

STATE OF MINNESOTA
DEPARTMENT OF NATURAL RESOURCES
COMMISSIONER'S ORDER DESIGNATING
AREAS OF ADEQUATE GROUNDWATER
AVAILABILITY DATA
NUMBER 1978-1
SUPERSEDING NUMBER 1977-1

In accordance with the provisions of Laws of Minnesota 1977, Chapter 446, Section 18, Subdivision 1, the Commissioner of Natural Resources hereby designates the following Townships as A areas. Applications for permits to appropriate groundwater for purposes of agricultural irrigation in the identified areas will be processed as Class A applications. All other areas of the State are B areas, in which groundwater irrigation applications will be processed as Class B.

This order supersedes Order No. 1977-1.

STATE OF MINNESOTA
DEPARTMENT OF STATE
FILED
APR 6 - 1978
James Anderson
Secretary of State

31392

<u>COUNTY</u>	<u>TOWNSHIP</u>	<u>TWP. -RGE.</u>	<u>SECTIONS</u>	<u>STUDY</u>
ANOKA (surface aquifer)		T30-R23	Sec. 5,6,7,8,17,18,19	U.S. Geological Survey Open File Report-Anoka Sand Plains (DOW Bulletin 27)
		T30-R24	Sec. 1,2,3,10,11,12 13,14,15,22-27, 34	
		T31-R22	Sec. 2-11,15-22,28-33	
		T31-R23	Sec. All Sections	
		T31-R24	Sec. 1-17, 21-27,35,36	
		T31-R25	Sec. 1,2,12	
	Columbus	T32-R22	Sec. All Sections	
	Ham Lake	T32-R23	Sec. All Sections	
	Grow	T32-R24	Sec. All Sections	
	Ramsey	T32-R25	Sec. 1,2,5,6-30,32-36	
	Linwood	T33-R22	Sec. All Sections	
		T33-R23	Sec. All Sections	
	Oak Grove	T33-R24	Sec. All Sections	
	Burns	T33-R25	Sec. 1,12,13,24,25,36	
	Oxford	T34-R22	Sec. 25-36	
	Athens	T34-R23	Sec. 25-36	
	Saint Francis	T34-R24	Sec. 25-36	
Stanford	T34-R25	Sec. 25,36		
BECKER (surface aquifer)	Runeberg	T138-R36	Sec. 1	Park Rapids Study Area (Data Collection complete, U.S. Geological Survey will be publishing in near future.)
	Green Valley	T139-R36	Sec. 1-5,7-17,22-26, 35,36	
	Osage	T140-R36	Sec. 2-29,32-36	
	Carsonville	T140-R37	Sec. 1-14,18,24	
	Shell Lake	T140-R38	Sec. 1,2,3,10,11,12	
	Two Inlets	T141-R36	Sec. 29,30,31,32	
	Pine Point	T141-R37	Sec. 5-9,14-23,25-36	
	Round Lake	T141-R38	Sec. 1,12,13,24,25,26, 35,36	
Round Lake	T142-R37	Sec. 31		
BENTON (surface aquifer)	Glendorado	T36-R28	Sec. 20,29,31,32	U.S. Geological Survey Open File Report-Anoka Sand Plains (DOW Bulletin 27)
	St. George	T36-R29	Sec. 28-36	
	Minden	T36-R30	Sec. 23,25-36	
	Sauk Rapids	T36-R31	Sec. 26,35,36	
BIG STONE (surface aquifer)	Akron	T121-R44	Sec. 26-36	U.S. Geological Survey Water Supply Paper 2039-B, Appleton Area
	Odessa	T121-R45	Sec. 25	
CASS (surface aquifer)	Becker	T134-R32	Sec. 3-10,15-22,27-36	Park Rapids Study Area (Data Collection complete, U.S. Geological Survey will be publishing in near future)
	Byron	T135-R32	Sec. 3-10,15-22,27-34	
	Poplar	T136-R32	Sec. 2-10,16-21,27-35	
	Ansel	T137-R32	Sec. 1-11,14-23,26-36	
	McKinley	T138-R32	Sec. All Sections	
Deerfield	T139-R31	Sec. 6,7,18,19,30		

