Soil Drain Size (in.); Drain Depth (ft.); Lateral Effect Mean (ft.); Lateral Effect Rounded (ft.)

Lateral Effect using Rosetta and Batch mode NDdrain-NASIS

Soil	Drain size-in.	Drain depth-ft.	Lateral Effect Mean-ft.	Lateral Effect Rounded Mean-ft.	
Adrian	4	2	188	180	Adrian with 90% sand, 6% silt, and 4% clay in the muck layers. (Averages of the non-muck horizons underlying the muck horizons in all Ohio Adrian components.)
	4	3	248	240	
	4	4	291	290	
	4	5	325	320	
	Open Ditch	2	205	200	
	Open Ditch	3	262	260	
	Open Ditch	4	302	300	
	Open Ditch	5	333	330	
	Open Ditch	6	356	350	
	Open Ditch	7	373	370	
	Open Ditch	8	385	380	
Aetna	4	2	78	80	
	4	3	108	100	
	4	4	130	130	
	4	5	147	140	
	Open Ditch	2	94	95	
	Open Ditch	3	121	120	
	Open Ditch	4	140	140	
	Open Ditch	5	155	150	
	Open Ditch	6	166	160	
	Open Ditch	7	174	170	
	Open Ditch	8	179	170	
Algansee	4	2	147	140	
	4	3	197	190	
	4	4	232	230	
	4	5	260	260	
	Open Ditch	2	164	160	
	Open Ditch	3	210	210	
	Open Ditch	4	243	240	
	Open Ditch	5	268	260	
	Open Ditch	6	286	280	
	Open Ditch	7	300	300	
	Open Ditch	8	309	300	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Algiers	4	2	77	75						
	4	3	106	100						
	4	4	129	120						
	4	5	145	140						
	Open Ditch	2	92	90						
	Open Ditch	3	120	120						
	Open Ditch	4	139	130						
	Open Ditch	5	153	150						
	Open Ditch	6	164	160						
	Open Ditch	7	172	170						
	Open Ditch	8	177	170						
Allis	4	2	43	45	There are 9 map units. Depth to bedrock ranges from 28-36in (71-91cm). Series range is 20-40in (51-102cm).					
	4	3	51	50						
	4	4	---	---						
	4	5	---	---						
	Open Ditch	2	45	45						
	Open Ditch	3	51	50						
	Open Ditch	4	---	---						
	Open Ditch	5	---	---						
	Open Ditch	6	---	---						
	Open Ditch	7	---	---						
	Open Ditch	8	---	---						
Alvada	4	2	45	45						
	4	3	64	65						
	4	4	79	80						
	4	5	91	90						
	Open Ditch	2	58	60						
	Open Ditch	3	76	75						
	Open Ditch	4	89	90						
	Open Ditch	5	98	100						
	Open Ditch	6	106	100						
	Open Ditch	7	111	110						
	Open Ditch	8	114	110						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Atlas	4	2	54	55						
	4	3	76	75						
	4	4	93	95						
	4	5	106	100						
	Open Ditch	2	68	70						
	Open Ditch	3	88	90						
	Open Ditch	4	103	100						
	Open Ditch	5	113	110						
	Open Ditch	6	122	120						
	Open Ditch	7	128	120						
	Open Ditch	8	132	130						
Aurand	4	2	40	40						
	4	3	58	60						
	4	4	72	70						
	4	5	83	85						
	Open Ditch	2	54	55						
	Open Ditch	3	70	70						
	Open Ditch	4	81	80						
	Open Ditch	5	90	90						
	Open Ditch	6	97	100						
	Open Ditch	7	102	100						
	Open Ditch	8	105	100						
Avonburg	4	2	66	65						
	4	3	92	90						
	4	4	112	110						
	4	5	127	120						
	Open Ditch	2	81	80						
	Open Ditch	3	105	100						
	Open Ditch	4	122	120						
	Open Ditch	5	135	130						
	Open Ditch	6	144	140						
	Open Ditch	7	151	150						
	Open Ditch	8	156	150						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Beaucoup	4	2	67	65						
	4	3	93	95						
	4	4	114	110						
	4	5	128	120						
	Open Ditch	2	82	80						
	Open Ditch	3	106	100						
	Open Ditch	4	123	120						
	Open Ditch	5	136	130						
	Open Ditch	6	146	140						
	Open Ditch	7	153	150						
	Open Ditch	8	158	150						
Belleville	4	2	114	110						
	4	3	155	150						
	4	4	184	180						
	4	5	206	200						
	Open Ditch	2	130	130						
	Open Ditch	3	168	160						
	Open Ditch	4	194	190						
	Open Ditch	5	214	210						
	Open Ditch	6	229	220						
	Open Ditch	7	240	240						
	Open Ditch	8	248	240						
Bennington	4	2	40	40						
	4	3	57	55						
	4	4	71	70						
	4	5	82	80						
	Open Ditch	2	53	55						
	Open Ditch	3	69	70						
	Open Ditch	4	81	80						
	Open Ditch	5	89	90						
	Open Ditch	6	96	95						
	Open Ditch	7	101	100						
	Open Ditch	8	104	100						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Bixler	4	2	113	110	Includes Defiance County BhA and Paulding County BkA (clayey substratum).
