July 2020 MPS Budget Notes:

General Challenges with Creating a balanced Long-Term MPS:

Past delays and deferrals concentrated expensive implmentaiton phases into the FY24-25 biennium.
Project lasts for different lengths of time and costs vary substantially year to year.
Projects generally can't be moved earlier than scheduled due needed the up-front work and processes.
Budgets for projects not yet scoped or designed are very tentative.
The actual time for a SAG to accomplish any task is unpredictable.
We have projects being designed internally (signifying priority) that have not been assigned implementation budgets.
The water typing studies will have very high costs - needing a new revenue stream or will replace multiple ongoing studies.
ETHEP will need funds beginning FY23-FY24.
RCS study may cost a little more than budgeted to implement.
A moderate positive variance could be used by one or both of these smaller projects in next two biennium.

The following two alternative scenarios were recommended by Policy Budget Subcommittee for consideration at the July 14 TFW Policy meeting:

Changes Common to both Scenarios:

Scenario 1 and 2:	**Reason for Proposed Change:**
1) Amphibians in discontinuously flowing Np reaches scoped then held for 3 years.	Held to manage budget deficits and to consider need after Np buffer decisions.
2) Purchase LiDAR for DSL and ENREP studies in FY22-23 biennium.	Uses high single year surplus in biennium and needed for ongoing research.
3) Wetlands Intensive Monitoring moved out to 2029.	Moved out to start after preliminary subject matter studies are completed.
4) Road Sub-Basin-Scale Effectiveness Monitoring moved out to 2029.	Moved out to start after preliminary subject matter studies are completed.
5) Watershed Scale Assessment of Cumulative Effects moved out to 2029.	Moved out to start after preliminary subject matter studies are completed.

Changes Unique to Each Scenario

Scenario 1:	**Reason for Proposed Change:**
1) Hire both CMER staff in 2022.	Staff do the heavy lifting for projects, and hiring timing can be moved to address additional budget cuts.
2) Westside Type F moved out one year.	Believe needed anyway given current status.
4) WMZ study designed by staff on schedule, but implementation moved out three years.	Field implementation moved out to manage budget.
3) RCS combines east and west side sampling into one sample year (2023).	Combined to manage projected surplus in biennium.

Scenario 2:	**Reason for Proposed Change:**
1) Hires one CMER staff in 2022, and the other in 2026.	Eases current staff overload issue while freeing up funds for HR Phase III.
2) Westside Type F moved out three years.	Moves project out further to free funds for HR Phase III.
4) WMZ study scoped by WetSAG then delayed for four years.	Moved out to free funds for HR Phase III and to manage budget.
6) Add Hard Rock Phase III Amphibian Demographics two-year option to FY22-23.	Needs to happen ASAP because we are losing reference sites.

Both scenarios leave small positive variances in next two biennium.

Master Project Schedule and Budget for the Adaptive Management Program — **Scenario 1**

Originally approved by the Forest Practices Board - 09 May 2019 (with Amendments)

Modified and approved by Board - 13 May 2020

Adjustments and proposed revisions post 05/13/2020 are shown in "revised columns" (version date: 07/09/20)

Revised estimates shown in cells with blue highlighting

Expenditure	Origin	FY2020	Revised FY2020	FY2021	Revised FY2021	FY2022	Revised FY2022	FY2023	Revised FY2023	FY2024	Revised FY2024	FY2025	Revised FY2025	FY2026	Revised FY2026	FY2027	Revised FY2027	FY2028	Revised FY2028	FY2029	Revised FY2029	FY2030	Revised FY2030	FY2031	Revised FY2031	FY2032	Revised FY2032	FY2033	Revised FY2033	FY2034	Revised FY2034	FY2035	Revised FY2035
Administration and Program Staff																																	
Program Administration (AMPA and Contract Specialist)		254,600	254,600	254,600	254,600	262,200	262,200	339,950	339,950	346,749	346,749	346,749	346,749	353,684	353,684	353,684	353,684	360,758	360,758	360,758	360,758	367,973	367,973	367,973	367,973	375,332	375,332	375,332	375,332	382,839	382,839	382,839	382,839
Administrative Assistant *(supports TFW Policy & CMER)*		56,100	56,100	93,300	93,300	96,300	96,300	96,300	96,300	98,226	98,226	98,226	98,226	100,191	100,191	100,191	100,191	102,194	102,194	102,194	102,194	104,238	104,238	104,238	104,238	106,323	106,323	106,323	106,323	108,449	108,449	108,449	108,449
Project Support (3.75 Project Managers)		489,700	489,700	598,300	598,300	616,200	616,200	616,200	616,200	628,524	628,524	628,524	628,524	641,094	641,094	641,094	641,094	653,916	653,916	653,916	653,916	666,995	666,995	666,995	666,995	680,335	680,335	680,335	680,335	693,941	693,941	693,941	693,941
CMER Scientists (4 at NWFC: Ecologist, Geologist, Riparian, Wetlands)		498,275	491,042	350,255	351,255	664,078	588,698	704,711	639,998	718,805	682,770	718,805	715,928	733,181	735,467	733,181	748,338	747,845	761,434	747,845	774,759	762,802	788,317	762,802	802,113	778,058	816,150	778,058	830,433	793,619	844,965	793,619	859,752
CMER Scientist Eastside (NRS 4)		94,600	94,600	167,000	167,000	177,100	177,100	177,100	177,100	180,642	180,642	180,642	180,642	184,255	184,255	184,255	184,255	187,940	187,940	187,940	187,940	191,699	191,699	191,699	191,699	195,533	195,533	195,533	195,533	199,443	199,443	199,443	199,443
Independent Scientific Peer-Review		95,874	77,023	67,500	149,638	69,525	69,525	69,525	69,525	71,611	71,611	71,611	71,611	73,759	73,759	73,759	73,759	75,972	75,972	75,972	75,972	78,251	78,251	78,251	78,251	80,599	80,599	80,599	80,599	83,016	83,016	83,016	83,016
Information Management System Updates		0	0	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
CMER Conference (Facility, refreshments, programs)		0	0	0	0	0	0	5,000	5,000	10,000	10,000			10,000	10,000			10,000	10,000			10,000	10,000										
Contingency Fund for Projects		40,000	0	27,235	53,240	100,000	100,000	0	0	100,000	100,000	0	0	100,000	100,000	0	0	100,000	100,000	0	0	100,000	100,000	0	0	100,000	100,000	0	0	100,000	100,000	0	0
~~TFW Policy Committee Facilitation (on call contract)~~		0	0	0	0																												
~~Technical Editor (on call contract)~~		0	0																														
Policy Committee Non-CMER Initiatives																																	
Type Np Workgroup (Collaborative Research Allowance, Direct Buy, & Enhanced Participation Grants)		117,000	50,000	7,400	81,400																												
AMP Principals Facilitation (Center for Conservation Peacebuilding)		150,000	150,000	0	0																												
Research and Monitoring Projects																																	
Hard Rock Lithology- Type N Experimental Buffer Treatment Project - Temperature Monitoring (Report extended		124,175	124,175	28,884	28,884																												
Hard Rock Lithology- Type N Experimental Buffer Treatment Project - Extended Amphibian (Analysis & Summary		36,715	36,715	34,848	34,848	15,000	15,000																										
Soft Rock Lithology -Type N Experimental Buffer Treatment Project - (1) Monitoring ends fall 2017, 2-yr post-harvest	CWA	20,000	20,000	0	0																												
Soft Rock Lithology -Type N Experimental Buffer Treatment Project - Extended monitoring through 2020 (PY21)		139,000	101,465	151,000	151,000																												
Extensive Riparian Status and Trends Monitoring -- Vegetation, Type F/N - Westside (Remote Sensing)		19,000	17,800	0	1,200																												
Unstable Slopes Criteria - Object-based Landform Mapping	CWA	8,840	8,840	0	0	28,450	28,450	0	0																								
Unstable Slopes Criteria - Shallow Landslide Susceptibility	CWA	0	0	0	0	50,000	50,000	150,000	150,000	78,960	78,960	25,000	25,000																				
Unstable Slopes Criteria - Shallow Landslide Runout	CWA			0	0			50,000	50,000	100,000	100,000	25,000	25,000																				
Unstable Slopes Criteria - Management Susceptibility Modeling	CWA							0	0	25,000	25,000	100,000	100,000	75,000	75,000	25,000	25,000																
Eastside Type N Riparian Effectiveness (ENREP)	CWA	696,376	534,593	632,481	784,269	687,717	687,717	702,035	702,035	737,632	737,632	590,730	590,730	550,511	550,511	289,904	289,904	93,550	93,550														
Westside Type F Riparian Prescription Monitoring	CWA	125,000	120,917	0	0	78,702	0	136,318	167,272	136,318	375,020	136,318	245,860	136,318	134,660	127,289	375,020	21,600	297,860	20,000	21,600		0										
Road Prescription-Scale Effectiveness Monitoring	CWA	402,204	286,342	428,920	544,781	521,980	521,980	546,980	546,980	506,980	506,980	486,980	486,980	486,980	486,980	291,000	291,000	75,000	75,000	25,000	25,000												
Deep Seated Research Strategy -- Mapping Objectives		0	0	0	0	100,000	100,000	60,000	60,000	25,000	25,000																						
Deep Seated Research Strategy -- Pilot Classification		0	0	0	0	40,000	40,000	25,000	25,000	50,000	50,000																						
Deep Seated Research Strategy -- Toolkit Development						25,000	25,000																										
Deep Seated Research Strategy -- Groundwater Modeling						0	0	50,000	50,000	100,000	100,000	125,000	125,000	25,000	25,000																		
Deep Seated Research Strategy -- Physical Modeling						0	0	75,000	75,000	50,000	50,000	50,000	50,000	100,000	100,000	175,000	175,000	175,000	175,000	25,000	25,000												
Deep Seated Research Strategy -- Landslide Monitoring						0	0	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000												
Amphibians in discontinuously flowing Np reaches	CWA	10,000	10,000	35,000	35,000	80,000	0	250,000	0	360,000	0	360,000	0	360,000	80,000	75,000	250,000	25,000	360,000		360,000		360,000		250,000		25,000						
Eastside Timber Harvest Types Evaluation Project (ETHEP)		0	0	0	0																												

