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**Table 1**  
**Precipitation (Inches) 1991-2011**  
**Fargo, ND**

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
<b>JAN</b>	N/A	0.72	0.99	1.21	0.82	1.96	1.79	0.81	1.15	N/A	0.2
<b>FEB</b>	N/A	0.44	0.17	0.97	0.75	1	0.59	1.7	0.2	1.19	0.74
<b>MAR</b>	N/A	1.25	0.97	0.8	2.67	1.52	1.89	0.98	1.83	1.81	0.26
<b>APR</b>	N/A	0.72	1.12	2.98	0.81	0.32	3.4	0.61	1.18	1.55	2.86
<b>MAY</b>	N/A	2.79	3.21	1.41	2.58	3.64	2.96	7.18	4.04	2.77	2.99
<b>JUN</b>	5.67	6.55	6.05	3.08	1.9	1.31	5.02	6.96	3.63	12.55	2.46
<b>JUL</b>	3.44	4.22	10.07	6.9	5.31	1.89	2.58	2.76	2.74	N/A	3.46
<b>AUG</b>	2.31	2.74	1.06	3.28	3.37	1.87	2.14	1.64	4.8	3.83	2.21
<b>SEPT</b>	2.16	2.45	0.64	1.87	2.71	3.32	3.2	2.45	6.51	4.32	1.61
<b>OCT</b>	0.78	0.22	0.16	3.8	2.68	2.76	4.09	4.79	1.47	2.46	N/A
<b>NOV</b>	0.68	1.69	1.88	1.31	1.18	2.32	0.84	1.76	N/A	4.45	N/A
<b>DEC</b>	0.45	0.76	0.86	0.27	1.02	1.27	0.44	0.31	0.45	0.69	0.22
<b>ANNUAL</b>	N/A	24.55	27.18	27.88	25.8	23.18	28.94	31.95	N/A	N/A	N/A

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
<b>JAN</b>	N/A	N/A	0.73	N/A	N/A	N/A	0.09	0.55	1.57	0.9	0.69
<b>FEB</b>	N/A	N/A	0.73	0.64	0.46	N/A	0.67	1.23	0.86	0.14	1.15
<b>MAR</b>	N/A	0.63	1.6	N/A	N/A	N/A	N/A	4.62	1.41	2.25	0.97
<b>APR</b>	N/A	1.85	0.18	0.95	1.48	3.24	2.34	0.81	1.8	2.18	1.48
<b>MAY</b>	3.09	N/A	N/A	N/A	2.24	5.22	2.52	2.12	2.87	4.07	3.45
<b>JUN</b>	N/A	6.12	1.07	N/A	1.16	5.66	6.84	3.36	3	4.49	
<b>JUL</b>	N/A	N/A	4.25	N/A	N/A	1.16	2.11	0.79	4.8	4.51	
<b>AUG</b>	2.29	N/A	N/A	N/A	N/A	2.72	2.83	2.13	2.79	3.15	
<b>SEPT</b>	N/A	N/A	N/A	N/A	N/A	N/A	5.4	2.06	6.68	0.28	
<b>OCT</b>	1.55	N/A	3.69	N/A	1.09	N/A	4.94	5.65	2.7	1.09	
<b>NOV</b>	N/A	N/A	N/A	N/A	N/A	0.12	N/A	0.41	0.93	0.28	
<b>DEC</b>	N/A	N/A	N/A	N/A	0.92	N/A	1.8	1.85	2.04	0.4	
<b>ANNUAL</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25.58	31.45	23.7	



**Table 2**  
**Calendar Year Stream Flow Statistics for Buffalo near Dilworth**  
**USGS STATION 05062000**

Water Year	Annual mean stream flow, cfs
1932	28.5
1933	29.8
1934	25.6
1935	36.2
1936	66.1
1937	30.8
1938	46.9
1939	48.8
1940	29.9
1941	50.7
1942	75.6
1943	205.2
1944	211.5
1945	192.1
1946	112.4
1947	171.4
1948	83.0
1949	51.6
1950	247.5
1951	110.9
1952	206.9
1953	185.3
1954	91.2
1955	138.1
1956	130.2
1957	132.6
1958	137.4

Water Year	Annual mean stream flow, cfs
1959	135.9
1960	146.0
1961	63.9
1962	382.6
1963	112.6
1964	131.4
1965	187.8
1966	259.8
1967	165.0
1968	59.1
1969	206.4
1970	99.3
1971	70.0
1972	222.7
1973	52.4
1974	167.3
1975	440.5
1976	66.5
1977	26.7
1978	248.2
1979	177.0
1980	71.7
1981	52.3
1982	124.5
1983	150.8
1984	183.3
1985	207.7

Water Year	Annual mean stream flow, cfs
1986	337.4
1987	129.3
1988	70.4
1989	151.2
1990	66.0
1991	76.1
1992	77.7
1993	328.5
1994	182.1
1995	181.9
1996	227.2
1997	429.8
1998	477.5
1999	331.0
2000	312.6
2001	435.9
2002	211.1
2003	148.2
2004	198.9
2005	374.4
2006	338.1
2007	271.2
2008	246.3
2009	727.3
2010	510.6
2011	635.9



