RPA No.

Action Description

Implementation Plans, Annual Progress Reporting and Comprehensive RPA Evaluations

Habitat Strategy 1—Protect and Improve Tributary Habitat Based on Biological Needs and Prioritized Actions

35

Tributary Habitat Implementation 2010-2018 – Achieving Habitat Quality and Survival Improvement Targets.

The Action Agencies will identify additional habitat projects for implementation based on the population specific overall habitat quality improvement still remaining in Table 5 below. Projects will identify location, treatment of limiting factor, targeted population or populations, appropriate reporting metrics, and estimated biological benefits based on achieving those metrics. Pertinent new information on climate change and potential effects of that information on limiting factors will be considered.

- a) During 2010 to 2018, the Action Agencies will provide funding and/or technical assistance to implement specific habitat projects to achieve the specified habitat quality improvements listed in Table 5. Habitat quality improvements associated with projects will be estimated in advance of project selection by expert panels. The Action Agencies will convene expert panels to estimate changes in habitat limiting factors from the implementation of Action Agency habitat actions.
 - The Action Agencies shall convene an expert panel to evaluate the percent change in overall habitat quality at the population scale from projects implemented previously (if quantitative objectives not met) and projects proposed for the implementation until the next check-in.
 - The expert panel will use methods consistent with the NWR v. NMFS Remand Collaboration Habitat Workgroup process.
 - Project proposals will clearly describe the completed project in terms of

Implementation Plans

- Specific projects will be identified in implementation plans in December 2009, 2013, and 2016. Plans will include location, limiting factor treated, targeted population(s), reporting metrics and expected biological benefits for each project.
- Progress Guidelines: To maintain progress toward the 2018 survival improvements, each implementation plan cycle will identify projects the Action Agencies will fund to achieve approximately 33% of the remaining habitat improvements needed to be met in each cycle will be determined based on the tributary survival benefits achieved from projects, as implemented, in the previous cycle. The 2016 Plan will identify steps the Action Agencies will take to ensure that projects needed to cover any remaining tributary survival deficits will be fully funded by 2018.

Annual Progress Reports

Status of project implementation

RPA No.

Action Description

Implementation Plans, Annual Progress Reporting and Comprehensive RPA Evaluations

Habitat Strategy 1—Protect and Improve Tributary Habitat Based on Biological Needs and Prioritized Actions

- quantitative habitat metrics which can be used to quantitatively evaluate progress and completion of individual projects.
- The Action Agencies will use the expert panels to provide input on changes in habitat quality and function as a result of limiting factor improvements from project actions for the priority population areas and this information will be used to assess improvements to salmonid survival. If actions from the previous cycle prove infeasible, in whole or in part, the Action Agencies will ensure implementation of comparable replacement projects in the next implementation plan cycle to maintain estimated habitat quality improvements at the population level and achieve equivalent survival benefits. If infeasible at the population level, then alternatively replacement projects will be found to provide benefits at the MPG or ESU/DPS level. Selection of replacement projects to ensure comparable survival benefits will be made based on input from expert panels, regional recovery planning groups, the Northwest Power and Conservation Council, and NOAA Fisheries. The Action Agencies will continue to work cooperatively with the Council to identify priorities and obtain ISRP review of projects proposed for BPA funding.
- RM&E will inform the relationship between actions, habitat quality and salmon productivity for use in a model developed through the FCRPS
 RM&E Strategy 3, Action 57 and new scientific information will be applied to estimate benefits for future implementation.
- If new scientific or other information (except incomplete implementation or project modifications) suggests that habitat quality improvement estimates for projects from the previous cycle were significantly in error, the Action Agencies will examine the information and review the project

- (including project milestones) through December of previous year for all actions identified in implementation plans.
- Report physical metrics for implementation achieved (e.g., miles of access, cfs streamflow acquired, #s of screens installed, miles of acres of habitat protected or enhanced, and miles of complexity enhanced by benefited population(s)) relative to the total needed to complete project and achieve the estimated survival benefits, by project.

2013 and 2016 Comprehensive RPA Evaluation Reports

- Comprehensive report on status of project implementation, by project, (including project milestones) for all actions identified in implementation plans.
- Comprehensive report of physical metrics for implementation achieved (e.g. miles of access, cfs streamflow acquired #s of screens installed, miles or acres of habitat protected or enhanced, and miles of complexity enhanced by benefited population(s)) and still remaining, by

RPA No.

Action Description

Implementation Plans, Annual Progress Reporting and Comprehensive RPA Evaluations

Habitat Strategy 1—Protect and Improve Tributary Habitat Based on Biological Needs and Prioritized Actions

or projects in question and their estimated benefits. This review will occur as part of the 2009 Annual Report and the Comprehensive RPA Evaluations in 2013 and 2016 and will be performed in conjunction with NOAA Fisheries. In the event such review finds that habitat quality improvement benefits were significantly overstated, the Action Agencies will implement replacement projects (selected as per Action 35 above) to provide benefits sufficient to achieve the habitat quality improvement and population-or MPG-specific survival benefit estimated for the original project or projects.

