



**DRAFT 2022 Upper Platte River
Basin-Wide IMP Report**
Covering 2021 Activities
6/21/2022

Annual Report of the Department of Natural Resources
To Meet the Requirements of the North Platte, South Platte, Twin Platte,
Central Platte, and Tri-Basin Natural Resources Districts' Upper Platte River
Basin Integrated Management Plans for the 2020 Upper Platte River Basin-
Wide Meeting

Second report for the second 10-year increment of the IMPs and Upper
Platte River Basin-Wide Plan, adopted in September of 2019

Nebraska Department of Natural Resources
DRAFT June 21, 2022



**ANNUAL REPORT OF THE DEPARTMENT OF NATURAL RESOURCES
TO MEET THE REQUIREMENTS OF THE NORTH PLATTE, SOUTH PLATTE, TWIN
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I. INTRODUCTION

This report, presented at the annual basin-wide meeting on July 21, 2022, is intended to satisfy the tracking, reporting, and evaluation requirements of the Nebraska Department of Natural Resources (Department) as described in the Monitoring and Studies section of the North Platte, South Platte, Central Platte, Twin Platte, and Tri-Basin Natural Resources Districts' (Upper Platte Basin NRDs) integrated management plans (IMPs). The tracking, reporting, and evaluation processes are described in more detail in the Monitoring and Studies section of the IMPs. This is the second report to be filed following adoption of the second increment IMPs in September 2019 and contains information on activities from January 1, 2021, to December 31, 2021.

Each of the five Upper Platte Basin IMPs require that the Department annually track and report on the following items: 1) any surface water permits issued; 2) any dam safety permits issued; 3) any groundwater permits issued; and 4) the associated offsets/mitigations for any new permits issued. These items are included in this report. The IMPs also discuss the inclusion of information on the location, amount, and timing of the depletions caused by each permitted new or expanded water use as well as the same information for the associated offset/mitigation. To facilitate the exchange of information between the Department and the NRDs, the Department reports on the cancellation of surface water permits each year.

In addition to reporting on annual permitting activities, the Department is also required to report the following items every five years: 1) National Agricultural Statistics Service (NASS) livestock data; 2) U.S. Census Bureau population data; 3) inventory of sandpits; 4) inventory of reservoirs of less than 15 acre-feet (af); 5) any retirements of irrigated acres or other activities in the NRDs by the Department for the purpose of returning to a fully appropriated condition; and 6) offsets/mitigations for depletions resulting from increased consumptive use related to the items listed. These items, as well as the items reported annually, were analyzed as part of the 2019 Robust Review, which was completed as part of the IMP requirements. The Robust Review analysis is described in more detail in the IMPs. The full 2019 Robust Review report is available on the Department's website.

The items tracked and reported here will be used by the Upper Platte Basin NRDs and the Department to measure the success of the controls, incentive measures, and other action items in meeting the goals and objectives of the IMPs. Two evaluation processes for measuring success are described in the IMPs. The first is a yearly evaluation of the data contained in the annual report that will include a

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forecast of the balance of depletions and accretions for permitted new activities using analytical methods. The second evaluation process involves updating and running groundwater models (Robust Review) with any of the relevant data from the annual exchange along with the data that is to be collected and considered every five years. In addition to these evaluation processes, the information that is tracked and reported will also be used by the State to help meet requirements of the Platte River Recovery Implementation Program (PRRIP).

II. ACTIVITIES TO BE REPORTED ANNUALLY (JANUARY 1, 2021, THROUGH DECEMBER 31, 2021)

A. Summary

Items reported annually include permits that are issued by the Department. When a surface water or groundwater permit is reviewed, the Department assesses the potential for the permitted action to increase, decrease, or have no effect on water use. Depending on the circumstances, the applicant may be required to take action that would offset/mitigate the effect of any increase in water use. Described in each section below are the permits issued by the Department and the associated review of potential changes in the water use. The Department issued ten (10) new surface water permits and one (1) dam safety permit. Copies of the applications and orders for each permit are available in Appendix 1. More detailed information on each permit is available from the Department upon request.

