and management, water use efficiency, enforcement of unauthorized uses, voluntary water transfers, and avoidance of pumping that would deplete the aquifers over the long term are some of the strategies proposed. The major storage recommendation provides additional water for future needs.

Current progress since Plan approval (2003): The USGS groundwater study currently underway will provide needed information about groundwater to improve future management. The Water Transfer Working Group is actively reviewing proposed transfers of water rights in order to protect water rights and facilitate this process.

- 6. "Protect surface and groundwater from contamination."
 - Problem: Increased water use and disposal from population growth and agriculture have negatively impacted water quality in portions of

the basin. Implementing agencies need appropriate levels of funding, staffing and other resources to protect and restore water quality.

 Proposed solution: A broad prioritized environmental enhancement program consisting of many interrelated actions by many implementation partners is proposed. Managing irrigation, cropland, and livestock impacts; improving coordination between agencies and understanding of cause-effect relationships; and expanding monitoring activities will contribute to the solution. This plan offers a tool to coordinate efforts on a watershed scale to help direct available resources.

Current progress since Plan approval (2003): Significant improvements have been made to irrigation return flows in reducing sediment, DDT, nutrients and coliform bacteria. Ecology reported that sampling in 2003 showed reduced sediment loads in drains and river, but noted that improvement is needed to meet other targets (WDOE, May, 2006). While irrigation districts continue to work toward these goals, this success has resulted in excessive aquatic plant growth in the lower river due to improved light penetration and available nutrients. These issues require continued study.

- 7. "Maintain economic prosperity by providing an adequate water supply for all uses."
 - Problem: Investment in water infrastructure in the early 1900s provided the basis for economic growth and an agriculturally-based economy. Attracting industry and businesses will diversify and strengthen the economic base but this requires an adequate water supply. The Yakima Basin as a whole is over appropriated, and the adjudication of existing surface water rights is almost completed after several decades. The ESA and courts have added demand on system operations to increase instream flows. Poor quality water requires treatment and increases the cost of providing adequate water supply. The CWA directs the improvement of water quality for future beneficial uses.
 - Proposed solution: An additional supply of stored water is proposed as a basis for meeting the needs for economic growth (adequate municipal and industrial supply and a reliable supply of water for existing irrigation) and environmental restoration. Such a supply would provide increased opportunities for river system management and habitat improvement.

Current progress since Plan approval (2003): Conservation is being emphasized in irrigation and other uses. Improved delivery systems, creative irrigation scheduling and planning, the transfer of existing water rights between location and uses, and utilizing best management practices allow more efficient management of currently available water and, thus, additional water for instream flows. The ongoing USBR study will review and propose alternatives to provide additional storage to allow a stable 70% water supply for pro-ratable districts. An enhanced water supply will also provide for the issuance or transfer of future water rights for domestic and industrial water supply for economic growth. The USGS-led groundwater study will provide vital information for enhanced management of groundwater resources.

This Detailed Implementation Plan provides the basis for scheduling and executing specific actions proposed to achieve these objectives.

1.2 HISTORICAL REVIEW

In March of 1994, the Yakima River Watershed Council formed to develop and implement a plan to provide consistent, adequate water, both instream and diversionary, for the diverse economic, cultural, and environmental demands in the Yakima River basin. The Council believed that mitigating impacts on the local economy and land use and providing a healthy environment for all required an on-going dedication to finding a community-based, common solution. The plan focused on five complimentary water resources management areas as potential solutions: 1) water conservation, 2) water transfers and marketing, 3) water storage, 4) water quality, and 5) habitat restoration.

The Watershed Planning Act (Chapter 90.82 RCW), passed by the Legislature in 1998, provided a new legal framework for local citizens, interest groups, and government organizations to identify and focus on water-related issues in each of the state's WRIAs. In 1998, Yakima County, Benton County, Kittitas County, the cities of Yakima and Ellensburg, and Roza, Sunnyside Valley and Yakima-Tieton Irrigation Districts, as initiating governments, formed the Tri-County Water Resources Agency (TCWRA). Their purpose was to begin watershed planning in order to address water resource needs in the Yakima Basin. The Yakama Nation was invited to participate. The process involved three phases: (1) organization, (2) assessment, and (3) plan development. TCWRA served as Lead Agency for Phases 1, 2, and 3. In Phase 1, TCWRA organized and convened the Yakima River Basin Planning Unit comprised of representatives from varied local and state agencies as well as interested organizations and individuals. They met monthly to assess water resources, define needs and concerns, and propose actions. In the fall of 1999, the Yakama Nation elected to end their participation in the planning process. The Planning Unit sub-committees for surface water quantity, groundwater, water quality, and habitat completed a Phase 2 assessment of the watershed in January 2001. Phase 3 planning began immediately and the Watershed Management Plan was approved by the Planning Unit in December of 2002. At the conclusion of Phase 3, the Planning Unit consisted of a diverse membership from all three WRIAs.

The Watershed Management Plan was finalized January 2003, providing a road map for coordinated water management in the Yakima Basin. It recommended a host of actions in the areas of water resources, water quality, and habitat. It also recommended future organizational structures consisting of a Coordinating Agency (CA) and the Water Resources Advisory Committee (WRAC) to replace the Lead Agency and the Planning Unit.

In the spring of 2003, the Legislature passed ESHB 1336, amending the Watershed Planning Act. This bill established a fourth phase of the watershed planning process and authorized new state funding for watershed management plan implementation. Approval of the Watershed Management Plan by county legislative authorities proved difficult after passage of the above amendments. Kittitas County chose to "opt-out" and end their association with the TCWRA. On November 2, 2005, the plan received approval by Yakima, Benton and Klickitat County authorities.

In September of 2006, a new Intergovernmental Agreement (IGA) (Appendix E) between Benton County, Klickitat County, and Yakima County, the City of Yakima, and Roza Irrigation District, Sunnyside Valley Irrigation District, and Yakima-Tieton Irrigation District was approved in accordance with Chapter 39.34 RCW. This agreement was entered into for the purposes of:

- 1. administering and coordinating Plan implementation and possible future amendments of the Yakima River Basin Watershed Management Plan,
- 2. defining the duties and responsibilities of the CA, and
- 3. providing direction to staff.

Under the IGA, the Yakima Basin Water Resources Agency (YBWRA) was formed and designated CA for Phase 4 implementation as specified in the Watershed Plan. As CA, YBWRA's mission is to provide and foster local leadership, cooperation and coordination in support of planning and implementation in water resources management. The agreement further defined the scope and process whereby the WRAC, formally the "Planning Unit," would develop and recommend the DIP for approval by the county authorities. The WRAC provides representative local input to Plan implementation and future Plan amendments including the DIP.

Klickitat County will assume a less active role in developing the DIP. Its involvement will be limited to monitoring the plan's possible effect on Klickitat County interests, and to Implementation Plan approval.

1.3 FISH AND HABITAT

From its headwaters in the Cascades, the Yakima travels through forested mountains, chaparral, shrub steppe and irrigated agricultural lands. The watershed supports diverse aquatic habitats because of the range of elevation,

climatic and geologic conditions (Entrix, 2004, p.2). It has been estimated that historical salmon and steelhead runs were in the hundreds of thousands of fish annually, in addition to resident rainbow, cutthroat and bull trout. The history of settlement of the western United States reveals a pattern incompatible with sustaining high quality aquatic habitat. Irrigation canals, railroad construction, hydraulic mining, logging in riparian zones, log drives, highway construction within riparian corridors, tillage without effective erosion controls, use of persistent pesticides and other environmentally harsh activities combined to compromise habitat. Altered river flows, construction of unladdered dams, over-appropriation of water for diversion, changes in land use, and pollution have severely reduced the historic populations. (EES, 2001, p. 6.5-6.12). Currently, bull trout and steelhead are listed as threatened. Coho salmon populations exist in the Columbia because of hatchery reintroduction. In the late 20th century, legislation began to be passed to prevent further environmental damage and provide for restoration of fish habitats. Recovery efforts currently are being undertaken on several fronts and by many agencies and organizations.

Insufficient water or excessive flows beyond the natural hydrograph in rivers and streams impair healthy fish populations. A variety of legal requirements exist related to instream flows in the Yakima River Basin, generally based on litigation and federal legislation. Target flows for the mainstem Yakima below Parker (Wapato Reach) during the irrigation season have been established by Congress under the federal YRBWEP program. State and federal courts have issued orders concerning treaty-reserved rights for fish, instream flows to support treaty fishing rights, and USBR's operation of the Yakima Project to reduce impacts on fish. The courts mandated that the water right for fish is the minimum instream flow necessary to maintain fish life, it is senior to other water rights in the basin, and the quantity is to be determined annually, based upon existing conditions. In addition, operational target flows for months without irrigation water diversion are established annually by USBR and SOAC based on balancing the biological needs of fish and the desire to maximize storage.

Title XII of PL 103-434 authorized Phase II of the YRBWEP which focuses on conservation and improving instream flows. The law lists several purposes; the following specifically address fish and fish habitat: 1) to protect, mitigate, and enhance fish and wildlife, and 2) to realize at least 110,000 af of water savings per year for fish and wildlife by 2002. Since the early 1990s, prior to passage of this legislation modifying project operations and defining target flows, USBR operated the Yakima Project to provide increased flows. (WMP 2-15)

During the assessment phase directed by the Watershed Management Act (RCW 90.82), habitat conditions in six reaches in the Naches – Yakima mainstem river system were evaluated. Fish habitat needs differ according to several criteria including species, resident or migratory status, and life cycle stages. As might be expected, the assessment revealed a mix of high quality, degraded but functional, and highly degraded habitat. Many factors currently exist which restrict habitat

quality depending on geographic location and land use adjacent to the water. The major categories of habitat factors affecting the survival of salmonids include:

low flow and dehydration	barriers, screens & diversions
false attraction flows	spawning gravels/recruitment
flow peaks/fluctuations	off-channel habitat
channel width, depth, and gradient	pools & riffles
channel stability	riparian shade/streambank cover
channel complexity	large woody debris
channelization/alterations/levees	water quality-temperature & sediment

"Yakima River mainstem conditions were found to be more suitable in the upper three reaches and generally deteriorate in a downstream direction." (WMP p. 2-30)

1.3.1 Fish Habitat Protection and Enhancement

A recommended management framework is provided in Chapter 7 of the Watershed Management Plan to help direct fish habitat protection and enhancement. The management framework includes an overarching goal, guiding principles and objectives, and proposed actions to help focus more detailed planning and implementation of specific habitat enhancement projects or programs.

Overarching Goal: Protect and enhance aquatic habitats in the Yakima River and tributaries to achieve a healthy system for anadromous salmonids and other native fish.

The Yakima Basin Watershed Plan proposed the following guiding principles:

- 1. Protect existing high-quality habitats and connecting migration corridors
- 2. Protect and enhance habitats that are damaged but still functional
- 3. Enhance downstream reaches and connect associated floodplains in tributary and mainstem reaches to benefit fish production
- 4. Prioritize enhancement of damaged aquatic habitats that are still functional and protect existing habitat conditions from further degradation

Additionally, the Plan recommended three programmatic objectives:

- 1. Improve watershed wide information base
- 2. Focus on habitat condition to measure the effectiveness of habitat enhancement actions, and
- 3. Ensure water quality and habitat standards reflect natural regional conditions.

1.3.2 Coordination with Other Planning Efforts

While providing a general roadmap of water resources and needs in the watershed, HB 2514 (codified as Chapter 90.82 RCW in 1998, the Watershed Planning Act) was not meant to address all watershed issues. At the same time, the legislature passed HB 2496, the Salmon Recovery Planning Act (Chapter 77.85 RCW), which established a Lead Entity process for funding habitat projects. The Lead Entity infrastructure involves local stakeholders representing diverse interests and provides a forum in which they work together toward common solutions. It helps ensure balance between science and community interests while prioritizing projects for funding (WDFW, 2007). The Lead Entity for Salmon recovery in the Yakima Basin is Yakima Basin Fish and Wildlife Recovery Board (YBFWRB).

The legislature required that habitat planning be integrated with strategies developed under other processes to respond to potential and actual listing of salmon and other fish species as being threatened or endangered under the federal Endangered Species Act. The legislature further stated that where habitat restoration activities are being developed under ESHB 2496, such activities shall be relied on as the primary non-regulatory habitat component for fish habitat protection and restoration under the Watershed Management Act (WMA).

The grant provided by Ecology specifically stipulates that the Detailed Implementation Plan address coordination with the local Yakima Basin Fish and Wildlife Recovery Board. This is being achieved through participation by YBFWRB staff on the WRAC and in ongoing review of the DIP as well as by YBWRA staff participation in YBFWRB planning and implementation.

In the Yakima basin where watershed planning preceded the establishment of salmon recovery planning, the Watershed Plan was available as an appendix and reference. Furthermore, with the recommendation for major storage, it presented a framework for a future basin with additional water that would enhance salmon recovery by increasing the water available to be managed for fish habitat purposes.

USBR currently coordinates a multi-agency work group addressing future fish passage at Cle Elum and Bumping dams. Fisheries co-managers, Yakama Nation and WDFW, as part of this work group, are developing a salmon restoration plan for these facilities. This plan is designed to increase productivity of salmon and other species in and above these storage reservoirs, which will improve the productivity of the Yakima Basin as a whole.

The Washington Water Trust (WWT) is another organization committed to instream flow restoration. WWT is a private, nonprofit organization established in 1998 to restore instream flows in Washington's rivers and streams, including the

Yakima Basin. WWT works to benefit water quantity and quality, fisheries and recreation in Washington's rivers and streams by acquiring existing water rights from willing sellers through purchase, lease or gift.

Washington Water Trust works cooperatively with farmers, ranchers, irrigation districts, tribes, public agencies, land trusts and other nongovernmental organizations to accomplish its stream restoration goals. The water trust works on small streams and tributaries where returning a small amount of water to the stream can have a significant benefit. (WWT, 2007)

1.4 SETTING (WMP, 2003, p. 2-1):

1.4.1 Planning Area:

The planning area for the original watershed planning process was the entire Yakima River excluding the Yakama Nation Reservation (Exhibit 1-1). The Reservation occupies approximately 1,394 square miles within the Basin (based on GIS analysis of mapping data provided by Ecology.) At the request of the Yakama Nation, the Planning Unit refrained from planning with respect to water resource use or management on the Reservation. This DIP abides by this request. With Kittitas County's departure and the addition of Klickitat County, the central and southern portion of the Yakima Basin (WRIAs 37, 38, & jurisdictional areas of Yakima County in WRIA 39) comprise the current DIP planning area.

1.4.2 Physical Setting

The Basin occupies approximately 6,150 square miles. Its headwaters are situated along the crest of the Cascade Range. The mainstem Yakima River is joined by a number of tributaries and flows generally southeast until it joins the Columbia River 221 miles downstream (Entrix, Inc, 2004).

Throughout the Basin, precipitation is seasonal with approximately 60 to 80 percent of annual precipitation occurring from October to March (Rinella, J. F., McKenzie, S. W. & Fuhrer, G. J., 1992). The Cascades intercept moist air moving inland from the Pacific Ocean capturing this moisture as precipitation. Mean annual precipitation ranges from less than 10 inches near the mouth of the Yakima River to 140 inches along the Cascade crest. Much of this precipitation falls as snow during the winter months and is stored in the Cascade Range snowpack. As a result, runoff in the Yakima Basin exhibits a pronounced spike from April to June, with lower levels of runoff occurring during the remaining months of the year. Much of the runoff from the melting snowpack is retained in reservoir systems. However, the most damaging floods occur between November and February from lower elevation rain-on-snow events. Climatic conditions vary with elevation, with generally warmer and drier conditions occurring at lower elevations.

1.4.3 Land Use and Ownership:

Existing land cover in the Yakima Basin is approximately 50% non-forested or rangeland; 29% forested; 21% agricultural, and less than 1% urban developed land. Agricultural activity provides the basis of the Yakima Basin economy, including crop production, livestock and dairy industries, as well as related food processing industries. The division of land ownership in WRIA 37 is 11.9% federal, 4.2% state, <1% local, 47.7% tribal, and 36.1% private. In WRIA 38, land ownership is divided as follows: 72.9% federal, 8.4% state, 0% local, <1% tribal and 18.7% private (WDOE, July, 2006).

1.4.4 Population:

The population of the Yakima River Basin was approximately 316,800 in year 2000. Based on 1990 census data, the population is evenly divided between urban residents (53%) and rural residents (47%). The population is projected to increase to over 418,000 by the year 2020 and 531,000 by year 2050 (EES, 2001).

2.0 DEVELOPMENT OF THE DIP

Phase 4 began on September 30, 2006, for WRIAs 37 and 38 in Yakima and Benton counties and the jurisdictional areas of Yakima County in WRIA 39. State funding is available at \$125,000/year for the first three years and at \$62,000/year for the final two years. A 10% local match is required. Local governments and irrigation districts also contribute funds for Phase 4. A DIP is a required element of the Phase 4 process (per RCW 90.82.043) and must be approved within one year of receiving funding in order to receive grants for the second through fifth years of implementation funding. The YBWRA has been charged with overseeing and administering the development of the DIP of the Yakima Basin's Watershed Management Plan. Specific agency roles and duties are listed in section 3.6.1.

2.1 PURPOSE

ESHB 1336, which amended the Watershed Management Act and added Phase 4, requires the Department of Ecology to "rely on local Watershed Management Plans as the primary consideration in determining public interest" and to use it as the framework for future water decisions. The DIP quantifies and operationalizes those local interests. The DIP provides additional detail on actions proposed for implementation in the 2003 Watershed Management Plan. It identifies oversight responsibilities and strategies for carrying out the proposed actions. Supporting activities of the CA and WRAC are detailed.

2.1.1 Meeting Legal Requirements

RCW 90.82.043 provides specific requirements related to Phase 4 Implementation. These requirements are listed below. Each requirement is followed by reference numbers that identify the section in the DIP in which the requirement is addressed.

- 1. Within one year of accepting Phase 4 funding, the planning unit must complete a detailed implementation plan. Submittal of a detailed implementation plan is a condition of receiving grants for the second and all subsequent years of the Phase 4 grant.
 - This document fulfills the requirement for an implementation plan.
- 2. Each implementation plan must contain strategies to provide sufficient water for: (a) production agriculture; (b) commercial, industrial, and residential use; and (c) instream flows.
 - See Water Quantity, Water Quality and Habitat Coordinated Actions Tables. (sections 4.2.1 - 4.2.6) and individual implementing partners' spreadsheets (Appendix B)
 - Table 8-4, (Appendix I) based on Tables 8-1 and 8-2 in the Plan, details specific proposed actions to address each area. A new numbering system was developed in Table 8-4 to provide ease of organizing and tracking actions and projects contained in the DIP.
- 3. Each implementation plan must contain timelines to achieve these strategies and interim milestones to measure progress.
 - Included in the Coordinated Actions Tables (sections 4.2.1 4.2.6) and in individual implementing partners' action spreadsheets (Appendix B) as "immediate", "mid-term" and "long-term" actions.
- 4. The implementation plan must clearly define:
 - A. coordination and oversight responsibilities
 - See sections 3.2 and 3.6
 - B. any needed interlocal agreements, rules, or ordinances; any needed state or local administrative approvals; and any permits that must be secured.
 - See section 2.5

- C. specific funding mechanisms
 - See section 2.6
- 5. In developing the implementation plan, the Planning Unit (in this case, the WRAC) must consult with other entities planning in the watershed management area and identify and seek to eliminate any activities or policies that are duplicative or inconsistent.
 - See section 3.5

RCW 90.82.048 gives additional direction:

- 1. The timelines and interim milestones in a detailed implementation plan must address the planned future use of existing water rights for municipal water supply purposes, as defined in RCW 90.03.015, that are inchoate, including how these rights will be used to meet the projected future needs identified in the watershed plan, and how the use of these rights will be addressed when implementing instream flow strategies identified in the watershed plan.
 - See section 3.4 and Appendix J
- 2. The watershed Planning Unit or other authorized lead agency shall ensure that holders of water rights for municipal water supply purposes not currently in use are asked to participate in defining the timelines and interim milestones to be included in the detailed implementation plan.
 - See section 2.4 and Appendix H-2

2.2 BEGINNING THE PROCESS

The first step in developing the DIP was to determine which of the 90+ proposed actions in the Plan could reasonably be accomplished. Since entities participate on a voluntary basis, the Steering Committee of the WRAC directed staff to contact agencies and entities that participated in the development of the Watershed Management Plan. The purpose of this contact was to learn which actions they were currently undertaking and which were in the planning stages. Time-lines and funding sources for these actions were determined. This information formed the basis of the DIP. Other water users in the basin also provided information about their planned actions and strategies. Ecology serves as the lead for state agencies and coordinated the detailed descriptions of the state agency actions and strategies. These actions fall within their existing roles and responsibilities as authorized by statute.

2.3 WRAC

The WRAC was convened from former Planning Unit members, group A water users, and other interested groups and individuals. The WRAC guides and facilitates the development and approval of the DIP. Following DIP approval, the WRAC monitors implementation of the actions described. Roles and responsibilities for the WRAC as defined in the IGA are listed in section 3.6.2.

2.4 PUBLIC OUTREACH

Public outreach and involvement are important components of a representative, balanced plan. Input from the community was encouraged through several means:

- Regular meetings of the YBWRA and WRAC with opportunities for public comment
- Notification of meetings via local media outlets.
- Notice of meetings posted on bulletin boards and on the YBWRA website
- Letter sent to Group A users to invite participation in the planning process (Appendix H-1)
- Letter sent to former Planning Unit members to describe process and invite their participation (Appendix F-3)
- Public comment period for the draft DIP
- Documentation of public comments
- Public hearings in each county
- Joint Boards of County Commissioners approval meeting

2.5 LEGAL REQUIREMENTS (AGREEMENTS, PERMITS, ETC)

Developing a DIP may require interlocal agreements, rules, or ordinances, etc.

- A. The IGA, approved September 2006, provided direction for:
 1) administering and coordinating plan implementation and possible future amendments of the Yakima River Basin Watershed Management Plan, (2) establishing and defining the duties and responsibilities of the CA and the WRAC, and (3) providing direction to staff.
- B. Memorandum of Understanding: an agreement between parties to define expectations and coordination without dependence of one party on the actions of the other with no exchange of funds or resources. None were needed for the DIP.
- C. Memorandum of Agreement: defines general areas of conditional agreement between parties whose actions are mutually dependent.

- As a voluntary, non-obligatory plan, an agreement is not deemed necessary at this time.
- D. In February 2006, Ecology updated its permit handbook for commonly required environmental permits for Washington State. A summary of permits related to watershed implementation activities developed for the WRIA 32 DIP is provided in Appendix D.
- E. Endangered Species Act: if a project is authorized, funded or undertaken by a Federal agency and that agency determines the project may impact a species or critical habitat, consultation with NOAA Fisheries (or NMFS) and the US Fish & Wildlife Service is required.

Project implementers are responsible for ensuring compliance with SEPA permit requirements of local, state, and federal agencies. Currently, permitting and ESA consultation can take several months to complete which may impact project costs and timelines.

2.6 FUNDING MECHANISMS

- A. Specific funding sources where defined, secured, or proposed are listed for some of the actions in the tables.
- B. Foster Creek Conservation District, WRIA 44/50, developed a general spreadsheet of potential funding sources. This spreadsheet was compiled using the Phase 4 Washington Watershed Plan Implementation Committee Report to the Legislature and the Boise State University Environmental Finance Center's internet-based Directory of Watershed Resources. It provides an overview of possible funding sources that may be considered for those actions that do not have a secured funding source. The WRAC appreciates the generosity of FCCD in allowing use of this spreadsheet. The spreadsheet is included in Appendix C.
- C. Boise State University Environmental Finance Center provides a directory of watershed funding resources on their website. The directory includes an extensive inventory of Federal/interstate, state, and private sources. The directory can be found at <u>http://sspa.boisestate.edu/efc</u>.
- D. Federal funding is available for monitoring, pollution prevention and control, watershed and drinking water source protection, wetlands and wildlife. These sources can be found in EPA's Catalog of Federal Funding Sources for Watershed Protection (EPA, 2003) <u>http://cfpub.epa.gov/fedfund/index/cfm</u>
- E. The Washington Department of Fish and Wildlife (WDFW) administers the Fisheries Restoration and Irrigation Mitigation Act (FRIMA) grant program

These grant funds are appropriated from Congress and passed through the US Fish and Wildlife Service to the four Northwest States. <u>http://wdfw.wa.gov/recovery/frima</u> <u>http://wdfw.wa.gov/hatitat.htm</u>

- F. Wetland Reserve Program (WRP) provides cost-share assistance or possible easements to enhance or maintain existing wetland acres. It is funded via the farm bill and administered by NRCS.
- G. Wildlife Habitat Incentive Program (WHIP) provides financial incentive for wildlife projects. It is funded via the farm bill and administered by NRCS.
- 2.7 INTRODUCTION TO TABLE 8-4 (see Appendix I-1)

Chapter 8 of the Watershed Management Plan describes the Planning Unit's recommended strategies and actions for putting into practice the priorities of the Plan. It includes Table 8-1 (Organizations With Primary Implementation Responsibilities, WMP, 2003, p. 8-7) and Table 8-2 (Yakima Watershed Plan Implementation Actions, WMP, 2003, p. 8-25).

Table 8-4 was developed for the DIP from Tables 8-1 and 8-2. It combines information from the Plan and adds a numbering system that facilitates tracking of proposed actions on individual implementation partners' spreadsheets and on the Coordinated Actions Tables.

To make Table 8-4 consistent throughout, actions listed on Table 8-2 from Chapters 3 and 4 were organized under broad, general headings that were already included in the table. Care was taken to retain the intent and integrity of the Plan. Only items already included in the approved Plan were incorporated. Documentation of the updates was reviewed by the WRAC Steering Committee.

3.0 Framework for Implementation

3.1 VOLUNTARY PARTICIPATION

The framework for Plan implementation is rooted in the key concept from the Plan itself. That is, the Plan is completely voluntary. It establishes a roadmap for the watershed partners for purposes of planned implementation through communication, cooperation, and coordination. No "obligations" are included in the approved Plan. While state law allows for the approval of obligations in 90.82 RCW plans, there are none in the Yakima Basin Plan. Furthermore, actions by participating implementation partners will not become required actions upon approval of the DIP. The WRAC recognizes that the level of involvement and participation will vary among implementing partners. Actions will be undertaken

by partners if and when available resources can be re-directed within the individual organizations or obtained from outside grants or other resources.

The WRAC accepts that any strategies, actions, obligations or potential obligations assigned to local, state or federal agencies, and tribes, if they participate in plan implementation in the future, are directly associated with securing necessary funding, resources, and legislative authorizations where required, and are subject to applicable rules and regulations, the Administrative Procedures Act and SEPA and NEPA requirements and applicable permitting requirements. (WMP p. ES-10) A SEPA determination of non-significance was made during the original planning process.

The Watershed Management Plan for the Yakima Basin was developed under provisions of the Washington State Watershed Planning Act, 90.82 RCW. The proponents of the Plan were the Tri-County Water Resource Agency and Planning Unit. The location of the action was on lands in WRIAs 37, 38 and 39, which together make up the watershed of the Yakima River Basin. The lands and waters of the Yakama Nation are not a part of the Plan. Benton, Klickitat and Yakima Counties approved the Plan. Subsequently, Benton, Klickitat and Yakima Counties, the City of Yakima, and the Roza, Sunnyside and Yakima-Tieton Irrigation Districts signed the intergovernmental agreement forming the Yakima Basin Water Resources Agency. These entities now constitute the Coordinating Agency for watershed planning in support of the Water Resources Advisory Committee, former Planning Unit.

The DIP that has been developed for WRIAs 37 and 38 and for the jurisdictional areas of Yakima County in WRIA 39 provides additional detail and a basis for coordination of specific actions proposed in the Plan and now underway or to be undertaken by individual or coordinating partners.

Prior to the Counties' approval of the Watershed Management Plan, a Determination of Non-Significance (DNS) for a Non-Project Action was issued on December 16, 2002 by the SEPA Lead Agency. Subsequently, a programmatic EIS for watershed planning was issued by Ecology (WDOE, March 2003). The DIP is an extension of the Watershed Plan. Therefore, it is covered by the original DNS and further environmental review is not required for the DIP. However, all specific projects or proposed projects are <u>not exempt</u> from individual SEPA review prior to implementation by their respective project proponent.

It is anticipated that this plan will help to better integrate and focus existing resources and lead to the dedication of additional state and federal resources within the Basin for recommended actions.

For various reasons, not all entities in the watershed were participants in the planning process or in developing the DIP. The aim from the beginning of the planning process has been that those who wish to participate are encouraged to

do so. Others that are involved in related efforts, such as YBFWRB planning or Yakima Basin Storage Alliance (YBSA) promoting Black Rock storage reservoir are on parallel pathways to achieve a better future for the watershed. The Plan recommends that such parallel efforts work together in whatever future forums offer opportunities to do so.

3.2 COORDINATION OF ROLES AND RESPONSIBILITIES

The need for adequate, high quality water in the Yakima River Basin spans jurisdictional boundaries and the multiple purposes for which it is used. Given the uncertainty of this supply, careful planning for competing needs is critical. Just as no single solution exists, no agency or entity, working alone, can hope to meet the need. Therefore, a balance must be struck between increasing storage, conscientious conservation efforts, and best management practices. Working cooperatively, sharing resources and sharing responsibilities will allow the greatest benefit to all water users, both instream and diversionary, within the Yakima basin.

Most importantly, successful implementation of the Watershed Management Plan is dependent on the commitment and support of water users and participants in the basin. This will be facilitated by planned actions, measurable outcomes, the creative and flexible use of a variety of water management strategies, and methods to monitor outcomes, as outlined in Tables 4.2.1 - 4.2.6.

3.3 STRATEGY FOR DIP IMPLEMENTATION: "LEAD" AND "OTHER" RESPONSIBILITIES

The Watershed Management Plan proposed generic actions that fall within the responsibilities established by state law for individual entities and designated "Lead" and "Other," supporting, responsibilities. The WRAC has relied on agencies' internal, long-range plans and/or direct communications as a basis for indicating specific actions on implementing partners individual spreadsheets (Appendix B). In this way, staff will have been designated and budgets adjusted or outside funding secured or sought. It is recognized actions cannot be implemented without adequate funding.

"Lead" was designated for two categories of responsibility:

- Lead coordinator for multi- agency/entity activities
- Project lead as coordinator for project implementation

"Other" is designated for contributing partners with varying levels of responsibility.

When integrating individual implementation partner spreadsheets into the Coordinated Actions Tables (DIP sections 4.2.1-4.2.6) the designations of "Lead" and "Other" were omitted. The primary purpose of these tables is to show which partners are working on specific proposed Plan elements and which partners are

working on the same or associated elements. The Coordinated Tables are the central focus of the DIP and are intended to help promote the needed discussion, coordination, and cooperation required to avoid duplication and lead to the successful implementation of the Watershed Management Plan.

The following is a brief summary of lead and other responsibilities from the list of Table 8-1 (WMP, p. 8-7). The summary is intended to reflect the substance of the Watershed Management Plan. A complete description of proposed responsibilities can be found in the text of the Plan.

- County Responsibilities: Counties will assume leadership roles to review plans, ordinances, programs, and standards within their jurisdictional areas to ensure consistency in local government programs in order to protect habitat conditions consistent with habitat strategy, and to manage stormwater in municipal and industrial areas consistent with surface water quality strategy. Counties will also co-lead with cities and other entities to encourage and facilitate the establishment of new or expanded public water systems and to consolidate supply for new development in order to discourage the proliferation of new individual household wells within urban growth nodes and areas of rural population concentration. In addition, they will cooperate with other entities to improve the long-term monitoring and managing of aquifer water levels.
- <u>City Responsibilities</u>: Cities will generally lead in managing water supply, wastewater, stormwater and wellhead protection areas and in defining specific groundwater management actions within their jurisdictions. They will also update land use regulations to protect habitat conditions, and review reuse opportunities during utility plan updates.
- <u>Irrigation District Responsibilities</u>: Irrigation districts will assume a leadership role in identifying projects to enhance water quality and habitat conditions and seeking funding to implement them. Together with the US Bureau of Reclamation, they will focus on efficiency projects. In addition, irrigation districts will coordinate with other agencies in support of additional storage and will assist individual landowners to improve irrigation and cropland management.
- <u>Counties, Cities, and Irrigation Districts an others</u> will work together to provide input to the application of the USGS study and in the development of any programs pertaining to the use and management of groundwater and will seek funding, help develop public education programs in support of water supply and quality actions, and participate in interagency coordination.
- <u>Conservation District Responsibilities</u>: Conservation districts will take the lead in working with landowners to implement best management practices

(BMP) and projects that improve irrigation and cropland management and reduce livestock impacts consistent with habitat and water quality strategies. Also, they will participate in efforts to improve understanding of watershed problems and solutions, expand monitoring activities, provide public education related to water quality issues, and identify projects and seek funding supporting water quality and habitat enhancement.

- <u>State Agency Responsibilities</u>: State agencies include Washington Department of Fish and Wildlife (WDFW), Washington Department of Health (WDOH), Washington Department of Natural Resources (WDNR), and Washington Department of Agriculture (WDOA). For purposes of DIP development, Washington Department of Ecology (WDOE) leads the state agencies. The state agencies will continue to fulfill their mandated roles through current and future programs. In addition, they will participate in interagency coordination forums as appropriate and support and encourage related efforts by cities, counties and other agencies through research, funding, and other avenues.
- <u>Washington State University Responsibilities</u>: WSU will cooperate with other entities to improve understanding of watershed problems and solutions, seek funding for research efforts related to agricultural impacts, improve public awareness of water issues, assess susceptibility of supplies to contamination, implement technical strategies to minimize land use impacts on supplies, and will support and participate in interagency coordination.
- <u>County Agency Responsibilities</u>: County agencies include County Health Districts (CHD) and County Conservancy Boards (CB). The county agencies will continue their state mandated roles through current and future programs.

3.4 MUNICIPAL WATER RIGHTS HOLDERS

3.4.1 Inchoate Water Rights

Inchoate water rights are rights held by a municipal system that are not currently in use. A municipal system is defined by Chapter 90.03.015 RCW as the beneficial use of water for: (1) 15 or more residential service connections or for providing residential use of water for a nonresidential population that is, on average, at least 25 people for at least 60 days/year; (2) for governmental or governmental proprietary purposes by a city, town, public utility district, county, sewer district, or water district; or (3) indirectly for the purposes in (1) or (2) of this subsection through the delivery of treated or raw water to a public water system for such use. Chapter 90.82.048 RCW directs the WRAC (a) to address the future use of existing water rights not currently in use for municipal water supply purposes and (b) to include holders of these rights in determining timelines and milestones of the DIP. This assures that the WRAC considers additional, authorized water demands on municipal systems and how those demands will be met. The WRAC must also take into account how use of those rights will be addressed when implementing instream flow strategies. In the case of the Yakima River, consideration needs to be given as to how use of inchoate groundwater water rights, which are potentially in continuity with surface water, may impact instream flows. See an additional discussion on inchoate water rights in Appendix J.

In October 2006, representatives of Group A (municipal) water systems in WRIAs 37, 38 and the jurisdictional areas of Yakima County in WRIA 39 received a letter describing Phase 4 implementation planning and inviting their participation in the process. Washington State Department of Health maintains a list of water systems on their website which was the source of this information (http://www4.doh.wa.gov/sentryinternet/intro.aspx). Department of Health data indicate 135 Group A water systems in WRIA 37, 57 in WRIA 38, and 20 in 39. A listing of these Group A water systems is included in Appendix H-2. A copy of the letter is included in Appendix H-1. Because the Yakama Nation had discontinued participation in the planning process, 13 Group A water systems continued throughout the development of the DIP.

3.5 COORDINATION TO AVOID DUPLICATION

The best means for avoiding duplication or inconsistency of efforts in implementing the actions of the Plan is coordination facilitated by the DIP and communication between the diverse membership of the WRAC. Implementing partners' spreadsheets are included in the DIP (Appendix B-1 – B-9). Presentations by implementing partners at WRAC meetings provide a forum for learning about the activities and priorities of other agencies and for determining with whom coordination may be needed or encouraged. The coordinated actions tables (Tables 4.2.1-4.2.6) encourage and specify coordination between particular entities. Other possible strategies to avoid duplication and inconsistencies are:

- Advise WRAC members of County planning activities such as critical areas ordinance, future water supply and land use planning.
- Advise WRAC members of TMDL development schedules.
- Continue the water quality monitoring activities and contacts that were presented by South Yakima Conservation District (see Appendix G).
- CA / WRAC may facilitate future water quality monitoring actions
- Following completion of the TMDLs, there may be a need to develop a WRAC Water Quality Work Group with Ecology. Currently, Ecology's TMDL work groups are the primary mechanism for entities to communicate about water quality.

• YBWRA staff and Yakima Basin Fish and Wildlife Recovery Board staff coordinate on habitat/fish related issues and actions.

3.6 OVERSIGHT

Coordination and oversight involve several interrelated activities including seeking funding sources, coordinating actions between implementing entities, tracking progress toward implementation milestones and goals, responding to public needs and concerns, and making adjustments as new information and priorities are established. The IGA guides these processes and defines roles and responsibilities.

3.6.1 YBWRA Oversight Responsibilities (from IGA, Appendix E)

- Provide intergovernmental coordination and communication
- Receive and administer grants and funds; identify and seek additional funding sources
- Support specific plan strategies that have multiple, basin-wide benefits
- Monitor plan implementation and the development of a DIP
- Serve as information clearinghouse for agencies and individuals with implementation responsibilities
- Identify issues/barriers to be addressed
- Provide targeted public outreach and coordinate focused outreach as part of implementing basin-wide strategies
- Prepare annual progress report in coordination with the WRAC
- Coordinate watershed plan amendments as recommended by the WRAC

3.6.2 WRAC Oversight Responsibilities (from IGA, Appendix E)

- Provide ongoing guidance, stakeholder input, planning, implementation, and advisory functions for the Parties (signatories of IGA)
- Prepare/review and finalize a DIP for submittal to the CA and the counties.
- Upon joint approval of a DIP by the Counties, convene twice annually, unless asked by the YBWRA to convene more frequently, to assess the progress of implementation and identify emerging issues related to implementation
- As presented in Chapter 8 of the Plan, the following are additional specific WRAC oversight responsibilities based on the defined responsibilities listed above:
 - Monitor plan implementation
 - Work with the CA to prepare the annual progress report
 - Conduct annual plan review and work with the CA on comprehensive, five-year plan amendments
 - Work with the CA and other implementing agencies to identify, frame, and develop solutions for priority management issues, and
 - Assist the CA in developing outreach, public involvement and funding strategies for selected actions that have basin-wide benefits

3.6.3 Implementation Progress Monitoring

Monitoring progress of implementation goals and actions is essential to determine whether the overall intent of the Plan is being met. Evaluating progress further allows for effective decision-making and the best use of available resources. The YBWRA will monitor the list of projects included in the DIP that have been completed and those that remain to be completed. The latter will include discrete projects and those that have long-term and on-going schedules.

3.6.4 Plan Updates

Both the DIP and the Watershed Management Plan must reflect management priorities within the watershed. These priorities may shift over time with changing population, environmental regulation, land use, and climate conditions. Therefore, the Intergovernmental Agreement specifies the WRAC will convene at least twice annually to assess the progress of implementation and identify issues related to implementation. In addition, Plan review for potential amendments will be conducted annually, and a comprehensive, formal re-opening to identify necessary amendments to the Plan will be conducted every five years by the CA with support from the WRAC.

3.7 MEETING FUTURE NEEDS

Planning for major storage, reliable water supply for irrigation on existing irrigated lands, municipal and industrial growth, and instream flows are all interrelated. Many competing factors influence the amount of available water and the ways it may be used. The Plan projected future needs for municipal and industrial water supply for the next 50 years. Current water supply will be insufficient to meet all the anticipated future needs. Providing water for future municipal and industrial use was a priority that is reflected in the recommendation for major storage (Alternative I-1).

The Plan recognized a potential conflict between future surface water and groundwater development. Depending on the degree of continuity (connection), removing groundwater may reduce surface waters. Consequently, it is recommended that new groundwater development be limited to selected priority uses such as domestic supply (Alternative II-2). However, it is recognized that this alternative alone couldn't meet the objectives of future water supply and economic prosperity. Therefore, this recommendation was made with the understanding that an additional supply of water, through increased storage, would be required to meet future water needs in the Yakima River Basin.

Providing a surface water supply through increased storage could make water available for municipal surface water diversions or for groundwater withdrawals. This water exchange strategy would provide stored water for instream flow management purposes (i.e., fisheries/habitat) to offset municipal groundwater withdrawals.

Without increasing the water supply through significantly larger storage capacity, meeting the diverse water needs of the valley will prove challenging. Equally challenging, however, is determining the best way to provide that additional water and overcoming the obstacles that stand in the way.

4.0 ACTION TABLES

4.1 STATE IMPLEMENTATION PARTNERS

State Agency Participation

The intent of this section is to define the current and future roles for the state agencies that have participated in the development of the Yakima River Basin Watershed Management Plan and subsequently the Detailed Implementation Plan per Chapter 90.82 RCW. The content of this section is a summation of the documents and spreadsheets that each of the participating state agencies has agreed to through a collaborative effort with the WRAC (formerly, Planning Unit) for the Yakima Basin.

Currently, the participating state agencies are:

- Washington Department of Ecology (State Agency Caucus lead agency)
- Washington Department of Fish & Wildlife
- Washington State Department of Health
- Washington State Department of Agriculture
- Washington State Department of Natural Resources

While other state agencies (not listed above) may voluntarily choose to support or participate in the implementation activities of the Yakima Basin Watershed Plan, their involvement is not addressed in this Detailed Implementation Plan.

The state agencies recognize that their continued involvement and participation is purely voluntary and that no formal obligations (per RCW 90.82.130(3) or formal commitments have been established through approval of the Yakima River Basin Watershed Management Plan (January, 2003) or this DIP.

The WRAC membership acknowledges that the level of involvement/participation varies with the participating state agencies. Some of the state agencies will undertake actions that support the priorities contained within the DIP through implementation of existing state programs (e.g., Ecology: TMDLs and permit programs; WDFW: Yakima Basin Salmon Recovery Plan). Wherever possible these agencies are committed to evaluating the Watershed Plan as their projects

or programs proceed and to modifying programs when appropriate to achieve consistency. With other agencies, such as DNR, their ability to commit to formal participation or modify existing programs is currently restricted by resource limitations or by strict compliance with existing programs, plans and policies. However, the WRAC recognizes that where these limitations exist, the goals and objectives of those state programs focus on some of the same goals and objectives that are identified in the Watershed Plan and this DIP. Therefore, the WRAC recognizes the current variability in participation by the state agencies, as well as the importance of tracking the progress of state agencies and seeking increased involvement and participation at a later date as resources allow.

The WRAC also recognizes that participation and the ability to undertake actions by state agencies may be restricted by resources/funding availability. Also, additional data/technical information, authorizations/permits or development of rules and policies may be necessary before state agencies are able to undertake some of the actions contained in the DIP. With this understood, the agencies listed above (with the exception of DNR currently) are committed to coordinating with the WRAC, participating local governments and organizations, and participating federal agencies when developing and implementing state programs, rules and policies that may affect the Yakima Basin. DNR has certain public input/interaction requirements that exist in their own rules, reporting requirements and plans. DNR recognizes that the WRAC may choose to track DNR actions and projects via the existing DNR protocols for public interaction. The State's participation in the development of this DIP and in implementation activities should not be considered a pre-approval of permits, approvals and authorizations required for the implementation of actions and projects included in the DIP.

Spreadsheets of individual state agencies are included in Appendix B-9.

4.2 COORDINATED ACTIONS TABLES

The actions of all participating entities have been integrated under the proposed action on Tables 4.2.1 - 4.2.6.

Action	Ongoing Actions and/or Strategies	B B B B B B B B B B B B B B B B B B B	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6		FISH HABITAT EN	IHA	NCEMENT ACTIONS	AN	D STRATEGIES			
Support habitat enhancement 7.0	Provide watershed information as requested	Coordinate & exchange information w/ YBFWRB						YBFWRB, CA	
	Support existing forums	Coordinate with YBFWRB, USBR and others						СА	
	Support implementation of YBFWR Plan & YBSR Plan							Yakima County	
	Provide technical review & assistance to identify enhancement projects (YBFWRB, MCRFEG, TYAHP, YRABWEP, YKFP, etc.) and where applicable implement & manage habitat restoration and enhancement projects (Habitat Team & Fish Program)	Ongoing						WDFW	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Support habitat enhancement 7.0	Administer and enforce Washington's Hydraulic Code to protect existing habitat and mitigate for lost habitat and fish life for projects that influence the river bed and flow of state waters and that impact fish life. Provide technical review & assistance to other permitting agencies (Habitat Team & Enforcement Program)		Ongoing						WDFW	
HABITAT: PROT	ECT EXISTING HIGH	ຊຸບ	ALITY HABITATS							
Road / trail impact management to	Identify sediment sources and fish passage barriers		Annual road/trail condition surveys		Plan improvement projects		Removal of significant passage barriers		USFS	
protect existing high-quality habitats 7.1a	Work to remove barriers (culverts) associated with roads								SCWRC&D	

Action	Ongoing Actions and/or Strategies	C Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6		FISH HABITAT EN	IHA	NCEMENT ACTIONS	AN	D STRATEGIES			
Watershed headwaters protection and projects to protect existing high-quality habitats 7.1b	Support of acquisitions of Tieton Checkerboard, others. Forest resource lands protection under current GMA comp plan. Existing CAO & SMP protections	See listed Yakima County land regulation strategies (7.2d, 7.5a)		See listed Yakima County land regulation strategies (7.2d, 7.5a)		See listed Yakima County land regulation strategies (7.2d, 7.5a)		Yakima County	
	Support YBFWRB and YBSRB and proposed actions to protect high quality habitats							Benton County	Funded
	Grants from SRFB	ESA, anadromous salmon						SCWRC&D	
	Manage wilderness areas to protect water quality and aquatic resources	Monitor impacts of recreation use		Identify areas needing restoration		Develop restoration projects and adjust management to mitigate impacts from high use		USFS	
		ROMOUS FISH MIGRA	TIC	N CORRIDORS		-			
Flow related actions: protect/ enhance anadromous fish migration corridors 7.2a	Trust program in association with Water Transfers Work Group, YRBWEP & YTAHP	Ongoing		Ongoing		Ongoing		Ecology	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES	1		
Flow related actions to protect/enhance anadromous fish migration	Storage feasibility study EDT & Wetted perimeter analysis (5 area habitat improvement)		Ongoing		Ongoing		Ongoing		USBR	
corridors 7.2a	Acquisition program for priority reaches		Ongoing		Ongoing		Ongoing		USBR	YRBWEP funding
	Continue to participate and provide technical review and assistance as projects are proposed and implemented and, where applicable, implement and manage in-stream flow restoration projects (Water Team & Habitat Team)		Ongoing						WDFW	
	WDOT – Naches Reach Analysis & Mgmt Plan (same as Lower Naches coordination Project)								City of Yakima	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Flow related actions to protect/enhance anadromous fish migration	Administration & oversight of Yakima Tributary Access & Habitat Program (YTAHP)		Implement 07 Scope of Work		Continue through 09		Seek additional funds		SCWRC&D	Funded to 09 W/ BPA, WDFS, CDS & LAND- OWNERS
corridors 7.2a	Screening		Design & install technically approved intake screens						SCWRC&D	
Water quality actions to protect/enhance	Water Star Grass Abatement in lower Yakima River		Secured funding to test removal options	x	Secure additional funding		Secure additional funding		BCD	\$30K SRB funding
anadromous fish migration corridors 7.2b	Feasibility work on removal of Water Stargrass in mainstem Yakima								SCWRC&D	
	TMDL and permitting programs		Ongoing		Ongoing		Ongoing		Ecology	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	ID STRATEGIES			
Passage barrier improvements to protect/ enhance anadromous fish migration corridors 7.2c	Continue to work w/ co-managers, landowners & others to identify passage needs. Continue to participate & provide technical review & assistance as projects are proposed & implemented (e.g., YTAHP, Fish Passage TWG, Storage Dam Passage Team) Where applicable, implement & manage passage & access restoration projects (Habitat Team, Fish Program, TAPPS)		Ongoing						WDFW	
	Lower Naches River Coordination Project See report of Sept 2005		Water right transfer & Ranney well relocation (transferred 2000 gpm to Kissel Well)	x	Drill New well				City of Yakima (w/ Ecology approval)	
					Fruitvale & Old Union Canal Co Diversion relocation				City of Yakima	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Passage barrier improvements			Participate w/ RSBOJC						SVID	
to protect/ enhance anadromous fish migration corridors 7.2c	Sulphur Creek Wasteway passage barrier project		Obtain permits for fish barrier, end of Sulphur drain \$346,000 Construction 2008		Fish barrier, end of Sulphur Drain (if delayed)				RID	
			Design 2007 Construction 2008						RSBOJC	YRBWEP: \$200K RSBOJC: &100K
	See: Columbia River pump exchange / Columbia River New Water Right (3.2a) This would improve instream flows from Chandler Diversion to the Columbia River								KID	

Action	Ongoing Actions and/or Strategies	B B B B B B B B B B B B B B B B B B B	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6		FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			-
Passage barrier improvements to protect/ enhance anadromous fish migration corridors 7.2c	Assist all affected landowners w/ compliance issues related to ESA and state requirements regarding fish species on privately held lands w/in geographic priority areas	Provide technical assistance and financial incentives to provide for screened diversions, removal of barriers and to improve habitat				Fully implement Tributary Team Plans, appropriate sections of Yakima sub- basin Plan, develop incentive programs, and technical assistance programs		NYCD SCWRC&D	
	Barrier removal to allow fish passage							SCWRC&D	
	Reservoir dam passage study (tech feasibility study)	Complete FS spring 2008		EIS to follow reintroduction plan				USBR	
	Coordinate with fish co-managers and others on comprehensive fish plan	Coordinate with fish co-managers and others on comprehensive fish plan		W/ environmental (SEPA/NEPA) documentation - 2009				USBR	
	Other Roza Dam – passage improvement / enhancement	Final design - 2007		Budget 2010 (?)				USBR	Funding: BPA & others

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources			
TABLE 4.2.6	ABLE 4.2.6 FISH HABITAT ENHANCEMENT ACTIONS AND STRATEGIES .												
Passage barrier improvements 7.2c	YTID diversion dam – passage improvement / enhancement		Bid 2007 Construction 2007/8						USBR	Funding: USBR			
	Amon Creek Wasteway issue resolution on barrier v passage		Assessment & Planning		Future design		Future construction		USBR, KID				
Regulate land use/update land use regulations to protect and enhance anadromous fish migration corridors 7.2d	Protect existing habitat using CAO & SMP		Updates to CAO (2007) and SMP (2008)		Do outreach to inform the public and property owners re the value of, and the state of, the resources and the "why" of protective measures/regs. Integrate the outreach with the outreach program activities being done by the YBWRMP & the YBFWRB				Benton County	Partial funding re CAO and SMA updates			

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			-
Regulate land use/update land use regulations to protect and enhance anadromous fish migration corridors 7.2d	Existing CAO and SMP in effect that protect habitat functions		Updates to CAO and SMP to be finalized in 07. Regulatory consistency improved by integrating CAO & SMP reqs. to be similar, and by adopting regional CAO & SMP for both cities and county. Updated regs. use science to protect habitat.		Review future development for compliance with CAO & SMP to protect existing habitat		Regular updates to regs to incorporate new science		Yakima County	Funded
	Yakima County Naches River Flood Hazard Management Plan		Coordinate with county planning						City of Yakima	
	Implement forest plan standards for riparian areas		Ongoing				Monitor implementation and effectiveness of standards and BMPs		USFS	
	TMDLs		Ongoing		Ongoing		Ongoing		Ecology	
			TMDLs/CWA or 90.48 regulation as necessary		Ongoing		Ongoing		Ecology	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6 HABITAT: ENHAI	NCE DOWNSTREAM F	REA			NCEMENT ACTIONS			MA	INSTEM REACH	S .
Improve instream flow management to enhance downstream reaches and connect associated floodplains in tributary	Storage Feasibility Study See 3.1d.1 (Support w/ land and water acquisition)		See Yakima Basin Storage Feasibility Study 3.1d.1 Round Table confirmation of study criteria	x					USBR	
mainstem reaches 7.3a	Biological assessment ESA effect decision		NOAA / USFWS Agency review		Biological Opinion NOAA / USFWS				USBR	
	Assist all affected landowners w/ compliance issues related to the ESA and state requirements regarding fish species on privately held lands w/in NYCD's geographic priority areas		Provide technical assistance and financial incentives to provide for screened diversions, removal of barriers and to improve habitat				Fully implement Tributary Team Plans, implement appropriate sections of the Yakima Sub- basin Plan, develop incentive programs, and develop technical assistance programs		NYCD SCWRC&D	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			•
Improve instream flow management to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3a	Support improvements: Trust program Resource dependent		Ongoing		Ongoing		Ongoing		Ecology	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES	I		
Improve off- channel connectivity to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3b	Continue to work with the co- managers, landowners and others to identify needs and opportunities for connectivity. Continue to participate and provide technical review and assistance as projects are proposed and implemented (e.g., YBFWRB, YKFP, YTAHP, etc.). Where applicable implement and manage off- channel connectivity and floodplain restoration projects (Habitat Team)		Ongoing						WDFW	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6	•		FISH HABITAT EN	HAI	NCEMENT ACTIONS	AN	D STRATEGIES			
Improve off- channel connectivity to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3b	Update land use regulations within jurisdictional area Reduce violations of existing ordinances		Updates to CAO and SMP to be finalized in early 07. To the extent practical, integrate science from the WP, SRP and SBPs		Initiate focused public outreach to reduce violations of existing ordinances. Adopt comp. plan policies & amendments to existing CAO & SMP ordinances that enable creating of a "package(s)" of complementary land use controls / options/ incentives that can be applied in conjunction w/ tools/funding available through the YBFWRB, YBWRMA, RFEG, BPA, BCD, etc. to projects that involve critical resources and LFs identified in the SBP & SRP at the time of site- planning review. (See spreadsheet, Appendix B-2, for further details)				Benton County	Partial funding re CAO & SMA updates

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Improve off- channel connectivity to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3b	Existing Yakima County-wide Flood Control Zone District (FCZD) projects Douglas Wrecking Yard, Lower Naches Coordination, Gap to Gap Levee Pullback, Ahtanum Mission, etc. Project assistance and acquisition thru Co. Non- Regulatory Program.				Future Flood Control Zone District Projects - Rambler's Park, Yakima Water Treatment Plant reach, Actions in Wide Hollow Ahtanum CFHMP. Seek funding for implementation of habitat projects with Yakima County as project proponent. Project assistance and acquisition thru Co. Non- Regulatory Program.				Yakima County	FCAAP, SRFB, COE, NOAA W/ LAND- OWNERS, USFS, CD, WDFW, WDOT
	Support implementation of YBFWR Plan YBSR Plan								Yakima County	
	Remove irrigation diversions which may impede off channel habitat and replace with updated structures								SCWRC&D	
Water quality enhancement 7.3c	Support YRBWEP implementation through CAG & YBJB		Ongoing		Ongoing		Ongoing		YTID	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Water quality	Water Star Grass Abatement in lower Yakima River		Secured funding to test removal options	x	Secure additional funding		Secure additional funding		BCD	\$30K SRB funding
enhancement to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3c	Assist all affected landowners w/ compliance issues related to the ESA and state requirements regarding fish species on privately held lands w/in NYCD's geographic priority areas						Fully implement Tributary Team Plans, implement appropriate sections of the Yakima Sub- basin Plan, develop incentive programs, and develop technical assistance programs		NYCD	
	State trust program State non-point plan Resource dependent		Ongoing		Ongoing		Ongoing		Ecology	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Riparian area improvement to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3d	Continue to work w/ co-managers, landowners & others to identify riparian restoration opportunities. Continue to participate & provide technical review & assistance as projects are proposed & implemented (e.g., YBFWRB, YKFP, TYAHP, etc.) & where applicable, implement & manage riparian restoration projects (Habitat team)		Ongoing						WDFW	
	Apply local regs to protect Critical Area resource functions						See 7.3b & 7.4b for County/ cities. For other than "protection:" Livestock fencing program/ incentives. Riparian & floodplain restoration projects		Benton County	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Riparian area improvements to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3d	Assist all affected landowners w/ compliance issues related to the ESA and state requirements regarding fish species on privately held lands w/in NYCD's geographic priority areas		Provide technical assistance and financial incentives to provide for screened diversions, removal of barriers and to improve habitat				Fully implement Tributary Team Plans, implement appropriate sections of the Yakima Sub- basin Plan, develop incentive programs, and develop technical assistance programs		NYCD	

Action	Ongoing Actions and/or Strategies	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6		FISH HABITAT EN	HAI	NCEMENT ACTIONS	AN	D STRATEGIES	T		
In-channel complexity actions to enhance downstream reaches & connect associated floodplains 7.3e	To the extent that local permits, etc. are necessary, the County is supportive	See 7.3b, 7.4b		Work with & through YBRSRB, YBWRA board, non-profits, etc., to assist in identifying locations for such projects and certain land use related logistics for accomplishing them				Benton County	
	See habitat project strategies listed under 7.3b							Yakima County	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
In-channel complexity actions to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3e	Continue to work w/ co-managers, landowners & others to identify restoration opportunities. Continue to participate & provide technical review & assistance as projects are proposed & implemented (e.g., YBFWRB, YKFP, YTAHP, etc.). Where applicable, implement & manage in-channel complexity enhancement projects (Habitat Team)		Ongoing						WDFW	
Other improvements to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3f	Participate & provide technical review & assistance as projects are proposed and implemented and, where applicable, implement & manage enhancement projects		Ongoing						WDFW	

DIP September 10, 2007 Fish Habitat Enhancement

Implementing the actions on this plan is contingent on finding appropriate funding sources

