

Report

The South Platte NRD has completed its ninth year of allocations for the Lodgepole Creek Management Area and its seventh year of allocations for the District's tableland regions and the South Platte Valley subarea. This report details Industrial Water Usage and Municipal Water Usage.

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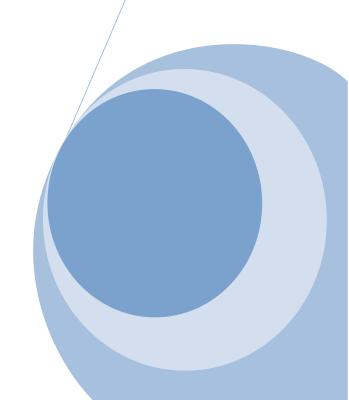


Table of Contents

Summary Report for Lodgepole Creek Management Area3
Pine Bluffs to Oliver Reservoir Subarea4
Oliver Reservoir to Buffalo Bend Subarea5
Buffalo Bend to Sidney Subarea6
Sidney to Colorado Subarea7
South Platte Valley Subarea8
Summary Report for Tablelands9
Kimball County Tablelands10
Cheyenne County Tablelands11
Deuel County Tablelands12
Districtwide Water Usage for 2012, 2013, 2014 and 201513
Active Industries with Baselines14
Active Industrial Variances15
Non-Baseline Industrial Certifications16
Municipal Baselines and 2015 Usage17
SPNRD Water Acquisitions and Water Banking Activities through 201318
2015 Precipitation Summary20
Allocation Map for SPNRD for 2013 through 201521

Lodgepole Creek Management Area

Analysis Period: 2013 - 2015

Permitted 3-Year Allocation: 48" (for 2013 - 2015)

Average Remaining Allocation: 25.39"

	2013	2014	2015	Total
Weighted Avg. Inches Pumped*	11.33	9.12	8.49	28.94
High	45.56	38.29	28.89	
Median	10.75	8.75	7.41	
Total Acre-Feet Pumped	36,157.27	28,775.39	26,705.63	91,638.29
Total Acres-Inches Pumped	433,887.25	345,304.72	320,467.54	1,099,659.51
Total Acres-Inches Pumped ÷ By Total Acres	10.84	8.70	8.11	27.65
Total Number of Inactive Certified Irrigated Acres***	2,108.3	2,310.9	2,318.2	
Total Number of Active Certified Irrigated Acres	40,063.9	39,681.5	39,524.0	
Total Number of Certified Irrigated Acres	42,172.2	41,992.3	41,842.1	

Range of Inches Used:

Scale	2013	2014	2015
0 - 4	18%	22%	31%
4.01 - 8	16%	22%	23%
8.01 - 12	25%	34%	26%
12.01 - 16	27%	16%	15%
16.01 - 20	10%	4%	4%
20+	4%	2%	1%

Scale	2013 - 2015
0 - 12	21%
12.01 - 24	19%
24.01 - 36	37%
36.01 - 48	19%
48.01 - 60	4%
60+	1%

Crop	2013 Avg. In.	2013 Percent	2014 Avg. In.	2014 Percent	2015 Avg. In.	2015 Percent
		of Acres		of Acres		of Acres
Alfalfa	12.6	10.8%	9.3	11.4%	8.2	12.0%
Beans	10.1	2.3%	9.5	6.4%	9.1	5.2%
Corn	13.3	49.4%	10.7	43.3%	11.0	40.4%
Fallow	0.0	0.9%	0.0	0.7%	0.0	0.8%
Hay	7.7	7.2%	6.9	4.7%	4.3	6.1%
Pasture	7.1	5.0%	6.7	5.8%	6.1	5.6%
Potatoes	10.6	0.2%	12.4	0.1%	9.4	0.1%
Small Grains	6.1	19.7%	4.2	17.3%	4.1	22.2%
Sugar Beets	13.5	3.8%	12.6	5.9%	12.6	4.7%
Sunflowers	4.6	0.4%	5.9	1.3%	4.3	2.5%
Unknown	0.0	0.3%	9.5	2.5%	0.0	0.0%
All Crops	10.8	100%	8.8	100%	8.1	100%

^{*} 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.

^{***}Inactive Certified Irrigated Acres are acres enrolled in Temporary Deferment or incentive programs that offer incentives to discontinue irrigation use on a temporary basis.

Subarea: Pine Bluffs to Oliver Reservoir

Analysis Period: 2013 - 2015

Permitted 3-Year Allocation: 42" (for 2013 - 2015)

Average Remaining Allocation: 21.74"

	2013	2014	2015	Total
Weighted Avg. Inches Pumped*	10.52	9.00	7.98	27.50
High	17.55	17.37	15.05	
Median	10.72	8.43	6.23	
Total Acre-Feet Pumped	3,316.03	2,907.87	2,631.89	8,855.78
Total Acres-Inches Pumped	39,792.34	34,894.43	31,582.64	106,269.40
Total Acres-Inches Pumped ÷ By Total Acres	10.26	9.00	8.14	27.40
Total Number of Inactive Certified Irrigated Acres***	0.0	0.0	0.0	
Total Number of Active Certified Irrigated Acres	3,878.4	3,878.4	3,878.4	
Total Number of Certified Irrigated Acres	3,878.4	3,878.4	3,878.4	

Range of Inches Used:

Scale	2013	2014	2015
0 - 4	16%	19%	29%
4.01 - 8	13%	26%	26%
8.01 - 12	39%	26%	29%
12.01 - 16	26%	26%	16%
16.01 - 20	6%	3%	0%
20+	0%	0%	0%

Scale	2013 - 2015
0 - 12	16%
12.01 - 24	19%
24.01 - 36	42%
36.01 - 48	23%
48.01 - 60	0%
60+	0%

