

VIA ELECTRONIC MAIL ONLY

Date: December 28, 2012

To: Governance Committee (GC) of the Platte River Recovery Implementation Program (PRRIP)

From: Jim Schneider, State of Nebraska's Representative to the GC
Deputy Director, Nebraska Department of Natural Resources

Subject: Nebraska's Annual Report under Section IV, Bullet 3 of the Platte River Recovery Implementation Program Nebraska New Depletion Plan for January 1, 2011, to December 31, 2011

This report fulfills the annual reporting requirement for Nebraska for the period of January 1, 2011, to December 31, 2011, for the Platte River Recovery Implementation Program (PRRIP) Attachment 5, Section 8, Nebraska New Depletion Plan (NNDP), Section IV, Bullet 3.

Based upon the data contained in this report and the depletion analysis, the net effect of all 2011 permitted activities is positive. This means that the mitigations provided have an accretive effect to the river that is greater than the depletive effect of the new permitted uses.

This report contains information on the following activities in Nebraska as required by Section IV, Bullet 3 of the NNDP:

- (1) Permitted new and expanded uses of surface water;
- (2) Permitted new and expanded uses of groundwater;
- (3) Collective depletion of these new and expanded permitted uses;
- (4) Collective mitigation of these new and expanded permitted uses; and
- (5) Additional measures to be implemented by Nebraska to satisfy all mitigation elements required because of new depletions to target flows.

Data in this report are from the Nebraska Department of Natural Resources (Department) and the five Natural Resources Districts (NRDs) with land in the 28/40 area: Central Platte NRD (CPNRD), North Platte NRD (NPNRD), South Platte NRD (SPNRD), Tri-Basin NRD (TBNRD), and Twin Platte NRD (TPNRD).

All tables, maps, and definitions of terms can be found in Appendix 1 at the end of this document.

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**Items (1) and (2) from Section IV, Bullet 3 of the NNDP:
Permitted and Expanded Uses of Surface and Groundwater**

In 2011, the NRDs and the Department issued the following permits:

- 53 groundwater transfer permits (table 1);
- 65 groundwater well permits (table 2);
- 5 groundwater variance permits (table 3); and
- 20 new surface water permits (table 4).

Tables 1–4 in Appendix 1 summarize the water use permits issued in 2011 by river reach (upstream of and within the PRRIP critical habitat reach) (map 1 in Appendix 1). Tables 5–8 in Appendix 1 provide a detailed list of these permitted uses and any required mitigation of these uses.

**Items (3) and (4) from Section IV, Bullet 3 of the NNDP:
Collective Depletion and Mitigation for New and Expanded Permitted Uses**

Based upon the data contained in this report and the depletion analysis, the net effect of all 2011 permitted activities is positive. This means that the mitigations provided have an accretive effect to the river that is greater than the depletive effect of the new permitted uses.

Table 9 in Appendix 1 shows the total estimated stream depletions (new or expanded uses), total stream accretions (mitigations), and the net effect by stream reach through 2019 for all activities permitted in 2011. Values in table 9 were derived from the information for the permits listed in tables 5–8. Effects to the river were estimated for each permitted action representing a new consumptive use of water and its corresponding mitigation action.

Due to the nature of the permitted actions, only the groundwater transfers listed in table 5 and the surface water permits in table 8 required further evaluation of the timing of impacts to stream flow. Items in Tables 6 and 7 were 1) groundwater well permits or groundwater variance permits that did not constitute a new or expanded use that required a mitigating action, or 2) that had a corresponding transfer permit issued (table 5) describing the mitigating action or 3) will be evaluated as part of the five year review of all Nebraska activities. For each transfer, there was a new use initiated and an existing use retired. For actions where the new and retired uses were a change in agricultural land use, the difference in consumptive use was estimated based on land use conversions typical of the area (e.g. irrigated corn to dryland corn or vice versa). The change in consumptive use for other types of uses, such as new industrial uses, was estimated based upon available data. The yearly effect to the river from each individual permitted action (new/expanded uses or mitigations) was estimated using an annual depletion percentage series

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developed using the analytical groundwater equations (Hunt, 1999)¹ and average hydraulic characteristics taken from COHYST data. The amount of diversion of the surface water permit was counted as a direct depletion to streamflow.

Figure 1 illustrates the net effect to streamflow upstream of and within the critical habitat reach and the aggregate net effect to both reaches for all activities permitted in 2011. Nebraska's mitigation efforts within the 28/40 area result in a net increase to streamflow in the PRRIP Critical Habitat Reach (CHR).