B. Surface Water Applications Approved – Table 1, Pages 6 & 7

In calendar year 2021, ten (10) new surface water applications were approved. Eight (8) were temporary permits for groundwater recharge, and two (2) were temporary manufacturing permits. Temporary recharge permits only allow the diversion of streamflows in excess of already permitted uses and target flows when they are available during non-irrigation periods in the spring and fall and are intended to supply baseflow accretions back to the river. Temporary manufacturing permits are for less than ten acre-feet over one year. All temporary permits expire one year from the issued date. The conditions under which each permit can operate are specified in detail in the order for each permit (see Appendix 1).

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C. Dam Safety Application Approved – Table 2, Page 7

One dam was approved for new construction in 2021 by the NeDNR Dam Safety Division. Smart Soil Compost Dam (P-20552) was approved on 1/8/2021. According to communication with the NeDNR Dam Safety Division, Smart Soil Compost Dam is a solid waste compost holding pond used for composting undesirable materials into a suitable soil amendment or fertilizer while protecting human health and the environment. Smart Soil Compost Dam does not require a storage permit since the source of the water is diffuse runoff rather than from a stream. All the contributing drainage area into the lagoon will be from the compost facility and incidental drainage associated with the waste control. Therefore, there is no consumptive use associated with this dam and no depletion or mitigation analysis is required of this permit.

D. Offsets/Mitigations for Issued Permits

No offsets were necessary for the eight (8) surface water applications approved for the purpose of groundwater recharge because the permits would not impact state protected flows or species target flows. The Dam Safety permit issued is for one (1) dam that will not require a surface water permit, and any consumptive use increase will be considered under other IMP provisions as discussed in Section C above.

No offsets were necessary for the two (2) temporary manufacturing permits approved in 2021 because neither permit is for a new consumptive use. The Cottonwood Ranch Test permit, A-19799, repurposes existing Environmental Account water stored in Kingsley Reservoir under appropriation A-2374 and therefore does not qualify as a new use. Permit A-19790 allows a temporary non-consumptive use of up to 10 acre-feet for the purposes of compacting soil beneath a pipeline adjacent to the South Platte River. Water applied under this permit will infiltrate back to the South Platte River after use.

E. Additional Reporting of Cancelled Permits – Table 4, Pages 8 & 9

To facilitate the exchange of information between the Department and the NRDs, the Department is also reporting on the cancellation of twelve (12) surface water permits. Nine of the cancelled permits were temporary groundwater recharge permits issued for one (1) year, and the remaining three (3) permits were permits for irrigation from a natural stream. Copies of

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the applications and orders for the cancelled surface water permits can be found in Appendix 1 of this report.

F. Net Effect due to New or Expanded Permitted Activity and Offsets/Mitigations

Due to the nature of the actions permitted by the Department, there will be no change in consumptive water use in the basin and no depletion or offset/mitigation analysis and estimates were necessary for 2021 activities.

Projects for the purpose of providing accretions to the river to offset other depletions were analyzed as part of the Robust Review, which can be found at <http://upjointplanning.nebraska.gov/> Based on the analysis conducted for the Robust Review of the projects in place through 2013, the total of Nebraska's offset/mitigation efforts and depletions from new uses within the basin result in a net increase to streamflow.

A guidance document for the annual calculations, *Basin-wide Technical Committee Guidance Document – Procedures for Annual Accounting Review and Robust Review to Assist Integrated Management Planning and Facilitate Reporting to the Platte River Recovery and Implementation Program*, can be found on the Department's website at <https://dnr.nebraska.gov/sites/dnr.nebraska.gov/files/doc/water-planning/upper-platte/other/basin-wide-technical-committee-guidance20120814.pdf>.

III. ACTIVITIES TO BE REPORTED ON A FIVE (5) YEAR BASIS

For the five (5) year tracking requirements, the Department reports on changes in livestock and human populations and conducts an inventory of sandpits and reservoirs less than 15 acre-feet. The Department also reports on retirements of irrigated acres and other activities conducted for the purpose of returning to a fully appropriated condition and any offsets/mitigations necessary for depletions resulting from increased consumptive use by the items reported in this section.

