

April 2006 Version – 4/27/06
WRIA 6 (Island County) 3-Year Implementation Matrix

This three-year work plan was developed by the WRIA 6 Salmon Technical Advisory Group (TAG) and lead entity staff as a planning tool for WRIA 6 partners (Shared Strategy and the Puget Sound Salmon Recovery Council). It summarizes the priorities and funding needs for the first three years of our ten-year work plan.

Goals and Objectives

Learning more about salmon use of WRIA 6 habitats, setting measurable goals, establishing a robust protection strategy, and working with the community to find solutions that work for fish and people are the key 10-year goals of the 2005 Watershed Resource Inventory Area (WRIA) 6 Multi-Species Salmon Recovery Plan (SRP). WRIA 6 provides critical rearing and migratory function to all twenty-two Chinook populations in Puget Sound and early science suggests the ten Whidbey Basin populations use WRIA 6 marine shorelines extensively, particularly during early life stages when they are most vulnerable. WRIA 6 habitats support the abundance, productivity, spatial structure and diversity of the Puget Sound Chinook evolutionarily significant unit. Initial habitat and marine process analysis suggests that portions of WRIA 6 still provide a high degree of function. These areas are top priority for stewardship and voluntary protection actions, and already receive protection thru various regulatory programs. While protection is the primary early focus, it is also understood that some restoration will also likely be necessary to reach recovery targets. Project sponsors have identified and are ready to proceed with restoration feasibility assessments and enhancement activities as a part of this 3-year implementation plan.

There is still much to learn. The 2005 SRP hypothesizes that those areas closest to the major river deltas (the east side of Whidbey and Camano Islands) are of highest value in providing early juvenile rearing habitats. We call these areas Geographic Area 1. However, preliminary results from 2005 research on the west side of Whidbey show that juvenile salmon use some of these habitats extensively as well. This area is currently Geographic Area 3, the lowest geographic priority in the 2005 SRP. Research and monitoring directed at fish use, timing, and marine processes are still critical to developing a robust salmon recovery strategy and plan.

Involving the community and gaining participation of private citizens is important to the success of the WRIA 6 salmon recovery plan. Outreach to WRIA 6 communities is necessary to develop salmon recovery solutions that will support multiple interests. A critical component of the 10 year plan is to build relationships, foster an understanding of the key role WRIA 6 plays in regional salmon recovery, and implement projects that demonstrate positive outcomes for fish and people.

While the WRIA 6 SRP is a multi-species plan, this list only reflects projects that have a Chinook and/or forage fish focus. Chinook are recognized as the most prevalent ESA listed species using WRIA 6 habitats. Forage fish habitat, particularly sand lance and herring spawning habitat, is included in this top priority category because of the importance of forage fish as components of the Island County marine ecosystem and the food web that supports salmon. A separate list has been compiled for projects that have a multi-species or a non-ESA salmonid species focus.

The 3-year work program includes both capital and non-capital activities that are of high priority in the near-term. The list is dominated numerically by non-capital projects, that are essential for developing quantifiable goals, establishing partnerships, and executing a protection program. The capital projects include protecting ecosystem processes that support salmon, protecting nearshore habitats that salmon utilize, and ensuring opportunities for future enhancement/restoration in areas where key habitats have been altered. Protection activities focus on voluntary actions that complement the shoreline regulations adopted by Island County in 2001 and critical areas regulations being updated this year. The salmon recovery plan will inform these updates.

The non-capital projects include protection planning, nearshore science, education and outreach activities, and basic organizational capacity. Protection of existing function is a combination of regulatory and voluntary efforts. Assessment and planning is necessary to determine where there are gaps in protection and how to advance them in a manner supported by the community. One area of focus is to develop public land habitat conservation plans to ensure our public land management supports recovery objectives. Research needs in the 3-year timeframe are targeted to support the development of

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quantifiable goals such that progress can be measured and habitat protection ensured. Education for high priority shoreline reaches will focus on learning more about community willingness to participate in protection and enhancement projects, targeted outreach to shoreline landowners in Geographic Area 1, and community outreach about nearshore functions and how local actions support salmon recovery efforts.

The organizational capacity section of this matrix reflects the need for funding for groups that have minimal staff capacity to participate in WRIA 6 salmon recovery activities, and groups that have historically chosen not to participate in the WRIA 6 process due to funding limitations. These groups provide critical scientific, technical, or policy support necessary for plan implementation. Identifying and securing basic capacity funding is a critical first step if local salmon recovery activities are going to deliver protection results in this timeframe.

Activities in the 3-year work program are screened based on the hypotheses described in the plan. This means that the east side of Camano and Whidbey Island is the highest priority with decreasing priority as one moves west. As noted above, this hypothesis is already being called into question by recent research findings. As these findings are validated or negated, priorities will shift accordingly. The plan provides hypotheses about the key nearshore habitats and processes. It is unlikely that these will change significantly in the three-year timeframe, though it is likely that spatial specificity and clarity about what is truly necessary to protect habitat and process function will improve. Research in this timeframe may also suggest key activities necessary to support individual populations. Many activities in this matrix are beginning steps – protection planning, review of public land management plans, and outreach to landowners. These activities are critical for strategic implementation of a wide range of protection activities.

Activities in this work program support the goals, objectives, and actions in the SRP. This work program provides a first estimate of the overall funding necessary to move salmon recovery activities forward in WRIA 6 under the SRP. This list reflects the projects and programs that support regional Chinook recovery as they have been identified by the organizations that are currently actively involved in salmon recovery in WRIA 6. The majority of these projects target protection and research efforts in the highest priority geographic area. The total cost of this three-year plan is approximately \$7.8 million and reflects projects that potential project sponsors are ready to implement if funding is secured. The costs listed for many of the projects were provided by project sponsors and in many cases are rough estimates of project costs. It's important to note that approximately half of the funding request in this list is for capital projects; in particular \$2.1 million is included for high value nearshore acquisitions/easements in Geographic Area 1. Nearshore habitat acquisition is an expensive, but sometimes necessary activity in our rapidly developing shoreline communities in cases where there is a willing seller and ecosystem functions are not protected by other means.

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Capacity:

Goal: Secure basic level funding for local/regional organizations to participate in WRIA 6 salmon recovery work. These organizations are key to implementing high priority activities. Develop a scientifically rigorous and politically supported protection strategy with measurable goals.

