Monday, December 16, 2019



CFPF Funded Projects Accomplishment/Progress Reporting

Project/Program Title:

Mid Klamath Creek Mouth Enhancement Project

USFWS Grant Number:

F18AS00118

Email address of individual submitting this report:

jimmy@mkwc.org

Name of individual submitting this report:

James Peterson

Dates covered by this report:

Start Date: 10/01/2019 End Date: 12/16/2019 Difference: 76 days

Briefly summarize (2-3) sentences) overall progress and accomplishments applicable to this time period.

During the summer of 2019, our survey crews conducted 70 site visits at 37 creeks. MKWC identified 18 barriers, and treated 12 of the barriers that were disrupting migratory patterns or seasonal use for either adult or juvenile salmonids. These barriers consisted of swimmers dams, large log jams, boulder/bedrock cascades, clogged fish ladder, low and high velocities located at the confluences of the tributaries. The untreated barriers consisted of incised three to four foot boulder cascades, wood jams, and high velocity cascades.

Task specific/deliverable updates (for each task in the cooperative agreement, provide a brief update on progress; provide brief update on significant work toward, or completion of any deliverables from the cooperative agreement):

Creek Mouth Enhancement for juvenile fish passage:

MKWC conducted fish passage enhancement on 37 tributaries during the 2019 summer season. Most sites were monitored twice to gauge the continued effectiveness of the treated barriers.

Post Work Monitoring



MKWC monitored the success of our

implementation to assess Coho abundance in response to the treated barriers. Of the sites monitored, Tom Martin Creek was observed to have the highest increased salmonid density. We have also seen an increase in 9 of the 12 treated barriers. While Coho were our target species, both Chinook and steelhead were observed in large numbers at several sites before and after treatments.

Creek Mouth Enhancement for Adult Fish Passage

MKWC conducted adult fish passage on 14 tributaries. Evaluations of these existing adult passages have suggested that migrant adults are successfully entering the tributaries and accessing suitable spawning habitat.

Any significant developments beyond those reported for specific tasks/deliverables:

Discovered new barrier on Cottonwood Creek. A low flow barrier that can have a wide variety of negative effects on salmon and resident fish. This small barrier can block Coho from accessing high quality rearing and spawning habitat in side channels or upper tributaries. A large artificial dam constructed downstream of HWY 96 in Seiad Creek. This dam consisted of large rock, wood and plastic tarps. Coho were observed spawning below the dam but none above. No adult salmon were observed upstream of the dam on 11/19/2019 and 12/3/2019. Staff attempted to modify the barrier but due to safety concerns were only able to remove a small portion of it. Fish were seen spawning above the barrier the week of December 9th. Another adult barrier was discovered on Middle Creek on 11/11/19. This barrier was 3.5 feet tall and made of wood, plastic and tarps. Barrier was removed soon after by MKWC staff. Adult fish were recorded spawning above the barrier the following week.

Any delays/issues that are impacting or may impact progress of the project:

No delays are anticipated to date.

Summary of invoices/charges to the agreement (include amount and date of any invoices submitted for payment under the agreement that occurred during the reporting period. Optionally, include a summary of charges incurred during the reporting period that will be invoiced during the next reporting period):

Reporting Period: October 1st-December 16thth 2019



Anticipated Invoice September 20th – December 16th 2019= \$6,787.59

Charges incurred

during this reporting period were used for continual barrier monitoring, gear acquisition, data management, administrative charges and writing annual report.

Anticipated work in the next six months (if this timeframe includes Oct 1, please describe any accomplishments that will occur before this date):

Barriers can be developed through a broad range of flow conditions disrupting migratory patterns and seasonal use. With returning adult fish in the river and low flows, MKWC staff will continually monitor important tributaries for fish barriers and modify (if possible) any barriers encountered.

Summary and number of any outreach activities or significant meetings related to the project:

During this reporting period MKWC conducted three restoration outreach events, and gathered two community members for volunteer work days involving fish passage activity. Overall, 46 individual stewards(volunteers)combined for 5 work days on 4 tributaries, and assisted in building step-pools for juvenile passage, assembling brush bundles to increase cover for fish utilizing thermal refugia, and creek mouth enhancement to ease passage for juvenile salmonids into cold water tributaries.

Please include any additional information (pictures, documents, presentations, or similar outputs developed during the reporting period related to the project). **PLEASE NOTE: USFWS requires before and after photos for every barrier removed/remediated. Please supply when available AND include in the final report when submitted.**



Expected Completion Date for Forum-funded Activities

Tuesday, December 31, 2019

Summary and number of any monitoring activities conducted as part of this project:

According to the data gathered, the effectiveness of enhancement increased fish densities in 75% of tributaries containing a barrier type. Annual spawner surveys and effectiveness monitoring are being conducted to determine if implementation efforts are meeting desired physical and biological objectives. To date, ten monitoring surveys have been conducted on four creeks with identified barriers. To quantify physical and biological responses. Annual monitoring is being performed to assess Coho distribution in response to barrier removal/remediation. Monitoring will continue through the end of December.

