



# RED RIVER RETENTION AUTHORITY

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## Red River Retention Authority 6 Month Progress Report

Reporting Period 11

May 21, 2020 through November 20, 2020

To

## Natural Resource Conservation Service

For

## Regional Conservation Partnership Program

NRCS Agreement 14-C-ND-669

December 2020

The Statement of Work between the USDA Natural Resource Conservation Service (NRCS) and the Red River Retention Authority (RRRA) summarizes the activities and responsibilities of the entities for the Regional Conservation Partnership Program (RCPP). Item 6, under responsibilities of the RRRA, requires that a semi-annual report be provided to the NRCS that documents project accomplishments and goals achieved. The Memorandum of Understanding (MOU) was signed on May 21, 2015.

On June 13, 2019 the NRCS and RRRA signed Amendment #1 which extends the MOU to May 20, 2021.

The following is an abbreviated update report that summarizes activities that occurred during the 6-month period from May 21, 2020 through November 20, 2020.

**Numbers of WD, WRD and SLO assisted and/or cooperating agencies in the project effort.**

The NRCS will provide a maximum of \$11,040,000 for the development of watershed protection plans within the approved project locations. Within the first reporting period, the RRRA was provided 23 applications to complete watershed protection plans following the guidelines described in the NRCS National Watershed Program Manual. The RRRA accepted the applications and approved 20 of the requests. They provided the 20 applications to the NRCS and requested that the NRCS pursue a cooperation agreement with the local sponsor of the project. One of the applications was not accepted, because the watershed was larger than allowed and two applications were withdrawn before an agreement was executed.

During reporting period 6 the Swan Creek Watershed ceased watershed planning and NRCS and the project sponsor has formally closed out agreement 68-6633-15-009. A final technical report was provided to North Dakota NRCS.

During reporting period 8 the Bois de Sioux Direct watershed sponsored by the Bois de Sioux Watershed District (agreement 68-6322-16-510) and Four Legged Lake watershed sponsored by the Red Lake Watershed District (agreement 68-6322-16-505) formally wrote letters to NRCS requesting to cease watershed planning. The RRRA agreed with both watershed districts (WD) reasoning to cease planning and sent a letter supporting their decision. The WDs drafted a final technical report and submitted their final reimbursement request for the work completed.

During reporting period 9 the Red Lake Watershed District requested to cease planning on Pine Lake watershed (agreement 68-6322-16-5035). The RRRA formally wrote a letter to NRCS requesting to cease watershed planning. The WD sent in a final technical report for work completed.

During reporting period 10 the Roseau River Watershed District (RRWD) requested on June 16, 2020 to terminate Beltrami Island State Forest watershed agreement. The agreement was closed-out on August 27, 2020. The RRWD indicated that continued study of this sub-watershed would not likely result in finding a solution to address the purpose and need for the project. A final technical report was submitted by the RRWD.

At the end of reporting period 10 the Forest River Joint Water Resource District (FRJWRD) requested to cease planning on the Forest River Watershed. Six alternatives were evaluated and two of these six were moved forward into more detailed planning. There was landowner objections to the final two alternatives that would have met the projects purpose and need. As a result the FRJWRD determined the watershed agreement should be terminated. During reporting period 11, the summer of 2020, and a technical report was submitted by the sponsors to the NRCS and RRRRA.

During reporting period 11, the RCPP contribution agreement expired with the Two Rivers Watershed District (TRWD) for the Klondike Watershed. The agreement expired September 30, 2020. A close-out package and technical report was submitted to St. Paul SO October 8, 2020. The TRWD continues to work on the watershed plan using their own technical assistance.

During reporting period 11 the Wild Rice Watershed District requested to terminate their RCPP agreement for the Moccasin Creek watershed, but such a termination could not be fully approved before the agreement expired September 30, 2020. A close-out package was submitted to St. Paul SO September 24, 2020. Future planning, without RCPP assistance, by the sponsors was ceased.

An August 2020 map is shown in **Appendix 1** provides the location and status of the RCPP studies.

During FY20 all thirteen RCPP watershed SLOs were contacted and provided technical assistance through the NRCS and RRRRA RCPP outreach materials that were developed and distributed to all RCPP watersheds.

During project team meetings local, state and Federal cooperating agencies were enlisted to assist in the planning process.

The RRRRA has worked on providing outreach and education opportunities to producers, local soil and water conservation district supervisors and watershed board managers and other conservation partners in the basin. Due to COVID19 pandemic these outreach efforts were curtailed dramatically.

Fact sheets for each of the RCPP watersheds studies were developed for use by NRCS, RRRRA and SLOs. These fact sheets were posted to NRCS and RRRRA web sites and made available for use in July of 2018.

RCPP planning status reports have been developed by NRCS staff for both MN and ND. These reports have been updated for reporting period 11 (see **Appendix 2**). The RRRRA has updated their RCPP spreadsheet to show RCPP funds expended during the planning process through reporting period 11 (see **Appendix 3**)

## **Contributions from other agencies or organizations which help implement provisions of the agreement and further project objectives.**

While SLOs work on RCPP watersheds, they also work on non-RCPP flood damage reduction and water quality efforts through other agencies and/or organizations that have a common vision for flood damage reduction in the Red River basin. A list of projects and the amount of assistance the SLOs and their partners have incurred during reporting period 11 are shown in **Appendix 4**

## **RCPP Watershed Education and Outreach Activities.**

As outlined in the MOU Objective 2 the RRRRA completed tasks 1 through 5 as outlined in the agreement.

Through this agreement the following key deliverables were made.

