

COLORADO RIVER RECOVERY PROGRAM
Performance Period FY2013-FY2017

Project No.: 126b & 167b

Federal Agreement Assistance Number R13AP40028

FY2016-20 PROPOSED SCOPE OF WORK (SOW) for:

Colorado River & White River supplemental lethal removal of smallmouth bass and northern pike

Lead Agency: Colorado Parks and Wildlife
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<u>Category:</u>	<u>Expected Funding Source:</u>
<input type="checkbox"/> Ongoing project	<input checked="" type="checkbox"/> Annual funds
<input checked="" type="checkbox"/> Ongoing-revised project	<input type="checkbox"/> Capital funds
<input type="checkbox"/> Requested new project	<input type="checkbox"/> Other (explain)
<input type="checkbox"/> Unsolicited proposal	

I. Title of Proposal:

Supplemental lethal removal of smallmouth bass and northern pike in the Colorado River between Silt and Beavertail Mountain with expanded removal above Rifle Creek and in constructed ponds; smallmouth bass control in the White River.

II. Relationship to RIPRAP:

General Recovery Program Support Action Plan

- III. Reduce negative impacts of nonnative fishes and sportfish management activities (nonnative and sportfish management).
- III.A. Reduce negative interactions between nonnative and endangered fishes.
- III.A.2. Identify and implement viable active control measures.

Colorado River Action Plan: Mainstem

- III. Reduce negative impacts of nonnative fishes and sportfish management activities.
- III.A. Develop and implement control programs in reaches of the Colorado River occupied by endangered fishes

Green River Action Plan: White River

- III. Reduce negative impacts of nonnative fishes and sportfish management activities (nonnative and sportfish management).
- III.A. Reduce negative interactions between nonnative and endangered fishes.
- III.B.2. Preclude new nonnative species introductions, translocations or invasions to preserve native species dominance within critical habitat.

III. Study Background/Rationale and Hypotheses:

Study Background/Rationale:

Colorado River: The USFWS (Burdick 2007, 2011) has previously documented the need for smallmouth bass and northern pike removal in the Colorado River. This study will supplement the USFWS efforts within the same USFWS study area by adding additional removal passes within the smallmouth bass and northern pike concentration areas identified by Burdick (2007 and 2011).

White River: For an in depth discussion of this topic please see SOW 167. Colorado Parks and Wildlife (CPW) has been asked to provide three weeks of assistance to remove smallmouth bass from the White River in support of FWS crews performing SOW 167.

IV. Study Goals, Objectives, End Product:

Study Goals

- 1) To assist the USFWS in reducing the number of smallmouth bass and northern pike in 52.3 river miles between Silt (RM 248.0), Colorado and Beavertail Mountain (RM 195.7) thereby benefiting natives fishes of the Colorado River Basin
- 2) To reduce smallmouth bass numbers in the White River to minimize their potential to affect other fishes.

Study Objectives:

- 1) To remove as many smallmouth bass and northern pike as possible between Silt and Beavertail Mountain from the Colorado River via one full removal pass. An additional 2 days may be allocated for removal in areas identified during the first pass as high concentration areas.

- 2) To locate and remove smallmouth bass and northern pike residing in floodplain gravel pits and ponds that may reconnect to the Colorado River during high water periods.
- 3) Acquire permission from landowners to sample the four south bank Colorado River notched gravel pits upstream of the I-70 Rifle exit bridge to document species composition and relative abundance.
- 4) To remove smallmouth bass from the White River from Taylor Draw Dam (RM 104) downstream to the Utah state line over a ten day period, with effort concentrated in the approximately 10 miles immediately below Taylor Draw dam where greatest numbers of smallmouth bass have been observed.

End Product:

In compiling and organizing the data collected, CPW will follow quality assurance and quality control protocols provided annually by the Program Director's Office and/or the USFWS data management lead. All of CPW validated data will be provided to the USFWS leads (Tildon Jones and Dale Ryden). CPW will not perform data analysis for this supplemental project; all data collected will be analyzed by the USFWS.

V. Study Areas:

The study areas for this supplemental project will focus on:

- 1) The 52.3 mile reach between Silt (RM 248.0) and Beavertail Mountain (RM 195.7) on the Colorado River. Additional removal days will occur in reaches of the highest smallmouth bass and/or northern pike concentration and in ponds and gravel pits. The reach or reaches will be identified during the first pass. Ponds and gravel pits will be sampled by appropriate sampling techniques (electrofishing, gill, fyke and Merwin nets).
- 2) The White River within Colorado from Taylor Draw Dam (RM 104) downstream to the Utah state line.