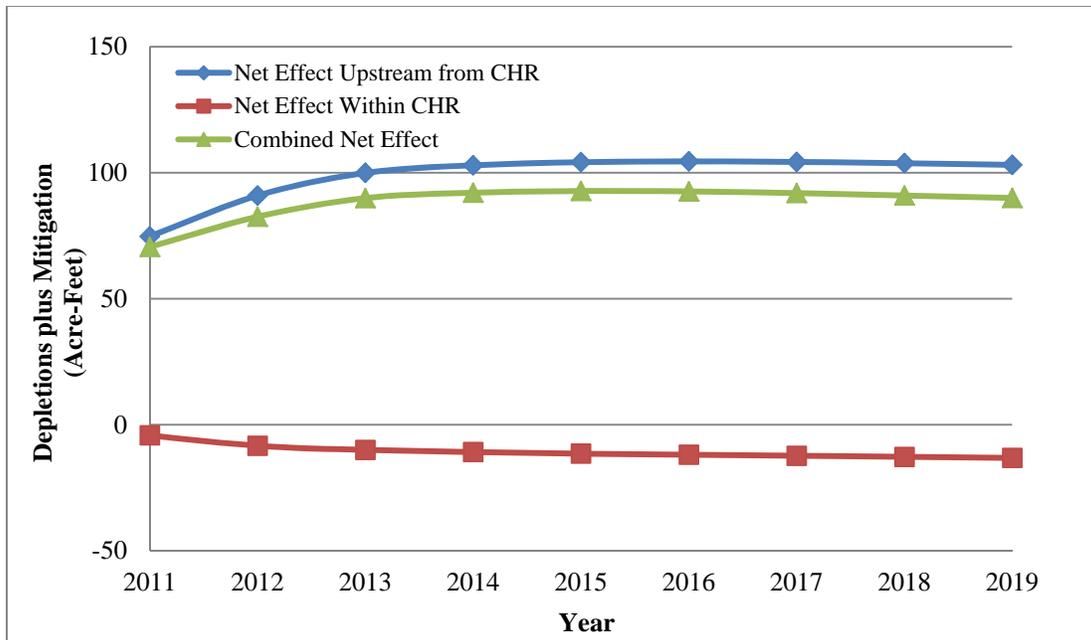


Figure 1: Aggregate net effect to streamflow resulting from all activities permitted in 2011 through the first 10-year increment, 2011-2019.

Item (5) from Section IV, Bullet 3 of the NNDP: Implementation of additional measures to satisfy all mitigations required because of new depletions to target flows

Based upon the analysis of all activities permitted in 2011 and their cumulative depletions and mitigation accretions, no additional mitigation measures for 2011 permitted activities are required at this time.

¹ Hunt, B. (1999), Unsteady Stream Depletion from Ground Water Pumping. Ground Water, 37: 98–102.

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Questions about information provided in this report should be directed to:

Central Platte NRD (CPNRD)	308-385-6282	Ron Bishop
North Platte NRD (NPNRD)	308-632-2749	Tina Kurtz
South Platte NRD (SPNRD)	308-254-2377	Rod Horn
Tri-Basin NRD (TBNRD)	308-995-6688	John Thorburn
Twin Platte NRD (TPNRD)	308-535-8080	Kent Miller
NDNR	402-471-0586	Jesse Bradley

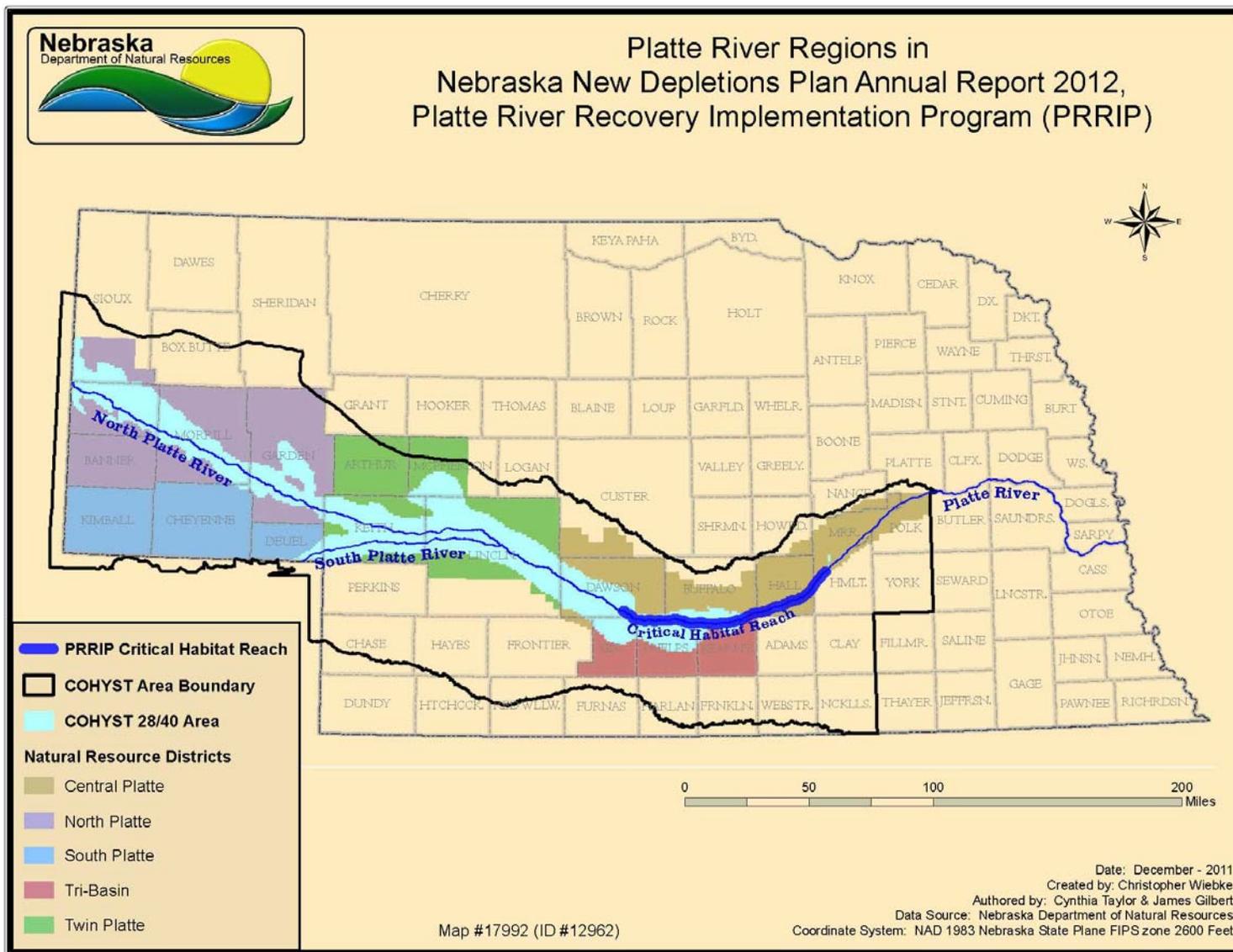
Supporting information can be found at:

