



**Annual Report for the Lower Platte River Basin Coalition
Basinwide Water Management Plan**

Reporting Dates: 07/01/2016 – 12/31/2017

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INTRODUCTION

This report was prepared to review activities within the Upper Elkhorn Natural Resources District (UENRD or District) in accordance with the Lower Platte River Basin Coalition Basinwide Water Management Plan. This is the first report compiled by UENRD and covers the dates July 1, 2016 to December 31, 2017. This report covers only activities within the Lower Platte River Basin (thick black line) of UENRD (in pink), see map below; thus eliminating part of northern Antelope county and sections outside the Lower Platte River Basin (LPRB).

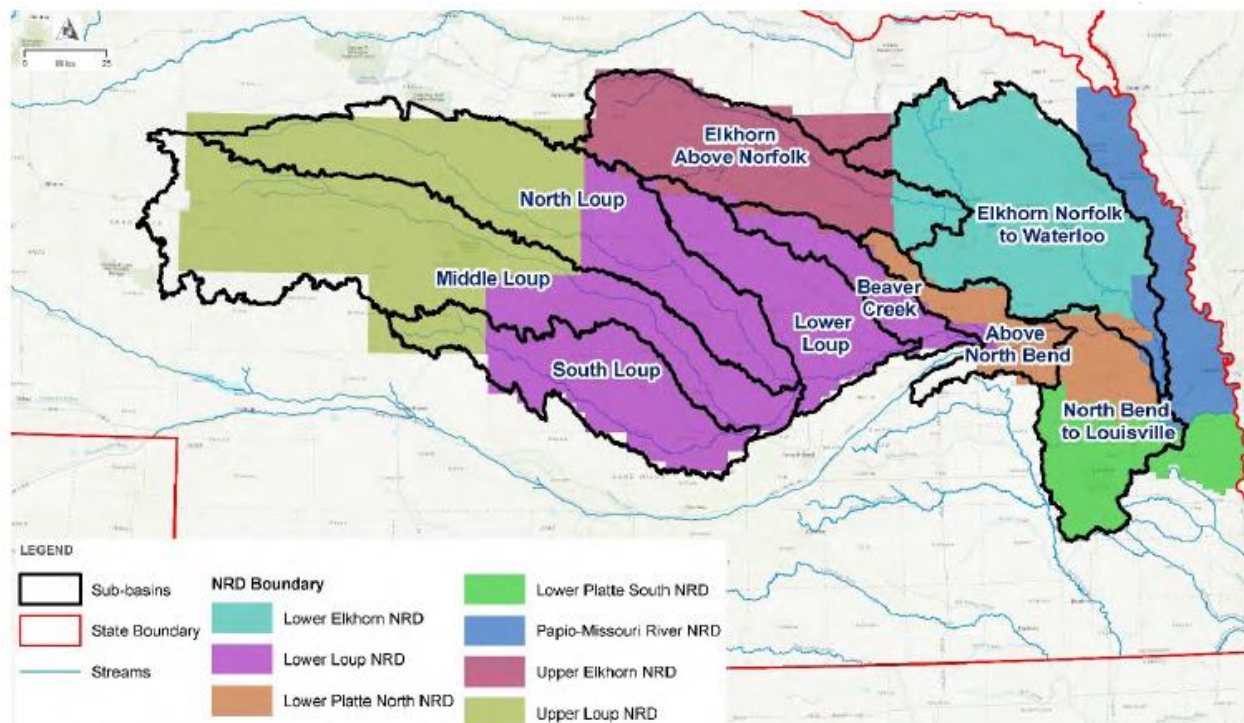


Figure 1: Boundary of the Lower Platte River Basin. From the Lower Platte River Basin Coalition Basinwide Water Management Plan, 2017.

CERTIFIED IRRIGATED ACRES

The UENRD has begun Groundwater Irrigated Acre Certification. Acre certification is based off of 2010 County Assessor data. Landowners who paid irrigated tax during 2010 received a certification letter for each parcel listed as irrigated. Once the landowner received their letter, they needed to compile documentation showing the amount of irrigated acres for that legal. Documentation could either be in the form of a FSA form 578 or county assessor tax records.

Due to the three different designated areas within the Upper Elkhorn NRD, landowners were instructed in their certification letter as to which years their documentation should include. Landowners with groundwater irrigated acres that have been irrigated at least once within the Lower Niobrara River Basin

fully appropriated designation during the calendar years of 2003 through October 16, 2007; the Lower Platte River Basin designation between the calendar years of 2004 and December 16, 2008; and, the previously undesignated area of Holt and Northern Antelope Counties between the years of 2008 through October 1, 2012 will be certified at 100% with proper documentation.

Historically groundwater irrigated acres currently enrolled in the Conservation Reserve Program, Conservation Reserve Enhancement Program, Environmental Quality Incentive Program or other federal, state or local conservation program or irrigated prior to the basin designations must also be certified if there is any possibility of future irrigation. Acres that were historically irrigated in the Lower Niobrara River Basin prior to 2003, Lower Platte River Basin prior to 2004 and previously undesignated area of Holt and Northern Antelope Counties prior to 2008 and have proper documentation may receive 95% certification for the total amount of irrigated acres (see “WATER BANKING ACTIVITIES” on Page 7), should the landowner decide to reactivate a field for irrigation purposes. Any irrigated acres that are not certified prior to the certification deadline will not be allowed to have groundwater applied to them for any purpose.

- **Current Certified Groundwater Irrigated Acres:** 465,317 acres (as of 02/22/2018)
- **Total Certified Groundwater Irrigated Acres:** Unknown until the certification is complete, but estimated at roughly 500,000 acres.

MUNICIPAL AND INDUSTRIAL/LIVESTOCK USES

1) Municipal Use

UENRD contacted municipalities within the LPRB of the District for annual pumping data. Municipal baseline data and pumping rates had not previously been recorded by the District, as such, not all municipality data is available in this draft. **Appendix A** has 07/01/2016 – 12/31/2017 gallons pumped, per capita use, population served, baseline pumping rates, and number of wells per municipality (Atkinson, Bassett, Chambers, Clearwater, Elgin, Ewing, Neligh, Newport, Oakdale, O'Neill, Page, and Stuart.)

2) Industrial/Livestock Use

UENRD does not track water usage of industries or livestock operators within the District.

Appendix B shows all registered wells which have the capacity to pump ≥ 50 gallons per minute (GPM) for commercial/industrial (I) and livestock (L) uses.