VI. Study Methods/Approach:

Colorado River:

Capturing and removing smallmouth bass and northern pike within main channel (shorelines) and backwater habitat (when accessible) will be one focus of this supplemental sampling effort. Incidental contact with Colorado pikeminnow, razorback sucker, and/or bonytail will be handled per the protocol below. This study will occur between June and September. Seven day trips across two weeks will constitute one pass. A minimum of one pass will be completed for smallmouth bass and northern pike removal across the entire section of Silt to Beavertail. An additional 2 days may focus on areas of higher concentration of smallmouth bass and/or northern pike.

Two, two-person electrofishing crews will utilize self-bailing rafts with 15 horsepower outboard motors within each river segment to perform removal sampling in the main

channel. Each crew will simultaneously move downstream with ETS electrofishing equipment. One crew will work one side of the river, while the second crew will work the other side. No river reach will be electrofished on consecutive days, to allow for resident native fish to recover and redistribute.

Backwaters (when accessible) and where CPW has obtained permission to sample will also be included within the study. Both crews will sample backwater areas along both sides of the river. Output power will be adjusted within backwaters based upon changes in river conductivity. Additionally, output power will be reduced during the raft approach to the backwater mouth. Both processes will minimize the potential for electrofishing injuries to fish.

Each raft will process fish collected. All smallmouth bass, largemouth bass, northern pike, Colorado pikeminnow, razorback sucker, and bonytail captured will be identified and measured in total length to the nearest millimeter. Endangered fish encountered will also be weighed to the nearest gram, and scanned for the presence of PIT tags. Individuals lacking PIT tags will be implanted with a new PIT tag following the appropriate protocol; tags will be provided by the USFWS. Capture locations for endangered fish will be recorded to the nearest tenth of a river mile. UTM coordinates associated with capture locations will also be recorded, when possible. All endangered fish captured will be processed and released immediately. All smallmouth bass, largemouth bass, and northern pike collected will be lethally removed.

Four previously unsampled gravel pits upstream of the Rifle I-70 bridge will be sampled to establish species composition and relative abundance. Ponds and pits will be sampled pre-runoff with electrofishing and/or passive equipment and all nonnative fish lethally removed. This sampling will be repeated post-runoff to capture nonnative fish that might have entered the waters during runoff. The owner of the LaFarge Pit will be consulted to determine future actions for nonnative fish control in addition to the presence of a long-term Merwin trap post-runoff, to be constructed and installed (again) in 2016.

Incidental contact with other nonnative game fish except salmonid species (including centrarchids, walleye, gizzard shad, grass carp, and yellow perch) will result in lethal removal. All dead fish not provided to the Recovery Program will be disposed of in a landfill.

Water conductivity and ETS settings will also be recorded. Electrofishing effort will also be recorded by the two ETS units utilized. All data will be collected on the same forms and per the same guidelines that the USFWS will be following. All data collected by CPW will be provided to the USFWS upon completion of this supplemental study.

White River:

Smallmouth bass will be removed primarily by raft mounted ETS electrofishing units. Two electrofishing rafts will simultaneously electrofish each shoreline of the river.

Effort will be focused on shoreline habitat that is likely to contain smallmouth bass. Sampling crews will conduct removal activities in a manner that minimizes potential negative impacts to endangered fish, including discontinuing electrofishing when elevated numbers of endangered fish are known to be present. Electrofishing passes will be conducted from May to early July and will focus on the descending limb of the hydrograph when water temperatures will likely favor smallmouth bass spawning and nesting.

CPW crews will be directed to areas that support significant concentrations of spawning bass. Otoliths may be collected for analysis if so requested by the Recovery Program.

Other nonnative species encountered will be removed as feasible. All endangered fishes captured will be scanned for a PIT tag, tagged if needed, weighed (g), measured TL (mm), and released alive. Endangered fish data will then be reported to appropriate principal investigators and included in annual reporting. Lethally removed fish will be disposed of in a county landfill.

VII. Task Description and Schedule:

Task 1. Sample Colorado River study area to capture and lethally remove smallmouth bass and northern pike. (126b)

Schedule: June - September

Task 2. Organize and validate Colorado River data and submit to USFWS. (126b)

Schedule: data will be submitted by November 1.