Strategy: Work with regional organization to secure funds for identified organizations that have expertise in basic salmon recovery support (protection, restoration, nearshore science, outreach, and/or monitoring). The funding request reflects the needs of the Snohomish and Whidbey Conservation Districts, Whidbey Camano Land Trust, Maxwellton Salmon Adventure, Skagit River System Cooperative, and the Stillaguamish Tribe to participate.

Results: Increased efforts around targeted salmon and nearshore focused stewardship outreach, landowner technical assistance, project review, data synthesis and distribution, public outreach, quantifiable goals, key research needs, protection strategy, and adaptive management activities as needed.

Magnitude/Sequence: This is an initial list of the capacity funding needs for salmon recovery in WRIA 6. The groups that are requesting funding at this time are actively participating to some extent in salmon recovery activities, but are facing the need to cut back on their participation due to funding constraints. Given the small size and rural character of WRIA 6, capacity funding will continue to be a key issue, if the plan is to be implemented.

Funding Request: \$720,000 over 3-year period

Habitat Projects

At this time the WRIA 6 habitat goal is still quite general: "Over the long term, achieve a net increase in salmon habitat through protection, enhancement, and restoration of naturally-functioning ecosystems that support self-sustaining salmon populations and the species that depend on salmon". If further habitat losses are to be avoided, habitat protection must be pursued with new determination given the challenges related to continued population growth. To get started on this effort, protection planning, outreach to public and private landowners, and acquisitions of high-quality habitat not protected through other means are planned for Geographic Area 1. In addition, where we have significant scientific knowledge and local commitment to restoration of key nearshore environments, we should pursue these projects. The enhancement and restoration actions listed in this section are focused on activities that have significant regional momentum, are ongoing site specific projects, or are high profile feasibility studies.

Habitat Projects – Protection Planning, Outreach, and Acquisitions

Goal: Identify protection needs and begin to implement voluntary protection strategies, which complement regulatory protections, for all publicly held nearshore and for private nearshore in Geographic Area 1.

Strategy: Evaluation of Geographic Area 1 nearshore protection needs in four phases: Northeast Whidbey, Strawberry Point, North Camano, East Camano. Synthesize the results of these four assessments to create a program for all of Geographic Area 1. Evaluation of public agency nearshore protection plans to ensure management objectives include protection of Chinook, sand lance, and herring habitats. Initiate strategic implementation of stewardship outreach and other protection actions in Geographic Area 1, including acquisitions where critical nearshore ecosystem functions are threatened.

Results: Establish assurances that management of and actions on publicly owned nearshore protects known Chinook, sand lance, and herring habitats. Establish methods for nearshore protection evaluation. Protect high-quality nearshore habitat in WRIA 6's top priority geographic area through stewardship and acquisition.

Magnitude/Sequence: Geographic Area 1 covers the 26 Whidbey and Camano basins that drain to Skagit Bay and Port Susan (approx. 40 sq. miles) and the nearshore areas along the shoreline of these basins. This shoreline is approximately 50 of Island County's 212 miles of shoreline. These nearshore areas are some of the widest in Island County, have the highest concentration of sand lance spawning sites, are recognized by WDFW as herring spawning habitat, and are generally within 5 miles of one of the Whidbey Basin natal rivers. This area is hypothesized to be critical for juvenile Chinook from the Skagit, Snohomish, and Stillaguamish rivers. These activities will provide templates for evaluation of the rest of the WRIA 6 nearshore.

Funding Request: approximately \$3 million over 3-year period, including \$2.1 million request for targeted acquisitions

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Habitat Projects – Regional Protection, Enhancement, and Restoration Projects

Goal: Protect and enhance WRIA 6 marine food webs for all salmon that migrate through WRIA 6 marine waters.

Strategy: The actions listed in this section will target nearshore habitats that are important for Chinook, sand lance, and/or herring. All of these actions coincide with ongoing regional efforts, such as ghost nets removal and creosote debris removal in key nearshore habitats. The spill response activities will ensure the update of regional spill response plans incorporates salmon recovery priorities, a process that is starting in 2006. WRIA 6 is included in three of the WA Dept. of Ecology Geographic Response Plans. Significant work has occurred on Camano over the last 3 years in Spartina control, including control of meadows in Triangle Cove and English Boom. Continued efforts are key to maintain gains achieved and eradicate the remaining infestations.

Results: Removal of ghost nets from salmon migration corridors. Removal of creosote debris from sand lance spawning beaches and herring spawning areas. Ensure spill response efforts protect salmon/forage fish habitat. Continued Spartina control in juvenile salmon rearing habitats.

Magnitude/Sequence: Marine debris, spills, and invasive species can dramatically impact nearshore ecosystem functions for salmon. All of these actions coincide with ongoing regional efforts.

Funding Request: approximately \$375,000 over 3-year period

Habitat Projects – Restoration/Enhancement Feasibility and Implementation

Goal: Over the long-term, enhance and restore Chinook, sand lance, and herring habitat functions where there is supporting scientific knowledge and local commitments.

Strategy: Continue ongoing habitat projects and perform feasibility analyses for sites that are used by Chinook, sand lance, and/or herring.

Results: Restoration of salmonid access to 200 acres of marsh at Crescent Harbor (north Saratoga Passage). Restoration of approximately 750 feet of sand and gravel beach at Cornet Bay, just west of active forage fish spawning area. Additional targeted restoration projects in Geographic Area 1 where landowner willingness is established. Evaluation of project feasibility for 11 sites nearshore sites in Skagit Bay.

Magnitude/Sequence: The actions in this list are initial steps towards a net increase in Chinook, sand lance, and herring habitats. They are also key in building positive examples of how restoration can occur in a manner the community supports.

Funding Request: approximately \$1.2 million over 3-year period

Science

Developing a clear understanding of the distribution of Chinook and the ecosystem functions provided to Chinook in the nearshore is the predominant focus of the activities in this section. In the ten-year time frame, the science goal is to develop tools that relate nearshore habitat conditions to Viable Salmon Population characteristics.

Fisheries Science – Quantifying Ecosystem Functions for Salmon Recovery

Goal: Initial quantification of the relationships between nearshore habitat functions and Chinook life histories based on data collected over the last five years.