NEW CONSUMPTIVE USES**Expansion of Groundwater Irrigated Acres**

UENRD opened up groundwater irrigated acre expansion for the 2017 and the 2018 growing seasons, held in the fall of 2016 and 2017. For the 2017 expansion, 28 applications were approved totaling 558.3 acres within the LPRB, an estimated groundwater depletion of 60.63 acre feet. For the 2018 expansion, 18 applications were approved totaling 699 acres within the LPRB, an estimated groundwater depletion of 50.20 acre feet. See **Appendices C and D**.

The depletion estimate in acre feet (AF) was estimated using the following formula:

$$\text{Depletion Estimate} = \text{Number of Acres} * \text{NIR} * \text{SDF} * \% \text{ Depletion}$$

Where:

NIR = net irrigation requirement in feet, based on the Department of Natural Resources' INSIGHT data for corn irrigation requirements

SDF = stream depletion factor percent, based on the Department of Natural Resources' CENEB stream depletion values for the Loup River and Upper portions of the Elkhorn River Basins

% Depletion = 0.30 (30 %) for all groundwater irrigated farmland

RETIREMENT OF CONSUMPTIVE USES

UENRD did not retire any consumptive groundwater uses between 07/01/2016 and 12/31/2017.

TRANSFERS

UENRD approved four transfers between 07/01/2016 and 12/31/2017, totaling 79.5 acres, all irrigated farmland. The depletion estimate in acre feet (AF) was estimated using the Depletion Estimate Formula above (see "NEW CONSUMPTIVE USES"). The Change in Depletion was calculated by subtracting the depletion estimate of the "FROM" location by the "TO" location. Overall, UENRD reduced our depletion of groundwater by 0.95 acre feet.

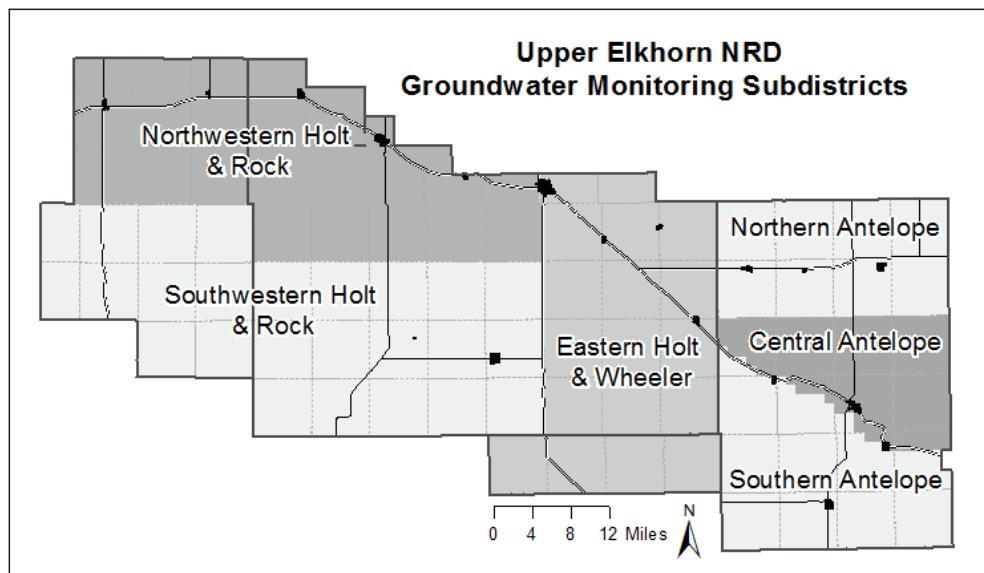
	Number of Acres	Transfer FROM	FROM Depletion Estimate (AF)	Transfer TO	TO Depletion Estimate (AF)	Change in Depletion
	22.65	NW 12-25-9	3.02	NE NE 21-25-9	3.07	0.05
	21.85	S1/2 NE 9-26-5	1.09	SE SE 17-26-5	0.75	-0.34
	13.00	SE 28-24-5	0.96	NE 28-24-5	1.09	0.12
	22.00	SE 17-24-5	2.81	SE NE 28-25-5	2.03	-0.78
TOTAL	79.50					-0.95

WELL CONSTRUCTION PERMITS

UENRD issued 18 well construction permits for groundwater wells within the LPRB between 07/01/2016 and 12/31/2017, see **Appendix E**. UENRD requires a permit for all new, helper, replacement, commercial/industrial, municipal, or livestock wells over 50 GPM. Permits are issued in accordance with the UENRD Groundwater Management Plan Rules and Regulations.

FLOW METER DATA

Since October 2010, flowmeters have been required on all new wells (new, helper, transfer, or replacement) permitted in UENRD which pump ≥ 50 GPM. Designated flowmeters are checked annually by UENRD staff. Flowmeter data is analyzed within UENRD Subdistricts, see map below.



Average inches pumped per year and 10 year average (2006 – 2015) inches pumped are below:

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	AVG
NW Holt & Rock		14.79	15.88	12.46	12.10	16.51	21.15	14.99	11.79	13.09	14.75
SW Holt & Rock			4.98	12.13	18.15	22.48	17.41	12.19	5.56	4.44	12.17
Eastern Holt & Wheeler	8.58	11.81	13.91	13.82	12.58	15.48	22.52	16.57	13.85	10.82	13.99
Northern Antelope	7.93	9.01	8.12	10.59	7.13	12.79	17.03	11.14	6.46	8.51	9.87
Central Antelope			7.45	8.24	6.98	10.10	20.38	16.31	5.88	7.21	10.32
Southern Antelope		10.33	9.87	9.85	10.9	10.88	23.96	15.47	8.19	7.52	11.89