<u>COUNTY</u>	<u>TOWNSHIP</u>	<u>TWP.-RGE.</u>	<u>SECTIONS</u>	<u>STUDY</u>
CHIPPEWA (surface aquifer)	Tunsberg	T118-R41	Sec. 3-10,16,18,19	U.S. Geological Survey Water Supply Paper 2039-B, Appleton Area
	Lac Qui Parle	T118-R42	Sec. 1,12,13	
	Big Bend	T119-R41	Sec. 5,6,7,17,18,19, 20,28,29,30,31, 32,33	
	Kragero	T119-R42	Sec. 1-18, 20-28,35,36	
CHISAGO (bedrock aquifer)	Wyoming	T33-R21	Sec. 4-9,16-21,28-34	U.S. Geological Survey Open File Report, Anoka Sand Plains (DOW Bulletin 27)
	Chisago Lake	T34-R20	Sec. 6	
	Lent	T34-R21	Sec. 1-23,26-34	
	Sunrise	T35-R20	Sec. 2,9,10,11,15,16,17, 19,20,21,29,30,31	
	Branch Village	T35-R21	Sec. 4-9,16-36	
	Harris Village	T36-R21	Sec. 28,29,31,32,33	
DAKOTA (wells finished bedrock only)	All Townships			No irrigation study (Bedrock aquifer delineated fairly well in existing Hydrological Atlases)
DOUGLAS (surface aquifer)	Orange	T127-R36	Sec. 18,19,20,29,30	Water Resource Investi- gations 23-75, Viking Basin
	Hudson	T127-R37	Sec. 4-11,13-18,20-29, 33,34,35	
	Alexandria	T128-R37	Sec. 4-9,16-21,28-32	
	LaGrand	T128-R38	Sec. 1,2,3,4,9-16, 21-27,35,36	
	Belle River	T129-R36	Sec. 2-11,13-18,22, 23,24	
	Carlos	T129-R37	Sec. 12,13,14,15,22, 23,24,28,29,30, 31,32,33	
	Ida	T129-R38	Sec. 24,25,26,34,35,36	
	Spruce Hill	T130-R36	Sec. 3-10,16-20,24,25,32	
	Miltona	T130-R37	Sec. 1,2,3,10,12,13,15,24, 25,26,35	
	Leaf Valley	T130-R38	Sec. 3-10,16,17,18	
Millerville	T130-R39	Sec. 1,2,3,11,12		
HENNEPIN (surface aquifer)		T118-R21	Sec. 1-5,9-15	U.S. Geological Study Open File Report-Anoka Sand Plains (DOW Bulletin 27)
		T119-R21	Sec. 2-30,32-36	
		T119-R22	Sec. 1,11,12	
	Champlin	T120-R21	Sec. 19,28-34	
	Dayton	T120-R22	Sec. 4,5,6,10,11,13,14, 22,24	