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
HABITAT: ENH	ANCE DEGRADED BUT	FL	INCTIONAL AQUATIO	C H	ABITATS					
Improve	See # 7.2a								WDFW	
instream flow management	See actions listed under #7.3a								USBR	
7.4a	Biological assessment ESA effect decision		NOAA / USFWS Agency review		Biological Opinion NOAA / USFWS				USBR	
Improve off-	See # 7.3b								WDFW	
channel connectivity	See # 7.3b								Benton County	
7.4b	See # 7.3b								SCWRC&D	
Water quality	See actions listed under 7.3c								BCD	
enhancement 7.4c	See strategies listed under 7.3c								NYCD	
	TMDLs		Ongoing		Ongoing		Ongoing		Ecology	
Riparian area improvement	See strategies & actions listed under 7.3d								WDFW	
7.4d	See actions listed under 7.3d								Benton County	
	Habitat enhancement at WDFW Byron Ponds with treated wastewater effluent		Pond expansion to east Game Pond						City of Grandview	\$2 M NAWCA grant w/ WDFW
	Effluent delivery – 1998 Ducks Unlimited funded pipeline								City of Grandview	\$40,000 pipeline

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			-
	See strategies listed under 7.3d								NYCD	
Riparian area improvements to enhance degraded but functional aquatic habitats 7.4d	Enhance riparian conditions associated with barrier and screening projects and projects for bank stabilization and shading								SCWRC&D	
	Identify and implement restoration projects						Implement projects and management actions to mitigate impacts from increased recreation use		USFS	
In-channel complexity	See # 7.3e								Benton County	
actions to enhance degraded but functional	See habitat project strategies listed under 7.3e				See habitat project strategies listed under 7.3e				Yakima County	
aquatic habitats 7.4e	See actions & strategies listed under 7.3e								WDFW	
Other improvements 7.4f	See actions & strategies listed under 7.3f								WDFW	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6 HABITAT: PROT	ECT EXISTING HABIT	AT			NCEMENT ACTIONS		D STRATEGIES			
Regulate land use to protect existing habitat conditions from	See # 7.2d								Benton County	Partial funding re CAO and SMA updates
further degradation 7.5a	See #7.2d regarding actions on CAO & SMP regulations								Yakima County	Funded
			Being done as part of critical areas ordinance adoption by county 2007						City of Yakima	
	Assist land occupiers to comply w/ regulatory programs under Ecology, WDNR & WDFW						Continue		SYCD	
	Implement forest plan standards for riparian areas		Ongoing						USFS	
Evaluate/ regulate water use impacts 7.5b	Water Transfer Work Group reviews		Water transfers		Ongoing				USBR	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Evaluate/ regulate water use impacts to	River operations work group		Annually review winter incubation flows/spring migration flows						USBR	
protect existing habitat conditions from further degradation	TMDLs		Ongoing		Ongoing		Ongoing		Ecology	
7.5b	Continue to support & provide technical expertise to groups and programs that evaluate water use impacts. Administer & enforce Washington's Hydraulic Code to help ensure that projects that influence the bed and the flow of state waters do not adversely affect fish life (Habitat Team & Enforcement Program)		Ongoing						WDFW	
Focus on non- point pollution 7.5c			Focus on non-point source pollution Review/comment on proposed habitat projects						CA	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources			
TABLE 4.2.6	TABLE 4.2.6 FISH HABITAT ENHANCEMENT ACTIONS AND STRATEGIES .												
Focus on non- point pollution to protect existing habitat conditions from	Support BCD re agriculture. Control development runoff on-site								Benton County	Funding ??			
further degradation 7.5c	Stormwater management study		Development of stormwater program and its capital and educational elements		Source control and monitoring program as component of stormwater NPDES permit requirements				Yakima County	Partially funded			
	Provide technical review & assistance to Ecology and other entities to improve water quality		Ongoing						WDFW				
	Design and implement BMPs for all forest management activities		Ongoing				Monitor implementation and effectiveness of BMPs		USFS				

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources		
TABLE 4.2.6	FISH HABITAT ENHANCEMENT ACTIONS AND STRATEGIES . IABITAT: IMPROVE WATERSHED-WIDE INFORMATION BASE .											
HABITAT: IMP Improve information base 7.6	ROVE WATERSHED-WI YBSRP completed 2006 Joined YBFWRB 2006 Facilitate public participation, outreach (e.g., at workshops) and dialogue between various local interests, participate w/ YBFWRB & YBWRA. County staff be liaison w/ city staff (Not yet implemented)	x	INFORMATION BASE		If YBWRA board desires, integrate with the YBFWRB's basin-wide integrated public outreach program to bring to the local public and shoreline property owners policy objectives, information/data sets and implementation plans of the WMP & the YBSRP to foster understanding, support & participation				Benton County	Partially funded		
	YBSRP completed Joined YBFWRB 2006 Facilitate County Workshop(s) to develop more detailed habitat enhancement strategies at the county or subbasin level	x	Work in cooperation w/ YBFWRB and others on educational program						Yakima County	Partially funded		

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources				
TABLE 4.2.6	TABLE 4.2.6 FISH HABITAT ENHANCEMENT ACTIONS AND STRATEGIES .													
Improve watershed-wide information base 7.6	Provide Salmon In The Classroom								SYCD BCD					
	Develop & update data management tools (e.g., SHIAPP & EDT) Continue to update/ maintain/ support efforts to maintain existing databases, plans & management tools		Ongoing						WDFW					
Habitat assessment to improve	Water Star Grass Abatement in lower Yakima River		Secured funding to test removal options	x	Secure additional funding		Secure additional funding		BCD	30K SRB funding				
watershed-wide information base 7.6a	YTAHP (team) Inventory 280 miles of tribs in Yakima & Kittitas 04	x	Refine database & prioritize actions/ projects						SCWRC&D					
	YTAHP (team) Inventory 280 miles of tribs in Yakima & Kittitas 04		Ongoing monitoring				Seek funding		SCWRC&D	YTAHP (team) Inventory 280 miles of tribs in Yakima & Kittitas 04				

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Habitat assessment to	Stanford Study		Implement storage feasibility study habitat analysis 12/08						USBR	
improve watershed-wide information base 7.6a	YRBWEP		Land-water acquisition		\$ need				USBR	
	Feasibility Study – see 3.1d.1								USBR	
	Habitat assessment of Granger Drain								USGS	
	TMDLs		Ongoing		Ongoing		Ongoing		Ecology	
	Continue to assess habitat conditions to the extend funding allows, and leverage this effort through cooperative partnerships with others (e.g., YBFWRB, YKFP, YTAHP, SOAC, etc.) **a fundamental mission component		Ongoing						WDFW	
Monitor aquatic habitats 7.6b	Water Star Grass Abatement in lower Yakima River		Secured funding to test removal options	x	Secure additional funding		Secure additional funding		BCD	30K SRB funding

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources			
TABLE 4.2.6	TABLE 4.2.6 FISH HABITAT ENHANCEMENT ACTIONS AND STRATEGIES .												
Monitor aquatic habitats to	YTAHP (team) Inventory 280 miles of tribs in Yakima & Kittitas 04	x	Refine database & prioritize actions/ projects						SCWRC&D				
improve watershed-wide			Ongoing monitoring				Seek funding		SCWRC&D				
information base 7.6b	Continue to monitor aquatic habitat conditions through science programs, local biologist and through cooperative partnerships (e.g., YBFWRB, YKFP, TYAHP, SOAC, etc)		Ongoing						WDFW				
	Flow monitoring		Ongoing						USBR				
	Dam passage habitat		Assessment for potential benefits Complete FS – 2008		Complete EIS – 2009				USBR				
	Maintain fish counting facilities		Ongoing		Ongoing		Ongoing		USBR				
	Inventory habitat types with stream survey program		Continue to survey uncompleted streams				Repeat on approx. 20 year cycle		USFS				
	TMDLs		Ongoing		Ongoing		Ongoing		Ecology				

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6 HABITAT: MEAS	URE THE EFFECTIVE	NE			NCEMENT ACTIONS	AN	D STRATEGIES			
Focus on habitat conditions 7.7a	YTAHP ongoing effectiveness monitoring		Seek funding & refine protocols						SCWRC&D	
	See actions listed under 5.8a								WDFW	
	Monitor effectiveness of enhancement projects		Monitor recently completed projects				Repeat on 5 to 10 year cycle		USFS	
HABITAT: ENSU	RE WATER QUALITY	ANI		RDS	S REFLECT NATURAL	R	EGIONAL CONDIT	ION	IS	
Improve information and criteria 7.8a	Storage feasibility study (Model temperature below reservoirs & in lower river system)		Model flow releases (EDT input): 2008 River operations modeling (improve tool): 2008						USBR	
	Continue to support and provide technical review & expertise to entities and programs that work on water quality standards		Ongoing						WDFW	
	Monitor effectiveness of forest plan standards		Annually monitor selected standards				Adjust standards if necessary		USFS	

Action	Ongoing Actions and/or Strategies	B B B B B B B B B B B B B B B B B B B	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner	Possible Funding Sources
TABLE 4.2.1		OVERALL PLAN	IMP	LEMENTATION					
INTERGOVE	RNMENTAL COORDINAT	ON AND COMMUNICA	ΓΙΟΝ	IS					
	Detailed Implementation Plan (DIP)	First year implementation planning: 1. Administration 2. Contact group A water users 3. Establish WRAC 4. Complete DIP	x x					СА	Ecology grant
	Watershed Management Plan Implementation			Plan implementation		Plan implementa- tion		СА	
PURSUE AD	DITIONAL FUNDING	1 1							
	Prepare grant applications to obtain 90.82 funds for implementation and administration	Year 1: reimbursement requests Year 2: Obtain year 2 funding Oct 2007		Obtain 3 rd – 5 th year funding		Obtain ongoing state funding for 90.82 operations & projects		СА	Admin: state 90.82 CCW projects & WQ planning
MONITOR P	LAN IMPLEMENTATION					I			
	Annual review of DIP actions by WRAC w/ implementing partners	Dec 2007 report Dec 2008 report		Ongoing				CA	
PREPARE A	NNUAL PROGRESS REPO								
	WRAC with director prepare annual progress report	1. Reports: 2007/08 2. Update scope of work	5	 Annual reports Annual scope of work updates 		Ongoing		СА	
COORDINAT	TE WATERSHED PLAN UP	DATES		1		1		1	
	Schedule 5-year plan updates as needed	Review Plan / identify issues for required updates		To be determined				СА	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources			
TABLE 4.2.2	TABLE 4.2.2 SURFACE WATER RESOURCE ACTIONS AND STRATEGIES .												
Information Clearinghouse - surface water 3.0	Provide watershed information as requested		Participate in USBR Round Table	x					CA				
SURFACE WAT	ER RESOURCES: STC	RA	GE										
Support design and construction of	Ongoing political and financial support for storage study and YBSA		Continued support		Continued support		Project implementa- tion		Benton County Yakima County	Partially funded			
storage projects 3.1	Draft EIS and Work Plan to be completed by 2008 and finals for both by 2009		Ongoing		?		?		Ecology/ USBR				
	Reregulation reservoir 1,200 ac/ft		Design		Construction Completion date unknown				RID	RID funds ~\$10M Currently in land acquisition, may be delayed			
Seek state authorization & funding to match fed \$ for storage study 3.1a	Support state funding requests: 1. USBR study 2. Pine Hollow		To be determined		Seek match for storage construction funding				CA				

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources			
TABLE 4.2.2	ABLE 4.2.2 SURFACE WATER RESOURCE ACTIONS AND STRATEGIES												
Seek state authorization & funding to match federal \$ for storage	Participate in and track Columbia River Management Program for basin funding opportunities		1.Participate w/ Columbia River Commissioner's Advisory Group (CRCAG) 2. Participate in Policy Advisory Group (PAG)						CA				
study 3.1a	Funding available through June 2007		Work w/ Ecology & Legislature for future funding		Work w/ Ecology & Legislature for future funding				USBR				
	ER RESOURCES: STC	RA			· • • •					·			
Seek authorization and funding from Congress to conduct feasibility studies, prepare environmental review for additional storage 3.1b	Yakima Basin Storage study Start 2003				Authorization to be determined – 2009				USBR				
Provide seed funding in support of storage 3.1c	Funding to YBSA		Annual funding						Benton (previously) & Yakima Counties, City of Yakima	Funding for 2007: Yakima Counties, City of Yakima (see 3.5a- city of Yakima)			

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RF	ACE WATER RESO	UR	CE ACTIONS AND STR	RATEC	GIES			
Complete			Feasibility Study (FS) & EIS completed by 2008 Record of decision						USBR	
Yakima Basin Storage Study 3.1d.1	Support existing forums		Review progress on USBR/Ecology storage study & EIS & Pine Hollow storage study						CA	
	See actions listed under 3.1		Ongoing		Ongoing		Ongoing		Ecology	
Complete Pine Hollow Reservoir Study 3.1d.2	Will provide assistance & facilitation when a water rights agreement pertaining to water availability is reached by the major water rights holders and upon request from the same. State funding is currently available to move forward with final assessment/ planning work.		?						Ecology	
Continue aquifer storage & recovery project 3.1e	On hold but still active		Obtain permits and test				First well in 2012 Second in 2014		City of Yakima	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RF	ACE WATER RESO	UR	CE ACTIONS AND STRAT	FEG	BIES			
Review existing flow management regime, identify opportunities to enhance instream flows for fish and implement where possible 3.1f	Storage Feasibility Study See 3.1d.1		Complete w/ FS in 2008						USBR	
Assist in identifying areas to enhance flows and support instream flow enhancement	WDFW has and will continue to participate in identifying and prioritizing instream flow enhancement projects (Water Team and Habitat Team) and support other agency efforts to improve instream flow (e.g., Ecology, USBR, YRBWEP, CAG, etc)		Ongoing						WDFW	
efforts 3.1h	By 2009, Cowiche Basin will yield enough water for legal uses and fish and wildlife needs		By 2006, implement programs / actions that benefit instream flows See 3.4b						NYCD	

Implementing the actions on this plan is contingent on finding appropriate funding sources

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2 SURFACE WA	SU TER RESOURCES: EFF			UR	CE ACTIONS AND STRA	TEG	BIES			
Work with USBR to implement water use efficiency projects, including	Replace open ditch irrigation with low pressure pipe								BID	Total cost 4 projects: \$1,026,668. 76 10% Buena ID 90% cost share
establishing agreements, design and	Construct concrete control structures for access and cleaning								BID	
construction 3.2a	Install flow meter at diversion								BID	
0.20	NSID/Wapatox Canal		Feasibility Study		Selection of preferred option—negotiate agreement Final design & bidding				NSID	
	Canal lining; Line ~1 mile of lateral 2 canal		Canal lining; Line ~1 mile of lateral 2 canal		Ongoing		Ongoing		CID	30% State (Ref 38) & 70% local
	Implement water use efficiency projects identified in conservation plan of Oct 2004 or by district		Seal and refurbish main canal 1 ½ mile/year						KID	\$1.25M/yea District funds 2006
	Delivery system metering		Install flow controls and flow meters		Install delivery system improvements				KID	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RF	ACE WATER RESO	UR	CE ACTIONS AND STRAT	ΓEG	SIES			
Work with	Clay line the canal for leakage/flow control by ID crew								KID	District O & M funds
USBR to implement water use efficiency projects, including establishing agreements, design and	Work with Ecology Columbia River Water Resources Mgmt. Program on water right permits for alternative pumped supply & funding for implementation								KID	
construction 3.2a	Work with USBR on Columbia River pump-exchange feasibility study or alternative		Develop Columbia River water right alternatives for evaluation and implementation w/ better irrigation delivery and Yakima River fish mitigation						KID	USBR/ Ecology funding
	Develop and formalize "outage" program of planned repairs (non- irrigation season)		Implement and improve						KID	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RF	ACE WATER RESC	OUR	CE ACTIONS AND STR	ATEG	IES	_		
Work with USBR to implement water use efficiency projects, including establishing	Sunnyside Canal Improvement Project (SCIP):								SVID	Total project \$32M 2005 - 2013 Total conservatio n 30,000 ac ft: 20,000 to instream flows, 10,000 RSBOJC jr water rights
agreements, design and construction 3.2a	SCIP reregulation reservoirs: Whitstran MP 23.4 \$6.5M est)	x	Pumpkin Center MP 23.4 \$6.5M (est.) Design Construction		North Sunnyside MP 23.4 \$6.5M (est) Design Construction				SVID	Federal USBOR, YRBWEP – State Rev 38
	SCIP supervisory control and data acquisition		Design Construction						SVID	Federal USBOR, YRBWEP – State Rev 38
	SCIP canal check structures: 30 automated gates to replace flash board checks		Design Construction						SVID	Federal USBOR, YRBWEP – State Rev 38
	Prioritized enclosed conduit projects: \$0.5 – 1.0M / year (~500 ac ft/yr)	x	0.5 – 1.0M / year (~500 ac ft/yr)		0.5 – 1.0M / year (~500ac ft/yr)		0.5 – 1.0M / year (~500 ac ft/yr)		SVID	SVID, state, federal. Source and ratio varies

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RF	ACE WATER RESC	UR	CE ACTIONS AND STRA	ΓΕΟ	GIES			
Work with USBR to implement water use efficiency	Add reregulation reservoirs near the tail end of major laterals to recover lateral end spill (funding level determines rate of implementation)		Design Construction						SVID	SVID, state, federal. Source and ratio varies 2.0M (1000 af)
projects, including establishing agreements, design and construction 3.2a	Identify water conservation practices that assist agricultural, small farm & urban water users		Work w/ agency partners in researching and developing improved methods of water conservation practices such as innovative irrigation implementation, control & scheduling		Increase water conservation practices in Benton County to show a 10% improvement in amount of water saved				BCD	
	Education Project to introduce "Soil Moisture Monitoring Techniques"		Communicate w/ USBR re further work on project & funding. Form "Bridging Headgate" regional team						SCWRC&D	W/ USBR (\$55K for 2 yrs), SYCD, RID, LAND- OWNERS

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RF	ACE WATER RESC	UR	CE ACTIONS AND STRAT	ΓEG	BIES			
Work with irrigation districts to implement water use	Conserve domestic water supply by providing (parallel) irrigation piping system w/ SVID / Grandview		Dual water system: Alternate days on irrigation schedule for domestic & irrigation use SVID quarterly meetings		Ongoing		Ongoing		City of Grandview	
efficiency projects through agreements, funding and	Continue investigating purchase of irrigation water rights		Obtain irrigation water to irrigate parks						City of Mabton	Local \$
other actions 3.2b	Installing irrigation system w/in city limits to conserve domestic water supply		1000 ft/yr		Ongoing		Ongoing		City of Moxee	
	Parallel irrigation piping system w/ Selah-Moxee ID		Start 2007 Complete 2008						City of Moxee	\$40,000 spent
	Irrigation system pipe replacement		Irrigation system pipe replacement		Irrigation system pipe replacement		System pipe replacement		City of Yakima	Local \$

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RF	ACE WATER RESO	UR	CE ACTIONS AND STRA	TEG	IES			
Work with irrigation districts to implement water use efficiency	Safety program / prevention strategy		Canal subsidence/ leaks Investigate with ground penetrating radar and infrared photography Prevent encroachment of right of way						KID	\$50,000/ year
projects through agreements, funding and other actions 3.2b	Re-regulation reservoir				Re-regulation reservoir 1,200 ac-ft About \$10,000,000 (currently in land acquisition, may be delayed)				RID	Roza Irrigation District funds
	Enclosed Conduit System (ECS) 10-12 miles pipe/year		Ongoing		Ongoing		Ongoing		RID	RID funds \$1,200,000/ year
	Retrofit existing flashboard checkstructures w/ automated Langemann Gates		Mile post 62.4 \$75,000						RID	Roza Irrigation District funds
	Apply hydrolastic to cracks of concrete lining to seal up leaks		Mile post 60.8		Mile post 61.8		Ongoing, to be determined where		RID	Roza Irrigation Dist funds
	Develop strategy for replacement of 100 year-old canal delivery system								YTID	

Action	Ongoing Actions and/or Strategies	B B B B B B B B B B B B B B B B B B B	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RFACE WATER RES	OUF	RCE ACTIONS AND ST	RATE	GIES			
Work with irrigation districts to implement	Implement 1995 conservation Plan (205 Addendum) to conserve water for	Pipe replacement: 2 miles of failing wood flume (MO 0-9) Line 3 miles of canal						NSID	
water use efficiency projects	beneficial use and/or return to instream flows	1.4 miles pressurized pipe (Lat #1)						NSID	
through agreements, funding and other actions 3.2b		Replace & upgrade 9000' of pipe w/ pressurized pipe (Lower Lat #2)						NSID	
		Pipe 1.5 miles (#1/NPH Lat)	Х	(NSID	
		Pipe 5 miles of open canal Replace 2 miles of failing wood pipe (#1/NPH Lat)					NSID	
		Replace 1.1 mile of wood pipe Pipe 1.7 miles open canal Upgrade other distribution pipe (#3 Lat)						NSID	
		Line 55 ac-ft re- regulation reservoir (MP 15)	x					NSID	
		Line & rehab main canal (MP 9-15)						NSID	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	IRF.	ACE WATER RESO	UR	CE ACTIONS AND STRAT	ΓEG	GIES		Γ	
Work with irrigation districts to implement water use	Identify water conservation practices that assist ag, small farm, and urban water users		Work to secure funding to implement water conservation practices throughout county		Increase conservation practices to show a 10% improvement in amount of water saved by 2010				BCD	
efficiency projects through agreements, funding and other actions 3.2b	Cowiche Basin will yield enough water for legal uses and fish and wildlife needs by 2009		Measure water flows to establish baseline needs Support landowners in meeting water measurement compliance w/ Ecology & WDFW stream flow monitoring						NYCD	
	Maintain public awareness of programs for on-farm water conservation practices		Continue district newsletter with information updates Conduct irrigation system efficiency analysis Seek funding for irrigation efficiency		Continue seeking funding for irrigation efficiency project implementation (BCD)		Promote on- farm conservation practices		SYCD BCD	
	See action under 3.2a		emoloney						SCWRC&D	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RF	ACE WATER RESC	OUR	CE ACTIONS AND STR	ATEC	SIES			
Work with	YRBWEP		Ongoing						USBR	Ecology funds
irrigation	SVID		See SVID						USBR	
districts to implement	Benton ID		Final design						USBR	
water use	WIP		Possible start ?						USBR	
efficiency projects	Roza ID		See RID						USBR	
through agreements,	Selah-Naches ID		Planning						USBR	CCW
funding and	KRD Plan	Х	On hold						USBR	
other actions 3.2b	Kennewick ID (Pump exchange)		EIS & FS complete 2007		Seek authorization				USBR	Federal USBR funding (State Match)
Implement BMPs and projects that improve irrigation and	Develop strategic plan for redistribution / recalibration of service areas within district to serve growth/ new irrigation areas		Ongoing		Future project implementation to be determined				KID	
cropland management 3.2c	New coordination with USBR on internal KID water allotment transfers. Greater flexibility in water transfers from vacant/ non-irrigated to areas of need		Permanent & annual transfer, engineering review, locator services and inspections						KID	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RF	ACE WATER RESO	UR	CE ACTIONS AND STRAT	ΓEG	BIES			
Implement BMPs and projects that improve	Work with cities (Richland, Kennewick, West Richland) to provide irrigation services for lands converting from ag to urban use		Address 500-600 new customers per year added to 21,500 existing customers						KID	
irrigation and cropland management 3.2c	Provide technical assistance and financial incentives to implement BMPs and projects that improve irrigation efficiency & quality management		Support landowners in development and implementation of on-farm irrigation efficiency and quality improvement projects		Ongoing				NYCD	
	Identify water conservation practices that assist agricultural, small farm and urban water users		Assist county residents w/ implementation of water conservation practices through technical assistance and cost share programs		Increase water conservation practices throughout the county to show a 10% improvement in water saved				BCD	
	Improve on-farm delivery and crop irrigation efficiency		On-farm loan program: convert from rill to BMP		On-farm loan program: convert from rill to BMP		On-farm loan program: convert from rill to BMP		RSBOJC W/ SVID & RID	CCW loan account \$4,000,000
	See action under 3.2a				Associated benefits at Irrigation District Level Associated benefits at farm level				SCWRC&D	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RF	ACE WATER RESO	UR	CE ACTIONS AND STRAT	ΓEG	BIES			
Improve cropland management 3.2c	Provide technical assistance through conservation districts								WSU	
Seek funding for research efforts in support of water use efficiency 3.2d	 Sprinkler uniformity testing and Irrigation scheduling Optimum irrigation level 		Ongoing Ongoing Ongoing		Ongoing Ongoing Ongoing				WSU	
SURFACE WAT	ER RESOURCES: REI	JSE								
Periodically review reuse opportunities	Review systems over 1000 connections		Ongoing						WDOH	
during utility plan updates 3.3b	Habitat enhancement w/ treated effluent on WDFW lands				Investigate w/ RSBOJC for reuse during drought years				City of Grandview	
	Plan update				Next look in 2010				City of Yakima	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RF	ACE WATER RESO	UR	CE ACTIONS AND STRA	TEG	BIES			
Encourage reuse opportunities 3.3c	Amon Wasteway reuse project to irrigate Local Improvement District (LID) of 1,500 homes		Reduce high groundwater levels						KID	
SURFACE WAT	ER RESOURCES: WAT	ΓEF	R RIGHTS TRANSFE	RS						
Process water right transfer / change	WTWG MOU w/ Ecology to address TWSA & storage	x	Negotiate agreement w/ Ecology – 2007						USBR	
applications in a timely manner 3.4a	Two-line permit process		Ongoing – resource dependent		Ongoing – resource dependent		Ongoing – resource dependent		Ecology	
Explore source substitution 3.4b	Continue considering Cowiche Creek Water Users Assoc. water exchange project Planning by NYCD		Continue considering: Planning phases: Complete the necessary agreements, contracts and court approval		Continue considering; Construction: Install infrastructure in YTID system Implement by delivering and monitoring water use		Continue considering: Ongoing: deliver & monitor water use		YTID	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RF	ACE WATER RESO	UR	CE ACTIONS AND STRA	ΓEG	IES			
Explore source substitution 3.4b	By 2009, Cowiche Basin will yield enough water for legal uses and fish and wildlife needs		Put together agreement and implementation project between Cowiche County Water Users Group & YTID to develop alternate sources of water						NYCD	
SURFACE WAT	ER RESOURCES: CON	/Μl	JNICATION / PUBLI	CE	DUCATION					
Design and implement public education	Support design and implementation of public education program		Regional education coordination consortium		Regional education coordination consortium				CA, Benton County, Yakima County	Not funded
program to support storage, efficiency,	Letter notice to conserve water		PEP in English and Spanish						City of Mabton	
reuse, and/or transfer actions 3.5a	Annual report with conservation tips		Promote dual irrigation system as new subdivision requirement						City of Sunnyside	
	Support storage with funding to YBSA		Annual funding						City of Yakima	
	YBSA activities								City of Yakima	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RF	ACE WATER RESO	UR	CE ACTIONS AND STRA	TEG	IES			
Design and implement public education program 3.5a	Urbanization Conference	×	Future events on LID formation, developer specs, design & sale of modular irrigation distribution system for maintenance by ID (standardization)		Repeat per requests				KID	
	Coordinator to work w/ users		Web site, Public Agency announcements, news letters, information cd for new customers						KID	½ FTE
	Education project to introduce Soil Moisture monitoring techniques (3.2a)								SCWRC&D	
	Identify water conservation practices that assist small farm and urban water users		Assist county residents w/ knowledge and implementation of xeriscaping techniques to reduce irrigation demands						BCD	
	Maintain public awareness of need for storage alternatives		Continue district newsletter w/ information updates		Annual newsletter		Promote new water storage sources		SYCD	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SUI	RF	ACE WATER RESO	UR	CE ACTIONS AND STRA	TEC	GIES			
Participate in interagency	Support existing forums and establish new forums as needed		Participate in existing YRBWEP & YBSA forums		Ongoing		Support implementa- tion of major storage		CA	
coordination forum 3.5b	Milestone / event reports to agencies & public		Monthly reports Draft EIS 12/07 Final EIS 12/08						USBR	
	Conservation Advisory Group (CAG)		Semi-annual meetings						USBR	
	Water Transfer Work Group (WTWG)		Monthly meetings						USBR	
	Dam passage		Monthly meetings						USBR	
	River Operations Work Group (ROWG)		Monthly updates						USBR	
	System Operations Advisory Committee (SOAC)		Recommend instream flows to maintain fish life in the Yakima Basin		Roza Dam passage review		Monitor YRBWEP- acquired water		USBR	
	Develop linear park along canal rights of way		Walking / bikeways along right of way						KID	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid-Term Actions 3 – 5 Years	comp	Long-Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.2	SU	RF	ACE WATER RESC	UR	CE ACTIONS AND STRAT	ΈG	BIES	T		
Participate in interagency coordination forum 3.5b	Seek opportunities to collaborate with other agencies to improve conditions in the watershed. Continue to participate in interagency coordination forums upon request. Currently participating in several interagency coordination efforts (e.g., SOAC, YTAHP, YKFP, YBFWRB, etc.)_(Habitat Team, Fish Program)		Ongoing						WDFW	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.3		G	ROUND WATER RES	501	JRCE ACTIONS ANI	D S	TRATEGIES			
Information clearinghouse – ground water resources 4.0	Provide watershed information as requested		Provide information on ground water						СА	
GROUND WATE	ER RESOURCES: MA	N/A	GEMENT		In-County					1
Develop policies or regulations to facilitate establishment of new or expanded public water systems 4.0 (Table 8-1 wording amended to reflect intent of WMP) 4.0	GMA review of subdivisions for adequate water supply. Developers have option to construct own community sewer / septic systems to get higher density in some rural zoning districts		Review land use changes for certification of adequate water supply		discussions re: well use in rural areas for subdivisions, existing undevel. lots, and redevelopment. Consider appropriate changes to policies & regs. Look at linking Utility Planning to development process for smaller devels. like subdivisions.		Participate in the policy discussions surrounding the USGS / USBR / YN / Ecology Groundwater study to determine the ability to develop new, non- exempt groundwater sources for utilities		Yakima County	
Develop policies regarding exempt wells 4.0			For plats, discussion of adopting regs that require up to 5-6 dwellings per one exempt well, rather than permitting one exempt well per parcel is a step forward		Amendments to Building/ Subdivision Codes to specify potable water supplies in bldg. & subdivision permit apps				Benton County	Not funded

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.3		G	ROUND WATER RES	501	JRCE ACTIONS AND) S	TRATEGIES			
Define specific groundwater management actions consistent with overall objectives of watershed plan (reliability) 4.0	Water supply intertie agreement								City of Grandview w/ Sunnyside & Prosser	
	USGS-SID report 2006-5116		Report due 3/2008						USGS	
Groundwater studies 4.1a	USGS-SID report 2006-5136		Report due 3/2008						USGS	
	USGS-SID report 2006-5205		Report due 3/2008						USGS	
	USGS-SID report 2006-5318		Report due 3/2008						USGS	
			Report due 9/2008						USGS	
			Role of shallow gw in the movement of pesticides & nutrients to a small ag drain in the lower Yakima River Basin. Journal article due 10/07						USGS	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.3		G	ROUND WATER RES	501	JRCE ACTIONS AND) S	TRATEGIES			
Ground water studies 4.1a			Water movement w/in unsatureated zone in 4 ag areas of US. 1 site in Granger Drain Basin. Article to be published in Journal of Environmental Quality						USGS	
	Water levels in land use monitoring wells (row crops & orchards) in Columbia Irrigation project				Will be monitored in July/ Aug over the next 3 -5 years				USGS	
Track progress of USGS Study and provide input to its application and			Review progress on ground water study due 2008		Convene WRAC and/or subgroup to review study & develop policy/ recommendations to Chapter 4 of WMP as required				CA	
associated policy decisions 4.1a	Support local governments in tracking progress of the USGS Study		Ongoing		Ongoing				Ecology	
	Tracking by Surface Water management and Utilities in Public Services		Same		Participate in development of implementation actions / legal recommendations				Yakima County	Partially funded

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.3		G	ROUND WATER RE	SO	URCE ACTIONS AN	D S	TRATEGIES			
Track progress of USGS Study	Support Frank Spane, PNWL		Quarterly meetings Complete study 08		Future groundwater management policy decisions				USBR	USGS \$ to \$20K/yr
and provide input to its application and associated policy decisions 4.1a	Track progress				Review on completion				Benton & Yakima Counties, Cities of Sunnyside, Yakima, USBR, SVID, RID, YTID	
Design and establish	Establish forum to develop improved groundwater monitoring system								CA	
improved system for monitoring and	Installing probe to monitor water levels		Complete in 2008						City of Sunnyside	
managing aquifer water levels over the			Track progress of study		Track progress of study				Benton County	Not funded
long term 4.1b	Tracking by Surface Water Management and Utilities in Public Services		Continue tracking by Surface Water management and Utilities in Public Services		Cooperative database development				Yakima County	Partially funded
	Industrial user conservation incentive program		Ongoing		Ongoing				City of Grandview	
	Consolidate ground water permits						Ongoing		City of Grandview	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.3		G	ROUND WATER RE	SO	URCE ACTIONS ANI	D S	TRATEGIES			
Design and establish	Monitor water level in city wells		Monitor water level in city wells		Monitor water level in city wells Compare to USGS study				City of Yakima	
improved system for monitoring and managing aquifer water	Intertie to share Yakima County water rights to serve Hwy 24 corridor								City of Moxee	
levels over the long term 4.1b	Assist local water purveyors : Consider when proposed - Resource dependent								Ecology	
Participate in development of any programs pertaining to the use and management of groundwater rights in Yakima Basin consistent w/ WMP, Alternative II-2 4.1c	Moratorium review at end of ground water study				Participate in policy discussions. Recommend policy development. Update Chapter 4 WMP				Benton, Yakima Counties Cities of Grandview, Mabton, Sunnyside, Yakima, SVID, RID, YTID	
Expand service by public water systems within urban growth areas 4.1d	Assist municipalities as appropriate		Ongoing						WDOH	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.3		GI	ROUND WATER RES	SOI	JRCE ACTIONS ANI	D S	TRATEGIES			-
Expand service by public water systems in urban growth areas 4.1d	Support service area expansion to discourage proliferation of exempt wells		Draft Co. ordinance for UGAs requires developments w/in 400' of city service to "hook-up" if city will serve. Binding the cities to do so would require an interlocal agreement. The incentive for developers is urban versus rural density.		Agreements w/ all cities to serve in UGAs w/out annexation where annexation is problematic				Benton County – co-lead with cities	N/A
	Public water provider's service areas usually follow UGA lines. They are free to extend svcs. in those areas & are expected to provide svcs when justifying the size of UGAs. Developers must use services if near them, and must use large lot sizes if not.		Joint planning of utility extensions w/ City of Yakima, Union Gap and other cities. Address issue in individual cities' comp. plan Utility Element & water system plans for unincorporated growth areas		Formal Service Extension Agreements (SEA) w/ providers. City/county discussions re: well use in UGA for subdivisions, existing undevel. lots and redevelopment. Consider appropriate changes to policies & regs				Yakima County – co-lead with cities	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.3		G	ROUND WATER RES	SO	URCE ACTIONS AN	DS	TRATEGIES			
Expand service by public water systems within urban growth	Annexation with decommissioning of existing wells		Expand service area w/ dual irrigation system. Urban growth boundary review pending w/ county		40-acre annexation pending				City of Grandview	
areas 4.1d	Annexation 150- 180 ac (south) Allison Road		Annexation public hearing March 2007						City of Mabton	
	Need for additional domestic water supply		Replacement well #5 to be completed August 30, 2007						City of Mabton	
	Annexation with assumption of existing well		Urban growth boundary expansion pending w/ county Annexations pending						City of Moxee	
	Urban water system expansion		Ongoing expansion of urban area		Ongoing				City of Sunnyside	
	New well replacement #11 completed	x	#12 in 2008				Ongoing		City of Sunnyside	
	Work with WA Water Utilities Council Chapter of American Water Works Assoc. to protect water law (HB 1338)		Monitor court case						City of Yakima	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions		Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.3		G	ROUND WATER RES	SOI		ND S	STRATEGIES			
Expand service by public water systems within urban growth	Work with cities requiring use of irrigation water as part of development		Install dual irrigation systems to District standards and standardization for operations by District						KID	
areas 4.1d	Future conversion of available irrigation wells to domestic use by cities		Inventory all drains to canals and require alternative to eliminate discharges of domestic water from city domestic water reservoirs to KID canals						KID	
GROUND WATE	R RESOURCES: PU	BL	C EDUCATION							
Develop a public education program 4.2a	Join existing regional education coordination consortium		Organize and coordinate development of public education program						СА	
	Establish new forum as required		Coordinate with Group A water purveyors						CA	
			Regional educational coordination consortium		Regional educational coordination consortium				Benton County	Not funded

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.3		G	ROUND WATER RE	SOI	JRCE ACTIONS ANI	D S	TRATEGIES			
Develop a public education			Regional educational coordination consortium		Regional educational coordination consortium				Yakima County	Partially funded
program 4.2a	City code requiring alternate-day irrigation schedule		Monitored by city staff		Ongoing				City of Grandview	
	Letter notice		Public Education Program in English & Spanish						City of Mabton	
	Public education program to preserve domestic/irrigation water						Ongoing		City of Moxee	
			Web site, Public Agency announcements, news letters, compact disc for new customers						KID	
	Assist with design and implementation		Consider when proposed Resource limited						Ecology	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ç		UAI	LITY ACTIONS AND S	STR	ATEGIES			
SURFACE WATE	RQUALITY									
Information clearinghouse- surface water quality 5.0	Provide watershed information as requested		Conduct annual CCW local priority ranking		Ongoing				СА	
Consider administering permitting processes and programs consistent with water quality and habitat strategies 5.0									Ecology	
Develop TMDLs for water quality parameters 5.0			Ongoing		Ongoing		Ongoing		Ecology	
SURFACE WATE	R QUALITY: PREVEN	IT /	MITIGATE FOREST I	MP	ACTS					
Improve forest road/ trail management	Implement new off- highway vehicle policy		Identify appropriate trails and uses		Complete NEPA by 2009		Annually update		USFS	
5.1 a	Implement FS/ Ecology MOA for Clean Water Act compliance		Annually prioritize road maintenance and stabilization needs		Continue road analysis and management plans		Implement road improvement projects		USFS	
Improve timber harvest management	NEPA planning process for project design		Ongoing						USFS	
5.1 b	Design and implement BMPs for harvest activities		Contract administration for currently active sales		Monitor implementation and effectiveness		Refine BMPs		USFS	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ç		UAI	LITY ACTIONS AND S	STR	ATEGIES			
Implement watershed	Develop Firewise policy / program								NYCD	
actions to prevent / mitigate forest impacts 5.1c	Fuel treatment to restore natural fire regime		Reduce wildfire risk in urban interface areas		Continue planning and implementation for treating approx. 5,000 acres /year		Maintain wildfire risk reduction by periodic prescribed burning		USFS	
SURFACE WATE	R QUALITY: PREVEN	IT /	MITIGATE AGRICUL	TUF	RE IMPACTS					
Improve irrigation management to prevent / mitigate ag impacts 5.2a	Provide w/ Ecology's on-farm conversion loan program to convert rill irrigation to BMP irrigation or pump- back systems		Administer irrigation improvement loans		Ongoing		Ongoing		RSBOJC W/ SVID, RID	Ecology Ioan \$1,200/acre @1%, 4-yr repayment
inipuoto 5.24	Installed pressurized irrigation system	x	Ongoing monitoring		Ongoing monitoring		Ongoing monitoring		YTID	
	Improve on-farm delivery and crop irrigation efficiency as needed		Ongoing (95% completed)						KID	
	Assist landowners to implement conservation plans and BMPs Promote irrigation improvements				WQ of rivers & streams in Benton County will have shown continual improvement by Ecology evaluation standards by 2010				BCD	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ç		UAI	LITY ACTIONS AND S	STR	ATEGIES			
Improve irrigation management 5.2a	Assist landowners to implement conservation plans and BMPs Promote irrigation improvements		Implement the TMDLs in Transition Grant		Lower concentrations of contaminants in irrigation return flows by 2011				SYCD	
	Education project to introduce soil moisture monitoring techniques (see 3.2a)		Associated water quality benefits						SCWRC&D	
	Seek funding for research efforts & work w/ landowners to implement BMPs & projects that improve irrigation management		Associated water quality benefits: 1.Sprinkler uniformity testing 2. Irrigation timing/ scheduling 3. Optimum irrigation level (see 3.2d)						WSU	
Improve cropland management 5.2b	Improve understanding of fate and transport of various contaminants Assist landowners to implement conservation plans and BMPs		Assess local stream and river bank activities that could impact water quality and work with landowners to implement water quality improvement practices		Continue to obtain state and federal funding WQ in rivers / streams will show continual improvement by Ecology standards				BCD	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ç	SURFACE WATER Q	UAI	LITY ACTIONS AND S	STR	ATEGIES			
Improve cropland			Implement water quality improvement programs identified by the TMDL						NYCD	
nanagement 5.2b	Improve understanding of fate and transport of various contaminants Assist landowners to implement conservation plans and BMPs		Obtain state and federal funding for implementation of BMPs		Continue to obtain state and federal funding Lower concentrations of contaminants in irrigation return flows by 2011				SYCD	
	Developed & implemented outreach plan for Naches watershed related to Conservation Security Program	x	Fatablickad						SCWRC&D	
	"PAM" project for sediment control	x	Established program for use as needed						SCWRC&D	
	Seek funding for research efforts & work w/ landowners to implement BMPs & projects that improve cropland management		Air quality Buffers Border strips Rainfall impacts						WSU	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4				UAI		STR	ATEGIES			
Reduce impacts of agricultural chemicals 5.2c	Apply aquatic herbicides within requirements of FIFRA and NPDES		Ongoing		Ongoing		Ongoing		YTID	
	Implement conservation plan w/ secondary benefits to improve water quality as canal (lat) distribution system enclosure will require less chemicals for pest control		See project list #3.2b						NSID	
	Education, training & licensing of applicators		License pesticide applicators Schedule annual applicator training		Ongoing		Ongoing		WDOA	
	Offer technical assistance in fertigation and chemigation				Ongoing		Ongoing		WDOA	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ç		UAI	LITY ACTIONS AND S	STR	ATEGIES			
Reduce impacts of agricultural chemicals 5.2c	Improve understanding of fate and transport of various contaminants Assist landowners		Assess local stream and river bank activities Work w/ landowners to implement WQ improvement practices		WQ in rivers / streams will show continual improvement by Ecology standards				BCD	
	to implement conservation plans and BMPs				Lower concentrations of contaminants in irrigation return flows by 2011				SYCD	
			Implement water quality improvement programs identified by the TMDL						NYCD	
Reduce livestock impacts (CAFOs) 5.2d	Reduce livestock impacts		On-farm loan program: convert from rill to BMP		On-farm loan program: convert from rill to BMP		On-farm loan program: convert from rill to BMP		RSBOJC	CCW loan account \$4M

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ļ	SURFACE WATER Q	UAI	LITY ACTIONS AND S	STR	ATEGIES			
Reduce livestock impacts (CAFOs) 5.2d	Improve understanding of fate and transport of various contaminants Continue to assist landowners to implement conservation plans and BMPs		Assess local stream and river bank activities that could impact water quality and work with the landowners to implement water quality improvement practices. Continue to follow- up w/ nutrient management in Livestock Prog. Implement water quality improvement programs identified by the TMDL		Follow up w/ nutrient management in Livestock Program				BCD	
	Have affected landowners within NYCD in compliance w/ AFO / CAFO regulations by 2009		Staff attend training sessions and share info w/ NYCD board for dissemination to public. Educate affected landowners about AFO / CAFO regs and responsibilities						NYCD	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ę		UAI	LITY ACTIONS AND S	STR	ATEGIES			
Reduce livestock impacts (CAFOs) 5.2d			Develop technical and financial assistance programs Provide technical and financial assistance to affected landowners						NYCD	
	Improve understanding of fate and transport of various contaminants Assist landowners to implement conservation plans & BMPs		Continue to follow- up with nutrient management in the Livestock program		Lower concentrations of contaminants in irrigation return flows by 2011				SYCD	
	Sponsored E-Coli genetic typing to identify sources	x	More funding & method of quantifying results						SCWRC&D	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4	·	ç		UAI	LITY ACTIONS AND S	STR	ATEGIES			
Reduce livestock impacts (CAFOs) 5.2d	Livestock Nutrient Management Program Inspect dairies and permitted CAFOs, respond to livestock related complaints, coordinates with Ecology on CAFOs and complaint response		Track implementation actions Enforcement Actions: WSDA does track enforcement actions and inspection activity so this information could be reported periodically		Ongoing		Ongoing		WDOA	Livestock Nutrient Manage- ment Prog. Is funded for one inspector for east side. CDs receive funding for some TA and planning for livestock operations
	Seek funding for research efforts & work w/ landowners to implement BMPs & projects that reduce livestock impacts (CAFOs): Nutrient management BMP for reduced CAFO & dairies waste management		Ongoing technical support of BMP programs		Field investigation				WSU	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ç		UAI	LITY ACTIONS AND S	STR	ATEGIES			
Reduce other impacts to prevent / mitigate ag impacts 5.2e	Ongoing "Surface Water Monitoring Program for Pesticides in Salmonid Streams" associated crop mapping and application practices		Intensive monitoring March through Sept. for pesticide residuals in Marion Drain, Spring Creek & Sulfur Creek				Information used by EPA for re-registration of pesticides		WDOA	W/ EPA. Ecology (Monitoring) Kirk Cook, WDOA, Natural Resources Section \$2M/ Bi State Funding, MTCA
			CAO setback requirements for aquatic resources. Ag. Extension Programs for small farmers, open space taxation programs.		Expansion to targeted small farmers or non-ag users (parks, ball fields, golf courses)				Benton County	Partially funded
SURFACE WATE	ER QUALITY: PREVEN	IT /	MITIGATE STORMW	AT	ER IMPACTS					
Plan/implement municipal stormwater runoff controls 5.3a	NPDES permit issued, joint stormwater task force agreements		Develop stormwater program to meet requirement of Eastern WA Stormwater management Manual		Regional stormwater program in place				Yakima County	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		Ş		UAI	LITY ACTIONS AND S	STR	ATEGIES	_		
Plan/implement municipal stormwater runoff controls 5.3a	Manage stormwater in unincorporated areas consistent with surface water quality strategy				Develop stormwater program to meet requirement of Eastern WA Stormwater management Manual				Benton County	Partially funded
			Design subdivisions to meet future requirements		Ongoing Meet 10,000 population threshold stormwater permit requirements by 2010				City of Grandview	
	NPDES		Regional SW management utility Oct 2007 ordinance		Public education		Cleaning & permitting connected systems		City of Sunnyside	
	Ongoing – interim SW program – Clean, inspect & assess existing infrastructure		Permit to be issued by Ecology Jan 07. Review plan w/ value engineering study to be completed Jan 07		Develop joint utility w/ County in accordance w/ Ecology permit compliance schedule		Continue implementation of prog.		City of Yakima	
	Ongoing coordination w/ City of Sunnyside: Planning and implementing stormwater controls		Plan development Design public education program		Inventory inlets Administer public ed program		Other implementation		RSBOJC (RID SVID)	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		Ş		UAI	LITY ACTIONS AND S	STR	ATEGIES			
Plan/ implement municipal stormwater runoff controls 5.3a	Work with cities of Richland, Kennewick, & West Richland on stormwater discharges to canals and drains and storage drainage to irrigation canals		Inventory all drains & canals						KID	
Plan/implement industrial	See actions under 5.3a								Yakima County	
stormwater runoff controls 5.3b	See actions under 5.3a								Benton County	
					Inspect industries year 2010+		Ongoing		City of Grandview	
			Coordinate management of city discharge to SVID drains				Post- construction inspections		City of Sunnyside Partner w/ SVID	
	Ensure all industries are permitted		Compliance review as part of stormwater management plan		Permit requirement – 3 rd year				City of Yakima	
	Member regional SW policy group		Participating in regional funding study Oct/Nov 2007 decision on regional utility		Implementation		Implementation		City of Moxee	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4 SURFACE WATE	R QUALITY: PREVEN				LITY ACTIONS AND S		ATEGIES			-
	General permit		Ongoing		Ongoing		Ongoing		Ecology	
Control impacts of gravel mining 5.4 a	Provide technical review & assistance to County planning and WDNR gravel mining permitting and reclamation efforts (Habitat Team)		Ongoing						WDFW	
	See actions listed under 5.7a								City of Yakima	
SURFACE WATE Improve recreational use management 5.5a	Respect the River Program	JT /	MITIGATE RECREAT Summer season contact ranger for information and enforcement of low impact camping	101	N IMPACTS				USFS	
	R QUALITY: SUPPOR	RT /		DUF	RCE POLLUTION CON	ITR	OL PROGRAMS			
Upgrade wastewater facilities 5.6a	Intertie w/ Yakima sewage treatment plant		Waste water interceptor line to connect to Yakima STP Start: Feb 07 Complete: Aug 07 Terrace heights Sewer Dist. Complete PS: Dec 07		Use of "old" STP for pre-treatment of expanded/new industry				City of Moxee	
	Expand drying beds		Obtain \$ for feasibility study						City of Mabton	Local \$

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ę		UAI	LITY ACTIONS AND S	STR	ATEGIES			
Upgrade	\$14 M wastewater treatment plant upgrade		Ongoing operation & maintenance		Ongoing operation & maintenance		Ongoing operation & maintenance		City of Grandview	(20-yr capacity)
wastewater facilities 5.6a	Upgraded to meet ammonia de- nitrification & CL2 (uv) limits in discharge to Sulfur Creek Wasteway		Complete Mar 07						City of Sunnyside	
	Construction ongoing for update of facilities		Completion Dec 07		Update facilities plan for next round of improvements 2009 Begin construction 2011				City of Yakima	
Accommodate service area	Wastewater expansion at 75% of capacity		Annexation area expansion		Ongoing		Ongoing		City of Mabton	
growth to maintain point source pollution control program 5.6b	Expansion with development		208 unit subdivision Phase II expansion Feb – Dec 07		Urban area growth expansion & future annexations				City of Moxee	
	Expansion of collection system w/ development		Ongoing		Ongoing		Ongoing		City of Grandview	
	Accommodate growth w/ existing upgrade				Accommodate growth w/ future facilities plan update				City of Yakima	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4	·	ę		UAL	LITY ACTIONS AND S	STR	ATEGIES			
SURFACE WA	TER QUALITY: IMPROV	Έ II	NTERAGENCY COOF	RDI	NATION					
Improve interagency	Support existing WQ monitoring Group		Facilitate Yakima Basin WQ monitoring group annually or as needed						CA	
coordination 5.7a	Support sub-basin TMDL Work Groups		Participate in TMDL sub-basin forums						СА	
	Central Pre-mix gravel mine relocation and associated USBR Yakima Reach study w/ levee set- back		Meetings to coordinate planning		Resolve city outfall issues for inclusion in 2009 Facilities Plan update				City of Yakima	
			Use the current Cowiche Creek Tributary Team as a forum to share info, seek input, etc						NYCD	
	Develop proactive strategies to make non-local decision making processes more realistic for local landowners Showcase district progress		Maintain contact with legislatures		By the end of 5 years, we will have at least maintained current local control of resource management				SYCD	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		Ş	SURFACE WATER Q	UAI	LITY ACTIONS AND S	STR	ATEGIES			
Improve	Participate in interagency workgroups and technical advisory committees		Conduct annual meetings with cooperators and agencies						USFS	
interagency coordination 5.7a	See 3.5b								WDFW	
	Participate								Benton & Yakima Counties, SYCD	
SURFACE WATH Identify projects and seek funding for water quality enhancement actions 5.8a-d	ER QUALITY: IMPROV Identify and seek funding for WQ enhancement	/ <u>E L</u>	NDERSTANDING OF Track development of TMDLs in Yakima Basin		ATERSHED PROBLEI	<u>MS</u>	AND SOLUTIONS		CA	
Improve cause – effect understanding to improve understanding	Lower Yakima River TSS & DDT TMDL		Ongoing		Ongoing		Ongoing		Ecology	
of watershed problems & solutions 5.8a	Granger Drain Coliform TMDL DIP 1/2003		Ongoing		Ongoing		Ongoing		Ecology SCWRC&D	
	Teanaway TMDL DIP 2/2003		Ongoing		Ongoing		Ongoing		Ecology	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ç	SURFACE WATER Q	UAI	LITY ACTIONS AND S	STR	ATEGIES			
Improve cause- effect understanding to improve understanding	Upper Yakima River Basin suspended sediment, turbidity and organochlorine pesticide TMDL DIP 10/2003		Ongoing		Ongoing		Ongoing		Ecology	
of watershed problems &	Naches River temperature TMDL		Ongoing		Ongoing		Ongoing		Ecology, USFS	
solutions 5.8a	Wilson Creek subbasin bacteria TMDL		Ongoing		Ongoing		Ongoing		Ecology	
	Selah Ditch multiparameter TMDL		Ongoing		Ongoing		Ongoing		Ecology	
	Yakima area creeks fecal coliform TMDL		Ongoing		Ongoing		Ongoing		Ecology	
	Yakima watershed toxins TMDL		Ongoing		Ongoing		Ongoing		Ecology	
	Conduct lower Yakima River Eutrophication Study		Staff work with partners in researching and developing methods of river and stream WQ improvement		Complete study				BCD SYCD	CCW grant
	Identify methods to bring rivers and streams into compliance		Work to secure funding to improve the water quality in those streams and rivers that are of concern						BCD	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		Ş		JAI	LITY ACTIONS AND S	STR	ATEGIES			
Improve cause/ effect understanding	Assist Ecology in		Identify WQ issues that will lead to implementation of corrective action						NYCD	
to improve understanding of watershed problems & solutions 5.8a	developing and implementing Local Tributaries Fecal TMDL process		Encourage Ecology to be specific (i.e., DNA) in identifying fecal sources						NYCD	
	Participate in TMDL development, monitoring and compliance		Investigate and substantiate local findings to maintain local control of resource management						SYCD	
	Cooperate with WQ monitoring w/ SYCD								USBR	
	Cooperate with Feasibility Study and university research programs		Ongoing						USFS	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ę		JAI	LITY ACTIONS AND S	STR	ATEGIES			
Improve cause/ effect understanding to improve understanding of watershed problems & solutions 5.8a	Continue to study cause and effect relationships and monitor aquatic habitat conditions through our science programs, local biologist, and through cooperative partnerships (e.g., YBFWRB, YKFP, YTAHP, SOAC, etc.) Continue to provide technical review and assistance to others that are researching cause and effect relationships (Habitat Team, Fish Program, TAPPS, Habitat Science Teams)		Ongoing						WDFW	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ę		JAI	LITY ACTIONS AND S	STR	ATEGIES			
Improve cause/ effect understanding to improve understanding of watershed problems & solutions 5.8a	Overview of agricultural chemical transport study approach to watershed mass budgets. A journal article looking at mass budget of chemical transport in select agricultural systems in the US including Granger Drain Basin		Journal article due Oct 07						USGS	
Improve problem / solution	Provide education to the public / landowners on		Identify WQ issues that will lead to implementation of corrective action						NYCD	
definition to improve understanding of watershed problems &	issues related to WQ (i.e., causes, solutions, incentives, etc.)		Use Cowiche Creek Tributary Team as a forum. Utilize NYCD outreach program						NYCD	
solutions 5.8b	Have all affected landowners w/in NYCD's areas in compliance w/ AFO/CAFO regs		Attend training sessions and share info w/ NYCD board						NYCD	
	Participate in TMDL development, monitoring and compliance								SYCD	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ç		UAI	LITY ACTIONS AND S	STR	ATEGIES			
Improve	See actions listed under 5.8a								WDFW	
problem/solution understanding 5.8b	Environmental Setting report describing Granger drain study area		Published Aug 2007						USGS	
Expand monitoring activities to improve understanding of watershed problems and solutions 5.8c	Long-term monitoring of conductivity, fecal coliform, flow, ammonia, NO3+2, OP, TP, DO, pH, temp., barometric pressure, TSS, TPN, turbidity		Monthly monitoring		Monthly monitoring		Monthly monitoring		Ecology	Resource limited (Yakima R near Cle Elum, at Nob Hill, at Kiona)
	Effectiveness monitoring for the Upper Yakima suspended sediment, turbidity and organochlorine pesticide TMDL								Ecology	
	Long-term monitoring of major canal diversions and mouths of major irrigation return drains		Monitor every other week during irrigation season (weekly @ Granger Drain). Monthly during non- irrigation season						RSBOJC	
	Monitor artificial wetlands treatment effectiveness		Monitor every other week						RSBOJC	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		S		UAI	LITY ACTIONS AND S	STR	ATEGIES			
Expand monitoring activities to improve understanding	Monitor NPDES permit compliance		Monitor during treatment. Generally one or more waterways are treated each week from late May to early Sept.						RSBOJC	
of watershed problems and solutions 5.8c	Identify rivers and streams that do not meet the Ecology water quality standards								BCD	
	Establish baseline data for these streams and rivers		Work to secure funding to monitor those that do not meet Ecology standards						BCD	
	Secure funding to monitor and improve the WQ in rivers & streams that are of concern		Evaluate temperature in the Yakima River adjacent to Horn Rapids Park before planning riparian buffer (spring 06)		Monitor temperature after planting				BCD	
	Evaluate water quality for salmonid suitability		Twice monthly except continuous temp monitors						NYCD	
	Support basin-wide monitoring activities		Conduct water quality monitoring workshop		Follow up water quality monitoring workshop				SYCD	
	See actions listed under 5.8a								WDFW	
	Reclamation lab		Ongoing		Ongoing		Ongoing		USBR	\$20,000/yr lab