WATER BANKING ACTIVITIES

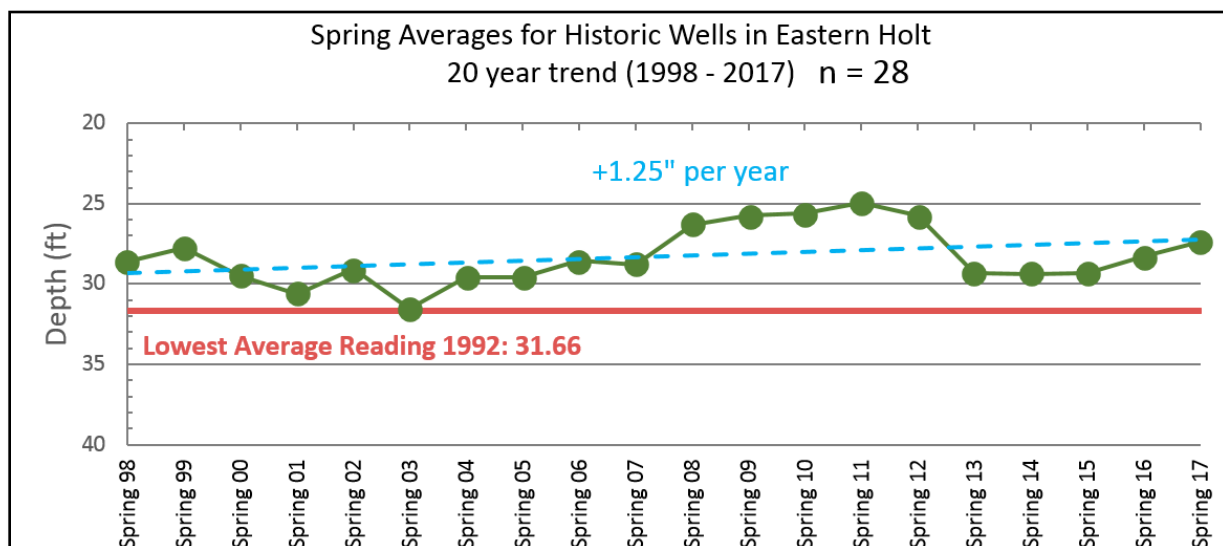
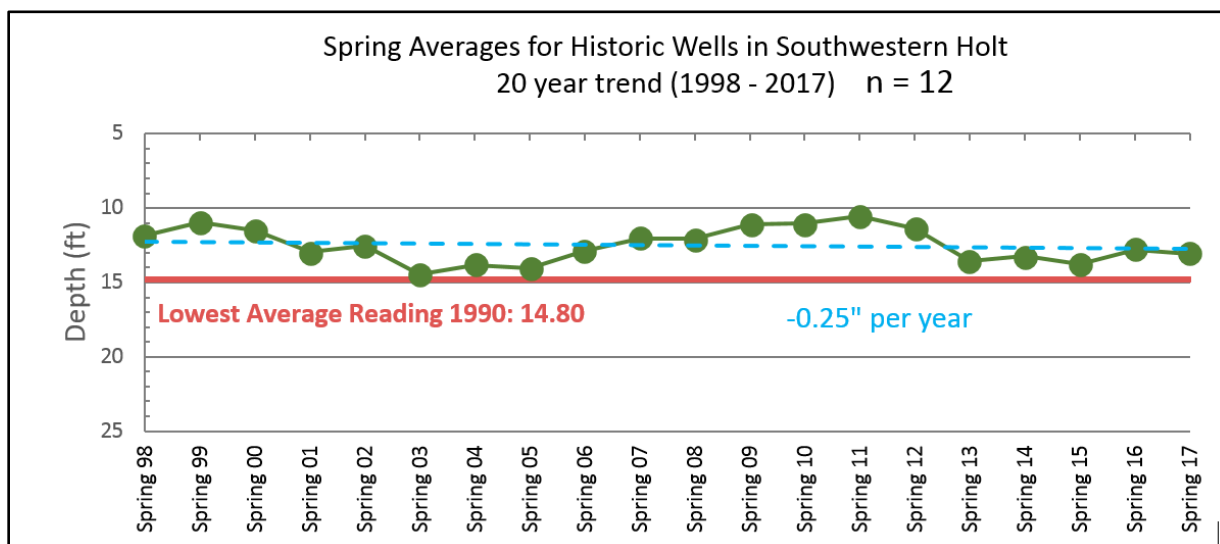
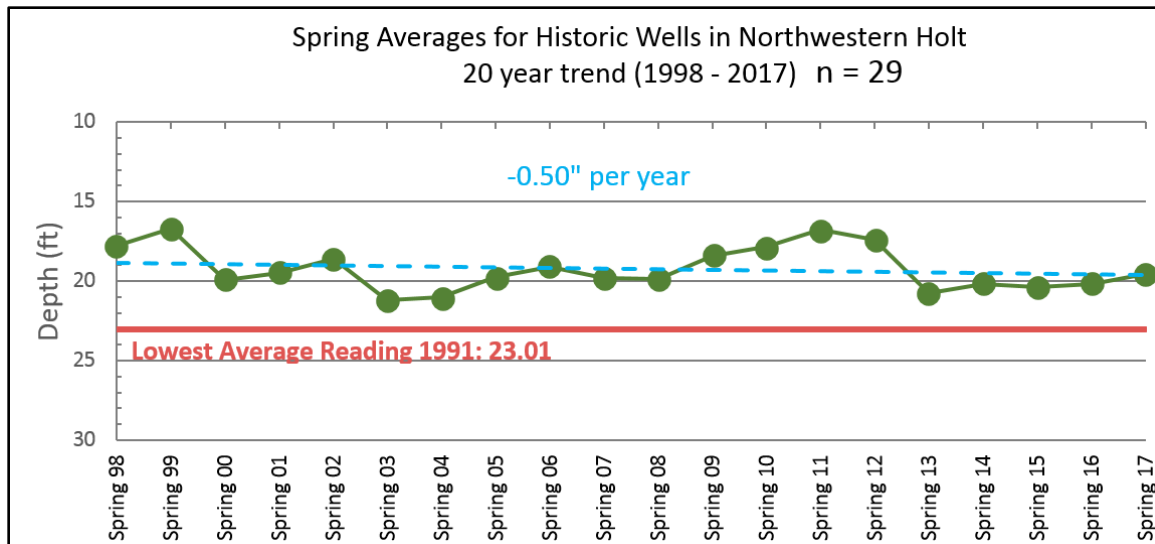
UENRD performed no formal water banking activities between 07/01/2016 and 12/31/2017. However, in conjunction with our Acre Certification, UENRD is certifying historically groundwater irrigated acres at 95% should the landowner decide to reactivate a field for irrigation purposes, and “banking” the 5% (see “CERTIFIED IRRIGATED ACRES” on Pages 3-4). UENRD is still in the processes of completing acre certification. Currently, UENRD has 465,317 certified groundwater irrigated acres, of which 39,984 are historic groundwater irrigated acres. Of those 39,984, 95% are certified as historical groundwater irrigated acres (37,985 acres), and 5% are banked acres (1,999 acres; see below). UENRD has not determined the future management implications or uses of the 5% of historical groundwater irrigated acres which have been banked, but they may be used to offset new groundwater uses in the future.