Task 3. Acquire landowner permission to sample three notched pits/ponds on south bank upstream from the Rifle bridge; sample each for species composition and relative abundance. (126b)

Schedule: April – May; September – November.

Task 4. Sample White River to capture and lethally remove smallmouth bass. (167b)

Schedule: May-July.

Task 5. Organize and validate White River data and submit to USFWS. (167b)

Schedule: data will be submitted by October 1.

VIII. Budgets by Fiscal Year; deliverables and due dates are as described in VII above.

FY-2016 Budget

FY-2016 Budget by Task:			126b & 167b			
		Tech 1 Wage:	\$14.50			
		Tech II Wage:	\$16.40			
		Benefits:	18.8145%			
		Indirect:	31.1800%			
Task 1.						
Two Wildlife Manager III's:					Subtotals	Task Totals
	Lodging:	Each	Nights	Positions		
		\$89.00	5	2		\$890.00
	Per diem:	Each	Days	Positions		
		\$46.00	5	2		\$460.00
Labor: Three seasonal technician (Technician I)					6, 40 hr weeks	
	Hours	Salary/hr	Benefits	Indirect	Positions	
	240	\$14.50	\$655	\$1,289	3	\$16,271.87
Labor: One seasonal technician (Technician II)					6, 40 hr weeks	
	Hours	Salary/hr	Benefits	Indirect	Positions	
	240	\$16.40	\$741	\$1,458	1	\$6,134.68
	Lodging:	Each	Nights	Positions		
		\$89.00	5	4		\$1,780.00
	Per diem:	Each	Days	Positions		
		\$46.00	5	4		<u>\$920.00</u>
					Task 1 Total:	\$26,456.56
						\$26,457
Task 2.						
Labor: One seasonal technician (Technician II)					3, 40 hr weeks	
	Hours	Salary/hr	Benefits	Indirect	Positions	
	120	\$16.40	\$370	\$729	1	\$3,067.34
					Task 2 Total:	\$3,067.34
						\$3,067
Task 3.						
Labor: Three seasonal technician (Technician I)					6, 40 hr weeks	
	Hours	Salary/hr	Benefits	Indirect	Positions	
	240	\$14.50	\$655	\$1,289	2	\$10,847.92
Equipment						
Merwin Trap materials and fabrication						\$15,000.00
					Task 3 Total:	\$25,847.92
						\$25,848

Task 4.	167b add-in to 126b						
Three seasonal technicians (Technician I's):				4, 40 hour weeks			
	Hours	Salary	Benefits	Indirect	Positions		
	160	\$14.50	\$436	\$859	3	\$10,847.92	
	Lodging:	Nights	Each	Positions			
5 nights		5	\$89.00	3	\$1,335	\$1,335	
	Per diem:	Days	Each	Positions			
5 days		5	\$46.00	3	\$690	\$690.00	
Wildlife Manager III							
	Lodging:	Nights	Each	Positions			
5 nights		5	\$89.00	2	\$890	\$890.00	
	Per diem:	Days	Each	Positions			
5 days		5	\$46.00	2	\$460	\$460.00	
Maintenance of boats and trailers (includes replacement, repair and maintenance of boat and trailer parts:							
Generator motor oil and fuel; misc. parts, tools, field gear						\$1,240.00	
Task 4 Total:						\$15,462.92	\$15,463
Task 5.	167b add-in to 126b						
One seasonal technicians (Technician I):				2, 40 hour weeks			
	Hours	Salary	Benefits	Indirect	Positions		
	80	\$14.50	\$218	\$430	1	\$1,807.99	
Task 5 Total:						\$1,807.99	\$1,808
Task 1:	\$26,457						
Task 2:	\$3,067						
Task 3:	\$25,848						
Task 4:	\$15,463						
Task 5:	\$1,808						
Total:	\$72,643						