Water Typing Strategy (PHB Validation, Physicals, LiDAR Model Map)	FPB	75,000	75,000	0	0																												
Fish/Habitat Detection using eDNA -- re-scoped to pilot project		0	0	0	5,500																												
~~Riparian Literature Synthesis Project~~				0	0																												
Wetlands Instrinsic Potential (WIP) Tool		10,773	0		10,773																												
Literature Review -- Forested Wetlands (Updated; WetSAG)		11,439	11,439																														
Riparian Characteristics and Shade Response		10,875	8,569	0	0	98,955	98,955	188,190	376,380	188,190	20,000	20,000																					
Forested Wetlands Effectiveness Study	CWA	7,938	6,300	0	0	165,000	165,000	232,500	232,500	182,500	182,500	200,000	200,000	150,000	150,000	150,000	150,000	200,000	200,000	0	0	0	0										
Wetlands Management Zone Effectiveness Monitoring (Study Design in FY20/21 by CMER Sci)	CWA	0	0	0	0	100,000	0	0	0	360,000	0	360,000	0	360,000		360,000	360,000	100,000	360,000	450,000	360,000		360,000		360,000		100,000		45,000				
Wetlands Intensive Monitoring	CWA																			50,000	50,000	200,000	200,000	200,000	200,000	200,000	200,000						
Road Sub-Basin-Scale Effectiveness Monitoring -- Resample (Re-scoping)	CWA																			75,000	0	250,000	75,000	250,000	250,000	250,000	250,000		250,000				
Watershed Scale Assessment of Cumulative Effects (roads and riparian) -- *post* Effectiveness Monitoring	CWA															50,000	0	340,000	0	340,000	50,000		340,000		340,000		340,000		340,000		340,000		100000
EMEP - for going through ISPR review.		11,306	1,000		10,306																												
LiDAR for Unstable Slopes and ENREP work							198,644																										
AMP Research Expenses (Lines 6 to 53)		3,504,790	3,026,219	2,880,723	3,359,294	3,980,207	3,844,769	4,503,809	4,408,240	5,084,137	4,398,114	4,552,585	3,919,250	4,468,973	3,829,601	3,658,357	4,046,245	3,297,775	3,842,624	3,142,625	3,076,139	2,735,957	3,646,473	2,625,957	3,615,268	2,770,179	3,273,271	2,220,179	2,907,554	2,365,309	2,756,655	2,265,309	2,431,441
Projected Available Funds for Research (Rev. minus Partic Grants and Indirect)		4,138,725	4,138,725	4,157,964	4,157,964	4,138,725	4,138,725	4,157,964	4,157,964	4,138,725	4,138,725	4,157,964	4,157,964	4,138,725	4,138,725	4,157,964	4,157,964	4,138,725	4,138,725	4,157,964	4,157,964	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656
Rollover funds from previous FY (1st FY to 2nd FY)		0	0	633,935	1,112,505	0	0	158,518	293,956	0	0	(945,412)	(259,389)	0	0	(330,249)	309,123	0	0	840,949	296,100	0	0	1,332,699	422,183	0	0	1,298,477	795,385	0	0	1,703,347	1,312,001
Balance at the end of Fiscal Year *(Funds + FY1 Rollover - Expenses)*		633,935	1,112,505	1,911,175	1,911,175	158,518	293,956	(187,328)	43,679	(945,412)	(259,389)	(1,340,034)	(20,676)	(330,249)	309,123	169,358	420,842	840,949	296,100	1,856,288	1,377,925	1,332,699	422,183	2,775,397	875,571	1,298,477	795,385	3,146,954	1,956,487	1,703,347	1,312,001	3,506,695	2,949,216
REVENUE																																	
~~GF $ - AMP Carry Forward (i.e. base admin funding)~~		271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156
~~GF $ - AMP Research (1,870,000 +/- 40,000)~~		1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000
~~FFSA - AMP (Business and Occupation Tax surcharge)~~		5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000
Subtotal of Revenue		7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156
EXPENSES																																	
TPW Participation Agreements																																	
Tribal Participation Agreements		2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
NGO and County Participation Grants		537,332	537,332	518,093	518,093	537,332	537,332	518,093	518,093	537,332	537,332	518,093	518,093	537,332	537,332	518,093	518,093	537,332	537,332	518,093	518,093	537,332	537,332	518,093	518,093	537,332	537,332	518,093	518,093	537,332	537,332	518,093	518,093
State Agencies		367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990
FFSA DAHP (Dept. Archeology & Historic Preservation)		94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500
FFSA DNR Indirect		166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610
Subtotal of TPW Participation Agreements, DAHP, and indirect		3,666,432	3,666,432	3,647,193	3,647,193	3,666,432	3,666,432	3,647,193	3,647,193	3,666,432	3,666,432	3,647,193	3,647,193	3,666,432	3,666,432	3,647,193	3,647,193	3,666,432	3,666,432	3,647,193	3,647,193	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500
PROGRAM TOTALS																																	
Revenue		7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156
AMP Research Expenses		3,504,790	3,026,219	2,880,723	3,359,294	3,980,207	3,844,769	4,503,809	4,408,240	5,084,137	4,398,114	4,552,585	3,919,250	4,473,973	3,829,601	3,658,357	4,046,245	3,297,775	3,842,624	3,142,625	3,076,139	2,735,957	3,646,473	2,625,957	3,615,268	2,770,179	3,273,271	2,220,179	2,907,554	2,365,309	2,756,655	2,265,309	2,431,441
TPW Participation Agreements and Indirect		3,666,432	3,666,432	3,647,193	3,647,193	3,666,432	3,666,432	3,647,193	3,647,193	3,666,432	3,666,432	3,647,193	3,647,193	3,666,432	3,666,432	3,647,193	3,647,193	3,666,432	3,666,432	3,647,193	3,647,193	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500
Balance at the end of each fiscal year		633,935	1,112,505	1,277,241	798,670	158,518	293,956	(345,846)	(250,277)	(945,412)	(259,389)	(394,621)	238,714	(335,249)	309,123	499,606	111,719	840,949	296,100	1,015,338	1,081,824	1,332,699	422,183	1,442,699	453,388	1,298,477	795,385	1,848,477	1,161,102	1,703,347	1,312,001	1,803,347	1,637,215
Cumulative Balance at end of Biennium				1,911,175	1,911,175			(187,328)	43,679			(1,340,034)	(20,676)			164,358	420,842			1,856,288	1,377,925			2,775,397	875,571			3,146,954	1,956,487			3,506,695	2,949,216