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HUBBARD (surface aquifer)	Badoura	T139-R32	Sec. All Sections	Park Rapids Study Area, (Data collection com- plete, U.S. Geological Survey will publish in near future)
	Crow Wing Lake	T139-R33	Sec. All Sections	
	Hubbard	T139-R34	Sec. All Sections	
	Straight River	T139-R35	Sec. All Sections	
	White Oak	T140-R32	Sec. 17,18,19,20,21, 26-36	
	Nevis	T140-R33	Sec. 11,12,13,14,15, 21-36	
	Henrietta	T140-R34	Sec. 19-36	
	Todd	T140-R35	Sec. 7,8,9,14-36	
ISANTI (surface aquifer)	Oxford	T34-R22	Sec. 1-24	U.S. Geological Survey Open File Report-Anoka Sand Plains (DOW Bulletin 27)
	Athens	T34-R23	Sec. 1-24	
		T34-R24	Sec. 1-24	
	Stanford	T34-R25	Sec. 1-5,10-14,24	
	North Branch	T35-R22	Sec. 24-29,31-36	
	Isanti	T35-R23	Sec. 3-9,16-20,29, 30,31,32,35	
	Bradford	T35-R24	Sec. All Sections	
	Spencer Brook	T35-R25	Sec. 1-30,32-36	
	Cambridge	T36-R23	Sec. 1,10-17,19-23, 26-34	
	Spring Vale	T36-R24	Sec. 5,6,7,8,17,18, 19,20,24-36	
	Wyanett	T36-R25	Sec. 1-5,7-36	
Stanchfield	T37-R23	Sec. 23-27,31-36		
Maple Ridge	T37-R24	Sec. 28-36		
Dalbo	T37-R25	Sec. 36		
KANDIYOHI (surface aquifer)	New London	T121-R34	Sec. 2,3	U.S. Geological Survey Water Supply Paper 1899-E, Brooten - Belgrade Area
	Roseville	T122-R33	Sec. 4-10,13-24,27-32	
	Burbank	T122-R34	Sec. All Sections	
	Colfax	T122-R35	Sec. 1-6,9-15,23,24, 25,26,36	
MILLE LACS (surface aquifer)	Princeton	T36-R26	Sec. 19,20,24-36	U.S. Geological Survey Open File Report-Anoka Sand Plains (DOW Bulletin 27)
	Greenbush	T36-R27	Sec. 24,25,26,33,34, 35,36	
MORRISON (surface aquifer)	Bellevue	T39-R31	Sec. 1-6,8-16,21-27, 33,34,36	U.S. Geological Survey Water Supply Paper 2009-D Little Falls Area
		T39-R32	Sec. 1-6,8-17,20,21,22, 23,24,26,27,28, 29,32,33,34,35	
	Pierz	T40-R30	Sec. 7,8,17,18,19,20,30	
	Agram	T40-R31	Sec. 7-36	
	Little Falls	T40-R32	Sec. 8,17,18,19,20,28-36	
	Hillman	T41-R29	Sec. 29,30	
	Buh	T41-R30	Sec. 20,25,27-34,36	

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MORRISON (cont.)	Bell Prairie	T41-R32	Sec. 1,2,11,12,13,14, 23,24,26,34,35,36		
	Ripley	T42-R32	Sec. 3,10,11,14,15,23,24, 25,36		
	Two Rivers	T127-R29	Sec. 5,6,7,8,17,21,22,26, 27,28		
		T127-R30	Sec. 1,2,9,11,12,13,14,23		
	Swan River	T128-R29	Sec. 7,18,19,20,29,31,32		
	Pike Creek	T129-R29	Sec. 5,6,7,18,19		
		T129-R30	Sec. 24		
	Green Prairie	T130-R29	Sec. 7,16-21,28-33		
	Darling	T130-R30	Sec. 10,13,14,22,23,24,25, 26,27,35,36		
	OTTER TAIL (surface aquifer)	Reynolds	T129-R34	Sec. 4,5	U.S. Geological Survey Water Resources Investi- gations, 23-75, Viking Basin
Burleene		T130-R35	Sec. 3,9,10,16,17,19,20, 21,28,36		
Eastern Parkers Prairie		T131-R36	Sec. 3-10,15-22,27-35		
		T131-R37	Sec. 1-18,20-28, 34, 35, 36		
Leaf Mountain		T131-R39	Sec. 4,5		
Woodside		T132-R36	Sec. All Sections		
Elmo		T132-R37	Sec. 1-5, 8-36		
Oak Valley		T133-R36	Sec. All Sections		
Inman		T133-R37	Sec. 1,11,12,13,14,19,20, 22-29,33,34,35,36		
Henning		T133-R38	Sec. 2,3,4,9,10,11,13,14, 15,16,18,19,21,22,23, 24,30,31		
Nidaros		T132-R39	Sec. 1-11,13-23,27-33	U.S. Geological Survey Water Supply Paper 2003, Perham Area	
Clitherall		T132-R40	Sec. 1,2,3,4,10-15,23,24, 25,36		
Girard		T133-R39	Sec. All Sections		
Everts		T133-R40	Sec. 1,2,3,4,8-17,20-28, 33,34,35,36		
Leaf Lake		T134-R38	Sec. 4-9, 16,17,18,19		
Otter Tail		T134-R39	Sec. All Sections		
Amor		T134-R40	Sec. 1,7-36		
Maine		T134-R41	Sec. 7-18,20-26		
Friberg		T134-R42	Sec. 12		
Bluffton		T135-R36	Sec. 36		
Otto		T135-R38	Sec. 5,6,7,8,9,16-22,27-33		
Rush Lake		T135-R39	Sec. 1,2,3,4,8-27,34,35,36		
Pine Lake		T136-R38	Sec. 3-10,15-36		
Perham		T136-R39	Sec. 1-5,8-17,19-30,32-36		
Corliss		T137-R38	Sec. 18,19,20,28-34		
Gorman		T137-R39	Sec. 8,9,10,11,13-30,32, 33,34,35,36		
Compton		T134-R36	Sec. 1,2,10-15,23,24,25, 26,36	U.S. Geological Survey Water Supply Paper 1983, Wadena Area	


