

## Selected Aquifer Parameters for Ground Water Provinces

	Specific Capacity	Transmissivity (T) $T = K \cdot \text{Thickness} \cdot 7.48$	Average Hydraulic Conductivity (K)	Comments
<b>Province 6</b>				
Glacial Drift	Variable	Variable	150 feet/day	Generally too thin for high capacity use Highly dependent on fractures
Precambrian Bedrock	<1 gpm/ft	<100 to 500 gpd/ft	0.1 feet/day	
<b>Province 5</b>				
Glacial Drift	<10 to >50 gpm/ft	<20,000 to >100,000 gpd/ft	150 feet/day	Best yields in buried channel deposits
Cretaceous Bedrock	<1 to 17 gpm/ft	<200 to 30,000 gpd/ft	20 feet/day	Dependent on fractures
Precambrian Bedrock	<1 to 5 gpm/ft	<100 to 5000 gpd/ft	0.1 feet/day	
<b>Province 4</b>				
Surficial and Buried Aquifers	<10 to >40 gpm/ft	<10,000 to >80,000 gpd/ft	150 feet/day	Dependent on fractures
Cretaceous Bedrock	<1 to 17 gpm/ft	<200 to 30,000 gpd/ft	20 feet/day	
Precambrian Bedrock	<1 gpm/ft	<100 to 500 gpd/ft	0.1 feet/day	
Biwabik Iron Formation	<1 to 10 gpm/ft	<1000 to 20,000 gpd/ft	2 feet/day	
<b>Province 3</b>				
Glacial Drift	Variable	Variable	150 feet/day	Generally too thin for high capacity use
Upper Carbonate	5 to 90 gpm/ft	8000 to 175,000 gpd/ft	25 feet/day	
St Peter	1 to 10 gpm/ft	2500 to 37,000 gpd/ft	10 feet/day	
Prairie du Chien-Jordan	3 to >100 gpm/ft	7000 to 250,000 gpd/ft	45 feet/day	
Franconia Iron-ton-Galesville	2 to 35 gpm/ft	4000 to 80,000 gpd/ft	25 feet/day	
Mt. Simon-Hinckley	1 to 33 gpm/ft	2000 to 70,000 gpd/ft	25 feet/day	
<b>Province 2</b>				
Glacial Drift	<10 to >30 gpm/ft	<10,000 to >50,000 gpd/ft	150 feet/day	Best yields in buried channel deposits
Upper Carbonate	5 to 90 gpm/ft	8000 to 175,000 gpd/ft	25 feet/day	
St Peter	1 to 10 gpm/ft	2500 to 37,000 gpd/ft	10 feet/day	SC near low end in southern metro
Prairie du Chien-Jordan	3 to >100 gpm/ft	7000 to 250,000 gpd/ft	45 feet/day	
Franconia Iron-ton-Galesville	2 to 35 gpm/ft	4000 to 80,000 gpd/ft	25 feet/day	
Mt. Simon-Hinckley	1 to 33 gpm/ft	2000 to 70,000 gpd/ft	25 feet/day	
<b>Province 1</b>				
Surficial and Buried Aquifers	<10 to >40 gpm/ft	<10,000 to >80,000 gpd/ft	150 feet/day	SC near high end of range in north metro
St Peter	1 to 10 gpm/ft	2500 to 37,000 gpd/ft	10 feet/day	
Prairie du Chien-Jordan	3 to >100 gpm/ft	7000 to 250,000 gpd/ft	45 feet/day	
Franconia Iron-ton-Galesville	2 to 35 gpm/ft	4000 to 80,000 gpd/ft	25 feet/day	
Mt. Simon-Hinckley	1 to 33 gpm/ft	2000 to 70,000 gpd/ft	25 feet/day	