



# **RED RIVER**

## **RETENTION AUTHORITY**

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# Red River Retention Authority

## 6 Month Progress Report

Reporting Period 9

May 21, 2019 through November 20, 2019

To

# Natural Resource Conservation Service

For

# Regional Conservation Partnership Program

NRCS Agreement 14-C-ND-669

December 2019

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, 2019 through November 20, 2019.

**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 One of the applications was not accepted, because the watershed was larger than allowed and two applications were withdrawn before an agreement was executed.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) have formally written letters to NRCS requesting to cease watershed planning. The RRRA has agreed with both watershed districts (WD) reasoning to cease planning and has drafted a letter supporting their decision.

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 is currently working on drafting a final technical report.

During the reporting period all thirteen RCPP watershed SLOs were contacted and provided technical assistance through the NRCS and RRRA RCPP outreach materials were developed and distributed to all RCPP watersheds through agreement (68-6633-16-512)

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

A December 2019 map is shown in **Appendix 1** that shows the location of the remaining 16 active RCPP studies. 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 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 9 (see **Appendix 2**). The RRRRA has updated their RCPP spreadsheet to show RCPP funds expended during the planning process and specifically for reporting period 9 (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 the reporting period are shown in **Appendix 4**

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

The following items are some of the major education and outreach activities during reporting period 9. In addition to these activities and deliverables there has been significant day to day correspondence and information dissemination amongst NRCS, SLOs, SWCD/SCD, state and local units of government, as well as other NGOs and other partner organizations to further the RCPP planning effort in the basin.

As outlined in the MOU Objective 2 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. The following activities and efforts were undertaken in the last 6 months.

- 1) Developed radio PSAs for KFGO radio regarding flooding and water management in the Red River Basin.
- 2) Served on the planning committee for the RRRRA, RRWMB and MAWD Red River Valley Summer Tour held in June. Served as a tour guide for 3 buses of participants (estimated at 110 people) that toured soil and water conservation practices in the Upper Red River Basin in June.
- 3) Served on a Minnesota Flood Damage Reduction Work Group (FDRWG) subcommittee where the RRRRA promoted soil health and drainage water management as key components in their strategy plan.
- 4) The RRRRA is a member of the Red River Basin Commission's Drainage Integration Committee. This Committee, through a NRCS cooperative grant, is exploring the impacts of tile drainage and BMP implementation in the Rush River WRD in Cass County North Dakota. This project is anticipating applying for 2019 RCPP funds to

implement the drainage water management study. I attended 5 committee meetings during this reporting period.

- 5) Participated in and served as a tour guide for the North Dakota Water Education Foundation's (NFWEF) summer tour of the Lower Red River basin conducted July 18<sup>th</sup>. Soil and water conservation topics were discussed with approximately 35 participants.
- 6) In August the RRRRA participated in the Red River Watershed Management Boards water quality subcommittee meeting. This subcommittee discussed, amongst many topics, the topics of the need for improving soil health in the basin and having a better understanding of drainage water management impacts in the basin.
- 7) September 10 – 12 the RRRRA had an exhibit at the 2019 Big Iron Farm Show at the Red River Valley Fairgrounds. The RRRRA was able to network with many farmers and ranchers, as well as ag industry entrepreneurs and leaders. Soil health fact sheets were made available to show participants. Hundreds of show attendees were exposed to the RRRRA and its efforts in soil health and watershed protection.
- 8) The Wilkin County SWCD received financial assistance from the RRRRA through this agreement to purchase two soil health kits for educating producers in Wilkin County about soil health. Wilkin County SWCD conducted a soil health day event earlier in September with about 23 participants.
- 9) Participated September 19<sup>th</sup> in USACE Red River Basin-wide Feasibility study meeting in Fargo.
- 10) Secured booth space for RRRRA at the 2019 Prairie Grains Conference December 12<sup>th</sup> at the Alerus Center in Grand Forks, ND.
- 11) Attended the National Watershed Coalition Conference in Lexington, Kentucky. Conference September 30<sup>th</sup> to October 2<sup>nd</sup>. It was educational in reference to RCPP watershed planning and implementation.
- 12) Participated in the RRWMB Water Quality Subcommittee meeting in Ada, MN on October 29<sup>th</sup>.
- 13) November 8<sup>th</sup> in Argusville, ND, the RRRRA was part of Senator Hoeven's farm talk concerning the wet conditions in the state and the disaster declaration being made for 46 or the 53 counties in ND. USDA Under Secretary Bill Northey was present to hear farmer concerns over wet and flooding conditions. The RRRRA continues to support and provide outreach assistance for flood damage reduction projects. Congressional staffs were informed of the RCPP watershed planning efforts in the Red River basin.
- 14) November 20<sup>th</sup> the RRRRA assisted the Wilkin County SWCD, as a contributor to their 2019 RCPP proposal. The RRRRA contribution would be for outreach activities regarding water quality, water quantity and soil health. The RRRRA's commitment letter was sent to the Wilkin County SWCD.

## **Conclusion and Steps Moving Forward**

The Watershed Districts and Water Resource Districts have spent approximately \$2,761,000 and NRCS \$6,442,500 during this RCPP planning process. During this past 6-month reporting period the Sponsors and NRCS have spent an estimated \$1,218,000 on planning efforts.