- The development of 3,700 copies of a RCPP fact sheet.
- Mailing lists for over 8,600 producers and landowners in all 20 RCPP watersheds was developed.
- Two educational postcards sent to 8,269 producers and landowners in the first mailing and 8,644 producers and landowners in the second mailing in all 20 RCPP watersheds
- Fact sheet and postcards were posted to RRRRA website for further circulation
- The information and products developed were posted to the RRRRA website so the public could receive this information.
- Multiple bus tours of the basin were conducted in all three years of the agreement. Hundreds of individuals, both urban and rural were offered an opportunity to learn about RCPP watershed planning, soil health and drainage water management.
- Three SCD/SWCD conducted soil health educational meetings, workshops and/or tours.
- RRRRA partnered with MAWD, RRBC and RRWMB to conduct two summer tours highlighting DWM and soil health
- RRRRA attended seven major basin-wide conferences to share their and NRCS's efforts in RCPP watershed planning and provide outreach material on soil health and drainage water management. It is estimated that over 3,000 participants attended these events.
- RRRRA was a leading sponsor of the Ag BMP workshop held in April 2019 at the University of Minnesota Crookston campus. Approximately 160 leaders in soil and water conservation and water management participated in this international Red River Basin conference.

- Fact sheets for each of the twenty RCPP watersheds were developed through a cooperative effort between NRCS and RRRRA

The RRRRA has appreciated the close working relationship with the NRCS Red River Basin Coordinator through this MOU. This working arrangement helped to ensure good communication and coordination of flood damage reduction outreach activities.

## **Conclusion and Steps Moving Forward**

The Watershed Districts and Water Resource Districts have spent approximately **\$3,236,900** and NRCS **\$7,552,808** during this RCPP planning process. During this past 6-month reporting period the Sponsors and NRCS have spent an estimated **\$796,800** of RCPP funds on planning efforts.

The sponsoring watershed districts and water resource districts and their partners have spent an estimated **\$72,031,942** on flood retention and flood damage reduction on non-RCPP water resource projects in the basin during this reporting period.

During this reporting period the following COVID19 extensions have been approved through September 30, 2021 for the following watersheds. or are being pursued by the sponsors and NRCS.

- Roseau River Watershed District (RRWD) - Whitney Lake watershed agreement.
- Middle-Snake-Tamarac Watershed District (MSTWD) – JD 14 and JD19 watershed agreements.
- Wild Rice Watershed District (WRWD) – Green Meadow and South Branch Wild Rice watershed agreements.
- Pembina County Water Resource District (PCWRD) - Tongue River watershed agreement.

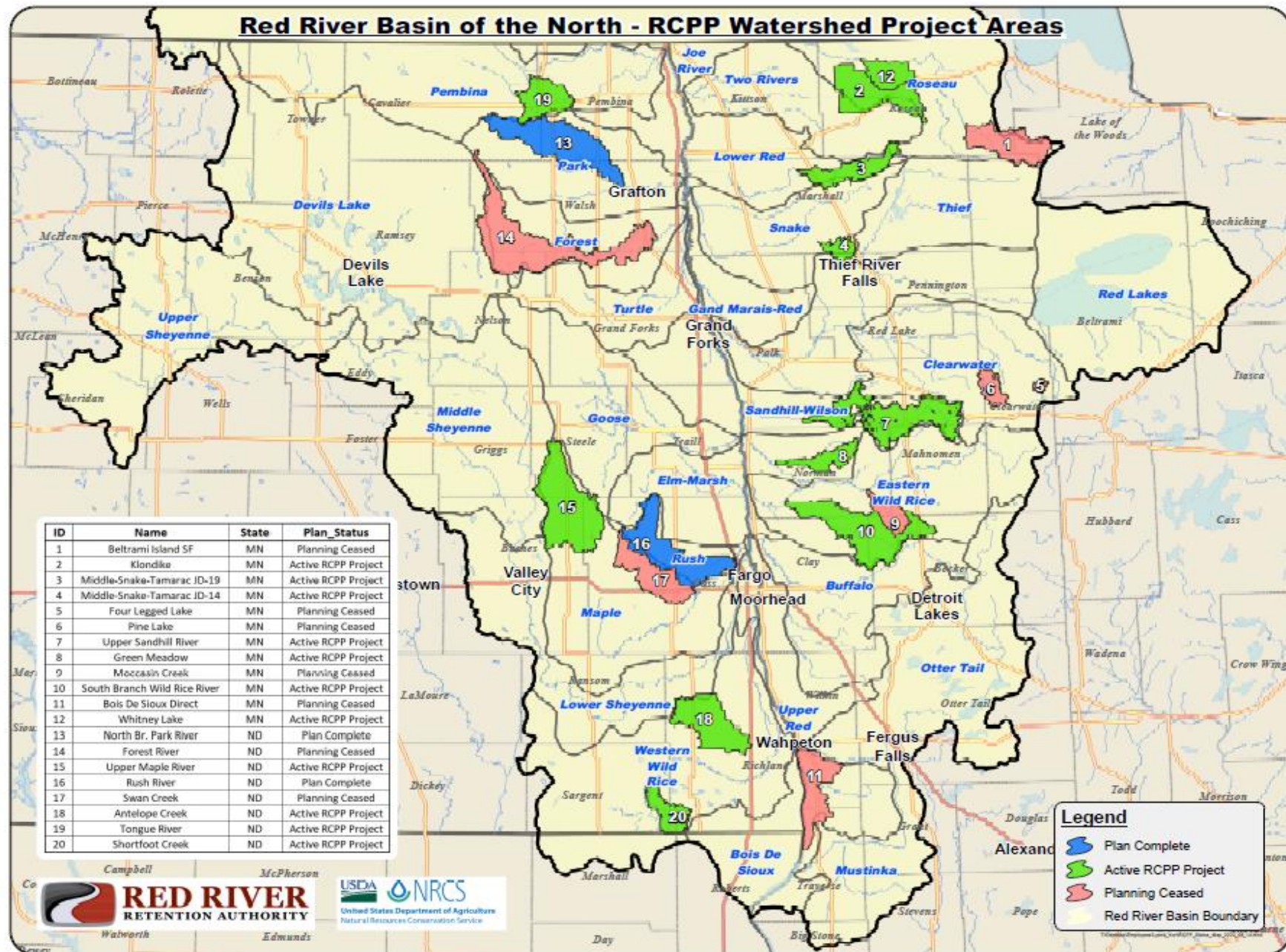
The Sand Hill River Watershed District (SHWD) - Upper Sand Hill River watershed agreement was extended on March 10, 2020 by MN State Conservationist Troy Daniell and is scheduled to expire on May 31, 2020.

