



Revised Strategy for Determining Targeted Acres for Recovery in the Lower Columbia River and Estuary

Follow up to initial results presented at the August 2013
Science Work Group

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November 2013

Previous Strategy for Setting Targets:

- Set Baseline Target for Priority Habitat #1 based on its historical % composition to floodplain area.
- Set remaining targets for other PH's based on their relative historic ratios to PH1

Limitation to this method: Baselines are set unrealistically high for most Reaches (i.e. there is not enough recoverable habitat to meet the targets)

Revised Strategy for Setting Targets:

- Targeted acreage for each PH is set equal to 30% (by 2030) and then 40% (by 2050) of its historical extent.
- Targeted acreage = current habitat + deficit

Using the Revised Strategy, most Reaches have habitat targets that are achievable based on the amount of Recoverable Habitat.

Revised Estimates for Targeted Habitat Recovery, based on Historical Habitat Extents

Reach	Available Rec. Habitat	PH1					PH2					PH3					PH4					Acre Margin for 30% recovery	Acre Margin for 40% recovery
		Hist. Acres	30% Hist acres	30% deficit acres	40% Hist acres	40% deficit acres	Hist. Acres	30% Hist acres	30% deficit acres	40% Hist acres	40% deficit acres	Hist. Acres	30% Hist acres	30% deficit acres	40% Hist acres	40% deficit acres	Hist. Acres	30% Hist acres	30% deficit acres	40% Hist acres	40% deficit acres		
A	10062	8031	2409	929	3212	1732	3578	1073	854	1431	1212										8278	7117	
B	10417	14459	4338	(251)	5784	1195	7983	2395	(3138)	3193	(2340)										10417	9222	
C	18837	13876	4163	1937	5550	3324	11753	3526	2173	4701	3348										14727	12164	
D	1098	2570	771	638	1028	895	2740	822	539	1096	813	8164	2449	(950)	3266	(133)	3135	941	(353)	1254	(39)	(79)	(610)
E	9173	5243	1573	1157	2097	1681	7473	2242	(1220)	2989	(473)	1680	504	338	672	506	1290	387	195	516	324	7483	6662
F	24567	29253	8776	(319)	11701	2606	9688	2906	836	3875	1805	11604	3481	(2708)	4642	(1547)	2069	621	103	828	310	23628	19846
G	2510	18790	5637	(792)	7516	1087	7537	2261	683	3015	1437	3392	1018	(949)	1357	(610)						1827	(14)
H	546	3342	1003	(129)	1337	205															546	341	

For all negative deficits (values in red), we will attempt to 'hold the line' for these habitats

Comparison of previous strategy vs. revised (30%)

		Original Strategy: Baseline Established Using Historic Ratio of PH1 relative to Historical Floodplain Area						Revised Strategy: Baseline Established using 30% of total historical extent for all PH's					
Reach	Available Rec. Habitat	Acre Deficit : PH1	Acre Deficit : PH2	Acre Deficit : PH3	Acre Deficit : PH4	Total Deficit	Margin	Acre Deficit : PH1	Acre Deficit : PH2	Acre Deficit : PH3	Acre Deficit : PH4	Total Deficit	Margin
A	10,062	6,188	3,197	--	--	9,385	677	929	854	--	--	1,784	8,278
B	10,417	9,664	2,336	--	--	12,000	-1,583	-251	-3,138	--	--	0	10,417
C	18,837	10,446	9,380	--	--	19,825	-988	1,937	2,173	--	--	4,110	14,727
D	1,098	1,248	1,190	989	392	3,819	-2,721	638	539	-950	-353	1,177	-79
E	9,173	4,240	3,367	1,326	954	9,887	-714	1,157	-1,220	338	195	1,690	7,483
F	24,567	13,660	5,466	2,838	1,091	23,056	1,511	-319	836	-2708	103	939	23,628
G	2,510	4,542	4,401	14	--	7,379	-4,869	-792	683	-949	--	683	1,827
H	546	1,917	--	--	--	1,917	-1,371	-129	--	--	--	0	546
Totals	77,210					87,268	-10,058					10,383	66,828



For all negative deficits (values in red), we will attempt to 'hold the line' for these habitats

Priority Habitats from Habitat Change Analysis

Reach	Priority Habitats			
	1	2	3	4
A	herbaceous tidal WL	wooded tidal WL		
B	wooded tidal WL	herbaceous tidal WL		
C	wooded tidal WL	herbaceous tidal WL		
D	herbaceous tidal WL	wooded tidal WL	forested	herbaceous
E	herbaceous	forested	shrub-scrub	herbaceous tidal WL
F	forested	herbaceous	herbaceous WL	shrub-scrub
G	forested	herbaceous	herbaceous WL	
H	wooded WL			

Current Statistics Compiled for LCRE

- Number of historical habitat acres lost by reach, region, and entire LCRE
 - Includes all 'habitat'
- Extent of 'Priority Habitats' remaining/lost by reach, region and entire LCRE
 - Overall acres
 - Acres in public and/or conservation status
- Amount of 'recoverable' acres by reach, region and entire LCRE
 - Typically includes agricultural land, and non-tidal wetlands (lower reaches)
 - Overall acres
 - Acres in public and/or conservation status
- Ratios of historical and current habitat compositions
- Number of acres restored since 1999 by reach, region and entire LCRE
 - How much has happened since 2010 land cover data was produced (2009 data)?
- Number of acres protected/conserved since 1999 by reach, region and entire LCRE