Biennial Reduction in MPS Required **1,911,175**
Balance **0**

Summary of Scenario 1:
Specific to Scenario 1:
1) Hire both CMER staff in 2022.
2) Westside Type F moved out one year.
4) WMZ study designed by staff on schedule, but implementation moved out three years.
3) RCS combines east and west side sampling into one sample year (2023).

Common to all scenarios:
1) Amphibians in discontinuously flowing Np reaches scoped then held for 3 years.
2) Purchase LiDAR for DSL and ENREP studies in FY22-23 biennium.
3) Wetlands Intensive Monitoring moved out to 2029.
4) Road Sub-Basin-Scale Effectiveness Monitoring moved out to 2029.
5) Watershed Scale Assessment of Cumulative Effects moved out to 2029.

Master Project Schedule and Budget for the Adaptive Management Program Senario 2

Originally approved by the Forest Practices Board - 09 May 2019 (with Amendments)

Modified and approved by Board - 13 May 2020

Adjustments and proposed revisions post 05/13/2020 are shown in "revised columns" (version date: 07/09/20)

Revised estimates shown in cells with blue highlighting

Revision Reason	Expenditure	Origin	FY2020	Revised FY2020	FY2021	Revised FY2021	FY2022	Revised FY2022	FY2023	Revised FY2023	FY2024	Revised FY2024	FY2025	Revised FY2025
	Administration and Program Staff													
	Program Administration (AMPA and Contract Specialist)		254,600	254,600	254,600	254,600	262,200	262,200	339,950	339,950	346,749	346,749	346,749	346,749
	Administrative Assistant *(supports TFW Policy & CMER)*		56,100	56,100	93,300	93,300	96,300	96,300	96,300	96,300	98,226	98,226	98,226	98,226
	Project Support (3.75 Project Managers)		489,700	489,700	598,300	598,300	616,200	616,200	616,200	616,200	628,524	628,524	628,524	628,524
	CMER Scientists (4 at NWIFC: Ecologist, Geologist, Riparian, Wetlands)		498,275	491,042	350,255	351,255	664,078	495,126	704,711	521,001	718,805	554,355	718,805	579,844
	CMER Scientist Eastside (NRS 4)		94,600	94,600	167,000	167,000	177,100	177,100	177,100	177,100	180,642	180,642	180,642	180,642
	Independent Scientific Peer-Review		95,874	77,023	67,500	149,638	69,525	69,525	69,525	69,525	71,611	71,611	71,611	71,611
	Information Management System Updates		0	0	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
	CMER Conference (Facility, refreshments, programs)		0	0	0	0	0	0	5,000	5,000	10,000	10,000		
	Contingency Fund for Projects		40,000	0	27,235	53,240	100,000	100,000	0	0	100,000	100,000	0	0
	~~TFW Policy Committee Facilitation (on-call contract)~~		0	0	0	0								
	~~Technical Editor (on-call contract)~~		0	0										
	Policy Committee Non-CMER Initiatives													
	~~Type Np Workgroup (Collaborative Research Allowance, Direct Buy, & Enhanced Participation Grants)~~		117,000	50,000	7,400	81,400								
	~~AMP Principals Facilitation (Center for Conservation Peacebuilding)~~		150,000	150,000	0	0								
	Research and Monitoring Projects													
	Hard Rock Lithology- Type N Experimental Buffer Treatment Project - Temperature Monitoring (Report extended		124,175	124,175	28,884	28,884								
	Hard Rock Lithology- Type N Experimental Buffer Treatment Project - Extended Amphibian (Analysis & Summary		36,715	36,715	34,848	34,848	15,000	15,000						
	Soft Rock Lithology -Type N Experimental Buffer Treatment Project - (1) Monitoring ends fall 2017, 2-yr post-harvest	CWA	20,000	20,000	0	0								
	Soft Rock Lithology -Type N Experimental Buffer Treatment Project - Extended monitoring through 2020 (FY21)		139,000	101,465	151,000	151,000								
	Extensive Riparian Status and Trends Monitoring -- Vegetation, Type F/N - Westside (Remote Sensing)		19,000	17,800	0	1,200								
	Unstable Slopes Criteria - Object-based Landform Mapping	CWA	8,840	8,840	0	0	28,450	28,450	0	0				
	Unstable Slopes Criteria - Shallow Landslide Susceptibility	CWA	0	0	0	0	50,000	50,000	150,000	150,000	78,960	78,960	25,000	25,000
	Unstable Slopes Criteria - Shallow Landslide Runout	CWA			0	0			50,000	50,000	100,000	100,000	25,000	25,000
	Unstable Slopes Criteria - Management Susceptibility Modeling	CWA							0	0	25,000	25,000	100,000	100,000
	Eastside Type N Riparian Effectiveness (ENREP)	CWA	696,376	534,593	632,481	784,269	687,717	687,717	702,035	702,035	737,632	737,632	590,730	590,730
	Westside Type F Riparian Prescription Monitoring	CWA	125,000	120,917	0	0	78,702	0	136,318	0	136,318	0	136,318	167,272
	Road Prescription-Scale Effectiveness Monitoring	CWA	402,204	286,342	428,920	544,781	521,980	521,980	546,980	546,980	506,980	506,980	486,980	486,980
	Deep Seated Research Strategy -- Mapping Objectives		0	0	0	0	100,000	100,000	60,000	60,000	25,000	25,000		
	Deep Seated Research Strategy -- Pilot Classification		0	0	0	0	40,000	40,000	25,000	25,000	50,000	50,000		
	Deep Seated Research Strategy -- Toolkit Development						25,000	25,000						
	Deep Seated Research Strategy -- Groundwater Modeling						0	0	50,000	50,000	100,000	100,000	125,000	125,000
	Deep Seated Research Strategy -- Physical Modeling						0	0	75,000	75,000	50,000	50,000	50,000	50,000
	Deep Seated Research Strategy -- Landslide Monitoring						0	0	25,000	25,000	25,000	25,000	25,000	25,000
	Amphibians in discontinuously flowing Np reaches	CWA	10,000	10,000	35,000	35,000	80,000	0	250,000	0	360,000	0	360,000	80,000
	Eastside Timber Harvest Types Evaluation Project (ETHEP)		0	0	0	0								
	Water Typing Strategy (PHB Validation, Physicals, LiDAR Model Map)	FPB	75,000	75,000	0	0								
	Fish/Habitat Detection using eDNA -- re-scoped to pilot project		0	0	0	5,500								
	~~Riparian Literature Synthesis Project~~				0	0								
	Wetlands Instrinsic Potential (WIP) Tool		10,773	0		10,773								
	Literature Review -- Forested Wetlands (Updated; WetSAG)		11,439	11,439										
	Riparian Characteristics and Shade Response		10,875	8,569	0	0	98,955	98,955	188,190	188,190	188,190	188,190	20,000	20,000
	Forested Wetlands Effectiveness Study	CWA	7,938	6,300	0	0	165,000	165,000	232,500	232,500	182,500	182,500	200,000	200,000
	Wetlands Management Zone Effectiveness Monitoring (Study Design in FY20/21 by CMER Sci)	CWA	0	0	0	0	100,000	0	0	0	360,000	0	360,000	0
	Wetlands Intensive Monitoring	CWA												
	Road Sub-Basin-Scale Effectiveness Monitoring -- Resample (Re-scoping)	CWA												
	Watershed Scale Assessment of Cumulative Effects (roads and riparian) -- *post* Effectiveness Monitoring	CWA												
	EMEP - for going through ISPR review.		11,306	1,000		10,306								
	LiDAR for Unstable Slopes and ENREP work							198,644						
	Type Np Hard Rock Phase III - Amphibian Demographics							142,800		304,500		300,300		82,950
	AMP Research Expenses (Lines 6 to 53)		3,504,790	3,026,219	2,880,723	3,359,294	3,980,207	3,893,997	4,503,809	4,238,281	5,084,137	4,363,669	4,552,585	3,887,528
	Projected Available Funds for Research (Rev. minus Partic Grants and Indirect)		4,138,725	4,138,725	4,157,964	4,157,964	4,138,725	4,138,725	4,157,964	4,157,964	4,138,725	4,138,725	4,157,964	4,157,964
	Rollover funds from previous FY (1st FY to 2nd FY)		0	0	633,935	1,112,505	0	0	158,518	244,728	0	0	(945,412)	(224,944)
	Balance at the end of Fiscal Year (Funds + FY1 Rollover - Expenses)		633,935	1,112,505	1,911,175	1,911,175	158,518	244,728	(187,328)	164,410	(945,412)	(224,944)	(1,340,034)	45,492
	REVENUE													
Revenue	~~GF-S - AMP Carry Forward (i.e. base admin funding)~~		271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156
	~~GF-S - AMP Research (1,870,000 +/- 40,000)~~		1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000
	~~FFSA - AMP (Business and Occupation Tax surcharge)~~		5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000
	Subtotal of Revenue		7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156
	EXPENSES													
	TFW Participation Agreements													
	Tribal Participation Agreements		2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
	NGO and County Participation Grants		537,332	537,332	518,093	518,093	537,332	537,332	518,093	518,093	537,332	537,332	518,093	518,093
	State Agencies		367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990
	FFSA DAHP (Dept. Archeology & Historic Preservation)		94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500
Need to s	FFSA DNR Indirect		166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610
	Subtotal of TFW Participation Agreements, DAHP, and indirect		3,666,432	3,666,432	3,647,193	3,647,193	3,666,432	3,666,432	3,647,193	3,647,193	3,666,432	3,666,432	3,647,193	3,647,193
	PROGRAM TOTALS													
	Revenue		7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156
	AMP Research Expenses		3,504,790	3,026,219	2,880,723	3,359,294	3,980,207	3,893,997	4,503,809	4,238,281	5,084,137	4,363,669	4,552,585	3,887,528
	TFW Participation Agreements and Indirect		3,666,432	3,666,432	3,647,193	3,647,193	3,666,432	3,666,432	3,647,193	3,647,193	3,666,432	3,666,432	3,647,193	3,647,193
	Balance at the end of each fiscal year		633,935	1,112,505	1,277,241	798,670	158,518	244,728	(345,846)	(80,318)	(945,412)	(224,944)	(394,621)	270,436
	Cumulative Balance at end of Biennium				1,911,175	1,911,175			(187,328)	164,410			(1,340,034)	45,492

