

FY-2004 FUNDING RECOMMENDATIONS BY HBC AD HOC												
ORIG. ID	THREAT	Rec. Goal	6/23 Conf Call	Project Descriptions	My take on Linkage to Orig. Ids	2003 Budget	2004 Budget NEEDS	PROPOSED 2004 Budget	2004 Total Difference	In/Out Category	Priority Score	COMMENTS
HUMPBACK CHUB PLAN ACTIONS												
1	0	0.21	H, M, W	Willow Beach Genetics Assessment	2,3,4,19	16,800		0	0	N/A		On-going funded by FWS.
2	0	0.23	L, W	Genetics Refugium	1 & 3		125,000	0	125,000	*		Not just 30-mile aggregate. Need for project still to be determined. Same comment as to in and out as for Project 19.
3	0	0.24	N/A	HBC Genetics Evaluation	1 & 2	51,000	0	0	0	N/A		Funded by GCMRC in 2001; Final report due in January 2005
4	0	0.22	N/A	Feasibility of HBC Augmentation	5 & 17	23,000	0	0	0	N/A		To be completed in 2003
5a	0	0.10	H,L	HBC Translocation to Tributaries (Chute Falls)	17	23,000	50,000	25,000	25,000	*		Funded by Bureau of Reclamation. Unsure of in and out: looking for connection to BO dam operations. Modification of physical environment and predators.
5b1	0	0.11	H	HBC Translocation Other to Tributaries (Feasibility)	2, 6, 10, 11, 13, 17, & 19		25,000	25,000	0	*		Development & evaluation of a tributary refugia plan. Unsure of in and out: refer to comment for 5a.
5b2	0	0.12	H,L,W	HBC Translocation to Other Tributaries (Implementation)			0	0	0	*		Dependent upon 5b1. Unsure of in and out: refer to comment for 5a.
6	1	3.00	H	Temperature Control Device	5 & 17	80,000	200,000	200,000	0	B		(Funded by USBR Appropriations only). Capital construction is provided through USBR appropriations S. 8. A as to in/out while determining how to operate through monitoring. Once it becomes a management action becomes C as to in/out.
7a	1	2.00	H	Dam Operations Experiment:Planning for monitoring& Research.			50,000	50,000		A		Planning experimental flows for FY 2004 and beyond.
7b	1	3.00	H	Dam Operations Experiment: monitoring and research.			150,000	150,000		A		Implementation of experimental flows for FY 2004 and beyond; FY 2004 expenditures dependent upon successful completion of 7a.
8a	1		H, M	Turbidity Augmentation Feasibility (In office only)	7		50,000	50,000		A/C		Would address feasibility of this project. Tied to dam operations and HBC survival. A designation is for research only on operations.
8b	1		L	Sediment Augmentation Feasibility (In office only)			160,000	0	160,000	A/C		Low priority.
9	2	4.00	H, M	Scientific/Recreation Impact Assessment	17		41,200	41,200	0	A/C		\$10,600 to support scientific impact assessment (FY2004); \$30,600 to support recreational impact assessment (FY2004-05). Science (A); recreation (C).
10	3	8.10	H	Bright Angel Non-native Fish Removal	6 & 17		167,000	167,000	0	B		Funded through NPS fee demo funds only. As to in/out, same concern as to Project 11.
11	3	8.20	H	Tributary Non-native Fish Survey/Removal	5, 6, & 7		190,000	190,000	0	B		Funded through NPS, not fee demo funds. Biological opinion concern as to establishment of 2nd population.
12	3	7.00	H	LCR Confluence NNF Mechanical Removal	6 & 17		586,000	586,000	0	A/C		Funded under existing experimental flow budget. A is justified as part of Adaptive Management. As it becomes part of management activities, may become C.
13	3	8.30	H,W	Fish Monitoring below Diamond Creek	6 & 17		50,000	50,000	0	A		Funded for implementation in 2004; coordinate with MSCP in 2005 and beyond. Funded under GCRM (Project B2, downstream fish monitoring) FY04 workplan.
14	4	10.20	H,M	Invasive Species Management Plan			50,000	50,000	0	A/B/C		Coordinate with DOI and State of AZ. Colorado River Basin States would prepare invasive species management plan.
15	3	5.10	H	Monitoring Parasites and Diseases	17		105,000	50,000	55,000	A		Development of monitoring and control plan.
16	4	10.10	H,M,W	Assist in the development of a LCR Management Plan	5a, 6, 9, 12, 20, & 21		20,000	0	20,000	A/C		Project deferred until 2005, Biological Opinion requirement as to in/out. Bureau of Reclamation responsible to interact in the development of a LCR Management Plan; they are not responsible for implementation.
17a	0	0.00	H,L,W	Evaluate Concurrent LCR/Mainstem HBC Pop Estimate	6, 7, 9, 10, 11, 12, 13, & 15		50,000	50,000	0	A		Recommended be referred to Science Advisory Board for review and be asked to convene expert panel, recommendation to AMWG by end of year. Not in full agreement due to discrepancy between recovery goals and stock assessment.
17b	0	0.00	H	Implement Concurrent LCR/Mainstem HBC Pop Estimate			200,000	200,000		A		If deemed appropriate by AMWG, conduct concurrent estimates in FY 2004-06.
18			H,L	AMWG Outreach Program			85,000	85,000	0	A		Project to be accomplished by AMWG within existing agency budgets; combined with Glen Canyon Dam AMP comprehensive outreach.
19	0	0.20	H	Genetics Management Plan	1, 2, 3, & 4		40,000	40,000	0	*		Unsure of in and out: under authority of FWS, determination of refugium not tied to dam operations or species is imperiled due to dam operations and should take such efforts to preserve species.
20	5	12.00	H	LCR Spill Prevention Plan	21		100,000	100,000	0	A/C		Project would begin in Fiscal Year 2004 and be completed in 2005. Biological notes a management plan for LCR.
21	5	11.00	M,H	LCR Pollution Control Plan	20		50,000	50,000	0	A/C		Project would begin in Fiscal Year 2004 and be completed in 2005. Biological Opinion notes a management plan for LCR.
22	3	6.00	H	Development of nonnative stocking procedures.			50,000	50,000		B/C		No project proposal at this time. This is in recovery goals, not under effect or influence of operations. Authorities tied to States, FWS, and Tribes.
23	3	5.20	H	Investigate control of diseases and parasites.			50,000	50,000		A/C		Complete planning during 2004; implement 2005 if feasible. In/out would be determined by causal environmental agent.
HBC PLAN SUBTOTAL						193,800	2,644,200	2,259,200	385,000			
<p>FOOTNOTES:H=High, M=Moderate, L=Low, W=Wait, and N/A=Not Applicable *Unsure as to in and out category; needs additional discussion.</p>												