http://dnr.ne.gov/IWM/NRD/IWM_UpperPlattebasin.html

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Appendix 1

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Map 1: COHYST 28/40 modeled area and PRRIP Critical Habitat Reach.

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Table 1: Groundwater (GW) Transfer Permits in the 28/40 area upstream of and within the PRRIP Critical Habitat Reach.

Use	# Upstream	# Within	Total
GW Transfers	37	16	53

Table 2: Groundwater Well Permits in the 28/40 area upstream of and within the PRRIP Critical Habitat Reach.

Use	# Upstream	# Within	Total
Dewatering	0	2	2
Supplemental	6	5	11
Replacement	24	26	50
Transfer Well	1	1	2
Total	31	34	65

Table 3: Groundwater Variance Permits in the 28/40 area upstream of and within the PRRIP Critical Habitat Reach.

Use	# Upstream	# Within	Total
Transfer Well	0	1	1
Area Correction	0	2	2
CRP Reinstatement	0	1	1
Augmentation Well	0	1	1
Total	0	5	5

Table 4: Surface water permits in the surface water basin upstream of and within the PRRIP Critical Habitat Reach.

Use	# Upstream	# Within	Total
Temporary Recharge	18	1	19
Dust Control	1	0	1
Total	19	1	20

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Table 5: Groundwater Transfer Permits

NRD	Type	NRD Permit	Permit Date	Section	Township	Range	E/W	Acres	Notes	Year Implemented	Permit ID
CPNRD	Mitigation	314	1/17/2011	32	9	17	W	1.03		2011	917W32-101263
CPNRD	New/Expanded Use	314	1/17/2011	32	9	17	W	1.10		2011	917W32-101262
CPNRD	Mitigation	319	1/20/2011	22	9	21	W	2.62		2011	0921W22B0004
CPNRD	New/Expanded Use	319	1/20/2011	22	9	21	W	2.63		2011	921W22-96065
CPNRD	Mitigation	332	3/10/2011	14	11	24	W	1.21		2011	1124W14C0003
CPNRD	New/Expanded Use	332	3/10/2011	14	11	24	W	1.16		2011	1124W14-99253
CPNRD	Mitigation	350	3/28/2011	14	11	24	W	2.44		2011	1124W14D0005
CPNRD	Mitigation	350	3/28/2011	14	11	24	W	2.32		2011	1124W14-106869
CPNRD	New/Expanded Use	350	3/28/2011	14	11	24	W	3.30		2011	1124W14-106870
CPNRD	New/Expanded Use	350	3/28/2011	14	11	24	W	2.44		2011	1124W14-106871
CPNRD	Mitigation	352	3/28/2011	17	10	21	W	3.16		2011	1021W17B0003
CPNRD	New/Expanded Use	352	3/28/2011	17	10	21	W	0.23		2011	1021W17-106884
CPNRD	New/Expanded Use	352	3/28/2011	17	10	21	W	2.55		2011	1021W17-106883
CPNRD	Mitigation	371	5/6/2011	17	10	22	W	3.49		2011	1022W17-97275
CPNRD	New/Expanded Use	371	5/6/2011	17	10	22	W	3.48		2011	1022W17-103669
CPNRD	Mitigation	379	5/6/2011	29	10	21	W	2.89		2011	1021W29D0006
CPNRD	New/Expanded Use	379	5/6/2011	29	10	21	W	2.89		2011	1021W29-103689
CPNRD	Mitigation	386	6/1/2011	23	9	23	W	6.41		2011	0923W23B0004
CPNRD	New/Expanded Use	386	6/1/2011	23	9	23	W	6.41		2011	923W23-112486
CPNRD	Mitigation	387	6/1/2011	28	9	24	W	11.57		2011	0924W28A0002
CPNRD	New/Expanded Use	387	6/1/2011	28	9	24	W	4.00		2011	924W28-107678
CPNRD	New/Expanded Use	387	6/1/2011	28	9	24	W	0.60		2011	924W28-107695
CPNRD	New/Expanded Use	387	6/1/2011	28	9	24	W	4.37		2011	924W28-107677
CPNRD	Mitigation	388	7/8/2011	32	9	17	W	18.42		2011	0917W32C0003
CPNRD	New/Expanded Use	388	7/8/2011	11	8	14	W	0.96		2011	814W11-42947
CPNRD	New/Expanded Use	388	7/8/2011	11	8	14	W	1.00		2011	814W11-79618
CPNRD	New/Expanded Use	388	7/8/2011	11	8	14	W	9.22		2011	814W11-113677
CPNRD	New/Expanded Use	388	7/7/2011	11	8	14	W	0.04		2011	814W11-102072
CPNRD	Mitigation	389	7/11/2011	32	9	17	W	1.01		2011	0917W32C0003