Crop	2013 Avg. In.	2013 Percent	2014 Avg. In.	2014 Percent	2015 Avg. In.	2015 Percent
		of Acres		of Acres		of Acres
Alfalfa	14.1	17.7%	11.5	22.0%	8.4	23.1%
Beans	12.1	3.6%	9.5	3.6%	12.2	8.0%
Corn	11.0	22.5%	9.1	22.5%	8.8	15.7%
Fallow	0.0	0.8%	0.0	0.0%	0.0	1.0%
Hay	9.9	9.4%	8.2	5.6%	4.8	3.1%
Other Crop	0.0	0.0%	0.0	0.0%	5.3	2.1%
Pasture	7.8	28.4%	8.3	28.8%	7.5	28.1%
Potatoes	10.6	1.7%	12.4	1.0%	9.4	1.1%
Small Grains	9.3	14.4%	4.1	8.9%	6.5	13.9%
Sugar Beets	13.1	1.6%	13.0	4.8%	14.5	2.3%
Sunflowers	0.0	0.0%	7.6	1.7%	9.6	1.7%
Unknown	0.0	0.0%	0.0	1.1%	0.0	0.0%
All Crops	10.3	100%	9.0	100%	8.1	100%

^{*} 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.

^{***}Inactive Certified Irrigated Acres are acres enrolled in Temporary Deferment or incentive programs that offer incentives to discontinue irrigation use on a temporary basis.

Subarea: Oliver Reservoir to Buffalo Bend

Analysis Period: 2013 - 2015

Permitted 3-Year Allocation: 42" (for 2013 - 2015)

Average Remaining Allocation: 24.49"

	2013	2014	2015	Total
Weighted Avg. Inches Pumped*	11.26	8.49	7.56	27.38
High	23.80	19.10	25.22	
Median	11.13	9.08	6.75	
Total Acre-Feet Pumped	13,681.77	10,364.55	9,715.77	34,263.41
Total Acres-Inches Pumped	164,181.22	124,374.60	116,589.30	411,160.96
Total Acres-Inches Pumped ÷ By Total Acres	11.55	8.39	7.93	27.78
Total Number of Inactive Certified Irrigated Acres***	709.9	608.2	608.2	
Total Number of Active Certified Irrigated Acres	14,734.1	14,819.2	14,704.8	
Total Number of Certified Irrigated Acres	15,444.0	15,427.4	15,313.0	

Range of Inches Used:

Scale	2013	2014	2015
0 - 4	17%	24%	36%
4.01 - 8	16%	18%	19%
8.01 - 12	24%	40%	28%
12.01 - 16	28%	15%	12%
16.01 - 20	12%	3%	3%
20+	3%	0%	1%

Scale	2013 - 2015
0 - 12	21%
12.01 - 24	18%
24.01 - 36	42%
36.01 - 48	15%
48.01 - 60	2%
60+	1%

Crop	2013 Avg. In.	2013 Percent	2014 Avg. In.	2014 Percent	2015 Avg. In.	2015 Percent
		of Acres		of Acres		of Acres
Alfalfa	13.2	8.8%	8.0	10.9%	7.0	9.4%
Beans	9.3	3.5%	9.0	11.4%	7.5	9.3%
Corn	13.7	45.9%	10.5	35.4%	10.9	36.6%
Fallow	0.0	0.7%	0.0	0.3%	0.0	0.8%
Hay	7.3	4.3%	4.8	2.1%	2.3	5.0%
Other Crop	0.0	0.0%	0.0	0.0%	0.0	0.1%
Pasture	3.3	2.3%	1.5	4.0%	3.5	3.3%
Small Grains	6.6	24.0%	3.9	16.1%	3.9	19.6%
Sugar Beets	13.5	9.8%	12.9	13.0%	12.4	12.0%
Sunflowers	0.0	0.0%	6.0	0.9%	2.8	3.9%
Unknown	0.0	0.7%	11.0	5.9%	0.0	0.0%
All Crops	11.1	100%	8.8	100%	7.9	100%

^{*} 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.

^{***}Inactive Certified Irrigated Acres are acres enrolled in Temporary Deferment or incentive programs that offer incentives to discontinue irrigation use on a temporary basis.

Subarea: Buffalo Bend to Sidney

Analysis Period: 2013 - 2015

Permitted 3-Year Allocation: 42" (for 2013 - 2015)

Average Remaining Allocation: 29.33"

	2013	2014	2015	Total
Weighted Avg. Inches Pumped*	8.86	7.04	7.05	22.95
High	38.91	14.08	17.48	
Median	7.65	6.43	6.11	
Total Acre-Feet Pumped	6,683.35	5,088.57	4,911.94	16,683.86
Total Acres-Inches Pumped	80,200.24	61,062.83	58,943.26	200,206.33
Total Acres-Inches Pumped ÷By Total Acres	8.48	6.63	6.42	21.53
Total Number of Inactive Certified Irrigated Acres***	656.5	810.7	810.7	
Total Number of Active Certified Irrigated Acres	9,460.9	9,213.8	9,187.4	
Total Number of Certified Irrigated Acres	10,117.4	10,024.5	9,998.1	

Range of Inches Used:

Scale	2013	2014	2015
0 - 4	21%	27%	31%
4.01 - 8	31%	37%	40%
8.01 - 12	24%	30%	12%
12.01 - 16	16%	6%	15%
16.01 - 20	6%	0%	1%
20+	1%	0%	0%

Scale	2013 - 2015
0 - 12	31%
12.01 - 24	30%
24.01 - 36	27%
36.01 - 48	11%
48.01 - 60	0%
60+	0%

Crop	2013 Avg. In.	2013 Percent	2014 Avg. In.	2014 Percent	2015 Avg. In.	2015 Percent
		of Acres		of Acres		of Acres
Alfalfa	11.6	9.9%	9.6	8.2%	10.3	10.2%
Beans	0.0	0.0%	8.8	3.1%	10.4	1.4%
Corn	11.7	46.2%	8.6	40.1%	9.1	38.4%
Fallow	0.0	1.3%	0.0	0.9%	0.0	0.6%
Hay	6.1	8.6%	6.5	5.0%	2.6	4.1%
Other	0.0	0.0%	0.0	1.4%	0.0	0.7%
Pasture	8.4	2.9%	8.1	2.9%	5.4	4.9%
Small Grains	4.1	29.3%	3.7	31.9%	3.4	38.0%
Sugar Beets	0.0	0.0%	9.7	2.7%	0.0	0.0%
Sunflowers	4.6	1.8%	3.4	2.8%	3.7	1.8%
Unknown	0.0	0.0%	0.0	0.9%	0.0	0.0%
All Crops	8.6	100%	6.6	100%	6.4	100%

^{*} 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.