As the RCPP watershed planning moves forward there continues to be several watersheds that need to be monitored closely, on a monthly basis, so they can achieve planning target dates.

The NRCS Red River Basin Coordinator and the RRRRA Executive Director are planning to schedule virtual meetings in January and February with project sponsors to get status updates and address planning concerns and issues. The RRRRA continues to do virtual and electronic monitoring and follow-up on a recurring basis.



# Appendix 1 - RCPP Watershed Location and Status Map



## **Appendix 2: - Minnesota Red River RCPP PL-566 Update**

### **68-6322-16-508 South Branch of Wild Rice River Watershed – Wild Rice River WD**

- The amended agreement ends September 30, 2021.
- Total RCPP funds expended through 9/30/20 = \$364,680.61 of \$500,000, and SLO funds expended = \$156,291.69 of \$215,295.
- Revised deliverables schedule: Submission of RP4-Development of Alternatives, and RP5-Environmental Consequences is scheduled for FY21-QTR2. Submission of RP6-Draft Watershed Plan is scheduled for FY21-QTR3.
- Progress reported through June 30, 2020 showed work on tasks associated with documentation of RP3-Affected Environment, RP4-Development of Alternatives, and RP5-Environmental Consequences was on-going.

### **68-6322-16-509 Green Meadow Sub-watershed – Wild Rice River WD**

- The amended agreement ends September 30, 2021. On 9/11/20 the Consultant indicated they are looking at terminating the agreement and may request to move money to another project.
- RCPP funds expended through 9/30/20 = \$317,089.56 of \$500,000, and SLO funds expended = \$135,895.53 of \$215,295.
- Revised deliverables schedule: Submission of a revised RP2-Purpose & Need for Action and Scope of the EA, and RP3-Affected Environment are scheduled for FY21-QTR1. RP4-Development of Alternatives, and RP5-Environmental Consequences are scheduled for FY21-QTR2. RP6-Draft Watershed Plan-EA is scheduled for FY21-QTR3.
- Progress reported through June 30, 2020 showed work on tasks associated with documentation of RP-3Affected Environment, RP4-Development of the Alternatives, RP5-Environmental Consequences, and submittal of RP6-Draft Watershed Plan – EA for review was on-going.

### **68-6322-16-511 J.D. #14 Flood Damage Reduction Project – Middle Snake Tamarac Rivers WD**

- The amended agreement ends September 30, 2021.
- RCPP funds expended through 9/30/20 = \$273,790.79 of \$500,000, and SLO funds expended = \$117,338.91 of \$214,286.
- Revised deliverables schedule: Submissions of RP4-Development of Alternatives, and RP5-Environmental Consequences are scheduled for FY21-QTR2. RP6-Draft Watershed Plan is scheduled for FY21-QTR3.
- Progress reported for April 5 through July 4, 2020 showed work on tasks associated with RP4-Development of Alternatives was on-going. Progress reported through April 4, 2020 indicated work associated with the selection of the Preferred Alternative task for RP6-Draft Watershed Plan – EA and field survey/geotechnical work was ongoing.

**68-6322-16-514 J.D. #19 Flood Damage Reduction Project East Park – Middle Snake Tamarac Rivers WD**

- The amended agreement ends September 30, 2021.
- RCPP funds expended through 9/30/20 = \$354,792.71 of \$500,000, and SLO funds expended = \$152,054.02 of \$214,286.00.
- Revised deliverables schedule: Submissions of RP4-Development of Alternatives, and RP5-Environmental Consequences are scheduled for FY21-QTR2. RP6-Draft Watershed Plan – EA is scheduled for QTR3.
- Progress reported for April 5 through July 4, 2020 showed work on tasks associated with RP4-Development of Alternatives, and RP5-Environmental consequences was ongoing. Progress reported through April 4, 2020 indicated work on tasks associated with selection of the Preferred Alternative and field survey/geotechnical work were ongoing.

**68-6322-16-515 Whitney Lake Watershed Project – Roseau River WD**

- Amended agreement ends September 30, 2021.
- Total RCPP funds expended through 9/30/20 = \$548,520.74 of \$592,644.71, and SLO funds expended = \$255,585.21 of \$297,107.73.
- Revised deliverables schedule: Submissions of RP5-Environmental Consequences, and RP6-Draft Watershed Plan are scheduled for FY21 QTR1.
- Progress reported for April 1<sup>st</sup> through September 30, 2020 for RP6-Draft Watershed Plan indicated documentation of the selected Preferred Alternative in digital format, and the Preferred Alternative section of the watershed plan was 90% completed. The list of consulted entities was 95% completed, and the consultation, coordination, and public participation portion of the watershed plan was 80% completed. Preparation of the Appendices is needed. Full assembly of RP6-Draft Watershed Plan and a final version in electronic format was 60% completed.