The sponsoring watershed districts and water resource districts and their partners have spent an estimated \$48,492,181 on non-RCPP water resource projects in the basin during this reporting period.

During this reporting period the following extension and amendments have been approved or are being pursued by the sponsors and NRCS.

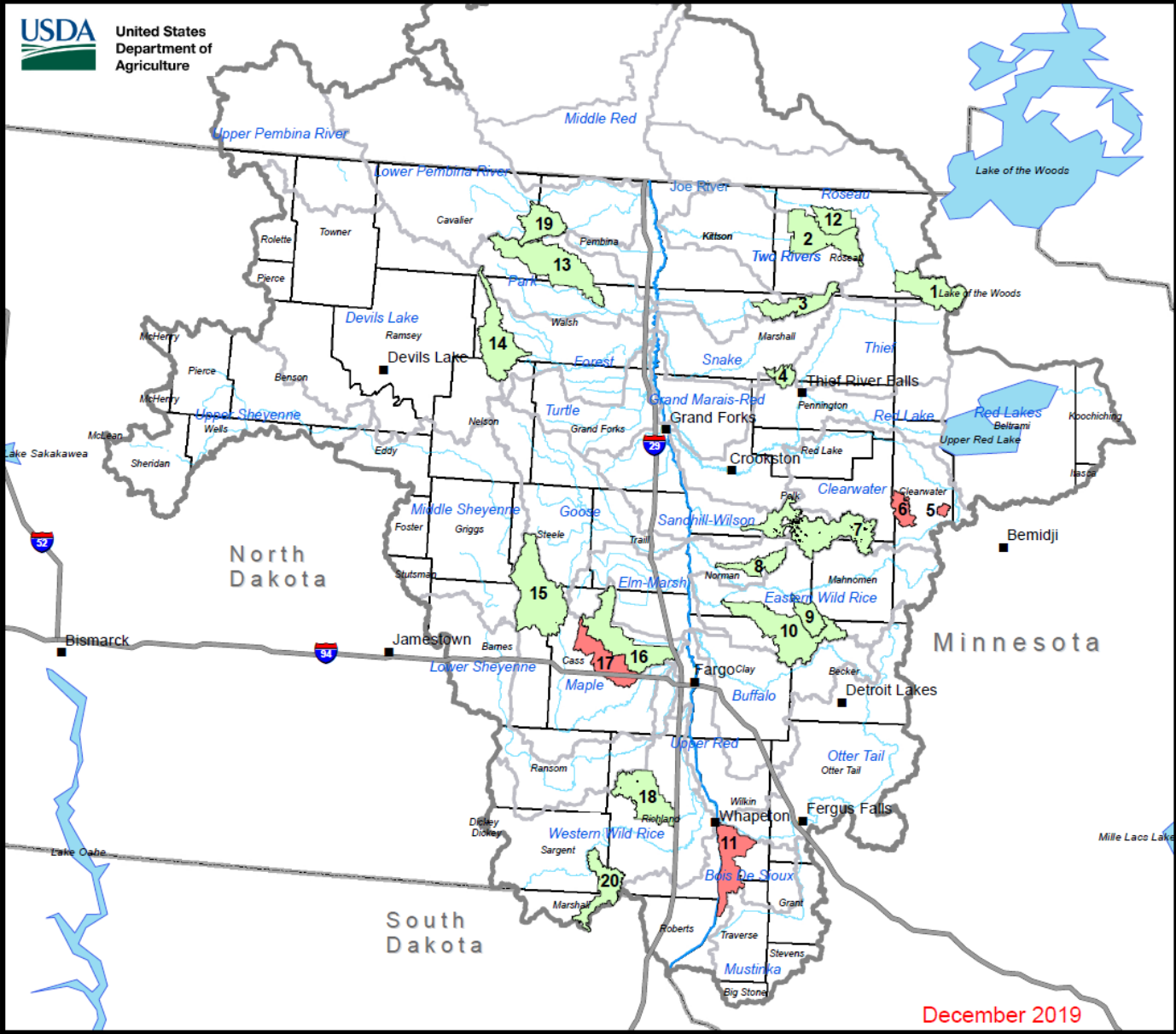
- 1) Roseau River Watershed District (RRWD) requested to extend the Whitney Lake watershed agreement for one additional year and to increase the total project budget by \$84,735 (\$59,315 Fed/\$25,420 SLO).
- 2) Seven of the other remaining eight active Minnesota RCPP watersheds have received 1-year time extensions until September 30, 2020. Upper Sand Hill River watershed has not requested an extension and is scheduled to expire in May 2020.
- 3) Four of the remaining seven North Dakota watershed agreements (North Branch Park River, Upper Maple River, Shortfoot Creek and North Branch Antelope Creek) expired on September 30, 2019. The local sponsors continue to work on getting these plans completed using other funding sources.

The RRRRA Board of Managers requested a 1-year extension on agreement NRCS MOU 14-C-ND-669. The amendment for this agreement was received and signed June 13, 2019.

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

The NRCS Red River Basin Coordinator and the RRRRA Executive Director are scheduling meetings with project sponsors for January and February to get status updates and address planning concerns and issues.