^{***}Inactive Certified Irrigated Acres are acres enrolled in Temporary Deferment or incentive programs that offer incentives to discontinue irrigation use on a temporary basis.

Subarea: Sidney to Colorado Analysis Period: 2013 - 2015

Permitted 3-Year Allocation: 48" (for 2013 - 2015)

Average Remaining Allocation: 25.06"

	2013	2014	2015	Total
Weighted Avg. Inches Pumped*	12.68	10.78	10.21	33.67
High	45.56	38.29	28.89	
Median	11.89	10.11	9.18	
Total Acre-Feet Pumped	12,395.11	10,414.41	9,446.03	32,255.55
Total Acres-Inches Pumped	148,741.31	124,972.86	113,352.34	387,066.51
Total Acres-Inches Pumped ÷ By Total Acres	12.37	10.62	9.74	32.73
Total Number of Inactive Certified Irrigated Acres***	707.6	892.0	899.3	
Total Number of Active Certified Irrigated Acres	12,024.6	11,770.0	11,637.8	_
Total Number of Certified Irrigated Acres	12,732.2	12,662.0	12,537.0	

Range of Inches Used:

Scale	2013	2014	2015
0 - 4	16%	17%	24%
4.01 - 8	9%	18%	16%
8.01 - 12	24%	31%	29%
12.01 - 16	31%	22%	19%
16.01 - 20	12%	8%	8%
20+	8%	5%	3%

Scale	2013 - 2015
0 - 12	16%
12.01 - 24	12%
24.01 - 36	37%
36.01 - 48	26%
48.01 - 60	8%
60+	1%

Crop	2013 Avg. In.	2013 Percent	2014 Avg. In.	2014 Percent	2015 Avg. In.	2015 Percent
		of Acres		of Acres		of Acres
Alfalfa	11.8	11.8%	9.2	11.0%	7.8	13.2%
Beans	10.5	2.2%	12.0	3.6%	13.3	2.2%
Corn	14.3	65.2%	12.3	62.8%	12.4	55.0%
Fallow	0.0	1.0%	0.0	1.4%	0.0	0.4%
Hay	9.1	8.7%	7.4	7.6%	6.0	10.2%
Pasture	7.7	2.4%	9.6	2.6%	7.0	1.5%
Small Grains	7.7	8.7%	5.9	10.3%	4.8	16.0%
Sunflowers	0.0	0.0%	14.0	0.6%	7.8	1.4%
Unknown	0.0	0.0%	0.0	0.1%	0.0	0.0%
All Crops	12.6	100%	10.7	100%	9.7	100%

^{*} 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.

^{***}Inactive Certified Irrigated Acres are acres enrolled in Temporary Deferment or incentive programs that offer incentives to discontinue irrigation use on a temporary basis.

South Platte Valley Analysis Period: 2013 - 2015

Permitted 3-Year Allocation: 54" (for 2013 - 2015)

Average Remaining Allocation: 25.1"

	2013	2014	2015	Total
Weighted Avg. Inches Pumped*	15.41	11.06	12.30	38.77
High	62.64	44.33	43.76	
Median	14.69	10.51	12.21	
Total Acre-Feet Pumped	12,035.84	8,367.45	9,844.56	30,247.85
Total Acres-Inches Pumped	144,422.35	100,409.43	118,134.75	362,966.53
Total Acres-Inches Pumped ÷ By Total Acres	15.04	10.48	12.23	37.75
Total Number of Inactive Certified Irrigated Acres***	345.0	368.5	292.9	
Total Number of Active Certified Irrigated Acres	9,604.7	9,581.3	9,656.8	
Total Number of Certified Irrigated Acres	9,949.7	9,949.8	9,949.7	

Range of Inches Used:

Scale	2013	2014	2015
0 - 4	7%	9%	20%
4.01 - 8	5%	14%	9%
8.01 - 12	15%	43%	16%
12.01 - 16	34%	22%	35%
16.01 - 20	21%	5%	9%
20+	18%	7%	11%

Scale	2013 - 2015
0 - 12	10%
12.01 - 24	6%
24.01 - 36	32%
36.01 - 48	34%
48.01 - 60	9%
60+	8%

Crop	2013 Avg. In.	2013 Percent	2014 Avg. In.	2014 Percent	2015 Avg. In.	2015 Percent
		of Acres		of Acres		of Acres
Alfalfa	17.6	5.7%	14.4	4.2%	13.8	4.4%
Beans	15.5	5.3%	6.9	8.6%	11.0	7.5%
Corn	14.8	73.4%	10.9	79.5%	13.3	74.5%
Fallow	0.0	0.6%	0.0	0.0%	0.0	1.6%
Hay	11.9	3.6%	7.7	1.3%	5.6	3.5%
Other	7.2	0.5%	0.0	0.0%	0.0	0.0%
Pasture	0.0	0.0%	9.5	1.6%	0.0	0.0%
Small Grains	9.0	3.3%	3.3	1.7%	3.6	4.6%
Sugar Beets	20.0	3.3%	10.1	3.1%	13.6	3.9%
Unknown	20.8	4.3%	0.0	0.0%	0.0	0.0%
All Crops	15.0	100%	10.5	100%	12.2	100%

^{*} 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.