NRD	Type	NRD Permit	Permit Date	Section	Township	Range	E/W	Acres	Notes	Year Implemented	Permit ID
CPNRD	New/Expanded Use	389*	7/11/2011	15	11	11	W	11.99		2011	111W15-113674
CPNRD	Mitigation	390	7/11/2011	32	9	17	W	5.47		2011	0917W32C0003
CPNRD	New/Expanded Use	390*	7/11/2011	22	13	9	W	91.69		2011	139W22-14074
CPNRD	Mitigation	397	7/18/2011	32	9	17	W	1.02		2011	0917W32C0003
CPNRD	New/Expanded Use	397*	7/18/2011	11	10	11	W	29.12		2011	1011W11-115310
CPNRD	Mitigation	669	8/2/2011	34	9	17	W	5.18		2011	0917W34D0003
CPNRD	New/Expanded Use	669	8/2/2011	34	9	17	W	5.18		2011	917W34-116077
CPNRD	Mitigation	426	9/12/2011	2	9	21	W	2.31		2012	921W2-119290
CPNRD	New/Expanded Use	426	9/12/2011	2	9	21	W	2.33		2012	921W2-119289
CPNRD	Mitigation	427	9/12/2011	12	8	15	W	0.94		2012	0815W13A0002
CPNRD	Mitigation	427	9/12/2011	12	8	15	W	7.79		2012	0815W13A0001
CPNRD	New/Expanded Use	427	9/12/2011	13	8	15	W	8.71		2012	815W13-91284
CPNRD	Mitigation	435	9/13/2011	29	11	22	W	2.76		2012	1122W29A0004
CPNRD	New/Expanded Use	435	9/13/2011	29	11	22	W	2.77		2012	1122W29-119698
NPNRD	Mitigation	TA-11-007	6/9/2011	28	19	49	W	11.10		2012	
NPNRD	New/Expanded Use	TA-11-007	6/9/2011	28	18	48	W	11.00		2012	
NPNRD	Mitigation	TA-11-008	6/9/2011	28	19	49	W	14.90		2012	
NPNRD	New/Expanded Use	TA-11-008*	6/9/2011	28	18	49	W	14.80		2012	
TBNRD	Mitigation	GWT-0253	12/13/2011	29	7	18	W	9.00		2012	
TBNRD	New/Expanded Use	GWT-0253	12/13/2011	29	7	18	W	9.00		2012	
TBNRD	Mitigation	TBAT-0102	12/13/2011	2	6	17	W	5.00		2012	
TBNRD	New/Expanded Use	TBAT-0102	12/13/2011	35	7	17	W	5.00		2012	
TBNRD	Mitigation	TBAT-0087	3/10/2011	35	7	17	W	23.00		2011	
TBNRD	New/Expanded Use	TBAT-0087*	3/10/2011	12	7	16	W	23.00		2011	
TBNRD	Mitigation	GWT-0246	3/10/2011	35	8	20	W	50.00		2011	
TBNRD	New/Expanded Use	GWT-0246	3/10/2011	35	8	20	W	50.00		2011	
TBNRD	Mitigation	TBAT-0095	6/5/2011	5	7	14	W	130.00		2011	
TBNRD	New/Expanded Use	TBAT-0095	6/5/2011	34	8	14	W	130.00		2011	
TPNRD	Mitigation	TP-TRANS-11.25		16	13	37	W	19.90		2011	G-038603
TPNRD	New/Expanded Use	TP-TRANS-11.25		16	13	37	W	19.90		2011	G-038603
TPNRD	Mitigation	TP-TRANS-11.29		3	13	34	W	136.00		2011	
TPNRD	New/Expanded Use	TP-TRANS-11.29		25	13	34	W	136.00		2011	G-159365