# Appendix 1 - RCPP Watershed Location Map



## Red River Basin of the North RCPP Watershed Project Areas



| ID | Name                                   |
|----|--|
| 1  | Beltrami Island State Forest           |
| 2  | Klondike                               |
| 3  | Middle-Snake-Tamarac JD-19             |
| 4  | Middle-Snake-Tamarac JD-14             |
| 5  | Four Legged Lake (Planning Ceased)     |
| 6  | Pine Lake (Planning Ceased)            |
| 7  | Upper Sandhill River                   |
| 8  | Green Meadow                           |
| 9  | Moccasin Creek                         |
| 10 | South Branch Wild Rice River           |
| 11 | Bois De Sioux Direct (Planning Ceased) |
| 12 | Whitney Lake                           |
| 13 | North Branch Park River                |
| 14 | Forest River                           |
| 15 | Upper Maple River                      |
| 16 | Rush River                             |
| 17 | Swan Creek (Planning Ceased)           |
| 18 | Antelope Creek                         |
| 19 | Tongue River                           |
| 20 | Shortfoot Creek                        |

Date: 8/30/2019

- RCPP Project Watershed
- Planning Ceased
- City
- Counties

1 in = 30 miles



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

### **BOIS DE SIOUX WATERSHED DISTRICT**

#### 68-6322-16-510 Bois de Sioux Direct Watershed

- Planning ceased.
- RCPP funds – \$498,156.61 expended (99.6%).
- Last progress report received July 10, 2019.
- BdSWD requested NRCS to terminate and closeout this agreement March 21, 2019. Original close-out documents were completed and sent to G&A specialist August 30, 2019. Required revisions were submitted to G&A specialist December 6, 2019 for final action.
- Project Team determined there were no viable alternatives to adequately address the ag damages across the watershed.
- Agreement expired September 30, 2019.

### **MIDDLE SNAKE TAMARAC RIVERS WATERSHED DISTRICT**

#### 68-6322-16-511 J.D. #14 Flood Damage Reduction Project

- Amendment 1 approved August 28, 2019 for a one-year extension at no cost.
- Cultural resources of affected environment, and development of alternatives are being reviewed and modeled.
- RCPP funds – \$213,334.30 expended (43%).
- Progress reported through October 5, 2019.
- Agreement expires September 30, 2019

#### 68-6322-16-514 J.D. #19 Flood Damage Reduction Project - East Park

- Amendment 1 approved August 2019 for a one-year extension at no additional cost.
- Work on the affected environment and development of alternatives tasks ongoing. Cultural resource review ongoing. Development of alternatives continues.
- RCPP funds – \$171,998.42 expended (34%).
- Progress reported through October 5, 2019.
- Agreement expires September 30, 2020.

### **RED LAKE WATERSHED DISTRICT**

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

- Planning ceased.
- RCPP funds expended - \$500,000.
- Last progress report received June 28, 2019.
- Development of alternatives approximately 90% completed.
- NRCS received RLWD's request to terminate the agreement July 26, 2019.
- Financial closeout completed 8/13/19.
- Agreement closeout package completed, certified, and submitted to MN NRCS G&A specialist August 28, 2019.
- Agreement expired September 30, 2019.

- Revised close out forms, requested by MN NRCS G&A specialist 11/20/19, were completed and submitted to G&A December 10, 19.

#### 68-6322-16-505 Four Legged Lake Watershed

- Planning ceased.
- RCPP funds expended - \$265,088.00.
- Last progress report received June 5, 2019.
- Evaluation of affected environment, and development of alternatives halted when Project Team could not reach consensus over elevation requirement for restoration of culvert previously illegally manipulated; MN Public Waters Rules requires 100% approval of riparian property owners to manipulate public water levels.
- Agreement closed out appx. August 13, 2019.

### **ROSEAU RIVER WATERSHED DISTRICT**

#### 68-6322-16-512 Beltrami Island State Forest Watershed Project

- Amendment 1 approved June 18, 2019 for a one-year extension and a reduction of the project budget by \$84,735 (\$59,315 Fed/\$25,420 SLO).
- RRWD informed NRCS on November 19, 2019 it wants to terminate agreement.
- Scope of EA/EIS and affected environment task on going.
- RCPP funds - \$133,461.04 expended (30%). Last payment requested was for the quarter ending June 30, 2019.
- Progress reported through 12/31/2018.
- Agreement expires September 30, 2020.

#### 68-6322-16-515 Whitney Lake Watershed Project

- Amendment #1 approved June 20, 2019 for a one-year extension and an increase of the project budget by \$84,735 (\$59,315 Fed/\$25,420 SLO).
- NRCS returned comments for Review Point 5 – environmental consequences. A phase 2 cultural resource investigation is needed. Additional planning is recommended to support determination of the preferred alternative for submittal of RP #6.
- RCPP funds - \$500,000 expended (89%).
- Progress reported through 12/31/18.
- Agreement expires September 30, 2020

### **SAND HILL RIVER WATERSHED DISTRICT**

#### 68-6322-16-522 Upper Sandhill River Watershed

- SHRWD and NRCS will consult with each other again about the need to extend this agreement one additional year at no cost. A revised timeline for the statement of work provided by SHRWD earlier may need to be updated.
- Review Points 2 & 3 - purpose and need, scope of EA, and affected environment (inventory resources & analyze the resource data) were submitted to NRCS for review & comments November 27, 2019.
- RCPP funds - \$153,326.83 expended (31%).
- Progress reported through September 30, 2019.



