

North Platte Natural Resources District

**ANNUAL REPORT OF 2017 WATER USE ACTIVITIES IN THE
NORTH PLATTE NRD**



**TO MEET THE REQUIREMENTS OF THE INTEGRATED MANAGEMENT PLAN
FOR THE 2017 BASIN-WIDE MEETING**

Meeting Date: July 19, 2018



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I. INTRODUCTION

This report is intended to satisfy the North Platte Natural Resources District tracking and reporting requirements as described by the Monitoring and Studies section of the North Platte Natural Resources District Integrated Management Plan (IMP).

The 2017 report contains information on those activities required to be tracked for the period January 1, 2017, to December 31, 2017.

II. CERTIFICATIONS

No new acres were certified between January 1, 2017, and December 31, 2017.

III. APPROVED TRANSFERS

One municipal transfer was approved in calendar year 2017. Permit TA-15-001 was granted to the City of Oshkosh for two new wells to be located at a new wellfield north of the city. These wells are to replace two of the City's existing wells as primary water supply. The City entered into a surface water lease agreement with landowners along Blue Creek to offset the new depletion to Blue Creek that would result from the new wellfield.

IV. VARIANCES

No variances from NRD rules and regulations were sought or granted in calendar year 2017.

V. OTHER PERMITS

No other permits were approved between January 1, 2017, and December 31, 2017.

VI. WELL CONSTRUCTION PERMITS

The following table lists the well construction permits that were approved, cancelled, or denied between January 1, 2017, and December 31, 2017:

NRD Permit Number	Legal Description	Use	Status	Replacement	DNR Registration Number
NPRP 17001	27-19-50	Irrigation	Approved	Yes	G-051173
NPSG 17002	28-22-53	Irrigation	Approved	No*	G-183088
NPRP 17003	35-21-52	Public Water Supply	Approved	Yes	G-030237
NPSG 17004	13-22-56	Irrigation	Approved	No*	G-184081
NP 17005	25-18-44	Public Water Supply	Approved	No	G-184123
NPRP 17006	25-18-44	Public Water Supply	Approved	Yes	G-184124
NPIN 17007	11-18-47	Commercial/Industrial	Approved	No	**
NPIN 17008	11-18-47	Commercial/Industrial	Approved	No	**
NPIN 17009	11-18-47	Commercial/Industrial	Approved	No	**
NPIN 17010	11-18-47	Commercial/Industrial	Approved	No	**
NPIN 17011	11-18-47	Commercial/Industrial	Approved	No	**
NPRP 17012	2-23-49	Irrigation	Approved	Yes	G-018352
NPSG 17013	15-21-53	Irrigation	Approved	No*	**

*This is a Special Circumstance Replacement Well, as per NPNRD Rules.

**Not yet registered

VII. IRRIGATION WELL FLOW METER DATA

The ending flow meter readings for Water Year 2017 were collected during October and November 2017. The preliminary amount of ground water withdrawn for irrigation purposes in the overappropriated area (including the Pumpkin Creek Basin Ground Water Management Subarea) for Water Year 2017 was 119,027 acre-feet on 167,290 certified irrigated acres, for an average withdrawal of 8.5 acre-inches per acre. The above numbers do not include withdrawal amounts that have not yet been calculated by some other means, for users whose data could not be directly obtained from a flow meter because of, e.g., a failed flow meter.

VIII. RETIRED ACRES AND OTHER STREAMFLOW ACCRETION ACTIVITIES

Between January 1, 2017, and December 31, 2017, 394.1 groundwater-certified irrigated acres were contracted through the District for permanent retirement.

The District entered into two surface water leases with landowners holding appropriations on Enterprise Canal. The total surface water leased under these agreements, equivalent to 78 acres of

surface-water-irrigated land, will be returned directly to the North Platte River for depletions offsets, once the requisite transfer application is approved.

The District has also begun the process of working with Ducks Unlimited and landowners along Blue Creek to develop a shallow-retention groundwater recharge complex. Future reports will reflect additional details of the project as it develops.

IX. OTHER WATER BANKING ACTIVITIES

No water banking activities were conducted between January 1, 2017, and December 31, 2017.

X. MUNICIPAL AND INDUSTRIAL ACCOUNTING

The following table lists the information gathered for the municipal accounting requirement:

City	Baseline (gallons)*	2017 Use (gallons)*	2017 Population**	2017 gallons per capita per day
Bayard	151,783,533	144,965,700	1134	350.2
Bridgeport	237,176,000	70,792,840	1532	126.6
Broadwater	45,668,104			
Gering	891,820,400	695,011,786	8500	224
Minatare	61,311,333	47,183,000	806	160.4
Mitchell	173,323,000	134,737,600	1702	216.9
Oshkosh	125,128,333			
Scottsbluff	960,551,017	674,497,000	15,039	122.9
Terrytown	147,433,847			
WNJWB (includes Lyman, Henry, Morrill)	327,391,371	155,088,800		

*This includes pumping and, if applicable, discharge volumes.

**Population numbers were supplied by the municipality.

The following table lists the information gathered for the industrial accounting requirement:

Name	Location	Well Reg. #	Baseline 2001-2006 (Acres or Gallons)	2017 Use (Acres/Gallons)
Courthouse and Jail Rock Golf Club	Sec. 29, T19N, R50W	G-096426, G-056581	35.21 acres	35.21 acres
Riverview Golf and Country Club	Sec. 17 and 20, T22N, R55W	G-083316, G-083317	67 acres	67 acres
Scottsbluff Country Club	Sec. 10, T22N, R55W	G-147117, G-147118, G-147119	106 acres	106 acres
Chimney Rock Golf Course	Sec. 22, T21N, R52W	G-072722	81.25 acres	81.25 acres
Rolling Green Golf Course	Sec. 15, T23N, R57W	G-029114	46.3 acres	46.3 acres
Scenic Knolls Golf Course	Sec. 9 and 16, T23N, R56W	G-120401	63.3 acres	63.3 acres
Oshkosh Country Club	Sec. 10, T16N, R44W	G-131367	33.2 acres	33.2 acres
Western Sugar Cooperative	Sec. 30, T22N, R54W	G-074421, G-074422, G-074423, G-005567	1,125,000,000 gallons	799,161,771 gallons
Bridgeport Ethanol LLC	Sec. 03, T19N, R50W	G-117573, G-152360	130,665,048 gallons*	219,767,641 gallons

*Baseline determined by 2009-2013 usage.

XI. OTHER DATA ACQUISITION

In 2017, no new telemetry units were deployed. The District's main focus has been optimizing the system's performance and reliability. This has included (1) adding external antennas to several sites that had poor cellular connection and (2) repositioning units to provide more adequate sunlight for the solar panels that power the units. The District also repaired several units that had been damaged by livestock.