**Table 3**  
**Calendar Year Stream Flow Statistics for Buffalo near Sabin**  
**USGS STATION 09020106**

Water Year	Annual mean stream flow, cfs	Water Year	Annual mean stream flow, cfs
1946	29.1	1979	177.0
1947	53.8	1980	71.7
1948	30.4	1981	52.3
1949	12.6	1982	124.5
1950	94.0	1983	150.8
1951	42.1	1984	183.3
1952	70.7	1985	207.7
1953	84.9	1986	337.4
1954	26.0	1987	129.3
1955	138.1	1988	70.4
1956	130.2	1989	151.2
1957	132.6	1990	66.0
1958	137.4	1991	76.1
1959	192.1	1992	77.7
1959	135.9	1993	328.5
1960	146.0	1994	182.1
1961	63.9	1995	181.9
1962	382.6	1996	227.2
1963	112.6	1997	429.8
1964	131.4	1998	477.5
1965	187.8	1999	331.0
1966	259.8	2000	312.6
1967	165.0	2001	435.9
1968	59.1	2002	211.1
1969	206.4	2003	148.2
1970	99.3	2004	198.9
1971	70.0	2005	374.4
1972	222.7	2006	338.1
1973	52.4	2007	271.2
1974	167.3	2008	246.3
1975	440.5	2009	727.3
1976	66.5	2010	510.6
1977	26.7	2011	635.9
1978	248.2		





## North Buffalo DWSMA

Parcel ID	Acreage	Domestic Wells	Commercial Wells	Irrigation Wells	Municipal Wells	Monitoring, Observation, Scientific Investigation Wells	Test Wells	Sealed Wells	Class 5 Injection Wells	Name	Street	City	State	ZIP
20.030.4001	0.8	0	0	0	0	0	0	0	0	JEGTVIG VIRGIL R	3179 70 ST N	GLYNDON	MN	56547
20.030.9006	0.2	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.030.4180	14.3	2	0	0	0	0	0	0	0	KOESTER KENNETH J	3117 70 ST N	GLYNDON	MN	56547
20.030.4002	2.7	2	0	0	0	2	0	0	0	KOESTER KORY	3221 70 ST N	GLYNDON	MN	56547
20.029.3500	76.5	0	0	0	0	0	0	0	0	LINDA A KOESTER RLT			MN	
20.030.9007	0.7	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.029.9002	1.6	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.030.9004	0.6	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.030.1701	4.1	0	0	0	0	0	0	1	0	THOMPSON SCOTT A	3411 70 ST N	GLYNDON	MN	56547
20.030.1503	3.0	0	0	0	0	0	0	0	0	BUCHFINK JAY & TRUDY			MN	
20.030.9001	0.5	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.030.1501	3.1	1	0	0	0	0	0	0	0	BUCHFINK JAY & TRUDY	3637 70 ST N	GLYNDON	MN	56547
20.030.9002	0.2	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.030.1502	3.0	1	0	0	0	0	0	0	0	LYNDE CURTIS & KRISTINE	3639 70 ST N	GLYNDON	MN	56547
20.075.9001	0.3	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.075.0010	2.6	0	0	0	0	0	0	0	0	GROVE ALLEN D & SUSAN M	3709 70 ST N	GLYNDON	MN	56547
20.029.2600	74.0	0	0	0	0	2	0	0	0	LINDA A KOESTER RLT			MN	
20.029.9001	3.6	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.030.1102	2.0	0	0	0	0	2	0	0	0	MOLAND TOWNSHIP C/O SUE WINTER	3739 70 ST N	GLYNDON	MN	56547
20.030.1101	2.0	0	0	0	0	0	0	1	0	LYNDE STEVEN A			MN	
20.030.1500	62.2	0	0	0	0	3	0	0	0	LYNDE PATRICIA			MN	
20.030.1700	221.3	1	0	0	0	1	0	1	0	WUSSOW LAWRENCE & WILLIAM & LE: MARILYN WOLLITZ			MN	
20.019.3401	5.0	1	0	0	0	0	0	0	0	FISCHER TIMOTHY S	6464 43 AVE N	GLYNDON	MN	56547
20.019.9003	2.5	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.020.3000	144.5	0	0	0	0	1	0	2	0	LINDA A KOESTER RLT			MN	
20.020.9003	3.5	0	0	0	0	1	0	0	0	CLAY COUNTY			MN	
20.020.9004	0.1	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	