- Agreement expires May 31, 2020.

### **TWO RIVERS WATERSHED DISTRICT**

#### **68-6322-16-513 Klondike Clean Water Retention Project #11**

- Amendment 1 approved August 21, 2019 for a one year extension at no additional cost.
- A draft of Review Point 3 - resource inventory and analysis for affected environment, desired future conditions for indicators, and determination of target values received November 29, 2019.
- Development of the no action alternative and development of additional alternatives are substantially complete. Submittal of RP #4 - Development of Alternatives is expected at end of December 2019.
- RCPP funds - \$170,994.01 expended (34%).
- Progress reported through 5/23/2019.
- Agreement expires September 30, 2020.

### **WILD RICE RIVER WATERSHED DISTRICT**

#### **68-6322-16-506 Moccasin Creek Sub-watershed**

- Amendment 1 approved September 18, 2019 for a one-year extension at no cost.
- RCPP funds - \$238,800.78 expended (48%).
- Last progress report received October 18, 2019.
- Inventory of resources continues, and development of alternatives continues.
- Agreement expires September 30, 2020.

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

- Amendment 1 approved September 18, 2019 for a one year at no additional cost.
- Inventory and analysis of resources continues, and development of alternatives are being developed.
- RCPP funds - \$237,495.0941 expended (47%).
- Progress reported through June 30, 2019.
- Agreement expires September 30, 2020.

#### **68-6322-16-509 Green Meadow Sub-watershed**

- Amendment approved September 18, 2019 for a one-year extension at no additional cost.
- Resources are being inventoried and the resource data is being analyzed.
- RCPP funds - \$194,896.77 expended (39%)
- Progress reported through June 30, 2019.
- Agreement expires September 30, 2020.

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

### Rush River (Cass WRD)

- NRCS agreement closed, Sponsor finishing watershed plan without NRCS funding.
- \$400,897 out of \$500,000 federal funds expended. Remaining \$99,103 back to RRRRA for use prior to May 2021 MOU end date.
- NED alternative is a 2.2 mile levee around the City of Amenia, estimated construction cost \$3.2 million.
- Final watershed plan document submitted end of September. NWMC required formatting changes prior to review and minor technical comments from ND to be addressed- those currently pending.
- Projected approval date of Jan-Feb for plan.
- Estimated design cost of \$250,00

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

- NRCS agreement closed, Sponsor finishing watershed plan without NRCS funding.
- \$424,123 out of \$500,000 federal funds expended. Remaining \$75,877 back to RRRRA for use prior to May 2021 MOU end date.
- Project involve the following final alternatives: (Alt #4 is an off-channel dry dam with two flood pools, having a combined storage capacity of 4,600 ac-ft) (Alt #5 would involve a series of 3 off-channel dry dams that have a combined storage capacity of 3,800 ac-ft). (Alt #7 is diversion channel that would serve to route flood water around the City of Crystal).
- Request letter from Sponsor to STC for NED exception is pending, expecting any day.
- Final draft watershed plan expected any day, projected approval Feb-March.
- Estimated design cost of \$

### Upper Maple River (Cass WRD)

- NRCS agreement closed, Sponsor finishing out plan without NRCS funding.
- \$500,000 out of \$500,000 federal funds expended.
- All review point items submitted for ND NRCS review, other than final formatted Watershed Plan/EA.
- Project involves the following final alternatives, (Alt #2A is a 2.3 mile long embankment with gated release, total storage capacity 546.8 ac-ft, \$11.8 million construction cost estimate)(Alt #5 is a 3.4 mile long embankment with gated release, total storage capacity 1,340 ac-ft, \$13 million construction cost estimate).

- Request letter from Sponsor to STC for NED exception is pending, expecting any day.
- Final draft watershed plan expected by Thanksgiving, projected approval Feb-March
- Estimated design cost of \$

#### NB Antelope Creek (Richland WRD)

- NRCS agreement closed, Sponsor finishing out plan without NRCS funding.
- \$500,000k out of \$500,000 federal funds expended.
- Items not yet submitted for interim review: alternatives analysis, draft EA, economic analysis, Geotech, final formatted Plan/EA.
- Project involves two separate retention structures and a diversion channel.
- Consultant hopes to have all technical work completed and into NRCS by December, and potential plan complete the final plan for submittal by February, projected approval April-May
- Estimated design cost of \$

#### Shortfoot Creek (Sargent WRD)

- NRCS agreement has an end date of March 31, 2020
- \$475,607 out of \$500,000 federal funds expended.
- Items not yet submitted for interim review: draft EA, economic analysis, final formatted Plan/EA.
- Project involves the following final alternatives: (Alt #7 is an on-channel dry dam with a storage capacity of 2,461 ac-ft)(Alt #10A involves a diversion channel and embankment to form an off-channel dry dam with a storage capacity of 2,808 ac-ft)
- On schedule to be submitted by March 2020, projected approval May-June
- Estimated design cost \$

### Tongue River (Pembina WRD)

- NRCS agreement has an end date of May 20, 2020
- \$226,500 out of \$500,000 expended to date.
- Resource inventory, H&H modeling, no-action economics work largely done.
- Alternative for gated off-channel storage in progress by Houston.
- Channel stability assessment completed by NRCS, ready to present. Design alternative for river restoration and bank full pool retention structures being put together by NRCS, will be ready to present to project team in January.
- Still on schedule.