NRD	Type	NRD Permit	Permit Date	Section	Township	Range	E/W	Acres	Notes	Year Implemented	Permit ID
TPNRD	Mitigation	TP-TRANS-11.26		17	13	37	W	2.20		2011	G-054444
TPNRD	New/Expanded Use	TP-TRANS-11.26		17	13	37	W	2.20		2011	G-054444
TPNRD	Mitigation	TP-TRANS-11.41		12	13	28	W	40.75		2011	G-021992
TPNRD	New/Expanded Use	TP-TRANS-11.41		25	13	28	W	40.75		2012	G-021992
TPNRD	Mitigation	TP-TRANS-11.38		24	14	36	W	35.00		2012	G-027511
TPNRD	New/Expanded Use	TP-TRANS-11.38		26	14	36	W	35.00		2011	G-071210
TPNRD	Mitigation	TP-TRANS-11.06		3	13	34	W	10.70		2011	G-022063
TPNRD	New/Expanded Use	TP-TRANS-11.06		15	13	34	W	10.70		2011	G-122479
TPNRD	Mitigation	TP-TRANS-11.23		19	13	40	W	1.05		2011	G-030765
TPNRD	New/Expanded Use	TP-TRANS-11.23		19	13	40	W	1.05		2011	G-030765
TPNRD	Mitigation	TP-TRANS-11.24		17	13	31	W	21.00		2011	G-128562
TPNRD	New/Expanded Use	TP-TRANS-11.24*		18	12	36	W	21.00		2011	G-081313
TPNRD	Mitigation	TP-TRANS-11.27		22	14	34	W	2.35		2011	G-014439
TPNRD	New/Expanded Use	TP-TRANS-11.27		22	14	34	W	2.35		2011	G-014439
TPNRD	Mitigation	TP-TRANS-11.36		15	13	39	W	50.35		2011	
TPNRD	New/Expanded Use	TP-TRANS-11.36		32	13	41	W	50.35		2011	G-007075
TPNRD	Mitigation	TP-TRANS-11.22		15	13	39	W	64.40		2011	G-007077
TPNRD	New/Expanded Use	TP-TRANS-11.22		15	13	33	W	64.40		2011	G-159364
TPNRD	Mitigation	TP-TRANS-11.32		22	14	31	W	3.40		2011	G-003336
TPNRD	New/Expanded Use	TP-TRANS-11.32		22	14	31	W	3.40		2011	G-003336
TPNRD	Mitigation	TP-TRANS-11.14		24	14	33	W	7.40		2011	G-073371
TPNRD	New/Expanded Use	TP-TRANS-11.14		24	14	33	W	7.40		2011	G-073371
TPNRD	Mitigation	TP-TRANS-11.09		20	14	36	W	6.00		2011	G-020902
TPNRD	New/Expanded Use	TP-TRANS-11.09		20	14	36	W	6.00		2011	G-001180
TPNRD	Mitigation	TP-TRANS-11.04		4	13	36	W	26.30		2011	G-111192
TPNRD	New/Expanded Use	TP-TRANS-11.04		30	13	38	W	26.30		2011	
TPNRD	Mitigation	TP-TRANS-11.20		3	13	39	W	14.01		2011	G-059362
TPNRD	New/Expanded Use	TP-TRANS-11.20		3	13	39	W	14.01		2011	G-059362
TPNRD	Mitigation	TP-TRANS-11.30		19	13	40	W	63.11		2011	G-042554
TPNRD	New/Expanded Use	TP-TRANS-11.30		20	13	40	W	63.11		2011	N/A
TPNRD	Mitigation	TP-TRANS-11.13		18	14	32	W	10.00		2011	G-021882

NRD	Type	NRD Permit	Permit Date	Section	Township	Range	E/W	Acres	Notes	Year Implemented	Permit ID
TPNRD	New/Expanded Use	TP-TRANS-11.13		18	14	32	W	10.00		2011	G-021882
TPNRD	Mitigation	TP-TRANS-11.45		1	12	30	W	22.16		2012	
TPNRD	New/Expanded Use	TP-TRANS-11.45		12	12	30	W	22.16		2011	G-032255
TPNRD	Mitigation	TP-TRANS-11.15		24	11	26	W	2.50		2011	G-111264
TPNRD	New/Expanded Use	TP-TRANS-11.15		24	11	26	W	2.50		2011	G-111264
TPNRD	Mitigation	TP-TRANS-11.19		23	11	26	W	3.21		2011	G-018262
TPNRD	New/Expanded Use	TP-TRANS-11.19		23	11	26	W	3.19		2011	G-024285
TPNRD	Mitigation	TP-TRANS-11.12		3	12	27	W	112.08		2011	G-064316
TPNRD	New/Expanded Use	TP-TRANS-11.12		18	12	29	W	112.08		2011	G-158606
TPNRD	Mitigation	TP-TRANS-11.49		19	13	29	W	4.00		2012	G-060207
TPNRD	New/Expanded Use	TP-TRANS-11.49		19	13	29	W	4.00		2012	G-060207
TPNRD	Mitigation	TP-TRANS-11.07		25	13	41	W	62.00		2011	G-046582
TPNRD	New/Expanded Use	TP-TRANS-11.07		30	13	40	W	62.00		2011	G-007346
TPNRD	Mitigation	TP-TRANS-11.08		30	13	40	W	2.33		2011	G-007346
TPNRD	New/Expanded Use	TP-TRANS-11.08		30	13	40	W	2.30		2011	G-007346
TPNRD	Mitigation	TP-TRANS-11.44		12	12	26	W	4.96		2011	G-028267
TPNRD	New/Expanded Use	TP-TRANS-11.44		12	12	26	W	4.96		2012	G-041380
TPNRD	Mitigation	TP-TRANS-11.17		5	12	27	W	2.21		2011	G-021130
TPNRD	Mitigation	TP-TRANS-11.17		4	12	27	W	1.43		2011	G-038214
TPNRD	New/Expanded Use	TP-TRANS-11.17		5	12	27	W	2.21		2011	G-038214
TPNRD	New/Expanded Use	TP-TRANS-11.17		4	12	27	W	1.43		2011	G-038214
TPNRD	Mitigation	TP-TRANS-11.31		32	12	26	W	4.00		2011	G-020339
TPNRD	New/Expanded Use	TP-TRANS-11.31		32	12	26	W	4.00		2011	G-020339
TPNRD	Mitigation	TP-TRANS-11.02		6	12	28	W	10.27		2011	G-073724
TPNRD	New/Expanded Use	TP-TRANS-11.02		6	12	28	W	10.27		2011	G-073724

*Indicates this part of the transfer was not in the 28/40 area. These transfers are still included in the totals in table 1 and the analysis for table 9.

