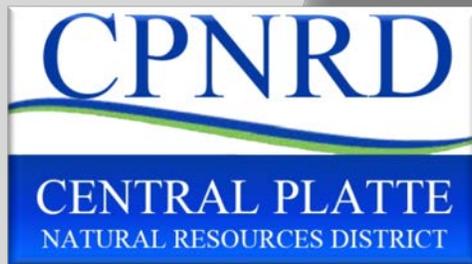


# **Central Platte Natural Resources District 2016 Annual Report of Water Use Activities in the Central Platte NRD**

**For the 2017 Platte Basin Meeting**



2017

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**2016 ANNUAL REPORT OF WATER USE ACTIVITIES IN THE CENTRAL PLATTE NRD  
TO MEET THE REQUIREMENTS OF THE INTEGRATED MANAGEMENT PLAN  
FOR 2017 PLATTE BASIN MEETING**

**I. SUMMARY OF WATER USE**

The following is a compilation of records, statistics and historic conditions of water use which have been tracked by the Central Platte Natural Resources District (CPNRD) for calendar year 2016. All information supplied for this summary is organized within a GIS database complete with the locations, attributes and metadata necessary to recreate this report in tabular form. This report has been compiled for the 2017 Platte Basin meeting.

**II. CERTIFIED IRRIGATED ACRES**

In 2006, the district began certifying historic ground water and surface water irrigated acres. In order to be certified as irrigated, the land must have been irrigated at least 2 out of the 10 years for the period of January 1, 1995 – July 26, 2004. Land within the District but outside the original State stay on newly irrigated acres (January 6, 2006) was allowed to be developed (newly irrigated) in 2005 and was certified later on in 2008-2009. The initial certification process ended on March 31, 2008; however, land is constantly coming into compliance using FSA compliant photos depicting certified irrigated boundaries and associated 578 forms of certified irrigated crops with farm and tract numbers. Since that time, additions and de-certifications to the certified irrigated acres database have occurred through December 31, 2016, with a net result of 1,028,140 certified acres.

Detailed data regarding amount and water source of certified irrigated acres *can be found in TABLE 1. Certified Acres below*. The difference in total certified acres (2010-2016) reflects newly irrigated acres as well as newly certified and re-certified acres where new evidence of irrigated crop history has been established according to our Rules and Regulations.

**Table 1. Certified Acres**

Year	Total Acres Certified	Acres of Ground Water	Acres of Surface Water	Acres of Co-Mingled
2010	1,016,589	923,520	14,968	78,101
2011	1,016,668	923,904	14,658	78,106
2012	1,021,017	928,318	14,612	78,087
2013	1,025,466	932,826	14,590	78,050
2014	1,027,288	933,633	14,536	77,686

Year	Total Acres Certified	Acres of Ground Water	Acres of Surface Water	Acres of Co-Mingled
2015	1,028,044	936,554	14,315	77,175
2016	1,028,140	936,650	14,315	77,161
Difference 10-16	11,551	13,144	-653	-940

### III. VARIANCES

#### A. Definitions

1. **Offsets-** A reduction of irrigated acres at one or more locations that serves to counter-balance or compensate for a transfer of water to another location.
2. **Transfers-** To allow for, with a CPNRD approved Variance, the consumptive use of water to be changed, (either in location or purpose) without causing an increase in depletions to the river or an impact to existing surface water or ground water users. CPNRD utilizes methodology for calculating depletions and accretions consistent with the other Platte Basin NRDs when evaluating proposed transfers to ensure that the criteria for compliance with Platte River Recovery Implementation Program (PRRIP), which includes the timing, location and amount of the depletion and corresponding offsets, are met.
3. **Variance-** To allow an exception to the stay on new irrigated acres and new consumptive uses while providing for adequate offsets or transfers to assure that there is no net increase in depletions to the river or impacts to existing surface water or ground water users.

#### B. Tracking

Variations were tracked using simple GIS polygons and attributes until 2007. By that date, it was realized that variations were beginning to occur over and over again on the same parcels of land. It was crucial to establish a transfer history on the original, historic certified acre boundary for each field where a variance occurred consecutively and changed the shape of the boundary numerous times. This was remedied by a Variance Geodatabase, which was able to track the transfers to and transfers from by date and Variance Code IDs. Therefore, it is very important, when using any future modeling techniques, to pay close attention to the yearly shape of an individual certified boundary which was affected by the variations. For example, a certified boundary in 2006 may have changed half of the acres to dry land and transferred those acres to another parcel for the year. In 2007, the same landowner may have chosen to transfer those acres back to the original certified boundary and repeat the process again in 2008. In any case, the transfers were only allowed to occur with a variance agreement, which stipulated that the net depletion to the river must remain zero.

Prior to the establishment of a water bank, all variances were transfers of water rights between landowners and no dollar amounts were exchanged. Water was not available for purchase. Transfers were termed Variances through 2008, until the CPNRD acquired water and began selling from the fully appropriated water bank accounts to individuals. Presently all Variances are given a Waterbank transaction number.

#### IV. APPROVED TRANSFERS

Between January 1 and December 31, 2016, the CPNRD approved 123 transactions of water use transfers. Each transaction may have consisted of one or more parcels of land from different sections. For the years 2006-2008 all transactions were considered variances to the CPNRD's rules and regulations. Variances (transfers of irrigated acres) were only allowed if it was determined that there were no new depletions to the Platte River and that any offsets were located "upstream" of the new use of water.

The certified acre total for 2016 involved in these transfers to new irrigated lands was 1,207 acres. The total number of certified acres used to offset the new uses was 919. For further analysis and statistics, *see TABLE 2. Transfers below*. Each transfer resulted in no net increase in stream depletions when computed using the CIR offset calculator developed from the Cooperative Hydrology Study (COHYST) databases and models.

Detailed GIS data that displays the necessary information regarding the location, timing, amount and conditions associated with each transfer is shown in the appendix.

*See Appendix ATTACHMENT 4. New Use of Groundwater 2016, and ATTACHMENT 5. 2016 Mitigations.* Maps of transfers, retirements, and purchases are included in this report.

For locations, *see map in Appendix ATTACHMENT 1. Locations of Acres Transferred 2016 and the map in Appendix ATTACHMENT 2. Locations of Retirements 2016.*

**Table 2. Transfers**

Year	Cumulative Total of Acres Certified	# of Transfers (Transactions)	Acres Transferred to New Irrigation	Transferred Offset From Certified Acres	Retired Surface Acres	Retired Ground Acres	Total Affected Acres
2006	398,000	76	768.5	777.6	0	0	1,546.1
2007	952,784.6	122	887.9	1,000.7	0	342.2	2,230.8
2008	1,013,332	97	1,004	1,032.9	689.4	351.1	3,077.4
2009	1,014,530	136	2,226	519	440.7	667.3	3,853.0
2010	1,016,589	108	659.8	494.8	899	314.1	2,367.7
2011	1,016,668	136	1,222.4	851.1	332.8	395.1	2,801.4

Year	Cumulative Total of Acres Certified	# of Transfers (Transactions)	Acres Transferred to New Irrigation	Transferred Offset From Certified Acres	Retired Surface Acres	Retired Ground Acres	Total Affected Acres
2012	1,021,017	184	2,106.3	1,183.9	21.8	146.8	3,458.8
2013	1,025,466	339	2020.1	1461.4	0	0	3,481.5
2014	1,027,288	226	2,762	1,827	64	24.9	4,677.9
2015	1,028,044	160	1,955	1,094	0	160	3,209
<b>2016</b>	<b>1,028,055</b>	<b>123</b>	<b>1,207</b>	<b>918</b>	<b>0</b>	<b>193.8</b>	<b>2,318.8</b>
<b>Total</b>	<b>1,028,055</b>	<b>1,707</b>	<b>16,819</b>	<b>11,160.4</b>	<b>2,447.7</b>	<b>2,595.3</b>	<b>33,022.4</b>

## V. WELL CONSTRUCTION PERMITS

### A. Wells

118 well permits were issued for 2016 with 1 permit being voided.

### B. Well Permit Types

Well permits by type are shown in **Table 3. Well Permits Issued by Type** below and the following is a description of the well types.

#### a. Supplemental Ground Water Wells

CPNRD issued supplemental ground water well permits (coded SG) for the district where ground water wells are constructed to supplement existing ground water wells. There were no increased irrigated acres associated with these wells unless an approved variance was granted with offset acres, although the primary use of the well was to irrigate previously certified land.

#### b. Supplemental Surface to Ground Water Well

CPNRD issued supplemental surface to ground water well permits (coded SS) for the district where ground water wells were drilled to augment surface water irrigation when surface water was not available. There was no increase in certified irrigated acres unless an approved variance was granted with offsets. Those permits were granted with the stipulation that the ground water well could not be used unless surface water was no longer available.

#### c. Replacement Wells

CPNRD issued replacement well permits (coded RP) where an existing ground water well had become unusable and needed to be replaced (decommissioned). There was no increase in certified irrigated acres associated with these well permits unless an approved variance was granted with offset acres, and the

primary use of the well was to irrigate certified land that had been irrigated previously.

d. Transfer Wells

CPNRD issued conditional use well permits (coded TF) for the district where ground water wells were drilled and water was bought or transferred to that location and no increase in consumptive use occurred. This land was then considered certified irrigated and the location where it was transferred from with a variance/waterbank transaction was considered non-irrigated and certified as such.

e. New Wells

CPNRD issued new well permits (coded NP) for the district where ground water wells were drilled and water was bought or transferred to that location and no increase in consumptive use occurred. This land was then considered certified irrigated and the location where it was transferred from with a variance/waterbank transaction was considered non-irrigated and certified as such.

f. Dewatering Wells

CPNRD issued dewatering well permits (coded DW) for the district where ground water wells were drilled to help lower the water table around residents with ground water in basements; these were considered permanent wells (over 90 days).

g. Municipal/Industrial

CPNRD issued municipal (coded MU) and industrial/commercial (coded IN) well permits for the district where municipalities/industries may have needed wells for water quantity or quality issues. Also, industrial/ commercial may be issued for commercial feedlots or such things as gravel mining operations.

h. Domestic Wells Over 50 Gallons Per Minute

There was 1 domestic well permit (coded DO) issued with a pump capacity greater than 50 gallons per minute.

i. Other Permits

j. Conversion to groundwater

CPNRD issued conversion to groundwater (coded CG) for the district where a conversion of surface water to ground water occurred.

CPNRD issued zero remediation well permits.

**Table 3. Well Permits Issued By Type**

<b>2016 Well Permit Types and Corresponding Transfers</b>		
<b>Well Permit Type</b>	<b>2016</b>	<b>Associated Transfer</b>
<b>Void</b>	<b>1</b>	
CPSG	12	2
CPSS	0	0
CPRP	85	12
CPCG	0	0
CPNP	14	5
CPDW	0	0
CPMU	2	0
CPIN	3	0
CPDO	1	0
<b>TOTAL</b>	<b>118</b>	<b>19</b>

## **VI. MUNICIPAL AND INDUSTRIAL ACCOUNTING**

### ***A. Calculating a Baseline of Municipal Consumptive Use***

CPNRD calculates baseline consumptive use for each municipality in the district based on historic consumptive use data. Consumptive use is determined from ground water pumping volumes, wastewater discharge volumes (when available), and/or computer modeling, and converted to a per capita volume. The baseline per capita volume, plus the annual population growth estimated by the Nebraska Department of Economic Development and/or U.S. Census Bureau will be used to determine annual changes in consumptive uses. Changes in consumptive use are tracked annually for each municipality through a reporting and database system administered by the CPNRD. There are 30 towns and cities within the CPNRD and the net population increase during 2010 was 1,638. Seventeen towns had decreases in population resulting in 194 acre-feet less usage. Ten towns had increases in population resulting in 323 acre-feet additional usage. The estimated 2010 net increase in water consumption was 129 acre-feet. The population for CPNRD in 2010 was 112,054. Population estimates for 2016, when available, will be used to calculate depletion offsets needed for municipal growth.

### ***B. Historic Water Use Survey***

The initial Historic Water Use Survey for municipalities was mailed on April 7, 2010, to municipalities throughout the CPNRD. Of the 30 municipalities in the district, 27 have public water supply wells. Those 27 municipalities have returned the initial survey to date.

### ***C. Certified Irrigated Cropland to Urban Development***

To account for municipal offset, CPNRD has evaluated the quantity of certified irrigated cropland that has been converted to urban development. Seven cities were examined throughout the district to determine this change as per the 2004 CPNRD certification process.

The 2005 urban development baseline was first established for the following seven cities: Silver Creek, Central City, Grand Island, Kearney, Lexington, Cozad, and Gothenburg. New urban development was identified for 2006, 2007, 2008, and 2009 within 3 miles of city limits with future plans to incorporate the entire district into this evaluation. The 2016 updates of this data have not been completed at this time.

## **VII. FLOW METER DATA**

The NRD does not require or collect pumping data for the Integrated Management Plan (IMP).

## **VIII. WATER BANKING ACTIVITIES**

### ***A. Geo-Spatial Waterbanking Software***

Planning began for the waterbanking software in 2006. A GIS company, Applied Data Consultants, was chosen to customize ArcGIS software to allow for efficiently computing the net impact to the river based on transfers of irrigation. The software directly utilized the latest COHYST crop irrigation requirement (CIR) coefficients, modeled stream depletion percentages, and computed recharge to display, track and catalog the net depletion effects to the Platte River for every polygon within a transaction. The long-term goal of the project is to ensure and provide evidence that as a result of each transfer of water rights, the net depletion to the river is zero. Below is a list of the transfer types which are tracked in our database.

