



Annual Report of Water Use Activities in the South Platte Natural Resources District

For the 2010 Basin-Wide Meeting

Report Years: 2006-2009

Date Prepared: June 29, 2010

Prepared By: Kyle Liebig, Water Resources Manager

Table of Contents

General Summary	3
Introduction.....	3
Certified Acres.....	4
Approved Transfers	4
Well Construction Permits.....	5
Municipal and Industrial Accounting.....	6
Flow Meter Data.....	6
Retired Acres and Other Stream Flow Accretion Activities	6
Other Water Banking Activities	7
Ground Water Levels.....	7
Map 1 – Overappropriated, Fully Appropriated and Nebraska New Depletion Plan Areas	8
Map 2 – Allocation Subareas and Allocations Through 2009	9
Map 3 – SPNRD 20 Year Water Level Differences	10
Appendix A – SPNRD Certified Irrigated Acres.....	11
Appendix B – SPNRD Transfers.....	12
Appendix C – SPNRD Consultation	18
Appendix D – SPNRD Well Permits	19
Appendix E – SPNRD Variances	20
Appendix F – SPNRD Water Usage.....	25
Appendix G – SPNRD Accretions.....	28
Appendix H – Summary of Water Use Activities in the SPNRD	29

**ANNUAL REPORT OF WATER USE ACTIVITIES
IN THE SOUTH PLATTE NATURAL RESOURCES DISTRICT
TO MEET THE REQUIREMENTS OF THE INTEGRATED MANAGEMENT PLAN
FOR THE 2010 BASIN-WIDE MEETING**

I. GENERAL SUMMARY

- A. The following is a compilation of records, statistics and historic conditions of water use which have been tracked by the South Platte Natural Resources District (SPNRD) for the years 2006-2009. All information supplied for this summary is available within a GIS database complete with the locations and attributes. This report has been compiled for the July 27, 2010 Basin-wide meeting.

II. INTRODUCTION

- A. This report is intended to satisfy the SPNRD tracking and reporting requirements as described by the Monitoring and Studies section of the SPNRD Integrated Management Plan (IMP). The SPNRD will be responsible for tracking the following activities within the District on an annual basis: (1) certification of ground water uses and any changes to these certifications; (2) approved transfers, including all of the information provided with the application and used in the approval of the transfer; (3) any flow meter data collected; (4) any water well construction permits issued; (5) any other permits issued by the SPNRD; (6) any conditions associated with any permits issued; (7) information gathered through the municipal and non-municipal industrial accounting process; (8) any variances issued, including: the purpose, the location, any required offset, the length of time for which the variance is applicable and the reasoning behind approval of the variance; (9) any retirements of irrigated acres or other activities by the SPNRD for the purpose of returning to a fully appropriated condition; (10) information related to any water banking transactions; and (11) offsets provided for depletions resulting from increased consumptive use related to the above listed items.

The items tracked and reported will subsequently be used by SPNRD and the Department of Natural Resources (DNR) to measure the success of the controls, incentive measures and other action items contained in the IMP at meeting the goals and objectives of the IMP. Two evaluation processes for measuring success are described in the IMP. The first is an annual evaluation that will forecast the balance of depletions and accretions from the report year through 2048. The second evaluation occurs periodically and will be more robust, including updating and running groundwater models. These evaluation processes will be carried out by the SPNRD and the DNR after the annual basin-wide meeting. The tracking, reporting, and evaluation processes are described in more detail in the Monitoring and Studies section of the IMP. In addition to the evaluation processes, the information that is tracked and reported will also be used by the State to help meet requirements of the Platte River Recovery Implementation Program (Program).

The 2010 report is the first report to be filed following approval of the Platte Basin IMPs in September 2009. Therefore, this report need only contain information on the above listed items from September 11, 2009, to December 31, 2009. However, to facilitate the exchange of information between the Department and the SPNRD, and because the information since the year 2005 is necessary for purposes of the Program, this report includes data tracked since January 1, 2006.

III. CERTIFIED ACRES

- A. The SPNRD began certifying ground water irrigated acres in October 2002 and ended the certification process in the first half of 2006. The SPNRD certified irrigated acres are based on historically irrigated acres proven by Farm Service Agency (FSA) maps, tax records or other appropriate documentation. The SPNRD has been approving variances to certify acres if the documentation supports that the acres in question were irrigated prior to the SPNRD's designation as either Overappropriated or Fully-Appropriated (See Appendix E for details on acre variances). The SPNRD has two types of certified acres, active and inactive. Active acres are any acres that are not enrolled in any federal programs that pay producers not to irrigate or belong to wells that are inactive and do not have a flow meter installed. These unused wells are enrolled in a SPNRD program called Temporary Deferment. Inactive acres (Temporary Deferment and federal program) do not receive an allocation until the federal program contract has expired or a meter is installed and the Temporary Deferment has ended. Detailed data regarding the number of certified irrigated acres can be found in Appendix A. Map 1 provides a look at the state designated areas in the SPNRD.

IV. APPROVED TRANSFERS

- A. From January 2006 through December 2009, the District approved four transfers. The total number of acres involved in these transfers considered to be new or moved to a new location is 245.7 acres. The total number of acres involved in these transfers considered for offset or decertified acres is 253.2 acres. Detailed data regarding the location, amount, and conditions associated with each transfer can be found in Appendix B. The SPNRD has also facilitated 12 pivot conversion projects where the landowner irrigated new acres, but was able to stop irrigating the same amount of acres in the same tract in order to offset the new acres. Details on pivot conversion projects can also be found in Appendix B. The SPNRD has looked at transfers on an acre for acre basis, but the offset acres had to be within a close geographical location.

DNR requested the SPNRD's consultation on five permits to transfer ground water to an adjoining state (Colorado), out of the five only three transfer permits were issued. Details of the approved out-of-state transfer permits can be found in Appendix C.

V. WELL CONSTRUCTION PERMITS

A. Supplemental Ground Water Wells

1. The SPNRD issued no supplemental ground water wells (coded SG).

B. Supplemental Surface Water Wells

1. The SPNRD issued no supplemental surface water well permits (coded SS).

C. Replacement Wells

1. The SPNRD issued 18 replacement well permits (coded RP), 15 of these were drilled. These are replacement wells for a well that has already been registered, and is no longer producing the amount of water for which it was originally designed. This could be due to several reasons such as casing collapse, pumping sand, water table drop or other reasons. For details on the permits in which wells were drilled, refer to Appendix D.

D. Temporary Wells

1. The SPNRD issued no temporary well permits (coded TP).

E. De-Watering Wells

1. The SPNRD issued no de-watering well permits (coded DW).

VI. OTHER PERMITS

A. The SPNRD did permit a new well, G-047444. Details on the stipulations of allowing a new large capacity well can be found in Appendix E, Tr-07-Central.