Strategy: Pursue fisheries science collaboratively at sub-region scale, addressing the Whidbey Basin and the west side of Whidbey as distinct sections of WRIA 6. Continue marine fish distribution surveys, synthesize existing nearshore data sets, and develop targeted monitoring of nearshore functions. Initiate an evaluation of marine trophic interactions as an initial step in H-integration.

Results: Initial quantification of habitat goals and qualitative statement about likely VSP responses.

Magnitude/Sequence: The funding amounts listed with these projects address the funding necessary for research in WRIA 6. Local activities should be linked to actions throughout each sub-region to provide the best results. These activities are necessary steps towards quantifiable recovery goals.

Funding Request: approximately \$1.1 million over 3-year period

Water Quality

Goal: Local participation in the assessment and protection of Whidbey Basin marine water quality.

Strategy: Establish a local marine water quality monitoring program with a primary focus on water quality

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parameters that are related to fish health. Work collaboratively with neighboring watersheds and state agencies to evaluate Whidbey Basin water quality.

Results: Baseline marine water quality data, regional water quality collaboration.

Magnitude/Sequence: Marine water quality, particularly dissolved oxygen, is identified as an important issue for the Whidbey Basin. To date, marine water quality data collection by local and state agencies has focused predominantly on primary contact and shellfish parameters. Ambient water quality monitoring has been carried out at a relatively small number of sites in the Whidbey Basin on a rotating basis. This project is a first step towards establishing local participation in assessing and protecting Whidbey Basin water quality for salmonids.

Funding Request: \$100,000 over 3-year period

Effectiveness Monitoring

Goal: Initiate a monitoring program to evaluate salmon recovery activities in WRIA 6.

Strategy: Ensure follow-up monitoring occurs after the Crescent Marsh project is completed and relate this information to the monitoring that was done prior to construction. Establish a programmatic monitoring program to evaluate ecosystem process and habitat trends.

Results: Data from this monitoring program will be used as a part of the WRIA 6 salmon recovery adaptive management program.

Magnitude/Sequence: These activities are the initial steps towards a robust adaptive management program.

Funding Request: \$120,000 over 3-year period

Education and Outreach

Goal: Provide targeted outreach to residents and visitors throughout WRIA 6 about the importance of nearshore habitats to Chinook, sand lance, and herring. Landowner stewardship programs will focus first on communities in Geographic Area 1. Develop WRIA 6 specific outreach materials, such as juvenile salmon usage of the nearshore.

Strategy: Complete a public opinion survey to engage general knowledge about local salmon recovery issues and level of landowner willingness to participate in voluntary protection, enhancement, and restoration activities. Use the results of this survey to educate WRIA 6 salmon recovery partners, direct targeted outreach, and involve the community. Develop and implement targeted outreach strategies using existing programs, and when necessary new materials and programs such as the outreach program for Deception Pass State Park.

Results: Increase community awareness of local salmon recovery issues, specifically the habitat needs of Chinook, sand lance, and herring; and links between upland and nearshore habitats. Direct landowner outreach to all communities/homeowners associations in Geographic Area 1.

Magnitude/Sequence: Up to this point, outreach and education efforts about Chinook, sand lance, and herring habitats has been fairly limited – with most efforts integrated into WSU extension activities such as Beach Watcher trainings. The activities identified here are meant to expand our local knowledge about the communities' knowledge and make use of this to target current and new programs.