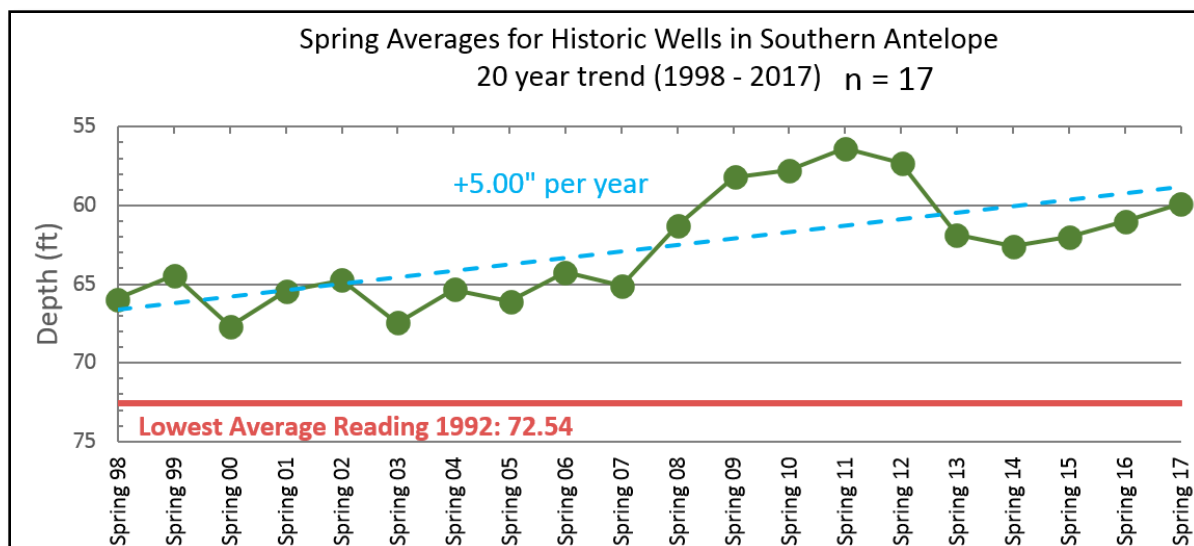
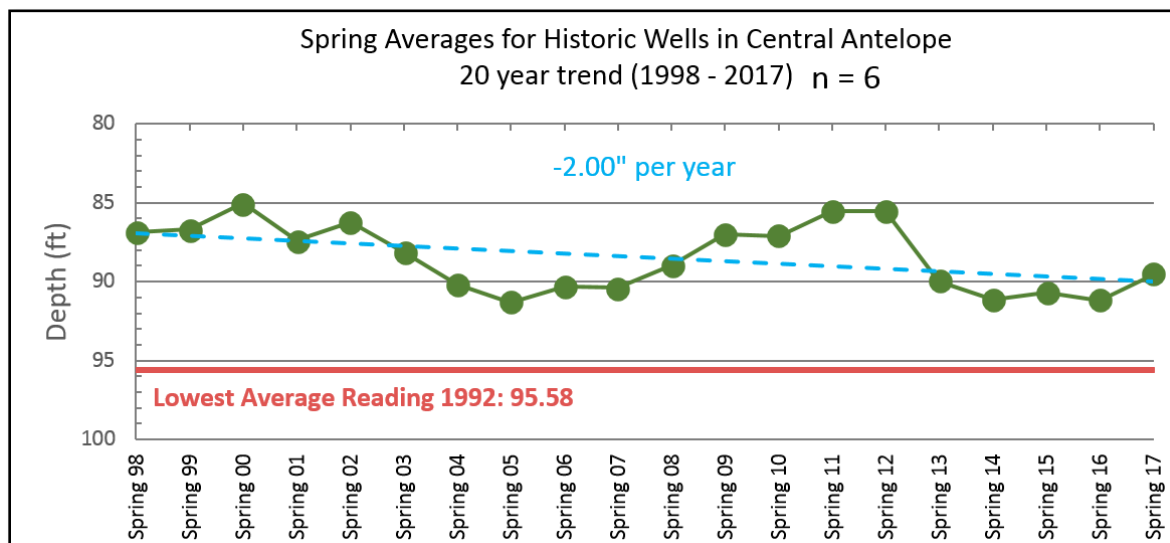
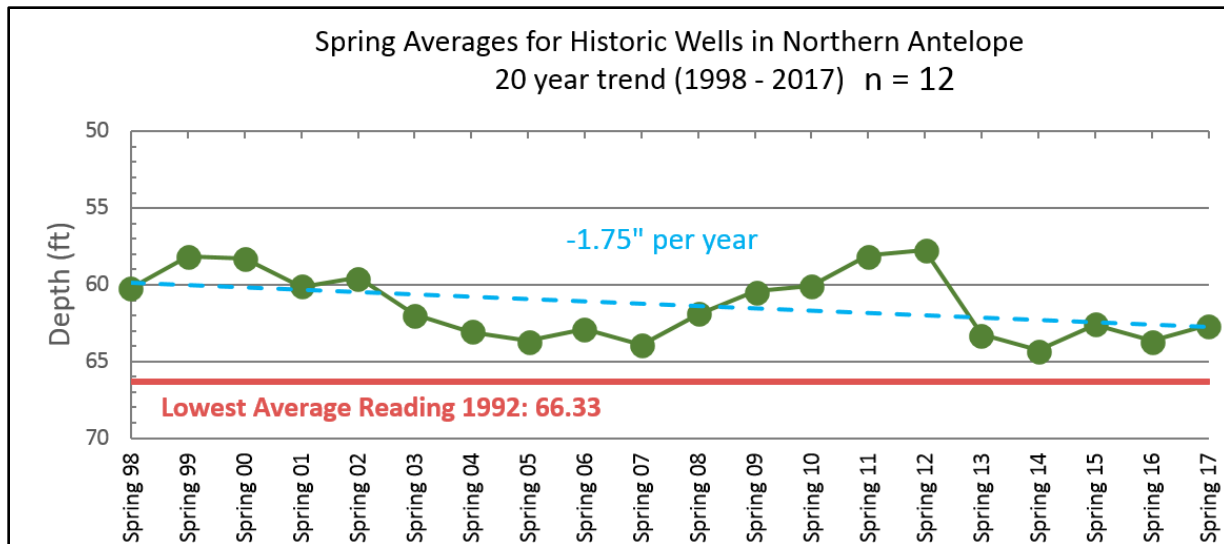
- 39,984 historic acres x 95% = 37,985 certified historical acres
- 39,984 historic acres x 5% = 1,999 banked acres (as of 03/07/2018)

GROUNDWATER ELEVATION DATA

The UENRD has maintained a static groundwater level monitoring program since 1975. This program has expanded to include 358 wells: 104 long-term historical irrigation wells, 55 District monitoring wells, and 199 new irrigation wells added in 2015. Depth to groundwater readings are collected every spring and fall and the data collected is used by the District to recognize changes in groundwater levels over time and better interpret the status of the aquifer. See “NRD REGULATIONS/MANAGEMENT ACTIVITIES” on Page 11 for information on UENRD’s new Rule to address static groundwater level management. Static water levels and trends are analyzed by UENRD Subdistricts, see map on Page 6.