	4	3	153	150	
	4	4	182	180	
	4	5	204	200	
	Open Ditch	2	129	120	
	Open Ditch	3	166	160	
	Open Ditch	4	192	190	
	Open Ditch	5	212	210	
	Open Ditch	6	227	220	
	Open Ditch	7	238	230	
	Open Ditch	8	245	240	
Blanchester	4	2	39	40	
	4	3	56	55	
	4	4	70	70	
	4	5	81	80	
	Open Ditch	2	52	50	
	Open Ditch	3	68	70	
	Open Ditch	4	79	80	
	Open Ditch	5	88	90	
	Open Ditch	6	95	95	
	Open Ditch	7	100	100	
	Open Ditch	8	103	100	
Blount	4	2	37	35	Includes Williams County BoA and BoB (loamy substratum). Values for these are the same as some other components. (But on the extreme low range.)
	4	3	53	55	
	4	4	66	65	
	4	5	77	75	
	Open Ditch	2	50	50	Does not include Hardin County BpA (limestone substratum).
	Open Ditch	3	65	65	
	Open Ditch	4	76	75	
	Open Ditch	5	84	85	
	Open Ditch	6	91	90	
	Open Ditch	7	95	95	
	Open Ditch	8	98	100	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Blount, limestone substratum	4	2	36	35	There is 1 map unit. Depth to bedrock is 52in (132cm). Series range is 40-60in (102-152cm).
	4	3	47	45	
	4	4	54	55	
	4	5	---	---	
	Open Ditch	2	41	40	
	Open Ditch	3	50	50	
	Open Ditch	4	55	55	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	
Bonnie	4	2	82	80	
	4	3	112	110	
	4	4	136	130	
	4	5	155	150	
	Open Ditch	2	98	100	
	Open Ditch	3	126	120	
	Open Ditch	4	146	140	
	Open Ditch	5	162	160	
	Open Ditch	6	173	170	
	Open Ditch	7	182	180	
	Open Ditch	8	187	180	
Bono	4	2	31	30	Does not include Seneca County Bp (loamy substratum).
	4	3	46	45	
	4	4	57	55	
	4	5	66	65	
	Open Ditch	2	43	45	
	Open Ditch	3	56	55	
	Open Ditch	4	66	65	
	Open Ditch	5	73	75	
	Open Ditch	6	79	80	
	Open Ditch	7	83	85	
	Open Ditch	8	85	85	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Bono, loamy substratum	4	2	53	55						
	4	3	75	75						
	4	4	91	90						
	4	5	105	100						
	Open Ditch	2	67	65						
	Open Ditch	3	87	85						
	Open Ditch	4	101	100						
	Open Ditch	5	112	110						
	Open Ditch	6	120	120						
	Open Ditch	7	126	120						
	Open Ditch	8	130	130						
Brady	4	2	170	170						
	4	3	226	220						
	4	4	266	260						
	4	5	297	290						
	Open Ditch	2	187	180						
	Open Ditch	3	240	240						
	Open Ditch	4	277	270						
	Open Ditch	5	305	300						
	Open Ditch	6	327	320						
	Open Ditch	7	342	340						
	Open Ditch	8	353	350						
Brenton	4	2	70	70						
	4	3	97	95						
	4	4	118	110						
	4	5	133	130						
	Open Ditch	2	85	85						
	Open Ditch	3	110	110						
	Open Ditch	4	127	120						
	Open Ditch	5	141	140						
	Open Ditch	6	151	150						
	Open Ditch	7	158	150						
	Open Ditch	8	163	160						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Brookston	4	2	48	50						
	4	3	68	70						
	4	4	83	85						
	4	5	96	95						
	Open Ditch	2	61	60						
	Open Ditch	3	80	80						
	Open Ditch	4	93	95						
	Open Ditch	5	103	100						
	Open Ditch	6	111	110						
	Open Ditch	7	116	110						
	Open Ditch	8	120	120						
Calcutta	4	2	188	180						
	4	3	249	240						
	4	4	292	290						
	4	5	326	320						
	Open Ditch	2	205	200						
	Open Ditch	3	262	260						
	Open Ditch	4	393	390						
	Open Ditch	5	334	330						
	Open Ditch	6	357	350						
	Open Ditch	7	374	370						
	Open Ditch	8	385	380						
Canadice	4	2	39	40						
	4	3	56	55						
	4	4	69	70						
	4	5	80	80						
	Open Ditch	2	52	50						
	Open Ditch	3	67	65						
	Open Ditch	4	79	80						
	Open Ditch	5	88	90						
	Open Ditch	6	94	95						
	Open Ditch	7	99	100						
	Open Ditch	8	102	100						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Canal	4	2	65	65						
	4	3	91	90						
	4	4	111	110						
	4	5	125	120						
	Open Ditch	2	80	80						
	Open Ditch	3	103	100						
	Open Ditch	4	120	120						
	Open Ditch	5	133	130						
	Open Ditch	6	143	140						
	Open Ditch	7	150	150						
	Open Ditch	8	154	150						
Caneadea	4	2	40	40						
	4	3	58	60						
	4	4	72	70						
	4	5	83	85						
	Open Ditch	2	53	55						
	Open Ditch	3	70	70						
	Open Ditch	4	81	80						
	Open Ditch	5	90	90						
	Open Ditch	6	97	95						
	Open Ditch	7	102	100						
	Open Ditch	8	105	100						
Carlisle	4	2	66	65	Average of results from 5% sand/90% silt/5% clay and 25% sand/50% silt/25% clay.					