VII. VARIANCES

A. The SPNRD considers any request that acts in a manner that is contrary to existing rules or regulations of the District or the Department as a variance. The SPNRD has a Variance Advisory Group that reviews and makes recommendations to the SPNRD Board of Directors on all variances requested. The Board reviews variances on a case-by-case basis and as the elected governing body, the Board makes the final determination. For details of the approved variances refer to Appendix E. The majority of variances granted are poolings. A pooling arrangement is any arrangement approved by the Board that combines multiple certified irrigated tracts and the allocation is shared.

VIII. MUNICIPAL AND INDUSTRIAL ACCOUNTING

A. Contact

1. The SPNRD sent letters out to all owners of industrial/commercial wells that pump in excess of 50 gallons per minute (gpm). The SPNRD is currently in the process of identifying baselines. Work has begun with several municipalities in the District and municipal accounting information will be available by early 2011.

B. Reporting Data

1. The SPNRD handled several industrial accounting cases. The information received from contact during the summer 2010 will be entered into a database to help determine the baseline, and any deviation from that baseline on an annual basis.

C. Current Industrial Accounts

1. The SPNRD has accounted for new Industrial Commercial Uses since 2006. In all of these instances they were handled either as a Variance or Transfer. The details on these can be found in Appendix B, TR-08-NDOR and Appendix E; Tr-07-Central, Va-08-PBG&E, Va-08-Kielian/PBG&E and Va-09-PBG&E.

IX. FLOW METER DATA

A. The SPNRD has had flow meters installed in the entire District since 2009. All certified irrigated acres located in the Lodgepole Creek Valley have had an allocation in place beginning in 2007. The remainder of the District (Tablelands and South Platte Valley) have had an allocation in place since 2009. In 2009 the SPNRD Board of Directors voted to lower allocations for the Lodgepole Creek Valley Subareas from 54" and 48" for three years to 48" and 42". Please see Map 2 for a breakdown of allocations subareas, amounts and the number of flow meters for the District through 2009. Appendix F provides a detailed look at water usage for the three years the Lodgepole Creek subareas have been under allocation and the 2009 water usage for the Tablelands and South Platte Valley subareas.

X. RETIRED ACRES AND OTHER STREAM FLOW ACCRETION ACTIVITIES

A. The SPNRD will implement measures within the first ten (10) year increment of the IMP to offset an average annual depletion rate of one hundred fifty (150) acre-feet to the North Platte River, four hundred (400) acre-feet to the South Platte River, and one hundred fifty (150) acre-feet to Lodgepole Creek for the period 2043-2048. These rates are the current best estimates and are subject to change based upon new data and information.

Through 2009, the SPNRD retired or decertified 1,043 acres equating to an estimated 398 acre-feet of water benefitting the Lodgepole Creek (See Appendix G for a details on the

decertified acres). These acres are all located in the overappropriated Lodgepole Creek Valley. The SPNRD is completing appraisals in the South Platte Valley, which will give the SPNRD estimated values to purchase easements to convert certified irrigated acres in that subarea to dryland or other uses. The SPNRD is currently working with DNR to study ways to attain the 150 acre-feet to the North Platte River.

- B. With the addition of Venture Development Group Inc.'s subdivision to the City of Sidney, 66 certified irrigated acres, equating to 32.4 acre-feet of consumptive use accrued to the SPNRD. The acres were decertified and the well decommissioned. The SPNRD Board of Directors has not made a decision on the distribution of the 32.4 Acre-Feet accrued from this tract to offset future increases in consumptive use by the City of Sidney. See Appendix G for more detail.
- C. A re-timing project on the Western Irrigation District is being currently studied with the DNR and Twin Platte Natural Resources District (TPNRD).
- D. The SPNRD and North Platte Natural Resources District (NPNRD) began work on a regional ground water model, Western Water Use Model (WWUM), for the two Districts in 2009. This regional model will build upon the modeling work that was completed during SPNRD and NPNRD's time spent participating in COHYST.

XI. OTHER WATER BANKING ACTIVITIES

- A. The SPNRD is currently working with a company in Lincoln, GIS Workshop to design and implement water banking software in accordance with the IMP. This project is slated to be completed in winter 2010.

XII. GROUND WATER LEVELS

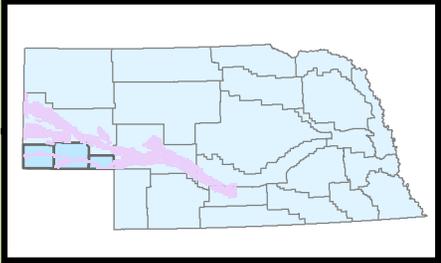
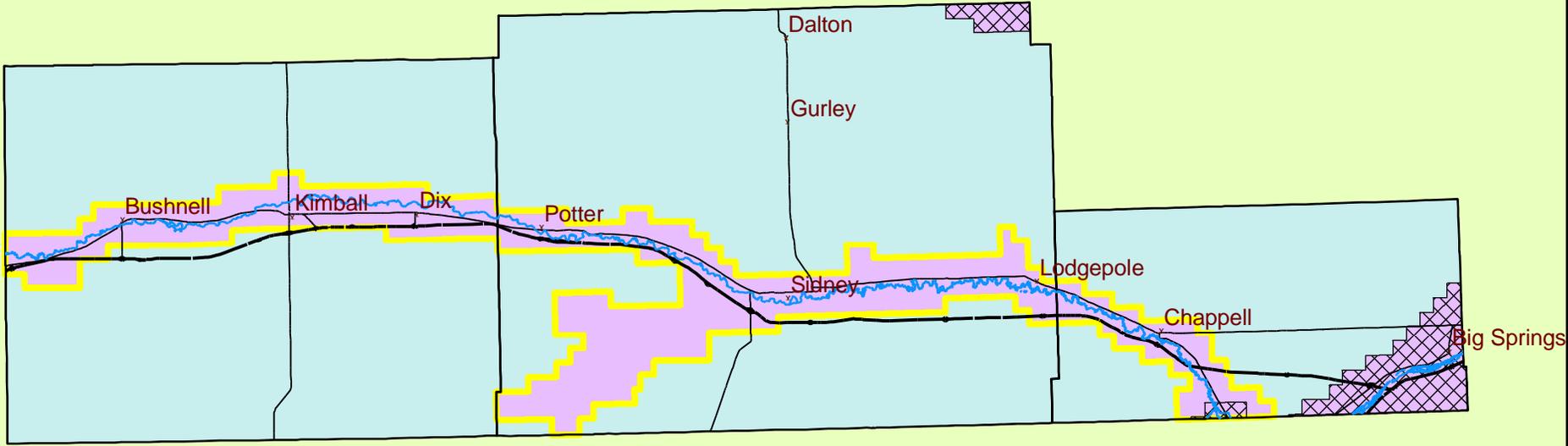
- A. Tracking and reporting of ground water levels is not required in the IMP. The SPNRD measures 150 observation wells in the spring and fall of each year as well as taking water levels on six recorder wells on a monthly basis. The SPNRD will be drilling 39 observation/monitoring wells over the next three years in an effort to better the distribution of observation wells and improve our understanding of areas of the District with inadequate coverage. This is made possible through a Nebraska Environmental Trust Fund grant (NETF). Map 3, depicts the 20-year water level difference for the District between the Spring of 1991 to the Spring of 2010.