Funding Request: approximately \$480,000 over 3-year period

SRP Goal Objective Action	Focus Species	capital/non-capital	Geo Area(s)	Activity	Primary Ecosystem Process	Primary Habitat	Project Name	Potential Sponsor (lead)	Estimated total cost 2007-09	cost notes	Funded	Need	status	2007		2008		2009		Likely end date	Funds needed after 2009
														Scope	Cost	Scope	Cost	Scope	Cost		
Local Salmon Recovery Capacity																					
4.2	Chinook, forage fish	NC	All	Protection	variety	variety	Basic Level/ Protection Activities - Stewardship outreach, Landowner technical assistance, Continued regulatory enforcement, Public Land management, Fundraising for acquisitions, Project review	WSU; Local, State, & Federal Agencies; Conservation Districts; Land Trusts; Local Organizations	\$258,750		\$0	\$258,750	ongoing	basic capacity funding for Conservation Districts & Whidbey Camano Land Trust	\$85,500	basic capacity funding for Conservation Districts & Whidbey Camano Land Trust	\$86,250	basic capacity funding for Conservation Districts & Whidbey Camano Land Trust	\$87,000	ongoing	?/yr
4.2	ESA species, forage fish	NC	All	Restoration	variety	variety	Basic Level/ Restoration Activities - Technical assistance, Liaison with landowners, Project review	Local, State, & Federal Agencies; Conservation Districts; Local Organizations; Fisheries Enhancement Groups; Tribes	\$204,000		\$0	\$204,000	ongoing	basic capacity funding for Marine Resources Committee, Maxwellton Salmon Adventure, Skagit Rive System Cooperative, & Stillaguamish Tribe	\$68,000	basic capacity funding for Marine Resources Committee, Maxwellton Salmon Adventure, Skagit Rive System Cooperative, & Stillaguamish Tribe	\$68,000	basic capacity funding for Marine Resources Committee, Maxwellton Salmon Adventure, Skagit Rive System Cooperative, & Stillaguamish Tribe	\$68,000	ongoing	?/yr
4.2	Chinook, forage fish	NC	All	Science	variety	variety	Basic Level/ Nearshore Science - Data synthesis, Informational outreach, Project review, Linking nearshore habitats to VSP parameters	Local, State, & Federal Agencies; Tribes	\$157,500		\$0	\$157,500	ongoing	basic capacity funding for Skagit River System Cooperative & WA Trout	\$52,500	basic capacity funding for Skagit River System Cooperative & WA Trout	\$52,500	basic capacity funding for Skagit River System Cooperative & WA Trout	\$52,500	ongoing	?/yr
4.2	Chinook, forage fish	NC	All	Education	variety	variety	Basic Level/ Education & Outreach - Public event displays, presentations, shoreline workshops, participation in local/regional groups to coordinate local/regional efforts	Local & State Agencies; Local Organizations; Conservation Districts; Fisheries Enhancement Groups	\$60,000		\$0	\$60,000	ongoing	basic capacity funding for education & outreach	\$20,000	basic capacity funding for education & outreach	\$20,000	basic capacity funding for education & outreach	\$20,000	ongoing	?/yr
4.2	Chinook, forage fish	NC	All	Monitoring	variety	variety	Basic Level/ Effectiveness Monitoring - Programmatic evaluation of projects/programs, Adaptive management	Local & State Agencies; Local Organizations; Tribes	\$40,000		\$0	\$40,000	scoped	basic capacity funding for monitoring	\$10,000	basic capacity funding for monitoring	\$15,000	basic capacity funding for monitoring	\$15,000	ongoing	?/yr
4.-	Chinook, forage fish	NC	All	Coordination	variety	variety	Salmon Lead Entity Coordination	ICPW	\$240,000	05-06 - WDFW LE & ICPW future - WDFW LE & IC Planning	\$240,000	\$0	ongoing	staffing (1 FTE) + 1-2 small contracts	\$80,000	staffing (1 FTE) + 1-2 small contracts	\$80,000	staffing (1 FTE) + 1-2 small contracts	\$80,000	ongoing	\$80,000/yr
Total Capacity									\$960,250		\$240,000	\$720,250									
Habitat Projects																					
Protection Planning, Outreach, & Acquisition																					
1.2.2	Chinook, forage fish	C	1	Protection	variety	variety	Geographic Area 1 Acquisitions & Easements (150-300 acres of nearshore habitat)	WCLT	\$2,100,000	06-SRFB & USFWS	\$0	\$2,100,000	concept	conservation easements / acquisitions in GA1	\$600,000	conservation easements / acquisitions in GA1	\$750,000	conservation easements / acquisitions in GA1	\$750,000	ongoing	\$750,000/yr
1.2.2 1.2.3	Chinook, forage fish	NC	1	Protection	sediment, hydrology	pe/marsh, s/g beach & bluffs	Strawberry Point Nearshore Protection Plan (10 miles of shoreline)	IC Planning, WCLT	\$200,000	06-LE \$2,500	\$0	\$200,000	concept	draft protection plan	\$100,000	finalize plan	\$100,000			2008	
1.2.2	Chinook, forage fish	C	1	Protection	sediment, hydrology	pe/marsh, s/g beach & bluffs	Strawberry Point Nearshore Outreach/Easement Project	IC Planning, WCLT	\$150,000		\$0	\$150,000	concept					conservation outreach & easements	\$150,000	2010	\$150,000
1.2.2 1.2.3	Chinook, forage fish	NC	1	Protection	sediment, hydrology	pe/marsh, s/g beach & bluffs	North Camano Nearshore Protection Plan (10 miles of shoreline)	IC Planning, WCLT	\$150,000		\$0	\$150,000	concept			draft protection plan	\$75,000	finalize plan	\$75,000	2009	
1.2.2 1.2.3	Chinook, forage fish	NC	1	Protection	sediment, hydrology	pe/marsh, s/g beach & bluffs	Port Susan Nearshore Protection Plan (20 miles of shoreline)	IC Planning, WCLT	\$150,000		\$0	\$150,000	concept			draft protection plan	\$75,000	finalize plan	\$75,000	2009	
1.2.2 1.2.3	Chinook, forage fish	NC	1	Protection	sediment, hydrology	pe/marsh, s/g beach & bluffs	Synthesis of Geographic Area 1 Nearshore Protection Plans	IC Planning, WCLT, TAG	\$25,000		\$0	\$25,000	concept					synthesis	\$25,000	2009	
1.2.3	Chinook, forage fish	NC	All	Protection	variety	variety	WRIA 6 Island County Owned Nearshore Protection Project	IC Planning, IC Parks	\$140,000	06-LE \$2,500	\$0	\$140,000	concept	ID of properties, draft protection plan	\$35,000	finalize plan & evaluation	\$70,000	monitoring	\$35,000	ongoing	\$35,000/yr
1.2.3	Chinook, forage fish	NC	All	Protection	variety	variety	WRIA 6 State Owned Nearshore Protection Project	IC Planning, State Agencies	\$50,000		\$0	\$50,000	concept			review/evaluation of state ownership & discussion w/ agencies	\$50,000			2008	
1.2.3	Chinook, forage fish	NC	2 & 3	Protection	variety	variety	WRIA 6 Federally Owned Nearshore Protection Project	IC Planning, Navy	\$50,000		\$0	\$50,000	concept			review/evaluation of federal ownership & discussion w/ agencies	\$50,000			2008	
Regional Protection, Enhancement & Restoration Projects																					
1.2.2 1.2.3 1.3.3	Chinook, forage fish	C	All	Protection & Restoration	food web	photic zone & marine	Derelict Net Removal [Regional]	NW Straits, IC-MRC	\$30,000	06 - NW Straits	\$0	\$30,000	ongoing	ID & removal	\$10,000	ID & removal	\$10,000	ID & removal	\$10,000	2011	\$10,000/yr
1.2.2 1.2.3 1.3.3	Chinook, forage fish	C	All	Protection & Restoration	food web	beach, intertidal, subtidal	Creosote Log/ Piling Removal [Regional]	WA DNR, IC-MRC	\$180,000	06 - Ecology	\$0	\$180,000	ongoing	removal of creosote material from Camano sites	\$60,000	removal of creosote material from W. Whidbey sites	\$60,000	removal of creosote material from Saratoga Passage sites	\$60,000	2011	\$60,000/yr
1.3.3	Chinook, forage fish	NC	All	Protection	food web	variety	Island County Oil Spill Assessment Team	WSU Beach Watchers	\$30,000	06-WSU	\$0	\$30,000	concept	program kick-off	\$20,000	program support	\$5,000	program support	\$5,000	ongoing	\$5,000/yr
1.3.3	Chinook, forage fish	NC	All	Protection & Restoration	food web	variety	Marina Chemical Spill Preparedness	Marina, Others	\$50,000		\$0	\$50,000	concept	training/equipment	\$30,000	outreach/equipment	\$10,000	outreach/equipment	\$10,000	ongoing	\$10,000/yr
1.3.3	Chinook, forage fish	NC	All	Protection & Restoration	food web	variety	Emergency Spill Response	IC Sheriff	\$47,000		\$0	\$47,000	concept	scope/training	\$7,000	training/equipment	\$20,000	training/equipment	\$20,000	ongoing	\$10,000/yr
1.3.2	Chinook, forage fish	C	All	Protection & Restoration	food web	marsh/mudflat	Spartina Control	IC Weed Control, WDFW, WA Ag. Dept.	\$40,000		\$0	\$40,000	ongoing	monitoring & control	\$20,000	monitoring	\$10,000	monitoring	\$10,000	ongoing	\$10,000/yr