The changes in livestock and human populations and other activities between calendar years 1997 and 2005 were reported in the 2010 report. Activities in this section for the 2010 calendar year were reported in the 2011 report. Updates to livestock and human population data in the 2010 and 2011 reports were made after

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errors were identified following the original publication of the reports. The inventory of sandpits and reservoirs less than 15 acre-feet for 2005 to 2010 was reported in the 2013 report. All reports prior to 2016 are available from the Department upon request. More recent reports can be found at <https://dnr.nebraska.gov/water-planning/upper-platte-basin-wide-meetings-and-annual-reports>.

Human and livestock population analyses were updated as part of the Robust Review, a report on the inventory and analysis of sandpits and reservoirs is also part of the Robust Review and can be found on the Robust Review report website: <http://upjointplanning.nebraska.gov/>.

IV. OTHER TECHNICAL ANALYSES

The reports, technical analyses, and modeling files that guided development efforts for the second increment basin-wide plan and IMPs are available at <http://upjointplanning.nebraska.gov/>.

The NRDs, the Department, and their contractors continue to work together on the maintenance and refinement of the two models for the area, the Western Water Use Management Model and the COHYST Model. These models and tools developed from them are used to conduct the analyses required by the basin-wide plan and the IMPs. Through these model updates and other work, the Department and the NRDs are preparing for the next Robust Review, which will be completed in 2023. The Department and NRDs have agreed to a scope of work, models are in development, and data are being collected, analyzed, and reviewed with next steps approved, when necessary, on a regular basis by POAC/PBC members. Technical work/input for analysis and review on the updated modeling process for the 2023 Robust Review comes from the Department, Upper Platte NRDs, and contractors for both the Department and the NRDs. POAC and PBC members, along with contractors for the Department and NRDs are also working on a Conservation Measures Phase IV project which entailed field surveys to collect information on current tillage practices which yielded data that will be used to update portions of the Robust Review models.

IV. SUMMARY

During 2021, the Department issued ten (10) new surface water permits and one (1) new dam construction approval. These permitted activities resulted in no new net depletions to the basin.

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Table 1: Surface Water Applications Approved by the Department during
Reporting Period January 1, 2021, to December 31, 2021

Appropriation Number	Approval Date	S-T-R W	Source or Canal	Use	Grant in CFS	Grant in AF	Surface Water or Groundwater Mitigation	Associated Variance
A-19747	3/9/2021	19-12-26 W	Gothenburg Canal	Temporary RC – Recharge	100.0		Variance granted pursuant to 457 Neb. Admin. Code Ch. 23 § 001.03	VAR-9261
A-19748	3/9/2021	18-10-23 W	Dawson County Diversion Dam	Temporary RC – Recharge	100.00		Variance granted pursuant to 457 Neb. Admin. Code Ch. 23 § 001.03	VAR-9262
A-19770	5/13/2021	14-12-43 W	Western Canal	Temporary RC – Recharge	176.26		Variance granted pursuant to 457 Neb. Admin. Code Ch. 23 § 001.03	VAR-9378
A-19771	5/19/2021	18-14-33 W	Paxton Hershey Canal	Temporary RC – Recharge	102.78		Variance granted pursuant to 457 Neb. Admin. Code Ch. 23 § 001.03	VAR-9374
A-19772	5/19/2021	18-14-36 W	Keith-Lincoln Canal	Temporary RC – Recharge	80.56		Variance granted pursuant to 457 Neb. Admin. Code Ch. 23 § 001.03	VAR-9375
A-19773	5/19/2021	13-14-34 W	North Platte Canal	Temporary RC – Recharge	201.00		Variance granted pursuant to 457 Neb. Admin. Code Ch. 23 § 001.03	VAR-9377

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Appropriation Number	Approval Date	S-T-R W	Source or Canal	Use	Grant in CFS	Grant in AF	Surface Water or Groundwater Mitigation	Associated Variance
A-19774	5/19/2021	12-14-33 W	Suburban Canal	Temporary RC - Recharge	77.47		Variance granted pursuant to 457 Neb. Admin. Code Ch. 23 § 001.03	VAR-9376
A-19797	11/30/2021	8-13-29 W	Tri-County Supply Canal, E65 Canal, and Phelps Canal	Temporary RC - Recharge	950.00		Variance granted pursuant to 457 Neb. Admin. Code Ch. 23 § 001.03	VAR-9465
A-19799	12/21/2021	3-14-38 W	Kingsley Reservoir via Phelps Canal	Temporary MF - Manufacturing		2000	Variance granted pursuant to 457 Neb. Admin. Code Ch. 23 § 001.04	VAR-9453
A-19790	9/8/2021	24-13-40 W	South Platte River	Temporary MF - Manufacturing	0.16	10	Variance granted pursuant to 457 Neb. Admin. Code Ch. 23 § 001.06	VAR-9429