^{***}Inactive Certified Irrigated Acres are acres enrolled in Temporary Deferment or incentive programs that offer incentives to discontinue irrigation use on a temporary basis.

SPNRD Tablelands

Analysis Period: 2013 - 2015

Permitted 3-Year Allocation: 42" (for 2013 - 2015)

Average Remaining Allocation: 24.73"

	2013	2014	2015	Total
Weighted Avg. Inches Pumped*	11.25	9.18	6.98	27.41
High	25.84	22.13	17.63	
Median	11.35	9.27	6.99	
Total Acre-Feet Pumped	72,504.23	58,480.60	42,147.63	173,132.46
Total Acres-Inches Pumped	870,050.74	701,767.26	505,771.61	2,077,589.61
Total Acres-Inches Pumped ?By Total Acres	11.02	8.90	6.42	26.34
Total Number of Inactive Certified Irrigated Acres***	1,867.2	1,974.2	1,974.2	
Total Number of Active Certified Irrigated Acres	78,948.2	78,841.0	78,841.0	
Total Number of Certified Irrigated Acres	80,815.3	80,815.1	80,815.2	

Range of Inches Used:

Scale	2013	2014	2015
0 - 4	5%	9%	29%
4.01 - 8	14%	29%	32%
8.01 - 12	38%	42%	30%
12.01 - 16	31%	17%	7%
16.01 - 20	11%	3%	1%
20+	1%	0%	0%

Scale	2013 - 2015
0 - 12	9%
12.01 - 24	29%
24.01 - 36	46%
36.01 - 48	15%
48.01 - 60	1%
60+	0%

Crop	2013 Avg. In.	2013 Percent	2014 Avg. In.	2014 Percent	2015 Avg. In.	2015 Percent
		of Acres		of Acres		of Acres
Alfalfa	12.7	7.3%	11.2	7.2%	6.7	7.6%
Beans	9.3	7.5%	8.1	13.8%	6.3	11.3%
Corn	12.4	47.3%	10.1	45.0%	9.6	31.9%
Fallow	0.0	0.1%	0.0	0.3%	0.0	0.6%
Hay	9.8	4.3%	7.4	3.9%	4.8	3.4%
Other	5.0	0.2%	6.0	1.1%	6.1	0.3%
Pasture	8.4	3.4%	6.8	3.4%	4.8	3.4%
Small Grains	8.7	23.6%	6.0	19.6%	3.4	33.5%
Sugar Beets	12.5	4.1%	11.0	4.8%	10.8	4.4%
Sunflowers	8.4	2.2%	6.0	0.4%	5.2	3.7%
Unknown	0.0	0.0%	0.0	0.5%	0.0	0.0%
All Crops	11.0	100%	8.8	100%	6.4	100%

^{*} 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.

^{***}Inactive Certified Irrigated Acres are acres enrolled in Temporary Deferment or incentive programs that offer incentives to discontinue irrigation use on a temporary basis.

Kimball County Tablelands Analysis Period: 2013 - 2015

Permitted 3-Year Allocation: 42" (for 2013 - 2015)

Average Remaining Allocation: 24.95"

	2013	2014	2015	Total
Weighted Avg. Inches Pumped*	11.35	8.81	6.79	26.95
High	25.84	18.65	17.63	
Median	11.18	8.94	6.96	
Total Acre-Feet Pumped	23,363.0	17,991.49	13,053.21	54,407.70
Total Acres-Inches Pumped	280,356.06	215,897.83	156,638.55	652,892.44
Total Acres-Inches Pumped ÷ By Total Acres	10.96	8.46	6.14	25.56
Total Number of Inactive Certified Irrigated Acres***	415.9	487.5	487.5	
Total Number of Active Certified Irrigated Acres	25,587.2	25,515.4	25,515.4	
Total Number of Certified Irrigated Acres	26,003.1	26,002.9	26,002.9	

Range of Inches Used:

Scale	2013	2014	2015
0 - 4	7%	16%	28%
4.01 - 8	11%	27%	38%
8.01 - 12	39%	41%	29%
12.01 - 16	30%	15%	3%
16.01 - 20	11%	2%	2%
20+	2%	0%	0%

Scale	2013 - 2015
0 - 12	11%
12.01 - 24	29%
24.01 - 36	47%
36.01 - 48	13%
48.01 - 60	1%
60+	0%

Crop	2013 Avg. In.	2013 Percent	2014 Avg. In.	2014 Percent	2015 Avg. In.	2015 Percent
		of Acres		of Acres		of Acres
Alfalfa	12.9	13.1%	10.2	13.6%	6.1	14.3%
Beans	9.8	2.7%	8.7	7.5%	5.9	6.7%
Corn	12.0	43.9%	9.0	39.3%	8.7	27.4%
Fallow	0.0	0.0%	0.0	0.5%	0.0	0.9%
Hay	7.6	3.8%	7.8	4.0%	7.3	4.2%
Other	5.0	0.5%	5.3	2.1%	0.0	0.0%
Other Crop	0.0	0.0%	0.0	0.0%	6.1	1.0%
Pasture	7.9	8.5%	5.9	7.7%	3.8	8.5%
Small Grains	9.4	20.5%	5.6	17.1%	7.5	27.4%
Sugar Beets	13.1	4.8%	10.8	6.7%	11.0	6.0%
Sunflowers	8.0	2.2%	6.5	1.1%	4.5	3.6%
All Crops	10.9	100%	8.2	100%	6.1	100%

^{*} 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.

^{***}Inactive Certified Irrigated Acres are acres enrolled in Temporary Deferment or incentive programs that offer incentives to discontinue irrigation use on a temporary basis.