Table 6: Groundwater Well Permits

NRD	Permit Type	NRD Permit	DNR Well Registration #	Permit Date	Section	Township	Range	E/W	Mitigation	Year Implemented
CPNRD	Dewatering	CPDW1011018		8/25/2011	3	8	16	W	No consumptive use*	2012
CPNRD	New Well	CPNP2411032		6/30/2011	27	11	25	W	Replacement for surface water acres; six-mile canal transfer	2011
CPNRD	Replacement Well	CPRP1010002	G-017913	2/1/2011	9	8	15	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP1011008	G-071006	4/19/2011	9	8	15	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP1011014	G-002899	6/23/2011	33	9	14	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP1011020	G-023162	10/18/2011	10	8	15	W	Replacement well- no new use	2012
CPNRD	Replacement Well	CPRP1011021	G-006504	10/18/2011	10	8	15	W	Replacement well- no new use	2012
CPNRD	Replacement Well	CPRP1011027	G-009834	12/20/2011	30	9	14	W	Replacement well- no new use	2012
CPNRD	Replacement Well	CPRP2411001	G-029003	1/19/2011	12	9	24	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP2411005	G-008283	2/16/2011	13	10	22	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP2411006	G-020270	2/16/2011	10	9	21	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP2411012	G-016108	3/16/2011	20	10	24	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP2411013	G-016295	3/16/2011	3	10	22	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP2411015	G-156627	3/22/2011	20	11	25	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP2411016	G-009637	3/24/2011	35	9	19	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP2411018	G-008776	3/28/2011	4	9	22	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP2411019	G-035082	3/31/2011	28	9	24	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP2411024	G-069782	4/18/2011	17	10	22	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP2411029	G-072653	5/16/2011	28	11	25	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP2411030	G-120627	6/9/2011	11	9	22	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP2411034	G-004071	6/30/2011	20	11	23	W	Replacement well- no new use	2011
CPNRD	Replacement Well	CPRP2411036	G-006870	9/12/2011	23	10	24	W	Replacement well- no new use	2012
CPNRD	Replacement Well	CPRP2411037	G-010183	9/20/2011	1	10	24	W	Replacement well- no new use	2012
CPNRD	Replacement Well	CPRP2411038	G-024201	9/21/2011	8	9	22	W	Replacement well- no new use	2012
CPNRD	Replacement Well	CPRP2411043	G-033030	11/21/2011	26	9	23	W	Replacement well- no new use	2012
CPNRD	Replacement Well	CPRP2411044	G-119568	11/21/2011	36	12	25	W	Replacement well- no new use	2012
CPNRD	Replacement Well	CPRP2411045	G-018422	11/22/2011	34	11	24	W	Replacement well- no new use	2012
CPNRD	Replacement Well	CPRP2411046	G-010576	12/5/2011	24	9	24	W	Replacement well- no new use	2012
CPNRD	Replacement Well	CPRP2411047	G-158873	12/14/2011	15	11	25	W	Replacement well- no new use	2012