Overappropriated, Fully Appropriated and Nebraska New Depletion Plan Areas

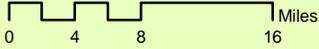


Explanation

- Nebraska New Depletion Plan 28%/40-year Area
- Lodgepole_Creek_Subarea
- Fully Appropriated
- Over Appropriated



4

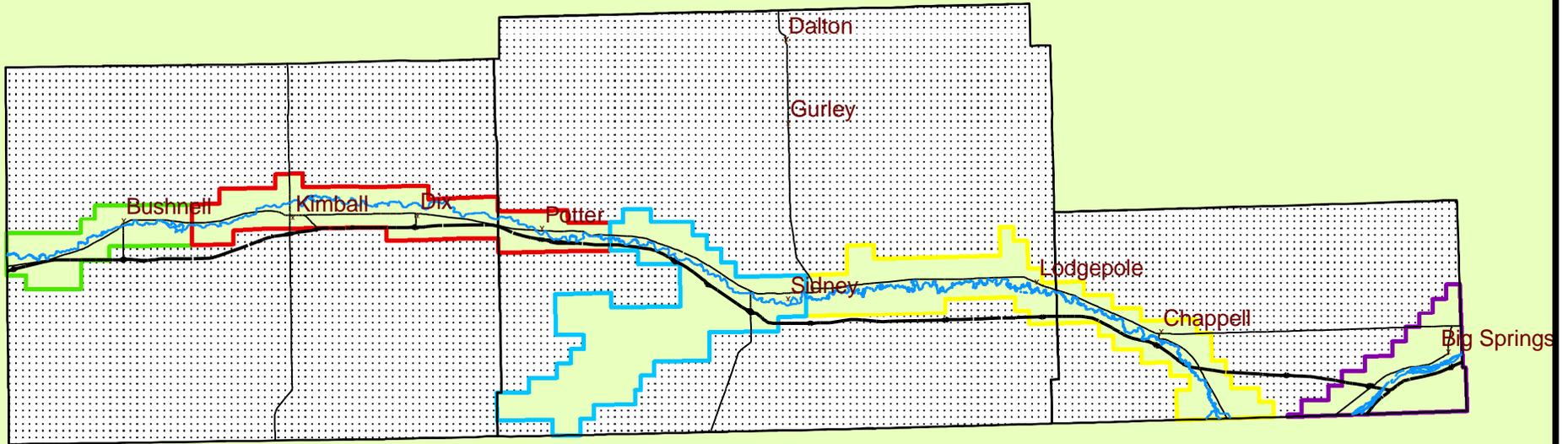


Allocation Subareas and Allocations Through 2009

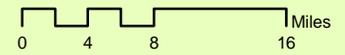


Explanation

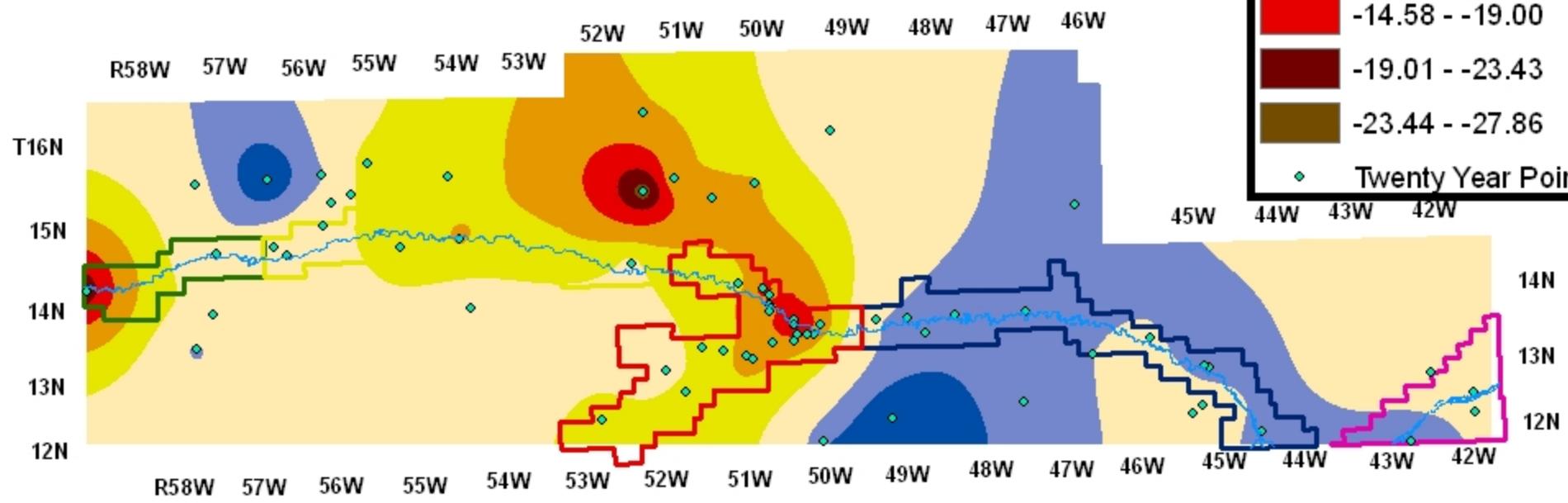
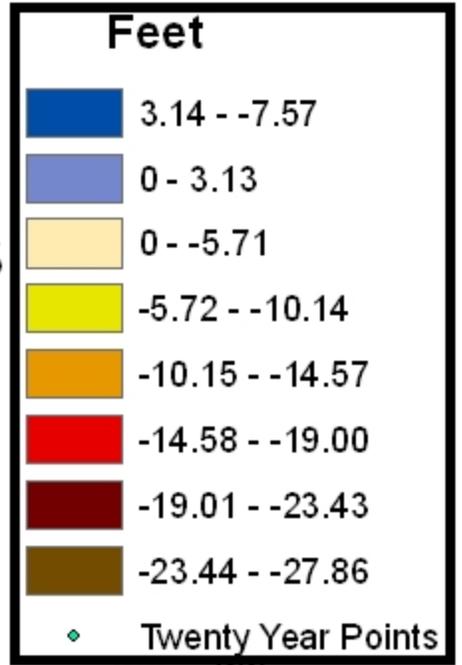
- Pine Bluffs to Oliver Reservoir; ; 16"/year or 48" for 2007 through 2009
- Oliver Reservoir to Buffalo Bend; 18"/year or 54" for 2007 through 2009
- Buffalo Bend to Sidney; 16"/year or 48" for 2007 through 2009
- Sidney to Colorado; ; 18"/year or 54" for 2007 through 2009
- South Platte Valley; 20"/year or 80" for 2009 through 2012
- Tablelands; 20"/year or 80" for 2009 through 2012