**68-6322-16-522 Upper Sand Hill River Watershed – Sand Hill River WD**

- Agreement ends May 31, 2021. Potential availability of 1-year NCE related to COVID-19 to be determined.
- RCPP funds expended through 9/30/20 = \$272,882.81 of \$500,000.00, and SLO funds expended = \$116,949.78 of \$232,360.
- Deliverables schedule: Submission of RP4-Development of Alternatives was scheduled for 3/30/19, and RP5-Environmental Consequences was scheduled for 5/31/20.
- Progress reported through June 30, 2020 indicated work to review the alternatives continued for submission of RP4-Development of Alternatives.
- Anticipating eligibility for a 1-year NCE (related to COVID-19 delays), NRCS received SHRWD's letter, dated 1/14/2020, indicating their deliverables timeline has taken longer than anticipated but the WD remains committed to completing the watershed planning efforts. The letter included a revised deliverables schedule: RP



4 in FY20-QTR3, RP5 in FY21-QTR1, and RP6 in FY21-QTR2. The agreement was ineligible for extension in FY2020 due to the FY2021 expiration date.

#### **68-6322-16-506 Moccasin Creek Sub-watershed – Wild Rice River WD**

- Before the WD's request to terminate the agreement could be fully approved, the agreement expired September 30, 2020.
- The close-out package was submitted to St. Paul SO September 24, 2020.
- RCPP funds expended through 9/30/20 = \$327,418.43 of \$500,000.00, and total SLO funds expended = \$140,322.18 of \$215,295.00.
- NRCS comments were provided for RP2 on 10/16/2020, and RP3 on 10/29/2020. The tasks for the remaining review points were not completed.

#### **68-6322-16-513 Klondike Clean Water Retention Project #11 – Two Rivers WD**

- Agreement expired September 30, 2020.
- The close-out package was submitted to St. Paul SO October 8, 2020.
- RCPP funds expended through 9/30/20 = \$256,021.57 of \$500,000, and SLO funds expended = \$109,723.53.
- Review Point 3 submittal was received 9/18/20, and Review Point 4 submittal was received 9/22/20. Review comments by NRCS were not requested by the TRWD.

#### **68-6322-16-512 Beltrami Island State Forest Watershed Project – Roseau River WD**

- Agreement close-out completed August 27, 2020. Financial close-out completed July 29, 2020. RCPP. WD requested termination of agreement June 16, 2020.
- RCPP funds expended: \$159,374.95 of \$440,685.00. SLO funds expended: \$68,303.56 of \$186,922.65.
- The Board offered that it is unlikely continued study of this sub-watershed will result in finding a solution to address the purpose and need that will be supported and justified.
- The RRRA offered that while the Project Team found and evaluated project alternatives that could have met the purpose and need of the watershed project, it did not find a preferred project alternative that was economically and environmentally feasible.
- Draft PL-566 plan was developed through Review Point 2

#### **68-6322-16-503 Pine Lake Watershed - RLWD**

- Agreement closed out.
- RCPP funds expended = \$500,000 (100%).
- The RLWD continues to investigate potential solutions to achieve FDR without federal financial technical assistance.

**68-6322-16-505 Four Legged Lake Watershed - RLWD**

- Agreement closed out.
- RCPP funds expended - \$265,088.00 (100%).
- Project Team could not reach consensus on required restoration elevation of previously illegally manipulated ditch culvert. MN Public Waters Rules requires 100% approval of riparian property owners to manipulate public water levels.

**68-6322-16-510 Bois de Sioux Direct Watershed - BDSWD**

- Agreement closed out.
- RCPP funds expended = \$498,156.61 of \$500,000 (99.6%).
- No viable alternatives were identified that would adequately address the ag damages across the watershed.

## Appendix 2: - North Dakota Red River RCPP PL-566 Update

### Rush River (Cass WRD)

- NED alternative is a 2.2 mile levee around the City of Amenia with interior stormwater pond and pump station. Construction cost estimate \$2.4 million.
- NWMC comments have been returned, and Moore/NRCS are working to address them. One major issues is that the FEMA action is not final. FEMA will be issuing the LFD in February, so we will need to wait to submit the revised plan after that comes out.
- New cooperative agreement for \$480,000 of NRCS RCPP funds for final engineering design has been obligated, and final design is moving ahead concurrent with finalizing Plan/EA. NRCS currently reviewing geotechnical investigation plan.

### NB Park River (Park River Joint WRD)

- Preferred alternative is an off-channel impoundment with diversion from Cart Creek which provides 2,590 ac-ft storage at the auxiliary spillway crest, provides wetland enhancement for 513 acres of currently degraded wetlands, restores 70 acres of drained wetlands, and will provide substantial downstream water quality improvements (average annual reduction of 66% TP, 73% TN, 42% TSS). Estimate construction cost \$6.7 million.
- Exception request for the locally preferred alternative in lieu of the NED approved by national NRCS.
- NWMC technical review of Draft Plan/EA pending.
- Agreement documents for final design prepared and ready to be submitted, however the \$1,505,138 exceeds available funds in the RCPP project. Approval for FY21 Watershed Operations funds for remaining necessary to fund the design agreement, however plan will need to be authorized before funds are transferred to ND. Anticipate authorization in the summer of FY21, after which cooperative agreement for design will be obligated.