Expenditure	FY2026	Revised FY2026	FY2027	Revised FY2027	FY2028	Revised FY2028	FY2029	Revised FY2029	FY2030	Revised FY2030	FY2031	Revised FY2031	FY2032	Revised FY2032	FY2033	Revised FY2033	FY2034	Revised FY2034	FY2035	Revised FY2035
Administration and Program Staff																				
Program Administration (AMPA and Contract Specialist)	353,684	353,684	353,684	353,684	360,758	360,758	360,758	360,758	367,973	367,973	367,973	367,973	375,332	375,332	375,332	375,332	382,839	382,839	382,839	382,839
Administrative Assistant *(supports TFW Policy & CMER)*	100,191	100,191	100,191	100,191	102,194	102,194	102,194	102,194	104,238	104,238	104,238	104,238	106,323	106,323	106,323	106,323	108,449	108,449	108,449	108,449
Project Support (3.75 Project Managers)	641,094	641,094	641,094	641,094	653,916	653,916	653,916	653,916	666,995	666,995	666,995	666,995	680,335	680,335	680,335	680,335	693,941	693,941	693,941	693,941
CMER Scientists (4 at NWIFC: Ecologist, Geologist, Riparian, Wetlands)	735,467	735,467	733,181	748,338	747,845	761,434	747,845	774,759	762,802	788,317	762,802	802,113	778,058	816,150	778,058	830,433	793,619	844,965	793,619	859,752
CMER Scientist Eastside (NRS 4)	184,255	184,255	184,255	184,255	187,940	187,940	187,940	187,940	191,699	191,699	191,699	191,699	195,533	195,533	195,533	195,533	199,443	199,443	199,443	199,443
Independent Scientific Peer-Review	73,759	73,759	73,759	73,759	75,972	75,972	75,972	75,972	78,251	78,251	78,251	78,251	80,599	80,599	80,599	80,599	83,016	83,016	83,016	83,016
Information Management System Updates	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
CMER Conference (Facility, refreshments, programs)	10,000	10,000			10,000	10,000			10,000	10,000										
Contingency Fund for Projects	100,000	100,000	0	0	100,000	100,000	0	0	100,000	100,000	0	0	100,000	100,000	0	0	100,000	100,000	0	0
Research and Monitoring Projects																				
Unstable Slopes Criteria - Management Susceptibility Modeling	75,000	75,000	25,000	25,000																
Eastside Type N Riparian Effectiveness (ENREP)	550,511	550,511	289,904	289,904	93,550	93,550														
Westside Type F Riparian Prescription Monitoring	136,318	375,020	127,289	245,860	21,600	134,660	20,000	375,020		297,860		21,600								
Road Prescription-Scale Effectiveness Monitoring	486,980	486,980	291,000	291,000	75,000	75,000	25,000	25,000												
Deep Seated Research Strategy -- Groundwater Modeling	25,000	25,000																		
Deep Seated Research Strategy -- Physical Modeling	100,000	100,000	175,000	175,000	175,000	175,000	25,000	25,000												
Deep Seated Research Strategy -- Landslide Monitoring	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000												
Amphibians in discontinuously flowing Np reaches	360,000	250,000	75,000	360,000	25,000	360,000		360,000		250,000		0		25,000						
Forested Wetlands Effectiveness Study	150,000	150,000	150,000	150,000	200,000	200,000	0	0	0	0										
Wetlands Management Zone Effectiveness Monitoring (Study Design in FY20/21 by CMER Sci)	360,000	100,000	360,000	0	100,000	360,000	450,000	360,000		360,000		360,000		100,000		45,000				
Wetlands Intensive Monitoring							50,000	50,000	200,000	200,000	200,000	200,000	200,000	200,000						
Road Sub-Basin-Scale Effectiveness Monitoring -- Resample (Re-scoping)							75,000	75,000	250,000	250,000	250,000	250,000	250,000	250,000						
Watershed Scale Assessment of Cumulative Effects (roads and riparian) -- *post* Effectiveness Monitoring	5,000	0	50,000	0	340,000	0	340,000	50,000		340,000		340,000		340,000		340,000		340,000		100000
Type Np Hard Rock Phase III - Amphibian Demographics		0																		
AMP Research Expenses (Lines 6 to 53)	4,476,259	4,339,961	3,658,357	3,667,085	3,297,775	3,679,424	3,142,625	3,504,559	2,735,957	4,009,333	2,625,957	3,386,868	2,770,179	3,273,271	2,220,179	2,657,554	2,365,309	2,756,655	2,265,309	2,431,441
Projected Available Funds for Research (Rev. minus Partic Grants and Indirect)	4,138,725	4,138,725	4,157,964	4,157,964	4,138,725	4,138,725	4,157,964	4,157,964	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656	4,068,656
Rollover funds from previous FY (1st FY to 2nd FY)	0	0	(337,535)	(201,236)	0	0	840,949	459,300	0	0	1,332,699	59,323	0	0	1,298,477	795,385	0	0	1,703,347	1,312,001
Balance at the end of Fiscal Year (Funds + FY1 Rollover - Expenses)	(337,535)	(201,236)	162,071	289,642	840,949	459,300	1,856,288	1,112,705	1,332,699	59,323	2,775,397	741,111	1,298,477	795,385	3,146,954	2,206,487	1,703,347	1,312,001	3,506,695	2,949,216
REVENUE																				
~~GF-S - AMP Carry Forward (i.e. base admin funding)~~	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156	271,156
~~GF-S - AMP Research (1,870,000 +/- 40,000)~~	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000	1,857,000
~~FFSA - AMP (Business and Occupation Tax surcharge)~~	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000
Subtotal of Revenue	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156
EXPENSES																				
Tribal Participation Agreements	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
NGO and County Participation Grants	537,332	537,332	518,093	518,093	537,332	537,332	518,093	518,093	537,332	537,332	518,093	518,093	537,332	537,332	518,093	518,093	537,332	537,332	518,093	518,093
State Agencies	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990	367,990
FFSA DAHP (Dept. Archeology & Historic Preservation)	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500
FFSA DNR Indirect	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610	166,610
Subtotal of TFW Participation Agreements, DAHP, and indirect	3,666,432	3,666,432	3,647,193	3,647,193	3,666,432	3,666,432	3,647,193	3,647,193	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500
PROGRAM TOTALS																				
Revenue	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156	7,805,156
AMP Research Expenses	4,473,973	4,339,961	3,658,357	3,667,085	3,297,775	3,679,424	3,142,625	3,504,559	2,735,957	4,009,333	2,625,957	3,386,868	2,770,179	3,273,271	2,220,179	2,657,554	2,365,309	2,756,655	2,265,309	2,431,441
TFW Participation Agreements and Indirect	3,666,432	3,666,432	3,647,193	3,647,193	3,666,432	3,666,432	3,647,193	3,647,193	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500
Balance at the end of each fiscal year	(335,249)	(201,236)	499,606	490,879	840,949	459,300	1,015,338	653,404	1,332,699	59,323	1,442,699	681,788	1,298,477	795,385	1,848,477	1,411,102	1,703,347	1,312,001	1,803,347	1,637,215
Cumulative Balance at end of Biennium			164,358	289,642			1,856,288	1,112,705			2,775,397	741,111			3,146,954	2,206,487			3,506,695	2,949,216

Biennial Reduction in MPS Required 1,911,175

Balance 0

Summary of Scenario 2:

Specific to this scenario:

1) Hires one CMER staff in 2022, and the other in 2026.
2) Westside Type F moved out three years.
4) WMZ study scoped by WetSAG then delayed for four years.
6) Add Hard Rock Phase III Amphibian Demographics two-year option to FY22-23.