The waterbank transactions are separated into five transfer type procedures:

- 1. Modifications:** Geographic modifications to existing certified acres. (changes in the shape of the polygons)
- 2. Purchases:** Procedure where a landowner or entity purchases water rights from the waterbank to transfer to newly irrigated acres or other uses. (calculated in acre-feet of impact to the river and measured in acres)

**3. Retirements:** Transactions in which the CPNRD purchases and holds a conservation easement to the water right (ground water/surface water or co-mingled.) The water right is permanently retired.

**4. Transfer To:** Any procedure where a water right is moved to allow new irrigation. The instance of a “Transfer To” will occur with a purchase where a landowner purchases water from an NRD account and then transfers the water right to his/her land. A transfer to will always accompany a “Purchase” or “Transfer From.”

**5. Transfer From:** Procedure that designates acres or acre-feet of water rights that are to remain dry land and will offset a new use. It differs from “Purchase” in that no money is exchanged from the CPNRD Water Bank.

### ***B. Over-Appropriated Area***

Water right purchases within the over-appropriated area, or whose consumptive use changes impact the over-appropriated area, are held by permanent conservation easements for the purpose of fulfilling the obligations through State Statute. These water rights are not available for sale.

In 2016, the CPNRD acquired perpetual conservation easements on water rights in Dawson County, and the estimated accretion to the Platte River from ground water retirements using the latest COHYST offset calculator is 61.46 acre feet (ac-ft).

Over-Appropriated Zone Purchases are shown in **Table 4. Over-Appropriated Zone Retirements 2016**, along with the 2016 gains to the river.

*See map in the Appendix Attachment 2. Locations of Retirements 2016.*

**Table 4. Over-Appropriated Zone Retirements 2016**

Township	Range	Section	County	Acres	Surface/Ground	TransactionID	2015 ac-ft Gain to River
8	18	10	Dawson	96	Ground	1675	43.30
9	22	10	Dawson	97.8	Ground	1686	46.49
						<b>TOTAL</b>	<b>89.79</b>

### ***C. Formulas Used for Calculating Net Depletion***

CPNRD established a water bank for the purpose of encouraging and facilitating the transfer of water between users. The NRD has and will continue to purchase or account for transfers of water use using a water budget approach that nets no

change in stream flows for a given time and location. CPNRD holds the transferred water uses in its water bank for the purposes of:

- (1) off-setting new or expanded water uses;
- (2) saving water to meet statutory requirements or interstate agreement obligations;
- (3) saving water to meet future incremental targets toward achieving a fully appropriated condition; or
- (4) future water sales to individuals as offsets for development of new consumptive uses of ground water within the district.

In determining the amount of accretions to the stream that will be placed into the water bank, due to the transfer of ground water or surface water uses, CPNRD and the Department will agree on the best available tools to utilize for calculating stream flow accretions (i.e. the “bankable” volumes of water). The calculations used at this time to determine the accretions to be put into the water bank are based on long-term average water budgets. The relationship of ground water pumping, and ground water recharge on stream flow accretions or depletions were established using the COHYST EMU MODFLOW ground water model. The ground water model was run for a fifty (50) year period and the percentage value for year 50 was used to determine the stream flow accretion or depletion for the water budget analysis.

The water budget analysis is an accounting process that considers the change from present water use to future water use, on a given tract of land. Present water use is computed as the net ground water withdrawal for an irrigated corn crop (Crop Irrigation Requirement (CIR) minus the precipitation recharge for irrigated corn). The future water use considers the effect on water use of the new land use, which is typically dry land corn or grassland with no irrigation net ground water withdrawal. This is negative and is equal to the ground water recharge for the dry land corn or pasture. The accretion to the Platte River is then computed as the change in net ground water withdrawal multiplied by the stream depletion percentage to obtain a number for the volume of water being supplied to the river.

The water banking analysis of water supply is consistent with the methods used to evaluate transfers as described in subsection II.C.4.d (2) of Chapter 5 of CPNRD’s IMP). Additionally, these calculations determine the timing and location of stream flow changes due to the transfer to the water bank and any impacts to existing ground water or surface water users. The following formulas are utilized to ensure the correct timing, location and quantity of the offsets:

**Table 5. Net Depletions**

<p><b><u>Groundwater Transfers/Retirements</u></b></p> <p><u>·Present Usage assumes Irrigated Corn</u>  <math display="block">Net\ Depletion = \% \ Depletion \times [(CIR - Recharge) \div 12] \times Acres</math></p> <p><u>·Future Usage assumes Dryland Corn</u></p>
--

$$\text{Net Depletion} = \% \text{ Depletion} \times [(\text{Recharge}) \div 12] \times \text{Acres}$$

·Net Ground water usage = Irrigated corn depletion + dryland corn depletion

- Positive Net Groundwater Usage means increased GW Withdrawal and increased Platte River Depletion
- Negative Net Groundwater Usage means increased GW recharge and increased Platte River Stream flow

**Surface Water Transfers /Retirements assuming no future ground water use.**

·Current Condition Usage assumes Irrigated Corn and Current Condition Recharge:

$$\text{SW Depletion} = [(\text{CIR}) \div 12] \times \text{Acres} + [\% \text{ depletion} \times (\text{recharge} / 12)] \times \text{Acres}$$

·Future Condition assumes Dryland Corn

$$\text{Net Depletion} = \% \text{ Depletion} \times [(\text{recharge}) \div 12] \times \text{Acres}$$

·Net Depletion of Surface Water use = SW Depletion – Dry land Condition net depletion

**Surface Water Retirements with future ground water use.**

·Current Condition Usage assumes SW Irrigated Corn and Current Condition Recharge

$$\text{SW Depletion} = [(\text{CIR}) \div 12] \times \text{Acres} - [\% \text{ depletion} \times (\text{on-farm loss} / 12)] \times \text{Acres}$$

·Future Condition assumes GW irrigated Corn

$$\text{Net Depletion} = \% \text{ Depletion} \times [(\text{CIR} + \text{onfarm loss}) \div 12] \times \text{Acres}$$

·Net Depletion of Surface Water use = SW irrigation Depletion – GW irrigation net depletion

**Feedlot Conversions (Feedlot to Irrigated Corn)**

·Consumptive use of cattle/day = 7 gal/day

·Total head of cattle x 365 days

$$\frac{365 (\text{day}) \times 7 \text{ gal/day/head}}{325,851 \text{ gal} / \text{ACFT}} \times \% \text{ depletion} - \text{Future use (CIR)} = \text{Future Net Depletion}$$

**D. Fully Appropriated Area**

CPNRD has implemented certain rules within the fully appropriated area to achieve and/or maintain a balance between water uses and water supplies so that the economic viability, social and environmental health, safety, and welfare can be achieved and maintained for both near-term and long-term, considering the effects on existing surface water appropriators and ground water users.

Any person who desires to transfer the location of use of ground water from wells located within the district may do so only after applying for and obtaining approval from the CPNRD on forms provided by CPNRD. The transfer of location of use and the withdrawal of use at the new location shall be consistent with all applicable state statutes, ground water management plans and goals, and rules and regulations of the CPNRD. In addition, such transfers shall be conditioned upon and limited to transfers in which the land, where the right is transferred from, remains in dry land agricultural use. Once granted, such permits will remain in force for the period of time covered by the transfer or until the owners of the wells that are the subject of such transfer notify the CPNRD in writing that the permit should be cancelled, or until the CPNRD Board of Directors determine that such transfers are no longer in the best interest of the public.

**E. Area with Impacts to the Platte River below Chapman**

CPNRD adopted a new rule to their Rules and Regulations for Groundwater Use in Fully and Over Appropriated Areas on April 26<sup>th</sup>, 2012 in conjunction with their

IMP and the Department. This new rule allows the CPNRD Board of Directors to grant variances to the CPNRD Rules and Regulations for Groundwater Use in Fully and Over Appropriated Areas for an area that impacts the Platte River below Chapman, Nebraska. These impacts will not have to be offset as long as the CPNRD or the Department determine that any of these new uses are not causing an adverse effect to the Platte River below Chapman.

The CPNRD Board established an application period of February 28<sup>th</sup> through April 15<sup>th</sup> for the year 2012, with applicants being notified of the status of their application by April 30<sup>th</sup>. For the crop years thereafter the board has approved if applications will be taken from October 1<sup>st</sup> through November 30<sup>th</sup> with applicants being notified of the status of their application by February 1<sup>st</sup>.

The CPNRD Board of Directors can approve the new use of 2,500 acres or 250 acre feet (500 acre feet according to the Integrated Management Plan)\* (*source cited below*) depletion to the Platte River. To be eligible, the applicant must be in compliance with all District regulations and programs and certify that they are in compliance with all Federal and State programs.

*\*2012 CPNRD/NDNR Integrated Management Plan. Chpt. 5, Section III, (c) Variances. Pg.18*

The Board of Directors established a ranking system for determining which applications would be approved, with: (1) fewer acres have a higher ranking, (2) the least depletion on the Platte River having a higher ranking, and (3) other items the CPNRD Board may determine. A non-refundable application fee of \$100 on all applications up to 10 acres and \$150 for all applications over 10 acres are and will be applied. The applications are only good for the current application period and cannot be carried over to the next year.

All existing Rules and Regulations dealing with variances and transfers apply in the area with impacts to the Platte River below Chapman except those dealing with the time that offsets are required. If the CPNRD and/or the Department determine the new uses are causing an adverse impact to existing surface water appropriators and/or groundwater users, sufficient numbers of the new uses will be required to provide offsets to the Platte River to mitigate the impacts to the long term beneficial uses.

The Board of Directors will determine a method of selecting those required to make offsets. The plan for development must be implemented during the calendar year which it was approved except for the 2012 calendar year which had to be implemented by the 2013 growing season. Any application granted is tied to the tract of land for which it was applied and is non-transferable.

## ***F. Summary of all Waterbanking Activities***

1. By the close of 2016, the CPNRD Water Bank had a balance of 2,652 acre feet of water rights available for offset in the over-appropriated area.
2. The distribution of all waterbanking activities as they correspond to the PBHEP Priority Zone Curves are shown in the *Appendix ATTACHMENT 6. Percentage Summary of Acres by Priority.*
3. CPNRD policy is to allow the purchase of water rights from the fully-appropriated water bank accounts, as long as the land that the water rights are transferred to are downstream (East) or within one mile of a North/South line of the parcel to be offset. There were zero transactions involving water bank purchases in 2016.
4. Approved transfers made in 2016 are based on COHYST EMU 50 year stream depletion values averaged by section. Yearly estimates of accretions and depletions to the Platte River for the next 50 years are shown in a graph *See Appendix Attachment 7. 2016 CPNRD Certified Irrigated Acreage Transfers Estimated Effect on the Platte River.* These accretions and depletions shown in the attachment were estimated using the 1999, Hunt methodology\* (*source cited below*) for the PBHEP Zones established along the Platte River. Locations of the acres transferred are shown on map *see the Appendix Attachment 1. Locations of Acres Transferred 2016.*

\*Hunt, B., 1999. *Unsteady stream depletion from ground water pumping. Ground Water, 37(1), 98-102.*

## IX. OTHER STREAM FLOW ACCRETION ACTIVITES

CPNRD has a variety of proposed projects which may positively affect Platte River Stream flows. The following is a list of projects being studied:

1. Elm Creek Reservoir- has multiple uses including flood control, storage and release of Platte River flows for (PRRIP) purposes and recreation.
2. Rehabilitation of Surface Water Canals- Cozad, Thirty Mile, and Southside (Orchard Alfalfa). The canals will be used for their original purpose, surface water irrigation delivery; as well as for retiming Platte River flows to enhance target flows for endangered species. The retiming of Platte River flows will be accomplished by diverting flows excess to target flows to recharge the ground water system or by transferring surface water irrigation rights to instream flows, which will be diverted from the canal back to the river. A summary of these canal operations are provide in the Appendix under **Attachment 9 CPNRD 2016 Canal Operations Information.**

3. Conjunctive Water Management Studies- currently being conducted with other partners: DNR, Twin Platte NRD, and Nebraska Public Power District (NPPD) to look at surface water and ground water management options with the goal of ensuring that the supplies of surface and ground water in the Platte basin are optimized and managed efficiently with maximum benefits and minimum waste and in a manner consistent with State and local policies. The studies and analysis for these projects are not yet completed.