Cheyenne County Tablelands

Analysis Period: 2013 - 2015

Permitted 3-Year Allocation: 42" (for 2013 - 2015)

Average Remaining Allocation: 25.6"

	2013	2014	2015	Total
Weighted Avg. Inches Pumped*	10.93	9.08	6.51	26.52
High	21.41	19.83	16.63	
Median	11.25	9.46	6.23	
Total Acre-Feet Pumped	39,794.50	32,644.13	21,975.80	94,414.43
Total Acres-Inches Pumped	477,534.03	391,729.52	263,709.58	1,123,973.13
Total Acres-Inches Pumped ÷By Total Acres	10.88	8.92	6.01	25.81
Total Number of Inactive Certified Irrigated Acres***	993.0	993.0	993.0	
Total Number of Active Certified Irrigated Acres	43,896.3	43,896.3	43,896.4	
Total Number of Certified Irrigated Acres	44,889.3	44,889.3	44,889.4	

Range of Inches Used:

Scale	2013	2014	2015
0 - 4	5%	7%	33%
4.01 - 8	16%	31%	31%
8.01 - 12	39%	45%	29%
12.01 - 16	30%	16%	6%
16.01 - 20	10%	1%	0%
20+	0%	0%	0%

Scale	2013 - 2015
0 - 12	9%
12.01 - 24	33%
24.01 - 36	46%
36.01 - 48	13%
48.01 - 60	0%
60+	0%

Crop	2013 Avg. In.	2013 Percent	2014 Avg. In.	2014 Percent	2015 Avg. In.	2015 Percent
		of Acres		of Acres		of Acres
Alfalfa	11.5	3.7%	11.3	3.2%	6.1	3.5%
Beans	9.3	10.5%	8.0	19.9%	6.3	16.2%
Corn	12.7	46.9%	10.6	45.6%	9.4	29.1%
Fallow	0.0	0.1%	0.0	0.3%	0.0	0.5%
Hay	10.6	5.2%	7.1	4.5%	3.9	2.3%
Other	0.0	0.0%	7.2	0.7%	0.0	0.0%
Pasture	12.9	0.6%	8.7	0.9%	9.0	0.6%
Small Grains	8.1	27.2%	6.2	21.0%	3.2	39.9%
Sugar Beets	11.2	3.4%	11.4	3.4%	10.6	4.0%
Sunflowers	9.0	2.3%	3.3	0.1%	5.0	4.0%
Unknown	0.0	0.0%	0.0	0.4%	0.0	0.0%
All Crops	10.8	100%	8.9	100%	6.0	100%

^{*} 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.

^{***}Inactive Certified Irrigated Acres are acres enrolled in Temporary Deferment or incentive programs that offer incentives to discontinue irrigation use on a temporary basis.

Deuel County Tablelands Analysis Period: 2013 - 2015

Permitted 3-Year Allocation: 42" (for 2013 - 2015)

Average Remaining Allocation: 19.21"

	2013	2014	2015	Total
Weighted Avg. Inches Pumped*	12.35	10.35	9.61	32.31
High	19.99	22.13	17.37	
Median	12.67	10.18	10.52	
Total Acre-Feet Pumped	9,346.72	7,845.01	7,118.62	24,310.35
Total Acres-Inches Pumped	112,160.64	94,140.13	85,423.48	291,724.25
Total Acres-Inches Pumped ÷ By Total Acres	11.85	9.98	9.06	30.89
Total Number of Inactive Certified Irrigated Acres***	458.3	493.7	493.7	
Total Number of Active Certified Irrigated Acres	9,464.6	9,429.2	9,429.2	
Total Number of Certified Irrigated Acres	9,922.9	9,922.9	9,922.9	

Range of Inches Used:

Scale	2013	2014	2015
0 - 4	0%	2%	11%
4.01 - 8	14%	32%	16%
8.01 - 12	30%	27%	41%
12.01 - 16	41%	25%	30%
16.01 - 20	16%	11%	2%
20+	0%	2%	0%

Scale	2013 - 2015
0 - 12	9%
12.01 - 24	11%
24.01 - 36	42%
36.01 - 48	33%
48.01 - 60	4%
60+	0%

Crop	2013 Avg. In.	2013 Percent	2014 Avg. In.	2014 Percent	2015 Avg. In.	2015 Percent
		of Acres		of Acres		of Acres
Alfalfa	13.8	8.9%	16.0	8.1%	10.3	8.2%
Beans	9.2	6.4%	8.9	2.7%	10.6	1.0%
Corn	12.2	58.3%	10.7	57.7%	11.3	57.1%
Hay	11.1	1.4%	7.6	0.5%	1.6	6.2%
Pasture	8.2	3.1%	10.1	3.5%	8.4	3.2%
Small Grains	10.7	15.2%	6.4	19.6%	4.5	20.4%
Sugar Beets	14.6	5.4%	10.5	6.1%	11.1	1.3%
Sunflowers	4.8	1.3%	0.0	0.0%	9.1	2.5%
Unknown	0.0	0.0%	0.0	1.9%	0.0	0.0%
All Crops	11.9	100%	10.0	100%	9.1	100%

^{*} 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.

^{***}Inactive Certified Irrigated Acres are acres enrolled in Temporary Deferment or incentive programs that offer incentives to discontinue irrigation use on a temporary basis.