Common to all scenarios:

1) Amphibians in discontinuously flowing Np reaches scoped then held for 3 years.
2) Purchase LiDAR for DSL and ENREP studies in FY22-23 biennium.
3) Wetlands Intensive Monitoring moved out to 2029.
4) Road Sub-Basin-Scale Effectiveness Monitoring moved out to 2029.
5) Watershed Scale Assessment of Cumulative Effects moved out to 2029.

Master Project Schedule and Budget for the Adaptive Management Program

Originally approved by the Forest Practices Board - 09 May 2019 (with Amendments)

Modified and approved by Board - 13 May 2020

Adjustments and proposed revisions post 05/13/2020 are shown in "revised columns" (version date: 00/00/00)

Note: This spreadsheet only shows values and timelines in the May 2020 Board Approved MPS.

Revision Reason

Began adding

Expenditure	Origin	FY2020	Revised FY2020	FY2021	Revised FY2021	FY2022	Revised FY2022	FY2023	Revised FY2023	FY2024	Revised FY2024	FY2025	Revised FY2025	FY2026	Revised FY2026	FY2027	Revised FY2027	FY2028	Revised FY2028	FY2029	Revised FY2029	FY2030	Revised FY2030	FY2031	Revised FY2031	FY2032	Revised FY2032	FY2033	Revised FY2033	FY2034	Revised FY2034	FY2035	Revised FY2035
Administration and Program Staff																																	
Program Administration (AMPA and Contract Specialist)		254,600		254,600		262,200		339,950		346,749		346,749		353,684		353,684		360,758		360,758		367,973		367,973		375,332		375,332		382,839		382,839	
Administrative Assistant *(supports TFW Policy & CMER)*		56,100		93,300		96,300		96,300		98,226		98,226		100,191		100,191		102,194		102,194		104,238		104,238		106,323		106,323		108,449		108,449	
Project Support (3.75 Project Managers)		489,700		598,300		616,200		616,200		628,524		628,524		641,094		641,094		653,916		653,916		666,995		666,995		680,335		680,335		693,941		693,941	
CMER Scientists (4 at NWIFC: Ecologist, Geologist, Riparian, Wetlands)		498,275		350,255		664,078		704,711		718,805		718,805		733,181		733,181		747,845		747,845		762,802		762,802		778,058		778,058		793,619		793,619	
CMER Scientist Eastside (NRS 4)		94,600		167,000		177,100		177,100		180,642		180,642		184,255		184,255		187,940		187,940		191,699		191,699		195,533		195,533		199,443		199,443	
Independent Scientific Peer-Review		95,874		67,500		69,525		69,525		71,611		71,611		73,759		73,759		75,972		75,972		78,251		78,251		80,599		80,599		83,016		83,016	
Information Management System Updates		0		4,000		4,000		4,000		4,000		4,000		4,000		4,000		4,000		4,000		4,000		4,000		4,000		4,000		4,000		4,000	
CMER Conference (Facility, refreshments, programs)		0		0		0		5,000		10,000				10,000				10,000				10,000											
Contingency Fund for Projects		40,000		27,235		100,000		0		100,000		0		100,000		0		100,000		0		100,000		0		100,000		0		100,000		0	
TFW Policy Committee Facilitation (on-call contract)		0		0																													
Technical Editor (on-call contract)		0																															
Policy Committee Non-CMER Initiatives																																	
Type Np Workgroup (Collaborative Research Allowance, Direct Buy, & Enhanced Participation Grants)		117,000		7,400																													
AMP Principals Facilitation (Center for Conservation Peacebuilding)		150,000		0																													
Research and Monitoring Projects																																	
Hard Rock Lithology- Type N Experimental Buffer Treatment Project - Temperature Monitoring (Report extended		124,175		28,884																													
Hard Rock Lithology- Type N Experimental Buffer Treatment Project - Extended Amphibian (Analysis & Summary		36,715		34,848		15,000																											
Soft Rock Litholoy -Type N Experimental Buffer Treatment Project - (1) Monitoring ends fall 2017, 2-yr post-harvest	CWA	20,000		0																													
Soft Rock Litholoy -Type N Experimental Buffer Treatment Project - Extended monitoring through 2020 (FY21)		139,000		151,000																													
Extensive Riparian Status and Trends Monitoring -- Vegetation, Type F/N - Westside (Remote Sensing)		19,000		0																													
Unstable Slopes Criteria - Object-based Landform Mapping	CWA	8,840		0		28,450		0																									
Unstable Slopes Criteria - Shallow Landslide Susceptibility	CWA	0		0		50,000		150,000		78,960		25,000																					
Unstable Slopes Criteria - Shallow Landslide Runout	CWA			0				50,000		100,000		25,000																					
Unstable Slopes Criteria - Management Susceptibility Modeling	CWA							0		25,000		100,000		75,000		25,000																	
Eastside Type N Riparian Effectiveness (ENREP)	CWA	696,376		632,481		687,717		702,035		737,632		590,730		550,511		289,904		93,550															
Westside Type F Riparian Prescription Monitoring	CWA	125,000		0		78,702		136,318		136,318		136,318		136,318		127,289		21,600		20,000													
Road Prescription-Scale Effectiveness Monitoring	CWA	402,204		428,920		521,980		546,980		506,980		486,980		486,980		291,000		75,000		25,000													
Deep Seated Research Strategy -- Mapping Objectives		0		0		100,000		60,000		25,000																							
Deep Seated Research Strategy -- Pilot Classification		0		0		40,000		25,000		50,000																							
Deep Seated Research Strategy -- Toolkit Development						25,000																											
Deep Seated Research Strategy -- Groundwater Modeling						0		50,000		100,000		125,000		25,000																			
Deep Seated Research Strategy -- Physical Modeling						0		75,000		50,000		50,000		100,000		175,000		175,000		25,000													