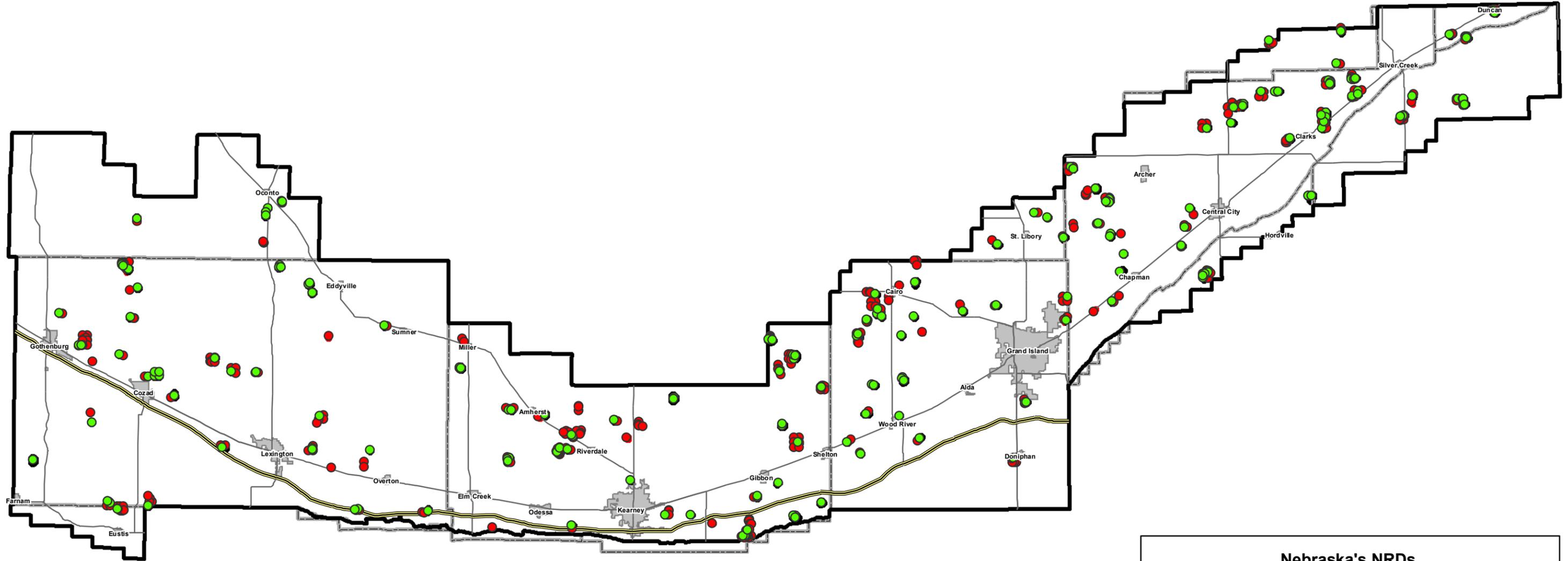
## **X. GROUND WATER LEVELS**

The tracking and reporting of ground water levels are not required in the IMP.

## **XI. APPENDIX**

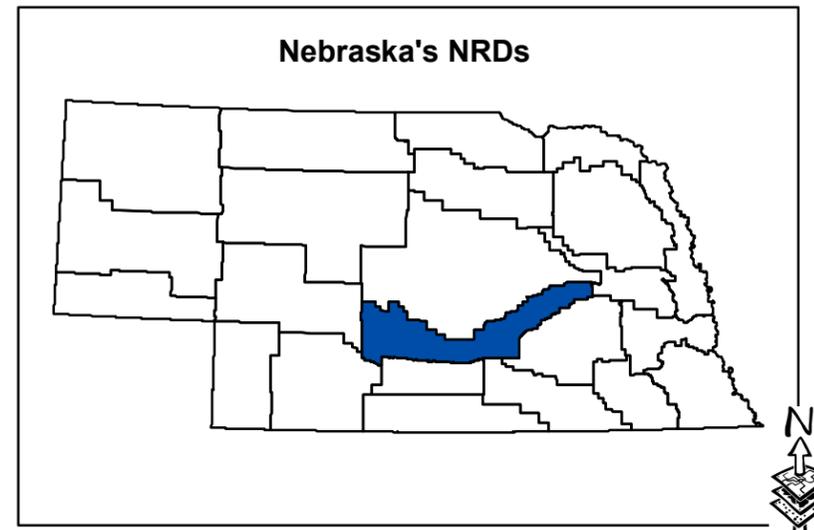
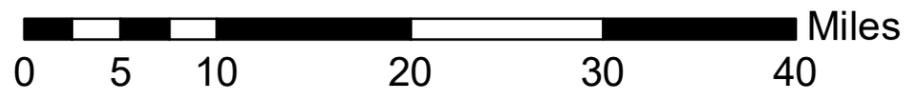
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ATTACHMENT 5.	Mitigations 2016	(5 pages)
ATTACHMENT 6.	Percentage Summary of Acres by Priority Zone	(1 page)
ATTACHMENT 7.	2016 CPNRD Certified Irrigated Acreage Transfers Estimated Effect on the Platte River	(1 page)
ATTACHMENT 8.	Retirements 2016	(1 page)
ATTACHMENT 9.	Central Platte NRD Canal Operations Information	(4 page)

# Locations of Acres Transferred 2016



**Transfers With No New Net Depletion**

- Newly Irrigated Acres
- Mitigation



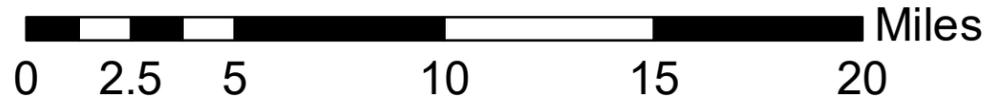
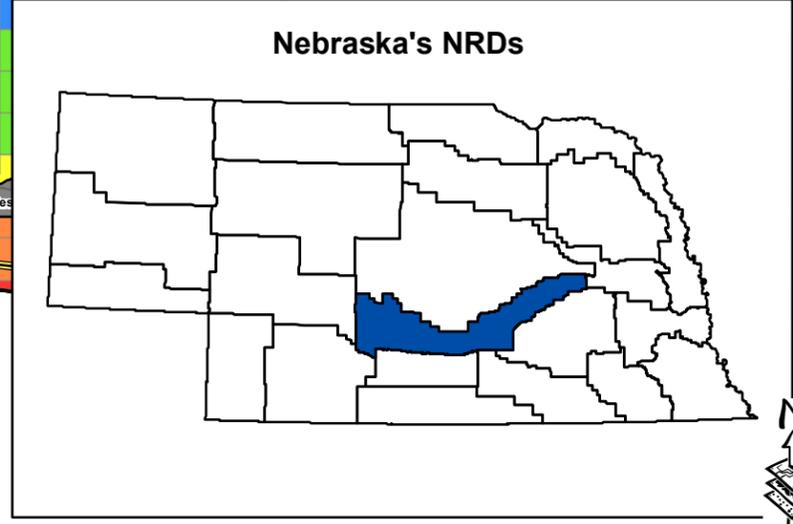
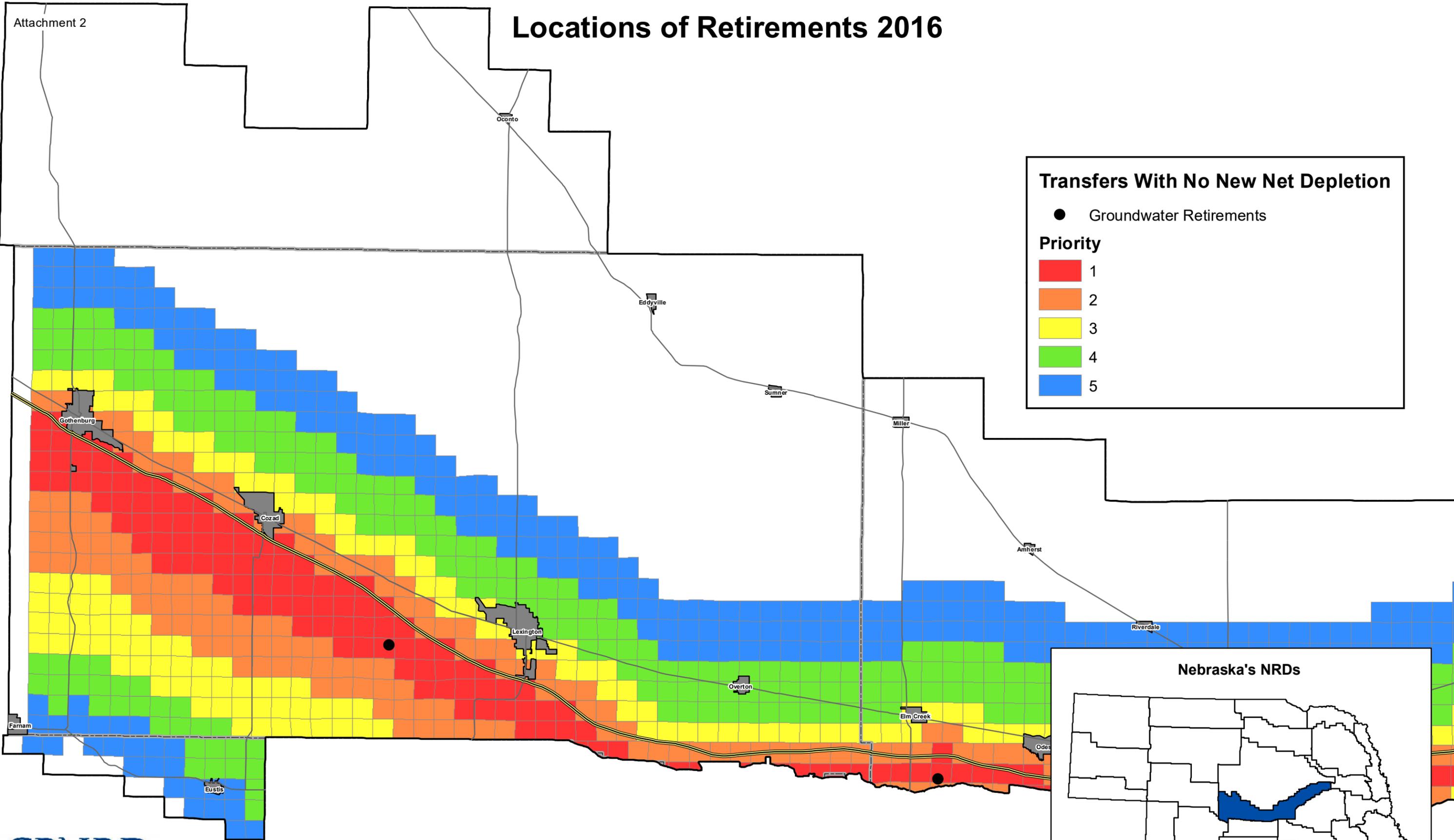
# Locations of Retirements 2016

