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STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF LAND/NOISE POLLUTION CONTROL

GROUNDWATER WITHDRAWALS FROM AQUIFERS IN ILLINOIS WITH EMPHASIS ON PWS WELLS

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Table 13. Public water supply wells open to multiple aquifers (con't)

County / Pumping facility	Population (pop/yr.) / Average daily pumpage (gpd/yr)	Location (Sec,T/R)	No. of wells	Aquifers											Minor aquifers			Well yield(s) (gpm)	Well depth(s) (ft.)	Remarks
				Q	K-T	Pen	MCh	MVa	S-D	G-P	G-StP	E-P	I-G	E-MtS	Maq	PduC	F			
Cook		(9) Non-responsive																		
Mt. Prospect	45,228 * 4,000,000/78		10							7	9	9	10	9		5	9	500-1600	1310-1961	See table 6
Orland Park	6,391 * 1,833,000/77		1							1	1	1	1			1	1	900	1809	See tables 6 and 10
Palatine	26,050 * 4,098,000/77		7	1					2	3	3		5	2	1		4	250-1200	162-1960	See table 1.
Riverside	10,432 * 1,000,000/77		2							2	2	1	2	2		1		1200-1325	1980-2049	Approximately 5% of pumpage is surface water
Rolling Meadows	19,178 2,200,000/78		7							6	6	1	7	2		1	1	500-1000	1528-1602	
Schaumburg	18,730 * 5,306,000/78		4						1	4	4		3			4	2	900-1400	1350-1615	See tables 1 and 6
S. Chicago Hts.			(1)						1	1	1	1	1	1		1	1	225	2756	See table 6
Streamwood	18,176 * 2,100,000/78		1							1	1		1			1	1	500	1410	See table 1
Thornton	3,714 474,000/79		2							2	2	2	2			2	2	400-600	1724-1783	
Western Springs	13,029 * 1,398,000/78		2							2	2		1	1			2	1000-1260	1256-1913	See table 6
Wheeling	13,243 * 1,800,000/78		3							3	3		3				3	800-1300	1350-1370	See table 6
DeKalb																				
DeKalb	32,949 3,918,000/76		9							2	9	5	9		3		8	495-1331	1200-1330	
Genoa	3,210/75 428,500/77		3							3	3							500-1000	730-770	
Hinckley	1,053 115,400/77		2							2	2							300	605-708	

Table 6. Silurian-Devonian aquifer, public water supply wells (con't)

County	Pumping facility	Population (pop./yr)	Average daily pumpage of facility (gpd/yr)	No. of wells	Well location (sec.,T/R)	Well depth (feet)	Well yield (gpm)	Remarks
Cook	Prospect Meadows Subdivision (N.of Mt. Prospect)	600/78	35,050/78	1	(9) Non-responsive	201	175	
	Richton Park	2,558	753,000/79	2		418-439	500-800	
	Sauk Village	7,479	811,000/77	2		470-474	660-1000	
	Schaumberg	18,730	* 5,306,000/78	7		206-390	250-700	See tables 1 & 13
	S. Chicago Hts.	4,923	* 789,000/78	2 (1)		250-493	500-700	See table 13
	Steger (Will County)	8,104	840,000/77	1		378	550	See table 6 (Will County)
	Western Springs			(2)		313-364	250-500	See table 13
	Wheeling	13,243	* 1,800,000/78	3		200-281	200-400	See table 13
Douglas	Villa Grove	2,605	207,000/76	2		627-645	250	
DuPage	Addison	24,482	* 4,500,000/77	4		155-250	300-1000	See table 13
	Belmont-Highwood Public Water District	581/79	58,000/79	2		148-295	400-500	
	Black Hawk Hts. Subdivision (near Westmont)	1,015/77	66,700/77	1		295	200	

ABBREVIATIONS and DEFINITIONS

Abbreviations

E-P:	Eminence-Potosi
E-MtS:	Elmhurst-Mt. Simon
F:	Franconia
G-P:	Galena-Platteville
gpd:	Gallons per day
G-StP:	Glenwood-St. Peter
IDPH:	Illinois Department of Public Health
IEPA:	Illinois Environmental Protection Agency
IEPA-DPWS:	Illinois Environmental Protection Agency, Division of Public Water Supply
I-G:	Ironton-Galesville
ISGS:	Illinois State Geological Survey
ISWS:	Illinois State Water Survey
K-T:	Cretaceous-Tertiary
Maq:	Maquoketa
MCh:	Mississippian, Chesterian
mgd or MGD:	Million gallons per day
mg/l:	Milligrams per liter
MVa:	Mississippian, Valmeyeran
Pen:	Pennsylvanian
PduC:	Prairie du Chien
PWD:	Public Water District
PWS:	Public Water Supply
Q:	Quaternary
SIC:	Standard Industrial Classification
S-D:	Silurian-Devonian
SDWA:	Safe Drinking Water Act
TDS:	Total Dissolved Solids
UIC:	Underground Injection Control
U of I:	University of Illinois
U.S. EPA:	United States Environmental Protection Agency

Definitions

Agriculture: Those activities which are involved with the production of crops, food crops and livestock. Both livestock and irrigational water requirements are included.

Aquifer: A saturated geological formation, group of formations, or part of a formation with sufficient thickness and areal extent, that yields or can yield ground water to a well or a spring for intended use.

Minor Aquifer: An aquifer not meeting the aquifer definition above, due to local or regional variations in lithology, well yield, saturated thickness, aerial extent, or hydraulic conductivity.