Deep Seated Research Strategy -- Landslide Monitoring						0		25,000		25,000		25,000		25,000		25,000		25,000		25,000													
Amphibians in Intermittent Streams	CWA	10,000		35,000		80,000		250,000		360,000		360,000		360,000		75,000		25,000															
Eastside Timber Harvest Types Evaluation Project (ETHEP)		0		0																													
Water Typing Strategy (PHB Validation, Physicals, LIDAR Model Map)	FPB	75,000		0																													
Fish/Habitat Detection using eDNA -- re-scoped to pilot project		0		0																													
Riparian Literature Synthesis Project				0																													
Wetlands Instrinsic Potential (WIP) Tool		10,773																															
Literature Review -- Forested Wetlands (Updated; WetSAG)		11,439																															
Riparian Characteristics and Shade Response		10,875		0		98,955		188,190		188,190		20,000																					
Forested Wetlands Effectiveness Study	CWA	7,938		0		165,000		232,500		182,500		200,000		150,000		150,000		200,000		0		0											
Wetlands Management Zone Effectiveness Monitoring (Study Design in FY20/21 by CMER Sci)	CWA	0		0		100,000		0		360,000		360,000		360,000		360,000		100,000		450,000													
Wetlands Intensive Monitoring	CWA													0		0		0		50,000		200,000		200,000		200,000							
Road Sub-Basin-Scale Effectiveness Monitoring -- Resample (Re-scoping)	CWA																			75,000		250,000		250,000		250,000							
Watershed Scale Assessment of Cumulative Effects (roads and riparian) -- *post* Effectiveness Monitoring	CWA													5,000		50,000		340,000		340,000													
EMEP - for going through ISPR review.		11,306																															
~~RMAP checklist survey~~		0		0																													
AMP Research Expenses (Lines 6 to 53)		3,504,790		2,880,723		3,980,207		4,503,809		5,084,137		4,552,585		4,473,973		3,658,357		3,297,775		3,142,625		2,735,957		2,625,957		2,770,179		2,220,179		2,365,309		2,265,309	
Projected Available Funds for Research (Rev. minus Partic Grants and Indirect)		4,138,725		4,157,964		4,138,725		4,157,964		4,138,725		4,157,964		4,138,725		4,157,964		4,138,725		4,157,964		4,068,656		4,068,656		4,068,656		4,068,656		4,068,656		4,068,656	
Rollover funds from previous FY (1st FY to 2nd FY)		0		633,935		0		158,518		0		(945,412)		0		(335,249)		0		840,949		0		1,332,699		0		1,298,477		0		1,703,347	
Balance at the end of Fiscal Year *(Funds + FY1 Rollover - Expenses)*		633,935		1,911,175		158,518		(187,328)		(945,412)		(1,340,034)		(335,249)		164,358		840,949		1,856,288		1,332,699		2,775,397		1,298,477		3,146,954		1,703,347		3,506,695	
REVENUE																																	
~~GF-S -- AMP Carry Forward (i.e. base admin funding)~~		271,156		271,156		271,156		271,156		271,156		271,156		271,156		271,156		271,156		271,156		271,156		271,156		271,156		271,156		271,156		271,156	
~~GF-S -- AMP Research (1,870,000 +/- 10.00)~~		1,857,000		1,857,000		1,857,000		1,857,000		1,857,000		1,857,000		1,857,000		1,857,000		1,857,000		1,857,000		1,857,000		1,857,000		1,857,000		1,857,000		1,857,000		1,857,000	
~~FFSA -- AMP (Reserves and Occupation Tax surcharge)~~		5,677,000		5,677,000		5,677,000		5,677,000		5,677,000		5,677,000		5,677,000		5,677,000		5,677,000		5,677,000		5,677,000		5,677,000		5,677,000		5,677,000		5,677,000		5,677,000	
Subtotal of Revenue		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156	
EXPENSES																																	
TFW Participation Agreements																																	
Tribal Participation Agreements		2,500,000		2,500,000		2,500,000		2,500,000		2,500,000		2,500,000		2,500,000		2,500,000		2,500,000		2,500,000		2,500,000		2,500,000		2,500,000		2,500,000		2,500,000		2,500,000	
NGO and County Participation Grants		537,332		518,093		537,332		518,093		537,332		518,093		537,332		518,093		537,332		518,093		537,332		518,093		537,332		518,093		537,332		518,093	
State Agencies		367,990		367,990		367,990		367,990		367,990		367,990		367,990		367,990		367,990		367,990		367,990		367,990		367,990		367,990		367,990		367,990	
FFSA DAHP (Dept. Archeology & Historic Preservation)		94,500		94,500		94,500		94,500		94,500		94,500		94,500		94,500		94,500		94,500		94,500		94,500		94,500		94,500		94,500		94,500	
FFSA DNR Indirect		166,610		166,610		166,610		166,610		166,610		166,610		166,610		166,610		166,610		166,610		166,610		166,610		166,610		166,610		166,610		166,610	
Subtotal of TFW Participation Agreements, DAHP, and indirect		3,666,432		3,647,193		3,666,432		3,647,193		3,666,432		3,647,193		3,666,432		3,647,193		3,666,432		3,647,193		3,736,500		3,736,500		3,736,500		3,736,500		3,736,500		3,736,500	
PROGRAM TOTALS																																	
Revenue		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156		7,805,156	
AMP Research Expenses		3,504,790		2,880,723		3,980,207		4,503,809		5,084,137		4,552,585		4,473,973		3,658,357		3,297,775		3,142,625		2,735,957		2,625,957		2,770,179		2,220,179		2,365,309		2,265,309	
TFW Participation Agreements and Indirect		3,666,432		3,647,193		3,666,432		3,647,193		3,666,432		3,647,193		3,666,432		3,647,193		3,666,432		3,647,193		3,736,500		3,736,500		3,736,500		3,736,500		3,736,500		3,736,500	
Balance at the end of each fiscal year		633,935		1,277,241		158,518		(345,846)		(945,412)		(394,621)		(335,249)		499,606		840,949		1,015,338		1,332,699		1,442,699		1,298,477		1,848,477		1,803,347	
Cumulative Balance at end of Biennium				1,911,175				(187,328)				(1,340,034)				164,358				1,856,288				2,775,397				3,146,954				3,506,695	