**Transfers With No New Net Depletion**

- Groundwater Retirements

**Priority**

Red	1
Orange	2
Yellow	3
Light Green	4
Blue	5



NRD_abbrev	NRD_PermitNo	PermitHdr_Name	PermitDate	ImplementYear	Section	Township	Range	E_W	DNR_WellRegNo	ReplacementWell	OldWell_Status	MitRespParty	AssocTransf
CPNRD	CPRP10-16-001	Glen Kegley Trust	1/28/2016	2016	30	10	15	w	G-062354	Y	decomm		No New Use
CPNRD	CPRP10-16-001	Buffalo Co. School	1/26/2016	2016	10	8	16	w	G-017916	y	decomm.		No New Use
CPNRD	CPRP10-16-003	St. Vet. Home	2/26/2016	2016	21	9	15	w	G-013010	Y	decomm.		No New Use
CPNRD	CPNP10-16-004	City of Kearney	2/26/2016	2016	10	8	16	w	G-179501				No New Use
CPNRD	CPNP10-16-005	City of Kearney	2/26/2016	2016	10	8	16	w	G-179500				No New Use
CPNRD	CPRP10-16-006	Jameson Drilling	3/7/2016	2016	6	10	17	w	G-142802	y	decomm.		1516
CPNRD	CPNP10-16-007	Ken Woitaszewski	3/8/2016	2016	20	10	13	w	G-179054				1600
CPNRD	CPRP10-16-008	R Gang LLC	3/8/2016	2016	33	10	13	w	G-106106	y	decomm.		1664
CPNRD	CPRP10-16-009	R Gang LLC	3/8/2016	2016	33	10	13	w	G-000482	y	decomm.		1664
CPNRD	CPRP10-16-010	Miracle Farms	3/8/2016	2016	22	9	14	w	G-026769	y	decomm.		No New Use
CPNRD	CPNP10-16-011	Sam Schrock	3/17/2016	2016	23	9	16	w	G-179202				1597
CPNRD	CPRP10-16-012	Richard Summers	3/18/2016	2016	11	8	14	w	G-011585	y	decomm.		1606
CPNRD	CPSG10-16-013	Vesttra LLC	3/21/2016	2016	15	9	13	w	A-003897B	y	decomm.		No New Use
CPNRD	CPSG10-16-014	Pamela Soderholm	4/6/2016		3	9	14	w	not drilled 11/2/16				
CPNRD	CPRP10-16-015	Randall Schroer	4/14/2016	2016	6	9	15	w	G-041888	y	decomm.		No New Use
CPNRD	CPRP10-16-016	Eaton Corp.	5/4/2016	2016	24	9	15	w	G-128187	y	decomm.		No New Use
CPNRD	CPRP10-16-017	Brian Riessland	5/12/2016	2016	21	10	17	w	A-005797B	y	decomm.		No New Use
CPNRD	CPRP10-16-018	NE Board of Ed.	5/24/2016	2016	17	8	15	w	G-039436	y	decomm.		No New Use
CPNRD	CPRP10-16-019	Thomas Larson	6/23/2016	2016	17	9	15	w	G-006731	y	decomm.		No New Use
CPNRD	CPMU10-16-020	Village Riverdale	7/7/2016	2016	6	9	16	w		back-up well			
CPNRD	CPRP10-16-021	Trampe Bro.	7/25/2016	2016	10	8	17	w	G-010600	y	decomm.		No New Use
CPNRD	CPRP10-16-022	Clyde Headley	8/2/2016	2016	12	10	13	w	G-063336	y	decomm.		No New Use
CPNRD	CPRP10-16-023	William Packer	12-Aug	2016	17	10	13	w	G-068977	y	decomm.		No New Use
CPNRD	CPNP10-16-024	Buffalo Co. School	9/6/2016	2016	10	8	16	w	G-180685				
CPNRD	CPRP10-16-025	Lavonne Hebb Trust	9/26/2016	2016	2	8	17	w	G-045311	y	decomm.		No New Use
CPNRD	CPSG10-16-026	Don Haller	10/13/2016	2017	21	11	13	w					1680
CPNRD	CPRP10-16-027	Wolford Trust	11/2/2016	2017	36	9	15	w	G-010358	y	decomm.		No New Use
CPNRD	CPRP10-16-028	Kent Trampe	11/14/2016	2017	25	10	17	w	G-009493	y			Luke
CPNRD	CPNP10-16-029	City of Kearney	11/28/2016	2017	19	9	15	w	was cert. irr.	city park			
CPNRD	CPRP10-16-030	Kearney Mun. Airport	12/9/2016	2017	22	9	15	w	G=013002	y	decomm.		No New Use
CPNRD	CPRP21-16-001	John Block	3/28/2016	2016	21	14	25	w	G-009153	y	decomm.		1207
CPNRD	CPRP21-16-002	Leigh Mc Neal	3/28/2016	2016	18	13	23	w	G-020544	y	decomm.		1576
CPNRD	CPRP21-16-003	Richard Walter	8/15/2016	2017	5	13	21	w	G-009487	y	decomm.		No New Use
CPNRD	CPDO24-16-001	Evangel Free Church	2/17/2016	2016	10	11	25	w					Heat Pump
CPNRD	CPRP24-16-002	Patrica Moon	2/22/2016	2016	22	9	22	w	G-019107	y	decomm.		No New Use
CPNRD	CPRP24-16-003	Chris Henry	3/3/2016	2016	10	10	23	w	G-016165	y	decomm.		No New Use
CPNRD	CPRP24-16-004	Kinnan Family LTD	3/16/2016	2016	32	11	22	w	G-005721	y	decomm.		No New Use
CPNRD	CPRP24-16-005	Don Butler	3/17/2016	2016	12	10	23	w	G-004878	y	decomm.		No New Use
CPNRD	CPRP24-16-006	Dirt LLC	3/21/2016	2016	36	10	21	w	G-005950	y	decomm.		No New Use
CPNRD	CPRP24-16-007	William Fellers	3/22/2016	2016	16	10	21	w	G-001925	y	decomm.		No New Use
CPNRD	CPPR24-16-008	Steve Neil	4/6/2016	2016	2	9	23	w	G-002186	y	decomm.		No New Use
CPNRD	CPRP24-16-009	Michael Commins	4/19/2016	2016	28	11	22	w	G-006142	y	decomm.		No New Use

CPNRD	CPRP24-16-010	Harold Heins	4/19/2016	2016	20	11	22	w	G-000026	y	decomm.		No New Use
CPNRD	CPRP24-16-011	Kline Farms	4/25/2016	2016	13	9	21	w	G-005284	y	decomm.		No New Use
CPNRD	CPRP24-16-012	Melvin & Beulah John	6/6/2016	2016	14	12	19	w	G-102628	y	decomm.		No New Use
CPNRD	CPRP24-16-013	Thomas Priel	6/27/2016	2016	21	9	20	w	G-058290	y	decomm.		No New Use
CPNRD	CPRP24-16-014	Smith Bros	7/5/2016	2016	29	9	19	w	G-017050	y	decomm.		No New Use
CPNRD	CPRP24-16-015	Stan McFarland	7/14/2016	2016	36	13	21	w	G-038129	y	decomm.		No New Use
CPNRD	CPRP24-16-016	Kinnan Farms & Larry	7/18/2016	2016	29	11	22	w	G-000510	y	decomm.		No New Use
CPNRD	CPIN24-16-017	Pigeon Ranch	7/25/2016	2016	27	11	20	w	G-180877				No New Use
CPNRD	CPRP24-16-018	Midwest Feed & Grain	8/1/2016	2016	24	10	22	w	G-012436	y	decomm.		No New Use
CPNRD	CPRP24-16-019	Terry Crawford	8/2/2016	2016	3	9	22	w	G-005941	y	decomm.		No New Use
CPNRD	CPRP24-16-020	John Yeutter	8/8/2016	2016	25	9	24	w	G-013263	y	decomm.		No New Use
CPNRD	CPRP24-16-021	Central 80 Farms	8/16/2016	2016	10	9	20	w	G-027586	y	decomm.		No New Use
CPNRD	CPNP24-16-022	Downey Drilling	9/8/2016	2017	9	9	21	w					No New Use
CPNRD	CPNP24-16-023	Paulsen Inc.	9/9/2016	2017	22	11	25	w					No New Use
CPNRD	CPRP24-16-024	Richard Cooney	11/7/2016	2017	6	8	19	w	G-020138	y	decomm.		No New Use
CPNRD	CPRP24-16-025	Central 80 Farms	11/7/2016	2017	15	9	20	w	G-130417	y	decomm.		No New Use
CPNRD	CPNP24-16-026	Scheller Enterprise Inc.	11/18/2016	2017	21	10	20	w	trans. within sec.				Luke
CPNRD	CPRP24-16-027	Central 80 Farms	11/21/2016	2017	23	9	20	w	G-110675	y	decomm.		No New Use
CPNRD	CPRP24-16-028	Haymaker Feeds	12/8/2016	2017	11	10	23	w	G-0180083	y	decomm.		No New Use
CPNRD	CPSG40-16-001	David Luth	2/12/2016	2016	15	10	12	w	G-179095				1549
CPNRD	CPRP40-16-002	Delbert Stueven	2/22/2016	2016	27	11	10	w	G027098	y	decomm.		No New Use
CPNRD	CPRP40-16-003	Zack Mader	3/10/2016	2016	36	12	10	w	G-005665	y	decomm.		No New Use
CPNRD	CPSG40-16-004	Bradley Jones	3/11/2016	2016	32	9	10	w	G-179383	y	decomm.		No New Use
CPNRD	CPNP40-16-005	Andrew Woitaszewski	4/6/2016	2016	23	12	12	w	G-179942				1669
CPNRD	CPNP40-16-006	Patty Cummings	5/12/2016	2017	26	11	12	w					No New Use
CPNRD	CPSG40-16-007	Richard Deardorf	6/6/2016	2016	32	12	11	w					No New Use
CPNRD	CPRP40-16-008	Robert Allen	6/21/2016	2016	13	11	12	w	G-012416	y	decomm.		No New Use
CPNRD	CPIN40-16-009	Byron Ford	6/24/2016	2016	25	12	12	w	G-180243				No New Use
CPNRD	CPRP40-16-009	Louise Ford ETAL	6/24/2016	2016	24	12	12	w	G-020333	y	decomm.		No New Use
CPNRD	CPNP40-16-010	GI Public School	7/15/2016	2017	21	11	9	w	G-180557				No New Use
CPNRD	CPRP40-16-011	George Uden	7/19/2016	2016	27	9	11	w	G-087033	y	decomm.		No New Use
CPNRD	CPRP40-16-012	Ron Woitaszewski	29-Jul	2016	19	12	11	w	G-069552	y	decomm.		No New Use
CPNRD	CPRP40-16-013	Robyn Dvoracek	7/29/2016	2016	22	10	11	w	G-095290	y	decomm.		No New Use
CPNRD	CPRP40-16-014	Ray Faz	7/29/2016	2016	2	11	9	w	G-009706	y	decomm.		No New Use
CPNRD	CPNP40-16-015	Husker Harvest Days	7/29/2016	2016	25	11	11	w	G-180615				No New Use
CPNRD	CPIN40-16-016	Platte River In. Park	8/2/2016	2016	13	11	11	w	G-175677				No New Use
CPNRD	CPRP40-16-017	Country Club	8/10/2016	2016	28	11	9	w	G-180163	y	decomm.		No New Use
CPNRD	CPRP40-16-018	Rodney Rathman	8/16/2016	2016	18	11	11	w	G-070494	y	decomm.		No New Use
CPNRD	CPSG40-16-019	City of Wood River	10/4/2016	2017	19	10	11	w					No New Use
CPNRD	CPRP40-16-020	Dorthea Dieken	10/10/2016	2017	25	9	11	w	G-056139	y	decomm.		No New Use
CPNRD	CPRP40-16-021	Leota Tyner	10/24/2016	2017	13	11	12	w	G-000696	y	decomm.		No New Use
CPNRD	CPRP40-16-022	Sea-Hubbert Farms	12/2/2016	2017	4	10	11	w	G-013867	y	decomm.		Dan
CPNRD	CPRP40-16-023	Gary Graf	11/21/2016	2017	34	11	9	w	G-009271	y	decomm.		No New Use

CPNRD	CPRP40-16-024	Wilbur Spiels	12/2/2016	2017	13	12	11 w	G-073948	y	decomm.		No New Use
CPNRD	CPRP41-16-001	H.E. LAWS Farms	7/27/2016	2016	11	13	5 w	G-057751	y	decomm.		No New Use
CPNRD	CPRP41-16-002	Larry Cooper	12/19/2016	2017	12	13	5 w	G-104949	y	decomm.		No New Use
CPNRD	CPNP41-16-003	Larry Cooper	12/19/2016	2017	1	13	5 w					1622
CPNRD	CPRP47-16-001	Pat Rock	3/9/2016	2016	2	13	9 w	G-070987	y	decomm.		No New Use
CPNRD	CPRP47-16-002	James Wieck	6/29/2016	2016	19	13	9 w	G-044356	y	decomm.		No New Use
CPNRD	CPRP47-16-003	Charles Helgoth	7/29/2016	2016	28	13	9 w	G-054914	y	decomm.		No New Use
CPNRD	CPSG47-16-004	James Wieck	7/29/2016	2016	19	13	9 w	G-180876	y			No New Use
CPNRD	61-16-001	Void										
CPNRD	CPRP61-16-002	Billy Monte Williams Trust	2/1/2016	2016	13	15	6 w	G-177731	y	decomm.		No New Use
CPNRD	CPMU61-16-003	Covenant Cedars	3/3/2016	2016	9	13	5 w	G-179485				No New Use
CPNRD	CPRP61-16-004	Jasson Kuskie	3/17/2016	2016	32	15	6 w	G-049887 A	y	decomm.		No New Use
CPNRD	CPRP61-16-005	Thies Farms	4/7/2016	2016	17	15	5 w	G-044986	y	decomm.		No New Use
CPNRD	CPRP61-16-006	Thies Farms	4/7/2016	2016	17	15	5 w	G-009817	y	decomm.		No New Use
CPNRD	CPRP61-16-007	Jerry Bell	4/25/2016	2016	26	16	3 w	G-032080	y	decomm.		No New Use
CPNRD	CPRP61-16-008	Marvin Kyes	6/8/2016	2016	2	14	7 w	A-004362	y	decomm.		No New Use
CPNRD	CPRP61-16-009	Ron McNeff	7/15/2016	2016	17	14	8 w	A-004192	y	decomm.		No New Use
CPNRD	CPRP61-16-010	Kurt Kuhn	7/21/2016	2016	8	15	5 w	G-010350 B	y	decomm.		No New Use
CPNRD	CPRP61-16-011	Greg Senkbile	7/28/2016	2016	8	13	6 w	G-018814	y	decomm.		No New Use
CPNRD	CPRP61-16-012	Tracy Condon	7/29/2016	2016	36	14	7 w	G-008470	y	decomm.		No New Use
CPNRD	CPRP61-16-013	Robert Willian	8/12/2016	2016	28	12	8 w	G-015902	y	decomm.		No New Use
CPNRD	CPRP61-16-015	Kles Denning	9/6/2016	2017	30	15	5 w	G-098127	y	decomm.		No New Use
CPNRD	CPSG61-16-016	Steve Herbig	11/7/2016	2017	26	15	6 w					No New Use
CPNRD	CPRP61-16-017	Stan Ferris	11/18/2016	2017	24	15	7 w	G-050028	y	decomm.		No New Use
CPNRD	CPSG61-16-018	Julia Schank	11/23/2016	2017	8	13	5 w					No New Use
CPNRD	CPSG61-16-019	Russall Svitak	12/8/2016	2017	17	13	8 w					No New Use
CPNRD	CPRP63-16-001	Albin Ziemba	1/4/2016	2016	26	16	4 w	G-071317	y	decomm.		No New Use
CPNRD	CPRP63-16-002	Dr. Simonson	3/31/2016	2016	21	16	5 w	G-108726	y	decomm.		No New Use
CPNRD	CPRP63-16-003	Bruce Schneider	4/14/2016	2016	15	16	4 w	G-175815	y	decomm.		1621
CPNRD	CPRP63-16-004	Bruce Schneider	4/14/2016	2016	15	16	4 w	G-175816	y	decomm.		1621
CPNRD	CPRP63-16-005	Bruce Schneider	4/14/2016	2016	15	16	4 w	G-179136	y	decomm.		1621
CPNRD	CPRP63-16-006	Bruce Schneider	4/14/2016	2016	15	16	4 w	G-179135	y	decomm.		1621
CPNRD	CPSG72-16-001	Lola Urban	12/30/2016	2017	21	15	2 w					No New Use