Districtwide Water Usage Analysis Period: 2012 - 2015

	2012	2013	2014	2015	Total
Weighted Avg. Inches Pumped*	17.48	11.72	9.37	8.07	46.64
High	62.49	62.64	44.33	43.76	
Median	17.33	11.42	9.21	7.47	
Total Acre-Feet Pumped	178,373.80	120,615.68	95,623.45	78,420.20	473,033.13
Total Acres-Inches Pumped	2,140,485.65	1,447,388.2	1,147,481.41	941,042.37	5,676,397.63
Total Acres-Inches Pumped ÷ By Total Acres	16.66	11.26	8.96	7.36	44.24
Total Number of Inactive Certified Irrigated Acres***	4,414.0	4320.4	4,653.5	4,585.2	
Total Number of Active Certified Irrigated Acres	128,478.5	128,617.2	128,103.7	127,906.3	
Total Number of Certified Irrigated Acres	132,892.4	132,937.6	132,757.2	132,491.5	

Range of Inches Used:

Scale	2012	2013	2014	2015
0 - 4	8%	11%	15%	29%
4.01 - 8	5%	14%	25%	26%
8.01 - 12	11%	30%	38%	27%
12.01 - 16	18%	29%	17%	13%
16.01 - 20	25%	11%	3%	3%
20+	33%	4%	1%	1%

Crop	2012 Avg.	2012	2013 Avg.	2013	2014 Avg.	2014	2015 Avg.	2015
	ln.	Percent	In.	Percent	In.	Percent	ln.	Percent
		of Acres		of Acres		of Acres		of Acres
Alfalfa	20.8	8.3%	12.8	8.5%	10.8	8.2%	7.6	8.7%
Beans	15.0	9.1%	9.8	5.7%	8.3	11.2%	7.1	9.1%
Corn	18.3	52.9%	13.0	49.7%	10.2	47.4%	10.6	37.7%
Fallow	0.0	0.5%	0.0	0.5%	0.0	0.5%	0.0	0.7%
Hay	15.0	5.2%	9.1	5.1%	7.3	4.0%	4.6	4.2%
Other	1.8	0.4%	5.6	0.1%	5.2	0.8%	5.7	0.3%
Pasture	11.1	4.4%	7.7	3.7%	7.6	4.0%	5.4	3.8%
Potatoes	23.9	0.1%	10.6	0.1%	12.4	0.0%	9.4	0.0%
Small Grains	10.4	12.6%	7.9	20.9%	5.4	17.5%	3.5	27.9%
Sugar Beets	21.4	5.1%	13.2	3.9%	11.5	5.1%	11.6	4.4%
Sunflowers	10.9	0.9%	8.0	1.5%	6.0	0.7%	5.0	3.0%
Unknown	1.7	0.7%	16.5	0.4%	12.8	0.6%	0.0	0.0%
All Crops	16.6	100%	11.2	100%	9.0	100%	7.4	100%

^{*} 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.

^{***}Inactive Certified Irrigated Acres are acres enrolled in Temporary Deferment or incentive programs that offer incentives to discontinue irrigation use on a temporary basis.

2015 SPNRD Active Industries with Baselines

Well Dea #	Legal				2015
Well Reg. #	Legal	Use	Baseline	Baseli	2015
			Gallons	ne	Gallons*
0.457045	6 F T40N DE014		200 245 624	Year	127 720 110
G-157945	Sec. 5 T13N R50W	Livestock	299,315,624	2005-	137,739,449
G-157946	Sec. 5 T13N R50W			2006	
G-031351	Sec. 5 T13N R50W				
G-091299	Sec. 30 T16N R55W	Sand &	22,154,542	2001-	0
		gravel		2002	
		mine			
G-013034	Sec. 19 T15N R55W	Oil fields	88,605	2004-	0
				2005	
G-051806	Sec. 32 T14N R55W	Oil fields,	2,203,750	2003-	3,565,358
G-058832**	Sec. 6 T13N R55W	roads,		2004	
		wind			
		turbines			
G-117269	Sec. 5 T14N R52W	Water well	655,763	2002-	168,357
		drilling		2003	
G-059572	Sec. 15 T13N R51W	Oil fields	2,333,334	2005-	12,700
G-119599	Sec. 11 T14N R51W			2006	
G-041367***	Sec. 23 T15N R56W	Sand &	5,650,134	2005-	4,907,594
		gravel	-,	2006	1,001,001
		mine			
G-058331	Sec. 34 T15N R55W	Golf	189,569,845	2001-	63,937,520
G-064838		Course		2002	
A-003167A	Sec. 29 T15N R55W	Oil fields	6,348,605	2013	1,112,300
G-059901	Sec. 3 T13N R49W	Sand &	41,925,776	2014	2,368,668
		gravel			
		mine			
G-116176****	Sec. 32 T14N R49W	Ponds &	17,600,000	2014	887,100
		landscape/			
		turf			
G-131190	Sec. 14 T13N R45W	Livestock	26,952,200	2013-	22,599,900
G-083186				2014	
G-123698	Sec. 4 T12N R45W	Livestock	3,940,100	2012-	2,608,400
				2013	
G-077801	Sec. 29 T14N R55W	Hazardous	35,227,000	2009-	36,691,000
		Waste		2010	
		Incinerator			
G-003169	Sec. 22 T13N R45W	Соор	884,822	2012-	484,650
			<u> </u>	2013	, -
G-002327	Sec. 2 T12N R42W	Aerial	581,102	2010-	323,900
		Spraying		2011	,
G-164175	Sec. 18 T12N R43W	Golf	9,437,798	2014	5,783,048
		Course	, , , , , , , ,		,,-
Included from the Condu	L strial water year of August 1 20		2015	1	l

^{* 2015} Gallons are calculated from the industrial water year of August 1, 2014 through July 31, 2015.

^{**} These wells are in the fully appropriated area of the District and are over their five year baseline; the SPNRD has worked through the Platte Basin Coalition to secure an offset by retiring irrigated acres.

^{***} Well G-041367 received a variance to establish a partial baseline because pumping did not occur during all five baseline years. If the baseline amount of 5,650,134 gallons is exceeded, all offsets will be automatically deducted from certified irrigated tract #15N56W230005. See 2/5 variance request in the 2010 report.