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ç		UAI	LITY ACTIONS AND S	STR	ATEGIES			
Expand	River operations – Monitor ambient temp, Q		Real time						USBR	
monitoring activities to improve	FS – Model development		Temp: daily Sediment: seasonal						USBR	
understanding of watershed problems &	Long-term flow monitoring		Monitor every 6-8 weeks 4 sites are real time						USGS	
solutions 5.8c	Lower Yakima River Eutrophication Study		Continuous: every 15 minutes Discrete: intermittent						USGS	
	Develop temp. model for Yakima and Naches Rivers								USGS	
	Monitor ambient stream temperature		Continuous monitoring June – October		Ongoing				USFS	
	Forest plan compliance in cooperation w/ Yakama Nation		Monitor fine sediment in spawning gravels in late summer annually		Ongoing		Identify projects or management actions to stabilize or reduce levels of fine sediment		USFS	
Develop a public education program	Establish a forum as required to develop a public education program								СА	
addressing surface water quality 5.8d	SYCD facilitation of WQ Monitoring Group (Grant requirement to end)		Facilitate/Build on WQ Monitoring Group or establish new forum						СА	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		ę		UAI	LITY ACTIONS AND S	STR	ATEGIES	_		
Develop a public education program	Develop education program as component of Stormwater / NPDES program								Yakima County	
addressing surface water quality 5.8d	See actions listed under 5.8b								NYCD	
	Statewide education program on nutrient management BMPs		Ongoing		Ongoing				WSU	
SURFACE WATE	ER QUALITY: ENSURE	Q	JALITY STANDARDS	RE	FLECT NATURAL RE	GIC	ONAL CONDITION	S		
Refine water temperature criteria to ensure water	Investigate water temperature and regional conditions and compare to natural condition								Ecology	
quality standards reflect natural regional conditions 5.9a	Assist Ecology in development & implementation of Naches River Temp TMDL process		Identify WQ issues that will lead to implementation of corrective actions by 2007						NYCD	
	Participate in TMDL process for 303(d) listings on National Forest lands		Naches temperature TMDL		Ongoing		Adjust 303(d) listings to recognize natural conditions		USFS	

,Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.4		Ş	SURFACE WATER Q	UAI	LITY ACTIONS AND S	STR	ATEGIES			
Define background turbidity levels	Seek funding for study to better define background turbidity levels								Ecology	
to ensure WQ standards reflect natural regional conditions 5.9b	150K/year		150K/year		150K/year		150K/year		RSBOJC RID & SVID Funding USBR Nutrient testing	
SURFACE WATE	R QUALITY: MINIMIZ	ΈW	ATER RESOURCE II	MP	ACTS ON QUALITY				1	
Improve surface water resources project operations to minimize water	Implement conservation plan with secondary benefits to improve instream flows & water quality		See project list #3.2b						NSID	
resource impacts on quality 5.10a	Install SCADA canal flow control systems to reduce overflows to wetland and other areas from ponds supplying LIDs								KID	
Assess ground water impacts on surface water 5.10b	Interact with other agencies to compile relevant data		Communicate with other agencies to collect ground water information				Determine ground water contribution to surface water quality		SYCD BCD	
					Possible programmatic focus				Ecology	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.5		GR	OUND WATER QUAL	LIT	Y ACTIONS AND STR		EGIES			
GROUND WATE	R QUALITY			-				-		
Information clearinghouse – ground water quality 6.0	Provide watershed information as requested								СА	
Ground water quality management 6.0	Review water supply plans for consistency w/ WMP		Ongoing						СА	
Assist in developing detailed ground	Done in Water System Plan								WDOH	
water quality management strategies 6.0	May be able to assist & provide comments								BFHD	
	R QUALITY: IMPROVI	ΕPL	JBLIC UNDERSTAND	DIN	G AND AWARENESS	OF	DRINKING WATE	R IS	SSUES	
Improve public understanding and awareness of drinking water issues 6.1a-d	Establish forum as required to develop education program for groundwater quality								СА	
Provide outlets for ground water	Continue district newsletter with information updates		Include articles in newsletter related to GW quality						BCD SYCD	
protection information 6.1a	Provide information to well owners								BFHD	
	Interact with media on domestic water quality								BFHD	
	Provide information on website <u>www.doh.wa.gov/</u> <u>ehp/dw</u>								WDOH	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.5		GR	OUND WATER QUAL	ידו_	Y ACTIONS AND STR	AT	EGIES			
Develop ground water protection program for schools 6.1c	An educator provides water quality programs								BFHD	
GROUND WATE	R QUALITY: ASSESS	SU	SCEPTIBILITY OF GR	ROL	JND WATER SUPPLIE	S	TO CONTAMINAT	ION		1
Conduct level I risk	Active		Member of regional update group		Update plan		Update plan every 5 years		City of Yakima	
assessments to assess susceptibility of groundwater	Level 1 assessment done in 2005	x							Nile Valley Community Church	
supplies to contamination	May be able to provide input								BFHD	
6.2a	Done in the Water System Plan (Currently required for Group A systems under Sampling Procedures per WDOH requirements for group As)								WDOH	
Conduct level II risk assessment	Active		Member of regional update group		Update plan		Update plan every 5 years		City of Yakima	
6.2b	See 6.2a								WDOH	
Produce regional maps showing results of risk assessment 6.2d	Done in 2005	x							Nile Valley Community Ch.	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.5					ACTIONS AND STR					
	R QUALITY: IMPROVE	E AI	BILITY TO DETECT A	ND	MONITOR IMPACTS	ТО	GW SUPPLIES			
Evaluate the availability and usefulness of existing ground water quality monitoring data 6.3a	Convene forum to improve the ability to detect and monitor impacts to groundwater supplies								СА	
Establish/ facilitate short- term monitoring	Monitoring		Metering to begin in 2007						Nile Valley Community Church	
to determine baseline conditions of ground water supplies 6.3b	Assist with required monitoring (Currently required for Group A systems under Sampling Procedures per WDOH requirements for group As)								WDOH	
Establish or facilitate long- term monitoring	Assist with information								BFHD	
approach to detect impacted ground water supplies 6.3c	Assist with monitoring See 6.3b								WDOH	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.5		GR	OUND WATER QUAL	_IT'	Y ACTIONS AND STR	AT	EGIES			
Establish or facilitate long- term monitoring approach to evaluate the performance of implemented management strategies 6.3d	Assist if staff is available								BFHD	
Analyze data collected during monitoring	Facility/project specific		Ongoing		Ongoing		Ongoing		Ecology	
programs 6.3e	Assist if staff is available								BFHD	
	Assist to analyze data								WDOH	
GROUND WATE	R QUALITY: IMPROVE	ELC		OT	ECTION PROGRAMS					
Manage/ enforce wellhead protection prog. requirements for	Establish forum		Coordinate w/ water purveyors' updates to water plans & wellhead protection programs						CA	
all Group A public water systems 6.4a	Review comp water plans for wellhead protection		Ongoing						СА	
	Water System Plans								WDOH	
	Plan approved by WDOH 2001	х	Public education of citizens in wellhead protection areas		Ongoing		Ongoing		City of Grandview	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.5		GR	OUND WATER QUAL	ידו_	ACTIONS AND STR	AT	EGIES			
	Posted entrances								City of Grandview	
Manage wellhead protection program 6.4a	Wellhead Protection Plan (WHP) approved by WDOH	x	Maintain WHP programs as part of Group A system requirements						City of Mabton	
	Maintain approved plan	x	Public education of citizens in wellhead protection areas		Ongoing		Ongoing		City of Moxee	
			Booth at fair		Ongoing		Ongoing		City of Moxee	
	Member regional wellhead protection committee		Educate citizens in protection areas		Ongoing		Ongoing		City of Moxee	
	In place	х	W/ new #12 in 2008		Plan update 2010				City of Sunnyside	
	Active		Member of regional update group		Update plan		Update plan every 5 years		City of Yakima	
	In place. Contingency plan: drill new well								Nile Valley Community Church	
Encourage Group B public water systems to voluntarily establish a wellhead protection program 6.4c	Continue to request								BFHD	

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Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.5		_		_	ACTIONS AND STR	_				•
GROUND WATE	R QUALITY: MINIMIZE	IM	PACT OF LAND USE		I SUPPLIES WITH TE	CH	NICAL MANAGEM	EN	TSTRATEGIES	
Identify land use activities and contaminants to be addressed w/ technical management strategies 6.5a	GW data base assessment and analysis of WDOH, USGS and Ecology GW monitoring data		Annual report for comparison of data w/ EPA Human Health Advisory Levels						WDOA	W/WDOH, Ecology, USGS Kirk Cook, WDOA, Natural Resources Section
	Associated ground water benefits w/ surface water (see 3.2d)								WSU	
Select and implement technical management strategies 6.5b	Associated ground water benefits w/ surface water (see 3.2d)								WSU	
GROUND WATE	R QUALITY: CLEAN U	ΡS	OURCES OF GROUN	ND ۱	WATER CONTAMINA	TIO	N			1
Work with responsible parties to clean up sources of ground water contamination 6.6					Possible programmatic focus				Ecology	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.5		GR	OUND WATER QUAL	_IT\	ACTIONS AND STR	AT	EGIES			
Evaluate need for independent clean-up actions on sources of	Perform some assessments on Ecology's behalf								BFHD	
ground water contamination 6.6b	Joint investigations w/ Ecology involving pesticides. Not involved in actual clean-up activities								WDOA	

Action	Ongoing Actions and/or Strategies	B B B B B B B B B B B B B B B B B B B	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6		FISH HABITAT EN	IHA	NCEMENT ACTIONS	AN	D STRATEGIES			
Support habitat enhancement 7.0	Provide watershed information as requested	Coordinate & exchange information w/ YBFWRB						YBFWRB, CA	
	Support existing forums	Coordinate with YBFWRB, USBR and others						СА	
	Support implementation of YBFWR Plan & YBSR Plan							Yakima County	
	Provide technical review & assistance to identify enhancement projects (YBFWRB, MCRFEG, TYAHP, YRABWEP, YKFP, etc.) and where applicable implement & manage habitat restoration and enhancement projects (Habitat Team & Fish Program)	Ongoing						WDFW	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Support habitat enhancement 7.0	Administer and enforce Washington's Hydraulic Code to protect existing habitat and mitigate for lost habitat and fish life for projects that influence the river bed and flow of state waters and that impact fish life. Provide technical review & assistance to other permitting agencies (Habitat Team & Enforcement Program)		Ongoing						WDFW	
HABITAT: PROT	ECT EXISTING HIGH	ຊຸບ	ALITY HABITATS							
Road / trail impact management to	Identify sediment sources and fish passage barriers		Annual road/trail condition surveys		Plan improvement projects		Removal of significant passage barriers		USFS	
protect existing high-quality habitats 7.1a	Work to remove barriers (culverts) associated with roads								SCWRC&D	

Action	Ongoing Actions and/or Strategies	C Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6		FISH HABITAT EN	IHA	NCEMENT ACTIONS	AN	D STRATEGIES			
Watershed headwaters protection and projects to protect existing high-quality habitats 7.1b	Support of acquisitions of Tieton Checkerboard, others. Forest resource lands protection under current GMA comp plan. Existing CAO & SMP protections	See listed Yakima County land regulation strategies (7.2d, 7.5a)		See listed Yakima County land regulation strategies (7.2d, 7.5a)		See listed Yakima County land regulation strategies (7.2d, 7.5a)		Yakima County	
	Support YBFWRB and YBSRB and proposed actions to protect high quality habitats							Benton County	Funded
	Grants from SRFB	ESA, anadromous salmon						SCWRC&D	
	Manage wilderness areas to protect water quality and aquatic resources	Monitor impacts of recreation use		Identify areas needing restoration		Develop restoration projects and adjust management to mitigate impacts from high use		USFS	
		ROMOUS FISH MIGRA	TIC	N CORRIDORS		-			
Flow related actions: protect/ enhance anadromous fish migration corridors 7.2a	Trust program in association with Water Transfers Work Group, YRBWEP & YTAHP	Ongoing		Ongoing		Ongoing		Ecology	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES	1		
Flow related actions to protect/enhance anadromous fish migration	Storage feasibility study EDT & Wetted perimeter analysis (5 area habitat improvement)		Ongoing		Ongoing		Ongoing		USBR	
corridors 7.2a	Acquisition program for priority reaches		Ongoing		Ongoing		Ongoing		USBR	YRBWEP funding
	Continue to participate and provide technical review and assistance as projects are proposed and implemented and, where applicable, implement and manage in-stream flow restoration projects (Water Team & Habitat Team)		Ongoing						WDFW	
	WDOT – Naches Reach Analysis & Mgmt Plan (same as Lower Naches coordination Project)								City of Yakima	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Flow related actions to protect/enhance anadromous fish migration	Administration & oversight of Yakima Tributary Access & Habitat Program (YTAHP)		Implement 07 Scope of Work		Continue through 09		Seek additional funds		SCWRC&D	Funded to 09 W/ BPA, WDFS, CDS & LAND- OWNERS
corridors 7.2a	Screening		Design & install technically approved intake screens						SCWRC&D	
Water quality actions to protect/enhance	Water Star Grass Abatement in lower Yakima River		Secured funding to test removal options	x	Secure additional funding		Secure additional funding		BCD	\$30K SRB funding
anadromous fish migration corridors 7.2b	Feasibility work on removal of Water Stargrass in mainstem Yakima								SCWRC&D	
	TMDL and permitting programs		Ongoing		Ongoing		Ongoing		Ecology	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	ID STRATEGIES			
Passage barrier improvements to protect/ enhance anadromous fish migration corridors 7.2c	Continue to work w/ co-managers, landowners & others to identify passage needs. Continue to participate & provide technical review & assistance as projects are proposed & implemented (e.g., YTAHP, Fish Passage TWG, Storage Dam Passage Team) Where applicable, implement & manage passage & access restoration projects (Habitat Team, Fish Program, TAPPS)		Ongoing						WDFW	
	Lower Naches River Coordination Project See report of Sept 2005		Water right transfer & Ranney well relocation (transferred 2000 gpm to Kissel Well)	x	Drill New well				City of Yakima (w/ Ecology approval)	
					Fruitvale & Old Union Canal Co Diversion relocation				City of Yakima	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Passage barrier improvements			Participate w/ RSBOJC						SVID	
to protect/ enhance anadromous fish migration corridors 7.2c	Sulphur Creek Wasteway passage barrier project		Obtain permits for fish barrier, end of Sulphur drain \$346,000 Construction 2008		Fish barrier, end of Sulphur Drain (if delayed)				RID	
			Design 2007 Construction 2008						RSBOJC	YRBWEP: \$200K RSBOJC: &100K
	See: Columbia River pump exchange / Columbia River New Water Right (3.2a) This would improve instream flows from Chandler Diversion to the Columbia River								KID	

Action	Ongoing Actions and/or Strategies	B B B B B B B B B B B B B B B B B B B	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6		FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			-
Passage barrier improvements to protect/ enhance anadromous fish migration corridors 7.2c	Assist all affected landowners w/ compliance issues related to ESA and state requirements regarding fish species on privately held lands w/in geographic priority areas	Provide technical assistance and financial incentives to provide for screened diversions, removal of barriers and to improve habitat				Fully implement Tributary Team Plans, appropriate sections of Yakima sub- basin Plan, develop incentive programs, and technical assistance programs		NYCD SCWRC&D	
	Barrier removal to allow fish passage							SCWRC&D	
	Reservoir dam passage study (tech feasibility study)	Complete FS spring 2008		EIS to follow reintroduction plan				USBR	
	Coordinate with fish co-managers and others on comprehensive fish plan	Coordinate with fish co-managers and others on comprehensive fish plan		W/ environmental (SEPA/NEPA) documentation - 2009				USBR	
	Other Roza Dam – passage improvement / enhancement	Final design - 2007		Budget 2010 (?)				USBR	Funding: BPA & others

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Passage barrier improvements 7.2c	YTID diversion dam – passage improvement / enhancement		Bid 2007 Construction 2007/8						USBR	Funding: USBR
	Amon Creek Wasteway issue resolution on barrier v passage		Assessment & Planning		Future design		Future construction		USBR, KID	
Regulate land use/update land use regulations to protect and enhance anadromous fish migration corridors 7.2d	Protect existing habitat using CAO & SMP		Updates to CAO (2007) and SMP (2008)		Do outreach to inform the public and property owners re the value of, and the state of, the resources and the "why" of protective measures/regs. Integrate the outreach with the outreach program activities being done by the YBWRMP & the YBFWRB				Benton County	Partial funding re CAO and SMA updates

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			-
Regulate land use/update land use regulations to protect and enhance anadromous fish migration corridors 7.2d	Existing CAO and SMP in effect that protect habitat functions		Updates to CAO and SMP to be finalized in 07. Regulatory consistency improved by integrating CAO & SMP reqs. to be similar, and by adopting regional CAO & SMP for both cities and county. Updated regs. use science to protect habitat.		Review future development for compliance with CAO & SMP to protect existing habitat		Regular updates to regs to incorporate new science		Yakima County	Funded
	Yakima County Naches River Flood Hazard Management Plan		Coordinate with county planning						City of Yakima	
	Implement forest plan standards for riparian areas		Ongoing				Monitor implementation and effectiveness of standards and BMPs		USFS	
	TMDLs		Ongoing		Ongoing		Ongoing		Ecology	
			TMDLs/CWA or 90.48 regulation as necessary		Ongoing		Ongoing		Ecology	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6 HABITAT: ENHAI	NCE DOWNSTREAM F	REA			NCEMENT ACTIONS			MA	INSTEM REACH	S .
Improve instream flow management to enhance downstream reaches and connect associated floodplains in tributary	Storage Feasibility Study See 3.1d.1 (Support w/ land and water acquisition)		See Yakima Basin Storage Feasibility Study 3.1d.1 Round Table confirmation of study criteria	x					USBR	
mainstem reaches 7.3a	Biological assessment ESA effect decision		NOAA / USFWS Agency review		Biological Opinion NOAA / USFWS				USBR	
	Assist all affected landowners w/ compliance issues related to the ESA and state requirements regarding fish species on privately held lands w/in NYCD's geographic priority areas		Provide technical assistance and financial incentives to provide for screened diversions, removal of barriers and to improve habitat				Fully implement Tributary Team Plans, implement appropriate sections of the Yakima Sub- basin Plan, develop incentive programs, and develop technical assistance programs		NYCD SCWRC&D	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			•
Improve instream flow management to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3a	Support improvements: Trust program Resource dependent		Ongoing		Ongoing		Ongoing		Ecology	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES	I		
Improve off- channel connectivity to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3b	Continue to work with the co- managers, landowners and others to identify needs and opportunities for connectivity. Continue to participate and provide technical review and assistance as projects are proposed and implemented (e.g., YBFWRB, YKFP, YTAHP, etc.). Where applicable implement and manage off- channel connectivity and floodplain restoration projects (Habitat Team)		Ongoing						WDFW	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6	•		FISH HABITAT EN	HAI	NCEMENT ACTIONS	AN	D STRATEGIES			•
Improve off- channel connectivity to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3b	Update land use regulations within jurisdictional area Reduce violations of existing ordinances		Updates to CAO and SMP to be finalized in early 07. To the extent practical, integrate science from the WP, SRP and SBPs		Initiate focused public outreach to reduce violations of existing ordinances. Adopt comp. plan policies & amendments to existing CAO & SMP ordinances that enable creating of a "package(s)" of complementary land use controls / options/ incentives that can be applied in conjunction w/ tools/funding available through the YBFWRB, YBWRMA, RFEG, BPA, BCD, etc. to projects that involve critical resources and LFs identified in the SBP & SRP at the time of site- planning review. (See spreadsheet, Appendix B-2, for further details)				Benton County	Partial funding re CAO & SMA updates

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Improve off- channel connectivity to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3b	Existing Yakima County-wide Flood Control Zone District (FCZD) projects Douglas Wrecking Yard, Lower Naches Coordination, Gap to Gap Levee Pullback, Ahtanum Mission, etc. Project assistance and acquisition thru Co. Non- Regulatory Program.				Future Flood Control Zone District Projects - Rambler's Park, Yakima Water Treatment Plant reach, Actions in Wide Hollow Ahtanum CFHMP. Seek funding for implementation of habitat projects with Yakima County as project proponent. Project assistance and acquisition thru Co. Non- Regulatory Program.				Yakima County	FCAAP, SRFB, COE, NOAA W/ LAND- OWNERS, USFS, CD, WDFW, WDOT
	Support implementation of YBFWR Plan YBSR Plan								Yakima County	
	Remove irrigation diversions which may impede off channel habitat and replace with updated structures								SCWRC&D	
Water quality enhancement 7.3c	Support YRBWEP implementation through CAG & YBJB		Ongoing		Ongoing		Ongoing		YTID	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Water quality	Water Star Grass Abatement in lower Yakima River		Secured funding to test removal options	x	Secure additional funding		Secure additional funding		BCD	\$30K SRB funding
enhancement to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3c	Assist all affected landowners w/ compliance issues related to the ESA and state requirements regarding fish species on privately held lands w/in NYCD's geographic priority areas						Fully implement Tributary Team Plans, implement appropriate sections of the Yakima Sub- basin Plan, develop incentive programs, and develop technical assistance programs		NYCD	
	State trust program State non-point plan Resource dependent		Ongoing		Ongoing		Ongoing		Ecology	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Riparian area improvement to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3d	Continue to work w/ co-managers, landowners & others to identify riparian restoration opportunities. Continue to participate & provide technical review & assistance as projects are proposed & implemented (e.g., YBFWRB, YKFP, TYAHP, etc.) & where applicable, implement & manage riparian restoration projects (Habitat team)		Ongoing						WDFW	
	Apply local regs to protect Critical Area resource functions						See 7.3b & 7.4b for County/ cities. For other than "protection:" Livestock fencing program/ incentives. Riparian & floodplain restoration projects		Benton County	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Riparian area improvements to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3d	Assist all affected landowners w/ compliance issues related to the ESA and state requirements regarding fish species on privately held lands w/in NYCD's geographic priority areas		Provide technical assistance and financial incentives to provide for screened diversions, removal of barriers and to improve habitat				Fully implement Tributary Team Plans, implement appropriate sections of the Yakima Sub- basin Plan, develop incentive programs, and develop technical assistance programs		NYCD	

Action	Ongoing Actions and/or Strategies	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6		FISH HABITAT EN	HAI	NCEMENT ACTIONS	AN	D STRATEGIES	T		
In-channel complexity actions to enhance downstream reaches & connect associated floodplains 7.3e	To the extent that local permits, etc. are necessary, the County is supportive	See 7.3b, 7.4b		Work with & through YBRSRB, YBWRA board, non-profits, etc., to assist in identifying locations for such projects and certain land use related logistics for accomplishing them				Benton County	
	See habitat project strategies listed under 7.3b							Yakima County	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
In-channel complexity actions to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3e	Continue to work w/ co-managers, landowners & others to identify restoration opportunities. Continue to participate & provide technical review & assistance as projects are proposed & implemented (e.g., YBFWRB, YKFP, YTAHP, etc.). Where applicable, implement & manage in-channel complexity enhancement projects (Habitat Team)		Ongoing						WDFW	
Other improvements to enhance downstream reaches and connect associated floodplains in tributary mainstem reaches 7.3f	Participate & provide technical review & assistance as projects are proposed and implemented and, where applicable, implement & manage enhancement projects		Ongoing						WDFW	

DIP September 10, 2007 Fish Habitat Enhancement

Implementing the actions on this plan is contingent on finding appropriate funding sources

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
HABITAT: ENH	ANCE DEGRADED BUT	FL	INCTIONAL AQUATIO	C H	ABITATS					
Improve	See # 7.2a								WDFW	
instream flow management	See actions listed under #7.3a								USBR	
7.4a	Biological assessment ESA effect decision		NOAA / USFWS Agency review		Biological Opinion NOAA / USFWS				USBR	
Improve off-	See # 7.3b								WDFW	
channel connectivity	See # 7.3b								Benton County	
7.4b	See # 7.3b								SCWRC&D	
Water quality	See actions listed under 7.3c								BCD	
enhancement 7.4c	See strategies listed under 7.3c								NYCD	
	TMDLs		Ongoing		Ongoing		Ongoing		Ecology	
Riparian area improvement	See strategies & actions listed under 7.3d								WDFW	
7.4d	See actions listed under 7.3d								Benton County	
	Habitat enhancement at WDFW Byron Ponds with treated wastewater effluent		Pond expansion to east Game Pond						City of Grandview	\$2 M NAWCA grant w/ WDFW
	Effluent delivery – 1998 Ducks Unlimited funded pipeline								City of Grandview	\$40,000 pipeline

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			-
	See strategies listed under 7.3d								NYCD	
Riparian area improvements to enhance degraded but functional aquatic habitats 7.4d	Enhance riparian conditions associated with barrier and screening projects and projects for bank stabilization and shading								SCWRC&D	
	Identify and implement restoration projects						Implement projects and management actions to mitigate impacts from increased recreation use		USFS	
In-channel complexity	See # 7.3e								Benton County	
actions to enhance degraded but functional	See habitat project strategies listed under 7.3e				See habitat project strategies listed under 7.3e				Yakima County	
aquatic habitats 7.4e	See actions & strategies listed under 7.3e								WDFW	
Other improvements 7.4f	See actions & strategies listed under 7.3f								WDFW	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6 HABITAT: PROT	ECT EXISTING HABIT	AT			NCEMENT ACTIONS		D STRATEGIES			
Regulate land use to protect existing habitat conditions from	See # 7.2d								Benton County	Partial funding re CAO and SMA updates
further degradation 7.5a	See #7.2d regarding actions on CAO & SMP regulations								Yakima County	Funded
			Being done as part of critical areas ordinance adoption by county 2007						City of Yakima	
	Assist land occupiers to comply w/ regulatory programs under Ecology, WDNR & WDFW						Continue		SYCD	
	Implement forest plan standards for riparian areas		Ongoing						USFS	
Evaluate/ regulate water use impacts 7.5b	Water Transfer Work Group reviews		Water transfers		Ongoing				USBR	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Evaluate/ regulate water use impacts to	River operations work group		Annually review winter incubation flows/spring migration flows						USBR	
protect existing habitat conditions from further degradation	TMDLs		Ongoing		Ongoing		Ongoing		Ecology	
7.5b	Continue to support & provide technical expertise to groups and programs that evaluate water use impacts. Administer & enforce Washington's Hydraulic Code to help ensure that projects that influence the bed and the flow of state waters do not adversely affect fish life (Habitat Team & Enforcement Program)		Ongoing						WDFW	
Focus on non- point pollution 7.5c			Focus on non-point source pollution Review/comment on proposed habitat projects						CA	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Focus on non- point pollution to protect existing habitat conditions from	Support BCD re agriculture. Control development runoff on-site								Benton County	Funding ??
further degradation 7.5c	Stormwater management study		Development of stormwater program and its capital and educational elements		Source control and monitoring program as component of stormwater NPDES permit requirements				Yakima County	Partially funded
	Provide technical review & assistance to Ecology and other entities to improve water quality		Ongoing						WDFW	
	Design and implement BMPs for all forest management activities		Ongoing				Monitor implementation and effectiveness of BMPs		USFS	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources		
TABLE 4.2.6 FISH HABITAT ENHANCEMENT ACTIONS AND STRATEGIES . HABITAT: IMPROVE WATERSHED-WIDE INFORMATION BASE .												
HABITAT: IMP Improve information base 7.6	ROVE WATERSHED-WI YBSRP completed 2006 Joined YBFWRB 2006 Facilitate public participation, outreach (e.g., at workshops) and dialogue between various local interests, participate w/ YBFWRB & YBWRA. County staff be liaison w/ city staff (Not yet implemented)	x	INFORMATION BASE		If YBWRA board desires, integrate with the YBFWRB's basin-wide integrated public outreach program to bring to the local public and shoreline property owners policy objectives, information/data sets and implementation plans of the WMP & the YBSRP to foster understanding, support & participation				Benton County	Partially funded		
	YBSRP completed Joined YBFWRB 2006 Facilitate County Workshop(s) to develop more detailed habitat enhancement strategies at the county or subbasin level	x	Work in cooperation w/ YBFWRB and others on educational program						Yakima County	Partially funded		

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6	-		FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Improve watershed-wide information	Provide Salmon In The Classroom								SYCD BCD	
base 7.6	Develop & update data management tools (e.g., SHIAPP & EDT) Continue to update/ maintain/ support efforts to maintain existing databases, plans & management tools		Ongoing						WDFW	
Habitat assessment to improve	Water Star Grass Abatement in lower Yakima River		Secured funding to test removal options	x	Secure additional funding		Secure additional funding		BCD	30K SRB funding
watershed-wide information base 7.6a	YTAHP (team) Inventory 280 miles of tribs in Yakima & Kittitas 04	x	Refine database & prioritize actions/ projects						SCWRC&D	
	YTAHP (team) Inventory 280 miles of tribs in Yakima & Kittitas 04		Ongoing monitoring				Seek funding		SCWRC&D	YTAHP (team) Inventory 280 miles of tribs in Yakima & Kittitas 04

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Habitat assessment to improve	Stanford Study		Implement storage feasibility study habitat analysis 12/08						USBR	
watershed-wide information base 7.6a	YRBWEP		Land-water acquisition		\$ need				USBR	
	Feasibility Study – see 3.1d.1								USBR	
	Habitat assessment of Granger Drain								USGS	
	TMDLs		Ongoing		Ongoing		Ongoing		Ecology	
	Continue to assess habitat conditions to the extend funding allows, and leverage this effort through cooperative partnerships with others (e.g., YBFWRB, YKFP, YTAHP, SOAC, etc.) **a fundamental mission component		Ongoing						WDFW	
Monitor aquatic habitats 7.6b	Water Star Grass Abatement in lower Yakima River		Secured funding to test removal options	x	Secure additional funding		Secure additional funding		BCD	30K SRB funding

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6			FISH HABITAT EN	HA	NCEMENT ACTIONS	AN	D STRATEGIES			
Monitor aquatic habitats to	YTAHP (team) Inventory 280 miles of tribs in Yakima & Kittitas 04	x	Refine database & prioritize actions/ projects						SCWRC&D	
improve watershed-wide			Ongoing monitoring				Seek funding		SCWRC&D	
information base 7.6b Continue to aquatic hat conditions to science pro local biolog through cooperative partnership YBFWRB, TYAHP, SC	Continue to monitor aquatic habitat conditions through science programs, local biologist and through cooperative partnerships (e.g., YBFWRB, YKFP, TYAHP, SOAC, etc)		Ongoing						WDFW	
	Flow monitoring		Ongoing						USBR	
	Dam passage habitat		Assessment for potential benefits Complete FS – 2008		Complete EIS – 2009				USBR	
	Maintain fish counting facilities		Ongoing		Ongoing		Ongoing		USBR	
	Inventory habitat types with stream survey program		Continue to survey uncompleted streams				Repeat on approx. 20 year cycle		USFS	
	TMDLs		Ongoing		Ongoing		Ongoing		Ecology	

Action	Ongoing Actions and/or Strategies	comp	Immediate Priorities	comp	Mid – Term Actions	comp	Long – Term Actions	comp	Implementing Partner(s)	Possible Funding Sources
TABLE 4.2.6 HABITAT: MEAS	URE THE EFFECTIVE	NE			NCEMENT ACTIONS	AN	D STRATEGIES			
Focus on habitat conditions 7.7a	YTAHP ongoing effectiveness monitoring		Seek funding & refine protocols						SCWRC&D	
	See actions listed under 5.8a								WDFW	
	Monitor effectiveness of enhancement projects		Monitor recently completed projects				Repeat on 5 to 10 year cycle		USFS	
HABITAT: ENSU	RE WATER QUALITY	ANI		RDS	S REFLECT NATURAL	R	EGIONAL CONDIT	ION	NS	
Improve information and criteria 7.8a	Storage feasibility study (Model temperature below reservoirs & in lower river system)		Model flow releases (EDT input): 2008 River operations modeling (improve tool): 2008						USBR	
	Continue to support and provide technical review & expertise to entities and programs that work on water quality standards		Ongoing						WDFW	
	Monitor effectiveness of forest plan standards		Annually monitor selected standards				Adjust standards if necessary		USFS	

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- Yakima Basin Water Resources Agency Mission and Goal Statement, approved 10-19-06.

Water Resource Advisory Committee Members

Last Name	First Name	Representing
Breer	Laurence	Individual
Brown	AI	Greenway Foundation
Brown.	David	City of Yakima
Chaplin	Don	Individual
Clark	Jack	Benton Conservation Dist
Collins	Christine	State Caucus - WA Dept of Health
Conley	Alex	Yakima Basin Fish & Wildlife Recovery Board
DeJournette	Charles	Individual
England	Dave	Individual
Farrell	Bob	Port of Sunnyside
Faulconer	Lee	State Caucus - WA Dept of Agriculture
Freudenthal	Joel	Yakima County
Garrigues	Bill	US Forest Service / Naches Ranger Station
George	Steven	Hop growers of WA / Yakima County Dairy Federation
Halstead	Sandy	Environmental Protection Agency
Hansen	Amber	Individual
Harter	Justin	Naches-Selah Irrigation District
Harves	Michael	Individual
Hayward	Ben	Individual
Honeyford	Jerri	Individual
Jenkins	Gene	Yakima County Farm Bureau
Johnston	Milt	State Caucus - WA Dept. of Natural Resources
Keenhan	Terry	Yakima County
Klarich	Charles	Yakima Basin Storage Alliance
Larrick	Walt	U S Bureau of Reclamation
Martinez	Mario	City of Mabton
McClure	David	Klickitat County
McFeeley	Michael	Individual
Mees	Phil	Benton County
Miller	Allen	Wenas Irrigation District
Monk	Pat	Yakima Basin Joint Board
Newhouse	Jim	South Yakima Conservation District
Ries	Norbert	U S Bureau of Reclamation
Patterson	Dean	Yakima County
Record	Dottie	Yakima County Cattleman Assoc
Roy	Mark	Individual
Schramm	Don	Sunnyside Valley Irrigation Dist
Schuler	Greg	State Caucus - WA Dept Of Ecology
Sonnichsen	Wayne	Individual
Stevens	Bob	WSU
Tobin	Michael	North Yakima Conservation District
Vaccaro	John	U S Geological Survey
Visser	Richard	State Caucus - WA Dept of Fish & Wildlife

Water Resource Advisory Committee Members

Last Name	First Name	Representing
White	Hiram	Individual
Wick	Ann	State Caucus – WA Dept of Agriculture
Willard	Jim	Roza Irrigation District
Williams	Doug	Whistlin' Jack Lodge
Wireman	Ginger	Individual
YBWRA Boa	rd of Directo	rs
Dieker	Rick	Yakima Tieton Irrigation District
Leita	Mike	Yakima County Commissioner
Lover	Bill	Yakima City Council
Oliver	Claude	Benton County Commissioner
Trull	Jim	Roza-Sunnyside Board of Joint Control
VanGundy	Ron	Roza Irrigation District

Implementation Partners and/or Contacts

ENTITY	NAME	PHONE
CITIES		
Benton City (not particpating)	Ronnie Schumate	509-508-3322
Grandview	Cus Ortega	509-882-9213
Granger (not particpating)	Alice Koerner	509-854-1725
Mabton	Mario Martinez	509-391-0086
Мохее	Byron Adams	509-575-8851
Kennewick (not participating)	Bruce Beauchene	509-585-4289
Naches (not participating)	Jeff Ranger	509-653-2647
Prosser (not participating)		
Selah (not participating)	Frank Sweet	509-698-7326
Sunnyside	Jim Bridges	509-837-3782
Richland (not participating)	Pete Rogalsky	509-942-7558
Union Gap (not participating)	Bill Rathbone	509-575-3638
West Richland (not participating)		
Zillah (not particpating)	Bill Hordan, planning Sharon Bounds, city clerk	509-249-1919 509-829-5151
COUNTIES		
Benton County	Phil Mees	509-786-5612
Yakima County	Terry Keenhan	509-574-2311
IRRIGATION DISTRICTS		
Ahtanum ID (not participating)	George Marshall	509-249-0226
Buena ID	Tom Winckler	509-829-6144
Columbia ID	Larry Fox, Mgr Gary Weatherly, Const	509-783-1625 & 509-947-0634c
Kennewick ID	Victor Johnson	509-586-9111 x106
Naches/Selah ID	Justin Harter	509-697-4177 & 653-2574
Roza ID	Wayne Sonnichson	509-837-4151
Roza-Sunnyside BOJC	Don Schramm Wayne Sonnichson	509-837-6980 509-837-4152
Sunnyside Valley ID	Don Schramm	509-837-6980
YTID	Rick Dieker	509-678-4101

Implementation Partners and/or Contacts

ENTITY	NAME	PHONE
CONSERVATION DISTRICTS		
BCD	Jack Clark	509-786-1923
NYCD SYCD	Mike Tobin Marie Zuroske Jim Newhouse	509-454-5743 x5 509-837-7911 509-830-1280
HEALTH DISTRICTS		
Benton-Franklin HD	Rick Dawson	509-582-7761 x255
Yakima HD (not participating)	Gordon Kelly	509-575-4040
STATE AGENCIES		
Ecology	Greg Schuler	509-454-3619
DFW	Richard Visser	509-575-2740 509-925-0963
DNR	Milt Johnston	509-925-1793
DOA	Lee Faulconer Ann Wick	360-902-1804 360-902-2051
рон	Christine Collins	509-456-2457
OTHER ORGANIZATIONS		
Nile Valley Community Church	Craig Norwood	
SCWRC&D	Dave Myra	509-454-5743 x6
WSU	Bob Stevens	509-786-9231
FEDERAL AGENCIES		
USBR	Norbert Ries Walt Larrick	509-575-5848 x203 509-575-5848 x209
USFS	Bill Garrigues	509-653-1442
USGS	John Vaccaro - GW Bob Black - WQ	253-552-1620 253-552-1687

	Be	ento	on Conservation Distr	ict	- Project Lead Respor	nsib	oilities						
	Timelines/Milestones												
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed				
SURFACE WATER QU	JALITY: PREVENT / MI	TIG	ATE AG IMPACTS	l		1		1					
Implement Best Management Practices (BMPs) and projects that improve irrigation management consistent with water quality and habitat strategies 5.2a	 Continue to assist landowners to implement conservation plans and BMPs Continue to promote irrigation improvements 						By 2010, the water quality of the rivers and streams in Benton County will have shown continual improvement in terms of Ecology evaluation standards		W/ LANDOWNERS, ID, USDA, WSU				
Implement BMPs and projects that <u>improve</u> <u>cropland management</u> consistent with water quality and habitat strategies 5.2b	 Improve understanding of fate and transport of various contaminants Continue to assist landowners to implement conservation plans and BMPs 		Assess local stream and river bank activities that could impact water quality and work with the landowners to implement water quality improvement practices		Continue to obtain state and federal funding		By 2010, the water quality of the rivers and streams in Benton County will have shown continual improvement in terms of Ecology evaluation standards		W/ LANDOWNERS, ID, USDA, WSU				

	Be	ent	on Conservation Distr	ict	- Project Lead Respor	sibilities							
	Timelines/Milestones												
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed					
SURFACE WATER QUALITY: PREVENT / MITIGATE AG IMPACTS (CONT.)													
projects that <u>reduce</u> impacts of agricultural	 Improve understanding of fate and transport of various contaminants Continue to assist landowners to implement conservation plans and BMPs 		Asses local stream and river bank activities that could impact water quality and work with the landowners to implement water quality improvement practices			By 2010, the water quality of the rivers and streams in Benton County will have shown continual improvement in terms of Ecology evaluation standards		W/ ECOLOGY, ID, USDA, WDOA, LANDOWNERS					
Implement BMPs and projects that <u>reduce</u> <u>livestock impacts</u> consistent with water quality and habitat strategies 5.2d	 Improve understanding of fate and transport of various contaminants Continue to assist landowners to implement conservation plans and BMPs 		Asses local stream and river bank activities that could impact water quality and work with the landowners to implement water quality improvement practices & Continue to follow-up with nutrient management in the Livestock Program		Continue to follow-up with nutrient management in the Livestock Program	By 2010, the water quality of the rivers and streams in Benton County will have shown continual improvement in terms of Ecology evaluation standards		W/ ECOLOGY, USDA, WDOA, LANDOWNERS					

Benton Conservation District - Project Lead Responsibilities													
Timelines/Milestones													
On-going Strategies and/or Actions	Immediate Priorities	Mid - Term Actions G S Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed							
SURFACE WATER QUALITY: IMPROVE UNDERSTANDING OF WATERSHED PROBLEMS & SOLUTIONS / TMDLs													
Co-lead with SYCD on lower Yakima River Eutrophication Study	Staff work with partners in researching and developing methods of river and stream water quality improvement	complete eutrophication study with SYCD		By 2010, the water quality of the rivers and streams in Benton County will have shown continual improvement in terms of Ecology evaluation standards		W/ SYCD, ECOLOGY, USGS CCW Grant							
	On-going Strategies and/or Actions UALITY: IMPROVE UNE Co-lead with SYCD on lower Yakima River	On-going Strategies and/or Actions and be be be be be be be be be be be be be	Timelines/Milestones On-going Strategies and/or Actions and book and book Mid - Term Actions 3 - 5 Years UALITY: IMPROVE UNDERSTANDING OF WATERSHED PROBLEMS & SO Co-lead with SYCD on lower Yakima River Eutrophication Study Staff work with partners in researching and developing methods of river and stream water quality complete eutrophication study with SYCD	Timelines/Milestones On-going Strategies and/or Actions and bego Immediate Priorities and bego Mid - Term Actions 3 - 5 Years and bego UALITY: IMPROVE UNDERSTANDING OF WATERSHED PROBLEMS & SOLU Co-lead with SYCD on lower Yakima River Eutrophication Study Staff work with partners in researching and developing methods of river and stream water quality complete eutrophication study with SYCD	Timelines/MilestonesOn-going Strategies and/or Actionsa b cImmediate Prioritiesa b cMid - Term Actions 3 - 5 Yearsb c cLong - Term Actions / ObjectivesUALITY: IMPROVE UNDERSTANDING OF WATERSHED PROBLEMS & SOLUTIONS / TMDLsCo-lead with SYCD on lower Yakima River Eutrophication StudyStaff work with partners in researching and developing methods of river and stream water quality improvementcomplete eutrophication study with SYCDBy 2010, the water quality of the rivers and streams in Benton County will have shown continual improvement	Timelines/Milestones On-going Strategies and/or Actions and b and b Immediate Priorities and b Mid - Term Actions 3 - 5 Years and b Long - Term Actions / Objectives and b and b UALITY: IMPROVE UNDERSTANDING OF WATERSHED PROBLEMS & SOLUTIONS / TMDLs Staff work with partners in researching and developing methods of river and stream water quality improvement Staff work with partners By 2010, the water quality of the rivers and streams in Benton County will have shown continual improvement in terms of Ecology evaluation							

	E	Benton Conservation D	istr	rict - Other Responsib	oiliti	ies						
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions Strategies and/or Actions		complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed				
SURFACE WATER RE	SOURCES: EFFICIENCY	, 			1	1						
Work with USBR to implement water use efficiency projects, including establishing agreements, design and construction 3.2a	Identify water conservation practices that assist agricultural, small farm and urban water users	Work with Agency Partners in researching and developing improved methods of water conservation practices such as innovative irrigation implementation, control and scheduling				By 2010, we will increase water conservation practices throughout the county to show a 10% improvement in the amount of water saved, which therefore, would remain in the streams and rivers of the county		W/ USBR-YRBWEP (CAG)				
Continue working with irrigation districts to implement water use efficiency projects through agreements, funding and other actions 3.2b	Identify water conservation practices that assist agricultural, small farm and urban water users	Work to secure funding to implement water conservation practices throughout the county				By 2010, we will increase water conservation practices throughout the county to show a 10% improvement in the amount of water saved, which therefore, would remain in the streams and rivers of the county		W/ USBR, ID, CITY				

	Benton Conservation District - Other Responsibilities												
	Timelines/Milestones												
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed					
SURFACE WATER RE	SOURCES: EFFICIEN	CY (CONTINUED)	1										
Implement water use efficiency projects through agreements, funding and other actions 3.2b (cont.)	Maintain public awareness of programs for on-farm water conservation practices	 Continue district newsletter with information updates Conduct irrigation system efficiency analysis Seek funding for irrigation efficiency 		Continue seeking funding for irrigation efficiency project implementation									
Work with landowners to implement BMPs and projects that improve irrigation and cropland management 3.2c	Identify water conservation practices that assist agricultural, small farm and urban water users	Assist county residents with implementation of water conservation practices through technical assistance as well as cost share programs				By 2010, we will increase water conservation practices throughout the county to show a 10% improvement in the amount of water saved, which therefore, would remain in the streams and rivers of the county							

	В	Senton Conservation D	istr	rict - Other Responsib	oiliti	ies						
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions S	Immediate Priorities	complete		complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed				
SURFACE WATER R	ESOURCES: PUBLIC EDU	CATION			1	1	1					
Design and implement a public education program to support water quantity actions 3.5a	t Identify water conservation practices that assist small farm and urban water users	Assist county residents with knowledge and implementation of xeriscaping techniques to reduce irrigation demands				By 2010, we will increase water conservation practices throughout the county to show a 10% improvement in the amount of water saved, which therefore, would remain in the streams and rivers of the county		W/ CITY, CNTY, ID				
SURFACE WATER Q	UALITY: INTERAGENCY C	COORDINATION										
Participate in interagency coordination forum 5.7a	 Develop proactive strategies to make non local decision making processes more realistic for local landowners Showcase district progress 	Participate in WRAC Maintain contact with legislatures				By the end of 5 years, we will have at least maintained current local control of resource management (#1 Local control of resource management)						

		Benton Conservation Dis	str	rict - Other Responsib	oilit	ies					
		Timeline	es/ľ	Milestones							
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER QUALITY: IMPROVE UNDERSTANDING OF WATERSHED PROBLEMS & SOLUTIONS / TMDLs											
Identify projects and seek funding for water quality enhancement actions 5.8	Identify the rivers and streams that do not meet the Ecology water quality standards					By 2010, the water quality of the rivers and streams in Benton County will have shown continual improvement in terms of Ecology evaluation standards		W/ WSU, ID, USDA, LANDOWNERS, ECOLOGY, WDOA, NRCS			
	Establish baseline data for these streams and rivers	Work to secure funding to monitor streams and rivers that do not meet Ecology standards									
	Identify methods to bring these rivers and streams into compliance	Work to secure funding to improve the water quality in those streams and rivers that are of concern									

		Benton Conservation D	ist	rict - Other Responsibi	iliti	es					
		Timelin	es/	Milestones							
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete		complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER QUALITY: IMPROVE UNDERSTANDING OF WATERSHED PROBLEMS & SOLUTIONS / TMDLs											
Support efforts to expand monitoring activities 5.8c	Work to secure funding to monitor and improve the water quality in those streams and rivers that are of concern	Evaluate temperature in the Yakima River adjacent to Horn Rapids Park before planting riparian buffer (spring 2006)		 Monitor temperature after planting Attend water quality monitoring workshop 		By 2010, the water quality of the rivers and streams in Benton County will have shown continual improvement in terms of Ecology evaluation standards		W/ ECOLOGY USGS, SYCD			
SURFACE WATER QU	JALITY: MINIMIZE RES	OURCE IMPACTS ON QU	JAL	ITY							
Assess groundwater impacts on surface water 5.10b	Interact with other agencies to compile relevant data	Communicate with other agencies to collect groundwater info				Determine ground water contribution to surface water quality					
GROUND WATER QU	ALITY: IMPROVE PUB	LIC UNDERSTANDING AN	ND .	AWARENESS - DRINK	INC	G WATER ISSUES	î				
Provide outlets for ground water protection information 6.1a	Continue district newsletter with information updates	Include articles in newsletter related to ground water quality						W/ CHD, WSU			

Benton Conservation District - Other Responsibilities											
		Timelin	es/Milestones								
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid - Term Actions B 3 - 5 Years	Long - Term Actions / Objectives	DescriptionNotesDescriptionPossible FundingDescriptionSourcesOeAgreements Needed						
HABITAT: PROTECT / ENHANCE ANADROMOUS FISH MIGRATION CORRIDORS											
Identify and implement water quality actions to protect and enhance anadromous fish migration corridors 7.2b	Water Star Grass Abatement in lower Yakima River	Secured funding to test removal options	X Secure additional funding	Secure additional funding	\$30K YBSRB Funding W/ ECOLOGY, ID, LANDOWNERS						
		HES & CONNECT ASSOC									
Identify and implement actions to improve water quality 7.3c , 7.4c	Water Star Grass Abatement in lower Yakima River	Secured funding to test removal options	Secure additional funding	Secure additional funding	\$30K YBSRB Funding W/ ECOLOGY, EPA, ID, LANDOWNERS, USGS, USFS						
HABITAT: IMPROVE I	NFORMATION BASE										
Assess and monitor aquatic habitats 7.6 a & b	Water Star Grass Abatement in lower Yakima River	Secured funding to test removal options	Secure additional funding	Secure additional funding	\$30K YBSRB Funding W/ CA, WDFW, ECOLOGY, USFS, CC SOAC, ID USGS						

			Benton County -	Lea	ad Responsibilities								
	Timelines/Milestones												
PROPOSED PLAN ACTIONS	Ongoing Strategies and/or Actions	complete	Strategies and Actions Immediate Priorities	complete	Mid - Term Strategies and Actions 3 - 5 Years	complete	Long - Term Strategies and Actions	complete	Notes Possible Funding Sources Agreements Needed				
ADMINISTRATIVE													
*Plan Adoption		Х											
*Establish Coordination Agency	Approved Yakima Basin Water Resources Agency (YBWRA)	x											
*Establish Water Resources Advisory Committee	Intergovernmental Agreement	x											
SURFACE WATER R	ESOURCES: STORAGE	Ē		1									
Provide seed funding 3.1c			Support storage through Yakima Basin Storage Alliance						past funding				
GROUND WATER RE	SOURCES: MANAGEM	IEN	T		1								
Develop policies or regulations to facilitate establishment of new or expanded public water systems 4.0			For plats, discussion of adopting regs that require up to 5-6 dwelling per one exempt well, rather than permitting one exempt well per parcel is a step forward		Amendments to Building/Subdivision Codes to specify potable water supplies in bldg. and subdivision permit apps.				not funded				

	Benton County - Lead Responsibilities											
Timelines/Milestones												
PROPOSED PLAN ACTIONS	Ongoing Strategies and/or Actions SOURCES: MANAGEMEN	Strategies and Actions Immediate Priorities	complete	Mid - Term Strategies and Actions 3 - 5 Years	complete	Long - Term Strategies and Actions	complete	Notes Possible Funding Sources Agreements Needed				
*Co-lead with cities to support service expansion by public water systems within urban growth areas 4.1d	Support service area expansion to discourage proliferation of exempt wells	Draft Co. ordinance for UGAs requires developments within 400' of city service to "hook-up" if city will serve. Binding the cities to do so would require an interlocal agreement. The incentive for developers is urban versus rural density.		Agreements with all cities to serve in UGAs without annexation where annexation is problematic				N/A				
SURFACE WATER QU	JALITY: PREVENT / MITIG	ATE STORMWATER IM	IPA	CTS								
Plan/implement stormwater runoff controls 5.3 a & b	*Manage Stormwater in unincorporated areas consistent with surface water quality strategy			Develop Stormwater Program to meet requirement of Eastern Washington Stormwater Management Manual				Partially funded				

Benton County - Lead Responsibilities												
Timelines/Milestones												
Ongoing Strategies and/or Actions	complete	Strategies and Actions Immediate Priorities	complete	Mid - Term Strategies and Actions 3 - 5 Years	complete	Long - Term Strategies and Actions	complete	Notes Possible Funding Sources Agreements Needed				
IENT				1								
using CAO & SMP		Updates to CAO (2007) and SMP (2008)		Do outreach to inform the public and property owners re the value of, and the state of, the resources and the "why of" protective measures/regs. Integrate the outreach with the outreach program activities being done by the WMP and the YBFWRB				W/ CITY, ECOLOGY, NRCS, USFS Partial funding re CAO and SMA updates				
	and/or Actions	Protect existing habitat	Ongoing Strategies and/or Actions and/or Actions Strategies and Actions Immediate Priorities IENT Updates to CAO (2007) and SMP	Ongoing Strategies and/or Actions and/or B B B Strategies and Actions Immediate Priorities and B B B B IENT Updates to CAO (2007) and SMP	Timelines/Milestones Ongoing Strategies and/or Actions and billing Strategies and Actions Immediate Priorities Mid - Term Strategies and Actions 3 - 5 Years MENT Do outreach to inform the public and property owners re the value of, and the state of, the resources and the "why of" protective measures/regs. Integrate the outreach with the outreach program activities being done by the WMP	Timelines/Milestones Ongoing Strategies and/or Actions and/or Ac	Timelines/Milestones Ongoing Strategies and/or Actions and/or Actions begin beg	Timelines/Milestones Ongoing Strategies and/or Actions and box Strategies and Actions Immediate Priorities and box Mid - Term Strategies and Actions and box Long - Term Strategies and Actions and box MENT Do outreach to inform the public and property owners re the value of, and the state of, the resources and the "why of" protective measures/regs. Integrate the outreach with the outreach program activities being done by the WMP Long - Term Strategies and Actions and box				

	Benton County - Lead Responsibilities											
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	Ongoing Strategies and/or Actions	Strategies and Ac Immediate Priori		Mid - Term Strategies and Actions 3 - 5 Years	complete	Long - Term Strategies and Actions	complete	Notes Possible Funding Sources Agreements Needed				
HABITAT ENHANCEM	IENT			L	1 1		1	L				
*Update land use regulations within jurisdictional area improve off-channel connectivity 7.3b, 7.4b		Updates to CAO a SMP to be finalized 2007. To the exte practical, integrate science from the V SRP and SBPs.	d in nt	Initiate focused public outreach in order to reduce violations of existing ordinances. Adopt Comp. Plan policies and amendments to existing CAO and SMP ordinances that enable the creation of a "package" or packages of complimentary land use controls/ options/incentives etc., that can be applied in conjunction with tools/funding available through the YBFWRB, YBWRA, M-CFEG, BPA, Benton Cons. District, etc., to projects that involve critical resources and LFs identified in the SBP and SRP at the time of site- planning and permit review. (continued)				W/ WDOT, WDFW, CD, LANDOWNERS Partial funding re CAO and SMA updates				

			Benton County -	Lea	ad Responsibilities							
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	Ongoing Strategies and/or Actions	complete	Strategies and Actions Immediate Priorities	complete	Mid - Term Strategies and Actions 3 - 5 Years	complete	Long - Term Strategies and Actions	complete	Notes Possible Funding Sources Agreements Needed			
HABITAT ENHANCEM	IENT (CONTINUED)		Γ	1				1				
*Update land use regulations within jurisdictional area improve off-channel connectivity 7.3b, 7.4b					The package would include incentives with and w/o mandatory requirements for such as clustered site plans, conservation easements or common open space, density bonuses, common wall units (i.e., duplexes and townhouses-zero lot line), land acquisitions, open space (current use property tax reductions) CREP, etc. The package could be developed jointly by the County and cities for use in each, with variations according to each but with the objective being consistency of result "on- the-ground" to protect and enhance resources across jurisdictional boundaries. Adequately fund post project monitoring and enforcement.							

*Included in Table 8-1 DIP September 2007 Benton County

			Benton County -	Lea	ad Responsibilities								
	Timelines/Milestones												
PROPOSED PLAN ACTIONS	Ongoing Strategies and/or Actions	complete	Strategies and Actions Immediate Priorities	complete	Mid - Term Strategies and Actions 3 - 5 Years	complete	Long - Term Strategies and Actions	complete	Notes Possible Funding Sources Agreements Needed				
HABITAT ENHANCEM	IENT								1				
*Update land use regulations within jurisdictional area to <u>improve riparian area</u> <u>management</u> 7.3d, 7.4d	Apply local regs to protect Critical Area resource functions.				See discussion under 7.3b & 7.4b above for Co./cities. For other than "protection": Livestock fencing program/incentives. Riparian and floodplain restoration projects				W/ LANDOWNERS, USFS, CD, WDFW				
*Facilitate county workshop(s) to develop more detailed habitat enhancement strategies at the county or subbasin level 7.6a	YBSRP completed 2006 Joined YBFWRB 2006 Facilitate public participation, outreach (e.g., at workshops) and dialogue between various local interests, participate w/ YBFWRB & YBWRA. County staff be liaison w/ city staff (Not yet implement Ted)	x x			If the YBWRA board desires, integrate with the YBFWRB's basin-wide integrated public outreach program to bring to the local public and shoreline property owners policy objectives, information/ data sets and implementation plans of the WMP and the SRP to foster understanding, support and participation.				Partially funded				

*Included in Table 8-1 DIP September 2007 Benton County

		Benton County - (Othe	er Responsibilities				
		Timeline	es/Mi	ilestones				
PROPOSED PLAN ACTIONS	Ongoing Strategies and/or Actions	Strategies and Actions Immediate Priorities	complete	Strategies and Actions Future	complete	Long - Term Strategies and Actions	complete	Notes Possible Funding Sources Agreements Needed
SURFACE WATER RE	ESOURCES: STORAGE							
*Support design and construction of storage projects by providing seed funding, securing political support, seeking additional funding and processing permits in a timely manner 3.1	Ongoing political and financial support for storage study and YBSA	Continued support	c	Continued support				Partially funded
SURFACE WATER RE	ESOURCES: PUBLIC EDU	CATION	1 1				1 1	
*Support design and implementation of public education program 3.5a				Regional education coordination consortium				W/ CITY, ID Not funded
GROUND WATER RE	SOURCES: MANAGEMEN	Т						
*Track progress of USGS Study and provide input to its application and associated policy decisions 4.1a		Tracking progress of study Completion of study in 2008						W/ CA, CITY, ID, ECOLOGY not funded

	Benton County - Other Responsibilities										
Timelines/Milestones											
PROPOSED PLAN ACTIONS	Ongoing Strategies and/or Actions	Strategies and Actions Immediate Priorities	a b a d w OMid - Term Strategies and Actions 3 - 5 Yearsa b d 	Long - Term Strategies and Actions	notesDDDDDDSDAgreements Needed						
GROUND WATER RE	SOURCES: MANAGEM	ENT		1							
*Design and establish improved system for monitoring and managing aquifer water levels over the long term 4.1b		Tracking progress	Same		W/ ECOLOGY, ID, CITIES Not funded						
Participate in development of any programs pertaining to the use and management of groundwater rights in Yakima Basin consistent w/ WMP, Alternative II-2 4.1c	Very minor, some connection to SEPA for certain projects	Review USGS groundwater study 2008. Participate in policy discussions after completion of the groundwater study	Help develop policy w/ WRAC and update Chapter 4 of WMP		W/ ECOLOGY, CITY, ID, LANDOWNERS Not funded						

		Benton County -	Other Responsibilities		
		Timeline	es/Milestones		
PROPOSED PLAN ACTIONS	Ongoing Strategies and/or Actions	Strategies and Actions Immediate Priorities	Image: state of the state of	Long - Term Strategies and Actions	Notes Possible Funding Sources Agreements Needed
GROUND WATER RE	SOURCES: PUBLIC ED	UCATION		-	
*Support design and implementation of a public education program addressing ground water management 4.2a			Regional education coordination consortium		Not funded
	JALITY: PREVENT / MI	FIGATE AG IMPACTS			
Support actions to control agricultural impacts other than irrigation or cropland management, or livestock or agricultural chemical impacts 5.2e		CAO setback requirements for aquatic resources. Ag. Extension Programs for small farmers, open space taxation programs.	Expansion to targeted small farmers or non-ag users (parks, ball fields, golf courses)		Partially funded
SURFACE WATER QU	JALITY: IMPROVE INTE	RAGENCY COORDINATIO	DN		
*Participate in interagency forum 5.7a	Participate in forum	Participate in forum	Participate in forum	Participate in forum	
HABITAT ENHANCEM	ENT: PROTECT EXIST	ING HIGH QUALITY HABIT	ATS		
Support watershed headwaters protection and projects to protect existing high-quality habitats 7.1b	Support YBFWRB and YBSRB and proposed actions to protect high quality habitats				funded

*Included in Table 8-1 DIP September 2007 Benton County

	Benton County - Other Responsibilities											
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	Ongoing Strategies and/or Actions	Strategies and Actions Immediate Priorities	and bind add bind Common Actions 3 - 5 Yearsand bind bind bind 	Long - Term Strategies and Actions	Notes Possible Funding Sources Agreements Needed							
HABITAT ENHANCEMENT: ENHANCE DOWNSTREAM REACHES & CONNECT ASSOCIATED FLOODPLAINS ENHANCE DEGRADED BUT FUNCTIONAL HABITATS												
Support in-channel complexity actions to enhance downstream reaches and connect associated floodplains and to enhance degraded but functional aquatic habitats 7.3e, 7.4e	To the extent that local permits, etc. are necessary the County is supportive	See 7.3b; 7.4b	Work with and through the YBFWRB, YBWRA board, non-profits etc. to assist in identifying locations for such projects and certain land use related logistics for accomplishing them									
HABITAT ENHANCEM	ENT: PROTECT EXISTING	G CONDITIONS FROM F	URTHER DEGRADATION									
pollution to protect existing habitat conditions from further	Support Benton Conservation District re agriculture. Control development runoff on- site				W/ CA, WDFW, ECOLOGY, USFS, CD, CC Funding ??							