Table 4  
Property Owners and Well Locations within the Buffalo Aquifer DWSMA

Parcel ID	Acreage	Domestic Wells	Commercial Wells	Irrigation Wells	Municipal Wells	Monitoring, Observation, Scientific Investigation Wells	Test Wells	Sealed Wells	Class 5 Injection Wells	Name	Street	City	State	ZIP
20.020.9005	0.0	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.019.9004	1.4	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.019.4001	9.6	1	0	0	0	0	0	1	0	STRANDLIEN DALE O & TAMERA J	4657 70 ST N	GLYNDON	MN	56547
20.019.4000	146.8	1	0	0	0	1	0	2	0	ZIMMERMAN SHARRY N			MN	
20.019.3800	42.9	0	0	0	0	0	0	0	0	KOESTER KENNETH J & LINDA A			MN	
20.020.3201	12.8	1	0	0	0	0	0	0	0	OFFUTT ROBERT B & SUSAN KAY	4854 70 ST N	GLYNDON	MN	56547
20.020.9002	2.0	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.020.2700	30.7	0	0	0	0	0	0	1	0	OFFUTT ROBERT B			MN	
20.020.3001	38.8	1	0	0	0	0	0	0	0	SABO CHERIE	4780 70 ST N	GLYNDON	MN	56547
20.019.9002	0.9	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.019.0101	9.1	0	0	0	0	0	0	0	0	DUNCAN TIMOTHY	5003 70 ST N	GLYNDON	MN	56547
20.020.9001	2.0	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.020.2200	37.5	0	0	0	0	0	0	0	0	OFFUTT ROBERT B			MN	
20.019.0102	2.0	0	0	0	0	0	1	0	0	MOORHEAD CITY OF			MN	
20.019.0100	294.0	1	0	0	1	4	3	1	0	BORGEN WILLIAM J	6749 57 AVE N	GLYNDON	MN	56547
20.018.9005	3.0	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.018.9006	0.3	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.018.4801	1.5	1	0	0	0	0	0	0	0	SAUNDERS THOMAS J	6099 70 ST N	GLYNDON	MN	56547
20.017.3601	30.4	1	0	0	0	0	0	1	0	GROVER RALPH G & BARBARA A			MN	
20.018.4800	70.4	0	0	0	0	1	0	0	0	FOBES JOANNE A			MN	
20.018.4600	128.4	0	0	0	1	1	2	1	0	RALPH G GROVER LTD PTSHP	6748 57 AVE N	GLYNDON	MN	56547
20.030.9003	0.6	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.019.9001	1.8	0	0	0	0	0	0	0	0	CLAY COUNTY			MN	
20.075.9999	0.1	0	0	0	0	0	0	0	0					
<b>Total</b>		<b>15</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>19</b>	<b>6</b>	<b>12</b>	<b>0</b>					

## South Buffalo DWSMA

Parcel ID	Acerage	Monitoring, Observation, Scientific								Class 5 Injection Wells	Name	Street	City	State	ZIP
		Domestic Wells	Commercial Wells	Irrigation Wells	Municipal Wells	Investigation Wells	Test Wells	Sealed Wells							
10.016.0200	262.4	0	0	0	0	0	0	1	0	GLYNDON FARMS CO			MN		
10.009.3700	66.7	0	0	0	0	0	1	0	0	RDO OFFUTT CO			MN		
10.009.3000	69.7	0	0	0	0	0	1	0	0	RDO OFFUTT CO			MN		
10.009.2000	57.5	0	0	0	0	0	0	0	0	RDO OFFUTT CO			MN		
10.009.2200	1.1	0	0	0	0	0	0	0	0	BURLINGTON NORTHERN RAILROAD & RR CO PROPERTY TAX DEPT			MN		
10.009.2001	5.1	1	1	0	0	0	2	0	0	GILBERTSON ROY A & TERESA J	158 80 ST S	GLYNDON	MN	56547	
10.009.2201	5.7	0	0	0	0	0	0	0	0	JACOBSEN DANIEL & KAREN			MN		
10.005.4000	83.7	2	0	0	0	0	0	0	0	SCHROEDER STEPHEN E & LUCIA	7768 10 HWY	GLYNDON	MN	56547	
10.008.0150	65.7	0	0	0	0	1	0	0	0	SCHROEDER STEPHEN & LUCIA	166 70 ST S	GLYNDON	MN	56547	
10.005.4301	1.6	0	0	0	3	0	2	1	0	MOORHEAD CITY OF	7506 10 HWY	GLYNDON	MN	56547	
10.005.3401	0.8	0	0	0	0	0	0	0	0	MOLSTRE SHELLEY	7298 10 HWY	DILWORTH	MN	56529	
10.018.0400	284.9	0	0	0	0	0	3	0	0	FEDER PROPERTIES LLP			MN		
10.008.0400	449.0	0	0	1	0	3	4	0	0	FORD LUCILLE L & C/O PATRICIA FORD HALL G PTSHP	270 70 ST S	GLYNDON	MN	56547	
10.005.3000	117.7	1	0	0	0	1	0	1	0	SCHROEDER STEPHEN & LUCIA	182 70TH ST N	GLYNDON	MN	56547	
10.017.0000	584.5	1	0	0	0	1	1	0	0	GLYNDON FARMS CO	7504 28 AVE S	GLYNDON	MN	56547	
10.009.9999	2.7	0	0	0	0	0	0	0	0						
10.008.9999	20.0	0	0	0	0	0	0	0	0						
10.999.9999	17.0	0	0	0	0	2	0	0	0						
10.017.9999	17.7	0	0	0	0	2	0	0	0						
10.999.9999	363.2	2	0	0	0	8	0	10	0						
<b>Total</b>		<b>7</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>18</b>	<b>14</b>	<b>13</b>	<b>0</b>						