SRP Goal Objective Action	Focus Species	capital/non-capital	Geo Area(s)	Activity	Primary Ecosystem Process	Primary Habitat	Project Name	Potential Sponsor (lead)	Estimated total cost 2007-09	cost notes	Funded	Need	status	2007		2008		2009		Likely end date	Funds needed after 2009		
														Scope	Cost	Scope	Cost	Scope	Cost				
Restoration/Enhancement Feasibility & Implementation																							
1.2.3 1.3.1	Chinook, forage fish	NC	1	Protection Assessment	sediment	bluff/spit	Ala Spit Protection Assessment	IC Planning	\$94,000	06-07 - SRFB & IC	\$94,000	\$0	assessment	assessment	\$94,000					2007			
1.3.1	Chinook, forage fish	C	1	Restoration	sediment	bluff/spit	Ala Spit Restoration Project (contingent on recommendations from assessment)	IC Planning	\$300,000		\$0	\$300,000	concept				design, permit, construction	\$150,000	construction	\$150,000	2009		
1.2.2	Chinook, forage fish	C	1	Protection	sediment	bluff/spit	Ala Spit Environs Outreach/Easement Project	IC Planning	\$100,000		\$0	\$100,000	concept						conservation outreach & easements	\$100,000	2010	\$150,000	
1.2.2 1.3.1	Chinook, forage fish	NC	1	Protection & Restoration Assessment	tidal exchange & hydrology	pe	Skagit Bay Nearshore Assessment (10 pocket estuary sites)	SRSC	\$86,000	06-07 - SRFB & SRSC	\$86,000	\$0	assessment	assessment	\$86,000								
1.3.1	forage fish	C	1	Restoration	sediment	s/g beach	Cornet Bay Beach Restoration Project (~750 ft. of sand/gravel beach)	WA State Parks, IC-MRC, IC Planning	\$300,000		\$0	\$300,000	design	phase 1 - design, permit, construction	\$150,000	phase 2 - design, permit, construction	\$150,000				2008		
1.3.1	Chinook, forage fish	C	1	Restoration	variety	variety	Nearshore Restoration Projects - MRC	IC-MRC	\$472,000	07-NFWF application	\$222,000	\$250,000	scoped, application	scope, design, permit, construction	\$222,000	scope, design, permit, construction	\$100,000	scope, design, permit, construction	\$150,000	ongoing	\$150,000/yr		
1.3.1	Chinook, forage fish	C	2	Restoration	tidal exchange	marsh	Crescent Harbor - Marsh Restoration (~200 acres of salt marsh)	Navy	\$150,000		\$0	\$150,000	construction, design				\$150,000			2008			
4.3.4	Chinook, forage fish	NC	2	Restoration-Assessment	tidal exchange	marsh	West Deer Lagoon Feasibility (~300 acres of marsh)	WA Trout	\$150,000		\$0	\$150,000	scoped	feasibility-analysis	\$75,000	feasibility-analysis	\$75,000				2008		
Habitat Projects Non-Capital Need									\$1,072,000		\$180,000	\$892,000			\$372,000		\$455,000		\$245,000				
Habitat Projects Capital Need									\$3,822,000		\$222,000	\$3,600,000											
Total Habitat									\$5,044,000		\$402,000	\$4,642,000			\$1,509,000		\$1,910,000		\$1,625,000				
Salmon Recovery Science																							
Fisheries Science - Quantifying Ecosystem Functions for Salmon Recovery																							
2.1.1	Chinook	NC	1 & 2	Nearshore Science	habitat usage	variety	Nearshore/Marine Juvenile Salmonid Distribution - Whidbey Basin [Regional]	Skagit River System Cooperative Beach Watchers Stillaguamish Tribe NOAA Tulalip Tribe	\$450,000		\$0	\$450,000	ongoing	seining	\$150,000	seining	\$150,000	seining	\$150,000	?	?		
2.1.1	Chinook	NC	1 & 2	Nearshore Science	habitat usage	variety	Hydrodynamics (Drift Buoys) - Whidbey Basin [Regional]	Skagit River System Cooperative	\$100,000		\$0	\$100,000	scoped	field work, analysis	\$100,000						2007		
2.1.3	Chinook	NC	1 & 2	Nearshore Science	habitat usage	all	Nearshore Habitat and Fish Use Synthesis Whidbey Basin [Regional]	Skagit River System Cooperative	\$75,000		\$0	\$75,000	scoped	evaluation of data collected to date, shoreline analysis	\$75,000						2007	?	
2.3.2	Chinook, forage fish	NC	1 & 2	Nearshore Science	food web	variety	Trophic Interactions - Whidbey Basin [Regional]	Skagit River System Cooperative	\$20,000		\$0	\$20,000	concept						evaluation of work to date/ scope of work	\$20,000	?	?	
2.1.1	ESA species	NC	2 & 3	Nearshore Science	habitat usage	variety	Nearshore/Marine Juvenile Salmonid Distribution - Admiralty Inlet [Regional]	WA Trout?	\$300,000		\$0	\$300,000	ongoing	seining	\$100,000	seining	\$100,000	seining	\$100,000	?	?		
2.1.1	ESA species	NC	2 & 3	Nearshore Science	habitat usage	variety	Hydrodynamics (Drift Buoys) - Admiralty Inlet [Regional]	?	\$100,000		\$0	\$100,000	scoped			field work, analysis	\$100,000				2008		
2.1.3	Chinook	NC	2 & 3	Nearshore Science	habitat usage	all	Nearshore Habitat and Fish Use Synthesis Admiralty Inlet [Regional]	?	\$75,000		\$0	\$75,000	scoped			evaluation of data collected to date, shoreline analysis	\$75,000				2008	?	
2.3.2	Chinook, forage fish	NC	2 & 3	Nearshore Science	food web	variety	Trophic Interactions - Admiralty Inlet [Regional]	?	\$20,000		\$0	\$20,000	concept					evaluation of work to date/ scope of work	\$20,000	?	?		
Water Quality									\$1,140,000														
2.2.10	Chinook, forage fish	NC	All	WQ monitoring	food web	marine, nearshore	Nearshore-Marine water quality monitoring	IC-MRC	\$100,000		\$0	\$100,000	concept	equipment & monitoring	\$40,000	monitoring	\$30,000	monitoring	\$30,000	?	\$30,000/yr		
Effectiveness Monitoring																							
4.3	Chinook, forage fish	NC	All	monitoring	all	all	Salmon Recovery Ecosystem Functions - Monitoring	IC Planning	\$45,000		\$0	\$45,000	concept			develop program, data collection	\$30,000	data collection	\$15,000	ongoing	\$18,000/yr		
4.3.2	Chinook	NC	2	monitoring	food web	marsh	Crescent Harbor - Follow-up monitoring	Navy (Univ. Wash.)	\$75,000		\$0	\$75,000	concept					monitoring	\$75,000	2010	\$75,000		
Total									\$2,500,000		\$0	\$1,360,000											
Education & Outreach																							
Citizen Outreach																							
3.2.1 3.3.2 3.3.3	Chinook, forage fish	NC	All	citizen outreach	nearshore	variety	Community Events - salmon recovery participation/materials	LE grant & IC Planning	\$30,000	05-06 - WDFW LE & ICPW future - WDFW LE & ICPW ?	\$30,000	\$0	ongoing	materials, activities	\$10,000	materials, activities	\$10,000	materials, activities	\$10,000	ongoing	\$10,000/yr		
3.1.7	Chinook, forage fish	NC	All	citizen outreach	variety	variety	Community Public Opinion Survey - Views about protection & restoration actions	IC Planning, WSU?	\$20,000	initial survey '06? Later surveys a	\$0	\$20,000	scoped, grant application			follow-up survey to 2007 survey	\$20,000			follow-up every 2 yrs.	\$20,000/other yr		
1.2.2 3.1.6	Chinook, forage fish	NC	1 & 2	citizen outreach	variety	shoreline	Shore Stewards - Salmon Focus	WSU, MRC	\$120,000	NW Straits grant, other grants	\$60,000	\$60,000	ongoing	1 FTE	\$40,000	1 FTE	\$40,000	1 FTE	\$40,000	ongoing	\$40,000/yr		
3.2.1 3.3.2	Chinook, forage fish	NC	1 (All)	citizen outreach	variety	shoreline	Deception Pass SP Public Outreach Campaign (salmon/nearshore)	State Parks, IC Planning	\$200,000	06 WWRP application	\$0	\$200,000	scoped, grant application	design, outreach materials	\$100,000	mateials, activities	\$100,000				2009		
3.1.3	Chinook, forage fish	NC	All	citizen outreach	sediment, hydrology	shoreline	Shoreline Landowner Workshops & site visits (nearshore education tours)	Shore Stewards, PSAT	\$22,500		\$0	\$22,500	scoped	materials, workshops, tours	\$7,500	materials, workshops, tours	\$7,500	materials, workshops, tours	\$7,500	ongoing	\$7,500/yr		
1.2.2 3.1.6	Chinook, forage fish	NC	All	citizen outreach	upland-nearshore connectivity	upper nearshore, streams, upland	Watershed Stewardship program - upland link with Shore Stewards program	IC Planning, Maxwellton Salmon Adventure	\$70,000		\$0	\$70,000	concept	program design, outreach materials	\$30,000	outeach materials, outreach activities	\$20,000	outeach materials, outreach activities	\$20,000	ongoing	\$20,000/yr		
Projects - Outreach Materials																							
3.2.1	Chinook	NC	All	outreach materials	variety	marine, nearshore	"Salmon Swim Amongst Us"	Orca Network	\$15,000		\$0	\$15,000	scoped	development & printing	\$7,000	reprint	\$4,000	reprint	\$4,000	2009			
3.1.6	Chinook, forage fish	NC	All	outreach materials	sediment	bluff, beaches	Feeder Bluff Brochure	IC Planning	\$5,000		\$0	\$5,000	scoped	design, print	\$3,000	print	\$1,000	print	\$1,000	2009			
Total Non-Capital Need									\$482,500		\$90,000	\$392,500			\$197,500		\$202,500		\$82,500				