NRD_PermitNo	PermitHldr_Name	PermittedDate	ImplementYear	NU_Section	NU_Township	NU_Range	NU_E_W	TWNRRNGSECT	NU_CropLvstck	NU_ZoneCurveNo	NU_Annual_CU	NU_DNR_WellRegNo	Well_Id_As	NU_TransferAcres	AssocWellPermit	AssocVar	FIELD_ID
1560	66	1/14/2016	2016	11	12	24	W	12N24W11	1		-2.54161830000		160208	6.35579360000			1224W11-288714
1560	66	1/14/2016	2016	11	12	24	W	12N24W11	1		-5.09520845000		160208	12.74152505000			1224W11-288713
1561	16536	1/14/2016	2016	04	08	13	W	08N13W04	1		-0.48230158000		10160	1.41029353000			813W4-229163
1561	16536	1/14/2016	2016	04	08	13	W	08N13W04	1		-1.97326654000		10160	5.77001016000			813W4-229164
1561	16536	1/14/2016	2016	04	08	13	W	08N13W04	1		-4.31215060000		10160	12.60911906000			813W4-229156
1562	8766	1/14/2016	2016	36	12		9 W	12N9W36	1		-1.36082861000		71502	4.39767845000			129W36-289100
1563	16531	1/18/2016	2016	25	13	10	W	13N10W25	1		-2.30188631000		70293	4.49370677000			1310W25-289903
1564	16385	1/19/2016	2016	07	09	17	W	09N17W07	1		-0.48717834000		28847	1.32575755000			917W7-290303
1564	16385	1/19/2016	2016	12	09	18	W	09N18W12	1		-0.80929828000		28847	2.40323168000			918W12-290304
1564	16385	1/19/2016	2016	12	09	18	W	09N18W12	1		-0.15000854000		28847	0.44545416000			918W12-290305
1564	16385	1/19/2016	2016	12	09	18	W	09N18W12	1		-0.12436422000		28847	0.36930268000			918W12-290306
1565	15472	1/19/2016	2016	23	15		6 W	15N6W23	1		-2.68102324000		101262	5.76564138000			156W23-290312
1566	15466	1/19/2016	2016	24	15		6 W	15N6W24	1		-0.29165931000		158090	0.62513494000			156W24-261823
1567	16537	1/19/2016	2016	26	15		6 W	15N6W26	1		-0.68007011000		17718	2.69013301000			156W26-261816
1568	5647	1/19/2016	2016	16	12	11	W	12N11W16	1		-1.18051408000		54087	2.30496001000			1211W16-280665
1569	2685	1/19/2016	2016	05	12	21	W	12N21W05	1		-0.86526519000			2.08338246000			1221W5-290336
1569	2685	1/19/2016	2016	05	12	21	W	12N21W05	1		-1.28020981000			3.08248462000			1221W5-290335
1569	2685	1/19/2016	2016	05	12	21	W	12N21W05	1		-0.15725569000			0.37863969000			1221W5-290334
1570	2687	1/19/2016	2016	14	12	21	W	12N21W14	1		-2.38194730000		204577	5.77935642000			1221W14-290340
1570	2687	1/19/2016	2016	14	12	21	W	12N21W14	1		-1.08144995000		204577	2.62393912000			1221W14-290341
1571	2685	1/19/2016	2016	23	12	21	W	12N21W23	1		-2.25662914000			5.50960629000			1221W23-290339
1572	16515	1/19/2016	2016	07	13	21	W	13N21W07	1		-0.30977638000		71429	0.73869430000			1321W7-290347
1572	16515	1/19/2016	2016	07	13	21	W	13N21W07	1		-3.43311884000		71429	8.18663231000			1321W7-290344
1572	16515	1/19/2016	2016	07	13	21	W	13N21W07	1		-1.39587467000		71429	3.32860972000			1321W7-290345
1573	16415	1/20/2016	2016	30	12	10	W	12N10W30	1		-3.83031844000		222975	7.50396656000			1210W30-271418
1574	5882	1/20/2016	2016	26	12		8 W	12N8W26	1		-1.06773698000		154824	3.65441206000			128W26-290738
1575	1732	1/20/2016	2016	25	11	22	W	11N22W25	1		-0.65283136000		53986	1.66190615000			1122W36-282281
1575	1732	1/20/2016	2016	25	11	22	W	11N22W25	1		-0.01583363000		53986	0.04030752000			1122W25C0002
1576	16535	1/28/2016	2016	18	13	23	W	13N23W18	1		-2.59331104000		26780	6.42972337000			1323W18-292304
1577	5338	1/28/2016	2016	32	11	11	W	11N11W32	1		-0.30963680000		17321	0.79083125000			1111W32-293103
1577	5338	1/28/2016	2016	31	11	11	W	11N11W31	1		-1.63999959000		79571	4.18689447000			1111W31-293104
1577	16541	1/28/2016	2016	32	11	11	W	11N11W32	1		-15.47237915000		13087	39.51739949000			1111W32-293105
1577	4891	1/28/2016	2016	35	11	12	W	11N12W35	1		-1.31730236000		204247	3.36442039000			1112W35-293107
1577	4656	1/28/2016	2016	07	11	11	W	11N11W07	1		-1.59356759000		139334	5.50613622000			1111W7-293109
1577	5404	1/28/2016	2016	18	10	11	W	10N11W18	1		-0.56918697000		15011	2.36726419000			1011W18-293111
1578	5091	1/28/2016	2016	02	10	12	W	10N12W02	1		-5.21416934000		69077	13.32658140000			1012W2-282298
1579	15471	1/28/2016	2016	24	15		6 W	15N6W24	1		-1.27568543000			2.73427080000			156W24-261822
1580	12862	1/28/2016	2016	02	15		4 W	15N4W02	1		-1.31855388000			4.59530513000			154W2-281876
1580	12862	1/28/2016	2016	02	15		4 W	15N4W02	1		-1.51674344000		56457	5.28601752000			1504W02C0004
1580	12862	1/28/2016	2016	02	15		4 W	15N4W02	1		-0.05952227000			0.20744165000			154W2-282693
1580	12862	1/28/2016	2016	02	15		4 W	15N4W02	1		-0.01495554000			0.05212171000			154W2-282691
1581	6295	1/28/2016	2016	26	12	10	W	12N10W26	1		-0.12372965000		6934	0.38441972000			1210W26-293135
1582	16534	1/28/2016	2016	33	10	11	W	10N11W33	1		-1.19114083000		144166	2.67249703000			1011W33-293137
1583	6095	1/28/2016	2016	24	13		9 W	13N9W24	1		-4.84818664000		105547	16.77747394000			139W24-293139
1584	16542	3/1/2016	2016	02	12	24	W	12N24W02	1		-0.07451128000		18845	0.18625259000			1224W2-295113
1584	16542	3/1/2016	2016	02	12	24	W	12N24W02	1		-0.67495036000		18845	1.68714392000			1224W2-295112
1584	16542	3/1/2016	2016	02	12	24	W	12N24W02	1		-0.17316876000		18845	0.43286239000			1224W2-295111
1584	16542	3/1/2016	2016	02	12	24	W	12N24W02	1		-0.79654474000		18845	1.99108806000			1224W2-295110
1585	12231	3/1/2016	2016	08	12		6 W	12N6W08	1		-0.40950169000		10679	2.17738013000			126W8-283487
1585	12231	3/1/2016	2016	08	12		6 W	12N6W08	1		-0.14719904000		10679	0.78267870000			126W8-283470
1586	12231	3/1/2016	2016	08	12		6 W	12N6W08	1		-0.25740338000		1843	1.36865124000			126W8-283478
1586	16004	3/1/2016	2016	08	12		6 W	12N6W08	1		-0.79942573000		1843	4.25066299000			126W8-283473
1586	16004	3/1/2016	2016	08	12		6 W	12N6W08	1		-0.13615223000		1843	0.72394123000			126W8-283475
1586	16004	3/1/2016	2016	08	12		6 W	12N6W08	1		-0.54691071000		1843	2.90800386000			126W8-283474
1587	16543	3/1/2016	2016	04	08	20	W	08N20W04	1		-0.38060813000		2695	0.65947756000			820W4-247800
1587	16543	3/1/2016	2016	04	08	20	W	08N20W04	1		-2.11206952000		2695	3.65957093000			820W4-295517
1588	16544	3/1/2016	2016	32	15		6 W	15N6W32	1		-0.91486552000		153023	3.62094727000			156W33-295519
1590	16525	3/1/2016	2016	15	10	12	W	10N12W15	1		-1.09764946000		59460	2.80623498000			1012W15-295527
1591	16540	3/2/2016	2016	23	11	24	W	11N24W23	1		-0.33361034000		229988	0.83896349000			1124W23-295901
1592	16545	3/2/2016	2016	03	08	19	W	08N19W03	1		-3.33690323000		6440	5.94107400000			819W3-283497
1593	16546	3/2/2016	2016	22	16		2 W	16N2W22	1		-0.25714100000		28254	0.66354259000			162W22-295908
1593	16546	3/2/2016	2016	22	16		2 W	16N2W22	1		-1.72024064000		28254	4.43901566000			162W22-279876
1594	3027	3/2/2016	2016	09	10	15	W	10N15W09	1		-18.07626164000		219734	47.92338531000			1015W9-295925
1594	3027	3/2/2016	2016	09	10	15	W	10N15W09	1		-6.63931054000		219734	17.60199336000			1015W9-295924

