



DRAFT OVERVIEW SUMMARY
Appendix 1
StreamNet Project
Fiscal Year 2008 Work Plan Proposal

BPA Project No. 198810804

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Appendix 1

StreamNet FY 2008 and 2009 Summary of Budget Options

Top priority data types as determined by the Data Management Framework Subcommittee of CBFWA in FY 2008 and 2009 was for abundance indicators for the focal species in the Status of the Resource Report, and exploratory work to identify the availability of productivity data for the SOTR to be provided in future years. Given the staff erosion caused by FY-08 being the fifth year at level funding, it will not be possible to provide all the requested priority data at level funding. Appendix Table 1 summarizes the specific data development actions planned by the StreamNet partner agencies under three staffing scenarios: Option A - Staffing available at continued level funding, Option B - "Parity" Staffing with previous staffing levels restored, and Option C - Potential Additional Staffing. The Level Staffing scenario was used to develop the initial FY-08 SOW in Pisces.

Option A: Level Funding (\$2,261,033)

Under level funding and the resulting decreased staffing, WDFW will work only on lower Columbia subbasins and drop data work in the eastern subbasins, ODFW will work on a by-subbasin basis and cover only as much of the basin as is possible, IDFG will focus on Chinook salmon and steelhead data, while MFWP will be able to maintain existing staffing and data delivery for resident species. Level funding will therefore not provide all of the abundance data needed for all focal species or all subbasins in the SOTR.

Option B: Parity Funding (\$2,470,308)

Parity staffing would restore staff levels more like those available at the beginning of the last funding cycle, and would restore full geographic coverage of the states and would provided abundance indicator data for all subbasins for the traditional species in the StreamNet database. That means that abundance data would be developed primarily for anadromous species and resident species in Montana. The MSRT recommended funding level for FY-08 of \$2,500,000 would cover the needed parity staffing level in the project's partner agencies and also cover a portion of other staffing cutbacks and cuts in operating expenses. Additional funding above current level funding needed to maintain staffing parity, by state agency, is:

WDFW	\$ 64,000
ODFW	\$112,200
IDFG	<u>\$ 33,075</u>
total	\$209,275

Option C: Funding to support Status of the Resource Report (\$2,647,608)

The Potential Increase column represents additional work to expand development of abundance data to all focal species in the SOTR, plus other additional data work that could be performed. Addressing all focal species in the SOTR represents an increase in work to cover a variety of additional species, including lamprey, sturgeon and resident species designated as "focal species" in the Subbasin Plans. Additional funding for SOTR work above the Parity level to cover development of abundance indicator data for all focal species and pilot work to identify productivity data, where they are calculated, by agency, is:

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WDFW	\$ 39,000
ODFW	\$ 34,600
IDFG	<u>\$103,700</u>
total	\$177,300

The Potential Increase column also includes a partial list of work that could be accomplished in FY-08-09 if additional funding were available. The data types covered in this column relate to data prioritized by the DMFS, but it is recognized that other entities might desire other types of data or have other priorities. If other data types are requested, StreamNet would develop estimates of cost.

Appendix Table 1 is organized by priorities as established by the Data Management Framework Subcommittee as of July 17, 2007. The guidance provided by the DMFS priorities is:

1. Direct priority to DMFS and to support the SOTR Report. Try to obtain. If can't, identify support needed.
2. Develop plan to get in 2010, obtain if readily available or pilot in 08 if possible/reasonable
3. Low priority for SOTR. Obtain data if can, but not a priority. May get further guidance. Might be higher priority for some other data users.

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Appendix Table 1. Data development work proposed for FY-08, by type of data, at three funding level options..

Data Type	StreamNet Partners	Level Funded Staffing	“Parity” Staffing	Potential Additional Staffing (Incomplete list of what could be done)
Section 1: DMFS designated Priority 1				
Adult Abundance (redd counts, spawner counts, carcass counts, dam / weir counts, etc.)	IDFG	Chinook and steelhead, all Col. Subbasins in FY-08	Restore previous cuts in 08, 09 data for all CS and steelhead.	Develop abundance data for other focal species, est. \$103,700
	MFWP	Redd counts for bull trout		
	ODFW	Steelhead, listed salmonids and focal species, by subbasin ^a , beginning with John Day.	Develop data for the remaining Oregon subbasins. Will attempt for all focal species, if possible (\$112,200 for parity)	Develop abundance data for all other focal species. \$34,600
	WDFW	27 of the 28 focal species in the 10 lower Columbia subbasins ^b .	Provide adult abundance data for 19 of the 30 focal populations in 8 relevant eastern WA subbasins (\$64,000 total for parity)	Develop abundance data to all remaining focal species in Washington. Est. cost \$39,000
Hatchery Fraction	IDFG	Chinook and steelhead percentage of marked fish on spawning grounds		
	ODFW	Preliminary work to plan; pilot effort to get data beginning with John Day ^a steelhead then other focal species, as possible		Provide hatchery fraction for all Oregon subbasins (\$15,200)
	WDFW	No work planned on existing staffing		Provide stream-level hatchery fraction data, all focal populations w/ data (\$26,000)
Attribute data to populations (for the data types listed above, once population designations are	IDFG	Will attribute all data to populations		
	ODFW	Will be addressed according to priority of recovery populations ^a , beginning w/ John Day	Extend work to include all OR subbasins (\$112,200 total for parity)	