^{****} The baseline for this well increased this year with approved transfer TR-IND-14-Cabela's-SO-2015.

SPNRD Active Industrial Variances 2015

Well Reg. #	Legal	Use	Baseline Gallons	2015 Gallons
G-054015	Sec. 6 T15N R57W	Oil Fields	TBD	3,584
G-101853	Sec. 23 T16N R50W	Соор	TBD	968,600

SPNRD Non-Baseline Industrial Certifications 2015

G-022051 Sec. 2 G-014546 Sec. 3 G-022281 Sec. 1 G-134511 Sec. 2 A-002770 Sec. 2 G-022347 Sec. 2 G-022048 Sec. 3 G-023351 Sec. 2	12 T16N R57W 24 T13N R56W 34 T14N R53W 11 T14N R53W 22 T17N R52W 28 T15N R54W 23 T13N R57W 34 T17N R51W 27 T14N R50W 11 T14N R59W	Oil Fields	To Be Determined (TBD) TBD
G-022051 Sec. 2 G-014546 Sec. 3 G-022281 Sec. 1 G-134511 Sec. 2 A-002770 Sec. 2 G-022347 Sec. 2 G-022048 Sec. 3 G-023351 Sec. 2	24 T13N R56W 34 T14N R53W 21 T14N R53W 22 T17N R52W 28 T15N R54W 23 T13N R57W 24 T17N R51W 27 T14N R50W 21 T14N R59W	Oil Fields	TBD
G-014546 Sec. 3 G-022281 Sec. 1 G-134511 Sec. 2 A-002770 Sec. 2 G-022347 Sec. 2 G-022048 Sec. 3 G-023351 Sec. 2	84 T14N R53W 11 T14N R53W 22 T17N R52W 28 T15N R54W 23 T13N R57W 34 T17N R51W 27 T14N R50W 11 T14N R59W	Oil Fields	TBD
G-022281 Sec. 1 G-134511 Sec. 2 A-002770 Sec. 2 G-022347 Sec. 2 G-022048 Sec. 3 G-023351 Sec. 2	11 T14N R53W 22 T17N R52W 28 T15N R54W 23 T13N R57W 34 T17N R51W 27 T14N R50W 11 T14N R59W	Oil Fields	TBD TBD TBD TBD TBD TBD TBD irrigation allocation on
G-134511 Sec. 2 A-002770 Sec. 2 G-022347 Sec. 2 G-022048 Sec. 3 G-023351 Sec. 2	22 T17N R52W 28 T15N R54W 23 T13N R57W 34 T17N R51W 27 T14N R50W 11 T14N R59W	Oil Fields Oil Fields Oil Fields Oil Fields Oil Fields Oil Fields	TBD TBD TBD TBD TBD irrigation allocation on
A-002770 Sec. 2 G-022347 Sec. 2 G-022048 Sec. 3 G-023351 Sec. 2	28 T15N R54W 23 T13N R57W 84 T17N R51W 27 T14N R50W 11 T14N R59W	Oil Fields Oil Fields Oil Fields Oil Fields Oil Fields	TBD TBD TBD irrigation allocation on
G-022347 Sec. 2 G-022048 Sec. 3 G-023351 Sec. 2	23 T13N R57W 84 T17N R51W 27 T14N R50W 11 T14N R59W	Oil Fields Oil Fields Oil Fields Oil Fields	TBD TBD trigation allocation on
G-022048 Sec. 3 G-023351 Sec. 2	84 T17N R51W 27 T14N R50W 11 T14N R59W	Oil Fields Oil Fields Oil Fields	TBD TBD irrigation allocation on
G-023351 Sec. 2	27 T14N R50W L1 T14N R59W L9 T14N R55W	Oil Fields Oil Fields	TBD irrigation allocation on
	11 T14N R59W 19 T14N R55W	Oil Fields	irrigation allocation on
A-004712 Sec. 1	L9 T14N R55W		_
		Oil Fields	
G-022050 Sec. 1	L9 T14N R55W		TBD
G-022049 Sec. 1			
G-074242 Sec. 1	L T12N R44W	Sand & Gravel	irrigation allocation on
		Mine	tract 12N43W130003
A-004408 Sec. 2	28 T15N R55W	Sand & Gravel	irrigation allocation on
		Mine	tract 15N55W280004
G-054269 Sec. 1	L2 T13N R56W	TBD	irrigation allocation on
C 010431	14 T4 4NI DEE\A4	O:l F:alda	tract 13N56W120001
	21 T14N R55W 21 T14N R55W	Oil Fields	TBD
	21 T14N R55 W		
G-154988 Sec. 6	5 T12N R43W	Sand & Gravel	irrigation allocation on
G-154989 Sec. 6	5 T12N R43W	Mine	tract 12N43W210001
G-154990 Sec. 6	5 T12N R43W		
G-021178 Sec. 2	23 T17N R52W	Oil Fields	TBD
G-039899 Sec. 5	5 T15N R52W	Oil Fields	TBD
G-021179 Sec. 2	23 T17N R52W	Oil Fields	TBD
G-021621 Sec. 2	23 T17N R52W		
G-146042 Sec. 1	13 T15N R56W	Sand & Gravel Mine	irrigation allocation on tract 15N56W230005
G-030434 Sec. 2	2 T12N R55W	Oil Fields	TBD
G-026066 Sec. 2	2 T12N R55W		
G-041796 Sec. 1	13 T14N R51W	Sand & Gravel Mine	Irrigation allocation on tract 14N51W130001
G-014002 Sec. 7	7 T13N R47W	Sand & Gravel Mine	Irrigation allocation on tracts 13N46W080001 and 13N47W070001
G-003090 Sec. 5	5 T14N R52W	Interstate Construction	Irrigation allocation on tract 14N52W050002
G-094357B Sec. 1	L5 T12N R49W	Wind turbines & Roads	Irrigation allocation on tract 12N49W150001