	Bento	n Fra	anklin Health District	- Pa	rticipation Responsit	oiliti	ies				
			Timelines/	Miles	stones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term de Actions ge	Notes Possible Funding Sources Agreements Needed			
GROUND WATER QUAL	ITY: MANAGEMENT										
Develop detailed county ground water quality management strategies 6.0	We may be able to assist and provide comments							Work with all involved agencies to develop			

	Ber	ntor	n Franklin Health Dist	rict	- Other Responsibilit	ies					
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
GROUND WATER QUALI	TY: IMPROVE PUBLIC (JNE	DERSTANDING AND A	WA	RENESS		I				
Provide outlets for ground water protection information 6.1a	We can and do provide information to well owners								W/ WSU, CD		
Develop a mass media campaign for ground water protection 6.1b	This not something we would normally pursue however we do interact with the media on domestic water quality								W/ WSU, CD		
Develop ground water protection program for schools 6.1c	We presently have an educator to provide water quality programs as part of our current activities								W/ WSU, CD		
Conduct periodic public opinion surveys related to ground water protection efforts 6.1d	We do not have the funds nor staff for this type of activity								W/ WSU, CD		

	Ber	ntor	n Franklin Health Dist	rict	- Other Responsibiliti	es			
Timelines/Milestones									
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete		complete	Notes Possible Funding Sources Agreements Needed
GROUND WATER QUALI	TY: ASSESS SUSCEPT	BIL	ITY OF GROUND WA	TEF	R SUPPLIES TO CONT	'AN	IINATION	1 1	
Conduct level I risk assessment of ground water supplies' susceptibility to contamination 6.2a	We do not have the expertise to perform this function although we may be able to provide input								W/ CPD, ECOLOGY, LOCAL WATER PURVEYORS
Conduct level II risk assessment 6.2b	We do not have the expertise to perform this function although we may be able to provide input								W/ CPD, ECOLOGY, LOCAL WATER PURVEYORS
Evaluate the existing data management system that assesses the susceptibility of ground water supplies to contamination and improve if necessary 6.2c	We have no data management system at this time								

	Bei	ntor	n Franklin Health Dist	rict	- Other Responsibiliti	es			
Timelines/Milestones									
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed
GROUND WATER QUALI	ROUND WATER QUALITY: IMPROVE ABILITY TO DETECT AND MONITOR IMPACTS TO GROUND WATER SUPPLIES								
Establish/facilitate short- term monitoring approach to determine baseline conditions of groundwater supplies 6.3b	We do not have the staff or resources available to perform this task. In Franklin county this task is performed by the Ground water Management Area.								W/ W/ WDOH, ECOLOGY, USGS, LOCAL WATER PURVEYORS
Establish or facilitate long- term monitoring approach to detect impacted ground water supplies 6.3c	We can assist with								W/ LOCAL WATER PURVEYORS WDOH, ECOLOGY, USGS
Establish or facilitate long- term monitoring approach to evaluate the performance of implemented management strategies 6.3d	We can assist with this but we do not have the staff to perform this function								W/ WDOH, ECOLOGY, USGS, LOCAL WATER PURVEYORS

GROUND WATER QUALITY: IMPROVE ABILITY TO DETECT & MONITOR IMPACTS TO GROUND WATER SUPPLIES Analyze data collected during monitoring programs 6.3e We can assist with this but we do not have the staff to perform this function W/WDOH, ECOLOGY, USGS GROUND WATER QUALITY: WELLHEAD PROTECTION We can continue to request that these systems to voluntarily establish a Wellhead Protection Program 6.4c We can continue to request that these systems do this but we stablish a Wellhead Protection Program 6.4c W/ LOCAL WATER W/ LOCAL WATER W/ LOCAL WATER Systems to voluntarily establish a Wellhead Protection Program 6.4c W/ LOCAL WATER W/ LOCAL WATER Systems to voluntarily wDOH GROUND WATER QUALITY: MINIMIZE LAND USE IMPACTS W/ TECHNICAL MANAGEMENT STRATEGIES W/ LOCA, ECOLOGY, W/ CD, ECOLOGY, W/ CD, ECOLOGY, Planning through		Bento	n Franklin Health Distr	rict	- Other Responsibiliti	es			
PROPOSED PLAN ACTIONS On-going Strategies and/or Actions and big big big big big Immediate Priorities and big big big big Mid - Term Actions 3 - 5 Years and big big big Long - Term Actions big big big big Notes Possible Funding Sources Agreements Needec GROUND WATER QUALITY: IMPROVE ABILITY TO DETECT & MONITOR IMPACTS TO GROUND WATER SUPPLIES We can assist with this but we do not have the staff to perform this function We can assist with this but we do not have the staff to perform this function W/ WDOH, ECOLOGY, USGS GROUND WATER QUALITY: WELLHEAD PROTECTION We can continue to request that these systems to voluntarily establish a Wellhead Protection Program 6.4c We can continue to request that these systems do this but we still haven't accomplished routine monitoring compliance W/ LOCAL WATER W/ LOCAL WATER GROUND WATER QUALITY: MINIMIZE LAND USE IMPACTS W/ TECHNICAL MANAGEMENT STRATEGIES W/ LOCAL WATER W/ CD, ECOLOGY, W/ CD, ECOLOGY, W/ CD, ECOLOGY, W/ CD, ECOLOGY, W/ CD, ECOLOGY,	Timelines/Milestones								
Analyze data collected during monitoring programs 6.3e We can assist with this but we do not have the staff to perform this function W/ WDOH, ECOLOGY, USGS GROUND WATER QUALITY: WELLHEAD PROTECTION We can continue to request that these systems to voluntarily establish a Wellhead We can continue to request that these systems do this but we stall haven't accomplished routine monitoring compliance W/ LOCAL WATER PURVEYORS, WSU, WDOH GROUND WATER QUALITY: MINIMIZE LAND USE IMPACTS W/ TECHNICAL MANAGEMENT STRATEGIES W/ LOCAL WATER PURVEYORS, WSU, WDOH Identify land use activities and contaminants of ground water to be arddrescend with tochnical with conty Planning through May be appropriate to work with County Planning through W/ CD, ECOLOGY, WDOA		On-going Dependence Strategies and/or Actions			Mid - Term Actions	Long - Term Actions	Possible Funding		
Analyze data collected during monitoring programs 6.3e but we do not have the staff to perform this function W/ WDOH, ECOLOGY, USGS GROUND WATER QUALITY: WELLHEAD PROTECTION We can continue to request that these systems to voluntarily establish a Wellhead Protection Program 6.4c We can continue to request that these systems do this but we still haven't accomplished routine monitoring compliance W/ LOCAL WATER PURVEYORS, WSU, WDOH GROUND WATER QUALITY: MINIMIZE LAND USE IMPACTS W/ TECHNICAL MANAGEMENT STRATEGIES W/ LOCAL WATER PURVEYORS, WSU, WDOH Identify land use activities and contaminants of ground water to be ardtressed with technical work with County May be appropriate to work with County W/ CD, ECOLOGY, W/CD, ECOLOGY, W/CD, ECOLOGY,	GROUND WATER QUALI	TY: IMPROVE ABILITY TO	DETECT & MONITOR	IMF	PACTS TO GROUND W	ATER SUPPLIES			
Encourage Group B We can continue to systems to voluntarily request that these establish a Wellhead Protection Program 6.4c Protection Program 6.4c will haven't accomplished routine monitoring compliance GROUND WATER QUALITY: MINIMIZE LAND USE IMPACTS W/ TECHNICAL MANAGEMENT STRATEGIES Identify land use activities May be appropriate to orr with County Planning through	during monitoring	but we do not have the staff to perform this							
Encourage Group B request that these systems to voluntarily w// LOCAL WATER establish a Wellhead systems do this but we still haven't accomplished routine Protection Program 6.4c accomplished routine monitoring compliance W/ LOCAL WATER GROUND WATER QUALITY: MINIMIZE LAND USE IMPACTS W/ TECHNICAL MANAGEMENT STRATEGIES WDOH WOOH Identify land use activities and contaminants of ground water to be addressed with technical May be appropriate to work with County W/ CD, ECOLOGY, W/ CD,	GROUND WATER QUALI	TY: WELLHEAD PROTECT	ION						
Identify land use activities and contaminants of ground water to be addressed with technical W/CD, ECOLOGY, W/DOA_NRCS	systems to voluntarily establish a Wellhead	request that these systems do this but we still haven't accomplished routine					PURVEYORS, WSU,		
and contaminants of ground water to be addressed with technical W/CD, ECOLOGY, W/CD, ECOLOGY, W/DOA, NBCS	GROUND WATER QUALI	TY: MINIMIZE LAND USE II	MPACTS W/ TECHNIC	AL	MANAGEMENT STRA	TEGIES			
Critical Areas 6.5a Critical Areas Ordinance	and contaminants of ground water to be addressed with technical management strategies	work with County Planning through Critical Areas					W/ CD, ECOLOGY, WDOA, NRCS		

	Benton Franklin Health District - Other Responsibilities										
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
GROUND WATER QUALI	TY: MINIMIZE LAND US	ΕI	MPACTS W/ TECHNICA	۱L	MANAGEMENT STRA	TEC	SIES				
Select and implement technical management strategies to minimize land use activities on ground water supplies 6.5b	May be appropriate to work with County Planning through Critical Areas Ordinance								W/ CD, ECOLOGY WDOA, NRCS		
GROUND WATER QUALI	TY: CLEAN UP SOURC	ES	OF CONTAMINATION								
Evaluate the need for independent clean up actions 6.6b	We do perform some assessments on Ecology's behalf								W/ ECOLOGY, WDOA, USGS		

	Buena Irrigation District - Lead Responsibilities									
			Timelin	es/	Milestones					
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete		complete	Long - Term Actions	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER RESOURCES: EFFICIENCY										
Implement water use efficiency projects, including establishing agreements and design and construction 3.2a	Replace open ditch irrigation with low- pressure pipe							Total cost 4 projects: \$1,026,668.76 10% Buena ID 90% cost share		
	Construct concrete control structures for access and cleaning									
	Install flow meter at diversion									

CA - Lead Responsibilities										
Timelines/Milestones										
On-going Strategies and/or Actions	completed	Immediate Priorities	completed	Mid-Term Actions 3 - 5 Years	completed	Long-Term Actions	completed	Notes Possible Funding Sources Agreements Needed		
OVERALL PLAN IMPLEMENTATION										
Detailed Implementation Plan (DIP) Watershed Management Plan implementation	ir p 1 2 w 3	nplementation lanning: . Administration . Contact group A <i>r</i> ater users . Establish WRAC						1-3 years funding \$125,000/year, 4-5 years funding \$67,500/year		
	Strategies and/or Actions MENTATION Detailed mplementation Plan (DIP) Watershed Management Plan	MENTATION Detailed mplementation Plan (DIP) Natershed Management Plan mplementation	On-going Strategies and/or ActionsImmediate PrioritiesMENTATIONFirst year implementation Plan (DIP)First year implementation planning: 1. Administration 2. Contact group A water users 3. Establish WRAC	On-going Strategies and/or ActionsImmediate PrioritiesImmediate Output Output Strategies and/or ActionsMENTATIONDetailed mplementation Plan (DIP)Watershed Management Plan mplementationWatershed Management Plan mplementationMentation Strategies and/or ActionsStrategies and/or ActionsDetailed mplementation Plan (DIP)Watershed Management Plan mplementationStrategies and/or Management Plan mplementationStrategies and/or Management Plan mplementationManagement Plan mplementation <t< td=""><td>On-going Strategies and/or ActionsTotal ActionsImmediate PrioritiesTotal degMid-Term Actions 3 - 5 YearsMENTATIONDetailed mplementation Plan (DIP)First year implementation planning: 1. Administration 2. Contact group A water users 3. Establish WRACPlan implementation and grant programs</br></td><td>On-going Strategies and/or ActionsTotal ActionsImmediate PrioritiesDescriptionMid-Term Actions 3 - 5 YearsTotal actionsMENTATIONDetailed mplementation Plan (DIP)Watershed Management Plan mplementationWatershed Management Plan mplementationStrategies and/or ActionsActionsDetailed mplementation Plan (DIP)Strategies and/or ActionsStrategies and/or ActionsStrategies and/or ActionsStrategies and/or ActionsMentation Plan Mater users S. Establish WRACStrategies and/or ActionsStrategies and/or ActionsMentation Plan Mater users S. Establish WRAC</br></br></br></br></br></br></td><td>On-going Strategies and/or ActionsImmediate PrioritiesImmediate of giMid-Term Actions 3 - 5 YearsImmediate of giLong-Term ActionsMENTATIONDetailed mplementation Plan (DIP)First year implementation planning: 1. Administration 2. Contact group A water users 3. Establish WRACPlan implementation and grant programsImmediate of gi</td><td>On-going Strategies and/or ActionsTemediate PrioritiesTemediate PrioritiesMid-Term Actions 3 - 5 YearsDetailed EdLong-Term ActionsDetailed First year implementation planning: 1. Administration 2. Contact group A water users 3. Establish WRACPlan implementation and grant programsPlan implementation and grant programs</td></t<>	On-going Strategies and/or ActionsTotal ActionsImmediate PrioritiesTotal degMid-Term Actions 3 - 5 YearsMENTATIONDetailed mplementation Plan (DIP)First year implementation planning: 1. Administration 2. Contact group A water users 3. Establish WRACPlan implementation 	On-going 	On-going Strategies and/or ActionsImmediate PrioritiesImmediate of giMid-Term Actions 3 - 5 YearsImmediate of giLong-Term ActionsMENTATIONDetailed mplementation Plan (DIP)First year implementation planning: 1. Administration 2. Contact group A water users 3. Establish WRACPlan implementation and grant programsImmediate of gi	On-going Strategies and/or ActionsTemediate PrioritiesTemediate PrioritiesMid-Term Actions 3 - 5 YearsDetailed EdLong-Term ActionsDetailed First year implementation planning: 1. Administration 2. Contact group A water users 3. Establish WRACPlan implementation and grant programsPlan implementation and grant programs		

			CA - Lead R	esp	onsibilities					
			Timeline	s/Mi	ilestones					
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	completed	Immediate Priorities	completed	Mid-Term Actions 3 - 5 Years	completed	Long-Term Actions	completed	Notes Possible Funding Sources Agreements Needed	
OVERALL PLAN IMPL	EMENTATION									
Pursue additional funding										
	Prepare grant applications to obtain RCW 90.82 funds for implementation and administration		Year 1: reimbursement requests Year 2: obtain year 2 funding Oct 2007		Obtain 3rd - 5th year funding		Obtain ongoing state funding for 90.82 operations & projects		Admin: State 90.82 CCW projects & water quality planning	
SURFACE WATER RESOURCES										
Seek authorization and funding from state to match federal funds for storage study 3.1a	Support state funding requests 1. USBR storage study 2. Pine Hollow		To be determined		Seek match for storage construction funding					
	GROUND WATER RESOL	JR	CES				Г			
	Participate in and track Columbia River Management Program for basin funding opportunities		 Participate with Columbia River Commissioner's Advisory Group (CRCAG) Participate in Policy Advisory Group (PAG) 							
	SURFACE WATER QUAL	ITY	5.8 a, b, c, d							
	Identify and seek funding for water quality enhancement actions. GROUND WATER QUALI	τv								
	GROUND WATER QUAL	II								
	HABITAT ENHANCEMEN	Т				1		1		

		CA - Lead R	esponsibilities							
		Timeline	s/Milestones							
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid-Term Actions 3 - 5 Years	completed	Long-Term Actions	completed	Notes Possible Funding Sources Agreements Needed			
OVERALL PLAN IMPI	LEMENTATION									
Monitor plan implementation	Annual review of DIP actions by WRAC w/ implementing partners	Dec. 2007 report Dec. 2008 report	Ongoing							
SURFACE WATER RESOURCES, 3.1.d.1										
		Review progress on USBR / Ecology storage study / EIS								
	GROUND WATER RES	OURCES, 4.1.a				1				
		Review progress on Yakima Basin USGS Ground water Study Due 2008	Facilitate WRAC and/or subgroup to review study & develop policy/revisions to Chapter 4 of WS Plan							
	SURFACE WATER QUA	ALITY 5.8 a - d								
		Track development of TMDLs in Yakima Basin								
	GROUND WATER QUA	LITY, 6.0								
		Review water supply plan updates for consistency with WMP								
	HABITAT ENHANCEME						·			
		Coordinate & exchange information with YBFWR board for habitat enhancement efforts								

		CA - Lead	Res	ponsibilities						
		Timelin	ac/M	lilestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	completed		completed	Long-Term Actions	completed	Notes Possible Funding Sources Agreements Needed		
OVERALL PLAN IMPL	EMENTATION		_		1		_			
Information clearinghouse	Provide watershed information as requested									
	SURFACE WATER RESOURCES, 3.0									
		Participate in USBR Round Table								
	GROUND WATER RES	OURCES, 4.0			1					
		Provide information on ground water								
	SURFACE WATER QU	ALITY, 5.0					1			
		Conduct annual CCW local priority ranking		Ongoing						
	GROUND WATER QUA	LITY, 6.0				I				
	HABITAT ENHANCEME			1			1			
		Coordinate & provide information w/ YBFWRB								

		CA - Lead	Res	ponsibilities						
		Timeling	e/M	ilestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	completed		completed	Long-Term Actions	completed	Notes Possible Funding Sources Agreements Needed		
OVERALL PLAN IMPL	EMENTATION		1				1			
Support specific strategies	Prioritize actions for funding									
	SURFACE WATER RESOURCES									
		Track Yakima Basin Storage Study, 3.1d.1 Track Pine Hollow Storage Study, 3.1.d.2								
	GROUND WATER RES	OURCES					1			
		Track USGS ground water study 4.1a		Convene WRAC and/or subgroup to review & develop policy / recommendations to Chapter 4 of WMP as required						
	SURFACE WATER QU	ALITY					1			
		Track TMDL development 5.8								
	GROUND WATER QUA	LITY	1				1			
		To be determined by WRAC								

			CA - Lead R	esp	oonsibilities					
			Timelines	s/Mi	ilestones					
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	completed	Immediate Priorities	completed	Mid-Term Actions 3 - 5 Years	completed	Long-Term Actions	completed	Notes Possible Funding Sources Agreements Needed	
OVERALL PLAN IMPL	VERALL PLAN IMPLEMENTATION									
Support specific strategies	Prioritize actions for funding									
	HABITAT ENHANCEN	IENT	•	L 1		1		1		
			Focus on non-point source pollution 7.5c Review/comment on proposed habitat projects							

		CA - Lead	Resp	onsibilities				
		Timoling	e/Mi	lestones				
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Immediate Priorities	completed	Mid-Term Actions 3 - 5 Years	completed	Long-Term Actions	completed	Notes Possible Funding Sources Agreements Needed
OVERALL PLAN IMPL	EMENTATION				1		1	
Identify issues barriers to be addressed	Identify and prioritize barriers to implementation	Encourage Kittitas County, Ellensburg & others to join YBWRA						
	SURFACE WATER RES	SOURCES			1			
		To be determined by WRAC						
	GROUND WATER RES	OURCES						
		To be determined by WRAC						
	SURFACE WATER QU	ALITY						
		To be determined by WRAC						
	GROUND WATER QUA	LITY			1			
		To be determined by WRAC						
	HABITAT ENHANCEME	NT			1		1	
		To be determined by WRAC						

		CA - Lead F	les	oonsibilities							
		Timeline	s/M	ilestones							
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	completed	Mid-Term Actions 3 - 5 Years	completed	Long-Term Actions	completed	Notes Possible Funding Sources Agreements Needed			
OVERALL PLAN IMPI	EMENTATION		1	1	1	1	1				
Targeted public outreach	List and prioritize public outreach education opportunities										
	SURFACE WATER RESOURCES 3.5a										
	Regional Education Coordination Consortium	Join Regional Education Coordination Consortium									
	GROUND WATER RES	OURCES 4.2a									
	Join existing Regional Education Coordination Consortium	Organize & coordinate development of a public education program									
	SURFACE WATER QUA	ALITY 5.8d									
	Establish a forum as required to develop a public education program										
	SYCD facilitation of Water Quality Monitoring Group (Grant requirement to end)	Facilitate/build on (Water Quality Monitoring Group) or establish new Forum									

		CA - Lead F	Respo	onsibilities						
		Timeline	es/Mil	estones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	completed	Mid-Term Actions 3 - 5 Years	completed	Long-Term Actions	completed	Notes Possible Funding Sources Agreements Needed		
OVERALL PLAN IMPL	OVERALL PLAN IMPLEMENTATION									
Targeted public outreach	List and prioritize public outreach education opportunities									
	GROUND WATER QUA	LITY 6.1 a - d						1		
		Join existing or establish new Forum								
	HABITAT ENHANCEME	NT 7.0				1				
		Participate with YBFWRB efforts								

		CA - Lead R	esponsibilities									
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid-Term Actions 3 - 5 Years	Long-Term Actions	pateNotesaPossible FundingaSourcesoAgreements Needed							
OVERALL PLAN IMPL	OVERALL PLAN IMPLEMENTATION											
Prepare annual progress report	WRAC with director prepare annual progress report	December 2007/08 report/scope of work	Annual reports/scope of work	Ongoing								
Administrative support	Provide for director with administrative support	Annually: Update scope of work	Seek state/local funding for plan updates and ongoing implementation	Ongoing	90.82 funding (5 years) Seek future state 90.82 funding							

		CA - Lead F	Responsibilities								
		Timeline	s/Milestones								
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid-Term Actions 3 - 5 Years	completed	Long-Term Actions	completed	Notes Possible Funding Sources Agreements Needed				
OVERALL PLAN IMPL	OVERALL PLAN IMPLEMENTATION										
Coordinate watershed plan updates	Schedule 5-year plan updates as needed	Review Plan / identify issues for required updates	To be determined								
	GROUND WATER RES	OURCES				1					
	Track progress of USGS study and provide input to its application and associated policy decisions 4.1a	Track & review USGS study upon completion 2008	Convene WRAC (ground water committee) to review ground water report, develop policy recommendations and update Chapter 4 of WMP as required								

			CA - Lead Re	sp	onsibilities					
			Timelines/	Mi	lestones					
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	completed		completed	Mid-Term Actions 3 - 5 Years	completed	Long-Term Actions	completed	Notes Possible Funding Sources Agreements Needed	
OVERALL PLAN IMPL	OVERALL PLAN IMPLEMENTATION									
Improve interagency coordination										
	SURFACE WATER RES	SO	URCES 3.1							
	Support existing Forums		Coordinate with USBR/ Ecology storage study forums/ EIS 3.1d.1	(Ongoing		Support implementation of major storage			
			Participate in other existing YRBWEP and YBSA forums 3.5.b				Support implementation of major storage			
	GROUND WATER RES	SOL	IRCES			1				
	Establish new Ground Water Forum, 4.1.b									
			Coordinate with Group A water purveyors 4.2							

	CA - Lead Responsibilities											
			Timelines/M	lilest	tones							
PROPOSED PLAN ACTIONS	Strategies and/or 5								Notes Possible Funding Sources Agreements Needed			
OVERALL PLAN IMPLEMENTATION												
Improve interagency coordination												
SURFACE WATER QUALITY												
	Support existing Water Quality Monitoring Group		Facilitate Yakima Basin Water Quality Monitoring Group annually or as needed									
	Support existing sub- basin TMDL work groups 5.7.a		Participate in TMDL sub- basin forums									
	GROUND WATER QUA	۱L	ſΥ									
	Establish Forum 6.4.a		Coordinate w/ water purveyors' updates to water plans & wellhead protection programs									
	HABITAT ENHANCEME	-	1		1 1		1					
	Support Existing Forum, 7.0		Coordinate w/ YBFWRB									

	Columbia Irrigation District - Lead Responsibilities											
		Timeline	es/Mil	lestones								
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed				
SURFACE WATER RESOURCES												
Manage surface water resources 3.0								Update to capital improvement plan (CIP)				
SURFACE WATER RE	SOURCES: EFFICIEN	CY										
Implement water use efficiency projects, including establishing agreements and design and construction 3.2a	Canal lining: Line ~1 mile of lateral 2 canal	Canal lining: X Line ~1 mile of lateral 2 canal	Or	ngoing				Funding: 30% State (Ref 38) 70% local W/ USBR-YRBWEP (CAG)				

	City of Grandview - Project Lead Responsibilities											
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	- Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed				
SURFACE WATER RESOURCES: EFFICIENCY												
Continue working with irrigation districts to implement water use efficiency projects through agreements, funding and other actions 3.2b	Conserve domestic water supply by providing (parallel) irrigation piping system w/ SVID/Grandview	Dual water system: Alternate days on irrigation schedule for domestic & irrigation use SVID quarterly meetings		Ongoing		Ongoing		W/ USBR, SVID, GRANGER ID & Developers (dual systems required for all new developments) Local funding				
SURFACE WATER RESOU	IRCES: REUSE		1				1					
Periodically review reuse opportunities during utility plan updates projects 3.3b	Habitat enhancement w/ treated effluent on WDFW lands			Investigate w/ RSBOJC for reuse during drought years				W/ RSBOJC				
GROUND WATER RESOU	RCES: MANAGEMEN	νT										
Expand service by public water systems within urban growth areas to replace exempt well use 4.1d	Annexation with decommissioning of existing wells	Expand service area w/ dual irrigation system Urban growth boundary review pending w/ county		40-acre annexation pending				W/ CNTY, LANDOWNERS				

			City of Grandview - Pr	oje	ct Lead Responsibilit	ies						
			Timolin	oc/I	Milestones							
PROPOSED PLAN ACTIONSOn-going Strategies and/or Actionsa b b b c b c ba b c c b c c b c <b< td=""></b<>												
SURFACE WATER QUALIT	SURFACE WATER QUALITY: STORMWATER											
Plan/implement municipal stormwater runoff controls 5.3a			Design subdivisions to meet future requirements		Ongoing 2010 Meet 10,000 population threshold stormwater permit requirements				W/ CNTY, YAKIMA CITY, UNION GAP, SUNNYSIDE			
Plan/implement industrial stormwater runoff controls 5.3b					Inspect industries year 2010 +		Ongoing		W/ ECOLOGY, IND			
GROUND WATER QUALITY	Y: WELLHEAD PRO	DTI	ECTION	1		1		1				
Manage wellhead protection areas 6.4a, b	2001 plan approved by WDOH		Public education of citizens in wellhead protection areas		Ongoing		Ongoing		W/ WDOH, LOCAL WATER PURVEYORS			
	Posted entrances											

	City of Grandview - Project Lead Responsibilities										
			Timeline	es/N	lilestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete –	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
HABITAT: ENHANCE DEGRADED BUT FUNCTIONAL AQUATIC HABITATS											
Update land use regulations to improve off-channel connectivity, and improve management of riparian areas consistent with habitat strategy 7.4d	Habitat enhancement at WDFW Byron Ponds with treated effluent		ond expansion to ast Game Pond						\$2,000,000 North American Wetlands Conservation Act Grant w/ WDFW		
	Effluent delivery - 1998 Ducks Unlimited funded pipeline								\$40,000 pipeline		

City of Grandview - Other Responsibilities												
			Timeline	es/l	Vilestones							
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER RESOURCES: COMMUNICATION / PUBLIC EDUCATION												
Design and implement public education program to support storage, water efficiency, water reuse, and water-rights transfer actions 3.5a	Support of YBSA		Ongoing support		Ongoing support		Ongoing support		W/ CA/YBSA, ID			
Participate in interagency coordination forum 3.5b	Member of WRAC		Support DIP		Support DIP		Support DIP		W/ WSU, WDFW, CNTY			
GROUND WATER RESOUR	RCES: MANAGEM	ΕN	1	1		1		1				
Define specific ground water management actions consistent with overall objectives of watershed plan (reliability) 4.0	Water supply intertie agreement w/ Sunnyside & Prosser											

			City of Grandview	- 0	ther Responsibilities							
			Timelin	es/N	Ailestones							
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed				
GROUND WATER RESOURCES: MANAGEMENT (CONT)												
Design and establish improved system for monitoring and managing aquifer water levels over the long term 4.1b	Industrial user conservation incentive program		Ongoing		Ongoing	Ongoing		W/ CA, CNTY, ID, ECOLOGY				
	Consolidating ground water permits							W/ ECOLOGY				
Participate in the development of any programs pertaining to the use and management of groundwater rights in Yakima Basin, consistent with Watershed Plan Alternative II-2 4.1c					Participate in policy development upon completion of USGS ground water study in 2008			W/ CA, ID, CTY, ECOLOGY				

	City of Grandview - Other Responsibilities											
	[]		Timeline	es/N	lilestones	1 1		1				
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
GROUND WATER RESOURCES: PUBLIC EDUCATION												
Develop a public education program about ground water management 4.2a	City code requiring alternate-day irrigation schedule		Monitored by city staff		Ongoing		Ongoing		W/ CNTY, ID, ECOLOGY/CA			
SURFACE WATER QUALIT	Y: POINT-SOURCE	ΞP	OLLUTION CONTROL									
Upgrade wastewater facilities 5.6a	\$14 M WWTP upgrade		Ongoing operation & maintenance		Ongoing operation & maintenance		Ongoing operation & maintenance		W/ IND, ECOLOGY (20 year capacity)			
Accommodate service area growth to support/maintain point source pollution control programs 5.6b	Expansion of collection system with development		Ongoing		Ongoing		Ongoing		W/ IND, ECOLOGY			

	City of Mabton - Project Lead Responsibilities										
			Timeline		Ailestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete §	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER RESOURCES: EFFICIENCY											
Continue working with irrigation districts to implement water use efficiency projects through agreements, funding and other actions 3.2b	Continue investigating purchase of irrigation water rights		Obtain irrigation water to irrigate parks						Local \$ W/ USBR, ID		
GROUND WATER RESOUR	RCES: MANAGEM	EN	Т								
Expand service by public water systems within urban growth areas to replace exempt well use 4.1d	Annexation 150- 180ac (south) Allison Road		Annexation public hearing March 2007						W/ CNTY		
GROUND WATER QUALITY	: WELLHEAD PRO	DTE	ECTION			1		1 1			
Manage wellhead protection areas 6.4a, b	WDOH approved wellhead protection plan		Maintain wellhead protection programs as part of Group A system requirements						W/ WDOH, LOCAL WATER PURVEYORS, USGS		

	City of Mabton - Other Responsibilities											
			Timeline	- /1								
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Milestones Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER RESOU	RCES: COMMUNI	CA	TION / PUBLIC EDUCA	TIC	N	1						
Design and implement public education program (PEP) to support storage, water efficiency, water reuse, and water-rights transfer actions 3.5a	Letter notice to conserve water		Need PEP in English and Spanish						W/, CITIES, ID			
Participate in interagency coordination forum 3.5b GROUND WATER RESOU			Join WRAC					1	W/ WSU, WDFW, CNTY			
	CES: MANAGEM	EN		1		1						
Participate in the development of any programs pertaining to the use and management of groundwater rights in Yakima Basin, consistent with Watershed Plan Alternative II-2 4.1c					Participate in future policy development following completion of Ground Water Study (2008)			1	W/ ID, CTY, ECOLOGY			
Expand service by public water systems within urban growth areas 4.1d	Need for additional water		Replacement well #5 to be completed August 30, 2007					1	W/ CA, CNTY, ID, ECOLOGY			

DIP September 2007 City of Mabton

	City of Mabton - Other Responsibilities										
		Timelin	es/	Milestones							
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	Long - Term Actions	DescriptionNotesDescriptionPossible FundingDescriptionSourcesOeAgreements Needed					
GROUND WATER RESOURCES: PUBLIC EDUCATION											
Develop a public education program about ground water management 4.2a	Letter notice, etc,. same as for surface water (see 3.5a above)	PEP in English & Spanish				W/ CNTY, ID, ECOLOGY					
SURFACE WATER QUALITY: POINT-SOURCE POLLUTION CONTROL											
Upgrade wastewater facilities 5.6a	Expand drying beds	Obtain \$ for feasibility study				Local \$ W/ IND, ECOLOGY					
Accommodate service area growth to support/maintain point source pollution control programs 5.6b	Wastewater expansion at 75% of capacity	Annexation area expansion		Ongoing	Ongoing	W/ IND, ECOLOGY					
SURFACE WATER QUALIT	Y: INTERAGENCY CO	OORDINATION		1							
Improve interagency coordination 5.7a	Coordinate w/ CA and WRAC										

DIP September 2007 City of Mabton

	City of Moxee - Project Lead Responsibilities										
			Timelines/Mile	ste	ones						
PROPOSED PLAN ACTIONS		complete	Immediate Priorities		Mid-Term Actions 3 - 5 Years	- Long-Term Actions	Notes Possible Funding Sources Agreements Needed				
SURFACE WATER RESOL	JRCES: EFFICIENCY	1		-1							
Continue working with irrigation districts to implement water use efficiency projects through agreements, funding and other actions 3.2b	Installing irrigation system w/in city limits to conserve domestic water supply		1000 ft/yr	C	Dngoing	Ongoing	W/ USBR, Selah/Moxee ID & Developers (required for all new developers)				
	Conserve domestic water supply by providing (parallel) irrigation piping system w/ Selah- Moxee ID \$40,000 spent		Start 2007 Complete: Dec 2008				Funding ?				
GROUND WATER RESOU	RCES: MANAGEMENT	-									
Expand service by public water systems within urban growth areas to replace exempt well use 4.1d	Annexation with assumption of existing well		Urban growth boundary expansion pending w/ county Annexations pending				W/ CNTY, LANDOWNERS				

	City of Moxee - Project Lead Responsibilities											
Timelines/Milestones												
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid-Term Actions 3 - 5 Years	complete	Long-Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
GROUND WATER QUALITY	Y: WELLHEAD PROTEC	CTI	ION									
Manage wellhead protection areas 6.4a, b	Maintain approved wellhead protection plan		Public education of citizens in wellhead protection areas		Ongoing		Ongoing		W/ WDOH, LOCAL WATER PURVEYORS			
			Booth at fair		Ongoing		Ongoing					

	City of Moxee - Other Responsibilities										
			Timelines/M	iles	tones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid-Term Actions 3 - 5 Years	complete	Long-Term Actions	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER RESOURCES: COMMUNICATION / PUBLIC EDUCATION											
Design and implement public education program to support storage, water efficiency, water reuse, and water-rights transfer actions 3.5a	Support to YBSA		Ongoing								
GROUND WATER RESOUR	GROUND WATER RESOURCES: MANAGEMENT										
Participate in the development of any programs pertaining to the use and management of ground water rights in Yakima Basin, consistent with Watershed Plan, Alternative II-2 (Selective Restrictions on New Ground Water Development) 4.1c	Working with Yakima county on HYW 24 corridor water delivery systems Intertie to share county water rights to serve corridor							W/ ID, CTY, ECOLOGY			
GROUND WATER RESOUR	RCES: PUBLIC EDUCA	λTΙ	ON								
	Need public education program to preserve domestic/ irrigation water							W/ CNTY, ID, ECOLOGY/CA			
program about ground water management 4.2a	preserve domestic/										

			City of Moxee - Other	r Re	esponsibilities						
			Timelines/M	iles	stones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid-Term Actions 3 - 5 Years	complete	Long-Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER QUALITY: PREVENT / MITIGATE STORMWATER IMPACTS											
Plan/implement industrial stormwater runoff controls 5.3b	Member regional SW policy group		Participating in regional funding study Oct/Nov 2007 decision on regional utility		Implementation		Implementation		W/ CTY, ECOLOGY, IND, REGIONAL GROUP		
SURFACE WATER QUALITY: POINT-SOURCE POLLUTION CONTROL											
Upgrade wastewater facilities 5.6a	Intertie w/ Yakima WWTP		Waste water interceptor line to connect to Yakima WWTP Start: Feb 07 complete: Aug 07 Terrace Heights Sewer District Complete PS: Dec 07		Use of "old" WWTP for pre-treatment of expanded/new industry				W/ IND, ECOLOGY		
Accommodate service area growth to support/maintain point source pollution control programs 5.6b	Expansion with development		208 unit subdivision Phase II expansion Feb - Dec 07		Urban area growth expansion & future annexations				W/ IND, ECOLOGY		

			City of Moxee - Othe	r Re	esponsibilities							
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid-Term Actions 3 - 5 Years	complete	Long-Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER QUALIT	Y: INTERAGENCY CO	OF	RDINATION			1						
Improve interagency coordination 5.7a	Connection to City of Yakima WWTP will remove waste discharge from Moxee drain		Start: Dec 07						CITY OF YAKIMA			
GROUND WATER QUALITY	Y: IMPROVE LOCAL W	ΈL	LHEAD PROTECTION				I					
Manage wellhead protection areas 6.4a, b	Part of regional wellhead protection committee		Public education of citizens in wellhead protection areas		Ongoing		Ongoing		W/ WDOH, LOCAL WATER PURVEYORS			

		City of Sunnyside - P	roje	ect Lead Responsibilit	ies			
		Timelin	es/I	Milestones				
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions		complete		complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed
GROUND WATER RESOUR	RCES: MANAGEMEN	NT	1		1		1	
Expand service by public water systems within urban growth areas to replace exempt well use 4.1d	Urban water system expansion	Ongoing expansion of urban area		Ongoing		Ongoing		W/ CNTY
	New well replacement #11 completed	#12 in 2008						Well #10 w/ treatment will provide supply for 20 years
SURFACE WATER QUALIT	Y: STORMWATER		1		1			
Plan/implement municipal stormwater runoff controls 5.3a	NPDES	Regional SW management utility Oct 2007 ordinance		Public education		Cleaning & permitting connected systems		W/ CNTY, ECOLOGY
Plan/implement industrial stormwater runoff controls 5.3b		Coordinate management of city discharge to SVID drains				Post-construction inspections		W/ CTY, ECOLOGY, IND Partner with SVID (secondary permittee)
GROUND WATER QUALITY	Y: WELLHEAD PROT	ECTION		1		1		isecondary berninee)
Manage wellhead protection areas 6.4a	In place	W/ new #12 in 2008		W/ plan update 2010				W/ WDOH, LOCAL WATER PURVEYORS, USGS

			City of Sunnyside	- 0	ther Responsibilities					
			Timolin	00/	Vilestones					
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed	
SURFACE WATER RESOURCES: COMMUNICATION / PUBLIC EDUCATION										
Design and implement public education program to support storage, water efficiency, water reuse, and water-rights transfer actions 3.5a	Annual report w/ conservation tips		Dual irrigation system New subdivision requirements						W/ CNTY, ID	
GROUND WATER RESOUR	RCES: MANAGEME	EN	Т							
Track progress of USGS Study and provide input to its application and associated policy decisions 4.1a			complete 2008				(Web)		W/ CA, CNTY, ID, ECOLOGY	
Design and establish improved system for monitoring and managing aquifer water levels over the long term 4.1b	Installing probe to monitor water levels		complete 2008						W/ CNTY, ID, ECOLOGY	

			City of Sunnyside	- 0	ther Responsibilities			
			Timelin	es/I	Vilestones			
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed
GROUND WATER RESOUR	RCES: MANAGEM	EN	Т	1		1	1	
Participate in the development of any programs pertaining to the use and management of ground water rights in Yakima Basin, consistent with Watershed Plan, Alternative II-2 (Selective Restrictions on New Ground Water Development) 4.1c					Participate in policy development upon completion of USGS ground water study (2008)			W/ ID, CTY, ECOLOGY
SURFACE WATER QUALIT	Y: POINT-SOURC	ΕP	OLLUTION CONTROL	1			1	
Upgrade wastewater facilities 5.6a	WWTP upgraded to meet ammonia de-nitrification) & CL ₂ (uv) limits		complete March 2007		Ongoing	Ongoing		W/ IND, ECOLOGY
SURFACE WATER QUALIT	Y: POINT-SOURC	ΕP	OLLUTION CONTROL					
Accommodate service area growth to support/maintain point source pollution control programs 5.6b	As needed							W/ IND, ECOLOGY

		City of Yakima - Pro	oje	ct Lead Responsibilition	es							
		Timelir	nes	/Milestones								
PROPOSED PLAN ACTIONS	On-going and/or Extrategies and/	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	Long - Term Actions	Description Descripti Descripti Description Description Description						
SURFACE WATER RE	ESOURCES: STORAGE	T			1 1	1						
Continue aquifer storage & recovery project 3.1e	On hold but still active			Obtain permits and test	First well in 2012 Second in 2014							
SURFACE WATER RE	SURFACE WATER RESOURCES: EFFICIENCY											
Continue working to implement water use efficiency projects through agreements, funding and other actions 3.2b	Ongoing	Irrigation system pipe replacement		Irrigation system pipe replacement	Irrigation system pipe replacement	Local funding						
SURFACE WATER RE	SOURCES: REUSE	1	1									
Periodically review reuse opportunities during utility plan updates projects 3.3b	Active			Next look in 2010								
GROUND WATER RE	SOURCES: MANAGEMEN	JT	1									
Design and establish improved system for monitoring and managing aquifer water levels over the long term 4.1b	Active	Monitor water level in city wells		Monitor water level in city wells Compare to USGS study		W/ CA, CNTY, ID, ECOLOGY						

		City of Yakima - Proje	ct Lead Responsibilities	8							
		Timelines	/Milestones								
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid - Term Actions 3 - 5 Years	မာ မာ Long - Term Actions လ	DescriptionNotesDescriptionPossible FundingDescriptionSourcesOestignAgreements Needed						
GROUND WATER RESOURCES: MANAGEMENT											
Support service expansion by public water systems within urban growth areas to replace exempt well use 4.1d	American Water Works Association (AWWA) Work with WA Water Utilities Council Chapter of AWWA to protect water law (HB1338)	Monitor court case			W/ OTHER CITIES						
SURFACE WATER Q	UALITY: PREVENT / MI	TIGATE STORMWATER IMP	ACTS								
Plan / implement municipal stormwater runoff controls 5.3a	Ongoing - Interim SW program - Clean inspect and assess existing infrastructure.	Permit to be issued by Ecology January 2007. Review plan with value engineering study to be completed January 2007	Develop joint utility w/County in accordance with Ecology permit compliance schedule	Continued implementation of program	W/ CNTY, ECOLOGY						
Plan / implement industrial stormwater runoff controls 5.3b	Ensure all industries are permitted	compliance review as part of stormwater management plan	Permit requirement - 3rd year		W/ CNTY, ECOLOGY, IND						

			City of Yakima - Pro	ojeo	ct Lead Responsibilities					
			Timelin	es	/Milestones					
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER QUALITY: POINT-SOURCE POLLUTION CONTROL										
Upgrade wastewater facilities to support/maintain point source pollution control programs 5.6a	Construction ongoing for update of wastewater facilities		Completion of construction by 12/07		Update Facilities Plan for next round of improvements 2009 Begin construction 2011			W/ IND, ECOLOGY		
Accommodate service area growth to support/maintain point source pollution control programs 5.6b	Accommodate growth with existing upgrade				Accommodate growth w/future Facilities Plan Update.			W/ IND, ECOLOGY		
GROUND WATER QU	ALITY: ASSESS SUSC	ΕP	TIBILITY OF GROUND	W	ATER SUPPLIES TO CON	ITAMINATION	1			
Conduct level I & II risk assessments 6.2a & b	Active		Member of regional update group		Update plan	Update plan every 5 years		W/ CHD, ECOLOGY, WDOH, LOCAL WATER PURVEYORS		
GROUND WATER QU	ALITY: WELLHEAD PR	OT	ECTION			1	1			
Manage wellhead protection areas 6.4a	Active		Member of regional update group		Update plan	Update plan every 5 years		W/ CHD, ECOLOGY, WDOH, LOCAL WATER PURVEYORS		

	City of Yakima - Project Lead Responsibilities										
			Timelir	nes	/Milestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	-	Notes Possible Funding Sources Agreements Needed			
HABITAT ENHANCEMENT: PROTECT & ENHANCE ANADROMOUS FISH MIGRATION CORRIDORS											
Lower Naches River Coordination Project 7.2c	See report of September 2005		Water right transfer & Ranney well relocation (transferred 2000 gpm to Kissel Well)	x	Drill new well			W/ YAKIMA CONSERVANCY BOARD & ECOLOGY APPROVAL			
					Fruitvale & Old Union Canal Co Diversion relocation			W/ YAKIMA COUNTY AND WDOT			
HABITAT ENHANCEM	IENT: PROTECT EXIST	IN	G HABITAT CONDITIO	NS	1						
Update land use regulations to improve off-channel connectivity, and improve management of riparian areas consistent with habitat strategy 7.5a			Being done as part of critical areas ordinance adoption by county 2007								

		City of Yakima -	Ot	her Responsibilities							
		Timeline	es/	Milestones							
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	-	A complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER RESOURCES: COMMUNICATION / PUBLIC EDUCATION											
Implement public education program to support storage, water efficiency, water reuse, and water- rights transfer actions 3.5a	Support storage with funding to YBSA	Annual funding						W/ CA, OTHERS			
	YBSA activities	Support storage						W/ CA, YBJB			
GROUND WATER RE	SOURCES: MANAGEN	IENT			1						
Track progress of USGS Study and provide input to its application and associated policy decisions 4.1a	USGS Study ongoing	Participate in annual update on study by Coordinating Agencies		Study Review upon completion 2008?				W/ CA (CNTY, CITY, ID)			

	City of Yakima - Other Responsibilities										
		Timelir	100	/Milestones							
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
GROUND WATER RESOURCES: MANAGEMENT											
		Projected completion date 2008		Participate in ground water policy & development to update Chapter 4 of Watershed Plan.				W/ CA & WRAC ON CHAPTER 4 UPDATE AS NEEDED			
SURFACE WATER QU	JALITY: INTERAGENC	Y COORDINATION			1		1				
Improve interagency coordination 5.7a	Central Pre-mix gravel mine relocation and associated USBR Yakima Reach study w/levee set-back	Meetings to coordinate planning		Resolve city outfall issues for inclusion in 2009 Facilities Plan update				W/ ALL AGENCIES INVOLVED			
HABITAT: PROTECT &	& ENHANCE ANADRON	MOUS FISH MIGRATION	co	RRIDORS		1					
WDOT-Naches Reach Analysis & Mgmt Plan 7.2a	(Same as Lower Naches Coordination Project)							W/ WDOT			

	City of Yakima - Other Responsibilities										
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	PROPOSED PLAN ACTIONSOn-going Strategies and/or Actionsand 										
HABITAT: PROTECT	& ENHANCE ANADRO	MOI	US FISH MIGRATION (CO	RRIDORS						
Yakima County Naches River Flood Hazard Mgmt Plan 7.2d	Coordinate with county planning								W/ YAKIMA COUNTY		

	ŀ	Kennewick Irrigation D	istr	rict - Lead Responsibiliti	es		
		Timelin	es/	Milestones			
PROPOSED PLAN ACTIONS	On-going b Strategies and/or Actions of	Immediate Priorities	complete		Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed
SURFACE WATER RE	SOURCES: EFFICIENCY		1				
Work with USBR to implement water use efficiency projects, including establishing agreements and design and construction 3.2a	Implement water use efficiency projects identified in conservation plan of Oct. 2004 or by district	Seal and refurbish main canal 1 1/2 mile/year					\$1.25M/year District funds (2006)
	Delivery System Metering	Install flow controls and flow meters		Install delivery system improvements			
	Clay line the canal for leakage/flow control by ID crew						District O & M funds
	Work with Ecology Columbia River Water Resources Mgmt. Program on water right permits for alternative pumped supply & funding for implementation						

		K	ennewick Irrigation D	istr	ict - Lead Responsibi	litie	es		
			Timelin	es/	Milestones				
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed
SURFACE WATER RE	ESOURCES: EFFICIEN	CY	(CONT)			1		1	
Work with USBR to implement water use efficiency projects, including establishing agreements and design and construction 3.2a (cont)	Work with USBR on Columbia River pump- exchange feasibility study or alternative		Develop Columbia River water right alternatives for evaluation and implementation w/ better irrigation delivery and Yakima River fish mitigation						USBR/Ecology Funding
	Develop and formalize "outage" program of planned repairs (non- irrigation season)		Implement and improve						
Continue working with irrigation districts to implement water use efficiency projects through agreements, funding and other actions 3.2b	Safety program / prevention strategy		Canal subsidence / leaks. Investigate with ground penetrating radar and infrared photography. Prevent encroachment of right of way						\$50,000/year

		Kennewick Irrigation Dis	strict - Lead Responsibi	ilitie	es		
		Timeline	s/Milestones				
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions		Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed
SURFACE WATER RE	SOURCES: EFFICIEN	CY (CONT)		-			
Work with landowners to implement BMPs and projects that improve irrigation and cropland management 3.2c	Plan for redistribution/ recalibration of service areas within district to	Ongoing	Future project implementation to be defined				
	New coordination with USBR on internal KID water allotment transfers. Greater flexibility in water transfers from vacant/ non-irrigated to areas of need	Permanent & annual transfers, engineering review, locator services and inspections					
	Work with cities (Richland, Kennewick, West Richland) to provide irrigation services for lands converting from ag to urban use	Address 500-600 new customers per year added to 21,500 existing customers					

		Kennewick Irrigation Di	strict - Lead Responsibil	ities	
		Timeling	es/Milestones		
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions		ع Mid - Term Actions E 3 - 5 Years	Long - Term Actions	notesaababbcbcbbb<
SURFACE WATER RE	ESOURCES: REUSE				
Encourage reuse opportunities for development 3.3c	Amon Wasteway reuse project to irrigate Local Improvement District (LID) of 1,500 homes	Reduce high groundwater levels			
SURFACE WATER RE	SOURCES: PUBLIC E	DUCATION			
Design and implement public education program to support surface water actions 3.5a	Urbanization Conference	 Future events on LID formation, developer specifications, design & sale of modular irrigation distribution system for maintenance by ID (Standardization) 	Repeat per requests		W/ CITY, CNTY
	Coordinator to work with users	Web site, Public Agency announcements, news letters, Information CD for new customers			1/2 FTE
Participate in interagency coordination forum 3.5b	Develop linear park along canal right of ways	Walking / bikeways along right of way			

Kennewick Irrigation District - Lead Responsibilities											
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER QU	IALITY: MINIMIZE RES	OU	RCE IMPACTS ON QU	JAL	ITY						
Improve surface water resources project operations 5.10a	Install SCADA Canal flow control systems to reduce overflows to wetland and other areas from ponds supplying LIDs										

Kennewick Irrigation District - Other Responsibilities									
	Timelin	es/	Milestones						
On-going Strategies and/or Actions	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
ESOURCES: STORAGE						1			
Support USBR Yakima Basin storage feasibility study	Ongoing								
ESOURCES: PUBLIC EI	DUCATION								
Participate in USBR (ROWG, YRBWEP, CAG, etc.)							W/ ALL PARTICIPATING ENTITIES		
SOURCES: MANAGEM	IENT	· · ·				1			
Work with cities requiring use of irrigation water as part of development	Install dual irrigation systems to District standards and standardization for operations by District						W/ CA, CITY, CNTY, ECOLOGY		
	Strategies and/or Actions ESOURCES: STORAGE Support USBR Yakima Basin storage feasibility study ESOURCES: PUBLIC E Participate in USBR (ROWG, YRBWEP, CAG, etc.) SOURCES: MANAGEN Work with cities requiring use of irrigation water as part	On-going Strategies and/or Actions and book and book and book ESOURCES: STORAGE Immediate Priorities Support USBR Yakima Basin storage feasibility study Ongoing ESOURCES: PUBLIC EDUCATION Participate in USBR (ROWG, YRBWEP, CAG, etc.) Install dual irrigation systems to District standards and standardization for	On-going Strategies and/or Actions and book and book and book and book <t< td=""><td>Timelines/Milestones On-going Strategies and/or Actions and begin Immediate Priorities and begin Mid - Term Actions 3 - 5 Years ESOURCES: STORAGE Ongoing Ongoing Immediate Priorities Immediate Pr</td><td>Timelines/Milestones On-going Strategies and/or Actions and be get Mid - Term Actions 3 - 5 Years and be get ESOURCES: STORAGE Ongoing Immediate Priorities and be get Mid - Term Actions 3 - 5 Years and be get ESOURCES: STORAGE Ongoing Immediate Priorities and be get Immediate Priorities and be get Mid - Term Actions 3 - 5 Years and be get ESOURCES: STORAGE Ongoing Immediate Priorities and be get Immediate Priorities and be get Immediate Priorities and be get Immediate Priorities Immediate Prior</td><td>Timelines/Milestones On-going Strategies and/or Actions and best best best best best best best best</td><td>Timelines/Milestones On-going Strategies and/or Actions and box box box box box box box box box box</td></t<>	Timelines/Milestones On-going Strategies and/or Actions and begin Immediate Priorities and begin Mid - Term Actions 3 - 5 Years ESOURCES: STORAGE Ongoing Ongoing Immediate Priorities Immediate Pr	Timelines/Milestones On-going Strategies and/or Actions and be get Mid - Term Actions 3 - 5 Years and be get ESOURCES: STORAGE Ongoing Immediate Priorities and be get Mid - Term Actions 3 - 5 Years and be get ESOURCES: STORAGE Ongoing Immediate Priorities and be get Immediate Priorities and be get Mid - Term Actions 3 - 5 Years and be get ESOURCES: STORAGE Ongoing Immediate Priorities and be get Immediate Priorities and be get Immediate Priorities and be get Immediate Priorities Immediate Prior	Timelines/Milestones On-going Strategies and/or Actions and best best best best best best best best	Timelines/Milestones On-going Strategies and/or Actions and box box box box box box box box box box		

		Kennewick Irrigation Di	istri	ict - Other Responsibi	litie	es				
		Timelin	es/l	Milestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
GROUND WATER RE	GROUND WATER RESOURCES: MANAGEMENT									
Expand service by public water systems within urban growth areas to replace exempt well use 4.1d	Future conversion of available irrigation wells to domestic use by cities	Inventory all drains to canals and require alternative to eliminate discharges of domestic water from city domestic water reservoirs to KID canals.								
GROUND WATER RE		DUCATION								
Develop a public education program about ground water management 4.2a (see 3.5a)		Web site, Public Agency announcements, news letters, compact disc for new customers								
SURFACE WATER Q	UALITY: PREVENT / MI	TIGATE AG IMPACTS								
Improve irrigation management to prevent/mitigate agricultural impacts 5.2a	Improve on-farm delivery and crop irrigation efficiency as needed	Ongoing (95% completed)								

	Kennewick Irrigation District - Other Responsibilities									
			Timelin	es/N	Milestones					
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed	
SURFACE WATER Q	UALITY: PREVENT / MI	TIG	ATE STORMWATER I	MP/	ACTS	1		1 1		
Plan/implement municipal stormwater runoff controls 5.3a	Work with cities of Richland, Kennewick, & West Richland on stormwater discharges to canals and drains and storage drainage to irrigation canals		Inventory all drains & canals							
HABITAT: PROTECT	/ ENHANCE ANADROM	IOL	IS FISH MIGRATION C	OR	RIDORS	1		1 1		
Support passage barrier improvements to protect and enhance anadromous fish migration corridors 7.2c	See: Columbia River pump exchange / Columbia River New Water Right (3.2a) This would improve instream flows from Chandler Diversion to the Columbia River								W/ USBR, LANDOWNERS, WDFW, ROZA ID	