Only spring readings from historic irrigation wells are used to manage groundwater levels in UENRD. In general, the 20-year static groundwater level trendlines show that two subdistricts are decreasing (Northern Antelope and Central Antelope), two subdistricts are relatively stable (NW Holt & Rock and SW Holt & Rock), and two subdistricts are increasing (Eastern Holt & Wheeler and Southern Antelope) in depth to groundwater. Data from the past 20 years, as well as 20-year trendlines are provided by subdistrict in the following graphs:





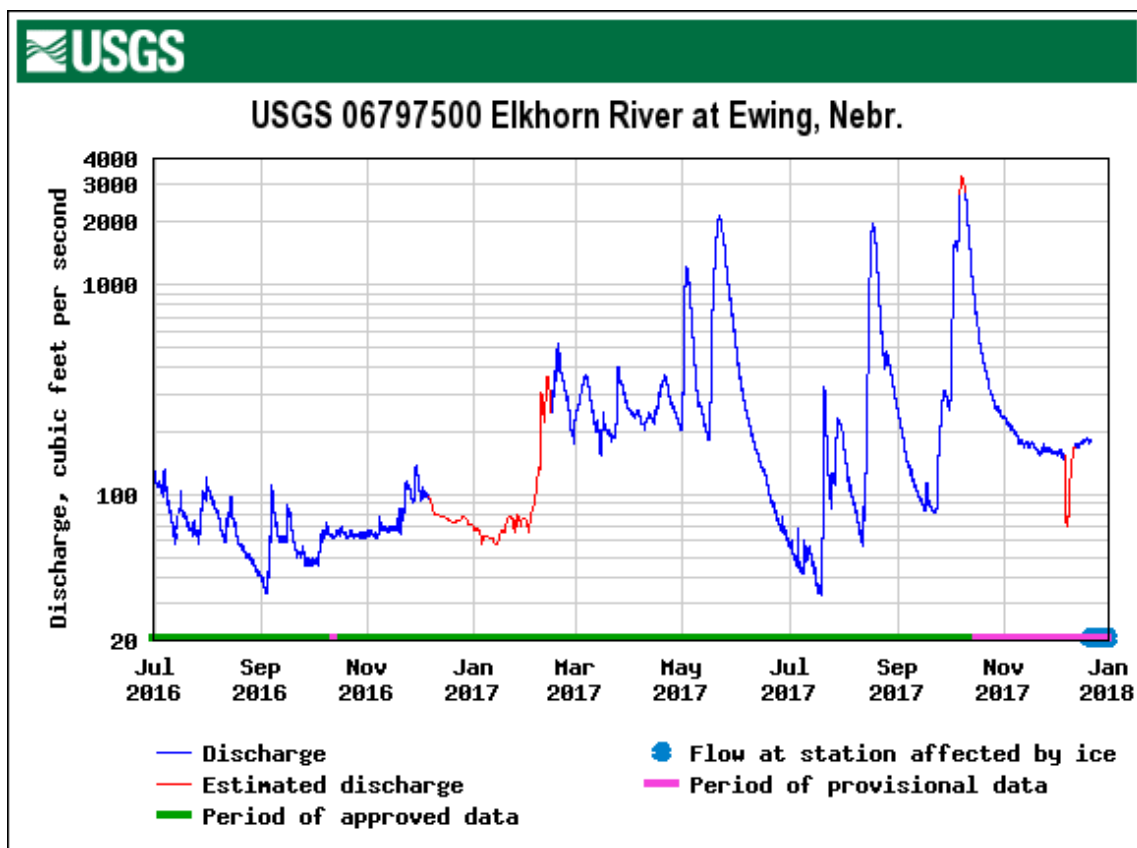
STREAM FLOW ACCRETION ACTIVITIES

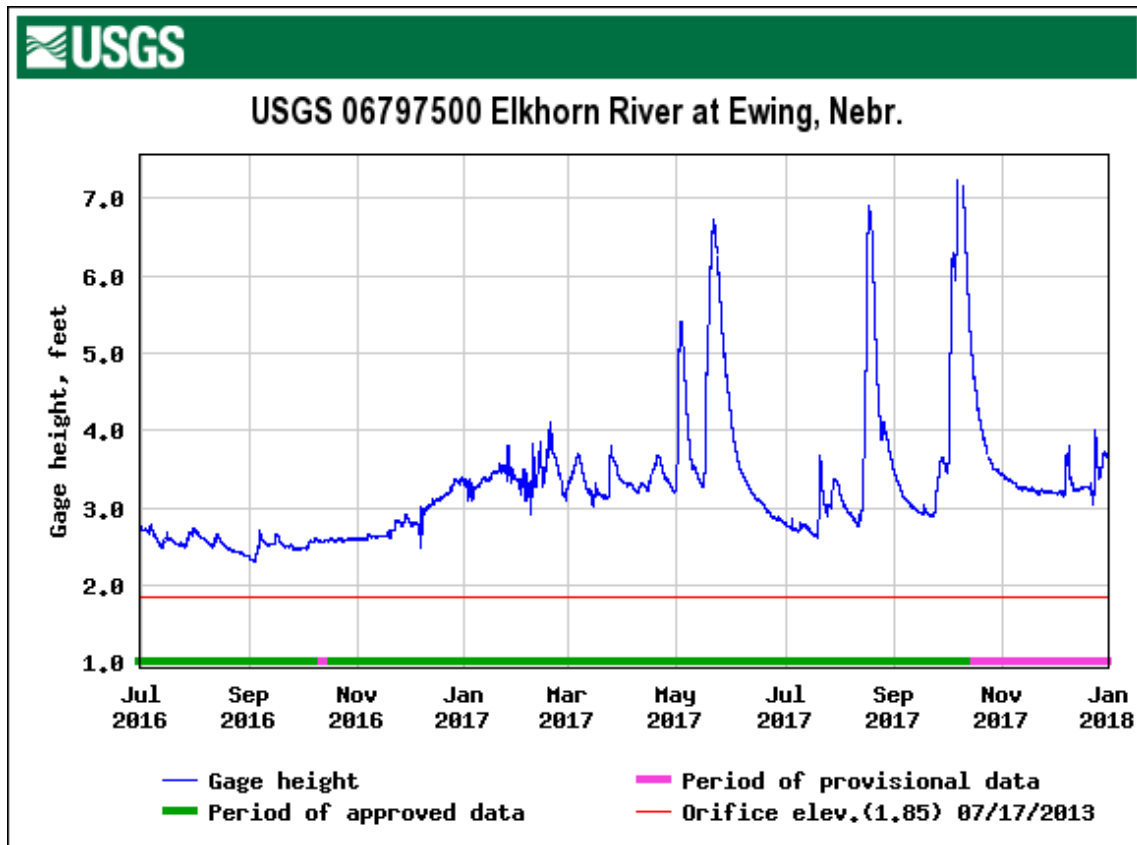
UENRD performed no stream flow accretion activities between 07/01/2016 and 12/31/2017.