4

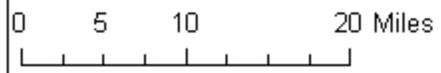


SPNRD 20 Year Water Level Differences



South Platte NRD 20 Year Stats by County

County	Ave	Max	Min	Count	Decline	% Declines
Kimball	-4.45	7.58	-23.69	17	14	82.4%
Cheyenne	-8.37	6.69	-27.99	38	30	79.0%
Deuel	-0.36	2.85	-4.59	10	5	50.0%



Appendix A

SPNRD Certified Irrigated Acres

	Kimball	Cheyenne	Deuel	Total
Active Overappropriated	16,423.96	18,930.43	14,642.08	49,996.47
Inactive Overappropriated	634.00	1,430.30	489.68	2,553.98
Active Fully-Appropriated	25,313.07	43,619.00	9,340.04	78,272.11
Inactive Fully-Appropriated	607.16	1,179.80	582.90	2,369.86
Total Certified	42,978.19	65,159.53	25,054.70	133,192.42
Decertified	190.80	828.80	23.40	1,043.00
Total Cert. Acres in PRRIP Area	0.00	55.80	10,521.23	10,577.03

Appendix B

SPNRD Transfers

To/From	NRD	Name	Legal Location					Certified	Notes	Date	Acres	"+/- "
	Permit		T	R	E/W	S	Additional	# Acres		Approved	Moved	
Transfer From:	Tr-07- CrMass	Craig Mass	16	51	W	27	NW	133.7	End gun removed	7/10/2007	9.9	
			16	51	W	27	NE	134.4	End gun removed	7/11/2007	9.8	
			16	51	W	27	SW	132.3	End gun removed	7/12/2007	12.7	
			16	51	W	19	NW	136.2	End gun removed	7/13/2007	11.1	
			16	51	W	19	NE	136.2	End gun removed	7/14/2007	8.8	
			16	51	W	19	SW	136.5	End gun removed	7/15/2007	10.3	
			16	51	W	19	SE	137	End gun removed	7/16/2007	11.3	
			16	#	W	#	SE	131.9	End gun removed	7/16/2007	10.8	
			15	#	W	6	NW	132.7	End gun removed	7/17/2007	8.9	
			#	#	W	6	NE	134.3	End gun removed	7/18/2007	10.6	
			#	#	W	#	SW	130	End gun removed	7/19/2007	5.9	
			#	#	W	#	E	128	End gun removed	7/20/2007	11.5	
			#	#	W	#	SE	130.4	End gun removed	7/21/2007	13.6	
Total										135.2	7.5	
Transfer To:		Craig Maas	16	52	W	26	NE	127.7	New pivot uses existing well.		127.7	
Transfer From:	Tr-07- Mossberg	Marshall Mossberg	15	#	W	28	NW	46.7	Kimball Bypass comes through field, decommissioned well and transferring acres and drilling replacement when Bypass is completed. Transferring to same or adjoining section	12/18/2007	46.7	
Transfer To:		Marshall Mossberg	15	#	W	21		46.7	Exact location is pending until Bypass project is completed.		46.7	

Transfer From:	Tr-08-Dowd	Gene Dowd	15 # W 33 NW	63.3	Kimball Bypass comes through field, transferring acres to the same quarter around the Bypass once Bypass is completed.	2/12/2008	63.3
Transfer To:		Gene Dowd	15 # W 33 NW	63.3	Pending completion of Bypass project.		63.3
Transfer From:	TR-08-Shaw	Doug Gunderson	15 # W 34 NE	8	Transferring acres to cover for account for Prairie Animal Clinic's violation of irrigating acres that were not Certified.	3/11/2008	
Transfer To:		Praire Animal Clinic	15 # W 30 SW	8	Was in violation, found to be irrigating with a new well, G-146038, @ greater than 50gpm. And had no certified acres.		8
Transfer From:	TR-08-NDOR	Nebraska Dept. of Roads	15 # W 28 SW	94	NDOR purchased Cert. Tract #15N55W280004 and the well that irrigates it, A-004408. NDOR will not be irrigating the acres from the fall of 2008 through the fall of 2011. They will be using the well however. They will be transferring 112.8 AF/year of water from the acres to the new use of the well which is Commercial/Industrial		

Transfer To:		Nebraska Dept. of Roads	15	#	W	28		112.8 AF	The 112.8 AF was calculated by using the historic crop for the tract of land multiplied by the CIR (Corn and 14.4). Stream Depletion Factor did not matter, since the same well will be used. NDOR was granted the ability to pump up to 338.4 AF for the three years. At the end of the three years, any unused portion will accrue to the SPNRD, if NDOR is over the 338.4 AF amount, the acres will lie dormant until the balance is zero. See DNR's Water Matters - New Water Use Offset Calculation. For further details on determining the offset needed.		
Transfer From:	PVT-07-001	Jane & Sharon Johnson	15	53	W	34	N1/2	238.8	Moving acres to adjoining section to cover new pivot.	9.5	0.3
Transfer To:		Jane & Sharon Johnson	15	53	W	35	NW	238.8	Installed pivot that watered new acres.	9.2	
Transfer From:	PVT-07-002	Norma, Todd & Tom Johnson	12	53	W	1	NE	258.6	Moving acres around to cover for new pivot within the same tract.	23	

Transfer To:		Norma, Tom & Todd Johnson	12	53	W	1	NE	258.6	Installed new pivot that increased acres, but they decertified acres in the same tract.		23
Transfer From:	PVT-07-003	Don Soucie	14	47	W	35	NENE	71.45	Moving acres around to cover for new pivot within the same tract.	1/25/2008	5.8
Transfer To:		Don Soucie	35	47	W	35	E1/2NE	74.45	Installed new pivot that increased acres, but they decertified acres in the same tract.		5.8
Transfer From:	PVT-08-004	Melinda K. Nelsen	12	42	W	17	SW & S1/2	335	Moved acres around to cover for new pivot within the same tract.	2/29/2008	59
Transfer To:		Melinda K. Nelsen	12	42	W	7	SE	335	Installed new pivot that increased acres, but they decertified acres in the same tract.		59
Transfer From:	PVT-08-005	Jerry Gregory	15	56	W	25	NE	61	Moved acres around to cover for new pivot within the same tract.	1/29/2008	3.75
Transfer To:		Jerry Gregory	15	56	W	25	NE	61	Installed new pivot that increased acres, but they decertified acres in the same tract.		3.75
Transfer From:	PVT-08-006	Max Garvin	13	48	W	6	N1/2	112.6	Moved acres around to cover for new pivot within the same tract.	6/9/2008	41.7
Transfer To:		Max Garvin	13	48	W	6	NW	112.6	Installed new pivot that increased acres, but they decertified acres in the same tract.		41.7