Table 2: Dam Safety Permits Approved by the Department during Reporting Period January 1, 2021, to December 31, 2021

Plan Number	Order Date	Dam Status	S-T-R W	Project Name	Source	Use
P-20552	1/8/2021	Approved	19-11-12 W	Smart Soil Compost Dam	Platte River	Industrial Waste Lagoon

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Table 3: Municipal and Industrial Groundwater Permits issued by the Department during Reporting Period January 1, 2021, to December 31, 2021

Not Applicable to the 2022 Upper Platte Basin-Wide IMP Report

Table 4: Surface Water Permits Cancelled by the Department during Reporting Period January 1, 2021, to December 31, 2021

Appropriation Number	Modification Number	Cancellation Date	S-T-R W	Canal or Source	Use	Begin Acres	Cancelled Acres	Cancellation in CFS	Cancellation in AF
A-10240	REL-9241	1/12/2021	32-7-19 W	Dry Creek	IR – Irrigation from Natural Stream	10.0	10.0	0.14	
A-1038	REL-9287	3/23/2021	31-10-16 W	Wood River	IR – Irrigation from Natural Stream	58.6	28.7	0.14	
A-2114	REL-9288	2/17/21	15-14-35 W	Willow Creek	IR – Irrigation from Natural Stream	56.0	3.3	0.05	
A-19682	VAR-7771	2/14/2021	18-10-23 W	Dawson County Canal	RC – Recharge	N/A	N/A	100	
A-19683	VAR-7772	2/14/2021	19-12-26 W	Gothenburg Canal	RC – Recharge	N/A	N/A	100	

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Appropriation Number	Modification Number	Cancellation Date	S-T-R W	Canal or Source	Use	Begin Acres	Cancelled Acres	Cancellation in CFS	Cancellation in AF
A-19708	VAR-8941	5/13/2021	18-14-33 W	Paxton-Hershey Canal	RC – Recharge	N/A	N/A	102.78	
A-19709	VAR-8942	5/13/2021	18-14-36 W	Keith-Lincoln Canal	RC – Recharge	N/A	N/A	80.56	
A-19710	VAR-8943	5/13/2021	12-14-33 W	Suburban Canal	RC – Recharge	N/A	N/A	77.47	
A-19711	VAR-8944	5/13/2021	13-14-34 W	North Platte Canal	RC – Recharge	N/A	N/A	201	
A-19712	VAR-8945	5/13/2021	14-12-43 W	Western Canal	RC – Recharge	N/A	N/A	176.26	
A-19719	VAR-9007	7/17/2021	3-14-38 W	Phelps Canal	RC – Recharge	N/A	N/A	100	4000
A-19735	VAR-9231	11/30/2021	8-13-29 W	Tri-County Canal	RC – Recharge	N/A	N/A	950	

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Definitions

Depending on the types of permits issued or cancelled in a given year, not all definitions may be relevant to the current year's report.

Accretion	Addition to streamflow that results from an offset/mitigation action or project.
Acre-Feet (AF)	A unit of volume, commonly used to measure quantities of water used or stored equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters.
Annotation	Modification numbers or appropriation numbers also associated with the appropriation.
Application/Appropriation Number	Appropriations having docket numbers (D-) refer to claims covering rights which existed prior to April 4, 1895, or those rights that existed on the Missouri River that were covered by the law passed in 1980. Those appropriations having application numbers (A-) were filed after April 4, 1895.
Begin Acres	The amount of acres included in an original appropriation, prior to any acres being cancelled.
Cancelled Acres	The amount of acres in an appropriation that have been cancelled.
CFS/Cubic Feet per Second	The USGS defines cubic foot per second (cfs) as "the flow rate or discharge equal to one cubic foot of water per second or about 7.5 gallons per second."
Depletion	Reduction to streamflow that results from a new use of either groundwater or surface water.
Flood Control	This refers to water withdrawn from the surface water source for the purpose of protecting health and well-being of society.
GPD/Gallons per Day	This refers to the number of gallons pumped per day.
Grant in AF	This refers to the approved amount of acre-feet of water legally allowed to be pumped from a surface water source, as long as all other conditions are met.