### Upper Maple River (Cass WRD)

- Project involves two final detention sites: #2A is a 2.3 mile long embankment with gated release, total storage capacity 546.8 ac-ft, \$11.8 million construction cost estimate and Alt #5 is a 3.4 mile long embankment with gated release, total storage capacity 1,340 ac-ft, \$13 million construction cost estimate.
- Moore submitted the draft Plan/EA as well as a draft exception request letter to ND NRCS in October. Final economics indicated B/C much lower than expected, and there appears to be inadequate EQ benefits to justify the NED exception. NRCS/Moore/WRD looking at how those could be increased. Meeting to be scheduled with project team in December for discussion of potential revisions to make the plan viable.

### Shortfoot Creek (Sargent WRD)

- Project involves the following final alternatives: (Alt #7 is an on-channel dry dam with a storage capacity of 2,461 ac-ft)(Alt #10/12 involves a diversions and control structures between sloughs)
- NRCS just completed field cultural resource review and all looks good, appendix report to be completed in December.
- Reportedly low B/C and it does not appear that there would be any substantial EQ benefits with 10/12 that would warrant an exception, in fact substantial wetland mitigation could be required. Alt 7 does appear to be a feasible project with an exception. NRCS working with Moore on EQ benefits and wetland mitigation requirements.
- Anticipate draft Plan/EA to be completed early 2021.

### Tongue River (Pembina WRD)

- Final alternative involves 2 miles of river restoration/channel stabilization and 162 ac-ft of retention, construction cost of ~ \$ 2-4 million.
- Additional survey work to compute quantities more accurately for preliminary design completed summer/fall of 2020, and preliminary design revisions in process. The original 2002 cross sections surveyed in the Renwick reservoir were resurveyed for comparison purposes to evaluate channel incision generated lifespan reductions in the reservoir.
- Soil sampling completed in October and lab results pending, to ascribe percentage of phosphorus contributions to water quality problems in the Renwick reservoir from the 3,700 tons/year of erosion currently occurring. To be utilized for economics related to recreation reductions.
- NRCS agreement extended to has an end date of May 20, 2021 with the automatic COVID-19 extensions done by the agency. \$343,942 out of \$500,000 expended to date.
- Resource inventory, H&H modeling, economics work, initial conceptual design, cultural resources all completed. Additional survey work done summer 2020, to generate a more accurate conceptual design- being worked on currently. Also resurveyed historical cross sections in the Renwick reservoir to document deposition from upstream channel incision. Completed soil sampling this fall, waiting on lab test results to tie P delivery from the incision to reduced recreational benefits (algal blooms).
- Target is to complete draft Plan/EA by February 2021.

#### NB Antelope Creek (Richland WRD)

- Project involves two separate retention structures (Drain 15 Site and Drain 95 Site) as well as improvements to Drain 32.
- Resource inventory, existing condition H&H and economics work, geotechnical investigation, and draft NEPA documentation have been reviewed by NRCS. Outstanding work includes finishing conceptual design, wetland delineation/mitigation plans, and cultural resources (which cannot be completed without conceptual design being finished).

#### Forest River (Walsh WRD)

- Final alternative consisted of a diversion channel with associated retention structure. Due to local controversy, WRD decided to halt planning.
- Final summary report submitted and is available at:  
<https://www.nrcs.usda.gov/wps/portal/nrcs/detail/nd/technical/engineering/?cid=nrcseprd1624634>

#### Swan Creek (Cass WRD)

- Final alternative consisted of a diversion channel with associated retention structure. Due to local controversy, WRD decided to halt planning.
- Final summary report submitted and is available at:  
<https://www.nrcs.usda.gov/wps/portal/nrcs/detail/nd/technical/engineering/?cid=nrcseprd1624634>