Transfer From:	PVT-08-007	Miller Wheat Farms	14	48	W	35	NE	105.5	Moved acres around to cover for new pivot within the same tract.	6/15/2008	28.9
Transfer To:		Miller Wheat Farms	14	48	W	35	NE	105.5	Installed new pivot that increased acres, but they decertified acres in the same tract.		28.9
Transfer From:	PVT-08-008	WJD Ranch	15	57	W	27	SE	143.78	Moved acres around to cover for new pivot within the same tract.	9/3/2008	10.5
Transfer To:		WJD Ranch	15	57	W	27	SE	143.78	Installed new pivot that increased acres, but they decertified acres in the same tract.		10.5
Transfer From:	PVT-08-009	John Miller	15	54	W	26	NE	76.6	Moved acres around to cover for new pivot within the same tract.	5/14/2009	5
Transfer To:		John Miller	15	54	W	26	NE	76.6	Installed new pivot that increased acres, but they decertified acres in the same tract.		5
Transfer From:	PVT-09-010	DANA Farms	12	42	W	10	NE	147.4	Moved acres around to cover for new pivot within the same tract.	6/8/2009	5
Transfer To:		DANA Farms	12	42	W	10	NE	147.4	Installed new pivot that increased acres, but they decertified acres in the same tract.		5
Transfer From:	PVT-09-011	B&M Farm	15	55	W	29	NE	89.9	Moved acres around to cover for new pivot within the same tract.	06/10/09	4.5

Transfer To:		B&M Farm	15	55	W	29	NE	89.9	Installed new pivot that increased acres, but they decertified acres in the same tract.	4.5
Transfer From:	PVT-09-012	Cottonwood Land & Cattle LLC	15	56	W	32	SW	41.3	Moved acres around to cover for new pivot within the same tract.	4
Transfer To:		Cottonwood Land & Cattle LLC	15	56	W	32	SW	41.3	Installed new pivot that increased acres, but they decertified acres in the same tract.	4

Appendix C

SPNRD Consulation

Transfer ID	Name	T	R	E/W	S	Additional	Transfer To:	Acre-Feet to Transfer	Offset	Notes	Date Approved	Expiration Date	
TA-38 and I-15	Bruce Nienhueser	12	49	W	22	SW	Logan County, CO	12.125 AF/year		All water transferred is metered and Mr. Nienhueser can not irrigate 32.5 acres for the 2007 irrigation season.	6/25/2007	12/31/2008	
TA-39 and I-16	Dave Wieser	12	53	W	2	SW & NW	Logan County, CO	40AF		All water transferred is metered and deducted from allocation and Mr. Wieser can not irrigate 34.2 for the 2007 irrigation season.	6/25/2007	12/31/2007	
TA-43 and I-15A	Bruce Nienhueser	12	49	W	22	SW	Logan County, CO	38 AF/year		All water transferred is metered and deducted from irrigation allocation on the same well.	This permit replaced TA-38 and I-15 and extended the expiration date.	2/6/2009	12/31/2012

Appendix D

SPNRD Well Permits 2006-2009								
Permit #	Applicant	Approval Date	Expiration Date	TWN	RNG	SEC	Registration#	Replacement
SP-160-2006	James M. Prince	6/12/2006	12/12/2005	14	58	1	G-019889	yes
SP-161-2006	Alger Family Trust c/o John Widdowson	7/11/2006	1/11/2006	13	46	4	G-140468	yes
SP-162-2006	Tom, Todd, Michelle Johnson	8/9/2006	2/9/2007	12	53	1	A-002903	yes
SP-163-2007	Dr. & Mrs. R F Newell (Bob)	8/7/2007	2/7/2008	15	55	19	G-015452	yes
SP-164-2007	Jack Hockersmith	11/15/2007	5/15/2008	14	58	8	G-046348	yes
SP-165-2007	Clayton Shoemaker	11/20/2007	5/20/2008	17	51	29	G-047444	yes
SP-166-2007	Val Dean & Kathleen Snyder (Central Sand & Gravel)	12/19/2007	6/19/2007	15	56	13	G-146042	no
SP-167-2008	W.H. Palser Farms Inc	1/28/2008	7/28/2008	12	42	15	G-007714	yes
SP-168-2008	Tisdale Family Trust c/o Don Tisdale	1/28/2008	7/28/2008	15	53	31	G-012794	yes
SP-169-2008	Clifford E. Beyer	3/5/2008	9/5/2008	17	48	28	G-043722	yes
SP-170-2008	DANA Farms	3/5/2008	9/5/2008	12	42	10	G-014432	yes
SP-RP-180-2008	Derry Farms Inc	2/2/2009	8/2/2009	13	44	21	G-060562	yes
SP-RP-181-2009	Harold McClung	5/14/2009	11/15/2009	13	42	19	G-072348	yes
SP-RP-182-2009	Sharon A. Johnson & Jane M Johnson			15	53	35	G-005192	yes
SP-RP-183-2009	Village of Gurley	6/9/2009	12/9/2009	16	49	31	G-122714	yes
SP-RP-184-2009	Leo Jessen Wyo-Braska, Inc	7/15/2009	1/15/2010	14	44	10	G-031737	yes

APPENDIX E

SPNRD Variances

Date of Action	ID #	Tshp	Rnge	Sec	Name	Type	Notes
4/10/2007	Po-07-RaMiller	13	49	4	Randy Miller/NeLand/Deer Run LLC	Pooling	Allow a pipeline to physically connect two wells that are in two different subareas and create one large tract.
4/10/2007	Po-07-RaMiller	13	49	4	Randy Miller/NeLand/Deer Run LLC	Pooling	Tract spans across two subareas, therefore it was granted a hybrid allocation of 17"/year allocation for the 2007, 2008 and 2009 water years.
4/10/2007	Po-07-LaGlassburn	14	48	34	Glassburn Farms	Pooling	Request to pool all tracts into one tract.
4/10/2007	Po-07-JoWilliams	14	47	13	James R Williams Trust	Pooling	Ownership pooling
4/10/2007	Ne-Tr-07-Wieser	12	53	2	Dave Wieser	Out-State Transfer	Adjoining state transfer permit consultation. Water is deducted from allocation and 34.2 acres can not be irrigated in 2007. See Appendix B - Consultations
4/10/2007	Ac-07-WaKielian	15	53	30	Walter Kielian	Acre Modification	Reflect irrigated history; Certified additional 39.5 acres in Section 30, based on documentation proving those acres were irrigated prior to July 16, 2004.
5/8/2007	Po-07-Lukassen/Reuter/BELF	15	54	25	Tim Lukassen/NBELF	Pooling	Ownership pooling
5/8/2007	Po-07-RoRunge/BELF	13	51	9	Bob Runge/NBELF	Pooling	Ownership pooling