STREAM GAGE MEASUREMENTS

UENRD provides funding for the USGS Gaging Station at Ewing, NE on the Elkhorn River. Below are two graphs showing the discharge in cubic feet per second from 07/01/2016 to 12/31/2017, as well as the gage height in feet for the same date range at the Ewing gage.

Data found at: <https://nwis.waterdata.usgs.gov/ne/nwis/current/?type=flow>.



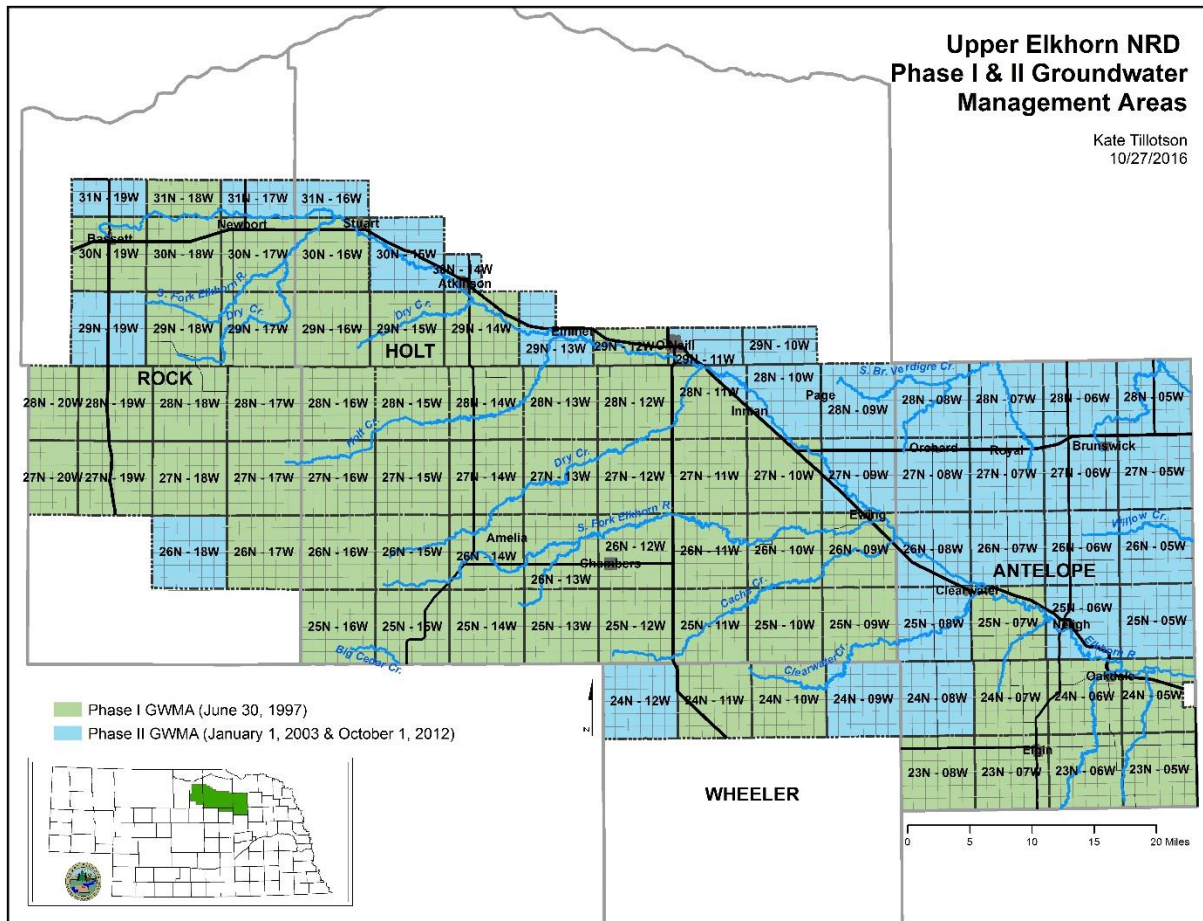


NRD REGULATIONS/MANAGEMENT ACTIVITIES

- 1) UENRD has designated Groundwater Quality Management Areas, considered Phase I, Phase II, and Phase III, to address groundwater nitrate contamination throughout the District. Current Phase I and Phase II designations can be viewed on the following map. Phase I includes areas where the average groundwater concentration of nitrate-nitrogen is 0.0 – 5.0 ppm. Phase II includes areas where the average groundwater concentration of nitrate-nitrogen is 5.0 – 9.0 ppm. Phase III includes areas where the average groundwater concentration of nitrate-nitrogen is > 9.0 ppm.
 - Phase I was initiated 06/30/1997 and encompasses the entire District. Phase I requires anyone who makes nitrogen application decisions (of more than 50 lbs of nitrogen per acre and on more than 1 acre) to be Nitrogen Certified through UENRD or a neighboring NRD every four years. Additionally, all irrigation water wells must be sampled every 4 years and the nitrate-nitrogen results submitted to UENRD.
 - Phase II was first designated on 01/01/2003 and encompassed the “Page Triangle” near Page, NE in Holt County, and Crawford Township in Antelope County. Additional Phase II Areas were labeled 10/01/2012 (see map). Phase II requirements include all Phase I Requirements, and in addition require annual deep soil samples, Phase II Reporting Form submission (for fields > 40

acres and where > 50lbs of nitrogen was applied), and Best Management Practices (BMPs) are strongly encouraged.

- Phase III is not yet designated in UENRD. The Board of Directors is currently in the process of discussing Phase III management options. No date is set yet for implementation of Phase III.



- The UENRD Board of Directors approved new Rule 27: Static Water Level Triggers to the UENRD Groundwater Management Plan Rules and Regulations in December 2017. The Rule better manages static water levels in the District based on triggering mechanisms and management including Information and Education programs, flowmeter requirements, and allocations on high capacity groundwater wells to protect users.