NRD	Permit Type	NRD Permit	DNR Well Registration #	Permit Date	Section	Township	Range	E/W	Mitigation	Year Implemented
CPNRD	Replacement Well	CPRP2411048	G-000809	12/15/2011	29	11	22	W	Replacement well- no new use	2012
CPNRD	Supplemental GW	CPRSG2411020	G-160533	3/31/2011	20	11	25	W	No new use	2011
CPNRD	Supplemental GW	CPS4011009	G-160484	2/28/2011	9	9	11	W	No new use	2011
CPNRD	Supplemental GW	CPSG1011007		4/15/2011	35	9	15	W	No new use	2011
CPNRD	Supplemental GW	CPSG1011013	G-159609	6/16/2011	12	8	16	W	No new use	2011
CPNRD	Supplemental GW	CPSG2411003		2/7/2011	23	9	22	W	No new use	2011
CPNRD	Supplemental GW	CPSG2411009		2/24/2011	4	9	21	W	No new use	2011
CPNRD	Supplemental GW	CPSG2411022		4/6/2011	24	10	23	W	No new use	2011
CPNRD	Supplemental GW	CPSG2411023		4/11/2011	35	10	24	W	No new use	2011
CPNRD	Supplemental GW	CPSG2411025	G-159398	4/18/2011	35	10	24	W	No new use	2011
CPNRD	Supplemental SW	CPSS1011026		12/19/2011	33	9	18	W	No new use	2012
CPNRD	Supplemental SW	CPSS2411049		12/19/2011	31	10	23	W	No new use	2012
NPNRD	Replacement Well	RP-11001	G-123926	1/11/2011	28	24	57	W	Replacement well- no new use	2011
NPNRD	Replacement Well	RP-11003	G-011500	4/28/2011	17	19	49	W	Replacement well- no new use	2011
NPNRD	Replacement Well	RP-11007	G-045424	7/11/2011	10	22	55	W	Replacement well- no new use	2011
NPNRD	Replacement Well	RP-11010	G-027083	11/30/2011	31	21	52	W	Replacement well- no new use	2011
TPNRD	Replacement Well	TP-RP-11.15	G-059082	8/3/2011	34	7	17	W	Replacement well- no new use	
TBNRD	Dewatering	TBDW-1399	G-159762	5/19/2011	27	8	16	W	North Dry Creek Augmentation Well*	2011
TBNRD	Replacement Well	TBRP-A006702B	A-006702B	7/7/2011	15	8	20	W	Replacement well- no new use	2011
TBNRD	Replacement Well	TBRP-G001332	G-001332	3/7/2011	24	8	19	W	Replacement well- no new use	2011
TBNRD	Replacement Well	TBRP-G001588	G-001588	3/10/2011	25	8	19	W	Replacement well- no new use	2011
TBNRD	Replacement Well	TBRP-G006537	TBRP-G006537	11/22/2011	8	8	13	W	Replacement well- no new use	2012
TBNRD	Replacement Well	TBRP-G010388	TBRP-G010388	11/9/2011	25	7	18	W	Replacement well- no new use	2012
TBNRD	Replacement Well	TBRP-G012658-R1	G-012658	3/3/2011	24	8	14	W	Replacement well- no new use	2011
TBNRD	Replacement Well	TBRP-G013423	G-013423	2/8/2011	35	8	20	W	Replacement well- no new use	2011
TBNRD	Replacement Well	TBRP-G019936	G-019936	3/25/2011	18	8	13	W	Replacement well- no new use	2011
TBNRD	Replacement Well	TBRP-G027888	G-027888	3/25/2011	18	8	13	W	Replacement well- no new use	2011
TBNRD	Replacement Well	TBRP-G032621	G-032621	4/28/2011	19	8	17	W	Replacement well- no new use	2011
TBNRD	Replacement Well	TBRP-G033448	G-033448	8/18/2011	9	6	17	W	Replacement well- no new use	2012
TBNRD	Replacement Well	TBRP-G049790	G-049790	2/23/2011	13	8	14	W	Replacement well- no new use	2011
TBNRD	Replacement Well	TBRP-G055864	G-055864	10/12/2011	12	7	17	W	Replacement well- no new use	2012

NRD	Permit Type	NRD Permit	DNR Well Registration #	Permit Date	Section	Township	Range	E/W	Mitigation	Year Implemented
TBNRD	Replacement Well	TBRP-G061996	G-061996	10/20/2011	22	7	19	W	Replacement well- no new use	2012
TBNRD	Replacement Well	TBRP-G074834	G-074834	4/20/2011	30	8	15	W	Replacement well- no new use	2011
TBNRD	Replacement Well	TBRP-G085981	G-085981	7/7/2011	24	8	18	W	Replacement well- no new use	2011
TBNRD	Replacement Well	TBRP-G090051	G-090051	10/20/2011	3	7	19	W	Replacement well- no new use	2012
TBNRD	New Well-Transfer	TBTF-1400	G-161020	6/1/2011	34	8	14	W	Further details available under transfer TBAT-0095	2011

*Any timing effects due to the North Dry Creek Augmentation Well Project or the dewatering well will be evaluated as part of the 5 year review of all Nebraska activities.

Table 7: Variance Permits

NRD	NRD Permit	DNR Well Registration #	Permit Date	Section	Township	Range	E/W	Type of Variance	Mitigation	Year Implemented	Associated Well Permits
TBNRD		G-043133, G-040841	2/9/2011	25	8	14	W	Expanded Irrigated Acres	CRP land reinstated	2011	
TBNRD		G-024294	5/11/2011	30	8	15	W	Expanded Irrigated Acres	Livestock consumptive use converted to irrigation	2011	
TBNRD	TBSA-0001	G-159762	6/7/2011	27	8	16	W	Augmentation Well	North Dry Creek Augmentation Well	2011	TBDW-1399
TBNRD		G-113669	11/8/2011	15	7	18	W	Restored Irrigated Acres to 1997 Status	Certified acres corrected to account for use established prior to 1997	2012	
TBNRD		G-113669	11/8/2011	15	7	18	W	Restored Irrigated Acres to 1997 Status	Certified acres corrected to account for use established prior to 1997	2012	