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established by CBFWA)	WDFW	Will attribute all data developed above ^b	Extend population attribution to data from eastern WA subbasins (parity \$64,000 tot.)	
	USFWS	Note-we need to find out if hatchery data will need to be attributed to populations also		
Hydrography	IDFG	Maintain 100K. 24K not yet needed.		
	MFWP	Maintain existing layers. NRIS is lead on 24K		
	ODFW	Maintain 100K. Continue work on mixed scale	Extend work to assure coverage of full Col. Basin	Convert remainder of state to MSH (\$20,300)
	WDFW	Maintain 100K and Mixed Scale		
Section 2: DMFS designated Priority 2				
Adult Abundance (hatchery returns)	IDFG	Chinook, sockeye and steelhead, all subbasins		
	ODFW	Steelhead, listed salmonids & focal species, by subbasin ^a , beginning in mid-Columbia.	All done under level staffing IF automatic data extraction restored with mainframe	
	WDFW	Anadromous focal populations in the 10 lower Columbia subbasins ^b .	Extend hatchery return data to the 8 relevant eastern WA subbasins (\$64,000 total)	
	USFWS	Returns to all national fish hatcheries in basin.		
Abundance (juvenile anadromous & all resident)	IDFG	Preparatory work. Will georeference stream survey sites (approx. 4,000)		
	MFWP	Survey data for resident species		
	ODFW	Sturgeon, bull trout, redband and westslope cutthroat, by subbasin ^a , begin in John Day	Extend work to all OR subbasins (\$112,200 total for parity)	

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	WDFW	No work planned		
Fish Distribution, generalized	IDFG	Maintain for bull trout, sturgeon, cutthroat, redband, steelhead, Chinook and sockeye		
	MFWP	Maintain and update for all resident species		
	ODFW	Maintain and update as new information is submitted. Convert Col. Basin events to Framework hydrography.		Convert non-Columbia events to the higher resolution Mixed Scale hydro layer (\$40,600)
	WDFW	Maintain across all subbasins, increase resident coverage to five priority species.		
Genetics ^c	MFWP	Develop genetics data as part of fish distribution		
Age comp.	IDFG	Chinook, sockeye and steelhead in all Columbia River subbasins		
	MFWP	Preliminary work to explore availability of data		
	ODFW	Preliminary work to plan; pilot effort to get data beginning with John Day ^a steelhead	Extend work on this data type to include all OR subbasins (\$112,200 total for parity)	
	WDFW	Age linked to adult abundance and hatchery returns for focal populations in 10 lower Col. Subbasins ^b	Extend age data type to 8 eastern WA subbasins (\$64,000 total for parity)	
	USFWS	Age data for returns to national fish hatcheries		

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Size & sex proportion on spawning grounds	IDFG	Chinook and steelhead		
	ODFW	Preliminary work to plan; pilot effort to get data beginning with John Day ^a steelhead		Expand to all Oregon subbasins (\$15,200)
	WDFW	No work planned with existing staffing		Develop data for all focal populations (\$13,000)
Harvest (derived)	IDFG	No work planned in FY-08		Provide harvest data (\$75,000 total for 1 FTE, 3+ data types)
	ODFW	Preliminary work to investigate availability of population level harvest estimates. Pilot effort beginning in John Day ^a		Develop harvest data, where calculated, for remaining subbasins (\$10,700)
	WDFW	No work planned with existing staffing		Develop harvest data, where calculated (\$6,500)
Upstream losses (derived)	IDFG	No work planned		
	ODFW	Preliminary work to investigate availability of estimates of upstream losses. Pilot effort beginning in John Day ^a		Develop upstream loss data, where calculated, for remaining subbasins (\$15,200)
	WDFW	No work planned with existing staffing		
Smolt Abundance	IDFG	No work planned in FY-08		Provide smolt abundance data (\$75,000 total for 1 FTE, 3+ data types)
	ODFW	Smolt trap and index estimates, where available. Pilot effort in FY-08; develop a plan, begin effort in John Day subbasin ^a		Expand to all Oregon subbasins where these data exist (\$30,500)