### Appendix 3 - Summary of RCPP Watershed Planning Activities for Period May 21, 2020 to November 20, 2020

	WD/WRD - Watershed Name	Agreement Signed	Amendment Signed	Study Area (acres)	Accomplishments: To November 20, 2020						RCPP Expended To Date	Total Estimated Study Cost		
					Plan of Work	Purpose & Need	Env. Document	Alternatives	Env. Affects	Draft Plan				
1	Roseau River Watershed - Beltrami Island Area Water Management	2/18/2016	Yes	93,043	7/11/16 Scoping	10/16/2017, 1/8/18	ongoing	Ongoing	Ongoing	Ongoing	Ceased Planning	\$159,374	\$715,133	
2	Two Rivers Watershed - Klondike Clean Water Retention Project	2/11/2016	Yes	113,776	6/30/16 Scoping	7/20/2017	ongoing	preliminary work	Ongoing	Ongoing		\$256,021	\$714,286	Agreement closed
3	Middle-Snake-Tamarac Rivers Watershed - J.D. #19 East Park WMA	2/18/2016	Yes	66,270	9/26/16 Scoping	draft 11-30-17, 9-4-18	8/27/2018	preliminary work	Ongoing	Ongoing		\$354,792	\$715,680	-yr COVID Ext.
4	Middle-Snake-Tamarac Rivers Watershed - J.D. #14 Watershed	2/18/2016	Yes	23,068	4/21/16 Scoping	3/22/2018	7/30/2018	preliminary work	Ongoing	Ongoing		\$273,790	\$715,889	-yr COVID Ext.
5	Red Lake - Four Legged Lake Watershed	2/10/2016		6,253	7/12/16 Scoping	10/21/16 Draft, 6-28-18	Ongoing	Ongoing	Ongoing	Ongoing	Ceased Planning	\$265,088	\$378,697	
6	Red Lake - Pine Lake Watershed	2/10/2016		29,360	7/12/-16 Scoping	3/9/2017	6/20/17	6/7/2018	Ongoing	Ongoing	Ceased Planning	\$500,000	\$757,395	
7	Sand Hill - Upper Sand Hill River Watershed	9/14/2016	No	173,369	8/16/2017 Scoping	ongoing 6-30-18	ongoing	Ongoing	Ongoing	Ongoing		\$272,882	\$732,360	Agree. Exp. 5-21-2021
8	Wild Rice - Green Meadow Sub watershed	3/9/2016	Yes	43,310	5/5/16 Scoping	1/25/17, 11-26-18	ongoing	preliminary work	Ongoing	Ongoing		\$317,089	\$715,248	-yr COVID Ext.
9	Wild Rice - Moccasin Creek Sub watershed	3/9/2016	Yes	38,799	6/12/17 Scoping	4/26/2018	8/27/2018	preliminary work	Ongoing	Ongoing	Ceased Planning	\$327,418	\$715,283	
10	Wild Rice - South Branch Wild Rice River Sub watershed	3/9/2016	Yes	165,236	6/12/17 Scoping	6/13/2018	4/28/2018	preliminary work	Ongoing	Ongoing		\$364,680	\$715,295	-yr COVID Ext.
11	Bois de Sioux - Rabbit River	WD Declined		80,136										
12	Bois de Sioux - Bois de Sioux Direct Watershed	4/4/2016		96,328	7/27/16 Scoping	8/10/17 Meeting	3/12/2018	10/26/18	ongoing	Ongoing	Ceased Planning	\$498,156	\$875,000	
13	Bois de Sioux - Five Mile Creek	WD Declined		77,643										
14	Park River Joint WRD - North Branch Park River Watershed	9/16/2015	NA	165,245	2/17/16 Scoping	final	complete	diversion & dry dam	complete	complete	draft complete	\$493,986	\$732,000	NED exception approved, plan under review
15	Forest River - Forest River Watershed	*9/18/2015	5/11/2017	245,300	2/18/16 Scoping	6/22/16 Draft	draft completed	diversion & dam	draft completed	draft completed	Ceased Planning	\$488,837	\$1,428,885	Agreement closed
16	Cass County Joint WRD - Upper Maple River Watershed	9/24/2015	NA	187,006	1/6/16 Scoping	11/21/2017 Draft, being revised	complete	2 dry dams, revising to add EQ benefits to warrant NED exception	complete	complete	draft submitted to ND NRCS, revisions underway	\$500,000	\$940,000	Agreement closed
17	Cass County Joint WRD - Rush River Watershed	9/24/2015	NA	141,929	1/6/16 Scoping	final	complete	levee	complete	complete	draft complete	\$400,897	\$940,000	Review received from NWMC, work to finalize underway, Agree closed
18	Cass County Joint WRD - Swan Creek Watershed	9/24/2015		87,707	1/6/16 Scoping	6/29/16 Draft	-----	-----	-----	-----	Ceased Planning	\$187,336	\$940,000	Agree closed
19	Richland County WRD - North Branch Antelope Creek Watershed	4/26/2016	NA	111,327	11/10/16 Scoping	5/24/2018	ongoing	2 dry dams, 2 channel improvement projects	Ongoing	Ongoing		\$500,000	\$874,000	Agreement closed
20	Pembina County WRD - Tongue River Watershed	5/27/2016	Yes	67,000	4-5-17 Scoping	11/21/2017 Draft, being revised	ongoing	channel stabilization, retention	Ongoing	Ongoing		\$343,942	\$799,151	NRCS 1-yr COVID Ext approved
21	Sargent County WRD - Shortfoot Creek Watershed	4/25/2016	Yes	74,247	6/28/16 Scoping	7/28/16 Draft, will need revision	ongoing	1 dry dam, 1 diversion/pump	Ongoing	Ongoing		\$500,000	\$940,000	Agreement closed
22	Roseau River - Whitney Lake Watershed	5/4/2016	Yes	47,384	4-28-17 Scoping	8/24/2017	6/1/2018	9/26/18	Ongoing	Ongoing	rough draft 10/19	\$548,520	\$889,753	NRCS 1-yr COVID Ext approved
	Roseau River - Lower Roseau Lake Bottom Watershed	Ineligible		109,000										
<b>Totals for Approved RCPP Studies</b>				2,242,736								<b>\$7,552,808</b>	<b>\$16,234,055</b>	

Note: Updated figures for cost incurred may not have been obtained for all studies.

\*Note: Expansion of the study area and budget increase for the Forest River Watershed was approved for area 1B on 5-11-17

MN 5 active agreements were given 1-year COVID19 extensions to 9-30-21 with the exception of the Upper Sand Hill River Watershed



## Appendix 4 - Summary of Partner Non-RCPP Flood Damage Reduction Activities for Period May 21, 2020 to November 20, 2020