### Forest River (Walsh WRD)

- NRCS Agreement has an end date of May 20, 2020. Has not been extended, so another year could be added.
- \$467,712 out of \$1,000,000 expended to date.
- Final alternative consists of a diversion channel with associated retention still under feasibility evaluations in the field (geotech, wetlands), but consist of bypass channel alternatives at this point.
- Additional public meetings being held.
- Still on schedule.

## Appendix 3 - Summary of RCPP Watershed Planning Activities for Period May 21, 2019 to November 20, 2019

Appendix 3: Summary of Flood Damage Reduction Activities in Red River Watershed - For Period from May 21, 2019 to November 20, 2019

|   |   |                  |                  |              |                  |                                 |               |   |              |                   |                      | Study                |                                   | Accomplishments: To November 20, 2019 |  | Total |  |
|---|---|------------------|------------------|--------------|------------------|---------------------------------|---------------|---|--------------|-------------------|----------------------|----------------------|-----------------------------------|---------------------------------------|--|-------|--|
| WD/WRD - Watershed Name   |   | Agreement Signed | Amendment Signed | Area (acres) | Plan of Work     | Purpose & Need                  | Env. Document | Env. Alternatives   | Env. Affects | Draft Plan        | Fed Incurred To Date | Estimated Study Cost |                                   |                                       |  |       |  |
| 1   | Roseau River Watershed - Beltrami Island Area Water Management Pr | 2/18/2016        | Yes              | 93,043       | 7/11/16 Scoping  | 10/16/2017, 1/8/18              | ongoing       | Ongoing   | Ongoing      |                   | \$133,461            | \$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      |                   | \$170,994            | \$714,286            |                                   |                                       |  |       |  |
| 3   | Middle-Snake-Tamarac Rivers Watershed - J.D. #19 East Park WMA W  | 2/18/2016        | Yes              | 66,270       | 9/26/16 Scoping  | draft 11-30-17, 9-4-18          | 8/27/2018     | preliminary work  | Ongoing      |                   | \$154,762            | \$715,680            |                                   |                                       |  |       |  |
| 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      |                   | \$213,334            | \$715,889            |                                   |                                       |  |       |  |
| 5   | Red Lake - Four Legged Lake Watershed                             | 2/10/2016        |                  | 6,253        | 7/12/16 Scoping  | 10/21/16 Draft, 6-20-18         | 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      | Ceased Planning   | \$500,000            | \$757,395            |                                   |                                       |  |       |  |
| 7   | Sand Hill - Upper Sand Hill River Watershed                       | 9/14/2016        | No               | 173,369      | 8/16/2017 Scopin | ongoing 6-30-18                 | ongoing       | Ongoing   | Ongoing      |                   | \$153,326            | \$732,360            |                                   |                                       |  |       |  |
| 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      |                   | \$194,896            | \$715,248            |                                   |                                       |  |       |  |
| 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      |                   | \$238,800            | \$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      |                   | \$237,495            | \$715,295            |                                   |                                       |  |       |  |
| 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      | 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  | 5/5/16 Draft                    | ongoing       | 5/25/16; 8/31/16  | Ongoing      | 11/19/2019        | \$424,123            | \$732,000            | Agree closed                      |                                       |  |       |  |
| 15  | Forest River - Forest River Watershed                             | *9/18/2015       | 5/11/2017        | 245,300      | 2/18/16 Scoping  | 6/22/16 Draft                   | ongoing       | 5/25/16; 8/31/16  | Ongoing      |                   | \$467,712            | \$1,428,885          | NRCS 1-yr Ext approved to 5-20-20 |                                       |  |       |  |
| 16  | Cass County Joint WRD - Upper Maple River Watershed               | 9/24/2015        | NA               | 187,006      | 1/6/16 Scoping   | 7/14/16 Draft                   | ongoing       | 2 chosen+No Action Looking at possible Env Acct rather than NED | Ongoing      |                   | \$500,000            | \$940,000            | Agreement Closed                  |                                       |  |       |  |
| 17  | Cass County Joint WRD - Rush River Watershed                      | 9/24/2015        | NA               | 141,929      | 1/6/16 Scoping   | 7/1/16 Draft                    | ongoing       | 8/2/16; 11/16/16  | Ongoing      | 11/1/2019         | \$400,897            | \$940,000            | Agree closed                      |                                       |  |       |  |
| 18  | Cass County Joint WRD - Swan Creek Watershed                      | 9/24/2015        |                  | 87,707       | 1/6/16 Scoping   | 6/29/16 Draft                   |               | 7/25/16; 11/10/16   |              | Ceased Planning   | \$187,336            | \$940,000            |                                   |                                       |  |       |  |
| 19  | Richland County WRD - North Branch Antelope Creek Watershed       | 4/26/2016        | NA               | 111,327      | 11/10/16 Scoping | 5/24/2018                       | ongoing       | preliminary work  | Ongoing      |                   | \$500,000            | \$824,000            | Agree 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       | Ongoing   | Ongoing      |                   | \$226,500            | \$799,151            | NRCS 1-yr Ext approved to 5-20-20 |                                       |  |       |  |
| 21  | Sargent County WRD - Shortfoot Creek Watershed                    | 4/25/2016        | Yes              | 74,247       | 6/28/16 Scoping  | 7/28/16 Draft                   | ongoing       | Under review  | Ongoing      |                   | \$475,607            | \$940,000            | Agreement ends 3-31-20            |                                       |  |       |  |
| 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      | rough draft 10/19 | \$500,000            | \$757,395            |                                   |                                       |  |       |  |
|   | Roseau River - Lower Roseau Lake Bottom Watershed                 | Ineligible       |                  | 109,000      |                  |                                 |               |   |              |                   |                      |                      |                                   |                                       |  |       |  |
| <b>Totals for Approved RCPP Studies</b>   |   |                  |                  | 2,242,736    |                  |                                 |               |   |              |                   | \$6,442,487          | \$16,051,697         |                                   |                                       |  |       |  |
| 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 active agreements were given 1-year extensions to 9-30-20 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, 2019 to November 20, 2019

