Olentangy River Wetland Research Park, The Ohio State University

Pumping Table

(New) Gage feet	Gage (Old) feet	OR Flow cfs	Total Pumping rate gpm	% Flow	(New) Gage Feet	Gage (Old) feet	OR Flow cfs	Total Pumping rate gpm	% Flow
0.30	13.80	16	100	1.39%	2.20	15.70	1,826	1,068	0.13%
0.35	13.85	23	120	1.17%	2.25	15.75	1,890	1,087	0.13%
0.40	13.90	32	140	0.99%	2.30	15.80	1,955	1,105	0.13%
0.45	13.95	43	163	0.85%	2.35	15.85	2,021	1,124	0.12%
0.50	14.00	57	189	0.74%	2.40	15.90	2,088	1,142	0.12%
0.55	14.05	76	218	0.64%	2.45	15.95	2,156	1,161	0.12%
0.60	14.10	100	250	0.56%	2.50	16.00	2,225	1,179	0.12%
0.65	14.15	127	282	0.49%	2.55	16.10	2,369	1,217	0.11%
0.70	14.20	160	316	0.44%	2.60	16.15	2,442	1,235	0.11%
0.75	14.25	195	349	0.40%	2.65	16.20	2,517	1,254	0.11%
0.80	14.30	235	383	0.36%	2.70	16.25	2,592	1,273	0.11%
0.85	14.35	279	418	0.33%	2.75	16.30	2,669	1,292	0.11%
0.90	14.40	330	454	0.31%	2.80	16.35	2,747	1,310	0.11%
0.95	14.45	378	486	0.29%	2.85	16.40	2,826	1,329	0.10%
1.00	14.50	430	518	0.27%	2.90	16.45	2,905	1,347	0.10%
1.05	14.55	481	548	0.25%	2.95	16.50	2,986	1,366	0.10%
1.10	14.60	535	578	0.24%	3.00	16.55	3,068	1,385	0.10%
1.15	14.65	591	608	0.23%	3.05	16.60	3,151	1,403	0.10%
1.20	14.70	650	637	0.22%	3.10	16.65	3,235	1,422	0.10%
1.25	14.75	704	663	0.21%	3.15	16.70	3,321	1,441	0.10%
1.30	14.80	760	689	0.20%	3.20	16.75	3,407	1,459	0.10%
1.35	14.85	819	715	0.19%	3.25	16.80	3,494	1,478	0.09%
1.40	14.90	880	742	0.19%	3.30	16.85	3,582	1,496	0.09%
1.45	14.95	934	764	0.18%	3.35	16.90	3,672	1,515	0.09%
1.50	15.00	990	787	0.18%	3.40	16.95	3,853	1,533	0.09%
1.55	15.05	1,045	808	0.17%	3.45	17.00	3,853	1,552	0.09%
1.60	15.10	1,101	830	0.17%	3.50	17.05	3,946	1,570	0.09%
1.65	15.15	1,159	851	0.16%	3.55	17.10	4,039	1,589	0.09%
1.70	15.20	1,219	873	0.16%	3.60	17.15	4,134	1,607	0.09%
1.75	15.25	1,280	894	0.16%	3.65	17.20	4,230	1,626	0.09%
1.80	15.30	1,337	914	0.15%	3.70	17.25	4,326	1,644	0.08%
1.85	15.35	1,396	934	0.15%	3.75	17.30	4,424	1,663	0.08%
1.90	15.40	1,456	954	0.15%	3.80	17.35	4,523	1,681	0.08%
1.95	15.45	1,517	974	0.14%	3.85	17.40	4,622	1,700	0.08%
2.00	15.50	1,580	994	0.14%	3.90	17.45	4,723	1,718	0.08%
2.05	15.55	1,640	1,012	0.14%	3.95	17.50	4,825	1,737	0.08%
2.10	15.60	1,701	1,031	0.14%	4.00	17.55	4,928	1,755	0.08%
2.15	15.65	1,763	1,050	0.13%	4.05	17.60	5,032	1,773	0.08%

Pumping rate (gpm) = 25 * Q^0.5, where Q = river flow (cfs).

Log Q (cfs)=-8297.686+20553.497LOG(13.50+X)-16968.005(LOG(13.50+X))^2+4670.576 (LOG(13.50+X)^3

Where X = Staff Gage reading (ft)