Biennial Reduction in MPS Required 1,911,175

Balance (1,911,175)

Administrator Notes:

1. Need to get updated revenue numbers to move from managing to a cut target of 1,911,175 to managing a budget.
2. Need to agree on COLA rate assumptions for staff.
3. We will need to work to balance the out-years beginning with this next biennium. Likely cuts and delays going into future include:
   a) Not filling one of the two CMER staff vacancies at the NWIFC.
   b) Not moving forward with the Amphibians in seasonally flowing waters study.
   c) Delyaing the Wetland Management Zone study.
4. ETHEP will eventually need implementation funds and this will add to the future deficit.

Cost by Number of CMER Science Staff

Based on point estimates from Jenelle Black, NWIFC, 06/08/20220
Budgets include COLAs and vehicle lease replacements
Red Font values match those provided by NWIFC others are extrapolated

Approaches used to extrapolate NWIFC budget values:
1.75% per year added for extrapolation in out years
Estimates do not all accout for possible COLA and other costs
Linear extrapoloation between NWIFC point values provided
Doubled cost of adding one staff if two are being estimated (i.e., 144,872 for one added in FY22)

Scenarios with the two vacancies

	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27
1) Add one FY22 and other FY23*	496,581	350,254	495,126	588,698	682,270	715,928	735,467	748,338
2) One filled FY22 and other FY24	496,581	350,254	495,126	521,001	682,270	715,928	735,467	748,338
3) Add one FY23 and other FY24*	496,581	350,254	356,256	519,263	682,270	715,928	735,467	748,338
4) One added FY22 and other FY26	496,581	350,254	495,126	521,001	554,355	579,844	735,467	748,338
5) One added FY24 and other FY25*	496,581	350,254	356,256	374,203	489,676	605,150	735,467	748,338
5) Both vacancies filled FY26	496,581	350,254	356,256	374,203	386,817	402,353	720,623	733,234
6) No new staff added	496,581	350,254	356,256	374,203	386,817	402,353	409,394	416,558
7) Both filled FY22	496,581	350,254	588,698	639,998	682,270	715,928	735,467	748,338

*Based on interpolation between points where staff were added in the original 3 scenarios provided by NWIFC.
This should place estimates in the range of what will occur, but we should confirm once an options is selected.