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	WDFW	No work planned with existing staffing		Provide for all focal populations where data exist (\$13,000)
Productivity (derived)	IDFG	Preliminary scoping		Cost est. under development
	ODFW	Investigate availability of derived estimates, pilot effort beginning in John Day		Compile derived productivity where calculated in remaining subbasins (\$15,200)
	WDFW	Preliminary scoping		Cost est. under development
Tribal data (work to obtain priority 1 data types from tribal programs)	IDFG	Work with tribes to capture data		
	MFWP	Prelim work to discuss interest in data sharing with CSKT		
	ODFW	Prelim work to contact tribes and discuss interest and capability in sharing data, emphasis on SOTR and recovery planning data		Assess data availability and calculate costs to obtain (\$4,500)
	WDFW	No work planned, but support idea of providing an FTE to UCUT to develop		No work planned, but support idea of providing an FTE to UCUT to develop
	CRITFC, UCUT, etc.			Separate funding proposal to address capture of tribal data. \$230,000, as contained in NED proposal.
Section 3: DMFS designated Priority 3				
Hatchery Releases (for individual locations and times)	IDFG	Develop internal databases for Chinook and steelhead; create standard recording format		(Pursuing through other funding)
	MFWP	Resident game fish stocking that corresponds with valid LLID location codes		

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	ODFW	Continue preliminary work of relating release locations to LLID; exchange any completed work as pilot in the mid-Columbia ESU		Automated data capture routine (\$11,000); develop and exchange unrolled release data (\$20,000)
	WDFW	No work planned on existing staffing		Provide unrolled release data (19,500)
	USFWS	Data available for conversion, will provide if requested.		Provide release data (no additional funding requested)
Distribution (Documented occurrence)	IDFG	No work currently planned		Provide documented occurrence data (\$75,000 total for 1 FTE, 3+ data types)
	MFWP	Already incorporated in Generalized Fish Distribution		
	ODFW	No work currently planned		Provide documented occurrence data (\$47,600) once DEF is done
	WDFW	No work currently planned		Provide documented occurrence data for focal populations (\$39,000)
Dams/Passage Facilities	IDFG	Maintain existing data only		
	MFWP	Dam data will be updated and exchanged		
	ODFW	No work currently planned		
	WDFW	Maintain existing data only	Maintain and update current coverage alternate years (\$24,000 total for parity)	
Hatchery Facilities	IDFG	Maintain existing data only		
	MFWP	Maintain and update data annually		
	ODFW	No work currently planned		
	WDFW	Maintain and update data annually		

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	USFWS	Maintain and update data annually		
Barriers/Culverts	IDFG	Maintain existing data only		
	MFWP	Maintain and update data annually		
	ODFW	Synthesize existing data for mid-Columbia recovery area; convert existing data to 24K	Extend work to synthesize existing data from ODFW & others for Lower Col. recovery area (\$112,200 total for parity)	Convert existing data statewide to 24K hydro (\$40,600)
	WDFW	Maintain existing data only	Update data in alternating years (\$64,000 total for parity)	
Hydrography, (lakes/reservoir layer)	IDFG	Maintain 100K streams and lakes layers		
	MFWP	Maintain 100K; NRIS is updating 24K		
	ODFW	Maintain and update 100k as necessary; contribute work on developing 24K; submit statewide 24K lakes layer		
	WDFW	Maintain 100K and mixed scale streams and lakes layers;		
HUCs 4, 5	PSMFC	Maintain layers, update as required		
HUC 6	PSMFC	Obtain as HUCs are finalized		
Subbasins	PSMFC	Maintain existing subbasin layer		
Maps, photographs	PSMFC	Maintain the catalog of pre-made maps and photographs		
Protected Areas	PSMFC	Maintain the Protected Areas database, resolve any remaining location issues		
Smolt Density Model data	PSMFC	Maintain the Smolt Density Model data		

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Independent Data Sets	PSMFC	Maintain the Data Store; assist development of independent data sets for inclusion.		
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Footnotes

- ^a ODFW StreamNet is limiting effort by location, focusing on a subbasin by subbasin approach, beginning with the John Day. Work in subsequent subbasins will be done in turn, to the extent possible by existing staff levels.
- ^b WDFW StreamNet is limiting effort by location, with most work focused on the 10 subbasins in the Lower Columbia. Data development work in the upper subbasins in eastern Washington is being dropped under current staff levels.
- ^c Genetics was ranked Priority 1 for Montana, Priority 2 for the other states.

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