



# Nebraska Excess Flow Annual Operating Plan

**DSS Id:** 10

**Water Rights Id:** 13953

**Permit Type:** Temporary

**Appropriator:** Platte Valley Irrigation District

**Point of Diversion:** North Platte Diversion Dam

**Annual Operating Plan Year:** 2021

**Address:** PO Box 772 Sutherland, NE 69165

**Phone Number:** (308) 386-2272

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✓

Submitted

Status

✓

Filing Accepted

Application Filing Fee Received & NeDNR Filing Review

✎

In Progress

Application Approval

## Permit Application (*Alternate Form APA-001*)

**What Is the Recharge Application Type?** *Natural Flow*

**Source Name (From Point of Diversion)** *North Platte Canal from North Platte River*

**Diversion Type (From Point of Diversion)** *Headgate*

**Diversion Structure Name (From Point of Diversion)** *North Platte Diversion Dam*

**Maximum Capacity of Canal or Delivery Works (CFS) (From Point of Diversion)** *350*

**Quantity Desired for Recharge Appropriation (CFS)** *201*

**What is the Minimum Operational Rate of the Canal (CFS)** *20*

**What is the Earliest Diversion Date?** *04/01/2021*

**Will This Project Be Constructed under a Federal Program, Receive Federal Funding, or Have Federal Planning Assistance?** *No*

**Do You Intend to Divert Water into Recharge Facilities Other than Your Canal?** *Yes*

**How Many Recharge Facilities Will Be Utilized under This Application?** *2*

## Annual Operating Plan

### General System Operations (*AOP*)

Yes

No

Do You Use This System to Irrigate?

Diversion Begin Date

*05/01/2021*

Diversion End Date

*09/20/2021*

Delivery to Irrigators Begin Date

*06/01/2021*

Delivery to Irrigators End Date

*09/20/2021*

**Irrigation Narrative (optional)** *In a normal year, the irrigation canal generally takes water to flush the main & laterals for about 2 weeks prior to needing irrigation water. Timing is dependent on precipitation. This generally occurs around the last week of April to the first week of May. The canal does have some non-traditional row crops such as alfalfa & grass that will take a small amount of irrigation water earlier. The bulk of the irrigation occurs for corn & soybean crops, and those usually take water from late June to the first week of July and run thru September 20th. After the last round of irrigation, the canal pulls all the check boards and runs water down the canal for 10-12 days to clean out all of the piled up sand and mud to restore the bottom of the canal to a flat surface for the next year.*

**Irrigation Use Uploads (Optional)**

No files uploaded.

Yes

No

Do You Use This System to Generate Hydropower?

Yes

No

Do You Use This System for Storage?

**Narrative for All Non-excess Flow Activities That Would Affect the Ability to Divert Excess Flows (Optional)**

## Partners & Sponsors


### Sponsor 1

**Name of Entity Paying for Recharge at this Facility** *Twin Platte Natural Resources District*

**Per Acre-foot Cost Basis for Recharge at This Facility** *Recharged*

**Max Volume per Annum** *24000*

**Upload Sponsor Documents**

 [5 yr MOA for Excess Flow \(2018-2022\)- Platte Valley Contract #1011 - Signed.pdf \[https://dssdnr.nebraska.gov/filedownload/14\]](https://dssdnr.nebraska.gov/filedownload/14)

## Recharge Facilities (AOP)

### North Platte Canal

## Location & Capacity

**Name of Facility (If Only One Facility, This Is the Canal Name)** *North Platte Canal*

**Type of Facility** *Canal*

**Delivery Point Coordinates**

**Latitude** *41.18803*

**Longitude** *-101.1367*

**Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?**

**Begin Date of Constraints (Optional):**

**End Date of Constraints (Optional):**

**Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility)** *This canal does not operate under prolonged freezing conditions.*

**Diversion Rate from Stream (CFS)**  
*Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section.* *201*

**Delivery Rate (CFS)**  
*Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss.* *201*

**Anticipated Maximum Annual Diversion (AF)**  
*The upper limit of water diverted from the stream for this project facility.* *24000*

**Maximum Operational Head (FT)**  
*For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring?* *3*

**Maximum Water Surface Area (Acres)**  
*For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur.* *113.4*

**Are Engineering Drawings Available?** *No*

## Partners & Sponsors

- Twin Platte Natural Resources District** *(contract uploaded)*

## Instrumentation

### Instrument 1 - Inflow

**Name of Inflow Measurement Site** *North Platte Canal Diversion Gage*

**Geographic Coordinates of Measurement Device**

**Latitude** *41.18803* **Longitude** *-101.1367*

**Recorder Type** *Bubble*

**Recording Increments** *15 Minute*

**Live Data Feed available to NeDNR?** *Yes*

## Pits

### Location & Capacity

**Name of Facility (If Only One Facility, This Is the Canal Name)** *Pits*

**Type of Facility** *Recharge Cell*

Delivery Point Coordinates

Latitude 41.162051

Longitude -101.069666

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) This pit does not operate under prolonged freezing conditions.

Diversion Rate from Stream (CFS)

Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. 25

Delivery Rate (CFS)

Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. 25

Anticipated Maximum Annual Diversion (AF)

The upper limit of water diverted from the stream for this project facility. 3000

Maximum Operational Head (FT)

For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? 8

Maximum Water Surface Area (Acres)

For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. 18

Are Engineering Drawings Available? No

Partners & Sponsors

- Twin Platte Natural Resources District (contract uploaded)

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site Pits Inflow Measurement

Geographic Coordinates of Measurement Device

Latitude 41.162

Longitude -101.07

Recorder Type Staff Gage

Recording Increments Weekly

Live Data Feed available to NeDNR? No

## Partners & Sponsors

## Sponsor 1

**Name of Entity Paying for Recharge at this Facility** *Twin Platte Natural Resources District*

### Per Acre-foot Cost Basis for Recharge at This Facility *Recharged*

**Max Volume per Annum** 24000

## Upload Sponsor Documents

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