| Name of Project                                       | WD/WRD Watershed                             | Costs from                   | Costs for                    | Cost For                         | Cost For                         | Cost For                          | Cost For                         | Cost For                      | Total Cost              | Total           |         |
|---|--|------------------------------|------------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-------------------------------|-------------------------|-----------------|---------|
|   |  | May 21, 2015 to<br>20-May-16 | May 21, 2016 to<br>20-May-17 | May 21, 2017 to<br>Nov. 20, 2017 | Nov. 21, 2017 to<br>May 20, 2018 | May. 21, 2018 to<br>Nov. 20, 2018 | Nov. 21, 2018 to<br>May 20, 2019 | May 21, 2019<br>Nov. 20, 2019 | Incurred for<br>Project | Project<br>Cost |         |
| <b>Pembina River Watershed in ND:</b>                 |  |                              |                              |                                  |                                  |                                   |                                  |                               |                         |                 |         |
| Renwick Dam Rehabilitation                            | Pembina County WRD; Tongue R. Subwatershed   | \$250,000                    |                              | \$0                              | \$0                              | \$0                               | \$0                              | \$0                           | \$8,926,418             | \$8,926,418     | Note 1  |
| Renwick Dam Gate Retrofit                             | Pembina County WRD; Tongue R. Subwatershed   | \$140,000                    |                              | \$0                              | \$0                              | \$0                               | \$0                              | \$0                           |                         | \$164,722       |         |
| Renwick Dam Emergency Action Plan                     | Pembina County WRD; Tongue R. Subwatershed   |                              | \$9,224                      | \$0                              | \$0                              | \$0                               | \$0                              | \$0                           |                         | \$79,600        |         |
| Hydrology Model - Pembina River                       | Pembina County WRD                           |                              | \$3,480                      | \$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                           |                         |                 | Note 1B |
| Detention study - Pembina River                       | Pembina County WRD                           | \$110,917                    | \$39,315                     | \$0                              | \$0                              | \$0                               | \$0                              | \$0                           | \$203,027               | \$203,027       |         |
| Detention study - local between Pembina & Park        | Pembina County WRD & Walsh County WRD        | \$6,672                      | \$0                          | \$0                              | \$0                              | \$0                               | \$0                              | \$0                           | \$56,538                | \$56,538        |         |
| Herzog Dam Gate Repair                                | Pembina County WRD; Tongue R. Subwatershed   |                              |                              |                                  |                                  | \$3,679                           | \$0                              | \$5,538                       |                         |                 | Note 1B |
| Goschke Dam Spillway Gate Retrofit                    | Pembina County WRD; Tongue R. Subwatershed   |                              |                              |                                  |                                  |                                   |                                  | \$16,008                      |                         |                 | 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                           | \$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                   |                         | \$47,400,000    | Note 1A |
| Detention study - Park River                          | Walsh County WRD & Pembina County WRD        | \$23,672                     | \$25,820                     | \$0                              | \$0                              | \$0                               | \$0                              | \$0                           | \$165,918               | \$165,918       |         |
| <b>Forest River Watershed in ND:</b>                  |  |                              |                              |                                  |                                  |                                   |                                  |                               |                         |                 |         |
| Michigan spillway                                     | Nelson County WRD                            | \$1,060,100                  | \$384,744                    | \$0                              | \$6,674                          | \$0                               | \$0                              | \$0                           | \$4,586,668             | \$4,628,853     |         |
| <b>Turtle River Watershed in ND:</b>                  |  |                              |                              |                                  |                                  |                                   |                                  |                               |                         |                 |         |
| Upper Turtle River Dam #1 Emergency Action Plan (EAP) | Grand Forks County WRD                       | \$11,707                     |                              |                                  | \$0                              | \$0                               | \$0                              | \$0                           | \$11,707                | \$11,707        |         |
| Upper Turtle River Dam #4 EAP                         | Grand Forks County WRD                       | \$10,820                     |                              |                                  | \$0                              | \$0                               | \$0                              | \$0                           | \$10,820                | \$10,820        |         |
| Upper Turtle River Dam #5 EAP                         | Grand Forks County WRD                       |                              |                              |                                  | \$0                              | \$0                               | \$0                              | \$0                           |                         | \$15,000        |         |
| Upper Turtle River Dam #8 EAP                         | Grand Forks County WRD                       | \$11,337                     |                              |                                  | \$0                              | \$0                               | \$0                              | \$0                           | \$11,337                | \$11,337        |         |
| <b>Elm River Watershed in ND:</b>                     |  |                              |                              |                                  |                                  |                                   |                                  |                               |                         |                 |         |
| Elm River Dam #1 Repair                               | Steele County WRD                            |                              |                              |                                  |                                  |                                   | \$11,471                         | \$0                           | \$11,471                | \$27,150        | Note 1B |
| <b>Rush River Watershed in ND:</b>                    |  |                              |                              |                                  |                                  |                                   |                                  |                               |                         |                 |         |
|   | Rush River WRD                               |                              |                              |                                  |                                  | \$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                           | \$14,000                | \$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                   |                         | \$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                     |                         | \$47,000,000    | Note 3  |
| McVilleville Dam                                      | Nelson County WRD                            | \$15,600                     |                              | \$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                     | \$116,853               | \$541,780       | Note 1B |
| Swan Buffalo Detention Dam #5 Improvements            | Maple River WRD                              |                              | \$0                          | \$150,098                        | \$0                              | \$0                               | \$0                              | \$0                           |                         | \$192,180       | Note 1C |
| Swan Buffalo Detention Dam #8 Improvements            | Maple River WRD                              |                              | \$0                          | \$0                              | \$0                              | \$0                               | \$0                              | \$0                           |                         | \$183,760       |         |
| Swan Buffalo Detention Dam #12 Improvements           | Maple River WRD                              |                              | \$0                          | \$116,263                        | \$0                              | \$0                               | \$0                              | \$0                           |                         | \$168,964       | Note 1C |
| Upper Maple River Dam                                 | Maple-Steele Jt. WRD - Maple River Watershed | \$5,000,000                  |                              | \$0                              | \$0                              | \$0                               | \$0                              | \$0                           | \$8,500,000             | \$8,800,000     |         |