FY-2017 Budget

FY-2017 Budget by Task:			126b & 167b				
			Tech 1 Wage:	\$14.86			
2.5% wage increase			Tech II Wage:	\$16.81			
			Benefits:	18.8145%			
			Indirect:	31.1800%			
Task 1.							
Two Wildlife Manager III's:						Subtotals	Task Totals
	Lodging:	Each	Nights	Positions			
		\$95.00	5	2		\$950.00	
	Per diem:	Each	Days	Positions			
		\$46.00	5	2		\$460.00	
Labor: Three seasonal technician (Technician I)							
	Hours	Salary/hr	Benefits	Indirect	Positions		
	240	\$14.86	\$671	\$1,321	3	\$16,675.87	
Labor: One seasonal technician (Technician II)							
	Hours	Salary/hr	Benefits	Indirect	Positions		
	240	\$16.81	\$759	\$1,495	1	\$6,288.05	
	Lodging:	Each	Nights	Positions			
		\$95.00	5	4		\$1,900.00	
	Per diem:	Each	Days	Positions			
		\$46.00	5	4		\$920.00	
Task 1 Total:						\$27,193.92	\$27,194
Task 2.							
Labor: One seasonal technician (Technician II)							
	Hours	Salary/hr	Benefits	Indirect	Positions		
	120	\$16.81	\$380	\$747	1	\$3,144.03	
Task 2 Total:						\$3,144.03	\$3,144
Task 3.							
Labor: Three seasonal technician (Technician I)							
	Hours	Salary/hr	Benefits	Indirect	Positions		
	240	\$14.86	\$671	\$1,321	0	\$0.00	
Equipment							
Merwin Trap materials and fabrication							
Task 3 Total:						\$0.00	\$0
Task 4.							
167b add-in to 126b							
Three seasonal technicians (Technician I's):							
	Hours	Salary	Benefits	Indirect	Positions		
						4, 40 hour weeks	

	160	\$14.86	\$447	\$881	3	\$11,117.24	
	Lodging:	Nights	Each	Positions			
5 nights		5	\$95.00	3	\$1,425	\$1,425	
	Per diem:	Days	Each	Positions			
5 days		5	\$46.00	3	\$690	\$690.00	
Wildlife Manager III							
	Lodging:	Nights	Each	Positions			
5 nights		5	\$95.00	2	\$950	\$950.00	
	Per diem:	Days	Each	Positions			
5 days		5	\$46.00	2	\$460	\$460.00	
Maintenance of boats and trailers (includes replacement, repair and maintenance of boat and trailer parts:							
Generator motor oil and fuel; misc. parts, tools, field gear						\$1,640.00	
					Task 4 Total:	\$16,282.24	\$16,282
Task 5.	167b add-in to 126b						
One seasonal technicians (Technician I):				2, 40 hour weeks			
	Hours	Salary	Benefits	Indirect	Positions		
	80	\$14.86	\$224	\$440	1	\$1,852.87	
					Task 5 Total:	\$1,852.87	\$1,853
Task 1:	\$27,194						
Task 2:	\$3,144						
Task 3:	\$0						
Task 4:	\$16,282						
Task 5:	\$1,853						
Total:	\$48,473						

FY-2018 Budget

FY-2018 Budget by Task:			126b & 167b				
			Tech 1 Wage:	\$15.23			
2.5% wage increase			Tech II Wage:	\$17.23			
			Benefits:	18.8145%			
			Indirect:	31.1800%			
Task 1.							
Two Wildlife Manager IIIs:					Subtotals	Task Totals	
	Lodging:	Each	Nights	Positions			
		\$95.00	5	2		\$950.00	
	Per diem:	Each	Days	Positions			
		\$46.00	5	2		\$460.00	
Labor: Three seasonal technician (Technician I)							
	Hours	Salary/hr	Benefits	Indirect	Positions		
	240	\$15.23	\$688	\$1,354	3	\$17,091.08	
Labor: One seasonal technician (Technician II)							
	Hours	Salary/hr	Benefits	Indirect	Positions		
	240	\$17.23	\$778	\$1,532	1	\$6,445.16	
	Lodging:	Each	Nights	Positions			
		\$95.00	5	4		\$1,900.00	
	Per diem:	Each	Days	Positions			
		\$46.00	5	4		\$920.00	
					Task 1 Total:	\$27,766.24	\$27,766
Task 2.							
Labor: One seasonal technician (Technician II)							
	Hours	Salary/hr	Benefits	Indirect	Positions		
	120	\$17.23	\$389	\$766	1	\$3,222.58	
					Task 2 Total:	\$3,222.58	\$3,223
Task 3.							
Labor: Three seasonal technician (Technician I)							
	Hours	Salary/hr	Benefits	Indirect	Positions		
	240	\$15.23	\$688	\$1,354	0	\$0.00	
Equipment							
Merwin Trap materials and fabrication							
					Task 3 Total:	\$0.00	\$0
Task 4.							
167b add-in to 126b							
Three seasonal technicians (Technician I's):							
	Hours	Salary	Benefits	Indirect	Positions		
					4, 40 hour weeks		