UENRD's Groundwater Management Plan Rules and Regulations can be found in its entirety online at http://uenrd.org/_storage/pagefiles/gwmp_rules_regs_effective_feb_1_2018.pdf, or at <http://www.uenrd.org/programs-projects/water>, then under Groundwater Management.

NEW DEPLETIONS ACCOUNTING REPORT

The Lower Platte River Basin Coalition Basinwide Water Management Plan has designated the first 5-year increment allowable development by Basin and by NRD. UENRD is allowed to develop (deplete) 1,504 acre feet for the first 5-year period, 50% for surface water and 50% for groundwater. Below is our accounting report of depletions (groundwater irrigated acre expansion for the 2017 and 2018 growing seasons) and the supplementation from transfers.

- UENRD has approximately 1,394 acre feet in allowable depletions for the remaining four years of the first 5-year increment, less any surface water depletions.

1,504 AF	Starting Allowable Depletion
- 60.63 AF	2017 Acre Expansion
- 50.20 AF	2018 Acre Expansion
+ 0.95 AF	Transfers
1,394.12 AF	Remaining Allowable Depletion

NEW DATA COLLECTED OR MODEL/STUDY RESULTS

No new models or studies were conducted within UENRD which directly benefitted the Lower Platte River Basin Coalition. However, in July of 2016 aerial electromagnetic (AEM) surveys were flown and data was collected in the Bazile Groundwater Management Area, which covers northern Antelope county in UENRD, and parts of Pierce and Knox counties in Lower Elkhorn, Lewis and Clark, and Lower Niobrara NRDs. These surveys provided insight into the hydrogeology of the area, including 3D profiles, water storage capabilities, and recharge areas in the Bazile Groundwater Management Area. More information can be found at <https://www.enwra.org/coop.html>.

In June 2017, the UENRD Board of Directors voted to discontinue funding the Nebraska Mesonet weather stations in Elgin, Newport, Brunswick, and Chambers, NE. These weather stations were maintained through the Nebraska State Climate Office at the University of Nebraska and provided data to local, state, regional, and national organizations. Stations in O'Neill and Elgin are still funded through Mesonet/UNL. UENRD no longer has ET data from the Newport, Chambers, and Brunswick stations.



APPENDIX A – Municipal Water Use

Municipality	7/1/16 - 12/31/17 Gallons Pumped	Per Capita Use (gals/person/day)	Population Served	2010 Census Data	2006 - 2015 Average Annual Gallons Pumped	Baseline Pumping Rate	Number of Wells
Atkinson	153,432,000	225	1,245	1,245	98,922,370	218	3
Bassett	77,800,000	229	619	619	54,020,000	239	3
Chambers	Working on it ¹			268		-	
Clearwater	63,917,800	278	419	419	NA ²	NA ²	2
Elgin	Working on it ¹			661		-	
Ewing	47,713,900	225	387	387	41,170,250	291	3
Neligh	Working on it ¹			1,599		-	
Newport	Working on it ¹			97		-	
Oakdale	Working on it ¹			322		-	
O'Neill	353,612,000	174	3,705	3,705	233,851,800	173	5
Page	Working on it ¹			166		-	
Stuart	93,296,000	288	590	590	67,884,530	315	3

Per Capita Use was estimated using 07/01/2016 – 12/31/2017 gallons pumped, divided by the population served in that period, divided by 549 days (1.5 years). Baseline Pumping Rates was estimated using 2006 – 2015 (10 year) total annual pumping in gallons, divided by the 2010 Census Data, divided by 365.25 days. All data provided by municipalities.

¹ Several municipalities are still working on getting pumping data to UENRD: Chambers, Elgin, Neligh, Newport, Oakdale, and Page.

² Clearwater did not have consecutive annual pumping data, so a baseline pumping rate was unable to be calculated.

APPENDIX B – Industrial/Livestock Water Use

Well Registration #	Name	Legal			Use	GPM
		S	T	R		
G-092895	A C P A Nebraska General Partnership	2	25	5	L	100
G-136694	Agriliance LLC	2	24	6	I	100
G-086547	Antelope County Partners	2	25	5	L	72
G-086548		2	25	5	L	72
G-073323	Bassett Golf Course	18	30	19	I	450
G-096381	Betty L Schwager	18	24	7	L	300
G-043333	Bruce Forbes	6	25	5	L	900
G-033138	Calvin Barthel	20	25	15	L	900
G-094434	Central Farmers Coop	12	23	5	I	90
G-073246	Central Valley Ag	32	29	11	I	100
G-088467	Charles Sargent Irrigation Company Inc	30	25	6	I	800
G-148010	Elkhorn River Holdings LLC	1	28	11	I	600
G-094916	Glen Larson	22	24	5	L	90
G-092054	Glenn Harpster	27	26	9	L	300
G-146271	Green Plains Atkinson LLC	25	29	12	I	600
G-143983		4	29	14	I	530
G-053742		4	29	14	I	800
G-174310	Highway 20 Washout	24	30	15	I	100
G-081681	James E Wilson	2	27	12	L	300
G-088085	Jennell Suhr	7	24	8	L	300
G-064726	Jim D Jarman	2	26	12	I	400
G-137716	Lawrence & Charon Hirichsen Sand & Gravel	1	26	9	I	200
G-091894	Leroy Behnk	15	25	8	L	300
G-085807	Louis E Sidak	18	28	12	L	110
G-089661	Maschhoffs LLC	15	26	10	L	100
G-123842		15	26	10	L	90
G-182536	Matt & Stacy Klabenes	20	26	7	L	300
G-080121	Nebraska Board of Educational Lands & Funds	36	26	12	L	300
G-046339	Nebraska Game & Parks Commission	26	25	11	I	1,250
G-097213	Niewohner Brothers Inc	8	23	7	L	300
G-071104	Olson Industries Inc	4	29	14	I	80
G-112729	Rick Schindler	29	25	6	I	400
G-087843	Stanley Sojka	10	25	10	L	300
G-081007		32	25	10	L	300
G-089669	Sunshine Ranch Company	13	26	5	L	75
G-177969	Thiele Dairy	14	25	8	L	600
G-128917	Tinsley Grain	18	25	8	I	65
G-091102	William C & Mary E Kaczor	36	26	9	L	300

APPENDIX C – 2017 Growing Season Acre Expansion

Approved expansion groundwater irrigated acres for the 2017 growing season within the LPRB.