		Naches-Selah Irrigation Di	strict - Lead Responsil	bilit	ies		
		Timelines	/Milestones				
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed
SURFACE WATER RI	ESOURCES: EFFICIEN	CY			1		
Work with USBR to implement water use efficiency projects, including establishing agreements and design and construction 3.2a	NSID/Wapatox Canal	Feasibility Study	Selection of preferred optionNegotiate agreement Final design & bidding				W/ USBR-YRBWEP (CAG)
Implement water use efficiency projects through agreements, funding and other actions 3.2b	Implement 1995 Conservation Plan (2005 Addendum) to conserve water for beneficial use and/or return to instream flows	Pipe replacement: 2 miles of failing wood flume (MP 0-9) Line 3 miles of canal					W/ USBR, CD, CITY
		1.4 miles pressurized pipe (Lat #1) (2500 ac)					
		Replace & upgrade 9000' of pipe w/ pressurized pipe (Lower Lat #2) (1500 ac)					
		Pipe 1.5 miles (#1/NPH Lat)					

		Nache	s-Selah Irrigation	Dist	rict - Lead Responsil	bilit	ies		
			Timolin	oc/1	lilestones				
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	соп	mediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed
SURFACE WATER RE	ESOURCES: EFFICIEN	CY		1 1		1	I	1 1	
Implement water use efficiency projects through agreements, funding and other actions 3.2b (cont)	Implement 1995 conservation Plan (2005 Addendum) to conserve water for beneficial use and/or return to instream flows (cont)	cana Rep failir	e 5 miles of open al lace 2 miles of ng wood pipe NPH Lat)						
		woo Pipe cana Upg distr	lace 1.1 mile of d pipe e 1.7 miles open al rade other ribution pipe (3# (2000 ac)						
			e 55 af re- Ilation reservoir 15)						
		cana	and rehab main al (mp 9-15)						
SURFACE WATER RE	ESOURCES: INTERGO	VERNM	IENTAL COORDIN	ATI	ON & COMMUNICATI	ON/	TARGETED PUBLIC C	UTI	REACH
Participate in interagency coordination forum 3.5b	Participate in WRAC								W/ ALL PARTICIPATING ENTITIES

	Naches-Selah Irrigation District - Lead Responsibilities									
Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER QU	SURFACE WATER QUALITY: PREVENT/MITIGATE AG IMPACTS									
Reduce impacts of agricultural chemicals 5.2c	Implement conservation plan with secondary benefits to improve water quality as canal (Lat) distribution system. Enclosure will require less chemicals for pest control.	See project list #3.2b above				ι	W/ CD, ECOLOGY, JSDA, _ANDOWNERS			
SURFACE WATER QU	JALITY: MINIMIZE WA	TER RESOURCE IMPACTS	S ON QUALITY							
operations to minimize water resource	conservation plan with	See project list #3.2b				N	W/ LANDOWNERS			

Naches-Selah Irrigation District - Lead Responsibilities											
Timelines/Milestones											
On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
ABITAT ENHANCEMENT: ENHANCE DOWNSTREAM REACHES AND CONNECT ASSOCIATED FLOODPLAINS ENHANCE DEGRADED BUT FUNCTIONAL AQUATIC HABITATS											
Implement conservation plan with secondary benefits to improve instream flows.		See project list #3.2b						W/ WDFW, LANDOWNERS			
	Strategies and/or Actions ENT: ENHANCE DOW NHANCE DEGRADED Implement conservation plan with secondary benefits to improve instream	On-going Strategies and/or Actions ENT: ENHANCE DOWNS NHANCE DEGRADED BU Implement conservation plan with secondary benefits to improve instream	On-going and/or Strategies and/or Actions Actions Immediate Priorities ENT: ENHANCE DOWNSTREAM REACHES ANI INHANCE DEGRADED BUT FUNCTIONAL AQUA Implement conservation plan with secondary benefits to improve instream	On-going and the secondary benefits to improve instream and the secondary benefits to improve instream	Timelines/Milestones On-going Strategies and/or Actions and b and b and b Mid - Term Actions 3 - 5 Years ENT: ENHANCE DOWNSTREAM REACHES AND CONNECT ASSOCIATE INHANCE DEGRADED BUT FUNCTIONAL AQUATIC HABITATS Implement See project list #3.2b Implement See project list #3.2b	Timelines/Milestones On-going Strategies and/or Actions and book an	Timelines/Milestones On-going Strategies and/or Actions and b and b Mid - Term Actions 3 - 5 Years and b Long - Term Actions ENT: ENHANCE DOWNSTREAM REACHES AND CONNECT ASSOCIATED FLOODPLAINS INHANCE DEGRADED BUT FUNCTIONAL AQUATIC HABITATS Implement See project list #3.2b Implement Implement	Timelines/Milestones On-going Strategies and/or Actions and b Immediate Priorities and b Mid - Term Actions 3 - 5 Years and b Long - Term Actions and b b ENT: ENHANCE DOWNSTREAM REACHES AND CONNECT ASSOCIATED FLOODPLAINS INHANCE DEGRADED BUT FUNCTIONAL AQUATIC HABITATS Immediate Priorities Immediate Prioriti			

	Nile Valley Community Church - Other Responsibilities									
			Timelines	s/N	Vilestones					
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete			Mid - Term Actions 3 - 5 years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed	
GROUND WATER QUAL	ITY: ASSESS SUSC	EP	TIBILITY OF SUPPLIES T	ГC	O CONTAMINATION	1	11			
Conduct level I risk assessment to assess susceptibility of ground water supplies to contamination 6.2a	Done in 2005	x							W/ CHD, ECOLOGY, WDOH	
Produce regional maps showing results of risk assessment 6.2d	Done in 2005	X							W/ CHD, ECOLOGY, WDOH	
GROUND WATER QUAL	LITY: IMPROVE ABIL	ITY	TO DETECT AND MONI	IT(OR IMPACTS TO SUP	PL	IES			
Establish/facilitate short- term monitoring approach to determine baseline conditions of ground water supplies 6.3b			Metering to begin in 2007						W/ CHD, WDOH, ECOLOGY	
GROUND WATER QUAL	ITY: IMPROVE WEL	LH	EAD PROTECTION							
Enforce Wellhead Protection Program requirements for all Group A public water systems 6.4a	Protection in place as far as possible. Contingency plan is to drill new well								W/ WDOH	

		- Lead Resp	oonsibilities				
		Timelines/	Milestones				
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Year 1	Year 2 & 3	comp	Year 4 & 5	comp	Notes

- Other Responsibilities												
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	comp	Year 1	comp	Year 2 & 3	comp	Year 4 & 5	comp	Notes			

	North	Ya	akima Conservation D	istri	ct - Project Lead Res	por	sibilities				
			Timelin	es/N	lilestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid-Term Actions 3 - 5 Years	complete	Long-Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER RE	SOURCES: INSTREAM	ΛF	LOWS ENHANCEMEN	Т							
Assist in identifying areas to enhance flows and support instream flow enhancement efforts 3.1h	By 2009, Cowiche Basin will yield enough water for legal uses and fish and wildlife needs		By 2006 implement programs/actions that benefit instream flows See 3.4b								
SURFACE WATER RE	SURFACE WATER RESOURCES: EFFICIENCY										
Continue working to implement water use efficiency projects through agreements, funding and other actions 3.2b	By 2009, Cowiche Basin will yield enough water for legal uses and fish and wildlife needs		Measure water flows to establish baseline needs Support landowners in meeting water measurement compliance w/ Ecology and WDFW stream flow monitoring						W/ USBR, ID, CITY		
Work with landowners to implement BMPs and projects that improve irrigation and cropland management 3.2c	Provide technical assistance and financial incentives to implement BMPs and projects that improve irrigation efficiency & quality management		Support landowners in development and implementation of on- farm irrigation efficiency and quality improvement projects	(Dngoing						

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	North Y	akima Conservation D	istri	ct - Project Lead Res	spon	sibilities					
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete	Mid-Term Actions 3 - 5 Years	complete	Long-Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER RESOURCES: TRANSFERS											
Explore source substitution 3.4b	By 2009, Cowiche Basin will yield enough water for legal uses and fish and wildlife needs	Put together agreement and implementation project between CCWUG & YTID to develop alternate sources of water									
SURFACE WATER QU	JALITY: PREVENT / MITIC	GATE FOREST IMPACT	ſS								
Implement watershed actions other than forest road/trail management and timber harvest management 5.1c	Develop Firewise policy/program							W/ USFS, LANDOWNERS			
SURFACE WATER QU	JALITY: PREVENT / MITIC	GATE AG IMPACTS	· · ·				1				
Implement BMPs and projects that <u>improve</u> <u>cropland management</u> 5.2b		Implement water quality improvement programs identified by the TMDL						W/ LANDOWNERS, ID, USDA, WSU			

	North Y	akima Conservation D	istri	ict - Project Lead Res	por	sibilities		
		Timelin	es/l	Milestones				
PROPOSED PLAN ACTIONS	On-going B Strategies and/or Actions S	- Immediate Priorities	complete	Mid-Term Actions 3 - 5 Years	complete	Long-Term Actions	complete	Notes Possible Funding Sources Agreements Needed
SURFACE WATER QU	JALITY: PREVENT / MITIO	GATE AG IMPACTS			1			
Implement BMPs and projects that r <u>educe</u> impacts of agricultural chemicals 5.2c		Implement water quality improvement programs identified by the TMDL						W/ ECOLOGY, ID, USDA, LANDOWNERS
Implement BMPs and projects that <u>reduce</u> <u>livestock impacts</u> 5.2d		Implement water quality improvement programs and BMPs identified by the TMDL						W/ ECOLOGY, USDA, LANDOWNERS
	By 2009, have all affected landowners within NYCD in compliance with AFO/CAFO regulations	Staff will attend training sessions and share info w/ NYCD board for dissemination to public Educate affected landowners about AFO/CAFO regulations and responsibilities						

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	North Y	akima Conservation D	istri	ict - Project Lead Res	pon	sibilities						
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete	Mid-Term Actions 3 - 5 Years	complete	Long-Term Actions	complete	Notes Possible Funding Sources Agreements Needed				
SURFACE WATER QUALITY: PREVENT / MITIGATE AG IMPACTS												
livestock impacts 5.2d	within NYCD in	Develop technical and financial assistance programs Provide technical and financial assistance to affected landowners										

	North Yakima Conservation District - Other Responsibilities											
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid-Term Actions 3 - 5 Years	complete	Long-Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER QU	SURFACE WATER QUALITY: INTERAGENCY COORDINATION											
Participate in interagency	By 2007, identify water quality issues that will lead to implementation of corrective actions		Use the current Cowiche Creek Tributary Team as a forum to share info, seek input, etc						W/ ALL AGENCIES			
SURFACE WATER QU	JALITY: IMPROVE UND	DEF	STANDING OF WATE	RS⊦	HED PROBLEMS & SO	DLU	TIONS / TMDLs					
Identify and support efforts to improve cause-effect understanding 5.8a	Assist Ecology in the development and implementation of the Local Tributaries Fecal TMDL process		Identify water quality issues that will lead to implementation of corrective action Encourage Ecology to be specific (i.e., DNA) in identifying fecal sources						W/ USBR, ECOLOGY, WDFW, USGS, USFS			

	Ν	orth Yakima Conservatio	n D	istrict - Other Respor	nsib	ilities				
		Timelin	es/I	Vilestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete	Mid-Term Actions 3 - 5 Years	complete	Long-Term Actions	aNotesaPossible FundingaSourcesaSourcesaAgreements Needed			
SURFACE WATER QUALITY: IMPROVE UNDERSTANDING OF WATERSHED PROBLEMS & SOLUTIONS / TMDLs										
Improve problem/solution definition 5.8b	Provide education to the public/landowners on issues related to water quality (causes, solutions, incentives, etc)	Identify water quality issues that will lead to implementation of corrective action Use the current Cowiche Creek Tributary Team as a forum and the NYCD outreach program					W/ USBR, ECOLOGY, WDFW, USGS, USFS			
	By 2009 have all affected landowners w/in NYCD/s Geographic Priority Areas in compliance w/ AFO/CAFO regulations	Attend training sessions and share info w/ NYCD board about AFO/CAFO regulations								
Expand monitoring activities 5.8c	Evaluate water quality for salmonid suitability	Twice monthly except continuous temp monitors					W/ ECOLOGY			

North Yakima Conservation District - Other Responsibilities									
	Timo	lines/	Milastanas						
On-going Strategies and/or Actions	Immediate Prioritie	s complete	Mid-Term Actions 3 - 5 Years		Long-Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
	DERSTANDING OF WA	TERS	HED PROBLEMS * SOL		ONS / TMDLs				
	the public/landowner on issues related to water quality (cause	rs s,					W/ CITY, WSU, CD		
SURFACE WATER QUALITY: ENSURE STANDARDS REFLECT NATURAL REGIONAL CONDITIONS									
Assist Ecology in development and implementation of the Naches River Temperature TMDL process	By 2007, identify water quality issues that will lead to implementation of corrective actions						W/ ECOLOGY, USFS, USGS		
IENT: PROTECT / ENH	ANCE ANADROMOUS	FISH	MIGRATION CORRIDO	RS					
By 2009, assist all affected landowners w/ compliance issues related to the ESA and state requirements regarding fish species on privately held lands w/in NYCD's Geographic Priority Areas	provide for screened	k		T in S Y In a	ributary Team Plans, mplement appropriate ections of the Yakima Sub-basin Plan, develop neentive programs, and develop technical		W/ USBR, LANDOWNERS, ID WDFW		
	On-going Strategies and/or Actions UALITY: IMPROVE UNI UALITY: IMPROVE UNI UALITY: ENSURE STAI Assist Ecology in development and implementation of the Naches River Temperature TMDL process MENT: PROTECT / ENH By 2009, assist all affected landowners w/ compliance issues related to the ESA and state requirements regarding fish species on privately held lands w/in NYCD's Geographic Priority	TimeOn-going ActionsImmediate PrioritieUALITY: IMPROVE UNDERSTANDING OF WAUALITY: IMPROVE UNDERSTANDING OF WAProvide education to the public/landowne on issues related to water quality (cause solutions, incentivesUALITY: ENSURE STANDARDS REFLECT NAAssist Ecology in development and implementation of the Naches River Temperature TMDL processMENT: PROTECT / ENHANCE ANADROMOUSBy 2009, assist all affected landowners w/ compliance issues related to the ESA and state requirements regarding fish species on privately held lands w/in NYCD's Geographic Priority	Timelines/On-going Strategies and/or Actionsand o oUALITY: IMPROVE UNDERSTANDING OF WATERSUALITY: IMPROVE UNDERSTANDING OF WATERSProvide education to the public/landowners on issues related to water quality (causes, solutions, incentives)UALITY: ENSURE STANDARDS REFLECT NATURAAssist Ecology in development and implementation of the Naches River Temperature TMDL processBy 2007, identify water quality issues that will lead to implementation of corrective actionsIENT: PROTECT / ENHANCE ANADROMOUS FISHBy 2009, assist all affected landowners w/ compliance issues related to the ESA and state requirements regarding fish species on privately held lands w/in NYCD's Geographic PriorityProvide technical assistance and to improve habitat	Timelines/Milestones On-going Actions and be be be Mid-Term Actions 3 - 5 Years UALITY: IMPROVE UNDERSTANDING OF WATERSHED PROBLEMS * SOL Provide education to the public/landowners on issues related to water quality (causes, solutions, incentives) UALITY: ENSURE STANDARDS REFLECT NATURAL REGIONAL CONDITION Assist Ecology in development and implementation of the Naches River Temperature TMDL process JENT: PROTECT / ENHANCE ANADROMOUS FISH MIGRATION CORRIDO By 2009, assist all affected landowners w/ compliance issues related to the ESA and state requirements w/in NYCD's Geographic Priority Provide technical assistance and financial incentives to provide for screened diversions, removal of barriers and to improve habitat	Timelines/Milestones On-going Actions and best of the public/landowners on issues related to water quality (causes, solutions, incentives) Mid-Term Actions 3 - 5 Years and best of the public/landowners on issues related to water quality (causes, solutions, incentives) UALITY: ENSURE STANDARDS REFLECT NATURAL REGIONAL CONDITIONS By 2007, identify water quality issues that will lead to implementation of the Naches River Temperature TMDL process By 2007, identify water quality issues that will lead to implementation of corrective actions By 2007, identify water quality issues that will lead to implementation of corrective actions F By 2009, assist all affected landowners w/ compliance issues related to the ESA and state requirements on privately held lands w/in NYCD's Geographic Priority Provide technical assistance and financial incentives to provide for screened diversions, removal of barriers and to improve habitat F	Timelines/Milestones Timelines/Milestones On-going Actions B b g g g g g Mid-Term Actions 3 - 5 Years B g g g g Long-Term Actions UALITY: IMPROVE UNDERSTANDING OF WATERSHED PROBLEMS * SOLUTIONS / TMDLs Provide education to the public/landowners on issues related to water quality (causes, solutions, incentives) By 2007, identify water quality issues that will lead to implementation of corrective actions By 2007, identify water quality issues that will lead to implementation of corrective actions Fully implement Tributary Team Plans, implement appropriate provide technical assistance and financial incentives to provide for screened diversions, removal of barriers and to improve habitat Fully implement Fully implement assistance programs, and develop technical assistance programs	Timelines/Milestones On-going Strategies and/or Actions Mid-Term Actions 3 - 5 Years 9 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		

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	Ν	orth Yakima Conservation	District - Other Respor	nsibilities						
	Timelines/Milestones									
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	0	Mid-Term Actions 3 -	Long-Term Actions	DescriptionNotesDescriptionPossible FundingDescriptionSourcesDescriptionAgreements Needed					
Improve in-stream flow management 7.3a	By 2009, assist all affected landowners w/ compliance issues related to the ESA and state requirements regarding fish species on privately held lands w/in NYCD's Geographic Priority Areas	NSTREAM REACHES / CC Provide technical assistance and financial incentives to provide for screened diversions, removal of barriers and to improve habitat		Fully implement Tributary Team Plans implement appropriat sections of the Yakima Sub-basin Plan, develop incentive programs, and develop technica assistance programs	e W/ USBR, SOAC, ECOLOGY					
HABITAT ENHANCEM		NSTREAM REACHES / CO DED BUT FUNCTIONAL AC		LOODPLAINS						
Identify and implement actions to improve water quality 7.3c , 7.4c	By 2009, assist all affected landowners w/ compliance issues related to the ESA and state requirements regarding fish species on privately held lands w/in NYCD's Geographic Priority Areas			Fully implement Tributary Team Plans implement appropriat sections of the Yakima Sub-basin Plan, develop incentive programs, and develop technica assistance programs	e W/ ECOLOGY, EPA, ID, LANDOWNERS, USGS, USFS					

North Yakima Conservation District - Other Responsibilities											
Timelines/Milestones											
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid-Term Actions 3 - 5 Years	Long-Term Actions	b) a a b) a b) aNotes b) Possible Funding SourcesSources OAgreements Needed						
HABITAT ENHANCEM	ABITAT ENHANCEMENT: ENHANCE DOWNSTREAM REACHES / CONNECT ASSOCIATED FLOODPLAINS ENHANCE DEGRADED BUT FUNCTIONAL AQUATIC HABITATS										
Identify and implement actions for riparian area improvement 7.3d, 7.4d	By 2009, assist all affected landowners w/ compliance issues related to the ESA and state requirements regarding fish species on privately held lands w/in NYCD's Geographic Priority Areas	Provide technical assistance and financial incentives to provide for screened diversions, removal of barriers and to improve habitat		Fully implement Tributary Team Plans, implement appropriate sections of the Yakima Sub-basin Plan, develop incentive programs, and develop technical assistance programs	W/ LANDOWNERS, USFS, WDFW						

		Roza Irrigation Distri	ct -	Project Responsibilities						
Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions		complete	Mid - Term Actions 3 - 5 Years	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER RE	ESOURCES: EFFICIENC	1	1			1				
Implement water use efficiency projects, including establishing agreements and design and construction 3.2b	Enclosed Conduit System (ECS) \$1,200,000/year 10-12 miles pipe/year	Ongoing		Ongoing	Ongoing		W/ Roza Irrigation District funds \$1,200,000/year			
				Re-regulation reservoir 1,200 ac-ft about \$10,000,000			Currently in land acquisition, may be delayed. Roza Irrigation District funds			
	Retrofit existing flashboard checkstructures with automated Langemann Gates	Mile post 62.4 \$75,000					W/ Roza Irrigation District funds			
	Apply hydrolastic to cracks of concrete lining to seal up leaks	Mile post 60.8		Mile post 61.8	Ongoing, to be determined where		W/ Roza Irrigation District funds This is a type of polyurea with expected life well over 15 years			

			Roza Irrigation Distr	ict	- Other Responsibiliti	es				
Timelines/Milestones										
PROPOSED PLAN ACTIONS		complete	Immediate Priorities	complete §		complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed	
SURFACE WATER RE	SOURCES: EFFICIENC	CY	(CONT)	1						
Work with landowners to implement BMPs and projects that improve irrigation and cropland management 3.2c	Improve on-farm delivery and crop irrigation efficiency		RSBOJC On-Farm Loan Program, convert from rill to BMP		RSBOJC On-Farm Loan Program, convert from rill to BMP		RSBOJC On-Farm Loan Program, convert from rill to BMP		Loan account: \$4,000,000	
GROUND WATER RE	SOURCES: MANAGEM	EN	Т			÷		÷		
Track progress of USGS Study and provide input to its application and associated policy decisions 4.1a	Annual updates w/ YBWRA Board		Ongoing 2008 completion date						W/ CA, CITY, CNTY, ECOLOGY	

Roza Irrigation District - Other Responsibilities											
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	I Imelin D C S Immediate Priorities	Mid - Term Actions 3 - 5 Years	Long - Term Actions	2 Notes Possible Funding Sources Agreements Needed						
GROUND WATER RESOURCES: MANAGEMENT											
Participate in the development of any programs pertaining to the use and management of ground water rights in Yakima Basin, consistent with Watershed Plan, Alternative II-2 (Selective Restrictions on New Ground Water Development) 4.1c			Address ground water policy w/ WRAC upon completion of study		W/ ECOLOGY, CITY, CNTY, LANDOWNERS						
SURFACE WATER QU	IALITY: PREVENT / MI	TIGATE AG IMPACTS									
Improve irrigation management to prevent/mitigate agricultural impacts 5.2a		RSBOJC On-Farm Loan Program, convert from rill to BMP	RSBOJC On-Farm Loan Program, convert from rill to BMP	RSBOJC On-Farm Loan Program, convert from rill to BMP	W/ RSBOJC, ECOLOGY, LANDOWNERS \$4,000,000						

		Roza Irrigation Distr	ict - Of	ther Responsibilitie	es					
Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER QU	JALITY: PREVENT / MITI	GATE STORMWATER I	MPAC	TS						
Plan/implement municipal stormwater runoff controls 5.3a	Ongoing coordination with city of Sunnyside; planning & implementing stormwater controls	Plan development Design public education program	Ad	ventory inlets Iminister public ucation program				RSBOJC		
HABITAT: ENHANCE	ANADROMOUS FISH MI	GRATION CORRIDORS	;							
Support passage barrier improvements to protect and enhance anadromous fish migration corridors 7.2c	Participate with SVID in RSBOJC fish barrier project	 Obtain permits for fish barrier, end of Sulphur Drain \$346,000 Construction in 2008 	Su	sh Barrier, end of Iphur Drain 46,000 (if delayed)				W/ USBR, RSBOJC Will be done in 2007/2008 winter if permits are acquired in time, otherwise will be done 2008/2009 winter		

	Roz	a S	unnyside Board of Jo	oint	Control - Lead Respo	nsi	bilities				
Timelines/Milestones											
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER: E	FFICIENCY					1		1			
Work with USBR to implement water use efficiency projects, including establishing agreements and design and construction 3.2a	See SVID and Roza spread sheets for details								W/ USBR-YRBWEP (CAG)		

	Roza-S	Sunnyside Board of Jo	int	Control - Other Respo	ons	ibilities					
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions		complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER QU	JALITY: PREVENT / MITIO	GATE AG IMPACTS		r.		L	1				
Improve irrigation management to prevent/mitigate agricultural impacts 5.2a	Provide w/ Ecology on- farm conversion loan prog: \$1200/acre @1%, 4-yr repayment to convert rill irrigation to BMP irrigation or pump-back systems	Administer irrigation improvement loans		Ongoing		Ongoing		Funding: ECOLOGY (~\$8.5 M in loans administered by RSBOJC in recent years) W/ CD, WSU, USDA, LANDOWNERS			
Address livestock impacts (CAFOs) 5.2d	Reduce livestock impacts	On-Farm Loan Program, convert from rill to BMP		On-farm Loan Program, convert from rill to BMP		On-farm Loan Program, convert from rill to BMP		CCW loan account \$4,000,000			
SURFACE WATER QU	JALITY: STORMWATER				1						
Plan/implement municipal stormwater runoff controls 5.3a	Ongoing coordination with city of Sunnyside; planning & implementing stormwater controls	Plan development Design public education program		Inventory inlets Administer public education program		Other implementation					

	Roza	a-Sunnyside Board of Jo	int Control - Other Respo	onsibilities							
	Timelines/Milestones										
PROPOSED PLAN ACTIONS		D Immediate Priorities	Mid - Term Actions E 3 - 5 Years ERSHED PROBLEMS & SO	Long - Term Actions	a)Notesa)Possible Fundingb)Sourcesc)Agreements Needed						
Expand monitoring activities 5.8c	Long-term monitoring of major canal diversions and mouths of major irrigation return drains	Monitor every other week during irrigation season (weekly @ Granger Drain). Monthly during non- irrigation season									
	Artificial wetlands treatment effectiveness	Monitor every other week									
	NPDES permit compliance	Monitor during treatment. Generally one or more waterways are treated each week from late May to early Sept.									
SURFACE WATER Q	UALITY: ENSURE STAN	DARDS REFLECT NATU	RAL REGIONAL CONDITI	ONS							
Define background turbidity levels to ensure water quality standards reflect natural regional conditions 5.9b	\$150K/year	\$150K/year	\$150K/year	150K/year	Roza & SVID funding- USBR Nutrient Testing						

	Roz	a-Sunnyside Board of Jo	oint Control - Other Respo	onsibilities							
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid - Term Actions 3 - 5 Years	Long - Term Actions	ع المراجع ا مراجع المراجع ال مراجع المراجع ال مراجع المراجع المر مراجع المراجع المراجع المراجع المراجع المراجع المراح						
HABITAT: ENHANCE	ANADROMOUS FISH	MIGRATION CORRIDORS	S								
Support passage barrier improvements to protect and enhance anadromous fish migration corridors 7.2c	Sulphur Creek Wasteway Fish Barrier	Design 2007 Construction 2008			YRBWEP \$200K RSBOJC \$100K						

	South Central Washi	ngt	on Resource Conserv	atic	on & Development - P	roj	ect Lead Responsibilities	5
			Timelin	es/I	Vilestones			
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions /	Notes Possible Funding Sources Agreements Needed
SURFACE WATER RE	SOURCES: EFFICIEN	CY					1	T
Work with USBR to implement water use efficiency projects, including establishing agreements, design and construction 3.2a	Education Project to introduce "Soil Moisture Monitoring Techniques"		Communicate with USBR re further work on project & funding. Form "Bridging Headgate" regional team					W/ USBR (\$55K for 2 yrs), SYCD, RID, LANDOWNERS
Continue working with irrigation districts to implement water use efficiency projects through agreements, funding and other actions 3.2b	See 3.2a							W/ USBR, RID
Work with landowners to implement BMPs and projects that improve irrigation and cropland management 3.2c	See 3.2a		Associated benefits at Irrigation District Level. Associated benefits at farm level.					

	South Central Washi	ngt	on Resource Conserv	atio	on & Development - P	roje	ect Lead Responsibilit	ies			
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER RE	SOURCES: PUBLIC E	DU	CATION	1 1				1			
Design and implement a public education program to support water quantity actions 3.5a	See 3.2a										
SURFACE WATER QU	JALITY: PREVENT / MI	TIG	ATE AG IMPACTS					ı			
Implement Best Management Practices (BMPs) and projects that <u>improve</u> <u>irrigation management</u> consistent with water quality and habitat strategies 5.2a	introduce soil moisture		Associated water quality benefits						W/ LANDOWNERS, ID, USDA, WSU		
Implement BMPs and projects that <u>improve</u> <u>cropland management</u> consistent with water quality and habitat strategies 5.2b	implemented outreach	x							KCCD W/ NRCS, LANDOWNERS		

	South Central Washi	ngt	on Resource Conserva	atio	on & Development - P	roje	ect Lead Responsibiliti	es			
			Timeline	es/l	Milestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed		
HABITAT: PROTECT	HABITAT: PROTECT / ENHANCE ANADROMOUS FISH MIGRATION CORRIDORS										
Flow related actions 7.2.a	Administration & oversight of Yakima Tributary Access & Habitat Program (YTAHP)		Implement 07 Scope of Work		Continue through 09		Seek additional funds		Funded to 09 W/ BPA, WDFW, CDS & LANDOWNERS		
HABITAT: IMPROVE I	HABITAT: IMPROVE INFORMATION BASE										
Assess and monitor aquatic habitats 7.6 a & b	YTAHP (team) Inventory 280 miles of Tribs in Yakima & Kittitas Counties 04	x	Refine database & prioritize actions / projects						W/ BPA, CD, WDFW, ID, LANDOWNERS		
			Ongoing monitoring				Seek funding		W/ BPA, CD, WDFW, ID, LANDOWNERS		
FOCUS ON HABITAT	CONDITION TO MEAS	UR	E EFFECTIVENESS OF	= E	NHANCEMENT ACTIO	NS					
Focus on habitat conditions 7.7a.	YTAHP Ongoing effectiveness monitoring		Seek funding and refine protocol						W/ BPA, WDFW, CD, ID, LANDOWNERS		

South Central Was	hington Resource Con	serv	vation & Development	- C	Other Responsibilities		
	Timeliı	nes/l	Milestones				
On-going Strategies and/or Actions		complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed
JALITY: PREVENT / MIT	IGATE AG IMPACTS			1		1	
"PAM" project for sediment control	Established program for use as needed.						W/ KCCD, LANDOWNERS
Sponsored E-Coli genetic typing to identify sources	More funding & method of quantifying results						W/ SYCD (Lead)
BMPs related to wind erosion in Horse Heaven Hills	Develop landowner base & innovative practices						W/ BCD (lead)
JALITY: INTERAGENCY	COORDINATION				1		
WRAC member	Ongoing						
	On-going Strategies and/or Actions End JALITY: PREVENT / MITI "PAM" project for sediment control x Sponsored E-Coli genetic typing to identify sources a BMPs related to wind erosion in Horse Heaven Hills a JALITY: INTERAGENCY b	On-going Strategies and/or Actions and bego Immediate Priorities JALITY: PREVENT / MITIGATE AG IMPACTS "PAM" project for sediment control x Established program for use as needed. Sponsored E-Coli genetic typing to identify sources More funding & method of quantifying results BMPs related to wind erosion in Horse Heaven Hills Develop landowner base & innovative practices JALITY: INTERAGENCY COORDINATION Immediate Priorities	On-going Strategies and/or Actions and begin{tituesback}{llllllllllllllllllllllllllllllllllll	Timelines/Milestones On-going Strategies and/or Actions and be get get Immediate Priorities and be get get for Mid - Term Actions 3 - 5 Years JALITY: PREVENT / MITIGATE AG IMPACTS Immediate Priorities and be get for use as needed. Immediate Priorities and be get for use as needed. Immediate Priorities and be get for use as needed. Immediate Priorities <	Timelines/Milestones On-going Strategies and/or Actions and b b c and b c and c and c and and c and c	On-going Strategies and/or Actions B B Immediate Priorities B B Mid - Term Actions 3 - 5 Years B B Long - Term Actions / Objectives JALITY: PREVENT / MITIGATE AG IMPACTS ************************************	Timelines/Milestones Timelines/Milestones On-going Strategies and/or Actions and below Immediate Priorities and below Mid - Term Actions 3 - 5 Years and below Long - Term Actions / Objectives and below JALITY: PREVENT / MITIGATE AG IMPACTS Immediate Priorities and below Immediate Priorities Immediate Pri

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	South Central Washington Resource Conservation & Development - Other Responsibilities										
		Timelin	مد/	Milestones							
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions S	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER QU	JALITY: IMPROVE UNDER	RSTANDING OF WATE	RS	HED PROBLEMS & SC)LU	TIONS / TMDLs	1				
Improve cause-effect understanding 5.8.a	Granger Drain E-Coli TMDL participant	Ongoing implementation						W/ ECOLOGY (LEAD) SVID, SYCD			
HABITAT: PROTECT	HABITAT: PROTECT EXISTING HIGH QUALITY HABITATS										
Road/trail impact management 7.1a	Work to remove barriers (culverts) associated w/ roads										
Watershed headwaters protection and projects 7.1b	Grants from SRFB	ESA, anadromous salmon						SRFB			
HABITAT: PROTECT	ENHANCE ANADROMOU	JS FISH MIGRATION C	OR	RIDORS							
Flow related actions 7.2a	Screening	Design & install technically approved intake screens						W/ WDFW, NOAA, LANDOWNERS			
Identify and implement <u>water</u> <u>quality</u> actions to protect and enhance anadromous fish migration corridors 7.2b	Feasibility work on removal of Water Stargrass in mainstem Yakima							W/ BCD, SYCD, IDs			

	South Central Washington Resource Conservation & Development - Other Responsibilities										
		Timelines/	Milestones								
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Supplete Sup	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions / Objectives	Description Descr					
HABITAT: PROTECT	/ ENHANCE ANADROM	IOUS FISH MIGRATION COR	RIDORS	1		1 1					
Passage barrier improvements 7.2c	Barrier removal to allow fish passage					W/ WDFW, NOAA, LANDOWNERS					
	Assist all affected landowners w/ compliance issues related to ESA and state requirements regarding fish species on privately held lands w/in geographic priority areas	Provide technical assistance and financial incentives to provide for screened diversions, removal of barriers and to improve habitat			Fully implement Tributary Team Plans, appropriate sections of Yakima sub-basin plan, develop incentive programs, and technical assistance programs	BPA, SRFB					
HABITAT: ENHANCE	DOWNSTREAM REAC	HES & CONNECTED ASSOC	IATED FLOODPLAINS	IN	TRIBUTARY MAINSTE	MREACHES					
Improve off-channel connectivity 7.3b	Remove irrigation diversions which may impede off-channel habitat and replace with updated structures					BPA, SRFB					
HABITAT: ENHANCE	DEGRADED BUT FUNC	CTIONAL AQUATIC HABITAT	S	1							
Improve off-channel connectivity 7.4b	See 7.3b					BPA, SRFB					

South Central Washington Resource Conservation & Development - Other Responsibilities												
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed			
HABITAT: ENHANCE	HABITAT: ENHANCE DEGRADED BUT FUNCTIONAL AQUATIC HABITATS											
Riparian area improvement 7.4d	Enhance riparian conditions associated with barrier and screening projects as well as projects for bank stabilization and shading											

	South	n Ya	akima Conservation D	istr	ict - Project Lead Res	роі	nsibilities			
			Timelin	es/	Milestones					
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed	
SURFACE WATER QU	SURFACE WATER QUALITY: PREVENT / MITIGATE AG IMPACTS									
Implement Best Management Practices (BMPs) and projects that improve irrigation management consistent with water quality and habitat strategies 5.2a	 Continue to assist landowners to implement conservation plans and BMPs Continue to promote irrigation improvements 		Implement the TMDLs in Transition Grant				Continue water quality improvements by lowering concentrations of contaminants in irrigation return flows by 2011		W/ LANDOWNERS, ID, USDA, WSU	
projects that <u>improve</u> cropland management	 Improve understanding of fate and transport of various contaminants Continue to assist landowners to implement conservation plans and BMPs 		Obtain state and federal funding for implementation of BMPs		Continue to obtain state and federal funding		Continue water quality improvements by lowering concentrations of contaminants in irrigation return flows by 2011		W/ LANDOWNERS, ID, USDA, WSU	

	South Yakima Conservation District - Project Lead Responsibilities										
			Timelin	es/	Milestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete		complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER QU	SURFACE WATER QUALITY: PREVENT / MITIGATE AG IMPACTS										
projects that <u>reduce</u> <u>impacts of agricultural</u> <u>chemicals</u> consistent with water quality and	 Improve understanding of fate and transport of various contaminants Continue to assist landowners to implement conservation plans and BMPs 						Continue water quality improvements by lowering concentrations of contaminants in irrigation return flows by 2011		W/ ECOLOGY, ID, USDA, LANDOWNERS		
projects that <u>reduce</u> livestock impacts	 Improve understanding of fate and transport of various contaminants Continue to assist landowners to implement conservation plans and BMPs 		Continue to follow-up with nutrient management in the Livestock Program				Continue water quality improvements by lowering concentrations of contaminants in irrigation return flows by 2011		W/ ECOLOGY, USDA, WDOA, LANDOWNERS		

	South Yakima Conservation District - Project Lead Responsibilities										
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete iN	id - Term Actions 3 - 5 Years	complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER QUALITY: IMPROVE UNDERSTANDING OF WATERSHED PROBLEMS & SOLUTIONS / TMDLs											
Identify and support efforts to improve cause-effect understanding 5.8a	Co-lead with BCD on lower Yakima River Eutrophication Study	Staff work with partners in researching and developing methods of river and stream water quality improvement	eutre	nplete rophication study BCD		Continue water quality improvements by lowering concentrations of contaminants in irrigation return flows by 2011		W/ SYCD, ECOLOGY, USGS CCW Grant \$			

South Yakima Conservation District - Other Responsibilities											
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER: EFFICIENCY											
Implement water use efficiency projects through agreements, funding and other actions 3.2b	Maintain public awareness of programs for on-farm water conservation practices		 Continue district newsletter with information updates Conduct irrigation system efficiency analysis Seek funding for irrigation efficiency 				Promote on-farm conservation practices		W/ ID, USBR, CITY		
SURFACE WATER RE	SOURCES: STORAGE	E / F	PUBLIC EDUCATION								
Design & implement a communication / public education program related to surface water resources 3.5a	Maintain public awareness of need for storage alternatives		Continue district newsletter with information updates		Annual newsletter		Promote new water storage sources		W/ ECOLOGY, USBR, YBSA		

	Sout	h Yakima Conservatio	n D	istrict - Other Responsi	bilities		
		Timelin	es/	Milestones			
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions Strategies and/or Actions	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed
SURFACE WATER Q	UALITY: INTERAGENCY C	OORDINATION					
Participate in interagency coordination forum 5.7a	 Develop proactive strategies to make non local decision making processes more realistic for local landowners Showcase district progress 	Participate in WRAC Maintain contact with legislatures			By the end of 5 years, we will have at least maintained current local control of resource management		W/ ALL AGENCIES
SURFACE WATER Q	UALITY: IMPROVE UNDEF	RSTANDING OF PROB	LEN	MS & SOLUTIONS / TMD	Ls	1	
Identify and support efforts to improve cause-effect understanding of watershed problems and solutions 5.8a	Participate in TMDL development, monitoring and compliance	Investigate and substantiate local findings to maintain local control of resource management					W/ USBR, ECOLOGY, WDFW, USGS, USFS
Improve problem/solution definition 5.8b	Participate in TMDL development, monitoring and compliance						W/ USBR, ECOLOGY, WDFW, USGS, USFS
Support efforts to expand monitoring activities 5.8c	Support basin-wide monitoring activities	Conduct water quality monitoring workshop		Follow-up water quality monitoring workshop			W/ ECOLOGY USGS, WDFW, USFS
1							

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South Yakima Conservation District - Other Responsibilities										
		Timelin	<u></u>	Milestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete		complete	Long - Term Actions / Objectives	complete	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER QU	JALITY: MINIMIZE WA	TER RESOURCE IMPACT	S C	N QUALITY		1	1			
Assess groundwater impacts on surface water 5.10b	Interact with other agencies to compile relevant data	Communicate with other agencies to collect ground water information				Determine ground water contribution to surface water quality				
GROUND WATER QUALITY: IMPROVE UNDERSTANDING & AWARENESS OF DRINKING WATER ISSUES										
Provide outlets for ground water protection information 6.1a		Continue district newsletter with information updates						W/ CHD, WSU		
HABITAT: PROTECT I	EXISTING CONDITION	S FROM FURTHER DEGR	RAD	DATION						
Regulate land use 7.5a						Continue to assist land occupiers to comply with regulatory programs under Ecology, WDNR & WDFW		W/ CA, WDFW, ECOLOGY, USFS, CC, CNTY		
HABITAT: IMPROVE I	NFORMATION BASE		1 1				1			
Improve watershed- wide information base 7.6						Provide Salmon in the Classroom with Benton Conservation District		W/ WDFW, ECOLOGY, USFS, CC, SOAC, ID, USGS		

	Sunn	ysi	de Valley Irrigation Di	stri	ct - Project Lead Resp	oon	sibilities		
			Timelin	<u>es/</u>	Milestones				
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete		complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed
SURFACE WATER RE	ESOURCES: EFFICIEN	CY		1	I	1		1	
Work with USBR to implement water use efficiency projects, including establishing agreements and design and construction 3.2a	Sunnyside Canal Improvement Project (SCIP)								W/ USBR-YRBWEP (CAG) Total project \$32M 2005 - 2013 Total conservation 30,000 ac-ft: 20,000 to Instream flows, 10,000 RSBOJC Jr Water Rights
	SCIP reregulation reservoirs: Whitstran MP 59.29 \$6.5M	х	Pumpkin Center MP 23.4 \$6.5M (est.) Design Construction		North Sunnyside MP 23.4 \$6.5M (est.) Design Construction				Funding: Federal USBR, YRBWEP - State Ref 38
	SCIP supervisory control and data acquisition		Design Construction						Funding: Federal USBR, YRBWEP - State Ref 38
	SCIP canal check structures: 30 automated gates to replace flash board checks		Design Construction						Funding: Federal USBR, YRBWEP - State Ref 38

	Sunn	yside Valley Irrigation Dis	trict - Project Lead Resp	oonsibilities							
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid - Term Actions	Long - Term Actions	D Notes D Possible Funding E Sources O Agreements Needed						
SURFACE WATER RESOURCES: EFFICIENCY (CONTINUED)											
Work with USBR to implement water use efficiency projects, including establishing agreements and design and construction 3.2a (cont.)	SCIP Enclosed conduit: Prioritized projects (funding level determines rate of implementation)	X \$0.5 M - 1.0 M/year (~500 ac ft/yr)	\$0.5 M - 1.0 M/year (~500 ac ft/yr)	\$0.5 M - 1.0 M/year (~500 ac ft/yr)	Funding: SVID, state, federal. Source and ratio varies						
	Add re-regulation reservoirs near the tail end of major laterals to recover lateral end spill (funding level determines rate of implementation)	Design Construction			Funding: SVID, state, federal. Source and ratio varies \$2.0M (1000AF)						
Work with landowners to implement BMPs and projects that improve irrigation and cropland management 3.2c	Improve on-farm delivery and crop irrigation efficiency	RSBOJC On-Farm Loan Program, convert from rill to BMP	RSBOJC On-Farm Loan Program, convert from rill to BMP	RSBOJC On-Farm Loan Program, convert from rill to BMP	CCW Loan account \$4,000,000						

	Sunnyside Valley Irrigation District - Project Lead Responsibilities										
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER QU	JALITY: ENHANCEMEN	ΝT									
Identify projects and seek funding for water quality enhancement actions 5.0	Improved water use efficiency leads to improved water quality (see efficiency projects 3.2 a & c)										

	Si	unnyside Valley Irrigation	District - Other Respons	ibilities							
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid - Term Actions 3 - 5 Years	Long - Term Actions	⊕ Notes Possible Funding Sources Agreements Needed						
GROUND WATER RE	SOURCES: MANAGEM	IENT									
Track progress of USGS Study and provide input to its application and associated policy decisions 4.1a	Attend periodic updating meetings with USGS	Track report development Report due 2008	Review technical report		W/ CA, CITY, CNTY, ECOLOGY						
Design and establish improved system for monitoring and managing aquifer water levels over the long term 4.1b	Participate in committee to design & review monitoring progress		To be determined		W/ ECOLOGY, CITIES, CNTY						

	Sunnyside Valley Irrigation District - Other Responsibilities											
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid - Term Actions E S S S	Long - Term Action	ns e e e e e e e e e e							
GROUND WATER RESOURCES: MANAGEMENT												
Participate in the development of any programs pertaining to the use and management of ground water rights in Yakima Basin consistent with Watershed Plan, Alternative II-2 (Selective Restrictions on New Ground Water Development) 4.1c		Track report development Report due 2008	Recommend policy direction w/ participation in WRAC and Chapter 4 Watershed Plan update		W/ ECOLOGY, CITY, CNTY, LANDOWNERS							
SURFACE WATER QU	JALITY: PREVENT / MI	TIGATE AG IMPACTS										
Improve irrigation management to prevent/mitigate agricultural impacts 5.2a	Improve on-farm delivery and crop irritation efficiency	RSBOJC On-Farm Loan Program, convert from rill to BMP	RSBOJC On-Farm Loan Program, convert from rill to BMP	RSBOJC On-Farm Loan Program, convert from rill to BMP	CCW Loan account \$4,000,000							

	S	uni	nyside Valley Irrigation	ו D	istrict - Other Respons	sibi	lities					
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER QU	JALITY: PREVENT / MI	TIG	ATE STORMWATER I	MP	ACTS	1 1		1				
Plan/implement municipal stormwater runoff controls 5.3a	Ongoing coordination with city of Sunnyside: planning & implementing stormwater controls		Plan development Design public education program		Inventory inlets Administer public education program		Other implementation					
HABITAT: PROTECT	ENHANCE ANADROM	101	IS FISH MIGRATION C	OR	RIDORS							
Support passage barrier improvements to protect and enhance anadromous fish migration corridors 7.2c	Participate in RSBOJC Sulphur Creek Wasteway passage barrier project		See RSBOJC #7.2c						W/ USBR, LANDOWNERS, WDFW, ROZA ID			

	Us	6 Bi	ureau of Reclamation - P	rc	oject Lead Responsib	iliti	es		
Timelines/Milestones									
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	number	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	Notes Possible Funding Sources Agreements Needed	
SURFACE WATER RE	ESOURCES: STORAGE	- 1				1			
Seek authorization and funding from Congress to conduct feasibility studies, prepare environmental review, 3.1b	Yakima Basin Storage Study Start 2003				Authorization to be determined - 2009			*W/ ECOLOGY (SEPA), YBSA	
Obtain permits (including ESA Section 7 consultation) and design and construct recommended storage project(s), consistent with recommended surface water strategy, Alternative I-1 3.1b	Future if required				To be determined			W/ ECOLOGY, YBSA	
SURFACE WATER RE	ESOURCES: STORAGE					1			
Complete Yakima Basin Storage Study 3.1d.1			Feasibility Study (FS) & EIS* completed by 2008 Record of Decision					W/ ECOLOGY (SEPA)	

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	US B	ureau of Reclamation - P	oject Lead Responsib	oiliti	es						
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions Strategies and/or Strategies and Strategies and St	Immediate Priorities		complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed				
SURFACE WATER RE	SOURCES: STORAGE	11		1	1						
to enhance <u>instream</u>	Ongoing with FS See Storage Study above	complete W/ FS in 2008					W/ ECOLOGY				
SURFACE WATER RE	SOURCES: EFFICIENCY										
Continue working with irrigation districts to implement water use efficiency projects through agreements, funding and other actions 3.2b	YRBWEP	Ongoing					W/ ECOLOGY FUNDING				
	SVID	See SVID									
	Benton ID	Final design									
	WIP	Possible start?									
	Roza ID	See Roza ID									

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	U	S B	ureau of Reclamation	- Pr	oject Lead Responsib	ilities					
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
SURFACE WATER RE	SURFACE WATER RESOURCES: EFFICIENCY (CONTINUED)										
Continue working with irrigation districts to implement water use efficiency projects through agreements, funding and other actions 3.2b (cont)	Selah-Naches ID		Planning					W/ ECOLOGY, CCW (application)			
	KRD Plan	x	On hold					W/ ECOLOGY			
	Kennewick ID (Pump exchange)		EIS & FS complete 2007 See KID		Record of decision 2008 Seek authorization 2008			Federal USBR funding W/ ECOLOGY (state match)			

		U	S Bureau of Reclamati	on	- Other Responsibilitie	es					
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER RE	URFACE WATER RESOURCES: STORAGE										
Seek authorization and funding from state to match federal funds for storage study 3.1a			Work with Ecology & Legislature for future funding		Work with Ecology & Legislature for future funding				W/ ECOLOGY, YBSA		
SURFACE WATER RESOURCES: WATER RIGHTS TRANSFERS											
	WTWG MOU w/ Ecology to address TWSA & storage	x	Negotiate agreement with Ecology - 2007						W/ ECOLOGY, WTWG, CB		
SURFACE WATER RE	SOURCES: INTERGOVI	ERI	MENTAL COORDINAT	101	& COMMUNICATION	/TA	RGETED PUBLIC OU	JTR	EACH		
Participate in interagency coordination forum 3.5b	Milestone/event reports to agencies & public:		Jan 07 public scoping meeting (Round Table) monthly reports Draft EIS 12/07 Final EIS 12/08	x					W/ ALL AGENCIES		
	CAG		Semi-annual meetings								
	WTWG		Monthly meetings								
	Dam passage		Monthly meetings								

		U	S Bureau of Reclamation	on	- Other Responsibilitie	es					
			—	(5.5							
	1	1	Timelines	/M	ilestones		1				
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete		complete		/ igreenienie needed			
SURFACE WATER RE	SURFACE WATER RESOURCES: INTERGOVERNMENTAL COORDINATION & COMMUNICATION/TARGETED PUBLIC OUTREACH										
Participate in interagency coordination forum 3.5b, (cont)	System Operations Advisory Committee (SOAC)		Recommend instream flows to maintain fish life in the Yakima Basin		Roza Dam passage review		Monitor YRBWEP - acquired water				
	River Operations Work Group (ROWG)		Monthly updates								
GROUND WATER RE	SOURCES: MANAGEME	NT									
Track progress of USGS Study and provide input to its application and associated policy decisions 4.1a	USGS Study		Assess implications upon study completion - 2008					W/ USGS, ECOLOGY,			
	Support Frank Spane, Pacific Northwest Laboratories		Quarterly meetings Complete study 2008		Future ground water management policy decisions			USGS \$ to 20,000/year			
SURFACE WATER Q	UALITY: IMPROVE UNDE	RS	TANDING OF PROBLE	MS	& SOLUTIONS						
Identify and support efforts to improve cause-effect understanding 5.8a	Cooperate with water quality monitoring See SYCD							W/ CDs, ECOLOGY, WDFW, USGS, USFS, ID			

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		U	S Bureau of Reclamation	on ·	- Other Responsibilitie	es					
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete		complete		complete	Notes Possible Funding Sources Agreements Needed		
SURFACE WATER QUALITY: IMPROVE UNDERSTANDING OF PROBLEMS & SOLUTIONS (CONTINUED)											
Support efforts to expand monitoring activities 5.8c	Reclamation lab		ongoing		ongoing		ongoing		W/ CDs, ECOLOGY, USGS, CD, WDFW, USFS, ID (\$20,000/yr lab?)		
	River operations - monitor ambient temperature, Q		Real time								
	FS - Model development		Temp: daily Sediment: seasonal								
HABITAT: PROTECT	& ENHANCE ANADROMO	วมร	S FISH MIGRATION CO	RR	IDORS	1	1	1			
Support flow-related actions to protect and enhance anadromous fish migration corridors 7.2a	Storage feasibility study EDT & Wetted perimeter analysis (5 area habitat improvement)		Ongoing		Ongoing		Ongoing		W/ ECOLOGY, WDFW, SOAC		
	Ongoing acquisition program for priority reaches		Ongoing		Ongoing		Ongoing		YRBWEP funding		

		US Bureau of Reclamation	on - Other Responsibilitie	es							
	Timelines/Milestones										
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid - Term Actions 3 - 5 Years	Long - Term Actions	pNotesaPossible FundingaSourcesBAgreements Needed						
ABITAT: PROTECT & ENHANCE ANADROMOUS FISH MIGRATION CORRIDORS											
Support passage barrier improvements 7.2c	Reservoir dam passage study (tech feasibility study)	Complete Feasibility Study spring 2008	EIS to follow reintroduction plan		W/ FED/STATE AGENCIES, ID, OTHER STAKEHOLDERS						
	Coordinate with fish co- managers and others on comprehensive fish plan	Coordinate with fish co- managers and others on comprehensive fish plan	W/ environmental (SEPA/NEPA) documentation - 2009		Yakama Nation & WDFW						
	Other Roza Dam - passage improvement/ enhancement	Final design - 2007	Budget 2010 (?)		Funding: BPA & others \$?						
	YTID diversion dam - passage improvement /enhancement	Bid 2007 Construction 2007/8			Funding: USBR \$?						
	Amon Creek Wasteway issue resolution on barrier v passage	Assessment & Planning	Future design	Future construction	W/ KID						

		U	S Bureau of Reclamat	ion	- Other Responsibilition	es						
			Timeline	s/Mi	lestones							
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
	HABITAT: ENHANCE DOWNSTREAM REACHES & CONNECT ASSOCIATED FLOODPLAINS HABITAT: ENHANCE DEGRADED BUT FUNCTIONAL AQUATIC HABITATS											
Improve in-stream flow management to enhance downstream reaches and connect associated floodplains and to enhance degraded but functional aquatic habitats 7.3a, 7.4a	Ongoing with FS See Storage Study above		See Yakima Basin Storage Feasibility Study 3.1b Round Table confirmation of study criteria	x					W/ ECOLOGY			
	Biological assessment ESA effect decision		NOAA / USFWS Agency review		Biological Opinion NOAA / USFWS				W/ WDFW, SOAC, CC, CD, ID, USFS, USGS, ECOLOGY			
HABITAT: PROTECT	EXISTING HABITAT FRO	MF	URTHER DEGRADAT	ION		1						
Evaluate/regulate water use impacts related to habitat protection 7.5b	Water Transfer Work Group reviews		Water transfers		ongoing				W/ ECOLOGY & OTHERS WTWG MEMBERS			
	River operations work group		Annually review winter incubation flows (flip flop)/spring migration flows (out-migration flows)						W/ SOAC			

		U	S Bureau of Reclamati	on ·	Other Responsibilitie	es		
			Timelines	s/Mi	lestones			
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed
HABITAT: IMPROVE I	NFORMATION BASE						1	
Support habitat assessment to improve watershed- wide information base 7.6a	Stanford Study		Implement FS storage study habitat analysis 12/08					
	YRBWEP		Land-water acquisition		\$ need			W/ CAG
	Feasibility Study - see 3.1d.1 above							
Monitor aquatic habitats to improve information base 7.6b	Ongoing flow monitoring		Ongoing					W/ WDFW, SOAC, CC, CD, ID, USFS, USGS, ECOLOGY
	Dam passage habitat		Assessment for potential benefits Complete FS - 2008		Complete EIS - 2009			W/ WDFW & YAKAMA NATION, USFWS, NOAA, USFS
	Maintain fish counting facilities		Ongoing		Ongoing	Ongoing		YAKAMA NATION & WDFW, USFWS, NOAA

								US Bureau of Reclamation - Other Responsibilities										
	Timelines/Milestones																	
On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed										
HABITAT: ENSURE STANDARDS REFLECT NATURAL REGIONAL CONDITIONS																		
torage feasibility study Aodel temperature elow reservoirs & in wer river system)		(EDT input) - 2008 River operations modeling (improve						W/ ECOLOGY, WDFW, USFS, USGS, CD										
tc A	Strategies and/or Actions	Drage feasibility study odel temperature low reservoirs & in ver river system)	DARDS REFLECT NATURAL REGIONAL CONI Model flow releases (EDT input) - 2008 low reservoirs & in River operations	Actions8NDARDS REFLECT NATURAL REGIONAL CONDITIONprage feasibility study odel temperature low reservoirs & in ver river system)Model flow releases (EDT input) - 2008 River operations modeling (improve	Actions 8 NDARDS REFLECT NATURAL REGIONAL CONDITIONS Drage feasibility study odel temperature low reservoirs & in ver river system)	Actions888NDARDS REFLECT NATURAL REGIONAL CONDITIONSbrage feasibility study odel temperature low reservoirs & in ver river system)Model flow releases (EDT input) - 2008 River operations modeling (improveImage: Constraint operations modeling (improve	Actions 8 8 NDARDS REFLECT NATURAL REGIONAL CONDITIONS Drage feasibility study odel temperature low reservoirs & in ver river system) Model flow releases (EDT input) - 2008	Actions8888NDARDS REFLECT NATURAL REGIONAL CONDITIONSbrage feasibility study odel temperature low reservoirs & in ver river system)Model flow releases (EDT input) - 2008 River operations modeling (improveImage: Constant operation operat										

		US Forest Service - Pr	oje	ect Lead Responsibilit	ies	
		Timelin	es/	Milestones		
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete		Long - Term Actions	Notes Funding Medium or long-term actions
SURFACE WATER QUALI	TY: PREVENT / MITIG	ATE FOREST IMPACTS	S		1 1	
Improve forest road / trail management 5.1a	Implement new Off-Highway Vehicle Policy	Identify appropriate trails and uses		Complete NEPA by 2009	Annually update	W/ WDNR, LANDOWNERS
	Implement FS/Ecology MOA for Clean Water Act compliance	Annually prioritize road maintenance and stabilization needs		Continue road analysis and management plans	Implement road improvement projects	W/ ECOLOGY
Improve timber harvest management 5.1b	NEPA planning process for project design	Ongoing				W/ WDNR, LANDOWNERS
	Design and implement BMP's for harvest activities	Contract administration for currently active sales		Monitor implementation and effectiveness	Refine BMP's	
Other watershed actions 5.1c	Fuel treatment to restore natural fire regime	Reduce wildfire risk in urban interface areas		Continue planning and implementation for treating approx. 5,000 acres per year	Maintain wildfire risk reduction by periodic prescribed burning	W/ WDNR, LANDOWNERS

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	US Forest Service - Project Lead Responsibilities										
		Timelin	es/	Milestones		I	r r				
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	- Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Funding Medium or long-term actions			
SURFACE WATER QUALIT	Y: PREVENT / MITIG	ATE RECREATION IMP	PAC	CTS							
Improve recreation use management 5.5a	Respect the River Program	Summer season contact ranger for information and enforcement of low impact camping									
SURFACE WATER QUALITY: IMPROVE UNDERSTANDING OF WATERSHED PROBLEMS AND SOLUTIONS											
Expand monitoring activities 5.8c	Monitor ambient stream temperature	Continuous monitoring June - October		Ongoing							
	Forest plan compliance in cooperation w/ Yakama Nation	Monitor fine sediment in spawning gravels in late summer annually		Ongoing		Identify projects or management actions to stabilize or reduce levels of fine sediment					
FISH HABITAT ENHANCEM	IENT: PROTECT EXI	STING HIGH QUALITY	HA	BITATS	1	I	1 1				
Road / trail impact management 7.1a	Identify sediment sources and fish passage barriers	Annual road/trail condition surveys		Plan improvement projects		Removal of significant passage barriers		W/ WDNR, PTC			
Watershed headwaters protection and projects 7.1b	Manage wilderness areas to protect water quality and aquatic resources	Monitor impacts of recreation use		Identify areas needing restoration		Develop restoration projects and adjust management to mitigate impacts from high use		W/ WDNR, PTC, CNTY			

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			US Forest Service - Proje	ect Lead Responsibilit	ies					
			T '	NA' 1						
PROPOSED PLAN ACTIONS		complete	Immediate Priorities		complete	Long - Term Actions	complete	Notes Funding Medium or long-term actions		
HABITAT ENHANCEMENT:	PROTECT & ENHA	٩N	CE ANADROMOUS FISH	MIGRATION CORRIDO	DRS	3	1			
Regulate land uses 7.2d	Implement forest plan standards for riparian areas		Ongoing			Monitor implementation and effectiveness of standards and BMP's		W/ CNTY, CITY, ECOLOGY, NRCS, WDNR		
HABITAT ENHANCEMENT: ENHANCE DEGRADED BUT FUNCTIONAL AQUATIC HABITATS										
Riparian area improvements 7.4d	Identify and implement restoration projects					Implement projects and management actions to mitigate impacts from increased recreation use		W/ LANDOWNERS, WDNR, CD, WDFW		
HABITAT ENHANCEMENT:	PROTECT EXISTIN	NG	CONDITIONS FROM FU	RTHER DEGRADATIO	N					
Regulate land use 7.5a	Implement forest plan standards for riparian areas		Ongoing					W/ CNTY, CITY, ECOLOGY, NRCS, WDNR		
Focus on non-point pollution 7.5c	Design and implement BMP's for all forest management activities		Ongoing			Monitor implementation and effectiveness of BMP's		W/ CA, WDFW, ECOLOGY, WDNR, CD, CC, CNTY		

			US Forest Service - Pro	oje	ct Lead Responsibilit	ies				
			Timolino	~/	Ailestones					
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete		complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Funding Medium or long-term actions	
HABITAT ENHANCEMENT: IMPROVE WATERSHED-WIDE INFORMATION BASE										
Monitor aquatic habitats 7.6b	Inventory habitat types with stream survey program		Continue to survey uncompleted streams				Repeat on approx. 10 year cycle		W/ WDFW, USBR, SOAC, CC, CD, ID, WDNR, USGS, ECOLOGY	
HABITAT ENHANCEMENT:	MEASURE EFFEC	TI	/ENESS OF ENHANCE	ME	ENT ACTIONS					
Focus on habitat condition 7.7a	Monitor effectiveness of enhancement projects		Monitor recently completed projects				Repeat on 5 to 10 year cycle		W/ WDFW, ECOLOGY, WDNR, CD, CC	
HABITAT ENHANCEMENT:	ENSURE WATER	QL	JALITY & HABITAT STA	ND	OARDS REFLECT NAT	UR	AL REGIONAL CONDI	TIO	NS	
Improve information and criteria 7.8a	Monitor effectiveness of forest plan standards		Annually monitor selected standards				Adjust standards if necessary		W/ ECOLOGY, WDFW, WDNR, USBR, USGS, CD	

		US Forest Service	- C	Other Responsibilities					
		Timelin	es/	Milestones					
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Funding Medium or long-term actions	
SURFACE WATER QUALIT	Y: IMPROVE INTER	AGENCY COORDINATI	ON	1	1	1	1	1	
Improve interagency coordination 5.7a	Participate in interagency workgroups and technical advisory committees	Conduct annual meetings with cooperators and agencies						ALL AGENCIES INVOLVED	
SURFACE WATER QUALITY: IMPROVE UNDERSTANDING OF WATERSHED PROBLEMS AND SOLUTIONS									
Improve cause / effect understanding 5.8a	Participate in TMDL process for 303(d) listings on National Forest lands	Naches temperature TMDL						W/ CD, USBR, ECOLOGY, WDFW, USGS, WDNR	
	Cooperate with FS and university research programs	Ongoing							
SURFACE WATER QUALIT	Y: ENSURE WATER	QUALITY STANDARDS	S RI	EFLECT NATURAL RE	GIC	ONAL CONDITIONS			
Refine water temperature criteria 5.9a	Participate in TMDL process for 303(d) listings on National Forest lands	Naches temperature TMDL		Ongoing		Adjust 303(d) listings to recognize natural conditions		W/ ECOLOGY, USGS, CD	

U .S. Geological Survey - Project Lead Responsibilities										
		Timeline	es/Mi	lestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
GROUND WATER RESOL	URCES: MANAGEME	ENT								
F Groundwater studies 4.1a F S	Hydrogeologic Framework of Sedimentary Deposits in Six Structural Basins, Yakima River Basin. USGS - Scientific Investigations Report 2006-5116	Estimates of Ground- Water Recharge to the Yakima River Basin Aquifer System, Washington, for Predevelopment and Current Land-Use Conditions. USGS - Scientific Investigations Report 2007-5007 Maps showing the depth to the tops of 3 basalt hydrogeologic units and 2 interbeds that are part of the Yakima River Basin Aquifer System, Washington. Report due 3/2008								

	U .S. Geological Survey - Project Lead Responsibilities										
			Timeline	s/Mil	lestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
GROUND WATER RESOURCES: MANAGEMENT											
Groundwater studies 4.1a			Role of shallow groundwater in the movement of pesticides and nutrients to a small agricultural drain in the lower Yakima River Basin, WA. This is a journal article that should be completed by October 2007								
Groundwater studies 4.1a			Water movement within the unsaturated zone in four agricultural areas of the United States. This is a journal article that will be published in the Journal of Environmental Quality. One of the four sites was located in the Granger Drain Basin.								