SRP Goal Objective Action	Focus Species	capital/non-capital	Geo Area(s)	Activity	Primary Ecosystem Process	Primary Habitat	MSA Rank	NPP	Project Name	Potential Sponsor (lead)	Estimated total cost 2007-09	cost notes	Funded	Need	status	2007		2008		2009		Likely end date	Funds needed after 2009	
																Scope	Cost	Scope	Cost	Scope	Cost			
Local Salmon Recovery Capacity																								
4.-	multi-species	NC	All	Coordination	variety	marine	---	---	Marine Resources Committee Staff & Administration	WSU	\$118,000	NW Straits	\$118,000	\$0	ongoing	MRC grant year 7	\$38,000		\$40,000		\$40,000	ongoing	\$40,000/yr	
Total Capacity											\$118,000		\$118,000	\$0										
Habitat Projects																								
Protection Planning, Outreach, & Acquisition																								
1.2.4	Multi-species	NC	2	Protection	food web	variety	---	yes	Penn Cove Protection - Nonpoint	ICPW, NPS Ebey's Landing	\$43,000		\$0	\$43,000	concept	scope/design	\$3,000	implementation	\$20,000	implementation	\$20,000	ongoing	\$20,000/yr	
1.2.2	Coho, cutthroat	NC	2	Protection/Restoration	freshwater	stream/riparian	4	---	Maxwelton Watershed Assessment - Phase 2	MSA	\$120,000		\$0	\$120,000	concept			stream habitat surveys, watershed process surveys	\$60,000	assessment report	\$60,000	2009		
1.2.2	Coho, cutthroat	C	2	Protection	freshwater	stream/riparian	6	---	Maxwelton Watershed Conservation Easements	MSA	\$200,000		\$0	\$200,000	concept				\$100,000		\$100,000	ongoing	\$100,000/yr	
Habitat/Ecosystem Protection & Restoration																								
1.2.2	multi-species	C	All	Protection & Restoration	food web	photic zone & marine	---	---	Derelict Gear Removal (Crab Pots) [Regional]	NW Straits, IC-MRC	\$90,000	06 - NW Straits	\$0	\$90,000	ongoing	ID & removal (Skagit Bay)	\$30,000	ID & removal (N. Saratoga Passage)	\$30,000	ID & removal (S. Saratoga Passage)	\$30,000	2011	\$30,000/yr	
1.2.3	multi-species	NC	1 & 2	Protection & Restoration	food web	freshwater, nearshore	---	---	Camano Water Quality Protection & Enhancement (CCWF)	ICPW	\$150,000	CCWF '08 application	\$0	\$150,000	concept			source id, education	\$75,000	source id, education	\$75,000	2009		
1.3.3	multi-species	NC	2	Protection & Restoration	food web	freshwater, nearshore	---	---	Holmes Harbor Water Quality Protection & Enhancement (CCWF)	ICPW	\$150,000	CCWF '08 application	\$0	\$150,000	application			source id, education	\$75,000	source id, education	\$75,000	2009		
1.3.3	multi-species	NC	2	Protection & Restoration	food web	freshwater, nearshore	---	---	SW Whidbey Water Quality Protection & Enhancement (CCWF)	ICPW	\$150,000	CCWF '08 application	\$0	\$150,000	application			source id, education	\$75,000	source id, education	\$75,000	2009		
Restoration/Enhancement Feasibility & Implementation																								
1.3.1	Multi-species	NC	2	Restoration	variety	variety	1C	---	South Whidbey Restoration Outreach Program	MSA	\$29,000		\$0	\$29,000	scope	outreach/materials	\$7,500	outreach/materials	\$7,500	outreach/materials + intern	\$14,000	ongoing		
1.3.1	Multi-species	C	2	Restoration	variety	variety	1D	---	South Whidbey Nearshore Restoration	MSA	\$350,000		\$0	\$350,000	scope			scope, design, permit, construction	\$175,000	scope, design, permit, construction	\$175,000	2009		
1.3.1	Multi-species	NC	3	Process Assessment	tidal exchange	marsh	---	---	Crockett Lake Historical Reconstruction & Feasibility	NPS Ebey's Landing	\$150,000	06-07 - NPS Ebey's Landing	\$150,000	\$0	assessment	assessment	\$75,000	assessment	\$75,000			2008		
1.3.1	Coho, cutthroat	C	2	Restoration	watershed	riparian	1A&B	---	Maxwelton Riparian Restoration	MSA	\$100,000		\$0	\$100,000	ongoing	design, permit, planting	\$50,000	design, permit, planting	\$25,000	design, permit, planting	\$25,000	ongoing	\$25,000/yr	
1.3.1	Coho, cutthroat	C	2	Restoration	watershed	stream	1A	---	Maxwelton Culvert Replacements	MSA	\$225,000		\$0	\$225,000	scoped/design	design, permit, construction	\$75,000	design, permit, construction	\$75,000	design, permit, construction	\$75,000	ongoing	\$75,000/yr	
Habitat Projects Non-Capital Need											\$0		\$0											
Habitat Projects Capital Need											\$0		\$0											
Total Habitat											\$1,757,000		\$150,000	\$1,607,000				\$240,500		\$792,500		\$724,000		
Salmon Recovery Science																								
Fisheries Science - Quantifying Ecosystem Functions for Salmon Recovery																								
2.2.14	multi-species	NC	2	habitat survey	habitat quality	stream	---	yes	Stream Habitat Surveys	WICD/MSA/IC	\$60,000		\$0	\$60,000	scoped			surveys	\$30,000	surveys	\$30,000	?	?	
2.1.2	Coho	NC	2	watershed science	habitat usage	stream	2D	---	Salmonid monitoring - Maxwelton / South Whidbey	MSA	\$25,000		\$0	\$25,000	scoped			equipment & monitoring	\$15,000	monitoring	\$10,000	?	?	