	160	\$15.23	\$458	\$903	3	\$11,394.05	
	Lodging:	Nights	Each	Positions			
5 nights		5	\$95.00	3	\$1,425	\$1,425	
	Per diem:	Days	Each	Positions			
5 days		5	\$46.00	3	\$690	\$690.00	
Wildlife Manager III							
	Lodging:	Nights	Each	Positions			
5 nights		5	\$95.00	2	\$950	\$950.00	
	Per diem:	Days	Each	Positions			
5 days		5	\$46.00	2	\$460	\$460.00	
Maintenance of boats and trailers (includes replacement,							
repair and maintenance of boat and trailer parts:							
Generator motor oil and fuel; misc. parts, tools, field gear						\$2,040.00	
Task 4 Total:						\$16,959.05	\$16,959
Task 5.	167b add-in to 126b						
One seasonal technicians (Technician I):				2, 40 hour weeks			
	Hours	Salary	Benefits	Indirect	Positions		
	80	\$15.23	\$229	\$451	1	\$1,899.01	
Task 5 Total:						\$1,899.01	\$1,899
Task 1:	\$27,766						
Task 2:	\$3,223						
Task 3:	\$0						
Task 4:	\$16,959						
Task 5:	\$1,899						
Total:	\$49,847						

FY 2019 Budget

FY-2019 Budget by Task:				126b & 167b			
		Tech 1 Wage:		\$15.61			
2.5% wage increase		Tech II Wage:		\$17.66			
		Benefits:		18.8145%			
		Indirect:		31.1800%			
Task 1.							
Two Wildlife Manager III's:						Subtotals	Task Totals
	Lodging:	Each	Nights	Positions			
		\$95.00	5	2		\$950.00	
	Per diem:	Each	Days	Positions			
		\$46.00	5	2		\$460.00	
Labor: Three seasonal technician (Technician I)							
				6, 40 hr weeks			
	Hours	Salary/hr	Benefits	Indirect	Positions		
	240	\$15.61	\$705	\$1,388	3	\$17,517.51	
Labor: One seasonal technician (Technician II)							
				6, 40 hr weeks			
	Hours	Salary/hr	Benefits	Indirect	Positions		
	240	\$17.66	\$797	\$1,570	1	\$6,606.01	
	Lodging:	Each	Nights	Positions			
		\$95.00	5	4		\$1,900.00	
	Per diem:	Each	Days	Positions			
		\$46.00	5	4		\$920.00	
Task 1 Total:						\$28,353.52	\$28,354
Task 2.							
Labor: One seasonal technician (Technician II)							
				3, 40 hr weeks			
	Hours	Salary/hr	Benefits	Indirect	Positions		
	120	\$17.66	\$399	\$785	1	\$3,303.00	
Task 2 Total:						\$3,303.00	\$3,303
Task 3.							
Labor: Three seasonal technician (Technician I)							
				6, 40 hr weeks			
	Hours	Salary/hr	Benefits	Indirect	Positions		
	240	\$15.61	\$705	\$1,388	0	\$0.00	
Equipment							
Merwin Trap materials and fabrication							
Task 3 Total:						\$0.00	\$0
Task 4. 167b add-in to 126b							
Three seasonal technicians (Technician I's):							
				4, 40 hour weeks			
	Hours	Salary	Benefits	Indirect	Positions		

	160	\$15.61	\$470	\$925	3	\$11,678.34	
	Lodging:	Nights	Each	Positions			
5 nights		5	\$95.00	3	\$1,425	\$1,425	
	Per diem:	Days	Each	Positions			
5 days		5	\$46.00	3	\$690	\$690.00	
Wildlife Manager III							
	Lodging:	Nights	Each	Positions			
5 nights		5	\$95.00	2	\$950	\$950.00	
	Per diem:	Days	Each	Positions			
5 days		5	\$46.00	2	\$460	\$460.00	
Maintenance of boats and trailers (includes replacement, repair and maintenance of boat and trailer parts:							
Generator motor oil and fuel; misc. parts, tools, field gear						\$2,040.00	
Task 4 Total:						\$17,243.34	\$17,243
Task 5.	167b add-in to 126b						
One seasonal technicians (Technician I):				2, 40 hour weeks			
	Hours	Salary	Benefits	Indirect	Positions		
	80	\$15.61	\$235	\$463	1	\$1,946.39	
Task 5 Total:						\$1,946.39	\$1,946
Task 1:	\$28,354						
Task 2:	\$3,303						
Task 3:	\$0						
Task 4:	\$17,243						
Task 5:	\$1,946						
Total:	\$50,846						