		U	.S. Geological Survey - F	Pro	oject Lead Responsibiliti	ies	5				
			Timelines	/M	ilestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
GROUND WATER RESOURCES: MANAGEMENT											
Groundwater studies 4.1a	Water levels in land use monitoring wells (row crops and orchards) located in the Columbia Irrigation project.				Will be monitored in July/August over the next 3 - 5 years.						
Groundwater studies 4.1a	A thermal profile method to identify potential ground water discharge areas and preferred salmonid habitats for long river reaches. USGS - Scientific Investigations Report 2006-5136		River-Aquifer interactions along the floodplain in the Yakima River Basin, Washington. Report due 7/2008								

		U.	. S. Geological Survey -	Proj	ect Lead Responsibili	ties					
			Timeline	s/Mil	estones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed		
GROUND WATER RESO	GROUND WATER RESOURCES: MANAGEMENT										
Groundwater studies 4.1a	Estimates of ground water pumpage from Yakima River Basin aquifer system 1960-2000. USGS - Scientific Investigations Report 2006-5205		Background information for the Yakima River Basin aquifer system, WA: Hydrogeologic units, ground-water occurrence, conditions, flow system, use and trends. Report due 3/2008								
Groundwater studies 4.1a	A Deep Percolation Model of Estimating Ground Water Recharge: Documentation of Modules for the Modula Modeling System of the USGS. USGS - Scientific Investigations Report 2006-5318		Analysis of the ground water flow system in the sedimentary deposits for six structural basins using ground water flow models, for predevelopment and current land use-land- cover conditions, Yakima River Basin Aquifer System, WA. Report due 3/2008								

		U	. S. Geological Survey -	Proj	ect Lead Responsibiliti	es						
	Timelines/Milestones											
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed			
GROUND WATER RESC	OURCES: MANAGEN	IEN	Т			1						
Groundwater studies 4.1a			Conceptual model and numerical simulation of the ground-water flow system in the Yakima River Basin Aquifer System, WA. Report due 9/2008									
SURFACE WATER QUA	LITY: IMPROVE UND	DEF	STANDING OF WATER	SHE	D PROBLEMS AND SOL	UT	IONS (TMDLs)					
Improve cause-effect understanding 5.8a	Overview of Agricultural Chemical Transport study Approach to watershed mass budgets. A journal article looking at mass budget of chemical transport in select agricultural systems in the US. One system was in the Granger Drain Basin.		Journal article due by Oct 07									

		U	. S. Geological Survey - P	roj	ect Lead Responsibilit	ies				
			Timelines/	Mil	lestones					
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete		complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	notes<		
SURFACE WATER QUA	LITY: IMPROVE UND	DER	STANDING OF WATERS	HEI	D PROBLEMS AND SOI	LUT	IONS (TMDLs)			
Improve problem / solution definition 5.8b	Environmental Setting report describing Granger drain study area.		This will be published by August 2007							
SURFACE WATER QUA	SURFACE WATER QUALITY: IMPROVE UNDERSTANDING OF WATERSHED PROBLEMS AND SOLUTIONS / TMDLs									
Expand monitoring activities 5.8c	Long-term flow monitoring		Monitor every 6-8 weeks 4 sites are real-time							
	Lower Yakima River Eutrophication Study		Continuous: every 15 minutes Discrete: intermittent					W/ SYCD		
	Develop temperature model for Yakima and Naches Rivers									
HABITAT ENHANCEMEN	NT: IMPROVE INFOR	RMA	ATION BASE			1	1			
Habitat assessment 7.6a	Habitat assessment of Granger Drain NAWQA sites		Granger Drain - Sept 2007							

	v	Nas	shington State Unive	rsit	y - Lead Responsibilit	ies			
			Timeline	s/M	lilestones				
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed
SURFACE WATER RE	SOURCES: EFFICIENCY	(
 Sprinkler uniformity Sprinkler uniformity testing and Irrigation scheduling 		Ongoing Ongoing		Ongoing Ongoing				w/ SYCD	
support of water use efficiency 3.2d	ciency 3.2d 3. Optimum irrigation level	C	Ongoing for mint & canola		Ongoing				
SURFACE WATER QUALITY: PREVENT / MITIGATE AG IMPACTS									
Seek funding for research efforts and work with landowners to implement BMPs and projects that improve irrigation management consistent with water quality and habitat strategies 5.2 a	Associated water quality benefits to: Sprinkler uniformity testing Irrigation scheduling Optimum irrigation level (see 3.2d)								W/ CD, ID, NRCS, LANDOWNERS
	Irrigation timing		Associated water quality benefits						W/ CD, ID, NRCS, LANDOWNERS
	Sprinkler uniformity		Associated water quality benefits						W/ CD, ID, NRCS, LANDOWNERS

	Wa	shington State Univer	sity	/ - Lead Responsibilitie	es		
	T	Timeline	s/M	lilestones		r	
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions S	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	Notes Possible Funding Sources Agreements Needed
SURFACE WATER Q	UALITY: PREVENT / MITIG/	ATE AG IMPACTS					
Seek funding for research efforts and work with landowners to implement BMPs and projects that improve <u>cropland</u> <u>management</u> consistent with water quality and habitat strategies 5.2 b	Air quality Buffers Border strips Rainfall impacts						W/ CD, ID, USDA, LANDOWNERS
Seek funding for research efforts and work with landowners to implement BMPs and projects that reduce livestock impacts (CAFOs) consistent with water quality and habitat strategies 5.2d	Nutrient management BMP for reduced CAFO and dairies waste management	Ongoing technical support of BMP programs		Field investigation			W/ CD, WDOA/ECOLOGY, NRCS, LANDOWNERS

	W	ashington State Unive	rsit	y - Other Responsibilitie	S	
		Timeline	s/M	ilestones	1	
PROPOSED PLAN ACTIONS	On-going and the second	Immediate Priorities	complete	Mid - Term Actions	Long - Term Actions	Notes Possible Funding Sources Agreements Needed
SURFACE WATER RE	ESOURCES: EFFICIENCY					
Work with landowners to implement BMPs and projects that improve irrigation and cropland management 3.2c	Provide technical assistance through conservation districts					W/CAG
SURFACE WATER QU	JALITY: IMPROVE INTERA	GENCY COORDINATIO	ΟN			
Participate in interagency coordination forum 5.7a	Participate in WRAC	Ongoing				W/ ALL PARTICIPATING AGENCIES
SURFACE WATER QU	JALITY: IMPROVE UNDER	STANDING OF WATER	SH	ED PROBLEMS AND SO	LUTIONS /TMDLs	
Improve cause-effect understanding to improve understanding of watershed problems and solutions 5.8a	Participate in WRAC	Ongoing				W/ ALL PARTICIPATING AGENCIES

	W	ashington State Unive	rsit	y - Other Responsibilitie	es		
	<u></u>	Timeline	s/M	lilestones			1
PROPOSED PLAN ACTIONS	On-going dealer Strategies and/or Actions	- Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	Notes Possible Funding Sources Agreements Needed
SURFACE WATER Q	UALITY: IMPROVE UNDER	STANDING OF WATER	RSH	IED PROBLEMS AND SC	DLI	JTIONS /TMDLs	
Improve problem/solution definition 5.8b	Participate in WRAC	Ongoing					W/ ALL PARTICIPATING AGENCIES
Develop public education program about surface water quality 5.8d	Statewide education program on nutrient management BMPs	Ongoing		Ongoing			W/ CD & NRCS
GROUND WATER QU	JALITY: MINIMIZE LAND US	SE IMPACT ON SUPPLI	IES	WITH TECHNICAL MAN	JAC	GEMENT STRATEGIES	5
Minimize impact of land use activities on ground water supplies by implementing technical management strategies 6.5a & b	Associated ground water benefits with surface water See 3.2d						W/ CHD, CD, ECOLOGY, WDOA, NRCS

			Yakima County - Le	ea	d Responsibilities				
	Timelines/Milestones								
PROPOSED PLAN ACTIONS	Ongoing Strategies and Actions	complete	Strategies and Actions Immediate Priorities	T	Mid - Term Strategies and Actions 3 - 5 Years	complete	Long - Term Strategies and Actions	complete	Notes Possible Funding Sources Agreements Needed
ADMINISTRATIVE									.
*Plan Adoption	Plan approved 2005	х	Complete and approve DIP		Review Plan/DIP for needed updates		Review Plan/DIP for needed updates		
*Establish Coordination Agency	Approved Intergovernmental Agreement for Yakima Basin Water Resources Agency (YBWRA)	x	Work with Kittitas County on joining YBWRA						YBWRA/IGA funded @ \$5,000/year (local match) State implementation grant funded @ \$125K/year
*Establish Water Resources Advisory Committee	Obtain implementation grant Support local WRAC Develop DIP		Support development of DIP and establishment of WRAC		Continued support		Continued support		
GROUND WATER RE	SOURCES: MANAGEM	ΕN	Т						
Develop policies or regulations to facilitate establishment of new or expanded public water systems 4.0	GMA review of subdivisions for adequate water supply. Developers have option to construct own community sewer/septic systems to get higher density in some rural zoning districts.		Review land use changes for certification of adequate water supply		In-County discussions re: well use in rural areas for subdivisions, existing undevel. lots, and redevelopment. Consider appropriate changes to policies & regs. Look at linking Utility Planning to development process for smaller devels. like subdivisions.		Participate in the policy discussions surrounding the USGS/USBR/ Yakama Nation/ Ecology Groundwater study to determine the ability to develop new, non-exempt ground water sources for utilities		

*Included in Table 8-1 DIP September 2007 Yakima County

Implementing the actions on this plan is contingent on finding appropriate funding sources

	Yakima County - Lead Responsibilities											
	Timelines/Milestones											
PROPOSED PLAN ACTIONS		complete	Strategies and Actions Immediate Priorities	complete	Mid - Term Strategies and Actions 3 - 5 Years	complete	Long - Term Strategies and Actions	DependenceNotesDependencePossible FundingDependenceSourcesOpendenceAgreements Needed				
GROUND WATER RE	SOURCES: MANAGEME	EN	Т	1								
*Co-lead with cities to support service expansion by public water systems within urban growth areas to discourage exempt well use 4.1d	extend svcs. in those areas & are expected to provide svcs when		Joint planning of utility extensions (Potable and Irrigation Water, Sewer, Roads) with City of Yakima, Union Gap, and other cities. Address issue in individual cities' comp. plan Utility Element and water system plans for unincorporated urban growth areas		Formal Service Extension Agreements With Providers. City/County discussions re: well use in UGA for subdivisions, existing undevel. lots, and redevelopment. Consider appropriate changes to policies & regs.			W/ CITIES, NOB HILL WATER DISTRICT				
SURFACE WATER QU	JALITY: PREVENT / MIT	'IG.	ATE STORMWATER IM	PA	СТЅ]						
*Manage Stormwater in unincorporated areas consistent with surface water quality strategy 5.3 a & b	NPDES permit issued, joint stormwater task force agreements		Development of Stormwater Program to meet requirement of Eastern Washington Stormwater Management Manual		Regional stormwater program in place			Partially funded Local Utility				

		Yakima County - Le	ead Responsibilities		
		Timelines/	Milestones		
PROPOSED PLAN ACTIONS	Ongoing Strategies and Actions	Strategies and Actions Immediate Priorities	Mid - Term Strategies and Actions 3 - 5 Years	Long - Term Strategies and Actions	Notes Possible Funding Sources Agreements Needed
SURFACE WATER QU	JALITY: DEVELOP PUB	LIC EDUCATION PROGRAM	1		
Develop public educational program 5.8d		Develop educational program as component of Stormwater/NPDES program			
HABITAT ENHANCEM	IENT				
*Update land use regulations within jurisdictional area to protect existing habitat conditions -7.2d, 7.5a	Existing CAO and SMP in effect that protect habitat functions.	Updates to CAO and SMP to be finalized in 2007. Regulatory consistency improved by integrating CAO & SMP reqs. to be similar, and by adopting regional CAO & SMP for both cities and county. Updated regs. use science to protect habitat.	Review future development for compliance with CAO & SMP to protect existing habitat	Regular updates to regs to incorporate new science.	Funded Adopt w/ Y. CO. CITIES, and input from ECOLOGY, WDFW, NRCS, USFS,& YAKAMA NATION

	Strategies and Actions Immediate Priorities	Milestones Mid - Term Strategies and Actions 3 - 5 Years ONNECT ASSOCIATED FLO	Long - Term Strategies and Actions	Notes Possible Funding Sources Agreements Needed
and Actions	Immediate Priorities	and Actions 3 - 5 Years ONNECT ASSOCIATED FLO	Strategies and Actions	Possible Funding Sources
			DODPLAINS	
ating Yakima Inty-wide Flood Introl Zone District ZD) projects Iglas Wrecking d, Lower Naches Indination, Gap to b Levee Pullback, anum Mission, etc. fect assistance and uisition thru Co. In-Regulatory gram.		Future Flood Control Zone District Projects - Rambler's Park, Yakima Water Treatment Plant reach, actions in Wide Hollow Ahtanum CFHMP. Seek funding for implementation of habitat projects with Yakima County as project proponent. Project assistance and acquisition thru Co. Non-Regulatory Program.		FCAAP, SRFB, COE, NOAA W/ LANDOWNERS, USFS, CD, WDFW, WDOT
above listed itat project tegies		See above listed habitat project strategies		W/ LANDOWNERS, USFS, CD, WDFW, WDOT
inti Ziggino arie u gr gr 	Aty-wide Flood rol Zone District (D) projects plas Wrecking , Lower Naches dination, Gap to Levee Pullback, num Mission, etc. Act assistance and isition thru Co. Regulatory ram.	Aty-wide Flood rol Zone District D) projects Jlas Wrecking , Lower Naches dination, Gap to Levee Pullback, hum Mission, etc. Act assistance and isition thru Co. Regulatory ram.	Ing Yakima ity-wide Flood rol Zone District D) projects glas Wrecking , Lower Naches dination, Gap to Levee Pullback, hum Mission, etc. ict assistance and isition thru Co. Regulatory ram.Rambler's Park, Yakima Water Treatment Plant reach, actions in Wide Hollow Ahtanum CFHMP. Seek funding for implementation of habitat projects with Yakima County as project proponent. Project assistance and acquisition thru Co. Non-Regulatory Program.above listed at projectSee above listed habitat project	Ing Yakima Rambler's Park, ity-wide Flood Yakima Water rol Zone District Treatment Plant reach, D) projects actions in Wide Hollow Alas Wrecking Antanum CFHMP. y Lower Naches Seek funding for dination, Gap to Seek funding for Levee Pullback, mplementation of habitat projects with Yakima County as project assistance and project proponent. sition thru Co. Project assistance and Regulatory ram. above listed See above listed at project See above listed

	Yakima County - L	_ea	d Responsibilities				
	Timelines	s/N	lilestones				
Ongoing Strategies and Actions	Strategies and Actions Immediate Priorities		Mid - Term Strategies and Actions 3 - 5 Years		Long - Term Strategies and Actions		Notes Possible Funding Sources Agreements Needed
ENT: IMPROVE WATERS		DN	BASE	1			
2006	with YBFWRB and others on educational						Partially funded
	and Actions ENT: IMPROVE WATERS YBSRP completed X 2006	Ongoing Strategies and ActionsStrategies and Actions Immediate PrioritiesENT: IMPROVE WATERSHED-WIDE INFORMATIONYBSRP completed 2006XWork in cooperation with YBFWRB and	Ongoing Strategies and ActionsStrategies and Actions Immediate PrioritiesENT: IMPROVE WATERSHED-WIDE INFORMATIONYBSRP completed 2006XWork in cooperation with YBFWRB and others on educational	Ongoing Strategies and Actions Strategies and Actions Immediate Priorities and Actions 3 - 5 Years ENT: IMPROVE WATERSHED-WIDE INFORMATION BASE YBSRP completed 2006 X Work in cooperation with YBFWRB and others on educational	Ongoing Strategies and Actions Immediate PrioritiesMid - Term Strategies and Actions 3 - 5 YearsENT: IMPROVE WATERSHED-WIDE INFORMATION BASEYBSRP completed 2006XWork in cooperation with YBFWRB and others on educational	Ongoing Strategies and Actions and ActionsStrategies and Actions Immediate PrioritiesMid - Term Strategies and Actions 3 - 5 YearsLong - Term Strategies and 	Ongoing Strategies and Actions and ActionsStrategies and Actions Immediate PrioritiesMid - Term Strategies and Actions 3 - 5 YearsLong - Term Strategies and ActionsENT: IMPROVE WATERSHED-WIDE INFORMATION BASEYBSRP completed 2006XWork in cooperation with YBFWRB and others on educationalImage: Strategies and and Actions

		Yakima County - Ot	her Responsibilities		
		Timelines/	Milestones		
PROPOSED PLAN ACTIONS	Ongoing Strategies and Actions	Strategies and Actions Immediate Priorities	Mid - Term Strategies and Actions 3 - 5 Years	Long - Term Strategies and Actions	Notes Possible Funding Sources Agreements Needed
SURFACE WATER RI	ESOURCES: STORAGE				
*Support design and construction of storage projects by providing seed funding, securing political support, seeking additional funding and processing permits in a timely manner 3.1	Ongoing political and financial support for storage study and YBSA	Continued support	Continued support	Project implementation	Partially funded \$50K/year
SURFACE WATER RI	SOURCES: PUBLIC ED	DUCATION			
*Support design and implementation of public education program 3.5a		Regional education coordination consortium	Regional education coordination consortium		Not funded
GROUND WATER RE	SOURCES: MANAGEM	ENT			
*Track progress of USGS Study and provide input to its application and associated policy decisions 4.1a	Tracking by Surface Water Management and Utilities in Public Services.	Same	Participate in development of implementation actions/legal recommendations		Partially funded W/ CA, CITY, ID, ECOLOGY

		Yakima County - O	ther Responsibilities					
	Timelines/Milestones							
PROPOSED PLAN ACTIONS	Ongoing Strategies and Actions	Strategies and Actions Immediate Priorities	Mid - Term Strategies and Actions 3 - 5 Years	Long - Term Strategies and Actions	Notes Possible Funding Sources Agreements Needed			
GROUND WATER RE	SOURCES: MANAGEM	ENT			1 1			
*Design and establish improved system for monitoring and managing aquifer water levels over the long term 4.1b	Tracking by Surface Water Management and Utilities in Public Services.	Continue tracking by Surface Water Management and Utilities in Public Services.	Cooperative database development		Partially funded W/ ECOLOGY, ID, CITIES			
Participate in development of any programs pertaining to the use and management of groundwater rights in Yakima Basin consistent w/ WMP, Alternative II-2 4.1c	Very minor, some connection to SEPA for certain projects .	Review USGS groundwater study 2008. Participate in policy discussions after completion of the Groundwater Study	Help develop policy w/ WRAC and update Chapter 4 of WS Plan		W/ ECOLOGY, CITY, ID, LANDOWNERS			

	Yakima County - Other Responsibilities							
		Timelines	s/Milestones					
PROPOSED PLAN ACTIONS	Ongoing Strategies and Actions	Strategies and Actions Immediate Priorities	Mid - Term Strategies and Actions 3 - 5 Years	Long - Term Strategies and Actions	Notes Possible Funding Sources Agreements Needed			
GROUND WATER RE	SOURCES: PUBLIC EDUC	ATION						
*Support design and implementation of public education program addressing ground water management to support actions 4.2a		Regional education coordination consortium	Regional education coordination consortium		Partially funded W/ CITY, ID, ECOLOGY			
SURFACE WATER QU	JALITY: IMPROVE INTERA	AGENCY COORDINATIO	N					
*Participate in interagency forum 5.7a	Participate in forum	Participate in forum	Participate in forum	Participate in forum				
HABITAT ENHANCEM	ENT: PROTECT EXISTING	G HIGH QUALITY HABIT	ATS					
Support watershed headwaters protection and projects to protect existing high-quality habitats 7.1b	Support of acquisitions of Tieton Checkerboard, others. Forest resource lands protection under current GMA comp plan. Existing CAO & SMP protections.	See above listed land regulation strategies. (7.2d, 7.5a)	See above listed land regulation strategies. (7.2d, 7.5a)	See above listed land regulation strategies. (7.2d, 7.5a)	W/ The Nature Conservancy, USFS			

		Yakima County - Ot	her Responsibilities		
		Timelines/	Milestones		
PROPOSED PLAN ACTIONS	Ongoing Strategies and Actions	Strategies and Actions Immediate Priorities	Mid - Term Strategies and Actions 3 - 5 Years	Long - Term Strategies and Actions	Notes Possible Funding Sources Agreements Needed
HABITAT ENHANCEM	ENT				
Support off-channel connectivity actions to enhance downstream reaches and connect associated floodplains and to enhance degraded but functional aquatic habitats 7.3b, 7.4b	implementation of				
Support in-channel complexity actions to enhance downstream reaches and connect associated floodplains and to enhance degraded but functional aquatic habitats 7.3e, 7.4e	See above listed habitat project strategies.		See above listed habitat project strategies.		
HABITAT ENHANCEM	ENT: PROTECT EXIST	ING CONDITIONS FROM FU	RTHER DEGRADATION	1	
Focus on non-point pollution to protect existing habitat conditions from further degradation 7.5c	Stormwater management study	Development of Stormwater program and its capital and educational elements.	Source control and monitoring program as component of Stormwater NPDES permit requirements		Partially funded W/ CA, WDFW, ECOLOGY, USFS, CD, CC

*Included in Table 8-1 DIP September 2007 Yakima County

Implementing the actions on this plan is contingent on finding appropriate funding sources

		Yakima-Tieton Irrigation D	District - Other Respons	sibili	ties		
	Timelines/Milestones						
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid - Term Actions B 3 - 5 Years	complete	Long - Term Actions	aNotesaPossible FundingbSourcesbAgreements Needed	
SURFACE WATER Q	UALITY: STORAGE			- 1 - 1			
Support design and construction of storage projects by providing seed funding, securing political support, seeking additional state and federal funding 3.1	Water Storage Feasibility study. Participate and review						
SURFACE WATER Q	UALITY: EFFICIENCY						
Implement water use efficiency projects through agreements, funding and other actions 3.2b	Develop strategy for replacement of 100 year-old canal delivery system					W/ USBR, CD, CITY	
SURFACE WATER R	ESOURCES: SUPPORT	WATER RIGHTS TRANSP	1				
Explore source substitution 3.4b	Continue to consider Cowiche Creek Water Users Association (CCWUA) water exchange project Planning by North Yakima Conservation District	Continue to consider: Planning phases: Complete the necessary agreements, contracts and court approval	Continue to consider: Construction: Install infrastructure in YTID system Implement by delivering and monitoring water use	n	Continue to consider: Ongoing: deliver & monitor water use	W/ USBR, WATER TRUST, CCWUA, NYCD, ECOLOGY, WDFW	

	Yakima-Tieton Irrigation District - Other Responsibilities								
	Timelines/Milestones								
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed
SURFACE WATER Q	UALITY: PUBLIC EDUC	ATI	ON			1	1		
Design and implement public education program to support surface water actions 3.5a	t Participate as needed								W/ CA, (CITY, CNTY, ID)
Participate in interagency coordination forum 3.5b	Participate as needed								W/ ALL PARTICIPATING ENTITIES
GROUND WATER RE	SOURCES: MANAGEM	IEN	Т						
Track progress of USGS Study and provide input to its application and associated policy decisions 4.1a	Attend annual progress report by USGS		Study completed 2008						W/ CA, CITY, CNTY, ECOLOGY
Design and establish improved system for monitoring and managing aquifer water levels over the long term 4.1b	Participate through CA & WRAC								W/ ECOLOGY, CITIES, CNTY

	Yakima-Tieton Irrigation District - Other Responsibilities							
	Timelines/Milestones							
PROPOSED PLAN ACTIONS	On-going b Strategies and/or Actions c	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed
GROUND WATER RE	SOURCES: MANAGEMEN	IT	1 1		1		1	
Participate in the development of any programs pertaining to the use and management of groundwater rights in Yakima Basin consistent with Watershed Plan, Alternative II-2 (Selective Restrictions on New Ground Water Development) 4.1c	Participate through CA & WRAC			Participate in policy development w/ CA (YBWRA) & WRAC upon completion of USGS Study in 2008				W/ ECOLOGY, CITY, CNTY, LANDOWNERS
GROUND WATER RE	SOURCES: PUBLIC EDUC	CATION					1	I
Design and implement a public education program addressing ground water management to support actions 4.2a	Participate w/ CA & WRAC							W/ CITY, CNTY, ECOLOGY

On-going Strategies and/or Actions		es/Milestones	0	
On-going Strategies and/or Actions	한 으 Immediate Priorities	ē	0	
	COL	Mid - Term Actions 3 - 5 Years	Long - Term Actions	DependenceNotesDependencePossible FundingDependenceSourcesOAgreements Needed
ITY: PREVENT / MIT	IGATE AG IMPACTS			
stalled pressurized gation system	Congoing monitoring	Ongoing monitoring	Ongoing monitoring	W/ CD, WSU, USDA, LANDOWNERS
ply aquatic rbicides within quirements of deral Insecticide ngicide Regulatory t and NPDES	On-going	On-going	On-going	W/ CD, ECOLOGY, USDA, LANDOWNERS
T				
ovide improved in eam flow & ssage w/ possible iter exchange bject	Planning phases: complete the necessary agreements, contracts and court approval	Construction: Install infrastructure in YTID system Implement by delivering and monitoring water use	Ongoing: deliver & monitor water use	W/ USBR, WATER TRUST, CCWUA, NYCD, ECOLOGY, WDFW
	pation system bly aquatic bicides within uirements of deral Insecticide ngicide Regulatory and NPDES r vide improved in eam flow & sage w/ possible er exchange	ation system x Ongoing monitoring oly aquatic oly aquatic bicides within on-going uirements of on-going deral Insecticide on-going orgicide Regulatory on-going and NPDES Planning phases: vide improved in complete the asage w/ possible er exchange er exchange agreements, contracts	vide improved in eam flow & sage w/ possible er exchange jectPlanning phases: complete the necessary and court approvalConstruction: Install infrastructure in YTID systemVide improved in eam flow & sage w/ possible er exchange jectPlanning phases: complete the necessary and court approvalConstruction: Install infrastructure in YTID system	ation systemxOngoing monitoringOngoing monitoringOngoing monitoringOngoing monitoringbly aquatic bicides within uirements of deral Insecticide pgicide Regulatory and NPDESOn-goingOn-goingOn-goingOn-goingVide improved in am flow & sage w/ possible er exchange jectPlanning phases: complete the necessary agreements, contracts and court approvalConstruction: Install infrastructure in YTID system Implement by delivering andOngoing: deliver & monitor water use

		Yakima-Tieton Irrigation Dis	strict - Other Responsi	bili	ties	
		Timelines/	Milestones			
PROPOSED PLAN ACTIONS	On-going Strategies and/or Actions	Immediate Priorities	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	DescriptionNotesDescriptionPossible FundingDescriptionSourcesOstronomicAgreements Needed
HABITAT: PROTECT [DOWNSTREAM REACH	HES & CONNECT ASSOCIAT	ED FLOODPLAINS	1	1	
downstream reaches and connect	Participate Support YRBWEP implementation through CAG & YBJB	Ongoing	Ongoing		Ongoing	W/ ECOLOGY, EPA, CD, LANDOWNERS USGS, USFS
HABITAT: ENHANCE	DEGRADED BUT FUNC	CTIONAL AQUATIC HABITAT	S			
actions to enhance degraded but functional aquatic	Participate Support YRBWEP implementation through CAG & YBJB	Ongoing	Ongoing		Ongoing	W/ ECOLOGY, CD, LANDOWNERS
		HES & CONNECT ASSOCIAT		1		
Support other improvements to enhance downstream reaches and connect associated floodplains and to enhance	Support CAG in USBR Reaches Study implementation through YRBWEP	Ongoing	Ongoing		Ongoing	W/ WDFW, LANDOWNERS

Yakima-Tieton Irrigation District - Other Responsibilities								
On-going Strategies and/or Actions	complete	Immediate Priorities	complete	Mid - Term Actions 3 - 5 Years	complete	Long - Term Actions	complete	Notes Possible Funding Sources Agreements Needed
NFORMATION BASE								
Participate in YBJB review and analysis of ESA listing & technical support for de-listing		Ongoing		Ongoing		Ongoing		W/ WDFW, USBR, SOAC, CC, CD, USFS, USGS, ECOLOGY
Participate in YBJB review and analysis of ESA listing & technical support for de-listing		Ongoing		Ongoing		Ongoing		W/ WDFW, USBR, SOAC, CC, CD, USFS, USGS, ECOLOGY
	On-going Strategies and/or Actions NFORMATION BASE Participate in YBJB review and analysis of ESA listing & technical support for de-listing Participate in YBJB review and analysis of ESA listing & technical	On-going Strategies and/or Actions NFORMATION BASE Participate in YBJB review and analysis of ESA listing & technical support for de-listing Participate in YBJB review and analysis of ESA listing & technical	On-going Strategies and/or Actions and book and book Immediate Priorities NFORMATION BASE Immediate Priorities Immediate Priorities Participate in YBJB review and analysis of ESA listing & technical support for de-listing Ongoing Participate in YBJB review and analysis of ESA listing & technical support for de-listing Ongoing	On-going Strategies and/or Actions and be be be be be Immediate Priorities and be be be be be NFORMATION BASE Immediate Priorities Immediate P	Timelines/Milestones On-going Strategies and/or Actions and book and book Mid - Term Actions 3 - 5 Years NFORMATION BASE Immediate Priorities and book Mid - Term Actions 3 - 5 Years Participate in YBJB review and analysis of ESA listing & technical support for de-listing Ongoing Ongoing Participate in YBJB review and analysis of ESA listing & technical support for de-listing Ongoing Ongoing	Timelines/Milestones On-going Strategies and/or Actions and book an	Timelines/Milestones On-going Strategies and/or Actions and box box box box box box box box box box	Timelines/Milestones On-going Strategies and/or Actions and b Immediate Priorities and b Mid - Term Actions 3 - 5 Years and b Long - Term Actions and b NFORMATION BASE Participate in YBJB review and analysis of ESA listing & technical support for de-listing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Immediate Priorities Immediate Pri

Research and Data Acquisition

Program Name	Sponsor	Funding Description	Typical Funds Available
Planning/Technical Assistance Program	Bureau of Reclamation	Bureau of Reclamation provides assistance in data collection and analysis related to water supply and water quality, engineering, hydrologic studies, sedimentation, and water resources planning. Priorities include water use efficiencies, and long-term water supply planning.	Technical Assistance
Emergency Community Water Assistance Grant Program	USDA - Rural Development	Emergency community water assistance, to obtain adequate quantities of water for residents in rural areas that have experienced a significant decline in water quantity or quality. Waterline extensions from existing systems; construction of new water lines; repairs to existing systems; construction of new wells, reservoirs, transmission lines, treatment plants, and other water sources; equipment replacement.	\$500,000/project
Water Quality Special Research Grants Program	Cooperative State Research Education and Extension Service	Identification and resolution of agriculture-related degradation of water quality.	Variable Funding Level: FY00 \$13 million
Sustainable Agriculture Research Education (SARE)	Cooperative State Research Education and Extension Service	Increase scientific investigation and education to reduce the use of chemical pesticides, fertilizers, and toxic materials in agricultural production; improve management of on-farm resources to enhance productivity, profitability, and competitiveness; to promote enterprise diversification; to study farms that optimize the use of on-farm resources and conservation practices; and to promote partnerships among farmers, nonprofit organizations, agribusiness, and public and private research and extension institutions.	\$30,000 to \$200,000/ project FY98,99, 00 \$11.3 million
Fish America Foundation	Fish America Foundation	Hands on-projects at the local level aimed at enhancing fish populations, improving water quality, and/or advancing fisheries research; thereby increasing the opportunity for sport fishing success.	\$5,000 to \$50,000/project

Research and Data Acquisition

Program Name	Sponsor	Funding Description	Typical Funds Available
Nonpoint Source Implementation Grant (319) Program – Washington Bonneville Environmental Foundation Watershed Program	Washington State DOE/ Environmental Protection Agency Bonneville Environmental Foundation	Management of nonpoint source pollution and to improve and protect water quality. Funds may be used for planning and implementation, including the development of TMDLs, restoration of riparian, and prevention of pollution through active educational programs. Funds proponents with desire and capacity to implement a comprehensive watershed restoration strategy that incorporates community support, scientific basis, watershed-scale approach; and monitoring and evaluation systems that track restoration progress and provide feedback to adjust restoration strategies.	Varies Approx. \$2 million annually \$5,000 to \$40,000/project
National Research Initiative Competitive Grants Program Aquatic Lands Enhancement Account (ALEA)	U.S. Department of Agriculture Department of Natural Resources	Research problems of national and regional importance in biological, environmental, physical, and social sciences relevant to agriculture and food and the environment, including water resources assessment and protection. Acquisition, restoration, or improvement of "navigable" aquatic lands for public purposes, and for providing and improving public access to aquatic lands and associated waters.	
Public Works and Economic Development Program Community Development Block Grant Community	Economic Development Administration Washington Department of	Communities on the economic decline to revitalize, expand, and upgrade their physical infrastructure to attract new industry, encourage business expansion, diversify local economies and generate or retain long term, private sector jobs and investment. Water, wastewater, economic development and community facilities.	Average grant: \$829,000/ project FY00 \$204,521,000
Block Grant Community Investment Fund - WA Water Reclamation and Reuse	Community, Trade and Economic Development Washington State Department of Ecology	Promote and facilitate the use of reclaimed water to replace potable water in non- potable applications.	Technical Assistance

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Potential Funding Sources (from WRIA 44/50)

Research and Data Acquisition

Program Name	Sponsor	Funding Description	Typical Funds Available
Watershed Processes and Water Resources Program	U.S. Department of Agriculture	Research that addresses two areas: (1) Understanding fundamental processes controlling (a) source areas and flow pathways of water, (b) the transport and fate of water, sediment, nutrients, dissolved matter, and organisms within forest, rangeland, and agricultural environments, and (c) water quality. (2) Developing appropriate technology and management practices for improving the effective use of water (consumptive and non-consumptive) and protecting or improving water quality for agricultural and forestry production, including the evaluation of management policies that affect the quantity and quality of water resources.	\$40,000 to \$150,000/project FY 2003 \$4.2 million
Wetland Protection, Restoration, and Stewardship Discretionary Funding	EPA	Studies and activities related to implementation of Section 404 of the Clean Water Act for both wetlands and sediment management. Projects can support regulatory, planning, restoration or outreach issues.	\$5,000 to \$20,000/ project
American Water Works Association Research Foundation (AwwaRF)	American Water Works Association Research Foundation (AwwaRF)	Water-related research projects.	Undefined
Cooperative Endangered Species Conservation Fund	USFWS	The Fund is dispersed to the states and territories through four programs: Conservation Grants, Habitat Conservation Planning Assistance Grants, Habitat Conservation Plan Land Acquisition Grants, and Recovery Land Acquisition Grants. Although not directly eligible for theses grants, third parties such as nonprofit organizations and local government may work with their state or territorial wildlife agency to apply for these funds.	\$1,000 to \$14,000/ project FY \$80,473,500
USGS Cooperative Water Program	USGS	The USGS Cooperative Water Program jointly funds water-resources projects in an ongoing partnership between the USGS and non-Federal agencies.	Technical Assistance
EPA Assessment and Watershed Protection Program Grants	EPA	Prevention, reduction and elimination of water pollution through watershed program, non-point source program, and monitoring and assessment program.	\$5,000 to \$100,000/ project

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Research and Data Acquisition

Program Name	Sponsor	Funding Description	Typical Funds Available
Cost/Benefit Analysis of	Water Environment	Research that will provide a comparative analysis of various options for	
Management Options for	Research Foundation	biosolids/sludge disposal, including cost, environmental consequences and	
Sludge/Biosolids (RFP no.		benefits, sustainability and life cycle components, and public perception and	
04-CTS-2)		degrees of support to make local decisions that are the most economical and	
		sustainable solutions.	
Section 22: Planning	US Army Corps of	Authority for the Corps of Engineers to assist entities in the preparation of State allot	
Assistance to the States	Engineers	comprehensive plans for the development, utilization, and conservation of water limite	
Program (PAS)		and related land resources. The program can encompass many types of studies	00 annually,
		including water supply, quality, conservation, flood control, floodplain	typically much
		management, erosion, and navigation. Generally involve analysis of existing	less. Covers
		data, although some data collection is often necessary. Study sponsor and Corps	50% project
		split the study cost 50-50.	cost.

Policy Recommendations

Program Name	Sponsor	Funding Description	Typical Funds Available
Clean Water Act Water Quality Cooperative Agreements	Environmental Protection Agency	Unique and new approaches to meeting stormwater, sanitary sewer, and combined sewer outflows, biosolids, and pretreatment requirements, as well as enhancing state capabilities. Eligible projects include research, investigations, experiments, training, demonstrations, surveys, and studies related to the causes, effects, extent, and prevention of pollution.	Varies/project. Totals FY00 \$19 million

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Public Outreach and Education Projects

Program Name	Sponsor	Funding Description	Typical Funds Available
Pesticide Environmental Stewardship Grants	EPA	Education, demonstration, outreach, risk reduction, measurement/monitoring, risk mitigation, and technology transfer to reduce risks associated with the use of pesticides in agricultural and non-agricultural settings	\$50,000/ project
Groundwater Foundation, The		Provides educational programs for all ages on groundwater.	None.
Capitalization Grants for Drinking Water State Revolving Fund	EPA	EPA awards grants to states to capitalize their Drinking Water State Revolving Funds (DWSRFs). States use a portion of their capitalization grants to set up a revolving fund from which loans and other types of assistance are provided to eligible public water system(publicly and privately owned) to finance the cost of infrastructure projects. States may also use a portion of their capitalization grants to fund set-aside activities that help to prevent contamination problems of surface and ground water drinking water supplies, as well as enhance water system management through source water protection, capacity development, and operator certification programs. Set-asides can be used for providing technical assistance, developing system capacity, protecting sources of drinking water, land acquisition to protect drinking water sources, among other activities. States may use up to 31% of the capitalization grant for set-asides.	
Water Pollution Control - State and Interstate Program Support	EPA	Establishing and maintaining adequate measures for prevention and control of surface water and groundwater pollution.	Undefined.
Environmental Education Grants Program	EPA	Projects must focus on one of the following: (1) improving environmental education teaching skills; (2) educating teachers, students, or the public about human health problems; (3) building state, local, or tribal government capacity to develop such programs; (4) educating communities through community-based organization; or (5) educating the public through print, broadcast, or other media.	
Student Environmental Stewardship Program	Washington Environmental Education Foundation	Encourage student participation in local environmental stewardship projects and enhance student understanding of community service and philanthropy. Award up to four \$500 grants annually to support student initiated or supported environmental projects meeting local community needs.	\$500/project

Public Outreach and Education Projects

Program Name	Sponsor	Funding Description	Typical Funds Available
Local Wal-Mart Environmental Grant Program, The	Wal-Mart Foundation	Offers programs such as Environmental Education, a Community-Matching Program and a Grant Program. Financial Assistance is available to communities where a Wal-Mart is located. All requests for funding must be directed through the Wal-Mart Stores.	Undefined.

On-the-Ground Projects

Program Name	Sponsor	Funding Description	Typical Funds Available
Emergency Conservation Program	Farm Service Agency	Cost share to farms and ranchers for the rehabilitation of farmlands damaged by floods, drought, or other natural disasters. Funds emergency water conservation measures, removing debris and restoring permanent fences, terraces, diversions, irrigation systems, and other conservation installations.	\$200,000/ individual per disaster.
The Challenge Grant Program—the Heart of Water 2025	US Department of Interior- Bureau of Reclamation	Funding to irrigation and water districts for projects focused on water conservation, efficiency, and water marketing. This program can be used to fund canal lining and piping, and can cover construction costs.	50% Cost Share.
Planning/Technical Assistance Program	Bureau of Reclamation	Technical assistance in data collection and analysis related to water supply and water quality, engineering, hydrologic studies, sedimentation, and water resources planning. Priorities include water use efficiencies, and long-term water supply planning.	Technical Assistance
Native Plant Conservation Initiative	National Fish and Wildlife Foundation	On-the-ground conservation projects that protect, enhance, and/or restore native plant communities on public and private land.	Typical \$35,000/project. FY2002 \$410,800

On-the-Ground Projects

Program Name	Sponsor	Funding Description	Typical Funds Available
WDFW Landowner Incentive Program	WDFW	Financial assistance to private landowners for the protection, enhancement, or restoration of habitat to benefit "species at risk" on privately owned lands.	\$50,000/ project. 25% Cost Share. Approx \$760,000
Ducks Unlimited	Ducks Unlimited	Projects that protect, enhance, restore, and managing important wetlands and associated uplands	Undefined.
NFWS Partners for Fish and Wildlife Program	NFWF	Financial assistance to private landowners who want to restore or improve habitat for migratory birds, anadromous and catadromous (migratory) fish and species federally-listed as threatened or endangered. On-the-ground restoration only.	\$25,000/ project. 50% cost share.
Eastern Washington Pheasant Habitat Enhancement Grant Program	WDFW	Projects that benefit pheasant habitat in areas that will be available for public hunting. Project must be located within the WDFW Primary Pheasant Management Zone and on land enrolled in CRP.	\$5,000/project . Approximately \$50,000 annually.
Grassland Reserve Program	US Department of Agriculture	The 2002 Farm Bill established the Grassland Reserve Program (GRP) for the purpose of restoring and conserving two million acres of grassland, rangeland, and pastureland. GRP will do this through the use of up to 30-year rental agreements and 30-year or permanent easements.	Authorized at \$254 million through 2007. Restoration costs shared at up to 75%
Flood Mitigation Assistance Program	Federal Emergency Management Agency	Projects may include (1) elevation, relocation, or demolition of insured structures; (2) acquisition of insured structures and property; (3) dry flood proofing of insured structures; (4) minor, localized structural projects that are not fundable by state or other federal programs (erosion-control and drainage improvements); and (5) beach nourishment activities such as planting of dune grass.	Varies
Flood Control Assistance Account Program (FCAAP)	WA Department of Ecology	Full scope of floodplain management proposals are being considered for funding. Proposals such as completion of Comprehensive Flood Hazard Management Plans (CFHMP); the floodplain element of all-hazards mitigation plan; projects that implement an adopted CFHMP; floodplain acquisition projects; and limited fish habitat protection and/or enhancement projects that have a flood hazard reduction component will receive primary consideration for award.	

On-the-Ground Projects

Program Name	Sponsor	Funding Description	Typical Funds Available
Energy and Climate Change Program	Bullitt Foundation	The Foundation seeks to accelerate a region-wide commitment to the ultra- efficient use of energy sources that are safe, renewable, and comparatively benign in their environmental impacts.	Total 2004 is \$215,000. Total 2003 is \$379,000.
Energy Star Program	EPA	Energy Star Buildings program purpose is to enhance energy and dollar savings achieved through careful examination of lighting and building systems for energy efficient improvements. Eligible projects: Any buildings in need of upgrades.	Varies
Pulling Together Initiative	National Fish and Wildlife Foundation	Provides a means for federal agencies to partner with state and local agencies, private landowners, and other interested parties to develop long-term weed management projects within the scope of an integrated pest management strategy. PTI provides support on a competitive basis for the formation of local weed management area (WMA) partnerships.	Typical median amount awarded \$25,000/project
Weed Management Area Grants	Center for Invasive Plant Management	Support the establishment of enhancement of cooperative weed management areas (WMAs). Cooperative efforts must involve diverse landowners and land managers; for example, private landowners, community groups, conservation groups, and local, state, and federal agencies.	\$5,000/project
Aquatic Weeds Management Fund	Washington State Department of Ecology	groups, and local, state, and federal agencies.Development of integrated aquatic vegetation management plans, implementationof the integrated plans control activity, aquatic plant survey, aquatic plantmonitoring, and education about aquatic plants. Funds are also available on a first- come first serve basis for early infestations of exotic freshwater weeds such as Eurasian watermilfoil.	
Centennial Clean Water Fund	Washington State DOE	Projects which prevent and control water pollution.	\$250,000/project \$5 million annually
Non-Point Water Quality Grants	Washington Conservation Commission	Financial assistance for implementation of projects and practices to improve water quality. Examples: Work with farmers to reduce water use; control run-off to reduce sedimentation; improve fish habitat; improve water quality in shellfish areas.	Varies

On-the-Ground Projects

Program Name	Sponsor	Funding Description	Typical Funds Available
Section 206: Aquatic Ecosystem Restoration Program	US Army Corps of Engineers	Provides authority for the Corps of Engineers to construct aquatic ecosystem restoration and protection projects.	Undefined.
Wetland Program Development Grants	EPA	Financial assistance to support development of new, or augmentation and enhancement of existing wetland programs. Opportunity to conduct projects that promote the coordination and acceleration of research, investigations, experiments, training, demonstrations, surveys, and studies relating to the causes, effects, extent, prevention, reduction, and elimination of water pollution.	\$10,000 to \$500,000/project
Wetland Reserve Program	NRCS	This voluntary program provides landowners with financial incentives to restore and protect wetlands in exchange for retiring marginal agricultural land. (Douglas County maxed out on CRP/WRP acreage- only those areas not in cropland would qualify)	USDA pays 75% restoration cost.
North American Wetlands Conservation Act Grants Program	USFWS	Provides matching grants to carry out wetlands conservation projects (on-the- ground projects through the protection, restoration, or enhancement) in the United States, Canada, and Mexico. This plan is an international agreement between the three countries for the long-term protection of wetland/upland habitats on which waterfowl and other migratory birds in North America depend.	\$50,000/project
Private Stewardship Grant	USFWS	Provides assistance to individuals and groups engaged in local, private, and voluntary conservation efforts that benefit federally listed, proposed, or candidate species, or other at-risk species.	10% required by landowners
Environmental Quality Incentive Program (EQIP)	NRCS	Voluntary conservation program for farmers and ranchers to address significant natural resource needs and objectives.	

On-the-Ground Projects

Program Name	Sponsor	Funding Description	Typical Funds Available
Five-Star Restoration Program	Environmental Protection Agency	Financial assistance to support community-based on-the-ground wetland, riparian and coastal habitat restoration projects that build diverse partnerships and foster local natural resource stewardship through education, outreach and training activities. The EPA provides funds to four intermediary organizations the National Association of Counties, the National Association of Service and Conservation Corps, the National Fish and Wildlife Foundation, and the Wildlife Habitat Council, which then make subgrants. The Five-Star program seeks to support restoration projects in 500 watersheds by 2005, a key action of the Clean Water Action Plan.	Subgrants average \$10,000. Program Funding Level: FY99 \$500,000 FY00 \$500,000
Environmental Grant Program, The	Educational Foundation of America	The Foundation focuses on approaches to sustainable agriculture and promotion of family farms; protection, and restoration of water quality and habitat; promotion of renewable energy and energy conservation; land conservation and protection of roadless forest areas, and providing technical assistance and training to environmental groups.	Undefined.
Challenge Grants for Conservation	National Fish and Wildlife Foundation	Support model projects which positively engage private landowners, primarily farmers and ranchers, in the conservation and enhancement of wildlife and natural resources on their land.	Ranges from \$10,000 to \$150,000
Wyden Amendment	BLM	This legislation provides the authority for both the USFS and BLM to enter into cooperative agreements with public and private entities for the protection, restoration, and enhancement of fish, wildlife or other resources on public or private lands that directly benefit biotic resources on public lands within the watershed.	Varies

On-the-Ground Projects

Program Name	Sponsor	Funding Description	Typical Funds Available
Landowner Incentive Grant Program	USFWS	Provide technical and financial assistance to private landowners for projects that protect and restore habitats of listed species or species determined to be at-risk.	
Ecosystem Restoration in the Civil Works Program	US Army Corps of Engineers	Resolve major problems in water related resources on a watershed scale, such as reconnecting streams to the main stem, restoring meandering in river courses, or resolving sediment loading problems.	Varies
Habitat Conservation - Partners for Fish and Wildlife Program	USFWS	This program provides technical assistance to the private sector to maximize wildlife conservation. To pursue opportunities and cooperative efforts with other government agencies and private partnerships to protect, restore, and enhance fish and wildlife habitats. Goals include: -Develop partnerships through proactive, voluntary cooperative efforts -Improve water quality -Provide corridors for wildlife and decrease impediments to native fish and wildlife migration. -Augment the goals of the National Wildlife Refuge System through projects that	
Community Development Block Grant General Purpose - Washington	Washington Department of Community, Trade and Economic Development	target species associated with refuge lands. Financial and technical assistance for infrastructure projects to benefit low and moderate-income persons. Eligible projects: Water pollution control (domestic wastewater and stormwater). Drinking water, housing, road, street and bridge projects.	
Conservation Security Program	NRCS	Provides payments for producers who practice good stewardship on their agricultural lands and incentives for those who want to do more. Authorized in the Farm Security and Rural Investment Act of 2002 (Farm Bill).	Varies
Washington State Water Pollution Control Revolving Fund	Washington State Department of Ecology	This program helps local governments finance water quality projects by providing low interest loans to public entities .Project examples: wastewater treatment facilities, nonpoint source water pollution control, wetlands acquisition, estuarine management.	Loan

On-the-Ground Projects

Program Name	Sponsor	Funding Description	Typical Funds Available
National Fish and Wildlife	NFWF	The NFWF is working to expand and strengthen its partnership with NRCS to	Typical \$10,000
Foundation (NFWF),		support innovative and effective conservation and stewardship of the country's	to
Matching Grants for		private lands. The goal of the partnership is to support high quality projects that	\$150,000/project.
Conservation on Private		engage private landowners, primarily farmers and ranchers, in the conservation	
Lands		and enhancement of fish and wildlife and natural resources on their lands. Only	
		those proposals with a strong on-the-ground component will be considered,	
		although capacity building, community development, education and other goals	
		may be included in the projects.	