Water Quality																								
3.2.11	multi-species	NC	All	WQ monitoring	food web	fresh surface water	---	---	Island County Water Quality Monitoring & Source Identification	Island County Planning	\$600,000	2006-2010 - IC	\$600,000	\$0	program developed	sampling at 24 baseline sites & source identification as needed	\$200,000	sampling at 24 baseline sites & source identification as needed	\$200,000	sampling at 24 baseline sites & source identification as needed	\$200,000	2011		
3.2.12	multi-species	NC	All	streamflow monitoring	hydrology	fresh surface water	---	---	Island County Streamflow monitoring	ICPW	\$55,000		\$0	\$55,000	ongoing	establish sites & monthly data collection	\$20,000	establish sites & monthly data collection	\$20,000	monthly data collection	\$15,000	?	\$15,000/yr	
2.2.11	Coho, cutthroat	NC	2	WQ monitoring	food web	fresh surface water	2B	---	Maxwelton supplemental water quality monitoring	MSA	\$80,000		\$0	\$80,000	ongoing	equipment & monitoring	\$30,000	monitoring	\$25,000	monitoring	\$25,000	?	\$25,000/yr	
3.2.11	Coho, cutthroat	NC	2	WQ monitoring	food web	fresh surface water	2E	---	Maxwelton Benthic - Index of biological integrity	MSA	\$20,000		\$0	\$20,000	concept			monitoring	\$20,000	monitoring	\$20,000	?		
Effectiveness Monitoring																								
4.3.2	Coho, cutthroat	NC	2	monitoring	freshwater	riparian	1A	---	Maxwelton riparian restoration monitoring	Maxwelton Salmon Advent	\$40,000		\$0	\$40,000	concept			monitoring	\$20,000	monitoring	\$20,000	?	\$20,000/yr	
Total											\$880,000		\$600,000	\$280,000										
Education & Outreach																								
Landowner Technical Assistance																								
1.2.2	multi-species	NC	1 & 2	landowner tech assistance	food web	marine riparian, upland	1F	yes	Native Plant Program	Maxwelton Salmon Adventure, South Whidbey Plant Salvage, ICPW	\$50,000		\$0	\$50,000	salvage ongoing	salvage equipment, infrastructure	\$10,000	outreach materials, equipment, planting materials	\$20,000	outreach materials, equipment, planting materials	\$20,000	ongoing	\$20,000/yr	
1.3.4	multi-species	NC	2	landowner tech assistance	hydrology	upland	---	---	Low Impact Development TA - Pilot (Langley)	Whidbey Cons. Dist, PSAT, Langley, Cons. Commission	\$0	06-pilot (Ecology grant)	\$0	\$0	designed, application									
1.2.4	multi-species	NC	All	landowner tech assistance	hydrology	upland	---	---	Low Impact Development TA - County Wide (including Backyard Conservation Program)	Whidbey & Snohomish Conservaiton Districts	\$480,000	possible CD special assessment	\$0	\$480,000	designed	outreach, tech. assistance, engineering	\$160,000	outreach, tech. assistance, engineering	\$160,000	outreach, tech. assistance, engineering	\$160,000	ongoing	\$160,000/yr	
1.2.4	multi-species	NC	All	landowner tech assistance	food web	upland	---	yes	Hazardous Ag. Chemicals TA - workshops	WICD?	\$9,000		\$0	\$9,000	concept	outreach materials, workshops	\$3,000	outreach materials, workshops	\$3,000	outreach materials, workshops	\$3,000	ongoing	\$3,000/yr	
1.2.4	multi-species	NC	All	landowner tech assistance	food web	variety	---	yes	On-Site Septic Education TA - workshops	IC Health / WSU Waste Wise	\$6,000	IC Health budget	\$6,000	\$0	ongoing	workshops	\$2,000	workshops	\$2,000	workshops	\$2,000	ongoing	\$2,000/yr	
1.2.4	multi-species	NC	All	landowner tech assistance	food web	upland	---	yes	Sound Gardening Clinics, Whale & Salmon Friendly Gardens (workshops)	WSU Master Gardeners, Orca Network	\$33,000		\$0	\$33,000	concept	program design, outreach materials, workshops	\$23,000	outreach materials, workshops	\$5,000	outreach materials, workshops	\$5,000	ongoing	\$5,000/yr	
Citizen Outreach																								
1.2.4	multi-species	NC	All	citizen outreach	food web	variety	---	yes	Clean & Simple Program - Non-toxic cleansers	WSU Waste Wise	\$30,000		\$0	\$30,000	designed	materials, outreach	\$10,000	materials, outreach	\$10,000	materials, outreach	\$10,000	ongoing	\$10,000/yr	
3.2.1	multi-species	NC	All	citizen outreach	food web	marine, nearshore	---	yes	Coast Guard Pollution Classes	Coast Guard?, ICPW	\$25,000		\$0	\$25,000	designed	pilot project	\$5,000	classes	\$10,000	classes	\$10,000	ongoing	\$10,000/yr	
3.2.1	multi-species	NC	All	citizen outreach	food web	marine, nearshore	---	yes	Boater Education	Marinas?, ICPW	\$25,000		\$0	\$25,000	scoped	pilot project	\$5,000	outreach materials	\$10,000	outreach materials	\$10,000	ongoing	\$10,000/yr	
3.2.1	multi-species	NC	All	citizen outreach	food web	shoreline	---	yes	Beach Dumping/Spill Education	Health, Emergency Services	\$12,000		\$0	\$12,000	concept	design	\$2,000	materials, outreach	\$5,000	materials, outreach	\$5,000	ongoing	\$5,000/yr	