FY-2020 Budget

FY-2020 Budget by Task:				126b & 167b			
		Tech 1 Wage:		\$16.00			
2.5% wage increase		Tech II Wage:		\$18.10			
		Benefits:		18.8145%			
		Indirect:		31.1800%			
Task 1.							
Two Wildlife Manager III's:						Subtotals	Task Totals
	Lodging:	Each	Nights	Positions			
		\$95.00	5	2		\$950.00	
	Per diem:	Each	Days	Positions			
		\$46.00	5	2		\$460.00	
Labor: Three seasonal technician (Technician I)							
	Hours	Salary/hr	Benefits	Indirect	Positions		
	240	\$16.00	\$722	\$1,423	3	\$17,955.17	
Labor: One seasonal technician (Technician II)							
	Hours	Salary/hr	Benefits	Indirect	Positions		
	240	\$18.10	\$817	\$1,609	1	\$6,770.60	
	Lodging:	Each	Nights	Positions			
		\$95.00	5	4		\$1,900.00	
	Per diem:	Each	Days	Positions			
		\$46.00	5	4		\$920.00	
Task 1 Total:						\$28,955.77	\$28,956
Task 2.							
Labor: One seasonal technician (Technician II)							
	Hours	Salary/hr	Benefits	Indirect	Positions		
	120	\$18.10	\$409	\$805	1	\$3,385.30	
Task 2 Total:						\$3,385.30	\$3,385
Task 3.							
Labor: Three seasonal technician (Technician I)							
	Hours	Salary/hr	Benefits	Indirect	Positions		
	240	\$16.00	\$722	\$1,423	0	\$0.00	
Equipment							
Merwin Trap materials and fabrication							
Task 3 Total:						\$0.00	\$0
Task 4. 167b add-in to 126b							
Three seasonal technicians (Technician I's):							
	Hours	Salary	Benefits	Indirect	Positions		
					4, 40 hour weeks		

	160	\$16.00	\$482	\$948	3	\$11,970.11	
	Lodging:	Nights	Each	Positions			
5 nights		5	\$95.00	3	\$1,425	\$1,425	
	Per diem:	Days	Each	Positions			
5 days		5	\$46.00	3	\$690	\$690.00	
Wildlife Manager III							
	Lodging:	Nights	Each	Positions			
5 nights		5	\$95.00	2	\$950	\$950.00	
	Per diem:	Days	Each	Positions			
5 days		5	\$46.00	2	\$460	\$460.00	
Maintenance of boats and trailers (includes replacement, repair and maintenance of boat and trailer parts:							
Generator motor oil and fuel; misc. parts, tools, field gear						\$2,040.00	
Task 4 Total:						\$17,535.11	\$17,535
Task 5.	167b add-in to 126b						
One seasonal technicians (Technician I):				2, 40 hour weeks			
	Hours	Salary	Benefits	Indirect	Positions		
	80	\$16.00	\$241	\$474	1	\$1,995.02	
Task 5 Total:						\$1,995.02	\$1,995
Task 1:	\$28,956						
Task 2:	\$3,385						
Task 3:	\$0						
Task 4:	\$17,535						
Task 5:	\$1,995						
Total:	\$51,871						

IX. Budget Summary:

FY-2016	\$ 72,643
FY-2017	\$ 48,473
FY-2018	\$ 49,847
FY-2019	\$ 50,846
FY-2020	\$ 51,871
Total:	\$273,680

X. Reviewers: CPW: Crockett, Hebein, Logan

XI. References:

Burdick, B. D. 2011. Colorado river smallmouth bass removal. Scope of work prepared for the Recovery Implementation Program for the Endangered Fishes of the Upper Colorado River Basin. Recovery Program Project Number 126. U. S. Fish and Wildlife Service, Colorado River Fishery Project, Grand Junction, Colorado.

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