5/8/2007	Po-07-DaHummermeier	13	45	9	Dale Hummermeier/NBE LF	Pooling	Ownership pooling
7/10/2007	Tr-07-CrMaas	16	52	26	Craig Maas	Transfer	End guns removed-transfer to new pivot (20" allocation area in 2009) requested removing the end guns from ten pivots and permanently transferring approximately 130 acres (no increase in irrigated acres) to the NE ¼ of 26-16-52. See Appendix A - Transfers
7/10/2007	Po-07-IoChilders/NBELF	14	50	36	Ioan Childers/NBELF	Pooling	Ownership pooling
12/18/2007	Tr-07-MaMossberg	15	55	28 and 21	Marshall Mossberg	Transfer	Kimball Bypass going over current irrigation well and a majority of acres. Variance approved to redrill well, G-015160. and move acres around the highway once highway is completed.
12/18/2007	Tr-07-Central	15	56	13	Central Sand & Gravel/Val Deane Snyder	Industrial Offset	Install Lg Cap pump in G-146042, at their gravel pit on the Val Deane Snyder property in Kimball County. Well to be used for aggregate production. When the aggregate in the immediate area is depleted, this new well will be decommissioned or turned into a livestock well. Any water pumped from this well is deducted from Mueller Cattle Co's allocation for tract# 15N56W230005.
2/12/2008	Ac-08-GeDowd	15	55	33	Gene Dowd	Acre Modification	Kimball Bypass going through certified irrigated tract. Variance approved to move acres around highway once project is completed.
2/12/2008	Ac-08-Derry-Floyd Derry Farms Inc.	12	45	10, 15	Floyd Derry Farms Inc.	Acre Modification	Certified additional 9.2 acres, based on documentation proving those acres were irrigated prior to July 16, 2004.
2/12/2008	Ac-08-Derry-Derry Farms Inc.	13	45	23	Derry Farms Inc.	Acre Modification	Certified additional 45.3 acres, based on documentation proving those acres were irrigated prior to July 16, 2004.
4/8/2008	Ac-08-ToBiggs	13	50	2	Tom Biggs	Acre Modification	Reflect irrigated History; Certified additional 5.4 acres, based on documentation proving those acres were irrigated prior to July 16, 2004.

4/8/2008	Ac-08-ElBurback	15	55	20	Elizabeth Burback	Acres Modification	Reflect irrigated History; Certified additional 9.3 acres, based on documentation proving those acres were irrigated prior to July 16, 2004.
5/13/2008	Va-08-Kielian/PBG&E	13	49	3	Kielian Residuary Family Trust	Industrial Offset	Allow Pine Bluffs Gravel and Excavation to draw water with flow meter at dump site on well, G-059901. All water pumped is metered and deducted from the allocation for Tract#13N49W030001.
5/13/2008	Va-08-Twarling	17	52	27	Randy and Reggie Twarling	Pooling	Ownership pooling
5/13/2008	Ac-08-COAtkins	13	50	7	Pual Hutchison/CO Atkins Trust	Acres Modification	Reflect irrigated History; Certified additional 48.79 acres, based on documentation proving those acres were irrigated prior to July 16, 2004.
6/10/2008	Ac-08-Tisdale Family Trust	31/	54	15	Tisdale Family Trust	Acres Modification	Reflect irrigated history; Certified additional 108.2 acres in Section 31 and an additional 56.5 acres in Section 35, based on documentation proving those acres were irrigated prior to July 16, 2004.
4/10/2007	Ac-07-ElBurback	15	55	20		Acres Modification	Reflect irrigated history; Certified additional 121.1 acres, based on documentation proving those acres were irrigated prior to July 16, 2004. These acres were never certified initially.
1/13/2009	Va-08-PBG&E	15	56	13	Pine Bluffs Gravel & Excavating/Val Deane Snyder	Industrial Offset	PBGE is requesting to use Commercial Well, G-146042, and deduct all water used from Mueller Cattle Co.'s irrigation allocation for Tract#15N56W230005. This variance replaces variance Tr-07-Central.
1/13/2009	Ac-08-AlHansen	15	52	7	Alan Hansen	Acres Modification	Reflect irrigated history; Certified additional 25 acres in Section 7, based on documentation proving those acres were irrigated prior to July 16, 2004.
1/13/2009	Ac-08-JoFaessler	13	47	22	John Faessler	Acres Modification	Reflect irrigated History; Certified additional 12.3 acres, based on documentation proving those acres were irrigated prior to July 16, 2004.
1/13/2009	Po-08-Halstead	13	53	18	Bryce Halstead	Pooling	Ownership pooling
1/13/2009	Po-08-DCN/NEBELF	14	56	17	Dave Norberg/DCN Inc.	Pooling	Ownership Pooling
1/13/2009	Po-08-FourD/Fischer	16	57	8	Four Diamond Ranch LLC	Pooling	Ownership pooling