SRP Goal Objective Action	Focus Species	capital/non-capital	Geo Area(s)	Activity	Primary Ecosystem Process	Primary Habitat	MSA Rank	NPP	Project Name	Potential Sponsor (lead)	Estimated total cost 2007-09	cost notes	Funded	Need	status	2007		2008		2009		Likely end date	Funds needed after 2009	
																Scope	Cost	Scope	Cost	Scope	Cost			
3.2.1	multi-species	NC	All	citizen outreach	variety	shoreline	---	---	Marine Ecosystems Signage - MRC	MRC, IC Parks, FOCIP, Ports	\$15,000	MRC '06-'07 grant	\$0	\$15,000	ongoing	salmon information	\$5,000	salmon information	\$5,000	salmon information	\$5,000	ongoing	\$5,000/yr	
1.2.2	multi-species	NC	All	citizen outreach	food web	upland	8	---	Sustainable Agriculture Initiative	Maxwelton Salmon Adventure	\$65,000		\$0	\$65,000	concept			design, outreach materials	\$32,500	outreach, forums	\$32,500	ongoing	\$15,000/yr	
3.1.5	multi-species	NC	All	citizen outreach	food web	upland	8	---	Sustainable Agriculture Initiative	Maxwelton Salmon Adventure	\$65,000		\$0	\$65,000	concept			design, outreach materials	\$32,500	outreach, forums	\$32,500	ongoing	\$15,000/yr	
School Programs																								
3.1.2	multi-species	NC	2	HS education	variety	variety	1B	---	Service Learning Program - South Whidbey (pilot)	MSA	\$120,000		\$0	\$120,000	designed	materials, staff	\$40,000	materials, staff	\$40,000	materials, staff	\$40,000	ongoing	\$40,000/yr	
3.1.2	multi-species	NC	All	HS education	variety	variety	1B	---	Service Learning Program - County Wide	MSA	\$36,250		\$0	\$36,250	concept					materials, staff, intern	\$36,250	ongoing	\$20,000/yr	
3.1.3	multi-species	NC	2	HS education	variety	variety	1E	---	GIS Curriculum - S. Whidbey HS	MSA	\$65,000		\$0	\$65,000	concept			\$20,000			\$45,000			
3.1.2	multi-species	NC	2	K-8 education	variety	upland	1C	---	Outdoor Classroom - South Whidbey	MSA, SSFETF	\$60,000		\$0	\$60,000	ongoing		\$20,000		\$20,000		\$20,000			
3.1.2	multi-species	NC	1 & 2	K-8 education	variety	upland	1C	---	Classroom Programs, Outdoor Classroom - Camano	MSA, SSFETF	\$30,000		\$0	\$30,000	concept				\$15,000		\$15,000			
Projects - Outreach Materials																								
3.2.1	multi-species	NC	All	outreach materials	variety	shoreline	---	---	Getting to the Waters Edge	MRC grant (NW Straits Commission)	\$0		\$0	\$0	developed								2006	
3.2.1	multi-species	NC	All	outreach materials	variety	marine, nearshore	---	---	Stewardship Areas Brochures	MRC grant (NW Straits Commission)	\$0		\$0	\$0	developed								2006	
3.2.1	Coho, cutthroat	NC	2	outreach materials	variety	upland, stream	1F	---	Maxwelton Website Completion	MSA	\$5,000		\$0	\$5,000	ongoing	updates	\$5,000						2007	
Total Non-Capital Need											\$1,016,250		\$6,000	\$1,010,250		Total 2007	\$280,000	Total 2008	\$337,500	Total 2009	\$398,750			