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1595	1942	3/2/2016	2016	34	09	24	W	09N24W34	1		-0.12814604000		107277	0.39369387000			0924W34C0003
1596	1090	3/2/2016	2016	18	11	24	W	11N24W18	1		-0.23557267000			0.59519110000			1124W18-282665
1597	16547	3/3/2016	2016	23	09	16	W	09N16W23	18		0.00000000000			2.53441329000			916W23-295939
1598	5706	5/16/2016	2016	32	10	12	W	10N12W32	1		-0.28423240000		11383	1.16718296000			1012W32-296306
1599	15162	5/16/2016	2016	33	16		4 W	16N4W33	1		-1.09734580000		173030	4.38632738000			164W33-296309
1600	5178	5/16/2016	2016	20	10	13	W	10N13W20	1		-12.86417970000		242053	37.65878941000			1013W20-296314
1600	3734	5/16/2016	2016	20	10	13	W	10N13W20	1		-0.59170888000		242053	1.73217731000			1013W20-296315
1601	2854	5/16/2016	2016	04	09	22	W	09N22W04	1		-2.45541803000		14499	6.51425471000			922W4-294837
1602	14392	5/16/2016	2016	21	16		5 W	16N5W21	1		-0.61114682000		129846	2.36389950000			165W21-295316
1603	402	5/17/2016	2016	32	09	23	W	09N23W32	1		-3.53288743000		3322	10.85914604000			923W32-296704
1604	16548	5/17/2016	2016	07	13		6 W	13N6W07	1		-0.30557251000		61363	1.20994855000			136W7-295103
1605	4065	5/17/2016	2016	14	08	14	W	08N14W14	1		-2.37446220000		173565	4.48513140000			814W14-295310
1605	4065	5/17/2016	2016	14	08	14	W	08N14W14	1		-0.13905094000		65454	0.26265389000			814W15-295324
1605	4065	5/17/2016	2016	15	08	14	W	08N14W15	1		-0.03178803000		65454	0.05984192000			814W15-295328
1605	4065	5/17/2016	2016	15	08	14	W	08N14W15	1		-0.17213141000		65454	0.32404257000			814W15-295323
1605	4065	5/17/2016	2016	15	08	14	W	08N14W15	1		-0.95493096000		65454	1.79768630000			814W15-295322
1606	4065	5/18/2016	2016	11	08	14	W	08N14W11	1		-1.45150363000		237650	2.72261155000			814W10-296726
1607	2008	5/18/2016	2016	27	11	22	W	11N22W27	1		-1.18658463000		5552	3.01605047000			1122W27-297107
1608	16516	5/19/2016	2016	02	09	20	W	09N20W02	1		-0.98963777000		2259	1.87282716000			0920W02B0004
1609	3740	5/19/2016	2016	21	11	13	W	11N13W21	1		-4.36115358000		55663	11.64900257000			1113W21-271023
1610	4645	5/19/2016	2016	09	11	12	W	11N12W09	1		-2.73139254000		215538	9.93944471000			1112W9-297510
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1611	16369	5/19/2016	2016	04	13	21	W	13N21W04	1		-1.14763107000		3438	2.66536082000			1321W4-297529
1612	3141	5/19/2016	2016	22	10	16	W	10N16W22	1		-2.12711322000		147849	5.57265053000			1016W22B0005
1613	6079	5/19/2016	2016	11	13		9 W	13N9W11	1		-0.35501382000		96027	1.21419986000			139W11-297910
1614	4052	5/19/2016	2016	12	08	17	W	08N17W12	1		-1.19094346000		15436	3.21133809000			0817W12C0003
1615	16549	5/19/2016	2016	01	11	20	W	11N20W01	1		-0.62055119000		224525	1.43995542000			1120W1-297539
1616	4924	5/24/2016	2016	33	12	11	W	12N11W33	1		-2.10112571000		20903	5.32147236000			1211W33-296725
1617	3071	5/24/2016	2016	02	09	17	W	09N17W02	1		-2.26913175000		17608	6.85217422000			917W2-271446
1618	16553	5/24/2016	2016	02	09	17	W	09N17W02	1		-3.04473907000		17608	9.19430196000			917W2-298788
1618	16553	5/24/2016	2016	02	09	17	W	09N17W02	1		-0.49811030000		17608	1.50416060000			917W2-298782
1619	682	5/24/2016	2016	31	11	23	W	11N23W31	1		-0.59726825000		160322	1.51408072000			1123W31-297920
1620	6338	5/24/2016	2016	12	09	10	W	09N10W12	1		-1.76309968000		32578	6.86476190000			910W12-181483
1621	15571	5/25/2016	2016	15	16		4 W	16N4W15	1		-1.64818134000		237386	6.47978273000			164W15-298366
1622	12058	5/25/2016	2016	01	13		5 W	13N5W01	1		-2.50437913000			13.85689167000			135W1-294714
1622	12058	5/25/2016	2016	01	13		5 W	13N5W01	1		-8.39393741000			46.44419854000			135W1-294712
1623	244	5/25/2016	2016	20	10	24	W	10N24W20	1		-1.07509263000		149207	3.13233372000			1024W20-298708
1624	16554	6/2/2016	2016	34	14		8 W	14N8W34	1		-12.05882359000			36.90553972000			148W34-295336
1625	3178	6/2/2016	2016	30	10	16	W	10N16W30	1		-4.67852817000		11396	13.90790989000			1016W30-264620
1625	3178	6/2/2016	2016	30	10	16	W	10N16W30	1		-0.53345729000		11396	1.58581410000			1016W30C0006
1626	274	6/2/2016	2016	10	10	23	W	10N23W10	1		-0.44819883000		218020	1.13967688000			1023W10-298882
1627	1399	6/2/2016	2016	03	08	24	W	08N24W03	1		-2.08384633000		65714	6.99699931000			824W3-299906
1627	1399	6/2/2016	2016	03	08	24	W	08N24W03	1		-0.60402373000		65714	2.02815032000			824W3-299905
1628	4130	6/2/2016	2016	29	11	18	W	11N18W29	1		-3.35301829000		146199	8.75810417000			1118W29-87620
1628	8943	6/2/2016	2016	29	11	18	W	11N18W29	1		-1.16419048000		146199	3.04087262000			1118W29-300325
1628	8943	6/2/2016	2016	29	11	18	W	11N18W29	1		-1.28375225000		146199	3.35316868000			1118W29-300324
1628	8943	6/2/2016	2016	29	11	18	W	11N18W29	1		-4.77337763000		146199	12.46809142000			1118W29-300326
1629	16387	7/7/2016	2016	03	14		5 W	14N5W03	1		-0.81484064000		136936	3.34438804000			1405W03D0005
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1630	14660	7/7/2016	2016	28	15		3 W	15N3W28	1		-7.70721631000		133473	19.41690370000			153W28-303114
1631	16555	7/7/2016	2016	28	15		3 W	15N3W28	1		-6.78950794000		133473	17.10490748000			153W28-263435
1632	1008	7/11/2016	2016	18	11	24	W	11N24W18	1		-5.69817296000		142173	14.39683915000			1124W18-279465
1633	15442	7/11/2016	2016	15	15		3 W	15N3W15	1		-4.92619447000		58390	12.39559269000			153W15-282286
1634	16376	7/18/2016	2016	08	15		4 W	15N4W08	1		-1.26284626000		237378	5.08388802000			154W8-293501
1634	16376	7/18/2016	2016	08	15		4 W	15N4W08	1		-0.47125947000		237378	1.89716712000			154W8-293500
1634	16376	7/18/2016	2016	08	15		4 W	15N4W08	1		-0.76231516000		237378	3.06888103000			154W8-293499
1635	16376	7/18/2016	2016	17	15		5 W	15N5W17	1		-1.10299404000		918	2.35497141000			155W17-294798
1636	4690	7/18/2016	2016	01	10	13	W	10N13W01	1		-2.36595896000		98773	6.57338637000			1013W1-305519
1636	4690	7/18/2016	2016	01	10	13	W	10N13W01	1		-3.93963386000		98773	10.94555568000			1013W1-305520
1636	4690	7/18/2016	2016	01	10	13	W	10N13W01	1		-4.08590930000		98773	11.35195538000			1013W1-305521
1636	5548	7/18/2016	2016	29	11	13	W	11N13W29	1		-0.07441750000		135906	0.19943632000			1113W29-305534
1637	5218	7/19/2016	2016	34	12	12	W	12N12W34	1		-0.68714993000		150337	2.48442277000			1212W34-210005
1638	5265	7/19/2016	2016	35	12	12	W	12N12W35	1		-2.42344217000		10082	8.74770446000			1212W35-210015

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1640	16445	7/19/2016	2016	20	11	22	W	11N22W20	11		0.00000000000		3225	0.84806109000			1122W20-305920
1641	3071	7/20/2016	2016	15	10	17	W	10N17W15	1		-10.35998817000			30.15057310000			1017W15-296318
1642	3204	7/20/2016	2016	01	09	17	W	09N17W01	1		-3.78482008000		33548	11.46451962000			917W1-257491
1643	1519	7/20/2016	2016	24	10	21	W	10N21W24	1		-2.26888791000		148036	6.12791998000			1021W24-297511
1644	14365	7/20/2016	2016	01	16		2 W	16N2W01	1		-0.23200289000			0.98779979000			161W6-298341
1644	14365	7/20/2016	2016	01	16		2 W	16N2W01	1		-0.10237737000			0.43589260000			162W1-298340
1645	269	7/20/2016	2016	35	12	25	W	12N25W35	1		-0.44995294000		24764	1.16377925000			1225W35-298352
1646	665	7/21/2016	2016	36	12	24	W	12N24W36	1		-0.70966333000		180875	1.77154161000			1224W36-298359
1647	2496	7/21/2016	2016	02	09	21	W	09N21W02	1		-0.79719588000		47404	2.21822246000			0921W02A0005
1647	2497	7/21/2016	2016	02	09	21	W	09N21W02	1		-0.53365016000		47404	1.48489825000			0921W02A0006
1647	2496	7/21/2016	2016	02	09	21	W	09N21W02	1		-0.86697472000		47404	2.41238428000			921W2-119290
1648	3860	7/21/2016	2016	13	10	18	W	10N18W13	1		-0.44538062000		166215	1.26218121000			1018W13-298320
1649	3306	7/21/2016	2016	18	10	17	W	10N17W18	1		-0.99151061000			2.83475028000			1017W18-298373
1650	4025	7/21/2016	2016	26	09	14	W	09N14W26	1		-0.57205523000		65374	1.69395789000			914W26-298427
1650	4025	7/21/2016	2016	26	09	14	W	09N14W26	1		-0.70081343000		65374	2.07523396000			0914W26D0005
1651	3828	7/21/2016	2016	19	09	13	W	09N13W19	1		-0.67624709000		223534	1.55269922000			913W19-298463
1652	4096	7/21/2016	2016	04	08	15	W	08N15W04	1		-0.99021618000		221357	2.95751717000			815W4-298304
1653	4096	7/21/2016	2016	02	08	15	W	08N15W02	1		-0.47641148000		147513	1.44875277000			815W2-298312
1654	6566	7/21/2016	2016	24	12		9 W	12N9W24	1		-1.12464288000		21693	4.08830966000			129W24-297917
1655	4754	7/21/2016	2016	04	09	12	W	09N12W04	1		-0.32676891000		6167	0.67430066000			912W4-300314
1656	16558	7/21/2016	2016	19	14		8 W	14N8W19	1		-0.52247724000		95611	1.80462746000			148W19-298715
1656	16558	7/21/2016	2016	19	14		8 W	14N8W19	11		0.00000000000		95611	0.87251800000			148W19-298716
1657	16559	7/21/2016	2016	15	13		8 W	13N8W15	1		-0.61939920000		133596	2.13636271000			138W15-297951
1658	16560	7/25/2016	2016	23	13		8 W	13N8W23	1		-0.26939220000		51125	1.05853287000			138W23-307513
1658	16560	7/25/2016	2016	23	13		8 W	13N8W23	1		-0.45112170000		51125	1.77260936000			138W23-307514
1659	11793	7/25/2016	2016	36	13		8 W	13N8W36	1		-0.29484934000		57704	1.03131737000			138W36-51396
1660	10080	7/25/2016	2016	13	13		7 W	13N7W13	1		-0.34914851000		172793	1.70126166000			137W13-297943
1661	16561	7/29/2016	2016	25	13		7 W	13N7W25	1		-0.82923269000		72511	3.15847032000			137W25-297924
1662	16562	7/29/2016	2016	21	15		2 W	15N2W21	1		-0.44437873000		209896	2.56699386000			152W21-298727
1663	15831	7/29/2016	2016	21	15		2 W	15N2W21	1		-0.06839794000		48531	0.39510690000			152W21-298725
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1666	16065	7/29/2016	2016	07	11	13	W	11N13W07	1		-17.41010788000			49.48501851000			1113W7-14827622
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1667	6078	7/29/2016	2016	10	13		9 W	13N9W10	1		-0.61018848000		85798	2.07102139000			1309W10B0005
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1669	16502	8/23/2016	2016	23	12	12	W	12N12W23	1		-4.56009076000			14.88219561000			1212W23-280669
1670	12620	8/23/2016	2016	02	13		8 W	13N8W02	1		-0.54284546000		17874	1.68399451000			138W2-308712
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1670	12620	8/23/2016	2016	02	13		8 W	13N8W02	1		-8.51376580000		17874	26.41108030000			138W2-308713
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1685	15385	9/20/2016	2016	14	15	4	W	15N4W14	1	2	-0.63963056000		64646	2.59142469000			154W14-566471