- b) During 2010-2018, for non-bolded populations in Table 5, the Action Agencies may provide funding and/or technical assistance for replacement projects should they become necessary for the Action Agencies to achieve equivalent MPG or ESU survival benefits.
- c) For those lower Columbia populations above Bonneville Dam that have been significantly impacted by the FCRPS (CR chum, LCR coho, LCR Chinook, and LCR steelhead) the Action Agencies may provide funding and/or technical assistance for habitat improvement projects consistent with basin wide criteria for prioritizing projects, including Recovery Plan priorities.

project.

- By population, report progress toward overall habitat quality improvement targets and population-specific survival benefit.
- Where population-specific survival benefits are not achieving Progress Guidelines above, identify processes or projects to place to ensure achievements by the next comprehensive report.
- Report results of all biological effectiveness monitoring/studies, including new scientific information, and identify how results will be applied to future implementation, if appropriate.
- Where new scientific or other information suggests that habitat quality improvement estimates for projects from the previous cycle were significantly in error, the Action Agencies will describe the analytical approach used to re-evaluate the estimated habitat and survival benefits for each project affected.

 Table 5. Estimated Habitat Quality Improvements

ESU	Major Population Group	Population	Estimated Percentage Habitat Quality Improvement of 2007- 2009 Actions	Total Estimated Percentage Habitat Quality Improvement of 2007-2018 Actions
Snake River Spring/Summer Chinook	Grand Ronde/Imnaha	Catherine Creek	4	23
		Lostine/Wallowa River	2	2 *
		Grand Ronde River upper mainstem	2	23
		Imnaha River mainstem	1	1 *
	Middle Fork Salmon River	Big Creek	1	1 *
	South Fork Salmon River	Secesh River	1	1 *
		South Fork Salmon River Mainstem	<1	<1 *
	Lower Snake	Tucannon River	7	17
	Upper Salmon River	East Fork Salmon River	1	1 *
		Lemhi River	7	7 *
		Pahsimeroi River	41	41 *
		Salmon River lower mainstem below Redfish Lake	1	1 *
		Salmon River upper mainstem above Redfish Lake	14	14 *
		Valley Creek	1	1 *
		Yankee Fork	10	30
Upper Columbia Spring Chinook	Upper Columbia – Below Chief Joseph	Entiat River	10	22
		Methow River	2	6
		Wenatchee River	1	3

 Table 5. Estimated Habitat Quality Improvements (continued)

ESU	Major Population Group	Population	Estimated Percentage Habitat Quality Improvement of 2007- 2009 Actions	Total Estimated Percentage Habitat Quality Improvement of 2007-2018 Actions
Middle Columbia	02046	Deschutes River – eastside	1	1 *
Steelhead	Cascades Eastern Slope Tributaries	Deschutes River – Westside	<1	<1 *
		Fifteen mile Creek (winter run)	<1	<1 *
		Klickitat River	4	4 *
	John Day River	John Day River lower mainstem tributaries	<1	<1 *
		John Day River upper mainstem	<1	<1 *
		Middle Fork John Day River	<1	<1 *
		North Fork John Day River	<1	<1 *
		South Fork John Day River	1	1 *
	Umatilla and Walla Walla River	Touchet River	4	4 *
		Umatilla River	4	4 *
		Walla Walla River	4	4 *
	Yakima River Group	Naches River	4	4 *
		Satus Creek	4	4 *
		Toppenish	4	4 *
		Yakima River upper mainstem	4	4 *
Snake River Steelhead	Clearwater River	Lochsa River	6	16
		Lolo Creek	8	12
		Selway River	<1	<1
		South Fork Clearwater River	5	14

 Table 5. Estimated Habitat Quality Improvements (continued)

ESU	Major Population Group	Population	Estimated Percentage Habitat Quality Improvement of 2007- 2009 Actions	Total Estimated Percentage Habitat Quality Improvement of 2007-2018 Actions
Snake River Steelhead	Grand Ronde River	Grand Ronde River lower	2007 Actions	01 2007-2010 Actions
	Grand Ronde River	mainstem tributaries	<1	<1 *
		Grand Ronde River upper		
		mainstem	4	4 *
		Joseph Creek (OR)	<1	<1 *
		Joseph Creek (WA)	4	4 *
		Wallowa River	<1	<1 *
	Hells Canyon	Hells Canyon	<u> </u>	<u> </u>
	Imnaha River	Imnaha River		*
	Lower Snake	Asotin Creek	4	4 *
	Lower Shake	Tucannon River	5	5 *
	Salmon River	Lower Middle Fork	3	J :
	Samon River	mainstem and tribs (Big,	1	2
		Camas, and Loon Creeks)	1	2
		East Fork Salmon River	2	2 *
		Lemhi River	3	3 *
		Pahsimeroi River	9	9 *
		Salmon River upper	,	
		mainstem	6	6 *
		Secesh River	1	6
		South Fork Salmon River	<1	1
Upper Columbia Steelhead	Upper Columbia River –	Entiat River	6	8
	below Chief Joseph	Methow River	2	4
	coro emer vosepii	Okanogan River	12	14
		Wenatchee River	1	4

^{*} The Action Agencies may provide funding and/or technical assistance for replacement projects should they become necessary for the Action Agencies to achieve equivalent MPG or ESU survival benefits.