1/13/2009	Po-08-Wilke	16	54	32	Erwin Wilke/Todd Wilke	Pooling	Ownership pooling
1/13/2009	Po-08-Evertson	16	56	31	Kirk Evertson/Debra Evertson	Pooling	Ownership pooling
1/13/2009	Po-08-Johnson	16	54	4	Ryan Johnson/B&N Johnson	Pooling	Ownership pooling
1/13/2009	Po-08-Nienhuser	12	49	17	Tyler Nienhuser/Jack Nienhuser	Pooling	Ownership pooling
1/13/2009	Po-08-Tremain/Wittig	16	47	30	Donna Tremain Living Trust	Pooling	Ownership pooling
1/13/2009	Po-08-Fehringer	12	49	7	George Fehringer Co./Bernie Frhringer	Pooling	Ownership pooling
1/13/2009	Po-08-Mahr	12	49	18	Steve Mahr	Pooling	Ownership pooling
1/13/2009	Po-08-Orbern/Schub	16	51	31	Adella Orberndorfer	Pooling	Ownership pooling
1/13/2009	Po-08-Palser/NBELF	12	42	16	WH Palser Farms/NBELF	Pooling	Ownership pooling
1/13/2009	Po-08-Five/Neu/Gragg	12	42	3	Five Birds LLC	Pooling	Ownership pooling
1/13/2009	Po-08-Derry Farms/NBELF	13	42	16	Derry Farms Inc./NBELF	Pooling	Ownership pooling
2/10/2009	Ac-09-DoFrerichs	14	48	27	Don Frerichs	Acre Modification	Reflect irrigated history; Certified additional 59.6 acres, based on documentation proving those acres were irrigated prior to July 16, 2004. These acres were never initially certified.
3/10/2009	Ac-09-AnRossini Trust	16	54	6	Matt Varra	Acre Modification	Reflect irrigated history; Certified additional 13.1 acres, based on documentation proving those acres were irrigated prior to July 16, 2004.
3/10/2009	Po-09-McClung	12	47	2	Harold McClung/AZ RanchCo	Pooling	Ownership pooling
3/10/2009	Po-09-Brauer	12	49	1,2	Brauer et al.	Pooling	Ownership pooling
5/12/2009	Va-09-PBG&E	12	44	1	Pine Bluffs Gravel & Excavating/Ira Orth/Micheal Smith	Industrial Offset	PBGE is requesting to use Commercial Well,G-074242, and deduct all water pumped from Ira Orth's allocation on Tract# 12N43W210001.
5/12/2009	Po-09-Leef	13	44	24	J and Evelyn Leef	Pooling	Ownership pooling
5/12/2009	Po-09-Nelsen/Diaz	12	42	17/18	Diaz/Nelsen	Pooling	Ownership pooling

5/12/2009	Ac-09-Johnson/Schadegg	12	43	13	E. Lyle Johnson	Acre Modification	Reflect irrigated history; Certified additional 16.21 acres, based on documentation proving those acres were irrigated prior to July 16, 2004.
5/12/2009	Ac-09-Quinn/Adamson	15	56	33	Alan Adamson	Acre Modification	Reflect irrigated history; Certified additional 17.49 acres, based on documentation proving those acres were irrigated prior to July 16, 2004.
5/12/2009	Ac-09-Adamson	15	57	31	Alan Adamson	Acre Modification	Reflect irrigated history; Certified additional 34.6 acres, based on documentation proving those acres were irrigated prior to July 16, 2004.
6/9/2009	VA-09-Johnson	15	53	34	Sharon and Jane Johnson	Variance	Drilling replacement well that waters a different tract than the original well irrigated.
6/9/2009	Ac-09-Sanddraw	15	55	1	Michael Peterson	Acre Modification	Refelct irrigated history; Certified additional 3.41 acres, based on documentation proving those acres were irrigated prior to July 16, 2004.

Appendix F
South Platte Natural Resources District
Water Usage Report

Lodgepole Creek Valley

Analysis Period: 2007 - 2009

Report Prepared: June 23, 2010

Permitted 3-Year Allocation: 54" and 48" (for 2007 - 2009)

Average Carryforward: 9.21"

Average Remaining Allocation: 23.57"

	2007	2008	2009	Total
Weighted Avg. Inches Pumped*	11.61	10.75	8.52	30.88
High	101.66	33.48	29.38	
Median	11.44	10.13	7.66	
Total Acre-Foot Pumped	36,401.56	35,191.14	26,201.06	97,793.76
Total Acres-Inches Pumped	436,818.70	422,293.68	314,412.73	1,173,525.11
Total Acres-Inches Pumped ÷ By Total Acres	10.94	10.49	7.80	29.23
Total Number of Certified Irrigated Acres				42,544
Total Number of Active Certified Irrigated Acres	39,926.1	40,261.6	40,262.1	

Range of Inches Used:

Scale	2007	2008	2009	Scale	2007 - 2009
0 - 4	18%	19%	28%	0 - 12	17%
4.01 - 8	13%	14%	24%	12.01 - 24	18%
8.01 - 12	25%	31%	30%	24.01 - 36	33%
12.01 - 16	26%	22%	13%	36.01 - 48	25%
16.01 - 20	11%	11%	2%	48.01 - 60	5%
20+	6%	4%	2%	60+	1%

Crop Water Usage:**

Crop	2007 Avg. In.	2007 Acres	2008 Avg. In.	2008 Acres	2009 Avg. In.	2009 Acres
Alfalfa	12.5	6,642.0	12.0	6,422.0	8.9	5,379.4
Beans	10.6	604.9	10.9	720.1	7.9	1,647.7
Corn	13.3	16,330.0	12.4	15,608.6	9.7	15,934.4
Fallow	0.0	0.0	0.0	0.0	0.0	42.8
Hay	8.4	1,732.3	7.7	1,873.1	6.4	1,429.0
Other	1.6	129.2	3.3	129.2	6.3	223.2
Pasture	9.7	2,482.1	9.3	2,397.8	6.9	2,489.2
Potatoes	0.0	0.0	0.0	0.0	9.6	129.3
Small Grains	6.6	10,006.9	6.5	10,030.2	3.7	9,053.6
Sugar Beets	16.3	1,283.0	17.8	1,600.8	13.0	2,123.1
Sunflowers	6.9	715.8	9.0	1,479.7	4.3	1,810.6
All Crops	10.9	39,926.1	10.5	40,261.6	7.8	40,262.1

* Calculated by removing the high use tract and the tracts that did not use any water, then calculated the usage of all tracts individually and averaged those numbers.

** Crop Water Usage is based off of the number of acres per crop, which are based on field observations taken at the time flow meters are read. Crop Water Usage could be subject to change as more accurate crop-acre information becomes available.

**South Platte Natural Resources District
Water Usage Report**

Tablelands

Analysis Period: 2009

Report Prepared: June 23, 2010

Permitted 4-Year Allocation: 80" (for 2009 - 2012)

	2009
Weighted Avg. Inches Pumped*	7.16
High	51.02
Median	6.29
Total Acre-Foot Pumped	44,824.58
Total Acres-Inches Pumped	537,894.98
Total Acres-Inches Pumped ÷ By Total Acres	6.87
Total Number of Certified Irrigated Acres	80,697.7
Total Number of Active Certified Irrigated Acres	78,327.8

Range of Inches Used:

Scale	2009
0 - 4	26%
4.01 - 8	37%
8.01 - 12	24%
12.01 - 16	11%
16.01 - 20	1%
20+	0%

Crop Water Usage:**

Crop	2009 Avg. In.	2009 Acres
Alfalfa	9.3	6,969.9
Beans	5.6	6,484.7
Corn	9.0	25,828.5
Hay	6.2	2,386.1
Other	2.8	318.4
Pasture	5.8	3,638.0
Small Grains	4.3	24,850.3
Sugar Beets	10.7	4,590.9
Sunflowers	4.1	3,260.9
All Crops	6.9	78,327.8

* Calculated by removing the high use tract and the tracts that did not use any water, then calculated the usage of all tracts individually and averaged those numbers.