SCENARIO A
COLA: 3.4% in FY20, 0% in FY21-FY22; 3.5% other
WS: FY22
RE: FY26
2nd GSA vehicle FY24-FY27

SCENARIO B
COLA: 3.4% in FY20, 0% in FY21-FY22; 3.5% other
WS: FY26
RE: FY26
2nd GSA vehicle FY26-FY27

SCENARIO C
COLA: 3.4% in FY20, 0% in FY21-FY22; 3.5% other
WS: FY22
RE: FY24
2nd GSA vehicle FY24-FY27

SUMMARY FY20-FY21

NWIFC CMER	FY20	FY21	Total
Salaries	$255,446	$174,242	**$429,688**
Benefits	$58,798	$42,947	**$101,746**
Travel	$9,800	$9,100	**$18,900**
Training	$1,200	$2,400	**$3,600**
Vehicle	$7,200	$8,000	**$15,200**
Equipment/Su	$19,520	$12,000	**$31,520**
Direct	**$351,965**	**$248,689**	**$600,654**
Indirect	$144,616	$101,565	**$246,181**
Total	**$496,581**	**$350,254**	**$846,835**

FY20	FY21	Total
$255,446	$174,242	**$429,688**
$58,798	$42,947	**$101,746**
$9,800	$9,100	**$18,900**
$1,200	$2,400	**$3,600**
$7,200	$8,000	**$15,200**
$19,520	$12,000	**$31,520**
$351,965	**$248,689**	**$600,654**
$144,616	$101,565	**$246,181**
$496,581	**$350,254**	**$846,835**

FY20	FY21	Total
$255,446	$174,242	**$429,688**
$58,798	$42,947	**$101,746**
$9,800	$9,100	**$18,900**
$1,200	$2,400	**$3,600**
$7,200	$8,000	**$15,200**
$19,520	$12,000	**$31,520**
$351,965	**$248,689**	**$600,654**
$144,616	$101,565	**$246,181**
$496,581	**$350,254**	**$846,835**

SUMMARY FY22-FY23

NWIFC CMER	FY22	FY23	Total
Salaries	$250,095	$264,688	**$514,782**
Benefits	$62,657	$66,317	**$128,973**
Travel	$14,400	$14,400	**$28,800**
Training	$3,600	$3,600	**$7,200**
Vehicle	$8,000	$8,000	**$16,000**
Equipment/Su	$12,500	$12,500	**$25,000**
Direct	**$351,252**	**$369,504**	**$720,756**
Indirect	$143,874	$151,497	**$295,371**
Total	**$495,126**	**$521,001**	**$1,016,126**

FY22	FY23	Total
$176,668	$186,821	**$363,489**
$43,566	$46,071	**$89,637**
$9,600	$9,600	**$19,200**
$2,400	$2,400	**$4,800**
$8,000	$8,000	**$16,000**
$12,500	$12,500	**$25,000**
$252,735	**$265,392**	**$518,127**
$103,521	$108,811	**$212,332**
$356,256	**$374,203**	**$730,459**

FY22	FY23	Total
$250,095	$264,688	**$514,782**
$62,657	$66,317	**$128,973**
$14,400	$14,400	**$28,800**
$3,600	$3,600	**$7,200**
$8,000	$8,000	**$16,000**
$12,500	$12,500	**$25,000**
$351,252	**$369,504**	**$720,756**
$143,874	$151,497	**$295,371**
$495,126	**$521,001**	**$1,016,126**

SUMMARY FY24-FY25

NWIFC CMER	FY24	FY25	Total
Salaries	$277,185	$291,612	**$568,796**
Benefits	$69,475	$73,125	**$142,600**
Travel	$14,400	$14,400	**$28,800**
Training	$3,600	$3,600	**$7,200**
Vehicle	$16,000	$16,000	**$32,000**
Equipment/Su	$12,500	$12,500	**$25,000**
Direct	**$393,160**	**$411,237**	**$804,396**
Indirect	$161,195	$168,607	**$329,803**
Total	**$554,355**	**$579,844**	**$1,134,199**

FY24	FY25	Total
$193,993	$202,818	**$396,811**
$47,845	$50,039	**$97,884**
$9,600	$9,600	**$19,200**
$2,400	$2,400	**$4,800**
$8,000	$8,000	**$16,000**
$12,500	$12,500	**$25,000**
$274,338	**$285,357**	**$559,695**
$112,479	$116,996	**$229,475**
$386,817	**$402,353**	**$789,169**

FY24	FY25	Total
$344,422	$363,448	**$707,871**
$86,957	$91,803	**$178,759**
$19,200	$19,200	**$38,400**
$4,800	$4,800	**$9,600**
$16,000	$16,000	**$32,000**
$12,500	$12,500	**$25,000**
$483,879	**$507,751**	**$991,630**
$198,391	$208,178	**$406,568**
$682,270	**$715,928**	**$1,398,198**

SUMMARY FY26-FY27

NWIFC CMER	FY26	FY27	Total
Salaries	$374,524	$395,099	**$769,623**
Benefits	$94,585	$99,826	**$194,410**
Travel	$19,200	$19,200	**$38,400**
Training	$4,800	$4,800	**$9,600**
Vehicle	$16,000	$16,000	**$32,000**
Equipment/Su	$12,500	$12,500	**$25,000**
Direct	**$521,608**	**$547,425**	**$1,069,033**
Indirect	$213,859	$224,444	**$438,303**
Total	**$735,467**	**$771,869**	**$1,507,336**

FY26	FY27	Total
$366,168	$386,452	**$752,620**
$92,412	$97,577	**$189,990**
$19,200	$19,200	**$38,400**
$4,800	$4,800	**$9,600**
$16,000	$16,000	**$32,000**
$12,500	$12,500	**$25,000**
$511,080	**$536,530**	**$1,047,610**
$209,543	$219,977	**$429,520**
$720,623	**$756,507**	**$1,477,130**

FY26	FY27	Total
$379,170	$397,503	**$776,673**
$95,792	$100,451	**$196,243**
$19,200	$19,200	**$38,400**
$4,800	$4,800	**$9,600**
$16,000	$16,000	**$32,000**
$12,500	$12,500	**$25,000**
$527,462	**$550,453**	**$1,077,916**
$216,259	$225,686	**$441,945**
$743,722	**$776,139**	**$1,519,861**