Local, State ar	Table 3-5 Local, State and Federal Permits, Approvals, Authorizations Required for Watershed-Related Projects					
Agency	Permit / Approvals / Authorizations	Authority				
Washington State Age	ncies					
Department of Natural Resources	 Aquatic Use Authorization (Division of Aquatic Lands) Forest Practices Permit (Regional Offices) Reclamation Permit Aquaculture Registration and Transfer Permit Aquatic Farm Registration and Permit to Transport 	 RCW 79.90-79.96; RCW 79.105; RCW 79.020.030; WAC 332-30 RCW 76.09; WAC 222 RCW 78.44; WAC 332.18 RCW 77.115; WAC 220-76, 220-77 				
	Fin Fish	 RCW 77.115; WAC 220-76-010, 020 				
Department of Ecology	 National Pollutant Discharge Elimination General Permit (NPDES) NPDES Individual Permit NPDES Industrial Stormwater General Permit NPDES Municipal Stormwater General Permit State Waste Water Discharge Permit Water Discharge Permit – Reclaimed Water Temporary Modification of Water Quality Criteria Authorization Stormwater Discharges from Construction Sites Water Quality Certification (Section 401) 	 Clean Water Act, as amended; RCW 90.48; WAC 173-22 Clean Water Act, as amended; RCW 90-48; WAC 173-220 Clean Water Act, as amended Clean Water Act, as amended; RCW 90-48; WAC 173-224, 226 RCW 90.48, 90.52, 90.54; WAC 173- 216, 173-994 RCW 90.46, 90.48, 43.20; WAC 173- 216, 173-224, 246-271 RCW 90.48; WAC 173-201(A); 173- 222 RCW 90.48; WAC 173-226, 224, 220, 201A Federal Clean Water Act (Section 401); RCW 90.48; WAC 173-225, 201A 				
	 Dam Safety Construction Permit Reservoir Permit 	 RCW 90.03 and 43.21a; WAC 173-175 RCW 90.03; WAC 508-12 				

Local, State a	Table 3-5 nd Federal Permits, Approvals, Authorizations Requi	red for Watershed-Related Projects
Agency	Permit / Approvals / Authorizations	Authority
Ecology (continued)	 Permit to Withdraw or Divert Surface or Ground Water (Water Use Permit; Certificate of Water Right) Water Well Construction and Operator's License Haz ardous Chemical Inventory Reporting Requirements 	 RCW 18.104, 43.27A, 90.03 / 14 / 16 / 99 / 44 /54; WAC 173-100 / 136 / 150 / 154 / 166 / 500, 508-12; 173-590 RCW 18.104; WAC 173-160; 173-162 42 USC Part 116, 40 CFR 355-372; WAC 188-40
	 Toxic Chemicals Release Inventory Reporting State Environmental Policy Act 	 40 CFR 372; WAC 118-40 RCW 43.21C; WAC 197-11; SEPA Model Ordinance
	 Confined Animal Feeding Operations General Permit 	 RCW 90.48; WAC 173-220, 173-216; Clean Water Act 33 USC Section 1251, et seq, 40 CFR 122.23
	 Noise Ordinance Statewide General Permit for Biosolids Management 	 RCW 70.107; 173-60 RCW 70.95J; WAC 173-308
	 Underground Storage Tank Notification Requirements 	• RCW 90.76; WAC 173-360
	 On-Site Sewage Disposal Permit (more than 14,000 gallons per day or process wastewater) 	• RCW 90.48; WAC 173-216, 224, 240
	 Underground Injection Control Registration Notice of Intent to Construct or Decommission a Well 	• RCW 43.20A.165
	Wetlands Permits	 RCW 90.48, 90.58, 77.55, 36.70A.060; WAC 173-201A, 225
Department of Fish and Wildlife	 Fish Screening Requirements Hydraulic Project Approval 	 RCW 75.20; WAC 77-16 RCW 75.55; WAC 220-110
Department of Agriculture	 Public / Commercial / Private Pesticide Applicator and Operators License(s) 	 RCW 15.58 and 17.21; WAC 16-228

Local, State a	Table 3-5 nd Federal Permits, Approvals, Authorizations Requi	ired for Watershed-Related Projects
Agency	Permit / Approvals / Authorizations	Authority
	 Noxious Aquatic and Emergent Weed Transport Permit Public Livestock Market License 	 RCW 17.10; WAC 16.752 RCW 16.65, 34.05; WAC 16.604, 610
State Agencies	Fublic Elvestock Market Elcense	• RCw 10.05, 54.05, WAC 10.004, 610
Department of Community, Trade & Economic Development, Office of Archaeology and Historic Preservation	 Archaeological Excavation Permit Section 106 Review 	 RCW 27.44 and 27.53; WAC 25-48 National Historic Preservation Act of 1966
Department of Health Department of	 Water System Construction and Operation Approvals Drinking Water Operating Permit On-Site Sewage Disposal Permit (Large On-Site Sewage Systems, Between 3,500 - 14,500 gallons per day) Water System Construction and Operator Approval Animal Feeding Operations 	 RCW 43.20A; WAC 246-290, 246-293, 246-291 RCW 70.119A; WAC 246-294 RCW 43.20; WAC 246-272B RCW 43.20A; WAC 246-90, 291, 293 RCW 16.65; WAC 16-604, 606
Agriculture Multiple State Regulations for Wetlands	 Working in lands that are transitional between open water and uplands or that may be periodically inundated or saturated See: Wetland Regulations Guidebook (Available from Washington Department of Ecology) 	 Shoreline Management Act, Chpt 12 Hydraulic Project Approval, Chpt 19 State Water Pollution Control Act, Chpt 19 State Environmental Policy Act, Chpt 1 Forest Practices Regulations, Chpt 6 Floodplain Management program, Chpt 12

Agency	nd Federal Permits, Approvals, Authorizations Requi Permit / Approvals / Authorizations	Authority
Federal Agency Perm	its Related to State Permitting Processes	
U.S. Army Corps of Engineers	 404 Permit (dredge and fill) Section 10 Permit (work in navigable waters) 	 Clean Water Action, Section 404; Section 7 of the Endangered Species Act Rivers and Harbors Act of 1899, Section 10; Section 7 of the Endangered Species Act
Federal Energy Regulatory Commission	 FERC License to construct a non-federal hydroelectric project 	Federal Power Act, CFR Title 18
U.S. Coast Guard	Bridge Permit	General Bridge Act of 1946
All Federal Agencies	 Section 106 Review National Environmental Policy Act Environmental Assessment/Impact Statement 	 National Historic Preservation Act of 1966 USC Title 42, Chapter 55; 40 CFR Parts 1500-1508
Multiple Federal Regulations for Wetlands	 Working in lands that are transitional between open water and uplands or that may be periodically inundated or saturated See: Wetland Regulations Guidebook (Available from Washington Department of Ecology) 	 Clean Water Act, Sections 404 and 401 Rivers and Harbors Act, Section 10 (Chpt 14) National Environmental Policy Act, Chpt 1 Federal Water Pollution Control Act, Chpt 9 Coastal Zone Management Act, Chpt 3 1985 Food Security Act ("Swampbuster")

Table 3-5 Local, State and Federal Permits, Approvals, Authorizations Required for Watershed-Related Projects			
Agency	Permit / Approvals / Authorizations	Authority	
Local Government and	d County Government Permits Authorized by the State ar	nd Federal Government	
Planning Departments	 Building Permit 	 WAC 51-50; 51-51 	
	 Floodplain Development Permit 	 Title 44, Chapter 1, S 60.3; CFR Title 	
		42, Ch 50, s 4001 et seq USC; RCW	
		86.16; WAC 173-178	
	 Shoreline Conditional Use Permit 	 RCW 90.58; WAC 173-27 	
	 Shoreline Substantial Development Permit 	 RCW 90.58; WAC 173-27 	
	 Shoreline Variance Permit 	 RCW 70.58.100(5); WAC 173-27-170 	
	 Solid Waste Handling Permit 	 RCW 70.95; WAC 173-351, 350 	
	 Subdivisions Approvals 	 Subdivision Approval Statute; Growth 	
	**	Management Act; Subdivision Rules	
	 On-site Sewage Disposal Permit (less than 3500 	 Local health department 	
	gallons per day)		
	k: Commonly Required Environmental Permits for Washington Sta	ate, Washington Department of Ecology, Publication	
Number 90-29; Revised 2	/24/06.		

INTERGOVERNMENTAL AGREEMENT FOR THE

Yakima Basin Water Resources Agency

This INTERGOVERNMENTAL AGREEMENT ("Agreement") is made and entered into in accordance with the authority of Chapter 39.34 RCW, the Inter-local Cooperation Act, by and among the interested governments of Benton County, Klickitat County, Yakima County, City of Yakima, City of Ellensburg, Roza Irrigation District, Sunnyside Valley Irrigation District, and Yakima-Tieton Irrigation District, (collectively, the "Parties"), for the purposes of administrating and coordinating the implementation and possible future amendments of a local watershed plan known as the Watershed Management Plan: Yakima River Basin, January 2003, as approved by Joint Resolution No. 1-2005 by Benton, Klickitat, and Yakima Counties on November 2, 2005, under authority of Chapter 90.82 RCW for the Yakima River basin in WRIAs 37, 38 and 39 (the "Plan"); defining the duties and responsibilities of the coordinating agency created hereby; and providing direction to staff regarding contracting with consultants and expenditure of grant funds

RECITALS AND FINDINGS:

WHEREAS, water resource planning has been and continues to be a responsibility of Washington State, counties, cities, water utilities and tribes; and

WHEREAS, the State of Washington has declared, and the Parties recognize, that proper utilization of the water resources of this state is necessary for the promotion of public health and economic well-being of the state and for the preservation of its natural resources and aesthetic values; and

WHEREAS, the Parties recognize that it is in the best interests of the state and the Yakima River Basin that comprehensive water planning be given a high priority so that water resources and associated values can be utilized and enjoyed today and protected for tomorrow; and

WHEREAS, comprehensive water resource planning must provide interested parties adequate opportunity to participate, and water resource issues are best addressed through cooperation and coordination among the state, local governments, and all interested parties; and

WHEREAS, pursuant to Chapter 43.21C RCW, comprehensive water resource planning has considered the requirements of the State Environmental Policy Act within the scope of the planning process and must do so in the implementation of actions under the watershed plan; and

WHEREAS, utilization and management of the waters of this state are guided by certain general principles, including the principle that uses of water for domestic, stock-watering, industrial, commercial, agricultural irrigation, hydroelectric power production, mining, fish and wildlife maintenance and enhancement, recreational, thermal power production, preservation of

environmental and aesthetic values, and all other uses compatible with the employment of the public waters of the state, are beneficial; and

WHEREAS, because water rights are property rights held by individual citizens, irrigation entities, municipalities, public and private utilities, and governments, the Parties declare that the coordinating agency (CA) created hereby shall have no power or eminent domain authority to impair (a) any lawful water right or use; (b) the capability of water users to divert, convey, or exercise those rights; or (c) the continuation of existing land uses dependent on, or benefited by, those water rights uses; and

WHEREAS, to prepare and recommend a local watershed plan for approval under Chapter 90.82 RCW, the Parties have worked with willing participants of, or sought input from, the former Yakima River Watershed Council, representatives of state and federal agencies, the Confederated Tribes and Bands of the Yakama Indian Nation, local governments and representatives for agricultural, fisheries, recreational and environmental interests; and

WHEREAS, local watershed planning process for WRIAs 37, 38, and 39 was conducted with the approval of the Counties, and with the consent of all other initiating governments per RCW 90.82.130(2), and Kittitas County opted out of such planning with its adoption of Kittitas Co. Board of Commissioners Resolution No. 2005-100; and

WHEREAS on November 2, 2005, the counties of Benton, Yakima, and Klickitat adopted the Plan, as recommended by the Planning Unit previously created pursuant to Chapter 90.82 RCW, by Joint Resolution 1-2005; and

WHEREAS Chapter 8 of the Plan is entitled "Implementation" and specifies a road map for organizing efforts and implementing actions and strategies that are recommended elsewhere in the Plan, including a statement that a coordination agency should be designated or created to coordinate implementation actions and that a water resources advisory committee (WRAC) should be established from the Planning Unit membership to provide ongoing guidance and stakeholder input on implementation and Plan amendments, and

WHEREAS, because the Plan, including "Chapter 8 Implementation," was approved by the Planning Unit and submitted to the Counties for approval prior to amendments to Chapter 90.82 RCW pertaining to plan implementation and the role of the planning unit, the provisions of Chapter 8 are both guidance for the organizational structure that will implement the Plan and the framework and criteria within which a Detailed Implementation Plan (DIP) will be prepared and adopted, unless Chapter 8 is amended per Section 3 herein ; and

WHEREAS, because it is critical to the success of the planning process that the Parties provide for broad public participation and education regarding the development and implementation of the Plan via a DIP, the Parties are hereby establishing the WRAC contemplated by the Plan, which consists of representatives of the same array of interests and stakeholders that were members of the Planning Unit appointed by the Tri-County Water Resources Agency; and WHEREAS, the Confederated Tribes and Bands of the Yakama Indian Nation have not participated in this process, and the Plan does not address water resource issues on the Yakima Reservation; and

WHEREAS, Kittitas County has opted out of the Plan and has declined to participate in the CA; and

WHEREAS, it is the intention of the Parties that this Intergovernmental Agreement will facilitate the coordination and continuation of planning and implementation of the approved Plan via a DIP; and

WHEREAS, Klickitat County will monitor the degree to which the plan might affect its interests and the Klickitat County Board of County Commissioners shall determine whether to appoint representatives from Klickitat County as voting or ex-officio members on the CA or to leave the seats that are reserved for Klickitat County representatives vacant, and Klickitat County will not be obligated for the payment of any dues until such time that it requests to become a voting member, and then such dues shall only be for the current fiscal year;

NOW, THEREFORE, in consideration of the mutual agreements, covenants and promises contained herein, the Parties agree to the following terms:

1. **DEFINITIONS**

- 1.1 "Agency" means the CA referred to in the Plan, and created hereby, which is also called the Yakima Basin Water Resources Agency whose members are the Parties hereto.
- 1.2 "Agency Director" means the person hired by the CA to handle day-to-day operations. Such person shall be an at-will employee and shall serve at the pleasure of the Agency.
- 1.3 "County" or "Counties" means Benton, Klickitat and Yakima Counties, individually or collectively, and excludes Kittitas County, which has opted out of the planning process.
- 1.4 "Detailed Implementation Plan" means, per RCWs 90.82.043 and 90.82.048, an implementation plan that includes the following, where applicable (i.e., in-stream flows were not included within the scope of the Plan):
 - Strategies to provide sufficient water for: (a) Production agriculture; (b) commercial, industrial, and residential use; and (c) in-stream flows.
 - Timelines to achieve the strategies and interim milestones to measure progress, which must address the planned future use of existing water rights for municipal water supply purposes, as defined in RCW 90.03.015, that are inchoate, including how these rights will be used to meet the projected future needs identified in the

watershed plan and how the use of these rights will be addressed when implementing instream flow strategies identified in the watershed plan.

- Clearly defined coordination and oversight responsibilities.
- Identification of any needed interlocal agreements, rules, or ordinances; state or local administrative approvals and permits that must be secured; and specific funding mechanisms. A showing of consultation with other entities planning in the watershed management area to identify and seek to eliminate any activities or policies that are duplicative or inconsistent.
- 1.5 "Parties" means those entities that are parties to this Intergovernmental Agreement.
- 1.6 "Local Governments" means counties, cities, towns, irrigation districts and any other taxing authority.
- 1.7 "Planning Costs" means (1) the cost of preparing the studies and plans relating to the preparation of a DIP; (2) the costs of legal, engineering, and other professional services relating to the formation of the CA and resolution of any disputes related thereto; and (3) other costs reasonably related to the planning process initiation, administration, auditing and general project management.
- 1.8 "Planning and Implementation Process" means the Watershed Plan preparation and implementation process provided in Chapter 90.82 RCW, the associated public involvement and education process, and activities provided for herein.
- 1.9 "Planning Unit" means the collective representatives of water resource interests who, as an autonomous body authorized under Chapter 90.82 RCW, and previously appointed by the Tri-County Water Resource Agency, were tasked with the responsibility to prepare the Plan.
- 1.10 "State" means the State of Washington and any of its agencies.
- 1.11 "Yakima Basin Water Resources Agency" means the board of that name established in Section 8 of this Agreement.
- 1.12 "SEPA" means the State Environmental Policy Act as codified in Chapter 43.21C RCW.

1.13 "Water Resources Advisory Committee" or "WRAC" means the Planning Unit.

2. DUTIES OF THE YAKIMA BASIN WATER RESOURCES AGENCY

As described in Chapter 8 of the Plan, the CA shall:

2.1 Provide intergovernmental coordination and communication.

- 2.2 Receive and administer grants and funds; identify and seek additional funding sources.
- 2.3 Support specific plan strategies that have multiple basin-wide benefits.
- 2.4 Monitor plan implementation and the development of a DIP.
- 2.5 Serve as Information clearinghouse for agencies and individuals with implementation responsibilities.
- 2.6 Identify Issues/barriers to be addressed.

2.7 Provide targeted public outreach and coordinate focused outreach as part of implementing basin-wide strategies.

- 2.8 Prepare annual progress report in coordination with the WRAC.
- 2.9 Coordinate watershed plan amendments as recommended by the WRAC.
- 2.10 Provide administrative support to the WRAC, assist in scheduling meetings, preparing agendas, taking and preparing meeting minutes and other support duties for the WRAC.
- 2.11 Upon SEPA designation, the Yakima Basin Water Resources Agency shall act as lead agency for SEPA purposes, develop policies and procedures and take such actions as reasonably necessary to insure compliance with SEPA statutory and regulatory requirements.

3. AMENDMENTS TO THE PLAN

Plan review for potential amendments shall be conducted annually by the WRAC, with any findings reported to the CA and the Counties. A comprehensive formal re-opening to identify necessary amendments to the Plan shall be conducted every five years by the CA with support from the WRAC.

Additionally, the WRAC shall prepare a DIP pursuant to RCW Sections 90.82.043, .048, etc. to be forwarded to the CA and the counties for consideration as a Plan Amendment.

All Plan amendments including the adoption of the DIP, shall be approved pursuant to the same process required under RCW 90.82.130 for approval of the original Watershed Management Plan: Yakima River Basin, including public hearings and approval by a joint resolution of the legislative authorities of the participating counties, except that the planning process termination provision in RCW 90.82.130 (2) (b) does not apply.

4. ROLES AND RESPONSIBILITY OF THE WRAC

As described in the Plan, the WRAC will provide ongoing guidance, stakeholder input, planning, implementation, and advisory functions for the Parties. Other than the responsibilities identified for the WRAC in the Plan, the WRAC shall have no authority not otherwise specifically granted to it by this agreement.

The WRAC is tasked under Chapter 90.82 RCW with preparing a DIP as per RCWs 90.82.43 and 90.82.48 and incorporating into the DIP selected implementing provisions and actions of Chapter 8 of the Plan. If, by direction of the CA, the DIP is initially drafted by a contractor, then the WRAC is tasked with reviewing the draft DIP and finalizing it, with any revisions the WRAC deems appropriate, for submittal to the CA and the Counties.

Upon joint approval of a DIP by the counties, the WRAC shall convene twice annually unless asked by the Yakima Basin Water Resources Agency to convene more frequently to assess the progress of implementation and identify nascent issues related to implementation.

As presented in Chapter 8 of the Plan, the following are additional specific WRAC responsibilities:

- Submit a DIP to the CA and the Counties per Chapter 90.82 RCW;
- Monitor Plan Implementation;
- Work with the CA to prepare the annual progress report;
- Conduct annual plan review and work with the CA on comprehensive five year Plan amendments;
- Work with the CA and other implementing agencies to identify, frame, and develop solutions for priority management issues; and
- Assist the CA in developing outreach, public involvement and funding strategies for selected actions that have basin-wide benefits.

5. SUPPORT AND FINANCING FOR PLAN IMPLEMENTATION

- 5.1 The CA is authorized to apply for and accept grants in the name of the Agency from federal, state, local and private sources, and to distribute grant funds to third parties for the purposes of facilitating the implementation of actions that are recommended in Chapter 8 of the Plan. The CA may utilize existing grant funds and appropriations in the CA's accounts for the purposes specified herein.
- 5.2 The Parties shall not be obligated to pay any debts of the CA or the WRAC. CA costs shall be funded solely through grants and/or annual dues. Dues schedule to be determined by the CA each year. The CA may accept voluntary contributions.
- 5.3 The CA shall approve annual budgets for its operations. The CA's fiscal year shall be January 1 through December 31.

5.4 The CA shall not acquire real property. Any personal property acquired for use by the CA in the name of the CA shall be sold or equitably divided among the Parties upon termination of this Agreement. If personal property is purchased utilizing State funds, as provided in Chapter 90.82 RCW, then the description of said property, and funds derived from the sale of same, shall be described in the specific grant agreements applicable to said fund sources, as well as in conformity and compliance with State administrative requirements specifically set forth by the funding CA's policies.

6. **REPORTING REQUIREMENT**

The CA director shall report monthly to the Parties regarding activities during the prior period. Reports may be provided in writing or by oral statement to the Yakima Basin Water Resources Agency Board at the monthly meeting.

7. BOOKS, ACCOUNTS AND PERSONNEL POLICIES

- 7.1 The CA shall establish a special fund with the Yakima County Treasurer to be designated "Implementation Fund of the Yakima Basin Water Resources Agency". All sums received by the CA shall be placed in said fund and all sums expended by the CA shall be disbursed from said fund. The Yakima County Treasurer shall be the custodian of the fund, and the Yakima County Auditor shall keep record of the receipts and disbursements, and shall draw and the Yakima County Treasurer shall honor and pay all warrants, which shall be approved before assurance and payment, as directed by the CA. All interests earned on sums placed in the CA's fund shall accrue to such fund. Reasonable administrative costs incurred by Yakima County in the performance of these duties shall be paid by the CA, provided, the CA is not obligated to pay any such administrative costs in excess of their fair market value.
- 7.2 The CA shall keep full and complete books of accounts showing the planning costs incurred in connection with the planning process. The cost of keeping those books shall be considered a planning cost of the CA. An audit of the books shall be performed annually by the Washington State Auditor. The cost of such audit shall be considered a planning cost. More frequent audits, if requested by any of the Parties, shall be charged to the Party making the request.
- 7.3 The CA director and any other supporting staff hired by the CA shall be independent contractors or employees of the State of Washington and/or Yakima County and shall be subject to the personnel policies of the applicable CA.

8. YAKIMA BASIN WATER RESOURCE AGENCY BOARD

8.1 There is hereby established a Yakima Basin Water Resources Agency Board to act as the governing body for the CA. All the powers and functions of the CA shall be vested in the Board.

- 8.2 The Yakima Basin Water Resources Agency Board shall consist of one representative from each participating Party appointed by its legislative authority. Each such representative shall be an elected official or the senior manager/administrator for the Party he or she represents and shall have one vote. Each Party shall also designate an official to serve as an alternate with full voting authority when the primary Party representative is not available. A quorum of the Yakima Basin Water Resources Agency Board shall be four (4) members. The Board shall take action by a simple majority plus one affirmative votes from dues paying members in good standing.
- 8.3 In January of every even numbered year, the Board shall elect a chairman and vice-chairman, each to serve a two-year term. The chairman, or in his/her absence the vice-chairman, shall conduct meetings and such other business as authorized by the Board.
- 8.4 Parties may withdraw from the CA and the Board by providing thirty days written notice to the CA director or the chairman, or by announcing a withdrawal, effective in 30 days, at a public meeting of the Board. This Intergovernmental Agreement shall remain valid and in full force and effect and the CA shall continue to serve as the coordinating agency for the watershed planning and implementation process despite any such withdrawal by one or more Parties.
- 8.5 If one or more Parties withdraw from the CA thus causing the Board to lack a quorum for meeting purposes, as defined in paragraph 8.2, the remaining Board members in attendance shall constitute a quorum for purposes of transacting business at that meeting, provided, no business may be conducted that was not listed on the Board's agenda for that particular meeting. The Board shall reexamine and if necessary revise the quorum requirement stated in paragraph 8.2 if two or more Parties withdraw from the CA.

9. AGENCY AND PUBLIC PARTICIPATION

The CA shall work in cooperation with the Yakama Nation, state and federal agencies, and local governments. Public participation, through public hearings as well as other opportunities, shall be provided by the CA as part of its management of the planning process.

10. PROTECTION OF EXISTING RIGHTS

The Plan and its implementation authorized by Chapter 90.82 RCW and this Agreement shall not contain any provisions or result in actions that are in conflict with existing state statutes, federal laws, tribal treaty rights or local government ordinances. The Plan and implementation envisioned by this Agreement is intended to have prospective application only, and to serve as a guide for future planning decisions concerning Yakima River Basin water resource allocation and protection by the Parties, state and federal agencies, and local government.

11. INTERGOVERNMENTAL AGREEMENT

This Agreement constitutes an exercise of the Parties' authority as provided under Chapter 39.34 RCW, the Interlocal Cooperation Act. A copy of this Agreement and the resolutions from each of the Parties authorizing the execution hereto shall be filed with the county auditor of each County, the State Department of Community, Trade and Economic Development, and the Secretary of State.

12. EFFECTIVE DATE/TERM OF AGREEMENT

- 12.1 This Agreement shall be effective upon execution by all signatories hereto.
- 12.2 This Agreement shall automatically terminate at such time as: a) the Board determines that the CA does not have sufficient funds necessary to meet current planning costs, unless the Parties each agree to contribute funding necessary to meet planning costs for the current fiscal year, or b) all of the Parties have withdrawn in accordance with the procedures set forth herein.
- 12.3 This Agreement shall continue, through participating Parties, unless earlier terminated by operation of Section 12.2, or at any time upon written agreement of the Parties. Individual Parties may withdraw from this agreement without affecting the continuation of this agreement.

13. GENERAL PROVISIONS

- 13.1 <u>Multiple Counterparts</u>. This Agreement may be executed in multiple counterparts, all of which shall constitute one Agreement. The execution of one counterpart by any party hereto shall not constitute an amendment or require re-execution by the parties, and shall have the same force and effect as if the party had signed all counterparts. Upon execution of this Agreement in counterpart, a duplicate signature page shall be provided to each other party previously a signatory to the Agreement, without need for further execution or ratification by any other party.
- 13.2 <u>Severability</u>. If any term or provision of this Agreement, or the application thereof to any person or circumstances, shall to any extent be invalid or unenforceable, the remainder of this Agreement or the application of such term or provision to persons or circumstances other than those as to which it is held invalid or unenforceable shall not be affected thereby, and each term and provision of this Agreement shall be valid and enforced to the fullest extent permitted by law. Further, the Parties shall negotiate in good faith regarding amendments to this Agreement that would, to the maximum extent possible, effectuate the intent of any provision determined to be invalid or unenforceable.

- 13.3 <u>Sovereign Immunity</u>. Nothing in this Agreement should be interpreted as a waiver of sovereign immunity by any party.
- 13.4 <u>Retained Authority</u>. There is no ceding of any jurisdictional and/or regulatory authority of any participating government hereto. Actions taken by any participating government are done on a voluntary basis only.
- 13.5 <u>No Third-Party Beneficiary</u>. Nothing in this Agreement is intended to create any rights in any entity not a party to this Agreement nor shall any entity be considered a third party beneficiary to this Agreement.
- 13.6 <u>No Public Official Liability</u>. No provision of this Agreement nor any authority granted by this Agreement is intended to create or result in any personal liability for any public official or agent of a party, nor shall any provision or provisions of this Agreement be construed to create any such liability.
- 13.7 <u>Construction</u>. This Agreement has been freely and fairly negotiated by the Parties hereto and has been reviewed and discussed by legal counsel for each of the Parties, each of whom has had the full opportunity to modify the draftsmanship hereof and, therefore, the terms of this Agreement shall be construed and interpreted without any presumption of other rule requiring constructional interpretation against the party causing the drafting of the Agreement.
- 13.8 <u>Assignment.</u> The obligations herein may not be assigned without the written consent of the other Parties.
- 13.9 <u>Complete Agreement</u>. This Agreement contains the complete statement of the understanding of the Parties with respect to the subject matter of this Agreement. There are no other representations, agreements, or understandings, oral or written, by the Parties relating to the subject matter of this Agreement that are not fully expressed in this Agreement. Each Party acknowledges and represents to the other Parties that it is executing this Agreement solely in reliance upon its own judgment and knowledge and that it is not executing this Agreement based upon the representation or covenant of any other Party, or anyone acting on such other Party's behalf, except as expressly stated herein. Any modifications or amendments to this Agreement shall be approved in writing by all Parties.
- 13.10 <u>Amendment</u>. This Agreement may be modified or amended at any time with the written consent of all signatory parties to the Agreement at the time of the modification or amendment.
- 13.11 Indemnification.

13.11.1 In no event shall the Parties, through participation in this Agreement, be liable to the Agency for any act or failure to act under the provisions of this Agreement. The Parties shall have no duties except those that

are expressly set forth herein. The Parties shall in no event be required to save harmless, defend or indemnify the Agency for any act or failure to act under the provisions of this Agreement, except as otherwise provided by separate agreement. The Agency shall indemnify, hold harmless, and defend each and every Party to this Agreement, including but not limited to each of the Parties' officers, directors, employees, agents, and representatives, from any and all claims, including reasonable attorney's fees, which arise out of the Agency's actions in furtherance of this Agreement. Nothing precludes the Agency from contracting for such indemnification; provided, a failure to provide indemnification by such a contractor does not excuse the Agency's obligation under this Section.

13.11.2 Each Party hereto agrees to be responsible and assume liability for its own negligent acts or omissions, or those of its officers, agents, or employees to the fullest extent required by law, and agrees to save, indemnify, defend and hold the other Parties harmless from all costs, fees, claims, judgments and/or award of damages resulting from any such liability. In the case of negligence of more than one Party, any damages allowed shall be levied in proportion to the percentage of negligence attributable to each Party, and each Party shall have the right to seek contribution for costs, fees, claims, judgments and/or damages from the other Party in proportion to the percentage of negligence attributable to the other Party. Approved as to form:

BENTON COUNTY BOARD OF COMMISSIONERS

Ryan Brown, Prosecuting Attorney	Max Benitz, Chairman	Date
ATTEST:		
ATTEST.	Leo Bowman, Commissioner	Date
Clerk of the Board	Claude Oliver, Commissioner	Date
Approved as to form:	KLICKITAT COUNTY BOARD OF	COMMISSIONERS
	Ray Thayer, Chairman	Date
ATTEST:	Joan Frey, Commissioner	Date
Clerk of the Board	Donald G. Struck, Commissioner	Date
Approved as to form: YAKI	MA COUNTY BOARD OF COMMISS	SIONERS
	Jesse Palacios, Chairman	Date
YBWRAIntergovernmental AgreementF	INAL052406	12 of 14 pages

ATTEST:		
	Mike Leita, Commissioner	Date
Clerk of the Board	Ron Gamache, Commissioner	Date
ATTEST:	CITY OF YAKIMA	
City Clerk	R. A. Zais, Jr.	Date
Contract No	City Manager	
Resolution R-2006	_	
ATTEST:	CITY OF ELLENSBURG	
City Clerk	Mayor	Date
Contract No		
ROZA IRRIGATION D	DISTRICT	

Management Consultant

Date

SUNNYSIDE VALLEY IRRIGATION DISTRICT

Manager

YAKIMA-TIETON IRRIGATION DISTRICT

Manager

Date

Date

ADDENDUM TO THE INTERGOVERNMENTAL AGREEMENT FOR THE YAKIMA BASIN WATER RESOURCES AGENCY

WHEREAS, the Intergovernmental Agreement for the Yakima Basis Water Resources Agency (hereinafter "Agreement") was approved in multiple parts with each party to sign its own copy of the Agreement, and that Benton County, a signatory, thereafter required changes to the Agreement, and:

WHEREAS, paragraph 13.9 of the Agreement provides that "[a]ny modifications or amendments to this Agreement shall be approved in writing by all Parties," and:

WHEREAS, the signatories to the Agreement wish to make the final agreement signed by all the parties conform in form and substance.

IT IS HEREBY AGREED that the following changes will be made to the Agreement:

- 1. The phrase "City of Ellensburg" will be deleted from page 1 of 14, Para. 1 at the fourth line;
- 2. That page 9 of 14, Section 12.1, line 1 the term "signatories" be changed to "parties;"
- 3. That on Page 13 of 14, on the signature page, delete the phrase "Attest: CITY OF ELLENSBURG."

Approved as to form: BENTON COUNTY BOARD OF COMMISSIONERS

Ryan Brown, Prosecuting Attorney Max Benitz, Chairman

Date

ATTEST:

Clerk of the Board

Approved as to form:

KLICKITAT COUNTY BOARD OF COMMISSIONERS

	Ray Thayer,	Chairman	Date	
ATTEST:				
Clerk of the Board				
Approved as to form: COMMISSIONERS	YAKIMA	COUNTY	BOARD	OF
	Jesse Palacio	s, Chairman		Date
ATTEST:				
Clerk of the Board				
ATTEST:	CITY OF YA	AKIMA		
City Clerk	R. A. Zais, Jr			Date
Contract No	City Manage	r		
Resolution R-2006				
ROZA IRRIGATION DISTRICT				

-

_

Management Consultant

Date

SUNNYSIDE VALLEY IRRIGATION DISTRICT

YAKIMA-TIETON IRRIGATION DISTRICT

Manager

Manager

Date

Date

YAKIMA BASIN WATER RESOURCES AGENCY

2301 Fruitvale Blvd. Yakima, Washington 98902 Phone: 509.574.2650 <u>YBWRA@co.yakima.wa.us</u>

April 6, 2007

RE: Yakima Basin Water Resource Advisory Committee (WRAC) Membership

Dear

In January 2003, the Watershed Management Plan for the Yakima River Basin was completed. The Plan was approved for WRIAs 37 and 38 in 2006. Now, the formal implementation phase of the plan is being organized through the development of a Detailed Implementation Plan (DIP). The former Steering Committee has been working to direct this effort. According to the approved Plan, the group tasked with providing ongoing guidance, stakeholder input, planning, implementation, advisory and preliminary approval functions is the Water Resources Advisory Committee (WRAC).

Preliminary work on the DIP has begun. The next task is to formally establish the WRAC and begin reviewing and overseeing the development and approval of the DIP. You are invited to participate in this important work that will help coordinate the diverse water supply, water quality and habitat needs and uses in the Yakima River Basin. Some of the work can be carried out on-line through review of materials. Meetings will be called as needed to hear presentations by implementing agencies about actions and projects they are undertaking and planning.

Please join us for our first meeting on Monday, March 23, at 7:00 PM at the Zillah Civic Center.

Sincerely,

Jim Milton, Director Yakima Basin Water Resources Agency

Water Resources Advisory Committee

Membership Form

In order to establish a procedure for consensus decision-making, it is important to clearly identify your membership status on the Water Resources Advisory Committee (WRAC). Please take a moment to fill out this form and mail it to

Yakima Basin Water Resources Agency, 2301 Fruitvale Blvd., Yakima, WA 98902.

Part of the work of the WRAC may be able to be done on-line. Meetings will be held as needed. Procedures have been proposed that may include attendance requirements for WRAC meetings. Therefore, it would be helpful for you to designate an alternate in case you cannot attend some meetings.

Primary representative:

Name		
Address		
Phone		
E-mail		
Alternate representative:		
Name		
Address		
Phone	Fax	
E-mail		

Please answer questions only from Section I OR Section II below.

Section I. Persons who do not officially represent an organization or unit of government

Please check the appropriate statement:

_____I will be a full, decision-making member for developing a Detailed Implementation Plan for watershed management in the Yakima Basin.

_____I will be an observer and/or resource, but do not wish to have a formal decisionmaking role. (Note: you will still receive all communications and meeting notices.)

Section II. Persons officially authorized to represent an organization or unit of government

Please indicate the organization or unit of government you represent:

(continues on back)

Please check any of the appropriate statements below:

My organization will be a full, decision-making member for
developing a Detailed Implementation Plan for watershed management in
the Yakima Basin.

My organization will be an observer and/or resource, but does not wish to have a formal decision making role. (Note: you will still receive all communications and meeting notices.)

_____My organization is a unit of government.

Applicant's Signature_____

For organizations or units of government that wish to have a decision-making role, please indicate the appropriate elected official(s) or senior manager who has designated you to represent your organization. In order to officially represent an organization, you must provide authorization from that person(s) within 60 days.

I authorize	to make decisions as my		
representative on the WRAC			
Name			
Signature			
Title			
Data			
Date			

ORGANIZATIONAL AND OPERATIONAL PROCEDURES DETAILED IMPLEMENTATION PLAN / YAKIMA BASIN WATERSHED PLAN

In any large and diverse organization, it is important to develop "ground rules" that allow for fair representation and productive activities. This document provides summary of some of the organizational and operational procedures for the Yakima Basin Water Resources Advisory Committee (WRAC). It is intended to be used as a discussion paper among WRAC members as they develop the most effective and efficient approach to planning. These procedures are intended to apply equally to the WRAC as a whole, and to its respective committees.

I. Membership Procedures

The Watershed Management Act charged the "Initiating Governments," formerly represented by Tri-County Water Resources Agency, with establishing the membership of the Planning Unit. Under Phase 4 Implementation, the initiating governments are represented by the Yakima Basin Water Resources Agency (YBWRA) Board, which must establish, convene, and organize the WRAC. The Board opted to issue an open invitation for membership on the WRAC. The WRAC itself is the body that develops and approves the watershed plan amendment or Detailed Implementation Plan (DIP) to be sent to the Boards of County Commissioners for final approval.

RCW 90.82 requires that plan approval be by consensus of the Planning Unit or consensus of among the members representing units of governments, and a simple majority vote of the remaining members. The Watershed Management Act requires a balanced membership on the WRAC. For both of these reasons, it is important to create a membership roster that clearly indicates which members are designated as representing units of government, as well as some indication of the "balance" among interests

The following procedures are recommended for the formal WRAC roster:

A. Members and Their Representatives

At the start of Phase 4 Implementation, a review was made of the former Planning Unit members. Contacts were made inviting future participation. Representatives of Group A water systems were contacted to determine their interest in membership on the WRAC. Membership on the WRAC will continue to be open subject to approval by the Board.

The WRAC may include both governmental organizations and individual citizens as members. Any organization that is a member of the WRAC

may be represented by a primary representative and an alternate representative.

Individual members may also designate an alternate. The Steering Committee, on behalf of the WRAC, will maintain a membership roster, which clearly distinguishes between members (e.g. an organization), and their representatives (i.e. an individual appointed to represent an organization).

B. Membership Categories and Observer / Resource Participants

1. Members Representing Units of Government

The law does not define units of government. For the purposes of the WRAC, units of government will include all those types of governments that are listed in the law as potential "initiating governments." This includes counties, cities, Indian tribes, irrigation districts, water and sewer districts, public utility districts and other public entities designated "utilities" (90.82.060 RCW). In addition, units of government include related state agencies, conservation districts, and Washington State University. Federal agencies or bureaus may be units of government with a formal agreement with the WRAC approved by the YBWRA Board, or they may be observer/resource participants (see below)

In the case of local governments, multiple departments or divisions within a single organization (e.g. different departments of one county or one city) will not be counted as multiple members. Instead, the organization (e.g. county or city) shall designate one person as the primary representative and one person as the alternate representative. A person may also attend as a nongovernmental member of the WRAC; any other persons attending on behalf of the organization will be deemed an observer / resource participant. Attached is a list of agencies/entities considered by the WRAC as units of government.

In order to represent a unit of government on the WRAC, an individual must provide written documentation that he/she has been appointed by the organization's senior management or elected decision-makers to represent the organization (note: this does not apply to individual or observer / resource participants, described below)

2. Individual Members

Members of the WRAC that do not meet the definition under units of government above shall be individual members. This includes members who represent themselves or other citizens, interest groups, etc., and employees of units of government who are members of the WRAC but were not designated by their organizations as official representatives. Individual members have voting privileges.

3. Observer / Resource Participants (Non-voting members)

Observer / resource participants will be included on the WRAC to encourage participation by organizations that do not wish to play a decision-making role with respect to the Watershed Management Plan (Plan) or the Detailed Implementation Plan or make other commitments through the planning process. For example, government agencies whose role in the basin is primarily one of providing technical assistance may wish to consider taking on the status of observer / resource participant.

Observer/resource participants will be included in all communications to WRAC members, may serve on committees of the WRAC, including chairing such committees, and may offer advice to committees and members of the WRAC. However, observer / resource participants may not take part in decisionmaking by the WRAC or its respective committees, whether by consensus or voting processes.

C. Participation / Self Regulated

In order to ensure the voting members of the WRAC are full participants in critical deliberations and to ensure that those who approve the Plan or DIP are fully informed of the contents and the reasons for the contents, it is necessary for members to attend and participate in meetings. Therefore, voting members should be limited to active participants and members who do not regularly attend meetings should be considered non-voting, observer / resource participants.

II. Voting or Consensus Procedures

According to the terms of the Watershed Management Act (RCW 90.82.130) the WRAC "may approve the proposal by consensus of all of the members of the (WRAC) or by consensus among the members of the (WRAC) appointed to represent units of government and a majority vote of the nongovernmental members of the (WRAC)." The IGA specifies, "All plan amendments, including

the adoption of the DIP, shall be approved pursuant to the same process required under RCW 90.82.130 for approval of the original Watershed Management Plan." However, there may be circumstances in which the WRAC or a committee, by consensus, chooses to delegate some types of decisions to another type of process.

For decision-making by the full WRAC, a quorum is defined as 60% of the governmental and 60% of the individual WRAC members considered active on the roster at the time the meeting is held (Observer/Resource Participants are not counted in establishing a quorum.)

For decision-making by any committee of the WRAC, each committee shall determine what constitutes a quorum, subject to approval by the WRAC.

Decision procedures are defined as follows:

<u>Consensus</u>: Every member present affirms that they either support the proposed action or that they do not oppose it. Members opposing a proposed action should specify their reasons for opposing in order to address problem issues and work toward consensus

<u>Majority</u>: More than half of the members present affirm that they support the proposed action

Whether consensus or some other form of decision - making is used, each member is allowed a single vote in the decision-making process of the WRAC and its respective committees. In all decision-making procedures, the member shall be represented by the primary representative, if present, or by the alternate if the primary representative is not present. Individual members must be present in order to vote.

III. Discussion Procedures

Each Committee of the WRAC shall select a Chair and Vice-Chair. Meetings of each committee shall be led by the Chair or Vice-Chair. Meetings of the full WRAC shall be led by the Chair or Vice-Chair of the Steering Committee.

In general, the WRAC and committees will use an informal approach to foster free and frank discussion.

Units of Government:

Counties Cities Irrigation Districts Sewer Districts Water Districts Conservation Districts Washington State University Health Districts State Agencies (as part of the State Caucus*) Federal Agencies (with approved partnership agreements)

*The State Caucus is made up of participating state "resource" agencies. The Caucus is led by the Department of Ecology as designated by the initiating governments at the beginning of the planning process. The state caucus must cast one "caucus" vote.

ROLES AND DUTIES OF THE STEERING COMMITTEE (per Planning Unit Organizational Procedures)

The Steering Committee was initially appointed by county governments to include four members per county representing counties, cities, irrigation districts and environmental interests. Subsequent appointments to the Steering Committee are by recommendation of the WRAC to the YBWRA Board.

- Meet regularly with the chairs of the WRAC committees and consultant, as appropriate, to monitor the progress and direction of the Plan/DIP. Facilitate communication among the committees and between the committees and the WRAC, including review of draft products
- Determine the need for, create an agenda, and schedule meetings of the WRAC as a whole. The Chair or Vice-Chair of the steering committee will conduct WRAC meetings
- At the direction of the WRAC, develop the scope of work and prepare applications for planning grants to Ecology and other funding sources and submit such applications through the YBWRA as lead agency for the planning/ DIP process
- Submit recommendations of the WRAC to the YBWRA for appointment of additional members to the WRAC
- Serve as point of contact with state, federal and other agencies and interests on matters common to the planning process
- Assume the coordination for planning activities common to the planning / implementation process, such as public participation and outreach and data management
- Facilitate, coordinate and integrate external and internal activities of the WRAC and its committees
- And other duties as assigned by the WRAC

ROLES AND DUTIES OF THE YAKIMA BASIN WATER RESOURCES AGENCY (per Intergovernmental Agreement)

- Provide intergovernmental coordination and communication
- Receive and administer grants and funds; identify and seek additional funding sources
- Support specific plan strategies that have multiple, basin-wide benefits
- Monitor plan implementation and the development of a DIP
- Serve as information clearinghouse for agencies and individuals with implementation responsibilities
- Identify issues/barriers to be addressed
- Provide targeted public outreach and coordinate focused outreach as part of implementing basin-wide strategies
- Prepare annual progress report in coordination with the WRAC
- Coordinate watershed plan amendments as recommended by the WRAC
- Provide administrative support to the WRAC, assist in scheduling meetings, preparing agendas, taking and preparing meeting minutes, and other support duties for the WRAC
- Upon SEPA designation, the YBWRA shall act as lead agency for SEPA purposes, develop policies and procedures and take such actions as are reasonably necessary to insure compliance with SEPA statutory and regulatory requirements

ROLES AND DUTIES OF THE WRAC (per Intergovernmental Agreement

- As described in the Plan, provide ongoing guidance, stakeholder input, planning, implementation, and advisory functions for the Parties. Other than the responsibilities identified for the WRAC in the Plan, the WRAC shall have no authority not otherwise specifically granted to it by this agreement
- The WRAC is tasked under Chapter 90.82 RCW with preparing a DIP as per RCWs 90.82.43 and 90.82.48 and incorporating into the DIP selected implementing provisions and actions of Chapter 8 of the Plan. If, by direction of the CA, the DIP is initially drafted by a contractor, then the WRAC is tasked with reviewing the draft DIP and finalizing it, with any revisions the WRAC deems appropriate, for submittal to the CA and the Counties
- Upon joint approval of a DIP by the Counties, the WRAC shall convene twice annually, unless asked by the YBWRA to convene more frequently, to assess the progress of implementation and identify nascent issues related to implementation
- As presented in Chapter 8 of the Plan, the following are additional specific WRAC responsibilities:
 - Submit a DIP to the CA and the Counties per Chapter 90.82 RCW
 - Monitor plan implementation
 - Work with the CA to prepare the annual progress report
 - Conduct annual plan review and work with the CA on comprehensive, five-year plan amendments
 - Work with the CA and other implementing agencies to identify, frame, and develop solutions for priority management issues, and
 - Assist the CA in developing outreach, public involvement and funding strategies for selected actions that have basin-wide benefits

			ivities in 2006 in the Ya		
Agency	Brief Description	Parameters	Frequency	Number of sites	Locations
Benton Conservation District	Evaluate temperature in the Yakima R. before planting riparian buffer.	Temperature	Continuous for unknown duration this spring.	Unknown.	Yakima R. adjacent to Horn Rapids Park.
	Assist USGS, SYCD w/ Eutrophication Study.		See USGS	S-Portland.	
Kennewick Irrigation District	Ambient	Turbidity, NO3+2, DO, pH, specific conductance, temperature.	Monthly.	4 canal sites	Kennewick Irrigation District canal.
	NPDES compliance.	Acrolein, copper sulfate	During treatment.	2 discharge pts.	Amon Ck Wasteway (spills to Yakima R.) and Hover (spills to Columbia R.).
Kittitas County Conservation District	in support of the Upper Yakima Suspended Sediment, Turbidity and Organochlorine Pesticide TMDL.	TSS, turbidity, temperature	Temperature, continuous from at least June thru Sept. Turbidity and TSS: biweekly April-June and monthly from July onwards.		Teanaway tributaries and mainstem.
Kittitas County Water Purveyors	Compliance with Upper Yakima TSS TMDL	TSS, Q, turbidity, temperature	Turbidity weekly and continuously. TSS & Q bi- weekly. Turbidity monitors deployed March to as late as possible.	11 turbidity (discrete sampling) & TSS sites. 5 Q sites. 5 turbidity continuous monitor sites.	TSS TMDL sites: Yakima R. tribs (irrigation return drains and creeks). Continuous turbidity monitors: Wipple Wasteway, Naneum Ck at Fiorito, Cherry Ck above Whipple WW, Wilson Ck.
	Baseline temperature data to prepare for future TMDLs.	Temperature	Temperature loggers deployed April-October.	80 temperature loggers.	Yakima R. mainstem and tribs.
Kittitas Reclamation District	NPDES permit compliance.	Acrolein, xylene, copper sulfate	During treatment. Generally one or more waterways are treated each week from late May to early September.	sampled in any given week.	creeks and the Yakima R. at 18 locations.
North Yakima Conservation District	Evaluate water quality for salmonid suitability.	Temperature, DO, pH, specific conductance, salinity, turbidity, NO3+2, TP, fecal coliform, total coliform, and <i>e. coli</i> .	Twice monthly, except continuous temperature monitors.	12	Taylor Ditch (Yakima R. trib).

Agency	Brief Description	Parameters			Locations			
Roza-	Long-term monitoring of major	Q, Turbidity, TSS, TP,		6 discrete plus 22	Discrete sampling in Granger			
Sunnyside	canal diversions and mouths of	TKN, NH3 if TKN > 1	irrigation season, except	temperature sites.	Drain, Sulphur Creek Wasteway,			
Board of Joint	major irrigation return drains.	mg/L, NO3+2, fecal	weekly at Granger Drain.		Spring Creek, Snipes Creek,			
Control		coliform, <i>e. coli</i>	Monthly during non-irrigation		Roza Diversion, and Sunnyside			
		(Granger Drain only),	season.		Canal Diversion. Temperature			
		DO, pH, and specific			loggers at several sites in the			
		conductance.			drains.			
		Temperature (grab and						
		continuous).						
	Artificial wetlands treatment	Turbidity, TSS, TP,	Every other week		RSBOJC wetland on DR 25.			
	effectiveness.	TKN, NO3+2, fecal		leading to the				
		coliform, Q, DO, pH,		wetland, 3 in the				
		temperature, and		wetland.				
		specific conductance.						
	NPDES permit compliance.	Acrolein			Irrigation return drains and			
			one or more waterways are	sampled in any	canals which discharge into the			
				given week.	Yakima R.			
			May to early September.					
South Yakima	Lower Yakima River							
Conservation	Eutrophication Study		See USGS	S-Portland.				
District								
US Bureau of	Ambient	Temperature, Q	Real-time	21 temp,	Keechelus to Prosser.			
Reclamation				29 stream Q,	Bumping/Tieton to			
				14 canal Q	mouth of Naches.			
	Model development	Temperature	Daily	± 12	8 mainstem -Swauk to Granger.			
					Big, Satus, Toppenish,			
					Teanaway.			
		Sediment	Seasonal	10 to 12	Easton to Grandview.			
USFS-Naches	Ambient	Temperature	Continuous June-October	25 to 50 sites	Mainstem and tributaries upper			
Ranger District					Naches Basin.			
	Forest plan compliance, in	Fine sediment in	Late summer annually	8-10 reaches	Little Naches Basin, South Fork			
	cooperation with the Yakama	spawning gravels			Tieton River.			
	Nation.							
USGS-Pasco	Long-term flow monitoring.	Q	Every 6-8 weeks. 4 sites are	6	American R. nr confluence with			
			real-time.		Bumping Lake, Ahtanum Ck nr			
					mouth, and Yakima R. at			
					Umtanum, Union Gap, Mabton,			
			J		and Kiona.			
	Assist with special projects.	pecial projects. See USGS-Tacoma.						

Agency	Brief Description	Parameters	Frequency	Number of sites	Locations
USGS-Portland	Lower Yakima River Eutrophication Study	Continuous: DO, pH, temperature, specific conductance, and turbidity. Discrete: TP, OP, NO3+2, TKN, ammonia, chlorophyll <i>a</i> , ash-free dry mass, photosynthetically- available radiation, macrophyte biomass.	Continuous: every 15 minutes. Discrete: intermittent.	2 continuous monitor sites. 5 nutrient sites.	Continous monitors at Kiona and near Zillah. Nutrient and other sampling throughout Kiona and Zillah reaches.
USGS-Tacoma	NAWQA water quality monitoring	Suspended sediment, chlorides and sulfates, nutrients, pesticides.	6 times per year	1 site	Yakima River at Kiona.
	Develop temperature model for Yakima and Naches rivers.	Temperature, Q	Continuous: 30 minute intervals.	14 temperature monitoring sites, 4 temp. and stage monitoring sites.	Gold Creek nr Hyak, Box Canyon Ck, Tieton R. nr. mouth, Naches R.at Cowiche Diversion Dam, Cowiche Ck nr mouth, Wide Hollow Ck nr mouth, Yakima R.at Union Gap, Yakima R. at Wapato Wells, Lateral 1 nr. Wapato, E.Toppenish Drain nr.Toppenish, Sub Drain #35 at Connie Rd., Marion Drain at Indian Church Rd., Toppenish Ck. at Indain Church Rd., Coulee Drain at Satus Rd., Satus Ck nr. Satus, South Drain at Hwy. 22, DID #7at Green Valley Rd., Satus Drain 303 and Mabton Wasteway.
Project (Bureau of Indian Affairs)	Long-term monitoring of major irrigation return drains.	TSS, turbidity, NO3+2, TKN, NH3, TP, fecal coliform, <i>e. coli.</i>	Monthly or every other week during irrigation season.	8	Marion Drain, Sub Drain 35 @ Connie Rd, Parton Drain, Sub Drain 93, E. Toppenish Drain, Sub Drain 35, Mud Lake Drain, main canal diversion.
Washington Dept. of Ecology	Long-term monitoring	Conductivity, fecal coliform, flow, NH3, NO3+2, OP, TP, DO, pH, temperature, barometric pressure, TSS, TPN, turbidity.	Monthly.	3	Yakima R. near Cle Elum, at Nob Hill, and at Kiona.

Agency	Brief Description	Parameters	Frequency	Number of sites	Locations
Washington Dept. of Ecology (continued)	Yakima Tributaries Fecal Coliform Bacteria TMDL Assessment	Fecal coliform, TSS, turbidity, chloride, Q, <i>e.coli</i> , %KES (Klebsiella, Enterobacter, Serratia), pH, DO, conductivity, temperature, time-of-	Monthly or twice monthly at fixed stations plus approx. 8 synoptics over 2 years, incl. 2 stormwater events.	28	Ahtanum Ck, Wide Hollow Ck, Moxee Drain.
	Effectiveness monitoring for the Upper Yakima Suspended Sediment, Turbidity and Organochlorine Pesticide TMDL.	travel. Turbidity, TSS, total volatile solids.	Every other week during irrigation season. Concurrent sampling monthly w/ KRD and KCCD at Manashtash Ck.	6	Manashtash Ck, Naneum Ck, (background sites) and Yakima R. at Cle Elum, Umtanum Rd, near mouth of Umtanum Ck, and at Harrison Rd bridge.
	Pesticide monitoring in conjunction with Washington Dept. of Agriculture.	51 pesticides and degradates, incl. DDT, azinphos methyl, carbaryl, chlorpyrifos, diazinon, disulfoton, and malathion. Q at Marion Drain and Spring Ck.	Weekly, March thru Oct.	4	Marion Drain, Sulphur Creek Wasteway, Spring Ck (2 sites).
	Lower Yakima River TSS & DDT effectiveness monitoring	DDT, metabolites, dieldrin, endosulfan, PCBs, fish tissue	One-time		Keechulus & Kachees reservoir, YR at 4 sites (below Cle Elum, Ellensburg, Naches R, Cowiche Ck) and in 3 reaches (Wapato, Sunnyside, Kiona).
Yakama Nation	Long-term monitoring of major irrigation return drains.	TSS, turbidity, NO3+2, TKN, ammonia, TP,fecal coliform, <i>e.</i> <i>coli.</i>	Monthly or every other week during irrigation season.	10	Satus Drain 303, Satus Drain 302, Spillway Drain 2, Satus South Drain, Satus North Drain, Satus Ck @ Diversion Dam, Satus Canal Diversion nr Fish Screen, Satus Ck @ Gaging Station, Lower Toppenish Ck, Coulee Drain.