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1563	6375	1/18/2016	2016	25	13	10	W	13N 10W SEC 25	18		0	2.30512018000	70293	4.50001986000				1310W25B0002	13N10W25
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1582	4785	1/28/2016	2016	33	10	11	W	10N 11W SEC 33	18		3	1.19037789000	144166	2.67078526000				1011W33A0002	10N11W33
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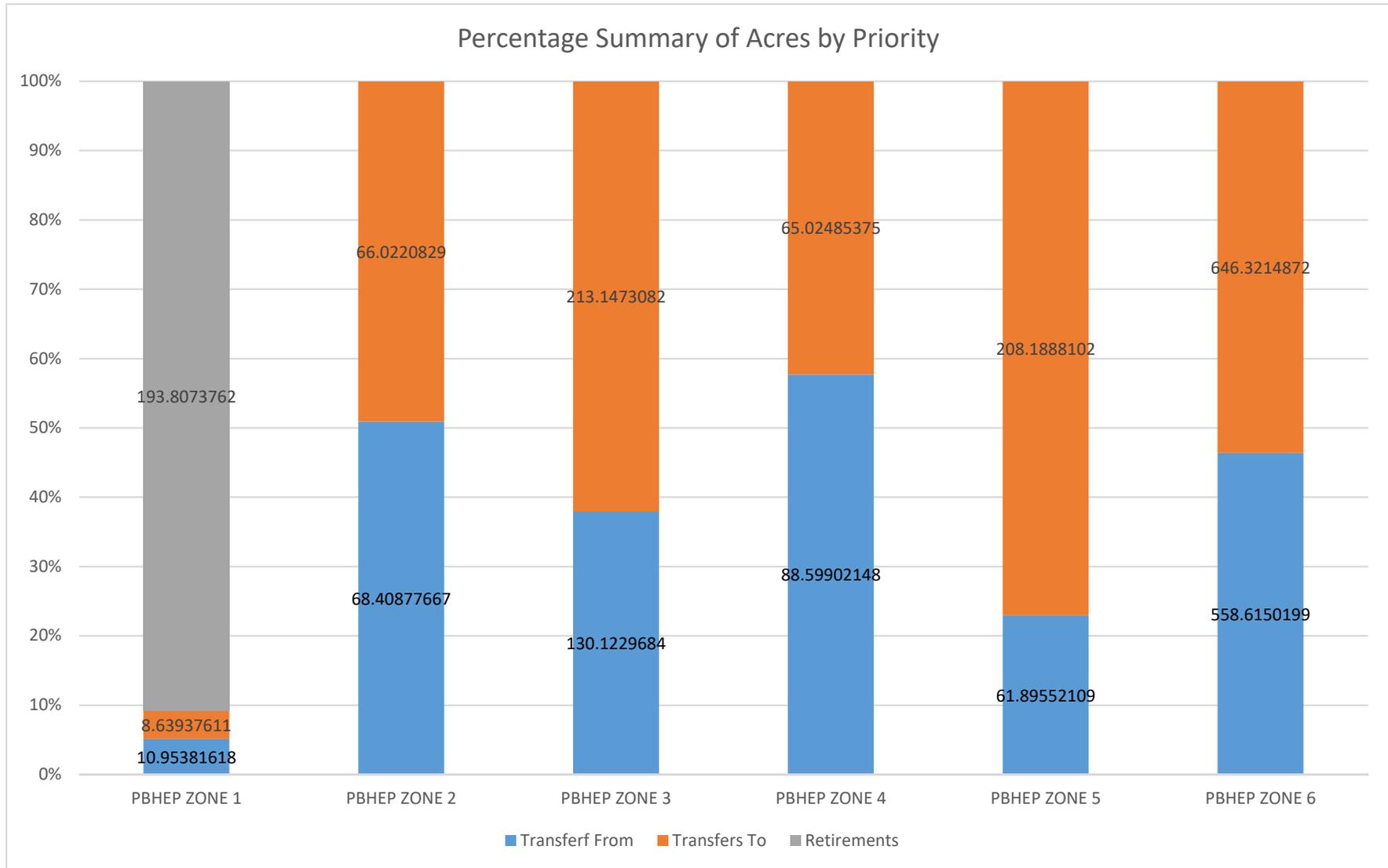
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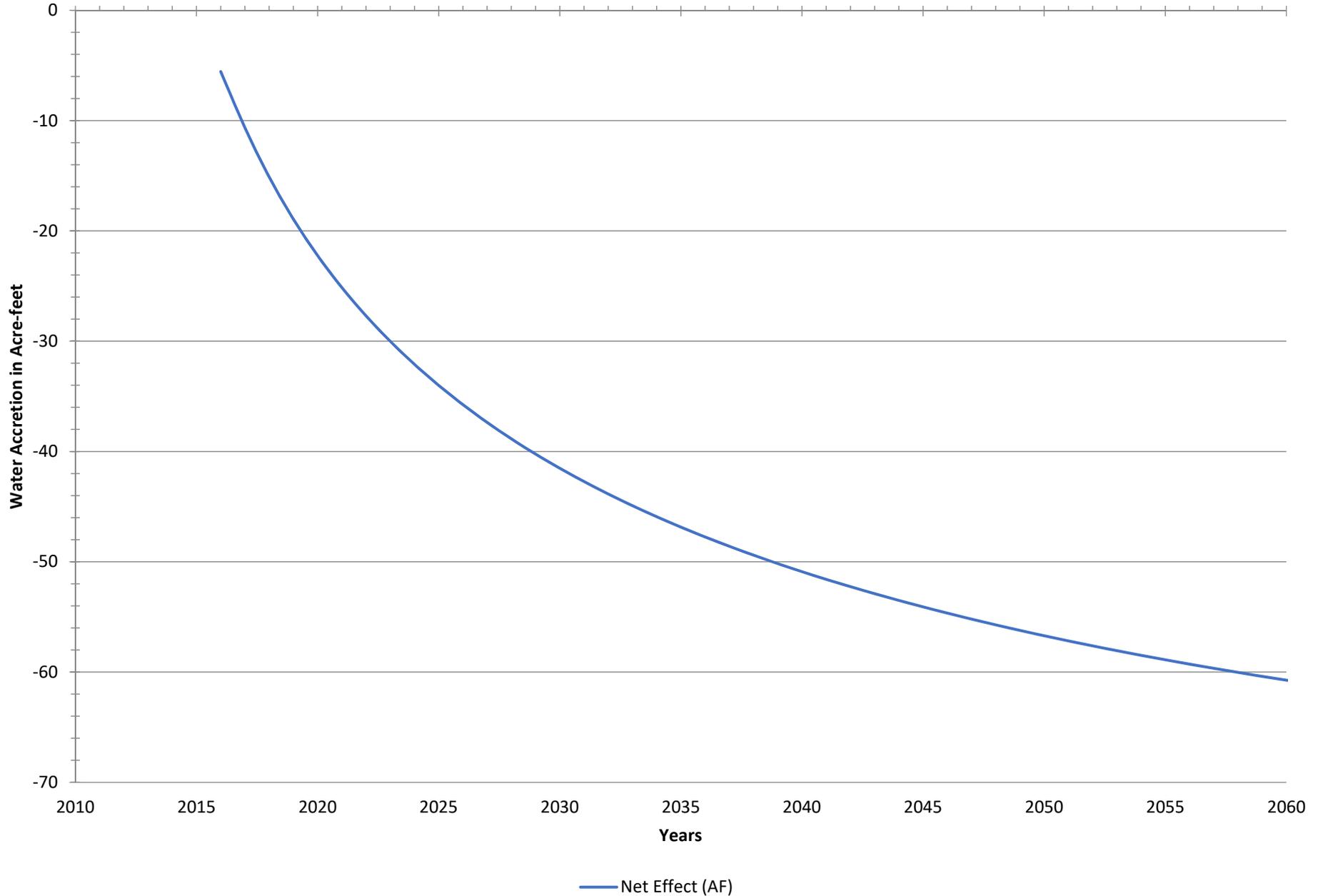
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1644	14365	7/20/2016	2016	01	16	02	W	16N 02W SEC 01	18	1	0.16179185000		0.68886192000	1602W01D0003	16N02W01
1644	14365	7/20/2016	2016	01	16	02	W	16N 02W SEC 01	18	1	0.02278552000		0.09701400000	1602W01D0004	16N02W01
1644	14365	7/20/2016	2016	01	16	02	W	16N 02W SEC 01	18	1	0.03723464000		0.15853410000	1602W01D0005	16N02W01
1644	14365	7/20/2016	2016	01	16	02	W	16N 02W SEC 01	18	1	0.11281342000		0.48032624000	1602W01D0006	16N02W01
1645	16005	7/20/2016	2016	35	12	25	W	12N 25W SEC 35	18	4	0.44981571000	24764	1.16342430000	1225W35B0002	12N25W35
1646	665	7/21/2016	2016	36	12	24	W	12N 24W SEC 36	18	5	0.66548787000	180875	1.66126584000	1224W36C0006	12N24W36
1646	665	7/21/2016	2016	36	12	24	W	12N 24W SEC 36	18	5	0.04479184000	180875	0.11181445000	1224W36C0007	12N24W36
1647	2497	7/21/2016	2016	02	09	21	W	09N 21W SEC 02	18	4	0.34907184000	47404	0.97130331000	0921W02A0007	09N21W02
1647	2497	7/21/2016	2016	02	09	21	W	09N 21W SEC 02	18	4	1.27041515000	47404	3.53496987000	0921W02A0008	09N21W02
1647	2498	7/21/2016	2016	01	09	21	W	09N 21W SEC 01	18	4	0.60128632000	3294	1.24457497000	0921W01B0003	09N21W01
1647	2498	7/21/2016	2016	01	09	21	W	09N 21W SEC 01	18	4	0.20020568000	3294	0.41439656000	0921W01B0004	09N21W01
1648	3860	7/21/2016	2016	13	10	18	W	10N 18W SEC 13	18	0	0.44368997000	166215	1.25739001000	1018W13A0002	10N18W13
1649	3652	7/21/2016	2016	18	10	17	W	10N 17W SEC 18	18	0	0.91249530000	172211	2.60884381000	1017W18B0003	10N17W18
1649	3306	7/21/2016	2016	18	10	17	W	10N 17W SEC 18	18	0	0.08180541000		0.23388343000	1017W18B0004	10N17W18
1650	4025	7/21/2016	2016	26	09	14	W	09N 14W SEC 26	18	3	1.25351104000	65374	3.71187050000	0914W26D0004	09N14W26
1651	3934	7/21/2016	2016	07	08	14	W	08N 14W SEC 07	18	2	0.22359785000	16465	0.63110345000	0814W07A0006	08N14W07
1652	4097	7/21/2016	2016	04	08	15	W	08N 15W SEC 04	18	3	0.99207481000	221357	2.96306840000	0815W04B0002	08N15W04
1653	4096	7/21/2016	2016	04	08	15	W	08N 15W SEC 04	18	3	0.39756745000	133156	1.18743015000	0815W04B0003	08N15W04
1653	4096	7/21/2016	2016	04	08	15	W	08N 15W SEC 04	18	3	0.05510113000	133156	0.16457269000	0815W04B0004	08N15W04
1654	6566	7/21/2016	2016	24	12	09	W	12N 09W SEC 24	18	5	0.37586122000	21693	1.36633340000	1209W24D0002	12N09W24
1654	6566	7/21/2016	2016	24	12	09	W	12N 09W SEC 24	18	5	0.37551820000	21693	1.36508638000	1209W24D0003	12N09W24
1654	6566	7/21/2016	2016	24	12	09	W	12N 09W SEC 24	18	5	0.37565949000	21693	1.36560001000	1209W24D0004	12N09W24
1655	4752	7/21/2016	2016	04	09	12	W	09N 12W SEC 04	18	4	0.33215526000	6167	0.68541561000	0912W04D0003	09N12W04
1656	16558	7/21/2016	2016	19	14	08	W	14N 08W SEC 19	18	0	0.17496269000	95611	0.60431812000	1408W19A0003	14N08W19
1656	16558	7/21/2016	2016	19	14	08	W	14N 08W SEC 19	18	0	0.17439047000	95611	0.60234170000	1408W19A0004	14N08W19
1656	16558	7/21/2016	2016	19	14	08	W	14N 08W SEC 19	18	0	0.17424636000	95611	0.60184393000	1408W19A0005	14N08W19
1657	16559	7/21/2016	2016	15	13	08	W	13N 08W SEC 15	18	0	0.09347032000	133596	0.32238742000	1308W15C0002	13N08W15
1657	16559	7/21/2016	2016	15	13	08	W	13N 08W SEC 15	18	0	0.52912586000	133596	1.82500196000	1308W15C0003	13N08W15
1658	11987	7/25/2016	2016	24	13	08	W	13N 08W SEC 24	18	5	0.31998960000	10090	1.12848225000	1308W24C0002	13N08W24
1658	16560	7/25/2016	2016	23	13	08	W	13N 08W SEC 23	18	5	0.30691917000	152756	1.20598896000	1308W23C0002V2	13N08W23
1659	11793	7/25/2016	2016	24	12	08	W	12N 08W SEC 24	18	2	0.23648385000	60861	0.83737035000	1208W24C0003	12N08W24
1660	10080	7/25/2016	2016	13	13	07	W	13N 07W SEC 13	18	3	0.18225245000	172793	0.88804363000	1307W13D0004	13N07W13
1660	10080	7/25/2016	2016	13	13	07	W	13N 07W SEC 13	18	3	0.16684373000	172793	0.81296306000	1307W13D0005	13N07W13
1661	12194	7/29/2016	2016	25	13	07	W	13N 07W SEC 25	18	2	0.82952525000	72511	3.15958463000	1307W25C0003	13N07W25
1662	16562	7/29/2016	2016	21	15	02	W	15N 02W SEC 21	18	4	0.08239660000	209896	0.47597139000	1502W21B0002	15N02W21
1662	16562	7/29/2016	2016	21	15	02	W	15N 02W SEC 21	18	4	0.36288832000	209896	2.09625720000	1502W21B0003	15N02W21
1663	15831	7/29/2016	2016	21	15	02	W	15N 02W SEC 21	18	4	0.82677872000	48531	4.77596201000	1502W21A0002	15N02W21
1664	4612	7/29/2016	2016	33	10	13	W	10N 13W SEC 33	18	4	0.27063065000	205752	0.58429145000	1013W33A0002	10N13W33
1664	4612	7/29/2016	2016	33	10	13	W	10N 13W SEC 33	18	4	0.54350068000	205752	1.17341771000	1013W33A0003	10N13W33
1664	4612	7/29/2016	2016	33	10	13	W	10N 13W SEC 33	18	4	0.80837670000	205752	1.74528490000	1013W33A0004	10N13W33
1664	4612	7/29/2016	2016	33	10	13	W	10N 13W SEC 33	18	4	1.10713038000	205752	2.39029396000	1013W33D0002	10N13W33
1664	4612	7/29/2016	2016	33	10	13	W	10N 13W SEC 33	18	4	0.53041417000	205752	1.14516394000	1013W33D0003	10N13W33
1664	4612	7/29/2016	2016	33	10	13	W	10N 13W SEC 33	18	4	0.54162071000	205752	1.16935885000	1013W33D0004	10N13W33
1666	16065	7/29/2016	2016	07	11	13	W	11N 13W SEC 07	18	0	1.97755377000	224125	5.62083164000	1113W7-2606771	11N13W07
1666	16065	7/29/2016	2016	07	11	13	W	11N 13W SEC 07	18	0	17.36663442000	224125	49.36145324000	1113W7-2606782	11N13W07
1666	16065	7/29/2016	2016	07	11	13	W	11N 13W SEC 07	18	0	0.03590986000		0.10206715000	1113W7-1482762	11N13W07
1667	16303	7/29/2016	2016	10	13	09	W	13N 09W SEC 10	18	0	0.61175708000	85798	2.07634530000	1309W10B0006	13N09W10
1669	16450	8/23/2016	2016	22	12	12	W	12N 12W SEC 22	18	0	0.96821631000	135908	3.16160008000	1212W22D0004	12N12W22
1669	16450	8/23/2016	2016	22	12	12	W	12N 12W SEC 22	18	0	0.63494923000	135908	2.07335439000	1212W22-96880	12N12W22
1669	16450	8/23/2016	2016	22	12	12	W	12N 12W SEC 22	18	0	1.03738000000	135908	3.38744624000	1212W22-96879	12N12W22
1669	16450	8/23/2016	2016	22	12	12	W	12N 12W SEC 22	18	0	0.21607114000	135908	0.70555680000	1212W22-96881	12N12W22
1669	5251	8/23/2016	2016	26	12	12	W	12N 12W SEC 26	18	0	0.40592773000	167828	1.46216594000	1212W26B0002	12N12W26
1669	5251	8/23/2016	2016	26	12	12	W	12N 12W SEC 26	18	0	0.31785798000	167828	1.14493560000	1212W26B0003	12N12W26
1669	5251	8/23/2016	2016	26	12	12	W	12N 12W SEC 26	18	0	0.33700393000	167828	1.21390002000	1212W26B0004	12N12W26
1669	5251	8/23/2016	2016	26	12	12	W	12N 12W SEC 26	18	0	0.26264131000	167828	0.94604323000	1212W26B0005	12N12W26
1670	12620	8/23/2016	2016	02	13	08	W	13N 08W SEC 02	18	0	0.26874318000	17874	0.83368486000	1308W02B0003	13N08W02
1670	12620	8/23/2016	2016	02	13	08	W	13N 08W SEC 02	18	0	1.67028159000	17874	5.18148401000	1308W02B0004	13N08W02
1670	12620	8/23/2016	2016	02	13	08	W	13N 08W SEC 02	18	0	3.55897853000	17874	11.04052776000	1308W02B0005	13N08W02
1670	11718	8/23/2016	2016	33	14	08	W	14N 08W SEC 33	18	0	6.78908570000	35575	23.10116440000	1408W33B0004	14N08W33
1671	14523	8/23/2016	2016	17	16	02	W	16N 02W SEC 17	18	1	0.25562544000	33063	1.05577630000	1602W17D0003	16N02W17
1671	14523	8/23/2016	2016	17	16	02	W	16N 02W SEC 17	18	1	0.08231717000	33063	0.33998385000	1602W17D0004	16N02W17
1673	16564	8/29/2016	2016	08	10	09	W	10N 09W SEC 08	18	3	0.59167261000	102303	1.23185783000	1009W08D0004	10N09W08
1673	16564	8/29/2016	2016	08	10	09	W	10N 09W SEC 08	18	3	2.17817920000	102303	4.53495239000	1009W08D0005	10N09W08
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1674	16565	8/29/2016	2016	26	12	12	W	12N							