SPNRD Municipal Baselines and 2015 Usage

Municipality	DNR Transfer Permit Gallons	Baseline Gallons	Baseline Year	Baseline Per Capita Use* gallons/ person/ day	2015 Gallons**	2015 Per Capita Use*** gallons/ person/day
Big Springs	164,574,899	154,986,748	2002-2003	1,016	49,350,000	338
Bushnell	N/A	13,092,375	2001-2002	221	8,130,945	180
Chappell	N/A	116,968,411	2001-2002	326	95,136,400	281
Dalton	N/A	70,382,300	2001-2002	580	21,036,200	183
Dix	N/A	72,023,100	2001-2002	739	20,057,700	216
Gurley	N/A	46,085,050	2001-2002	554	21,944,827	281
Kimball	N/A	243,050,000	2001-2002	260	102,952,000	113
Lodgepole	N/A	53,443,494,	2001-2002	421	27,660,000	238
Potter	N/A	135,421,817	2001-2002	951	60,143,263	489
Sidney	1,300,000,000	633,042,003	2001-2002	276	361,360,000	147

^{*} Based on 2000 census population numbers

** Based on August 1, 2014 through July 31, 2015 water year

^{***} Based on the 2010 census population numbers

SPNRD Water Acquisitions and Water Banking Activities Through 2015

	31 TUNE 1	_		Taria tra	ici baii		IVICIES IIII	5 ti.B. 1 = 5 = 5		
	Decertified	Stream Depletion	Acre Feet				Date			
Landowner	Acres	(%)	Accrued	Township	Range	Section	Retired	County	Subarea	Appropriation
Terrell Wiekhorst	43.1	18	4.6	14	52	5	9/6/2007	Cheyenne	ORBB	OA
Cliff Farms Inc.	50	32	12.2	14	52	3	9/17/2007	Cheyenne	ORBB	OA
Robert & Connie Runge	75.2	7	2.7	13	51	10	9/27/2007	Cheyenne	SIDCO	OA
Marleen E. Evans Et al	237.8	57	118.9	13	50	4	10/22/2007	Cheyenne	SIDCO	OA
Marleen E. Evans Et al	23.8	71	26.7	14	50	33	10/22/2007	Cheyenne	BBSID	OA
Fornstrom Farms LLC	109.9	23	14.1	14	59	12	11/1/2007	Kimball	PBOR	OA
Dale Dedic	29.8	25	6.2	14	52	4	12/4/2007	Cheyenne	ORBB	OA
Elizabeth Burback	18.3	25	3.8	15	55	20	12/5/2007	Kimball	ORBB	OA
Peetz Land & Cattle Co	22.9	31	4.7	14	49	35	3/14/2008	Cheyenne	SIDCO	OA
B5 Farms LLC	10.1	78	4.9	12	45	13	4/9/2008	Deuel	SIDCO	OA
Paul & Frances Fornander	13.3	72	14.5	13	45	22	7/1/2008	Deuel	SIDCO	OA
Harvey Jung	8.7	7	1	14	53	2	7/10/2008	Cheyenne	ORBB	OA
Robert Kurz	271.5	57	88.3	13	50	4	10/23/2008	Cheyenne	SIDCO	OA
Venture Development Group Inc.	66	66	32.4*	14	49	32	7/14/2009	Cheyenne	BBSID	OA
Alan Adamson	62.6	70	63	15	57	31	9/22/2009	Kimball	PBOR	OA
Sharon A, James C. & Donna Johnson	5.6	10	0.44	15	53	34	7/1/2010	Kimball	ORBB	OA
Raymond Kuehn	83.2	73.5	49.2	14	51	12	7/1/2010	Cheyenne	BBSID	OA
Raymond Kuehn	42.3	68	23.1	14	51	13	7/1/2010	Cheyenne	BBSID	OA
Scott & Susan Lockwood	43.9	92.5	32	15	57	36	9/1/2010	Kimball	PBOR	OA
Don & Janelle Frerichs	59.6	75	30.8	14	48	27	9/22/2011	Cheyenne	SIDCO	Over
Barton Terman	99	10	14.5	14	52	34	12/28/2011	Cheyenne	BBSID	Over
The Ranch at Sidney LLC	35.1	74	28.5	14	49	33	4/8/2014	Cheyenne	SIDCO	OA
City of Chappell	37.5	45.7	36.6	13	45	23	1/1/2015	Deuel	SIDCO	OA

City of Sidney	87.4	53	92.6	14	49	33	5/12/2015	Cheyenne	SIDCO	OA
Castronics	114.4	28.4	8.7	15	55	27	12/9/2015	Kimball	ORBB	OA

Total Acre Feet Accrued = 714

Total Number of Acres Decertified = 1,651

Average Stream Depletion = 47%

Average \$/AF Accrued (Federal dollars plus SPNRD dollars): \$2,578

Average \$/Acre Retired (Federal dollars plus SPNRD dollars): \$511

2015 Precipitation Summary (March 1 through October 31)

Monthly Averages for 2015

	March	April	May	June	July	August	September	October
Kimball	.19	4.26	7.66	2.36	2.63	2.84	.40	1.98
Cheyenne	.16	4.18	8.23	2.85	2.59	1.58	.39	1.54
Deuel	.24	2.96	5.53	2.59	1.95	1.79	1.19	1.28

Comparison of 2011, 2012, 2013, and 2014 to Historical Averages

	2012 Precip	2013 Precip	2014 Precip	2015 Precip	
County	Ave.	Ave.	Ave.	Ave.	Historical Ave.
Kimball	6.81	13.98	19.36	25.09	16.22
Cheyenne	7.81	18.83	18.09	24.71	17.68
Deuel	6.23	14.55	18.18	18.18	17.79

Allocation Subareas and Allocations for 2013 through 2015