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POPE (surface aquifer)	Hoff	T123-R40	Sec. 6,16,17,19,20, 21,28-34	U.S. Geological Survey Water Supply Paper 1899-J, Lake Emily, Pope County
	Walden	T124-R40	Sec. 3,4,5,7,8,9,10, 15-22,27,29-34	
	Lake Henry	T123-R33	Sec. 31	U.S. Geological Survey Water Supply Paper 1899-E, Brooten-Belgrade Area
	Lake Johanna	T123-R36	Sec. 1-18, 20-27,35,36	
	Gil Christ	T123-R37	Sec. 1	
	Bangor	T124-R36	Sec. 1-17,19-36	
	Chippewa Falls	T124-R37	Sec. 1,2,12,22-27,35,36	
	Grove Lake	T125-R36	Sec. 3-9,16-21,26-36	
	Glennwood	T125-R37	Sec. 1-6,8-17,20-27,35,36	
	Westport	T126-R36	Sec. 13,14,15,19-23,27-33	
Leven	T126-R37	Sec. 14,22-29,31-36		
RAMSEY (surface aquifer)		T30-R23	Sec. 1-9,18	U.S. Geological Survey Open File Report-Anoka Sand Plains (DOW Bulletin 27)
SCOTT (well finished in bedrock)	All Townships			No irrigation study (Bed- rock aquifer delineated fairly well in existing Hydrologic Atlases)
SHERBURNE (surface aquifer)		T32-R26	Sec. 1-6,10-14,24	U.S. Geological Survey Open File Report-Anoka Sand Plains (DOW Bulletin 27)
		T32-R27	Sec. 1,2,4,6	
		T32-R28	Sec. 1	
	Elk River	T33-R26	Sec. 4,7,8,9,17,18, 19,28,31-35	
	Big Lake	T33-R27	Sec. 1-23,25-36	
		T33-R28	Sec. 1-28,34,35	
	Livonia	T34-R26	Sec. 3-10,16-20,30	
	Orrock	T34-R27	Sec. All Sections	
	Becker	T34-R28	Sec. 1-4,9-15,19,22-27, 30-36	
	Clear Lake	T34-R29	Sec. 2-36	
		T34-R30	Sec. 1-5,8-16,23,24,25	
	Baldwin	T35-R26	Sec. All Sections	
	Blue Hill	T35-R27	Sec. 1-5,8-36	
	Santiago	T35-R28	Sec. 4-9,13-36	
	Palmer	T35-R29	Sec. All Sections	
Haven	T35-R30	Sec. All Sections		
	T35-R31	Sec. 1,12,13,24,25		