1677	2847	9/19/2016	2016	18	09	20	W	09N 20W SEC 18	18	4	4.00503085000	19204	11.61748415000			0920W18A0003	09N20W18
1678	16411	9/19/2016	2016	32	11	23	W	11N 23W SEC 32	18	3	0.87454044000	184989	2.20872362000			1123W32A0003	11N23W32
1678	16411	9/19/2016	2016	32	11	23	W	11N 23W SEC 32	18	3	3.94938237000	184989	9.97448920000			1123W32A0004	11N23W32
1679	16566	9/19/2016	2016	32	11	23	W	11N 23W SEC 32	18	3	0.33899797000	184989	0.85616718000			1123W32A0005	11N23W32
1679	16566	9/19/2016	2016	32	11	23	W	11N 23W SEC 32	18	3	1.35002192000	184989	3.40959111000			1123W32A0006	11N23W32
1679	16566	9/19/2016	2016	32	11	23	W	11N 23W SEC 32	18	3	2.32617444000	184989	5.87494440000			1123W32A0007	11N23W32
1679	16411	9/19/2016	2016	32	11	23	W	11N 23W SEC 32	18	3	0.77389872000	184989	1.95454472000			1123W32A0008	11N23W32
1679	16411	9/19/2016	2016	32	11	23	W	11N 23W SEC 32	18	3	1.44073004000	184989	3.63868191000			1123W32A0009	11N23W32
1680	3740	9/19/2016	2016	21	11	13	W	11N 13W SEC 21	18	0	4.36115358000	55663	11.64900257000			1113W21-271023	11N13W21
1680	3740	9/19/2016	2016	21	11	13	W	11N 13W SEC 21	18	0	1.60144518000		4.27759277000			1113W21B0005	11N13W21
1680	3740	9/19/2016	2016	21	11	13	W	11N 13W SEC 21	18	0	11.40755017000		30.47051169000			1113W21B0006	11N13W21
1680	3740	9/19/2016	2016	21	11	13	W	11N 13W SEC 21	18	0	0.45248092000	55663	1.20861403000			1113W21D0003	11N13W21
1681	11718	9/20/2016	2016	33	14	08	W	14N 08W SEC 33	18	0	2.09116590000	82759	7.11559250000			1408W33B0005	14N08W33
1682	16376	9/20/2016	2016	16	15	05	W	15N 05W SEC 16	18	5	0.36162460000	42632	1.40320938000			1505W16A0004	15N05W16
1682	16376	9/20/2016	2016	16	15	05	W	15N 05W SEC 16	18	5	0.03191070000	42632	0.12382287000			1505W16A0005	15N05W16
1683	16376	9/20/2016	2016	32	15	04	W	15N 04W SEC 32	18	2	0.89436061000	14060	3.65327218000			1504W32B0002	15N04W32
1683	16376	9/20/2016	2016	32	15	04	W	15N 04W SEC 32	18	2	0.14965496000	14060	0.61130856000			1504W32B0003	15N04W32
1684	16376	9/20/2016	2016	29	15	04	W	15N 04W SEC 29	18	2	0.25942521000	130118	1.05662499000			1504W29B0002	15N04W29
1684	16376	9/20/2016	2016	29	15	04	W	15N 04W SEC 29	18	2	1.25201890000	130118	5.09940598000			1504W29B0003	15N04W29
1684	16376	9/20/2016	2016	29	15	04	W	15N 04W SEC 29	18	2	0.80415671000	67097	3.27528723000			1504W29B0004	15N04W29
1684	16376	9/20/2016	2016	32	15	04	W	15N 04W SEC 32	18	2	0.64736975000	62437	2.64436725000			1504W32B0004	15N04W32
1685	15385	9/20/2016	2016	14	15	04	W	15N 04W SEC 14	18	2	1.43151990000	64646	5.79971668000			1504W14B0002	15N04W14
1685	15544	9/20/2016	2016	14	15	04	W	15N 04W SEC 14	18	2	0.44136045000	64646	1.78814529000			1504W14A0002	15N04W14
1685	15544	9/20/2016	2016	14	15	04	W	15N 04W SEC 14	18	2	0.34954799000	64646	1.41617263000			1504W14A0003	15N04W14
1685	15544	9/20/2016	2016	14	15	04	W	15N 04W SEC 14	18	2	0.53504664000	64646	2.16770925000			1504W14A0004	15N04W14
1685	16376	9/20/2016	2016	14	15	04	W	15N 04W SEC 14	18	2	0.86857840000	44844	3.51899306000			154W14-3095651	15N04W14

Attachment 6



### 2016 CPNRD Certified Irrigated Acreage Transfers estimated effect on Platte River



NRD_PermitNO	PermitHldr_Name	Permitted Date	ImplementYear	NU_Section	NU_Township	NU_Range	NU_E_W	TWNRNGSECT	NU_CropLvstck	NU_ZoneCurveNo	NU_Annual_CU	NU_DNR_WellRegNo	Well_Id_As	NU_TransfAcres	CU_Notes	AssocWellPermit	AssocVar	FIELD_ID
1675	13866	8/29/2016	2016	10	08	18	W	08N 18W SEC 10	18	1	53.49175830000		26441	96.01248947000				0818W10C0001
1686	2890	9/26/2016	2016	07	09	22	W	09N 22W SEC 10	18	1	48.93941365000		141549	97.79488670000				0922W07A0001

## Attachment 9. Central Platte NRD 2016 Canal Operations Information

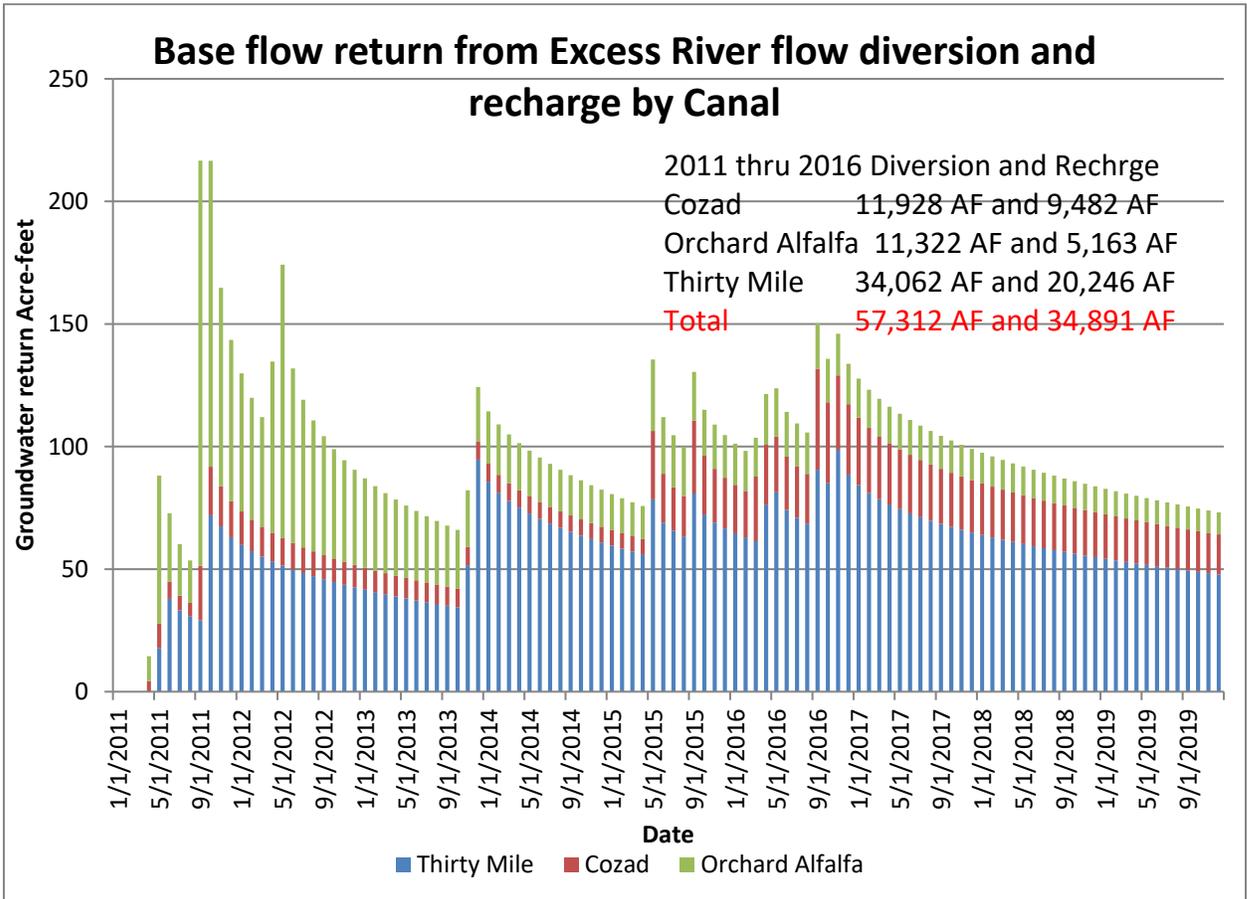
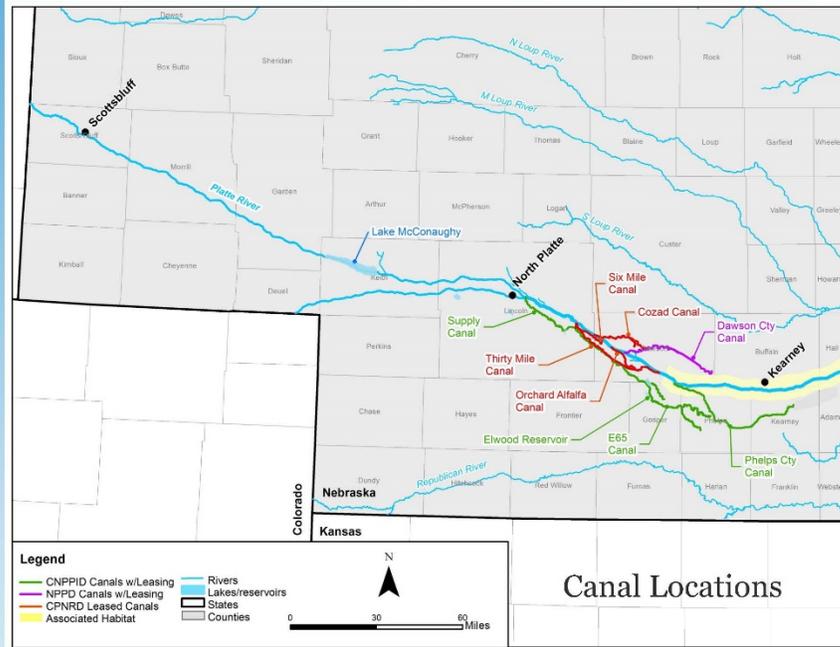
1. Operations agreements with 3 canals – Cozad Ditch Company, Thirty Mile Irrigation District, and Southside Irrigation District.
2. Operations with canals include Spring and Fall Excess flow diversions and groundwater recharge for retiming base flows to the Platte River.
3. Operations also include the temporary transfer of surface water natural flow rights to stream flow augmentation.
4. Operate and maintain canals for surface water deliveries during the irrigation season.



Cozad Head gates



Thirty Mile Canal gates



### Natural Flow Water Right Transfer to Platte River from the 3 Dawson County Canals