## Appendix 4 - Summary of Partner Non-RCPP Flood Damage Reduction Activities for Period May 21, 2019 to November 20, 2019

| Name of Project                                      | WD/WRD Watershed                            | Costs from                   | Costs for                    | Cost For                         | Cost For                         | Cost For                         | Cost For                         | Cost For                      | Total Cost              | Total           |         |
|--|---|------------------------------|------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------|-------------------------|-----------------|---------|
|  |   | May 21, 2015 to<br>20-May-16 | May 21, 2016 to<br>20-May-17 | May 21, 2017 to<br>Nov. 20, 2017 | Nov. 21, 2017 to<br>May 20, 2018 | May 21, 2018 to<br>Nov. 20, 2018 | Nov. 21, 2018 to<br>May 20, 2019 | May 21, 2019<br>Nov. 20, 2019 | Incurred for<br>Project | Project         | Cost    |
| <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                           | \$28,060                | \$122,410       | Note 1B |
| Upper Wild Rice Watershed Study                      | Sargent County WRD - Wild Rice R. Watershed | \$136,000                    |                              | \$0                              | \$0                              | \$0                              | \$0                              | \$0                           | \$160,000               | \$210,000       |         |
| Storm Lake Outlet Study                              | Sargent County WRD - Wild Rice R. Watershed |                              |                              | \$0                              | \$0                              | \$0                              | \$0                              | \$0                           |                         | \$35,255        |         |
| Brummond-Lubke Dam Improvements                      | Sargent County WRD - Wild Rice R. Watershed |                              |                              |                                  |                                  |                                  |                                  | \$51,660                      |                         |                 | Note 1B |
| Silver Lake Dam Feasibility Study                    | Sargent County WRD - Wild Rice R. Watershed |                              |                              |                                  |                                  |                                  |                                  | \$10,651                      |                         |                 | Note 1B |
| <b>Bois de Sioux Watershed in MN:</b>                |   |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                 |         |
| Redpath Impoundment                                  | Bois de Sioux Watershed-Mustinka River      | \$27,388                     |                              |                                  |                                  | NR                               | \$0                              | \$66,343                      | \$8,529,907             | \$34,000,000    |         |
| North Ottawa Impoundment                             | Bois de Sioux Watershed-Rabbit River        | \$866,542                    |                              |                                  |                                  | NR                               | \$0                              | \$0                           | \$18,507,848            | \$18,900,000    |         |
| <b>Middle-Snake-Tamarac Watershed in MN:</b>         |   |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                 |         |
| New Folden   | Middle River                                |                              |                              |                                  | \$43,065                         | \$0                              |                                  | NR                            |                         |                 |         |
| Swift Coulee   | Middle River                                |                              |                              |                                  | \$17,348                         | \$0                              |                                  | NR                            |                         |                 |         |
| <b>Red lake Watershed in MN</b>                      |   |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                 |         |
| Black River Watershed                                |   |                              | \$170,684                    | \$588,665                        | \$262,090                        | \$0                              |                                  | \$83,397                      |                         |                 |         |
| West Side Flood Damage Reduction Project             |   |                              |                              |                                  |                                  | \$0                              |                                  | \$620,396                     |                         |                 |         |
| <b>Roseau River Watershed in MN:</b>                 |   |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                 |         |
| RRWMA  |   |                              |                              |                                  | \$50,751                         | \$0                              |                                  | NR                            |                         |                 |         |
| Roseau Lake  |   |                              |                              |                                  | \$318,187                        | \$0                              |                                  | NR                            |                         |                 |         |
| <b>Sand Hill Watershed in MN</b>                     |   |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                 |         |
| Ditch 80: Improvement & Establishment of Lat.1 and 2 |   |                              |                              |                                  |                                  |                                  |                                  | \$25,434                      |                         |                 |         |
| Riffle Expansion                                     |   |                              |                              |                                  |                                  | \$0                              |                                  | \$21,320                      |                         |                 |         |
| Carlson Coulee                                       |   |                              |                              |                                  |                                  |                                  |                                  | \$3,279                       |                         |                 |         |
| <b>Two Rivers Watershed in MN</b>                    |   |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                 |         |
|  |   |                              |                              |                                  |                                  | NR                               | \$0                              | \$0                           |                         |                 |         |
| <b>Wild Rice River Watershed in MN</b>               |   |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                 |         |
| Halstad Levee Improvement                            |   | \$129,803                    | \$218,665                    | \$62,256                         | \$85,749                         | \$0                              |                                  | \$1,734,495                   |                         |                 |         |
| Goose Prairie WMA                                    |   | \$11,623                     | \$35,761                     | \$5,119                          | \$70,488                         | \$0                              |                                  | \$69,102                      |                         |                 |         |
| Lower Wild Rice Corridor                             |   | \$20,621                     | \$16,925                     | \$8,167                          | \$13,127                         | \$0                              |                                  | \$17,036                      |                         |                 |         |
| <b>Red River Mainstem:</b>                           |   |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                 |         |
| Oslo Access Project                                  | Middle-Snake-Tamarac R. Watershed           |                              |                              |                                  | \$65,992                         | \$0                              |                                  | \$0                           |                         |                 |         |
| FM Diversion   |   | \$98,360,000                 | \$131,266,627                | \$40,402,817                     | \$29,369,902                     | \$19,030,810                     |                                  | \$36,686,188                  |                         | \$2,200,000,000 | Note 4  |
| Upstream Detention                                   |   |                              |                              |                                  |                                  | \$0                              |                                  |                               |                         |                 | Note 5  |
| MN EIS   |   |                              |                              |                                  |                                  | \$0                              |                                  | NR                            |                         |                 |         |
| Oxbow, Hickson, Bakke Levee                          |   |                              |                              |                                  |                                  | \$0                              |                                  | NR                            |                         |                 |         |
| Moorhead Acquisitions, Interior Levees               |   |                              |                              |                                  |                                  | \$0                              |                                  | NR                            |                         |                 |         |
| Fargo Acquisitions, Interior Levees                  |   |                              |                              |                                  |                                  | \$0                              |                                  | NR                            | \$120,000,000           | \$247,000,000   |         |