Name of Project	WD/WRD Watershed	Costs for	Cost For	Cost For	Cost For	Cost For	Cost For	Cost For	Cost For	Cost For	Total Cost	Total	
		May 21, 2016 to 20-May-17	May 21, 2017 to Nov. 20, 2017	Nov. 21, 2017 to May 20, 2018	May. 21, 2018 to Nov. 20, 2018	Nov. 21, 2018 to May 20, 2019	May 21, 2019 Nov. 20, 2019	Nov. 21 2019 to May 20, 2020	May 21, 2020 to Nov. 20, 2020	Incurred for Project	Project Cost		
<b>Pembina River Watershed in ND:</b>													
Renwick Dam Rehabilitation	Pembina County WRD; Tongue R. Subwatershed		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$8,926,418	Note 1
Renwick Dam Gate Retrofit	Pembina County WRD; Tongue R. Subwatershed		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140,000	\$164,722	
Renwick Dam Emergency Action Plan	Pembina County WRD; Tongue R. Subwatershed	\$9,224	\$0	\$0	\$0	\$0	\$0	\$0	\$186	\$0	\$9,410	\$79,600	
Hydrology Model - Pembina River	Pembina County WRD	\$3,480	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,712	\$10,712	Note 1B
Pembina River border dike	Pembina County WRD		\$55,948	\$0	\$2,839	\$0	\$0	\$0	\$0	\$0	\$58,787		Note 1B
Detention study - Pembina River	Pembina County WRD	\$39,315	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$203,027	\$203,027	
Detention study - local between Pembina & Park	Pembina County WRD & Walsh County WRD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$56,558	\$56,538	
Herzog Dam Gate Repair	Pembina County WRD; Tongue R. Subwatershed				\$3,679	\$0	\$5,538	\$18,956	\$0	\$0	\$28,173		Note 1B
Goschke Dam Spillway Gate Retrofit	Pembina County WRD; Tongue R. Subwatershed						\$16,008	\$9,778	\$0	\$0	\$25,786		Note 1B
<b>Park River Watershed in ND:</b>													
Hydrology Model - Park River	Walsh County WRD & Pembina County WRD	\$2,393	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,924	\$6,924	
Grafton Flood Control Project	City of Grafton	\$1,152,200	\$2,465,569	\$5,502,331	\$11,014,899	\$10,230,137	\$3,964,508	\$5,306,112	\$995,855	\$0	\$46,133,942	\$47,400,000	Note 1A
Detention study - Park River	Walsh County WRD & Pembina County WRD	\$25,820	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$165,918	\$165,918	
<b>Forest River Watershed in ND:</b>													
Michigan spillway	Nelson County WRD	\$384,744	\$0	\$6,674	\$0	\$0	\$0	\$0	\$0	\$0	\$1,451,518	\$4,628,853	
<b>Turtle River Watershed in ND:</b>													
Upper Turtle River Dam #1 Emergency Action Plan (EAF)	Grand Forks County WRD			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,707	\$11,707	
Upper Turtle River Dam #4 EAP	Grand Forks County WRD			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,820	\$10,820	
Upper Turtle River Dam #5 EAP	Grand Forks County WRD			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000	
Upper Turtle River Dam #8 EAP	Grand Forks County WRD			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,337	\$11,337	
Upper Turtle River Watershed Plan	Grand Forks County WRD									\$0	\$0		
<b>Elm River Watershed in ND:</b>													
Elm River Dam #1 Repair	Steele County WRD						\$11,471	\$0	\$0	\$0	\$11,471	\$27,150	Note 1B
<b>Rush River Watershed in ND:</b>													
					\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
<b>Sheyenne River Watershed in ND:</b>													
Sheyenne Diversion Low Flow Improvements	SE Cass WRD - Sheyenne River		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350,000	
Valley City - Flood Protection, several phases		\$5,845,555	\$1,641,044	\$2,721,859	\$4,546,076	\$14,927,451	\$3,753,930	\$2,267,263	\$2,433,460	\$0	\$38,136,638	\$143,000,000	Note 2
Lisbon - Several Phases		\$2,100,694	\$1,383,702	\$2,913,515	\$2,007,995	\$2,825,841	\$903,644	\$391,093	\$217,766	\$0	\$12,744,250	\$47,000,000	Note 3
McVillie Dam	Nelson County WRD		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,600	\$15,600	
<b>Maple River Watershed in ND:</b>													
Lake Bertha Flood Control Project	Cass County Joint WRD	\$0	\$0	\$116,853	\$0	\$0	\$161,530	\$0	\$0	\$0	\$278,383	\$541,780	Note 1B
Swan Buffalo Detention Dam #5 Improvements	Maple River WRD	\$0	\$150,098	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150,098	\$192,180	Note 1C
Swan Buffalo Detention Dam #8 Improvements	Maple River WRD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$183,760	
Swan Buffalo Detention Dam #12 Improvements	Maple River WRD	\$0	\$116,263	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$116,263	\$168,964	Note 1C
Upper Maple River Dam	Maple-Steele Jt. WRD - Maple River Watershed		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000,000	\$8,800,000	

## Appendix 4 - Summary of Partner Non-RCPP Flood Damage Reduction Activities for Period May 21, 2020 to November 20, 2020