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Grant in CFS	This refers to the approved amount of cubic feet per second of water legally allowed to be pumped from a surface water source, as long as all other conditions are met.
Instream Use	This refers to water that is appropriated for use within the stream and is not withdrawn from a surface water source.
Offset	A reduction in water use that corresponds with an increased use of water. An offset may be used as a management strategy to balance uses and supplies. The offset will have a corresponding amount, time, and location. Also referred to as mitigation.
Order Date	This is the date the Department acted upon an application for a permit to appropriate water or a modification of an existing appropriation.
Permit Number	This refers to the number of a groundwater permit, assigned by the Department. The first letters in the permit number denotes type of permit.
Plan Number	This is a unique identifier assigned by the Dam Safety Division for the required plans of dams filed in the Department.
Project Name	This name is provided by the applicant.
Relinquishment (REL)	The voluntary yielding of a surface water appropriation by the owner. By relinquishing a surface water appropriation, the owner surrenders all claims to the right to divert water and apply it to the property in accordance with the appropriation. Relinquishments may be for part or all of an appropriation. A form must be filed with the Department for any relinquishments.
Section/Township/Range	This is the legal description of where a dam, well, or water appropriation is located.
Use	This is the legally accepted and beneficial use of the water impounded by a dam, well, or water appropriation.

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Variance (VAR)	An applicant may petition the Department to file an application for a new surface water appropriation within a moratorium or stay area. This petition, also known as a "variance," if granted, would allow the applicant to file the application, and does not bind the Department to approve any application to which it relates. The variance petition must include sufficient information to indicate the proposed project is for a non-consumptive use, the applicant has a plan to offset any consumptive use, there may be unappropriated flows, the use existed prior to the moratorium, the project address a public safety issue, or the project is a temporary use less than ten (10) acre-feet for public construction.
Water Division	<p>The State of Nebraska is divided in two water divisions by statute, denoted Water Division No. 1, and Water Division No. 2, respectively. Water Division No. 1 consists of all the lands of the state drained by the Platte Rivers and their tributaries lying west of the mouth of the Loup River; and also all other lands lying south of the Platte and South Platte rivers that may be watered from other superficial or subterranean streams not tributary to the Platte River. Water Division No. 2 consists of all lands that may be watered from the Loup, White, Niobrara, and Elkhorn rivers, and Hat Creek and their tributaries, and those lands drained by the Platte River and its tributaries lying east of the mouth of the Loup River. For convenience in the administration of the surface water laws and the distribution of water, the two water divisions have been subdivided into 12 water divisions, denoted:</p> <ul style="list-style-type: none"> 1A Platte River basin, 1B Republican River basin, 1C Little Blue River basin, 1D Big Blue River basin, 1E Lodgepole Creek basin, 1F Nemaha River basin and Lower Missouri River and tributary basins, 2A Loup River basin, 2B Elkhorn River and Salt Creek basins, 2C Niobrara River basin, 2D White River and White Clay Creek basins, 2E Hat Creek basin, 2F Upper Missouri River and Tributary basins.

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Once finalized, the completed document and appendix are available from the Department website: <https://dnr.nebraska.gov/water-planning/upper-platte-basin-wide-meetings-and-annual-reports> or may be requested in paper or electronic format by contacting Ryan Kelly at (402) 471-1080 at Ryan.Kelly@nebraska.gov.

Listing of Appendices and Documents:

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Appendix 1

- Applications and Orders for Department issued surface water permits.
- Applications and Orders for Department issued dam safety permits.
- Applications and Orders for Department cancelled surface water permits.
- Notices and responses from the Department regarding groundwater industrial transfer notices received.