<u>COUNTY</u>	<u>TOWNSHIP</u>	<u>TWP.-RGE</u>	<u>SECTIONS</u>	<u>STUDY</u>
STEARNS (surface aquifer)	St. Augusta	T123-R27	Sec. 7,8,17-21,26-35	U.S. Geological Survey Water Supply Paper 1899-E
	Crow River	T123-R28	Sec. 1,11,12,13	
	Crow Lake	T123-R34	Sec. 3-11,14-36	
	St. Cloud	T123-R36	Sec. All Sections	
	Lake George	T124-R28	Sec. 2,11,14,23,26	
	North Fork	T124-R34	Sec. 31,32	
SWIFT (surface aquifer)	West Bank	T124-R35	Sec. 5-9,16-23,25-36	U.S. Geological Survey Water Supply Paper 2039-B, Appleton Area
	Edison	T120-R41	Sec. 7,18,19,20,29,30, 31,32	
	Appleton	T120-R42	Sec. All Sections	
	Moyer	T120-R43	Sec. 1-6,9-15,22-26,36	
	Shible	T121-R42	Sec. 5,8,17,20,21,27-34	
	Fair Field	T121-R43	Sec. 21,22,26,27,31-36	
TODD (surface aquifer)	Leslie	T122-R42	Sec. 4,9,16,20,21,29,30,32	U.S. Geological Survey Water Resources Investi- gations 23-75, Viking Basin
	Iona	T129-R35	Sec. 1,2,10,11,15,16,19, 20,21,22,27,28	
	Bertha	T130-R34	Sec. 31	
		T132-R35	Sec. 5,6,7,8,17,18,19, 20,30	
	Villard	T133-R32	Sec. 2,3	
	Stowe Prairie	T133-R35	Sec. 1-11,15-22,28-32	
WASHINGTON (surface aquifer)	Forest Lake	T32-R21	Sec. 4-8	U.S. Geological Survey Open File Report-Anoka Sand Plains (DOW Bulletin 27)
WADENA (surface aquifer)	Thomastown	T134-R33	Sec. All Sections	U.S. Geological Survey Water Supply Paper 1983, Wadena Area
	Aldrich	T134-R34	Sec. All Sections	
	Wadena	T134-R35	Sec. All Sections	
	Wing River	T135-R34	Sec. 1,2,11-16,19-36	
	Leaf River	T135-R35	Sec. 22-36	
	Bullard	T135-R33	Sec. 29,30,31,32,33	Park Rapids Study Area (Data Collection complete U.S. Geological Survey will be publishing in near future)
	Lyons	T136-R33	Sec. All Sections	
	North Germany	T136-R34	Sec. 1,2,3,4,10-15,23, 24,25,26,34,35,36	
	Orton	T137-R33	Sec. All Sections	
	Meadow	T137-R34	Sec. 1-30,32-36	
	Red Eye	T137-R35	Sec. 12,13,14,23,24	
	Huntersville	T138-R33	Sec. All Sections	
	Shell River	T138-R34	Sec. All Sections	
	Blueberry	T138-R35	Sec. 1-6,8-17,20-28,36	

<u>COUNTY</u>	<u>TOWNSHIP</u>	<u>TWP.-RGE.</u>	<u>SECTIONS</u>	<u>STUDY</u>
WRIGHT (surface aquifer)	Otsego	T121-R23	Sec. 10,14,15,16,17, 18,21-26,36	U.S. Geological Survey Open File Report-Anoka Sand Plains (DOW Bulletin 27)
	Monticello	T121-R24	Sec. 8,9,10,11,18	
		T121-R25	Sec. 3,4,5,8-16,21-29, 32,33	
	Clearwater	T122-R25	Sec. 19,30,31,32,33,34	
		T122-R26	Sec. 5,6,7,8,13-17,20, 21,24,25,28,29,32	
Clearwater	T122-R27	Sec. 1,2,3,10,11,12,15		

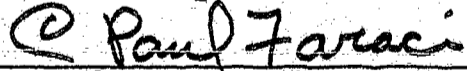
Dated this 5th day of April, 1978.

STATE OF MINNESOTA
DEPARTMENT OF NATURAL RESOURCES

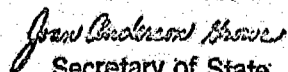

WILLIAM B. NYE, Commissioner

APPROVED AS TO FORM AND EXECUTION

WARREN SPANNAUS
Attorney General


C. PAUL FARACI
Deputy Attorney General
Department of Natural Resources

STATE OF MINNESOTA
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FILED
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Secretary of State