ID Number	WS Name	County	Group	Type	<u>Status</u>	WS Effective	<u># Active</u> Sources	<u>Connections</u>	Population	<u>Permit</u> Color*
<u>00431</u>	HI VALLEY VIEW	YAKIMA	А	Comm	Act	2/1/1979	1	19	67	Green
<u>01608</u>	ALLAN BROS WAREHOUSE	YAKIMA	А	NTNC	Act	1/1/1979	1	1		Blue
<u>01985</u>	AMERICAN LEGION	YAKIMA	А	TNC	Act	1/1/1970	1	2		Blue
<u>02351</u>	SUNNYVIEW PARK	YAKIMA	А	TNC	Act	6/3/1993	1	2		Blue
<u>02873</u>	G & G ORCHARD	YAKIMA	А	TNC	Act	11/12/1993	1	2	3	Blue
<u>03386</u>	EL RINCON RESTAURANT	YAKIMA	А	TNC	Act	5/10/1994	1	1		Green
<u>03594</u>	RCs Restaurant	YAKIMA	А	TNC	Act	4/28/2004	1	1		Blue
<u>03698</u>	GROMORE TRADING COMPANY	YAKIMA	А	TNC	Act	8/9/1994	1	1		Green
<u>03839</u>	GOOSE PRAIRIE INN	YAKIMA	А	TNC	Act	9/21/1994	1	1		Green
<u>03939</u>	RIMROCK SOUTH WATER ASSOCIATION	YAKIMA	А	TNC	Act	10/28/1994	1	25		Green
<u>04136</u>	COUNTRY PLACE MARKET	YAKIMA	А	TNC	Act	1/10/1995	1	1		Green
<u>04157</u>	TEDDY BEAR CORNER	YAKIMA	А	NTNC	Act	1/25/1995	1	5		Green
04302	EATON HILL WINERY WELL	YAKIMA	А	TNC	Act	2/24/1995	1	3	1	Green
<u>04316</u>	COWICHE WATER ASSOCIATION	YAKIMA	А	Comm	Act	3/7/1995	1	18	48	Green
<u>04410</u>	BORTON & SONS INC	YAKIMA	А	NTNC	Act	1/1/1970	2	4	10	Blue
<u>04455</u>	Stars Child Care Learning Center	YAKIMA	А	NTNC	Act	5/2/1995	1	1		Green
<u>04513</u>	NILE VALLEY COMMUNITY CHURCH	YAKIMA	А	TNC	Act	5/25/1995	1	2	2	Green
<u>04694</u>	MT ADAMS COUNTRY CLUB ESTATES	YAKIMA	А	Comm	Act	8/2/1995	2	12	28	Green
<u>04776</u>	USDA AGRICULTURAL RESEARCH SERVICE	YAKIMA	А	NTNC	Act	9/19/1995	1	1		Blue
<u>05885</u>	BERTSCH SUBDIVISION WATER ASSN	YAKIMA	А	Comm	Act	1/1/1970	1	34	100	Green
<u>06029</u>	YAK CO - TERRACE HEIGHTS	YAKIMA	А	Comm	Act	2/1/1981	6	1,369	3,602	Green
<u>06287</u>	FAITH COMMUNITY CHURCH	YAKIMA	А	TNC	Act	11/25/1997	1	2	4	Green
<u>06673</u>	HIGHLAND QUICK STOP	YAKIMA	А	TNC	Act	5/4/2005	1	1		Green
<u>06872</u>	DBA TROUT MEADOWS	YAKIMA	А	TNC	Act	11/18/1998	1	25	5	Blue
<u>07168</u>	COUNTRY FOODS USA	YAKIMA	А	TNC	Act	7/22/2003	1	1		Green
<u>07402</u>	INABA FARMS/PEPPERFIELD VILLAGE	YAKIMA	А	TNC	Act	9/10/1999	1	4		Green
<u>07406</u>	UCA/YAKIMA FIELD OFFICE COMPLEX	YAKIMA	А	NTNC	Act	9/14/1999	1	10		Blue
<u>08242</u>	CLEAR LAKE GRACE BRETHREN CAMP INC	YAKIMA	А	TNC	Act	1/1/1970	1	6	2	Blue

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<u>08364</u>	BRIDLE MOOR WATER ASSOCIATION	YAKIMA	А	Comm	Act	1/1/1970	1	17	44	Green
<u>08371</u>	RICHARDSON WATER COMPANY	YAKIMA	А	Comm	Act	8/1/1981	2	144	185	Green
<u>08815</u>	BROWN TAYLOR WATER CO INC	YAKIMA	А	Comm	Act	1/1/1970	1	26	45	Green
<u>09570</u>	BURMAN ACRES WATER	YAKIMA	А	Comm	Act	7/1/1978	1	23	92	Green
<u>10100</u>	BUTTERFIELD WATER COMPANY	YAKIMA	А	Comm	Act	1/1/1970	2	36	108	Green
<u>11625</u>	CASCADIA PARK WATER COMPANY	YAKIMA	А	Comm	Act	1/1/1970	1	31	93	Green
<u>12239</u>	CHARLENE HEIGHTS WELL CO	YAKIMA	А	Comm	Act	1/1/1970	1	12	30	Green
<u>12384</u>	CHELMINAR SUMMER HOME ASSN	YAKIMA	А	TNC	Act	1/1/1970	1	2	2	Blue
<u>14540</u>	CONGDON ORCHARDS INC	YAKIMA	А	Comm	Act	7/1/1978	1	10	25	Green
<u>14572</u>	ALPS MOBILE HOME PARK	YAKIMA	А	Comm	Act	11/1/1982	1	60	150	Green
<u>15501</u>	COUNTRY CLUB ESTATES HOA	YAKIMA	А	Comm	Act	1/1/1970	1	37	70	Green
<u>15514</u>	COUNTRY MOBILE ESTATES	YAKIMA	А	Comm	Act	1/1/1970	3	64	180	Green
<u>15636</u>	COWICHE COMMUNITY WELL	YAKIMA	А	TNC	Act	1/1/1970	1	9	10	Blue
<u>16242</u>	YAK CO - CREWPORT	YAKIMA	А	Comm	Act	1/1/1970	2	48	192	Green
<u>18620</u>	CLIFFDELL SUMMER HOMES ASSN	YAKIMA	A	TNC	Act	1/1/1970	1	29	6	Blue
<u>20030</u>	DRUSE WATER ASSOCIATION	YAKIMA	А	Comm	Act	1/1/1970	1	12	32	Green
<u>20816</u>	EAGLE ROCK RESORT	YAKIMA	А	TNC	Act	11/21/2002	1	14	2	Blue
<u>21450</u>	EAST RIDGE PARK WATER CO	YAKIMA	А	Comm	Act	1/1/1970	3	64	150	Green
<u>21728</u>	EAST VALLEY MARKET	YAKIMA	А	TNC	Act	7/1/1978	1	1		Blue
<u>21740</u>	EAST VALLEY MOBILE RANCH	YAKIMA	А	Comm	Act	1/1/1970	3	62	114	Green
<u>22418</u>	EDGEWATER CAMP	YAKIMA	А	TNC	Act	1/1/1970	1	14	14	Blue
<u>22596</u>	EL CORRAL MOTEL	YAKIMA	А	TNC	Act	7/1/1978	1	18	3	Blue
<u>25032</u>	FIFE BSA CAMP	YAKIMA	А	TNC	Act	1/1/1970	2	34	1	Blue
<u>25726</u>	FLYING H YOUTH RANCH	YAKIMA	А	NTNC	Act	1/1/1970	1	8	16	Green
<u>26445</u>	CARRIAGE HILL ESTATES	YAKIMA	А	Comm	Act	1/1/1970	2	83	200	Green

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<u>27112</u>	PACE INTERNATIONAL	YAKIMA	А	NTNC	Act	1/1/1979	1	5		Blue
<u>27550</u>	CAMP GHORMLEY	YAKIMA	А	TNC	Act	1/1/1970	3	16	10	Blue
<u>27828</u>	GLEED MOBILE ESTATES	YAKIMA	А	Comm	Act	1/1/1970	2	36	75	Green
<u>28376</u>	Gold Creek Station	YAKIMA	А	TNC	Act	1/1/1970	1	4	5	Blue
<u>28970</u>	GRANDVIEW, CITY OF	YAKIMA	А	Comm	Act	1/1/1970	11	2,621	8,700	Green
<u>29000</u>	GRANGER WATER DEPARTMENT	YAKIMA	А	Comm	Act	1/1/1970	3	603	2,835	Green
<u>29450</u>	GREEN MEADOWS SUBDIVISION	YAKIMA	A	Comm	Act	1/1/1970	1	14	32	Green
<u>29597</u>	GREEN VALLEY ESTATES WATER ASSN	YAKIMA	А	Comm	Act	1/1/1970	1	15	60	Green
<u>31400</u>	HARRAH WATER SYSTEM	YAKIMA	А	Comm	Act	1/1/1970	1	174	550	Blue
<u>31495</u>	HART CREEK SUMMER HOMES	YAKIMA	А	TNC	Act	1/1/1970	1	57	2	Green
<u>32745</u>	HIGHLAND HIGH SCHOOL	YAKIMA	А	NTNC	Act	1/1/1970	1	2		Blue
<u>33260</u>	HILLSIDE PARK ADDITION	YAKIMA	А	Comm	Act	1/1/1979	1	14	45	Green
<u>34301</u>	YAK CO - BUENA WATER SYSTEM	YAKIMA	А	Comm	Act	7/1/1986	3	211	800	Blue
<u>35725</u>	NC MACHINERY CO	YAKIMA	А	NTNC	Act	7/1/1978	1	1		Green
<u>37620</u>	KAMPGROUNDS OF AMERICA	YAKIMA	А	Comm	Act	1/1/1970	1	99	30	Green
<u>38280</u>	KERSHAW FRUIT COMPANY	YAKIMA	А	NTNC	Act	7/1/1978	1	1		Blue
<u>42948</u>	WHISPERING PINES	YAKIMA	А	Comm	Act	1/1/1970	2	65	100	Green
<u>43282</u>	KWIK LOK CORPORATION	YAKIMA	А	NTNC	Act	7/1/1978	1	1		Blue
<u>46219</u>	LAURA LEE MOBILE HOME PARK	ΥΑΚΙΜΑ	A	Comm	Act	1/1/1970	1	48	72	Green

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<u>47820</u>	LOMBARD LOOP WATER ASSOCIATION	YAKIMA	А	Comm	Act	1/1/1970	3	70	180	Green
<u>49650</u>	MABTON, CITY OF	YAKIMA	А	Comm	Act	1/1/1970	3	671	2,045	Green
<u>51560</u>	MARCUS WHITMAN SCHOOL	YAKIMA	А	NTNC	Act	1/1/1970	1	1		Blue
<u>51899</u>	MARYS GARDEN	YAKIMA	А	Comm	Act	1/1/1979	1	109	350	Green
<u>51915</u>	MANHASSET SPECIALTY COMPANY	ΥΑΚΙΜΑ	А	NTNC	Act	2/1/1979	1	3		Blue
<u>52154</u>	MCAULEYS HOME SITES	YAKIMA	А	Comm	Act	7/1/1978	1	23	55	Green
<u>56390</u>	MT ADAMS COUNTRY CLUB	YAKIMA	А	TNC	Act	1/1/1970	1	2	1	Green
<u>56398</u>	COWICHE GROWERS INC	YAKIMA	А	NTNC	Act	10/1/1989	2	3	10	Blue
<u>56830</u>	MOUNTAIN VIEW MOBIL HOMES	ΥΑΚΙΜΑ	A	Comm	Act	1/1/1970	3	40	146	Green
<u>57200</u>	MOUNTAINVIEW ELEMENTARY SCHOOL	YAKIMA	А	NTNC	Act	1/1/1970	1	1		Blue
<u>57300</u>	MOXEE WATER DEPARTMENT	YAKIMA	А	Comm	Act	1/1/1970	2	767	1,800	Green
<u>58100</u>	NACHES, TOWN OF	YAKIMA	А	Comm	Act	1/1/1970	3	360	755	Green
<u>58105</u>	NACHES WONDERLAND CAMPERS ASSN	YAKIMA	A	TNC	Act	1/1/1970	2	69	2	Blue
<u>58650</u>	NEALS VALLEY VIEW ADDITION WTR CO	YAKIMA	A	Comm	Act	1/1/1970	1	25	62	Green
<u>59700</u>	NOB HILL WATER ASSOCIATION	YAKIMA	A	Comm	Act	1/1/1970	6	9,695	24,238	Green
<u>61425</u>	NORTH TERRA VISTA WATER USERS ASSN	YAKIMA	А	Comm	Act	1/1/1970	1	18	52	Green
<u>62020</u>	APPLE KING LLC	YAKIMA	А	NTNC	Act	7/1/1978	1	2		Blue

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<u>62476</u>	MANYS CHINOOK CENTER	YAKIMA	А	TNC	Act	6/1/1990	1	1		Blue
<u>64937</u>	OUTLOOK COMMUNITY WATER	ΥΑΚΙΜΑ	А	Comm	Act	1/1/1970	3	66	282	Green
<u>64940</u>	OUTLOOK ELEMENTARY SCHOOL	ΥΑΚΙΜΑ	A	NTNC	Act	1/1/1970	1	1		Blue
<u>65919</u>	PANORAMA PLACE WATER ASSN	YAKIMA	А	Comm	Act	1/1/1979	1	47	220	Green
<u>66185</u>	EPIC HEADSTART	YAKIMA	А	NTNC	Act	1/1/1970	1	1		Blue
<u>67503</u>	PINE CLIFFS MAINT CO INC	YAKIMA	A	TNC	Act	1/1/1979	1	39	14	Green
<u>69900</u>	PUMP 8 DOMESTIC WATER ASSN	YAKIMA	A	Comm	Act	1/1/1970	1	16	75	Green
<u>70630</u>	RAYBUNG COMMUNITY WELL	ΥΑΚΙΜΑ	А	Comm	Act	1/1/1970	1	23	55	Green
<u>71725</u>	REGAL MOBILE ESTATES	YAKIMA	А	Comm	Act	1/1/1970	2	80	127	Green
<u>73927</u>	CAMP ROGANUNDA	YAKIMA	А	TNC	Act	1/1/1970	1	11	1	Green
<u>75205</u>	SADDLE RIDGE WATER USERS	YAKIMA	А	Comm	Act	1/1/1979	1	15	60	Green
<u>75380</u>	ST. PETERS CHURCH & RETREAT CENTER	YAKIMA	A	TNC	Act	9/1/1979	2	6	13	Blue
<u>79215</u>	SILVER DOLLAR CAFE	YAKIMA	А	TNC	Act	1/1/1970	1	2	1	Blue
<u>80205</u>	SKYLINE MOBILE HOME PARK	YAKIMA	A	Comm	Act	1/1/1970	2	160	340	Green
<u>80925</u>	SNOKIST GROWERS-CANNERY DIVISION	ΥΑΚΙΜΑ	A	NTNC	Act	1/1/1970	3	2		Blue
<u>81851</u>	SOUTH HILLS WATER USERS ASSN INC	YAKIMA	A	Comm	Act	7/1/1978	1	46	135	Green

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<u>83468</u>	SQUAW ROCK RESORT	YAKIMA	А	TNC	Act	1/1/1970	1	72	9	Blue
<u>83825</u>	STARKS MOBILE HOME COURT	YAKIMA	А	Comm	Act	1/1/1970	1	28	60	Green
<u>85121</u>	SUN ACRES ROAD & WATER ASSN	YAKIMA	А	Comm	Act	1/1/1979	1	18	43	Green
<u>85138</u>	SUN-TIDES RV PARK	YAKIMA	А	TNC	Act	1/1/1970	1	61	47	Blue
<u>85400</u>	SUNNYSIDE, CITY OF	YAKIMA	А	Comm	Act	1/1/1970	7	3,188	14,930	Green
<u>86280</u>	SUNTIDES MOBILE PARK	YAKIMA	А	Comm	Act	1/1/1970	1	56	63	Green
<u>86284</u>	SUN TIDES VISTA HOMEOWNERS ASSN	YAKIMA	A	Comm	Act	1/1/1970	3	100	350	Green
<u>87144</u>	Tampico Drive Well Owners Assn	YAKIMA	А	Comm	Act	1/1/1970	2	18	42	Blue
<u>87600</u>	TERRACE PARK WATER ASSOCIATION	ΥΑΚΙΜΑ	А	Comm	Act	1/1/1970	2	23	50	Green
<u>88298</u>	TIETON HILLS WATER CO	YAKIMA	А	Comm	Act	1/1/1970	3	32	75	Green
<u>88300</u>	TIETON WATER DEPT, CITY OF	YAKIMA	А	Comm	Act	1/1/1970	1	382	1,190	Green
<u>88785</u>	TOOP WATER ASSN INC	YAKIMA	А	Comm	Act	1/1/1970	1	28	80	Green
<u>88850</u>	TOPPENISH WATER DEPARTMENT	ΥΑΚΙΜΑ	А	Comm	Act	1/1/1970	5	2,101	8,946	Green
<u>89457</u>	TROUT LODGE	YAKIMA	А	TNC	Act	1/1/1970	2	8	5	Green
<u>90250</u>	UNION GAP WATER	YAKIMA	А	Comm	Act	1/1/1970	5	1,552	3,570	Green
<u>91912</u>	WILLOW TREE PARK	YAKIMA	А	Comm	Act	1/1/1979	3	45	176	Green
<u>91913</u>	VILLAGE COURT APTS	YAKIMA	А	Comm	Act	1/1/1970	1	17	60	Green
<u>92800</u>	WAPATO WATERWORKS	YAKIMA	А	Comm	Act	1/1/1970	6	1,107	4,535	Green

ID Number -	WS Name	<u>County</u>	Group	Type	<u>Status</u>	WS Effective	<u># Active</u> Sources	Connections	Population	<u>Permit</u> Color*
<u>93061</u>	WASHINGTON BEEF LLC	YAKIMA	А	NTNC	Act	12/1/1979	2	4		
<u>96096</u>	WHISTLIN JACK LODGE INC	YAKIMA	А	TNC	Act	1/1/1970	2	10	5	Blue
<u>98045</u>	WOLFE WATER ASSOCIATION	YAKIMA	А	Comm	Act	1/1/1970	1	27	59	Green
<u>98189</u>	WOODLAND PARK MOBIL COURT	YAKIMA	A	Comm	Act	1/1/1970	1	32	75	Green
<u>99070</u>	YAKIMA ASPHALT & PAVING CO	YAKIMA	А	TNC	Act	1/1/1970	1	1		Blue
<u>99087</u>	Yak Co - ESCHBACH PARK	YAKIMA	А	TNC	Act	1/1/1979	1	14		Blue
<u>99104</u>	YAKIMA TRAINING CENTER - POMONA	YAKIMA	A	NTNC	Act	1/1/1979	3	148		Green
<u>99110</u>	YAKIMA GOLDING FARMS 1	YAKIMA	А	TNC	Act	1/1/1970	1	25		Green
<u>99114</u>	DBA The Ice Rink	YAKIMA	А	TNC	Act	1/1/1970	1	1		Blue
<u>99150</u>	YAKIMA WATER DIVISION, CITY OF	YAKIMA	A	Comm	Act	1/1/1970	7	27,258	65,038	Green
<u>99800</u>	ZILLAH, CITY OF	YAKIMA	А	Comm	Act	1/1/1970	3	905	2,472	Green
<u>AA432</u>	Windy Point Fruit Ranch	YAKIMA	А	TNC	Act	9/15/2003	1	3	4	Blue
<u>AA989</u>	Silver Cove Summer Home Association	YAKIMA	А	TNC	Act	1/31/2005	1	21		Blue
<u>AB363</u>	Campbell Farm Potable Well	YAKIMA	А	TNC	Act	4/7/2006	2	5	9	Green
<u>AB377</u>	Memorial Bible Church	YAKIMA	А	TNC	Act	7/24/2006	1	3		Green
<u>AB540</u>	DeVries Dairy South Well System	YAKIMA	А	NTNC	Act	4/6/2006	1	1		Blue
<u>AB550</u>	Judys Junction	YAKIMA	А	NTNC	Act	10/10/2006	1	1		Green
<u>AB700</u>	Wineglass Cellars	YAKIMA	А	TNC	Act	3/14/2007	1	2	3	Blue
<u>AB701</u>	Agate Field Vineyard	YAKIMA	А	TNC	Act	3/14/2007	1	2		Blue

ID Number -	WS Name	<u>County</u>	Group	<u>Type</u>	<u>Status</u>	WS Effective	<u># Active</u> Sources	<u>Connections</u>	Population	<u>Permit</u> Color*
<u>AB702</u>	Sheridan Vineyards	YAKIMA	А	TNC	Act	3/14/2007	1	1		Blue
<u>AB703</u>	Bonair Winery	YAKIMA	А	TNC	Act	3/14/2007	1	2	2	Blue
<u>AB704</u>	Paradisos DelSol	YAKIMA	А	TNC	Act	3/14/2007	1	2	2	Blue
<u>AB705</u>	Silver Lake Winery	YAKIMA	А	TNC	Act	3/14/2007	1	1		Blue
<u>FS062</u>	BOULDER CAVE/NACHES RD	ΥΑΚΙΜΑ	А	TNC	Act	1/1/1970	1	1		Blue
<u>FS078</u>	UPPER BUMPING LAKE CG/NACHES RD	YAKIMA	A	TNC	Act	1/1/1970	1	9		Blue
<u>FS116</u>	CLEAR LAKE CG SOUTH/NACHES RD	YAKIMA	А	TNC	Act	1/1/1970	1	1		Blu
<u>FS394</u>	INDIAN CREEK - NACHES RD	YAKIMA	А	TNC	Act	1/1/1970	1	195		Blue
<u>FS565</u>	LODGEPOLE/NACHES RD	YAKIMA	А	TNC	Act	1/1/1970	1	1		Blue
<u>FS828</u>	SAWMILL FLAT/NACHES RD	YAKIMA	А	TNC	Act	1/1/1970	1	1		Blue
<u>FS935</u>	WHITE PASS WORK CENTER/NACHES RD	YAKIMA	А	TNC	Act	1/1/1970	1	23	14	Blue
<u>SP300</u>	FORT SIMCOE STATE PARK	YAKIMA	А	TNC	Act	1/1/1970	1	7	4	Blue
<u>SP990</u>	YAKIMA SPORTSMANS STATE PARK	YAKIMA	A	TNC	Act	1/1/1970	2	61	4	Blue
<u>07029</u>	YAKIMA TRAINING CENTER - YRS	YAKIMA	А	NTNC	Act	3/25/1999	2	4		Green
<u>08356</u>	BRIDGEVIEW HOMESITES WATER ASSN	YAKIMA	А	Comm	Act	1/1/1970	1	21	80	Green
<u>15515</u>	COUNTRY SQUIRE MOBILE MANOR	YAKIMA	А	Comm	Act	1/1/1970	2	61	131	Green
<u>20788</u>	NAGLER ESTATES WATER USERS ASSN	YAKIMA	А	Comm	Act	12/1/1983	2	19	54	Green
<u>23280</u>	YAK CO - GALA ESTATES WATER SYSTEM	YAKIMA	А	Comm	Act	7/1/1978	1	35	113	Green
<u>30530</u>	PLAYLAND PARK	YAKIMA	А	Comm	Act	1/1/1970	3	26	65	Green
<u>31314</u>	SUNDOWN M RANCH	YAKIMA	А	NTNC	Act	1/1/1985	3	7	8	Blue
<u>33365</u>	HILLVIEW WATER ASSN	YAKIMA	А	Comm	Act	1/1/1970	1	30	95	Green
<u>33515</u>	HIGH VALLEY MOBILE HOME COURT	YAKIMA	А	Comm	Act	1/1/1970	2	56	142	Green
<u>51151</u>	NEW HORIZONS	YAKIMA	А	Comm	Act	9/1/1988	1	11	40	Green

ID Number	WS Name	<u>County</u>	Group	Type	<u>Status</u>	WS Effective	<u># Active</u> Sources	Connections	Population	<u>Permit</u> Color*
<u>65815</u>	POMONA ARTESIAN IRRIGATION COMPANY	YAKIMA	А	Comm	Act	1/1/1970	1	60	150	Green
<u>65820</u>	POMONA VIEW MOBILE PARK	YAKIMA	А	Comm	Act	1/1/1970	2	165	470	Green
<u>77398</u>	SELAH UNITED METHODIST CHURCH	YAKIMA	А	NTNC	Act	7/1/1978	1	1		Blue
<u>77400</u>	SELAH, CITY OF	YAKIMA	А	Comm	Act	1/1/1970	6	2,410	6,625	Yellow
<u>77410</u>	SELANDIA MANOR WATER ASSN	YAKIMA	А	Comm	Act	1/1/1970	1	45	130	Green
<u>79280</u>	SELAH HILLS MOBILE ESTATES	YAKIMA	А	Comm	Act	1/1/1970	2	103	300	Green
<u>99104</u>	YAKIMA TRAINING CENTER - POMONA	YAKIMA	А	NTNC	Act	1/1/1979	3	148		Green
<u>AB071</u>	Harrison Well #2	YAKIMA	А	NTNC	Act	5/11/2005	1	11		Blue
<u>HD670</u>	SELAH CR NB REST AREA	YAKIMA	А	TNC	Act	1/1/1970	1	1		Blue
HD671	SELAH CR SB REST AREA	YAKIMA	А	TNC	Act	1/1/1970	1	1		Blue
<u>00604</u>	BADGER CANYON WATER ASSN	BENTON	А	Comm	Act	9/22/1989	1	14	41	Green
<u>03303</u>	SUMMIT VIEW WATER SYSTEM	BENTON	А	Comm	Act	4/17/1994	1	36	59	Green
<u>03404</u>	GOOSE GAP WATER ASSOCIATION	BENTON	А	Comm	Act	11/20/2002	1	9	30	Green
<u>03699</u>	DESERT FOOD MART	BENTON	А	TNC	Act	8/10/1994	1	1		Green
<u>04424</u>	CHATEAU STE MICHELLE - VINEYARD 8	BENTON	А	TNC	Act	1/1/1981	1	4	4	Blue
<u>05797</u>	ELM GROVE RV PARK	BENTON	А	TNC	Act	8/1/1979	2	126	3	Blue
<u>05800</u>	BENTON CITY WATER	BENTON	А	Comm	Act	1/1/1970	4	735	2,175	Yellow
<u>05801</u>	CANYON VILLAGE WATER SYSTEM INC	BENTON	А	Comm	Act	2/1/1981	3	80	290	Yellow
<u>06091</u>	RED MOUNTAIN WATER ASSOCIATION	BENTON	А	Comm	Act	1/1/1981	3	85	200	Green
<u>06372</u>	Annas Mini Mart	BENTON	А	TNC	Act	12/29/1997	1	1		Green
<u>07093</u>	LIGO WATER SYSTEM	BENTON	А	NTNC	Act	5/10/1999	1	4		Blue
<u>07776</u>	Chinook Wines	BENTON	А	TNC	Act	5/19/2000	1	2		Green
<u>07903</u>	HORN RAPIDS PARK WATER SYSTEM	BENTON	А	TNC	Act	9/5/2000	1	22		Green
<u>10724</u>	HARRISON-KIONA WATER SYSTEM	BENTON	А	Comm	Act	4/1/1979	3	221	520	Green
<u>16589</u>	KIONA WEST HEIGHTS WATER ASSN	BENTON	А	Comm	Act	8/1/1981	1	31	75	Green
<u>17720</u>	NORTH PROSSER MARKET	BENTON	А	TNC	Act	1/1/1970	1	6	15	Blue
<u>19069</u>	OASIS WATER CORPORATION	BENTON	А	Comm	Act	3/1/1980	4	159	332	Red
<u>22617</u>	BADGER MOUNTAIN IRRIGATION DISTRICT	BENTON	А	Comm	Act	1/1/1970	2	655	1,710	Green
<u>33366</u>	HILLVIEW MOBILE HOME COURT	BENTON	А	Comm	Act	1/1/1970	3	58	114	Green
<u>41140</u>	MOUNT ADAMS VISTA WATER SYSTEM	BENTON	А	Comm	Act	9/1/1986	1	13	34	Green
<u>41574</u>	RICHLAND ORV PARK	BENTON	А	TNC	Act	2/1/1988	1	45		Blue

ID Number -	WS Name	County	Group	<u>Type</u>	<u>Status</u>	WS Effective	<u># Active</u> Sources	Connections	Population	<u>Permit</u> Color*
<u>41947</u>	ENERGY, DEPT OF/400 AREA	BENTON	А	NTNC	Act	5/1/1988	3	19		Blue
<u>42175</u>	KIONA VILLAGE COURT	BENTON	А	Comm	Act	1/1/1970	3	51	108	Green
<u>53220</u>	KID - LID 501	BENTON	А	Comm	Act	2/1/1979	5	116	307	Green
<u>56344</u>	SOUTHGATE WATER COMPANY	BENTON	А	Comm	Act	10/1/1989	2	52	130	
<u>56851</u>	MT VIEW TRACTS	BENTON	А	Comm	Act	1/1/1970	1	16	31	Green
<u>69750</u>	PROSSER, CITY OF	BENTON	А	Comm	Act	1/1/1970	6	1,903	5,000	Green
<u>70770</u>	RAINBOW COURT	BENTON	А	Comm	Act	1/1/1970	2	28	120	Green
<u>72250</u>	RICHLAND, CITY OF	BENTON	А	Comm	Act	1/1/1970	10	15,847	43,520	Green
<u>74800</u>	ROZA HEIGHTS WATER ASSN	BENTON	А	Comm	Act	1/1/1970	1	52	100	Green
<u>85630</u>	SUNRISE ACRES	BENTON	А	Comm	Act	1/1/1970	1	41	100	Green
<u>89400</u>	TRI-CITY ESTATES WATER DISTRICT 45	BENTON	А	Comm	Act	1/1/1970	2	104	300	Green
<u>93195</u>	WSU IAREC - PROSSER	BENTON	А	NTNC	Act	1/1/1970	3	15	1	Blue
<u>94900</u>	WEST RICHLAND, CITY OF	BENTON	А	Comm	Act	1/1/1970	9	3,792	11,200	Green
<u>96535</u>	WHITSTRAN ELEMENTARY SCHOOL	BENTON	А	NTNC	Act	1/1/1970	1	2		Blue
<u>96550</u>	WHITSTRAN HEIGHTS WATER ASSOCIATION	BENTON	А	Comm	Act	1/1/1970	2	24	65	Green
<u>96570</u>	MC CORKLES MARKET	BENTON	А	TNC	Act	1/1/1970	1	2	6	Blue
<u>98673</u>	WYCKOFF FARMS	BENTON	А	NTNC	Act	1/1/1970	1	25	99	Blue
<u>AA373</u>	BC WATER CO	BENTON	А	Comm	Act	7/18/2003	3	62	155	Green
<u>AB564</u>	Col Solare Winery	BENTON	А	TNC	Act	12/28/2006	1	1		Blue

Yakima River Basin Water Resources Advisory Committee

C/O

Yakima Basin Water Resources Agency 2301 Fruitvale Blvd. Yakima, Washington 98902 Phone: 509.574.2650 YBWRA@co.yakima.wa.us

October 27, 2006

Dear

The Watershed Management Plan: Yakima River Basin, January 2003, was put together by the Yakima Basin Planning Unit with major local input. This plan and many related documents are available on our website. The address is <u>www.co.yakima/YBWRA.</u> A new Water Resources Advisory Committee (WRAC) is being formed to guide development of a Detailed Implementation Plan (DIP) for the Watershed Management Plan.

The Department of Health's database identified you as an owner of a Group A Water System; therefore, the Yakima River Basin WRAC requests your participation in the development of this implementation plan. If you participate, your involvement could include: providing information, reviewing draft work plans and documents relevant to you, and participating in some meetings.

The WRAC and its subcommittees expect to begin meeting later this year and continue meeting through most of next year with willing participants. This schedule correlates with the grant contract schedule.

If you are interested in participating or would like more information, please contact Jim Milton at 509-574-2650 or jim.milton@co.yakima.wa.us. Your response is requested by December 15, 2006.

Sincerely,

Jim Milton, Director Yakima Basin Water Resources Agency

YBWRA Group A Letter 102706

Subject	Priority	Task #	Actions	Implementing Agencies, Committee or Program	Estimated Resources (2)
Management of Surface Water			<i>Objective 3.1: Support design and construction of storage projects by providing seed funding, securing political support, seeking additional funding and processing permits in a timely manner</i>		
Resources (Chapter 3)	*	3.1A	Seek authorization and funding from state to match federal funds for storage study	Ecology, YBWRA, USBR, YBSA	Low-Medium
Goals: Improve reliability for irrigation use: >add 375K af >70% of proratable entitlements Provide for growth in municipal, rural domestic & industrial demands: >add 80K af Improve instream flows	* * *	3.1B 3.1C 3.1D.1 3.1D.2 3.1E 3.1F 3.1G 3.1H	Seek authorization and funding from Congress to conduct feasibility studies, prepare environmental review, obtain permits (including ESA Section 7 consultation) and design and construct recommended storage project(s), consistent with recommended surface water strategy, Alternative I-1 Provide seed funding Complete studies: Yakima Basin Storage Study Pine Hollow Reservoir Study Continue aquifer storage & recovery project Review existing flow management regime, identify opportunities to enhance instream flows for fish and implement where possible Identify potential stream segments for setting instream flows (areas not regulated by USBR) Assist in identifying areas to enhance flows and support instream	USBR, Ecology, YBWRA, YBSA COUNTIES, IDs, Ecology USBR, Ecology AID, Ecology CITY of Yakima USBR, Ecology, YBWRA Ecology DFW	High \$416 million – 2.73 billion High
>meet target flows at Parker >maintain flows above 300 cfs >eliminate flip-flop Maintain economic prosperity by	*	3.2A 3.2B 3.2C	flow enhancement efforts Objective 3.2: Support water efficiency projects Work with USBR to implement water use efficiency projects, including establishing agreements, design and construction Continue working with irrigation districts to implement water use efficiency projects through agreements, funding and other actions Work with landowners to implement BMPs and projects that	USBR-YRBWEP (CAG) USBR, IDs, CD, CITY	\$359 million High High
providing adequate water for all uses	·	3.2C	improve irrigation and cropland management Seek funding for research efforts	WSU	

Subject	Priority	Task #	Actions	Implementing Agencies, Committee or Program	Estimated Resources
		3.3A 3.3B 3.3C	<i>Objective 3.3: Support water reuse projects</i> Assist with funding water reuse projects, as appropriate Periodically review reuse opportunities during utility plan updates Encourage reuse opportunities for development	Ecology CITIES Private developers	High High Low
Chapter 3 (cont)	*	3.4A 3.4B	Objective 3.4: Support water-rights transfers Process water right transfer/change applications in a timely manner Explore source substitution	Ecology, WCB, USBR (WTWG),	Low Low - Medium
		3.5A 3.5B	Objective 3.5 Support a communication / public education program addressing surface water management Design and implement public education program to support surface water actions above Participate in interagency coordination forum	CITY, CNTY, ID WSU, DFW	

			Yakima Watershed Plan Implementation Action	S	
Subject	Priority	Task #	Actions	Implementing Agencies ⁽¹⁾	Estimated Resources
			Objective 4.1: Define specific ground water management actions consistent with overall objectives of watershed plan. Address elements such as water-use efficiency, transfers, expanded service by public water systems within urban growth areas to replace exempt well use, etc.		
	* 4.1A	Track progress of USGS Study and provide input to its application and associated policy decisions	CA , CITY, CNTY, ID, Ecology	Low	
Management of	*	4.1B	Design and establish improved system for monitoring and managing aquifer water levels over the long term	Ecology, IDs CITIES, CNTY	High
Ground Water Resources (Chapter 4)	*	4.1C	Participate in the development of any programs pertaining to the use and management of ground water rights in the Yakima Basin, consistent w/ Watershed Plan, Alternative II-2 (Selective Restrictions on New Ground Water Development)	Ecology, CITY, CNTY , ID, Landowners	Medium
		4.1D	Expand service by public water systems within urban growth areas to replace exempt well use		
		4.1E	Support water rights transfers (see 3.4a)		
			<i>Objective 4.2: Design and implement public education program addressing ground water management to support actions above</i>		

Table 8-4 (WMP Table 8-2 updated) Yakima Watershed Plan Implementation Actions								
Subject	Priority	Task #	Actions	Implementing Agencies ⁽¹⁾	Estimated Resources			
	*	4.2A	Develop a public education program about ground water management	CITY, CNTY , ID, Ecology/CA	Medium			

Subject	Priority	Task	Actions	Implementing Agencies (1)	Estimated Resources				
		5.1A 5.1B 5.1C	<i>Objective 5.1: Prevent/Mitigate Forest Impacts</i> Improve Forest Road/Trail Management Improve Timber Harvest Management Other Watershed Actions	USFS, DNR, Landowners USFS, DNR, Landowners USFS, DNR, Landowners	High High High				
	*	*	*	*	*	5.2A	Objective 5.2: Prevent/Mitigate Agriculture Impacts Improve Irrigation Management	CD, WSU, ID, USDA, Landowners	High
Surface Water	*	5.2B	Improve Cropland Management	CD, WSU, ID, USDA, Landowners	Low				
Quality Strategy					5.2C	Reduce Impacts of Agricultural Chemicals	CD, Ecology, ID, USDA, Landowners	High	
(Chapter 5)	*	5.2D	Address Livestock Impacts (CAFOs)	CD, Ecology, USDA, WDOA, ,Landowners	Medium				
		5.2E	Control Other Agricultural Impacts	CNTY, ID, CD, WDOA, USDA, USGS	Medium				
		5.3A 5.3B	Objective 5.3: Prevent/Mitigate Stormwater Impacts on Water Quality Plan/Implement Municipal Stormwater Runoff Controls Plan/Implement Industrial Stormwater Runoff Controls	CNTY, CITY, Ecology CNTY, CITY, Ecology, IND	Medium Low				

Subject	Priority	Task	Actions	Implementing Agencies (1)	Estimated Resources
		5.4A	Objective 5.4: Prevent/Mitigate Resource Extraction Limits Control Impacts of Gravel Mining	Ecology, IND, DFW, Landowners	High
		5.5A	Objective 5.5: Prevent/mitigate recreation impacts Improve Recreational Use Management	USFS, DNR	High
		5.6A 5.6B	Objective 5.6: Support/Maintain Point Source Pollution Control Programs Upgrade Wastewater Facilities Accommodate Service Area Growth	CITY, IND, Ecology CITY, IND, Ecology	High High
	*	5.7A	Objective 5.7: Improve Interagency Coordination Improve Interagency Coordination	All agencies involved	Low
Surface Water Quality (cont)	*	5.8A 5.8B 5.8C 5.8D	Objective 5.8: Improve Understanding of Watershed Problems and Solutions Improve Cause-Effect Understanding Improve Problem/Solution Definition Expand Monitoring Activities Develop public education program about surface water quality	CD, USBR, Ecology, DFW, USGS, USFS, DNR CD, USBR, Ecology, DFW, USGS, USFS, DNR CITY, Ecology, USGS, CD, DFW, USFS, DNR	High Medium Medium
		5.9A 5.9B	Objective 5.9: Ensure Water Quality Standards Reflect Natural Regional Conditions Refine Water Temperature Criteria Define Background Turbidity Levels Objective 5.10: Minimize Water Resource Impacts on Water Quality	Ecology, USFS, USGS, CD Ecology, ID CD, USGS	Medium Medium

Estimated Resources Subject **Priority** Task Actions Implementing Agencies (1) (2) Improve Surface Water Resources Project Operations ID, Landowners 5.10A High 5.10B Assess Groundwater Impacts on Surface Water USBR, USGS, ECOLOGY High **Objective 6.1: Improve Public Understanding and Awareness of** Drinking Water Issues Provide outlets for ground water protection information * 6.1A CHD, WSU, CD Medium * 6.1B Develop a mass media campaign for ground water protection CHD, WSU, CD Medium Develop ground water protection program for schools Medium * 6.1C CHD, WSU, CD Management of * 6.1D Conduct periodic public opinion surveys related to ground water CHD, WSU, CD Medium **Ground Water** protection efforts Quality (Chapter 6) **Objective 6.2:** Assess Susceptibility of Ground Water Supplies to Contamination * Conduct level I risk assessment CHD, CPD, Ecology, DOH, 6.2A Low Local water purveyors * 6.2B Conduct level II risk assessment CHD, CPD, Ecology, DOH, Medium to High Local water purveyors * 6.2C Evaluate existing data management system and improve if CHD Low necessarv * 6.2D Produce regional maps showing results of risk assessment CHD, CPD, Local water Low purveyors **Objective 6.3: Improve Ability To Detect And Monitor Impacts** To Groundwater Supplies Evaluate the availability and usefulness of existing ground water 6.3A CHD, DOH, Ecology, USGS Low quality monitoring data Establish/facilitate short-term monitoring approach to determine CHD, Local water purveyors, 6.3B High baseline conditions of ground water supplies DOH, Ecology, USGS Establish or facilitate long-term monitoring approach to detect CHD, Local water purveyors, 6.3C Medium DOH, Ecology, USGS impacted ground water supplies

Subject	Priority	Task	Actions	Implementing Agencies ⁽¹⁾	Estimated Resources
		6.3D	Establish or facilitate long-term monitoring approach to evaluate the performance of implemented management strategies	CHD, Local water purveyors, DOH	Medium
		6.3E	Analyze data collected during monitoring programs	Ecology, USGS CHD, DOH, Ecology, USGS	Low
Ground Water Quality Chapter 6 (cont)			Objective 6.4: Improve Local Wellhead Protection Programs		
0 (cont)		6.4A	Enforce Wellhead Protection Program requirements for all "Group A" Public Water Systems	DOH, Local water purveyors	Low to Medium
		6.4B	Facilitate use of a computer model for delineating select "Group A" Public Water Systems wellhead protection areas	DOH, Local water purveyors, USGS	High
		6.4C	Encourage "Group B" Public Water Systems to voluntarily establish a Wellhead Protection Program	CHD, Local water purveyors, WSU, DOH	Medium
			<i>Objective 6.5: Minimize Impact Of Land Use Activities On Groundwater Supplies By Implementing Technical Management Strategies</i>		
		6.5A	Identify land use activities and contaminants to be addressed with technical management strategies	CHD, CD, Ecology, WDOA, NRCS	Low
		6.5B	Select and implement technical management strategies	CHD, CD, Ecology, WDOA, NRCS	High
			<i>Objective 6.6: Clean Up Sources of Ground water</i> <i>Contamination</i>		
		6.6A	Evaluate the need for greater involvement as a stakeholder in clean up actions at Ecology regulated facilities and sites	CHD, Ecology, Local water purveyors	Low
		6.6B	Evaluate the need for independent clean up actions	CHD, Ecology, WDOA, USGS	High

Subject	Priority	Task	Actions	Implementing Agencies (1)	Estimated Resources
	*	7.1A 7.1B	<i>Objective 7.1: Protect Existing High Quality Habitats</i> Road/Trail Impact Management Watershed Headwaters Protection and Projects	USFS, DNR, PTC USFS, DNR, PTC, CNTY	Medium Medium
	*	7.2A 7.2B	Objective 7.2: Protect And Enhance Anadromous Fish Migration Corridors Flow Related Actions Water Quality Actions	USBR, Ecology, DFW, SOAC Ecology, CD, ID, Landowners	High High
	*	7.2C 7.2D	Passage Barrier Improvements Regulate Land Uses	USBR, Landowners, ID, DFW CNTY, CITY, Ecology, NRCS, USFS, DNR	High Medium
Fish Habitat Enhancement (Chapter 7)			Objective 7.3: Enhance Downstream Reaches and Connect Associated Floodplains in Tributary Mainstem Reaches		
(*	7.3A	Improve In-Stream Flow Management	USBR, SOAC, Ecology	High
	*	7.3B 7.3C	Improve Off-Channel Connectivity Water Quality Enhancement	DOT, DFW, CNTY, CD, Landowners Ecology, EPA, CD, ID, Landowners, USGS, USFS, DNR	Medium High
	*	7.3D	Riparian Area Improvement	Landowners, USFS, DNR, CD, DFW	Medium
	*	7.3E	In-Channel Complexity Actions	DFW, CD, CNTY	High
	*	7.3F	Other Improvements	DFW, Landowners, ID	High
			<i>Objective 7.4: Prioritize Enhancement of Degraded Aquatic Habitats That are Still Functional</i>		

Subject	Priority	Task	Actions	Implementing Agencies ⁽¹⁾	Estimated Resources
	*	7.4A	Improve In-Stream Flow Management	USBR, SOAC	High
	*	7.4B	Improve Off-Channel Connectivity	DOT, CNTY, Landowners	High
	*	7.4C	Water Quality Enhancement	Ecology, CD, ID, Landowners	High
	*	7.4D	Riparian Area Improvement	Landowners, USFS, DNR, CD, DFW	High
	*	7.4E	In-Channel Complexity Actions	DFW, CD, CNTY	High
	*	7.4F	Other Improvements	DFW, Landowners, ID	High
	*	7.5A	Objective 7.5: Protect Existing Habitat Conditions From Further Degradation Regulate Land Use	CNTY, CITY, Ecology,	Medium
	*	7.5B 7.5C	Evaluate/Regulate Water Use Impacts Focus on Non-Point Pollution	NRCS, USFS, DNR Ecology, USBR CA, DFW, Ecology, USFS, DNR, CD, CC, CNTY	High Medium
Fish Habitat Enhancement		7.6A 7.6B	<i>Objective 7.6: Improve Watershed-Wide Information Base</i> Habitat Assessment Monitor Aquatic Habitats	DFW, USBR, SOAC, CC, CD, ID, USFS, DNR, USGS, Ecology DFW, USBR, SOAC, CC, CD, ID, USFS, DNR, USGS, Ecology	Medium Medium
(Chapter 7) (cont.)		7.7A	Objective 7.7: Focus On Habitat Condition To Measure The Effectiveness Of Habitat Enhancement Actions Focus on Habitat Condition	DFW, Ecology, USFS, DNR, CD, CC	Medium

Subject	Priority	Task	Actions	Implementing Agencies ⁽¹⁾	Estimated Resources
			<i>Objective 7.8: Ensure Water Quality and Habitat Standards</i> <i>Reflect Natural Regional Conditions</i>		
		7.8A	Improve Information and Criteria	Ecology, DFW, USFS, DNR, USBR, USGS, CD	Medium

⁽¹⁾ Implementing Agencies is defined as all agencies identified with some management responsibility for a recommended action, and includes: (CA) Coordinating Agency, (CC) Conservation Commissions, (CD) Conservation Districts, (CHD) County Health Department, (CNTY) Counties, (CPD) County Planning Department, CITY (Cities), DFW (WA Department for Fish & Wildlife), (DNR) WA Department of Natural Resources, (DOH) WA Department of Health, (DOT) WA Department of Transportation, (Ecology) WA Department of Ecology, (EPA) US Environmental Protection Agency, (IND) Industry, (ID) Irrigation Districts, (Landowners) Individual Landowners, Local water purveyors, (NRCS) Natural Resource Conservation Service, (PTC) Private Timber Companies, (SOAC) Systems Operations Advisory Committee, (USBR) US Bureau of Reclamation, (USDA) US Department of Agriculture, (USFS) US Forest Service, (USGS) US Geological Survey, (WD) Water Districts, (WDOA) WA Department of Agriculture, (WSU) Washington State University

⁽²⁾ Estimated Resources: In general, Low – less than \$100,000, Medium – between \$100,000 and \$750,000, High – greater than \$750,000

	Organizations With	Table 8-1* Primary Implementation Responsibilities
Implementing	organizations with	r mary implementation responsionates
Organization	Subject	Actions
	Lead Responsibilities	
		• Intergovernmental Coordination and Communications
		Pursue Additional Funding
		Monitor Plan Implementation
Coordination		 Information Clearinghouse
Agency		 Support Specific Strategies
		 Identify Issues/Barriers to be Addressed
		 Targeted Public Outreach
		 Prepare Annual Progress Report
		 Coordinate Watershed Plan Updates
		Administrative Support
	Lead Responsibilities	
		Plan Adoption
		 Establish Coordination Agency and Water Resources Advisory Committee
		 Update land use regulations within jurisdictional area to protect habitat, improve off-channel connectivity, and improve management of riparian areas consistent with Habitat Strategy
		 Co-lead with Cities to support service expansion by public water systems within urban growth areas to replace exempt well use
		 Develop policies or regulations restricting installation of new individual household wells within urban growth nodes or other areas of rural residential concentration
Counties		 Manage stormwater in unincorporated areas consistent with surface water quality strategy
		 Facilitate County Workshop(s) to develop more detailed habitat enhancement strategies at the county or subbasin let
	Other Responsibilities	14.0.18 W.F
	Management of Surface Water Resources	 Support design and construction of storage projects by providing seed funding, securing political support, seeking additional funding and processing permits in a timely manner
	Management of Ground Water	 Track progress of USGS Study and provide input to its application and associated policy decisions
	Resources	 Work with other agencies to design and establish improved system for monitoring and managing aquifer water levels over the long term
		 Provide input to Ecology in establishing formal program for issuance of new ground water rights in Yakima Basin, consistent with Watershed Plan, Alternative II-2 (Selective Restrictions on New Ground Water Development)

a	organizations with	Primary Implementation Responsibilities
Implementing Organization	Subject	Actions
		 Support process to define specific ground water management actions consistent with overall objectives of watershed plan. Address elements such as water-use efficiency, transfers, expanded service by public water systems within urban growth areas to replace exempt well use, etc.
Counties (cont.)		 Support the design and implementation of public education program to support actions above
	Surface Water Quality Strategy	 Support the design and implementation of public education program to reduce non-point source pollution
		• Identify projects and seek funding from water quality actions
	8	 Participate in Interagency Coordination Forum
	Management of Ground Water Quality	See lead responsibilities
	Fish Habitat	 See lead responsibilities
	Enhancement	 Identify projects and seek funding for habitat actions
â	Lead Responsibilities	
		 Define specific ground water management actions consistent with overall objectives of watershed plan. Address elements such as water-use efficiency, transfers, expanded service by public water systems within urban growth areas to replace exempt well use, etc.
		Manage wellhead protection areas
		 Cities periodically review reuse opportunities during utility plan updates projects
		 Manage stormwater in incorporated areas consistent with surface water quality strategy
Cities		 Update land use regulations to improve off-channel connectivity, and improve management of riparian areas consistent with Habitat Strategy
	Other Responsibilities	
	Management of Surface Water Resources	 See lead responsibilities above
	Management of Ground Water Resources	 Work with other water utilities to track progress of USGS Study and provide input to its application and associated policy decisions
		 Work with other water utilities to design and establish improves system for monitoring and managing aquifer water levels over the long term

Implementing Organization	Subject	Actions
		 Provide input to Ecology in establishing formal program for issuance of new ground water rights in Yakima Basin, consistent with Watershed Plan, Alternative II-2 (Selective Restrictions on New Ground Water Development)
Cities (cont.)		 Support the design and implementation of public education program to support actions above
(county		 Other – See lead responsibilities above
	Surface Water Quality Strategy	Participate in interagency coordination
	Fish Habitat Enhancement	See lead responsibilities above
	Lead Responsibilities	
		 Process water right transfer/change applications in a timely manner (in cooperation with county water conservancy boards)
		 Track progress of USGS Study and provide input to its application and associated policy decisions. Support local governments in tracking this process
		 Work with local water users and affected groups to establish formal program for issuance of new ground water rights in Yakima Basin, consistent with Watershed Plan, Alternative II-2 (Selective Restrictions on New Ground Water
		Development) Develop and implement TMDLs for water quality parameters
		 Refine water quality criteria for temperature
		 Seek funding for a study to better define background turbidity levels
Ecology		 Administer other permitting processes and programs consistent with water quality and habitat strategies
		 Work with responsible parties to clean up sources of groundwater contamination
	Other Responsibilities	B
	Management of Surface Water Resources	 Support design and construction of storage projects by providing seed funding, providing technical assistance and support, seeking additional state and federal funding and processing state permits in a timely manner Assist with funding water reuse projects, as appropriate Other - See lead responsibilities above
	Management of Ground Water Resources	 Work with local water purveyors to design and establish improved system for monitoring and managing aquifer water levels over the long term
		 Work with local water purveyors to design and implement public education program addressing ground water management to support actions above

Table 8-1 (cont.)* Organizations With Primary Implementation Responsibilities

Implementing Organization	Subject	Actions
Ecology (cont.)	Management of Ground Water Resources	 Other – See lead responsibilities above
	Surface Water Quality Strategy	 Improve Cause-Effect Understanding Seek funding to expand monitoring activities
	Management of Groundwater Quality Fish Habitat Enhancement	 Participate in activities that improve ability to detect and monitor impacts to ground water supplies Seek funding for program to minimize impacts of land use activities on ground water supplies by implementing technical management strategies Other - See lead responsibilities above Purchase or lease water from willing sellers to enhance flows Identify potential stream segments for setting instream flows (areas not regulated by USBR) Monitor and evaluate USBR system operations on habitat and water quality
	Lead Responsibilities	water quanty
		 Work with USBR to implement water use efficiency projects, including establish agreements, and design and construction
		 Identify projects and seek funding for habitat and water quality enhancement actions
	Other Responsibilities	
5.	Management of Surface Water Resources	 Support design and construction of storage projects by providing seed funding, securing political support, seeking additional state and federal funding
32		 Other – See lead responsibilities above
Irrigation	Management of Ground Water	 Track progress of USGS Study and provide input to its application and associated policy decisions
Districts	Resources	 Work with other water purveyors to establish improved system for monitoring and managing aquifer water levels over the long term
		 Work with Ecology in establishing formal program for issuance of new ground water rights in Yakima Basin, consistent with Watershed Plan, Alternative II-2 (Selective Restrictions on New Ground Water Development)
		 Support design and implementation of public education program addressing ground water management to support actions above
	Surface Water Quality Strategy	 Work with individual landowners to improve irrigation and crop land management
2	FALTLAS -	Other - See lead responsibilities above
	Fish Habitat Enhancement	 See lead responsibilities above

Table	8-1 (cont.)*	
Organizations With Primary	Implementation	Responsibilities

Implementing Organization	Subject	Actions
	Lead Responsibilities	
		 Work with landowners to implement BMPs and projects that improve irrigation and cropland management, and reduce livestock impacts consistent with water quality and habitat strategies
	Other Responsibilities	
Conservation Districts	Surface Water Quality Strategy	 Participate in interagency coordination forum Identify and support efforts to improve cause-effect understanding
		 Identify projects and seek funding for water quality enhancement actions
		 Support efforts to expand monitoring activities
		Other - See lead responsibilities above Summer local ground water protection advantion programs
	Management of Ground Water Quality	 Support local ground water protection education programs
	Fish Habitat	 See lead responsibilities above
	Enhancement	 Identify projects and seek funding for habitat enhancement actions
	Lead Responsibilities	
	-	 Develop detailed county ground water quality management strategies
	Other Responsibilities	
County Health	Management of Ground Water Quality	 Improve public understanding and awareness of drinking water issues
Districts		• Assess susceptibility of ground water supplies to contamination
		 Improve ability to detect and monitor impacts to ground water supplies
		 Encourage Group B systems to voluntarily establish a Wellhead Protection Program
		 Minimize impact of land use strategies on ground water supplie by implanting technical management strategies
		 Evaluate the need for greater involvement of stakeholders in cleanup actions at Ecology regulated facilities and sites
	Other Responsibilities	
	Management of Ground Water Quality	• Assess susceptibility of ground water supplies to contamination
Local Water Purveyors	Ground Water Quality	 Improve ability to detect and monitor impacts to ground water supplies
10		Improve local Wellhead Protection Programs
		 Evaluate the need for greater involvement of stakeholders in cleanup actions at Ecology regulated facilities and sites

Implementing Organization	Subject	Actions
	Lead Responsibilities	
US Bureau of Reclamation		 Seek authorization and funding from Congress to conduct feasibility studies, prepare environmental review, obtain permits (including ESA Section 7 consultation) and design and construct recommended storage project(s), consistent with recommended surface water strategy, Alternative I-1. Review existing flow management regime, identify opportunities to enhance instream flows for fish and implement where possible Continue working with irrigation districts to implement water use efficiency projects through agreements, funding and other actions
	Other Responsibilities	
	Management of Surface Water Resources	Other - See lead responsibilities above
	Surface Water Quality Strategy	 Participate in interagency coordination forum Identify and support efforts to improve cause-effect understanding Support efforts to expand monitoring activities
	Fish Habitat Enhancement	See lead responsibilities above
	Lead Responsibilities	
	5	 Monitor aquatic habitat conditions
Washington Department of Fish and		 Improve watershed-wide information base by developing and updating data management tools (e.g. SHIAPP and EDT)
		 Consider surface water quality and habitat strategies in administer permitting processes and programs. Identify projects and seek funding for habitat enhancement actions
Wildlife	Other Responsibilities	actions
	Surface Water Quality Strategy	Participate in interagency coordination forum
	Fish Habitat Enhancement	 Assist in identifying areas to enhance flows and support instream flow enhancement efforts Support efforts to improve habitat conditions See lead responsibilities above

Table 8-1 (cont.)* Organizations With Primary Implementation Responsibilities

("Note: Not comprehensive, see Table 8-2.)

	Organizations With	Table 8-1 (cont.)* Primary Implementation Responsibilities
Implementing Organization	Subject	Actions
	Lead Responsibilities	NA
Washington State	Other Responsibilities	
	Management of Ground Water Quality	 Improve public understanding and awareness Work with local and state agencies to assess susceptibility of ground water supplies to contamination on a regional basis Minimize impact of land use activities on ground water supplies by implementing technical management strategies
University	Surface Water Quality Strategy	 Seek funding for research efforts and work with landowners to implement BMPs and projects that improve irrigation and cropland management, and reduce livestock impacts consistent with water quality and habitat strategies Participate in interagency coordination forum Improve cause-effect understanding Improve problem/solution definition
	Lead Responsibilities	NA
Washington	Other Responsibilities	
Department of Health	Management of Ground Water Quality	 Support counties and cities in developing detailed ground water quality management strategies, focused on public awareness and susceptibility assessment
	Lead Responsibilities	NA
	Other Responsibilities	
Washington Department of Natural Resources	Surface Water Quality Strategy	 Prevent and mitigate forest impacts through existing programs and authorities Prevent and mitigate recreation impacts through existing programs and authorities Participate in interagency coordination forum, as appropriate Support efforts to secure funding for increased monitoring activities
	Lead Responsibilities	NA
Washington	Other Responsibilities	
Department of Agriculture	Surface Water Quality Strategy	 Seek funding for research efforts and work with landowners through existing programs. Participate in interagency coordination forum as appropriate
County Water Conservancy	Lead Responsibilities	 Process water right change/transfer applications in a timely manner (in cooperation with Ecology)
Boards	Other Responsibilities	NA

(*Note: Not comprehensive, see Table 8.2)

Inchoate Water Rights Relationship to Instream Flows

The Water Resources Advisory Committee (WRAC) for the Yakima Basin is in the process of developing a Detailed Implementation Plan (DIP) for the 2003 Watershed Plan. This plan is a roadmap aimed at enhancing communication and coordination of watershed management activities throughout the Yakima River Basin.

One element in the DIP, required by state law, is to assess the use of inchoate water rights regarding their relationship to instream flows. The law states:

RCW 90.82.048 Implementation plan — Timelines and milestones.

(1) The timelines and interim milestones in a detailed implementation plan required by RCW <u>90.82.043</u> must address the planned future use of existing water rights for municipal water supply purposes, as defined in RCW <u>90.03.015</u>, that are inchoate, including how these rights will be used to meet the projected future needs identified in the watershed plan, and how the use of these rights will be addressed when implementing instream flow strategies identified in the watershed plan.

Groundwater Moratorium

An informal moratorium on the issuance of groundwater rights is in effect in the Yakima Basin because Ecology is being challenged on ground water management. The basis of this challenge was the question of the continuity or the inter-relationship between ground waters and surface waters and the potential impact on instream flows. A major Yakima Basin groundwater study lead by the US Geological Survey is underway. A three party agreement was entered into between Ecology, Reclamation and the Yakama Nation to conduct this study. Subsequently, the Tri County Water Resources Agency entered into an agreement with Ecology to be a participant in the study.

Watershed Plan – Ground-Water Management Recommendation

The Watershed Plan recognized the potential conflict between future surface water and groundwater development and recommended that new groundwater development be limited to selected uses (Alternative II-2). These selected uses would most likely be for, but not limited to, municipal, industrial, and domestic purposes (WMP, p. 4-7). However, the Plan recognized that this alternative alone could not meet the objectives of future water supply and economic prosperity. Therefore, this recommendation was made with the understanding that future domestic water supply would be provided through additional surface water supply.

Conjunctive Management

The Plan's proposal is to provide for future municipal water supply. Its recommendation to do this indirectly, through new storage supply, incorporated the concept of conjunctive water management. Conjunctive water management is the management of groundwater and surface water as a single resource. This approach assumes that future municipal groundwater would likely be drawn from waters in continuity with surface waters. New surface water storage would be used to mitigate for the impact to surface water from future groundwater withdrawals and insure surface water availability for instream flow purposes.

Ground-Water Policy Development

Completion of the Ground Water study is due in 2008. Following completion there will be the need for review and policy development. At that time the Watershed Plan will be 5 years old and due for review and update.

Additional Considerations

The Yakima Basin has been in the process of adjudicating surface water rights for the last thirty years. This has been conducted at great expense to the state and all parties involved. The Department of Ecology estimates that thirty million dollars have been spent on this adjudication. This process has yielded no new water, only the prioritization of rights. Some water users were unable to support claims and found they have no water rights.

Groundwater Adjudication

Some discussion has centered on the need for future groundwater adjudication. The potential also exists for a future challenge to the pumping of inchoate water rights as being junior to and further diminishing water supply to senior surface water right holders and to instream flows.

Watershed Plan Recommendation

The recommendation for surface water management was for major new supply and storage. The U.S. Bureau of Reclamation with WDOE is currently conducting the Yakima Basin Storage Study and an environmental review, which are evaluating alternatives to provide for irrigation water supply for drought year reliability, future municipal and industrial water supply and water for instream flow enhancement. Increasing available water supply through additional storage has the potential for addressing future municipal water needs without requiring groundwater adjudication. The cities of the Yakima basin are particularly encouraged to support the concept of additional storage for future municipal water supply and the Yakima Basin Storage Study through membership in the WRAC. This effort is critical to future municipal water supply, economic development and the enhancement/restoration of the basin's natural resources.