** Crop Water Usage is based off of the number of acres per crop, which are based on field observations taken at the time flow meters are read. Crop Water Usage could be subject to change as more accurate crop-acre information becomes available.

**South Platte Natural Resources District
Water Usage Report**

Subarea: South Platte Valley

Analysis Period: 2009

Report Prepared: June 23, 2010

Permitted 4-Year Allocation: 80" (for 2009 - 2012)

	2009
Weighted Avg. Inches Pumped*	13.35
High	36.65
Median	12.54
Total Acre-Feet Pumped	9,530.88
Total Acres-Inches Pumped	114,370.50
Total Acres-Inches Pumped ÷ By Total Acres	11.82
Total Number of Certified Irrigated Acres	9,950.6
Total Number of Active Certified Irrigated Acres	9,678.6

Range of Inches Used:

Scale	2009
0 - 4	18%
4.01 - 8	2%
8.01 - 12	24%
12.01 - 16	31%
16.01 - 20	14%
20+	11%

Crop Water Usage:**

Crop	2009 Avg. In.	2009 Acres
Alfalfa	6.6	573.2
Beans	12.9	209.0
Corn	13.1	7,789.7
Hay	0.0	254.2
Pasture	2.0	48.8
Small Grains	4.0	433.7
Sugar Beets	12.5	293.4
Sunflowers	4.7	76.7
All Crops	11.8	9,678.6

* Calculated by removing the high use tract and the tracts that did not use any water, then calculated the usage of all tracts individually and averaged those numbers.

** Crop Water Usage is based off of the number of acres per crop, which are based on field observations taken at the time flow meters are read. Crop Water Usage could be subject to change as more accurate crop-acre information becomes available.

Appendix G

SPNRD Accretions								
Landowner	#of CIA	Stream Depletion %	Acre-Foot Accrued	T	R	S	Historical Condition	Future Condition
Venture Development Group Inc.	66	66	32.4	14	49	32	Irrigated Corn	Urban Land, Range/Pasture/Grass, Other Ag lands
B5 Farms LLC	10.1	78	4.9	12	45	13	Irrigated Corn	Wheat/Fallow
Fornstrom Farms LLC	109.9	23	14.1	14	59	12	Irrigated Small Grains	Range/Pasture/Grass
Elizabeth Burbach	18.3	25	3.8	15	55	20	Irrigated Corn	Dryland Sunflower
Cliff Farms Inc.	50	32	12.2	14	52	3	Irrigated Corn	Range/Pasture/Grass
Dale Dedic	29.8	25	6.2	14	52	4	Irrigated Corn	Range/Pasture/Grass
Terrell Wiekhorst	43.1	18	4.6	14	52	5	Irrigated Corn/Small Grain	Dryland Small Grains
Robert & Connie Runge	75.2	7	2.7	13	51	10	Irrigated Small Grains	Range/Pasture/Grass
Marleen E. Evans Et al	237.8	57	118.9	13	50	4	Irrigated Alfalfa/Small Grains	Dryland Small Grains
Peetz Land & Cattle Co	22.9	31	4.7	14	49	35	Irrigated Corn/Small Grains	Dryland Sunflower
Paul & Frances Fornander	13.3	72	14.5	13	45	22	Irrigated Alfalfa	Dryland Small Grains
Harvey Jung	8.7	7	1.0	14	53	2	Irrigated Alfalfa	Dryland Small Grains
Robert Kurz	271.5	57	88.3	13	50	4	Irrigated Corn/Dry Edible Beans/Small Grains	Dryland Small Grains
Alan Adamson	62.6	70	63.0	15	57	31	Irrigated Pasture	Range/Pasture/Grass
Marleen E. Evans Et al	23.8	71	26.7	14	50	33	irrigated Alfalfa	Dryland Small Grains
Total	1043		398.0					

Appendix H Summary of Water Use Activities in the SPNRD

Certified Acres

	Kimball	Cheyenne	Deuel	Total
Active Overappropriated	16,423.96	18,930.43	14,642.08	49,996.47
Inactive Overappropriated	634.00	1,430.30	489.68	2,553.98
Active Fully-Appropriated	25,313.07	43,619.00	9,340.04	78,272.11
Inactive Fully-Appropriated	607.16	1,179.80	582.90	2,369.86
Total Certified	42,978.19	65,159.53	25,054.70	133,192.42
Decertified	190.80	828.80	23.40	1,043.00
Total Cert. Acres in PRRIP Area	0.00	55.80	10,521.23	10,577.03

SPNRD Transfers

18 transfers took place resulting in a net decrease of 7.5 acres being irrigated. The SPNRD consulted on 3 out-of-state transfer permits, all 3 approved transfers were offset by a reduction in allocation or reduction in the number of acres that can be irrigated.

SPNRD Well Permits

The SPNRD issued 19 well permits. 15 of these were replacement wells, 3 were not drilled and 1 new industrial well was drilled. All water pumped from the new industrial well is being offset by a reduction in an irrigation allocation.

SPNRD Approved Variances

The SPNRD approved 52 variances. 25 of those were poolings, 16 were to add additional certified irrigated acres that reflected irrigation history and 5 were industrial variances.

Water Usage Reports

	2007	2008	2009	3 Year Total
Lodgepole Creek Valley				
Weighted Avg. Inches Pumped	11.61	10.75	8.52	30.88
High	101.66	33.48	29.38	
Median	11.44	10.13	7.66	
Total Acre-Feet Pumped	36,401.56	35,191.14	26,201.06	97,793.76
Total Acres-Inches Pumped	436,818.70	422,293.68	314,412.73	1,173,525.11
Total Acres-Inches Pumped ÷ By Total Acres	10.94	10.49	7.80	29.23
Total Number of Certified Irrigated Acres				42,544
Total Number of Active Certified Irrigated Acres	39,926.1	40,261.6	40,262.1	
Tablelands				
Weighted Avg. Inches Pumped			7.16	
High			51.02	
Median			6.29	
Total Acre-Feet Pumped			44,824.58	
Total Acres-Inches Pumped			537,894.98	
Total Acres-Inches Pumped ÷ By Total Acres			6.87	
Total Number of Certified Irrigated Acres			80,697.7	
Total Number of Active Certified Irrigated Acres			78,327.8	
South Platte Valley				
Weighted Avg. Inches Pumped			13.35	
High			36.65	
Median			12.54	
Total Acre-Feet Pumped			9,530.88	
Total Acres-Inches Pumped			114,370.50	
Total Acres-Inches Pumped ÷ By Total Acres			11.82	
Total Number of Certified Irrigated Acres			9,950.6	
Total Number of Active Certified Irrigated Acres			9,678.6	

SPNRD Accretions

1,043 certified irrigated acres have been permanently retired resulting in an estimated 398.0 acre-feet of accretions benefitting the Lodgepole Creek.