Table 8: Surface Water Permits

Appropriation Number	Approval Date	Section	Township	Range	E/W	Acres	Grant in CFS	Grant in AF	Use	Mitigation	Associated Variance
A-18773	4/14/2011	15	11	25	W	N/A	70		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2069
A-18772	4/14/2011	9	10	24	W	N/A	25		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2070
A-18771	4/14/2011	30	12	26	W	N/A	75		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2072
A-18774	4/14/2011	14	12	43	W	N/A	150		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2068
A-18776	4/22/2011	18	10	23	W	N/A	75		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2077
A-18775	4/22/2011	19	12	26	W	N/A	75		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2076
A-18777	4/22/2011	3	8	18	W	N/A	50		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2071
A-18778	6/17/2011	8	13	29	W	N/A	350		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2007
A-18815	10/17/2011	13	14	34	W	N/A	120		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2166
A-18816	10/17/2011	7	14	32	W	N/A	45		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2168
A-18817	10/24/2011	27	22	55	W	N/A	20		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2178
A-18818	10/24/2011	18	21	53	W	N/A	20		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2165
A-18820	10/24/2011	14	18	47	W	N/A	40		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2177
A-18826	10/28/2011	18	14	33	W	N/A	60		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2167
A-18832	11/15/2011	3	21	54	W	N/A	40		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2181
A-18831	11/15/2011	1	20	53	W	N/A	50		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2193
A-18833	11/15/2011	32	22	54	W	N/A	40		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2164

Appropriation Number	Approval Date	Section	Township	Range	E/W	Acres	Grant in CFS	Grant in AF	Use	Mitigation	Associated Variance
A-18835	12/5/2011	17	22	55	W	N/A	25		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2213
A-18845	12/15/2011	18	14	36	W	N/A	60		Temporary Recharge	Excess flow diversion; no impact; no mitigation required	VAR-2169
A-18808	9/16/2011	9	13	36	W	N/A		3.07	Temporary Construction	Variance granted pursuant to 457 NAC 23.001.06; permit valid for 1 year, 9/16/2011 to 9/16/2012; 0.9 AF in 2011 and 2.17 AF in 2012	VAR-2156

Table 9: Effects to stream flow from 2011 to 2019 in the Platte River resulting from all groundwater and surface water permitting activities in 2011. A positive value for the net effect indicates that the permitted activities have an overall positive effect to streamflow. Values are given in acre-feet.

Year	Upstream of Critical Habitat Reach			Within Critical Habitat Reach			Aggregate Net Effect from Both Reaches
	Effect of New Uses	Effect of Mitigations	Net Effect	Effect of New Uses	Effect of Mitigations	Net Effect	Net Effect
2011	-40	115	75	-6	2	-4	70
2012	-72	163	91	-17	9	-8	83
2013	-90	190	100	-26	16	-10	90
2014	-106	209	103	-33	22	-11	92
2015	-118	222	104	-38	27	-11	93
2016	-129	233	104	-43	31	-12	93
2017	-138	242	104	-47	35	-12	92
2018	-146	249	104	-51	38	-13	91
2019	-152	256	103	-55	41	-13	90

Note: Some values do not sum properly in the table above due to rounding in the calculations.

Definition of terms

28/40 Area	The area within the North Platte, South Platte, or Platte River watershed in which groundwater intentionally withdrawn for 40 years will result in a cumulative stream depletion to the North Platte, South Platte, or Platte River or a baseflow tributary greater than or equal to 28% of the total groundwater consumed as a result of the withdrawals (see map 1).
Acre-Feet (AF)	A unit of volume, commonly used to measure quantities of water used or stored equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters.
Application/Appropriation Number	App Number (Docket and Application Numbers): Appropriations having docket numbers (D-) refer to claims covering rights which existed prior to April 4, 1895, or those rights that existed on the Missouri River that were covered by the law passed in 1980. Those appropriations having applications numbers (A-) were filed after April 4, 1895.
Area Correction	The correction of the amount of certified irrigated acres because acres with history of irrigation between 1997 and 2005 had not previously been classified as irrigated cropland by county assessors.
Augmentation Well	A groundwater well drilled to pump water into a stream to augment streamflows
CRP Reinstatement	Formerly irrigated land on which the water use had been temporarily retired under the federal Conservation Reserve Program that has since come out of retirement and may now be irrigated again.
Cubic Feet per Second (CFS)	The USGS defines cubic foot per second (cfs) as "the flow rate or discharge equal to one cubic foot of water per second or about 7.5 gallons per second."
Dewatering Well	A groundwater well drilled for the purpose of lowering the water table.
Grant in AF	The approved amount of acres per foot of water legally allowed to be pumped.
Grant in CFS	The approved amount of cubic feet per second of water legally allowed to be pumped.

PRRIP Critical Habitat Reach	The reach of the Platte River from Lexington, NE to Chapman, NE which is of critical importance to the endangered target species (see map 1).
Replacement Well	A groundwater well drilled to replace an existing groundwater well which has become unusable. The replaced well must be decommissioned. No increase in irrigated acres is associated with a replacement well unless a variance is granted.
Section/Township/Range	The legal description of where a well or water appropriation is located.
Temporary Recharge	A surface water permit issued for the purpose of diverting excess streamflow to recharge groundwater, intended to supply baseflow accretions back to the river.
Supplemental Well	A groundwater well drilled to either supplement an existing groundwater well or to augment surface water irrigation when surface water is not available. No increase in irrigated acres is associated with a supplemental well unless a variance is granted.
Transfer	To allow for 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 groundwater uses
Use	The legally accepted use of the well or water appropriation.
Variance	To allow an exception to the stay on new irrigated acres and new consumptive uses while providing adequate offsets or transfers to assure that there is no net increase in depletions to the river or impacts to existing surface water or groundwater uses; any request that is contrary to existing rules or regulations will require a variance