- 558.3 acres, 60.63 acre feet depletion (see formula on Page 5)

Legal	Number of Acres	NIR (ft)	SDF %	% Depletion	Depletion Estimate (AF)
SE 17-23-5	5	0.46	0.30	0.3	0.21
SE 36-23-5	5.5	0.48	0.18	0.3	0.14
SE 35-23-6	15.3	0.47	0.20	0.3	0.43
NE NE 3-23-8	8	0.75	0.27	0.3	0.49
SW 25-24-6	50	0.45	0.75	0.3	5.05
NE 33-24-6	2	0.45	0.64	0.3	0.17
SW NE 27-24-7	5	0.47	0.33	0.3	0.23
SE NW & NE SW 27-24-7	12	0.53	0.33	0.3	0.64
E1/2 NW 23-24-8	87	0.56	0.32	0.3	4.76
NE 1-24-9	15	0.59	0.61	0.3	1.62
NE SW & NW SE 14-25-6	13	0.45	0.66	0.3	1.16
NE 21-25-9	10	0.62	0.73	0.3	1.35
SE 29-25-9	4	0.63	0.70	0.3	0.53
SW 7-26-5	6	0.62	0.18	0.3	0.20
NW 30-26-7	4	0.54	0.85	0.3	0.55
NW 5-26-8	3.5	0.58	0.76	0.3	0.46
SE 34-26-9	24	0.62	0.75	0.3	3.34
NE SW & NW SE 17-26-10	15	0.89	0.95	0.3	3.81
SW 23-26-10	15	0.82	0.87	0.3	3.19
SW 7-26-18	7	0.79	0.42	0.3	0.70
E1/2 NW & W1/2 NE 7-26-18	7	0.79	0.42	0.3	0.70
SE 7-26-18	7	0.79	0.42	0.3	0.70
SE 10-28-10	82	0.84	0.43	0.3	9.00
NW 29-28-17	110	0.80	0.49	0.3	13.06
NW SE 21-29-12	5	0.87	0.74	0.3	0.97
Middle 21-29-12	14	0.87	0.74	0.3	2.72
SW 6-29-16	12	0.80	0.56	0.3	1.61
SE 22-30-16	15	0.86	0.73	0.3	2.82
TOTAL	558.3				60.63

APPENDIX D – 2018 Growing Season Acre Expansion

Approved expansion groundwater irrigated acres for the 2018 growing season within the LPRB.

- 699 acres, 50.20 acre feet depletion (see formula on Page 5)

Legal	Number of Acres	NIR (ft)	SDF %	% Depletion	Depletion Estimate (AF)
NW 13-28-10	35	0.72	0.36	0.3	2.75
NE 28-24-5	70	0.51	0.55	0.3	5.86
E1/2 SE 5-23-5	70	0.45	0.43	0.3	4.11
W1/2 NW 30-23-5	76	0.46	0.19	0.3	2.05
E1/2 NW 30-23-5	76	0.46	0.19	0.3	2.05
E1/2 NW 31-23-5	75	0.46	0.16	0.3	1.67
SW 24-24-6	132	0.45	0.79	0.3	14.01
SE 13-26-8	5	0.56	0.63	0.3	0.53
NE NE 18-23-6	2	0.47	0.50	0.3	0.14
NW 12-26-8	15	0.56	0.51	0.3	1.28
NE SW & NW SE 17-26-10	39	0.89	0.95	0.3	9.92
NW SE 27-23-7	35	0.50	0.23	0.3	1.18
NW 3-27-9	10	0.62	0.45	0.3	0.84
SE 25-23-7	10	0.49	0.21	0.3	0.31
SE 24-25-10	14	0.87	0.55	0.3	2.01
NE 10-26-7	28	0.55	0.27	0.3	1.24
NE SE 15-23-7	4	0.49	0.21	0.3	0.12
NW SW 14-23-7	3	0.49	0.26	0.3	0.11
TOTAL	699				50.20

APPENDIX E – Well Construction Permits

UENRD well construction permits for groundwater wells within the LPRB between 04/01/2006 and 12/31/2017, over 50 GPM. Permits are issued in accordance with the UENRD Groundwater Management Plan Rules and Regulations.

UENRD Permit Number	Well Registration #	Name	Location	Number of Acres	GPM	Date Permit Approved	Classification Type
UE-16-011	G-182239	Galen E & Joann K Bergh	SW SW 8-27-5	271.5	850	11/04/2016	Helper Well
UE-16-012	G-182204	HMP Farms - Charlie Meis	NW NE 23-24-8	174	1000	12/14/2016	Helper Well
UE-16-013	G-182861	William & Mary Kaczor	NE NE 21-25-9	33	550	12/21/2016	2017 Acre Expansion
UE-16-014	G-182975	Robert A Ickes	SE SE 10-28-10	82	900	01/05/2017	2017 Acre Expansion
UE-17-002<R>	G-039373	George R. & Catherine M. Hemenway Rev Trust	NW & NE 21-25-8	135	900	02/02/2017	Replacement
UE-17-003	G-184064	Kenneth Clark Inc	NW 11-24-8	130	900	02/06/2017	New Well
UE-17-004<R>	G-053702	Keetle Farms Inc	SW 21-27-6	Not Certified	1000	03/24/2017	Replacement
UE-17-009	G-182536	Matt and Stacy Klabenes	SE 20-26-7	NA	300	05/02/2017	New - Livestock
UE-17-010<R>	G-057188	L Bar 7 attn: Beth Hynes	SE 2-24-9	130	1250	05/08/2017	Replacement
UE-17-011<R>	G-048567	DPKL LLC, attn: Dennis Blair	SW 5-24-7	133.75	800	06/14/2017	Replacement
UE-17-012	G-183200	Paul Focken	NW 29-28-17	110	1200	06/21/2017	2017 Acre Expansion
UE-17-014<R>	G-031023	Marjorie Smith	SW 11-25-6	143.64	550	06/27/2017	Replacement
UE-17-016<R>	G-041334	Ronald and Michael Sanne	SW 3-24-8	120.52	800	07/13/2017	Replacement
UE-17-017<R>	G-030620	Floyd and Marlene Henn	SE 28-25-8	213.52	1000	07/24/2017	Replacement
UE-17-018<R>	G-034401	Willowdale Farms LLC	SE 23-31-17	134.41	900	07/28/2017	Replacement
UE-17-019<R>	G-001102	William and Connie Becker	SE 24-23-6	262.43	1250	09/11/2017	Replacement
UE-17-020<R>	G-072687	Duane Dilsage Family Trust	NE 29-24-6	147.61	900	10/10/2017	Replacement
UE-17-021	G-184319	Sue A Hoke	NW 5-26-8	101.74	850	11/21/2017	New Well