Name of Project	WD/WRD Watershed	Costs for	Cost For	Cost For	Cost For	Cost For	Cost For	Cost For	Cost For	Total Project Cost			
		May 21, 2016 to 20-May-17	May 21, 2017 to Nov. 20, 2017	Nov. 21, 2017 to May 20, 2018	May 21, 2018 to Nov. 20, 2018	Nov. 21, 2018 to May 20, 2019	May 21, 2019 Nov. 20,2019	Nov. 21 2019 to May 20, 2020	May 21, 2020 to Nov. 20, 2020				
<b>Wild Rice River Watershed in ND:</b>													
Gwinner Dam Study	Sargent County WRD - Wild Rice R. Watershed	\$22,913	\$4,723	\$424	\$0	\$0	\$0	\$0	\$0	\$0	\$28,368	\$122,410	Note 1B
Upper Wild Rice Watershed Study	Sargent County WRD - Wild Rice R. Watershed		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$136,000	\$210,000	
Storm Lake Outlet Study	Sargent County WRD - Wild Rice R. Watershed		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35,255	
Brummond-Lubke Dam Improvements	Sargent County WRD - Wild Rice R. Watershed							\$51,660	\$2,964	\$241	\$54,865		Note 1B
Silver Lake Dam Feasibility Study	Sargent County WRD - Wild Rice R. Watershed							\$10,651	\$3,517	\$0	\$14,168		Note 1B
Crooked Creek Watershed	Sargent County WRD - Wild Rice R. Watershed									\$0	\$0		
<b>Bois de Sioux Watershed in MN:</b>													
Redpath Impoundment	Bois de Sioux Watershed-Mustinka River			NR	\$0		\$0	\$344,811		\$356,721	\$728,920	\$34,000,000	
North Ottawa Impoundment	Bois de Sioux Watershed-Rabbit River			NR	\$0		\$0	\$0		\$0	\$866,542	\$18,900,000	
<b>Middle-Snake-Tamarac Watershed in MN:</b>													
New Folden	Middle River			\$43,065	\$0		\$0	\$0		\$0	\$43,065		
Swift Coulee	Middle River			\$17,348	\$0		\$0	\$0		\$0	\$17,348		
<b>Red lake Watershed in MN</b>													
Black River Watershed		\$170,684	\$588,665	\$262,090	\$0		\$0	\$0		\$618,475	\$1,639,914		
West Side Flood Damage Reduction Project					\$0		\$0	\$0		\$6,275,261	\$6,275,261		
<b>Roseau River Watershed in MN:</b>													
RRWMA				\$50,751	\$0		\$0	\$0		\$0	\$50,751		
Roseau Lake				\$318,187	\$0		\$0	\$0		\$0	\$318,187		
<b>Sand Hill Watershed in MN</b>													
Ditch 80: Improvement & Establishment of Lat.1 and 2				NR	\$0		\$0	\$0		\$0	\$0		
Riffle Expansion							\$0	\$0		\$0	\$0		
<b>Two Rivers Watershed in MN</b>													
				NR	\$0		\$0	\$0		\$0	\$0		
<b>Wild Rice River Watershed in MN</b>													
Halstad Levee Improvement		\$218,665	\$62,256	\$85,749	\$0			\$204,663		\$0	\$1,069,568		
Goose Prairie WMA		\$35,761	\$5,119	\$70,488	\$0			\$152,358		\$0	\$327,944		
Lower Wild Rice Corridor		\$16,925	\$8,167	\$13,127	\$0			\$25,404		\$0	\$132,257		
Hendrum Levee Improvement								\$80,698		\$0	\$80,698		
<b>Red River Mainstem:</b>													
Oslo Access Project	Middle-Snake-Tamarac R. Watershed			\$65,992	\$0						\$65,992		
FM Diversion		\$131,266,627	\$40,402,817	\$29,369,902	\$19,030,810		\$36,686,188	\$22,719,620		\$60,924,228	\$635,949,817	\$2,200,000,000	Note 4
Upstream Detention					\$0					\$0	\$1,400,000		Note 5
MN EIS					\$0					\$0	\$0		
Oxbow, Hickson, Bakke Levee					\$0					\$0	\$0		
Moorhead Acquisitions, Interior Levees					\$0					\$0	\$0		
Fargo Acquisitions, Interior Levees					\$0					\$0	\$0	\$247,000,000	

## Appendix 4 - Summary of Partner Non-RCPP Flood Damage Reduction Activities for Period May 21, 2020 to November 20, 2020

Name of Project	WD/WRD Watershed	Costs for	Cost For	Cost For	Cost For	Cost For	Cost For	Cost For	Cost For	Total Project Cost	
		May 21, 2016 to 20-May-17	May 21, 2017 to Nov. 20, 2017	Nov. 21, 2017 to May 20, 2018	May 21, 2018 to Nov. 20, 2018	Nov. 21, 2018 to May 20, 2019	May 21, 2019 to Nov. 20, 2019	Nov. 21 2019 to May 20, 2020	May 21, 2020 to Nov. 20, 2020		
<b>Entire Watershed:</b>											
Comprehensive Watershed Management Plan	Red River Watershed				\$0		\$0	\$0	\$0	\$0	\$1,000,000
USGS Stream Gages - Each Fiscal Year	Red River Watershed	\$435,263	\$238,500	\$238,500	\$210,509	\$210,509	\$210,509	\$210,509	\$209,935	\$2,583,639	Note 6
Regional Detention	Red River Watershed	\$4,421	\$1,725	\$17,891	\$0	\$4,968	\$0	\$0	\$0	\$30,085	Note 7
Nutrient Management	RRBC				\$0					\$0	
<b>Totals for Partners Projects</b>		<b>\$141,820,434</b>	<b>\$47,124,595</b>	<b>\$41,901,227</b>	<b>\$36,816,807</b>	<b>\$28,297,587</b>	<b>\$45,807,772</b>	<b>\$31,825,874</b>	<b>\$72,031,942</b>	<b>\$756,840,711</b>	<b>\$2,764,223,674</b>
NR - No Report											
Note 1: Values shown in time periods is for non-federal costs incurred											
Note 1A: Recent cost estimated by comparing SWC spreadsheet from March 2020 through October 2020. Assumed SWC cost share at 75% for construction.											
Note 1B: Only RRJWRD costs shown.											
Note 1C: Only SWC costs shown.											
Note 2: Recent cost estimated by comparing SWC spreadsheet from March 2020 through October 2020. Assumed SWC cost share at 80% for construction.											
Note 3: Recent cost estimated by comparing SWC spreadsheet from March 2020 through October 2020. Assumed SWC cost share at 85% for construction.											
Note 4: \$1.4B non-federal cost; Comparison of March 31, 2020 and October 31, 2020 Fiscal Report used to obtain current expenditures.											
Note 5: Amount obligated to upstream detention projects. Not paid out yet.											
Note 6: Amount paid is 1/2 of non-federal (RRJWRD of ND, RRWMB of MN, ND SWC, MNDNR) portion for FY 2021.											
Note 7: \$230,000 non-fed., \$754,086 federal; payment shown is from RRJWRD											