## Appendix 4 - Summary of Partner Non-RCPP Flood Damage Reduction Activities for Period May 21, 2019 to November 20, 2019

| Name of Project   | WD/WRD Watershed    | Costs from                   | Costs for                    | Cost For                         | Cost For                         | Cost For                         | Cost For                         | Cost For                      | Total Cost              | Total                  |
|---|---------------------|------------------------------|------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------|-------------------------|------------------------|
|   |                     | May 21, 2015 to<br>20-May-16 | May 21, 2016 to<br>20-May-17 | May 21, 2017 to<br>Nov. 20, 2017 | Nov. 21, 2017 to<br>May 20, 2018 | May 21, 2018 to<br>Nov. 20, 2018 | Nov. 21, 2018 to<br>May 20, 2019 | May 21, 2019<br>Nov. 20, 2019 | Incurred for<br>Project | Project<br>Cost        |
| Entire Watershed:   |                     |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                        |
| Comprehensive Watershed Management Plan   | Red River Watershed |                              |                              |                                  |                                  | \$0                              |                                  | \$0                           | \$330,000               | \$1,000,000            |
| USGS Stream Gages - Each Fiscal Year  | Red River Watershed | \$619,405                    | \$435,263                    | \$238,500                        | \$238,500                        | \$210,509                        | \$210,509                        | \$210,509                     |                         | Note 6                 |
| Regional Detention  | Red River Watershed | \$1,080                      | \$4,421                      | \$1,725                          | \$17,891                         | \$0                              | \$4,968                          | \$0                           | \$28,417                | \$985,000 Note 7       |
| Nutrient Management   | RRBC                |                              |                              |                                  |                                  | \$0                              |                                  |                               |                         |                        |
| <b>Totals for Partners Projects</b>   |                     | <b>\$106,898,307</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>\$48,492,181</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 April 2018 and September 2019. Assumed SWC cost share at 35% for engineering cost. |                     |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                        |
| Note 1B: Only RRJWRD costs shown.   |                     |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                        |
| Note 1C: Only SWC costs shown.  |                     |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                        |
| Note 2: Recent cost estimated by comparing SWC spreadsheet from April 2019 and September 2019. Assumed SWC cost share at 80% for construction.      |                     |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                        |
| Note 3: Recent cost estimated by comparing SWC spreadsheet from April 2019 and September 2019. Assumed SWC cost share at 85% for construction.      |                     |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                        |
| Note 4: \$1.4B non-federal cost; Comparison of April 30, 2019 and October 2019. 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 2019.   |                     |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                        |
| Note 7: \$230,000 non-fed., \$754,086 federal; payment shown is from RRJWRD   |                     |                              |                              |                                  |                                  |                                  |                                  |                               |                         |                        |