	4	3	95	95						
	4	4	112	110						
	4	5	127	120						
	Open Ditch	2	81	80						
	Open Ditch	3	105	100						
	Open Ditch	4	122	120						
	Open Ditch	5	134	130						
	Open Ditch	6	144	140						
	Open Ditch	7	151	150						
	Open Ditch	8	156	150						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Ceresco	4	2	80	80						
	4	3	110	110						
	4	4	132	130						
	4	5	150	150						
	Open Ditch	2	95	95						
	Open Ditch	3	123	120						
	Open Ditch	4	142	140						
	Open Ditch	5	158	150						
	Open Ditch	6	169	160						
	Open Ditch	7	176	170						
	Open Ditch	8	182	180						
Claysville	4	2	34	35						
	4	3	50	50						
	4	4	62	60						
	4	5	72	70						
	Open Ditch	2	47	45						
	Open Ditch	3	61	60						
	Open Ditch	4	71	70						
	Open Ditch	5	79	80						
	Open Ditch	6	85	85						
	Open Ditch	7	89	90						
	Open Ditch	8	92	90						
Clermont	4	2	65	65						
	4	3	91	90						
	4	4	111	110						
	4	5	126	120						
	Open Ditch	2	80	80						
	Open Ditch	3	104	100						
	Open Ditch	4	121	120						
	Open Ditch	5	134	130						
	Open Ditch	6	143	140						
	Open Ditch	7	150	150						
	Open Ditch	8	155	150						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Cohoctah	4	2	131	130						
	4	3	176	170						
	4	4	208	200						
	4	5	233	230						
	Open Ditch	2	147	140						
	Open Ditch	3	189	180						
	Open Ditch	4	219	210						
	Open Ditch	5	241	240						
	Open Ditch	6	258	250						
	Open Ditch	7	270	270						
	Open Ditch	8	279	270						
Colwood	4	2	118	110	Does not include Erie County CnA (bedrock substratum).					
	4	3	160	160						
	4	4	190	190						
	4	5	212	210						
	Open Ditch	2	134	130						
	Open Ditch	3	173	170						
	Open Ditch	4	200	200						
	Open Ditch	5	220	220						
	Open Ditch	6	236	230						
	Open Ditch	7	247	240						
	Open Ditch	8	255	250						
Colwood, bedrock substratum	4	2	82	80	There is 1 map unit. Depth to bedrock is 47in (119cm). Series range is 40-60in (102-152cm).					
	4	3	103	100						
	4	4	115	110						
	4	5	---	---						
	Open Ditch	2	87	85						
	Open Ditch	3	106	100						
	Open Ditch	4	116	110						
	Open Ditch	5	---	---						
	Open Ditch	6	---	---						
	Open Ditch	7	---	---						
	Open Ditch	8	---	---						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Condit	4	2	34	35						
	4	3	49	50						
	4	4	61	60						
	4	5	71	70						
	Open Ditch	2	46	45						
	Open Ditch	3	60	60						
	Open Ditch	4	70	70						
	Open Ditch	5	78	80						
	Open Ditch	6	84	85						
	Open Ditch	7	88	90						
	Open Ditch	8	91	90						
Conneaut	4	2	62	60	Does not include Lake County CwA (shale substratum).					
	4	3	86	85						
	4	4	104	100						
	4	5	119	110						
	Open Ditch	2	76	75						
	Open Ditch	3	98	100						
	Open Ditch	4	114	110						
	Open Ditch	5	127	120						
	Open Ditch	6	136	130						
	Open Ditch	7	142	140						
	Open Ditch	8	147	140						
Conneaut, shale substratum	4	2	52	50	There is 1 map unit. Depth to bedrock is 43in (109cm). Series range is 40-60in (102-152cm).					
	4	3	67	65						
	4	4	75	75						
	4	5	---	---						
	Open Ditch	2	57	55						
	Open Ditch	3	70	70						
	Open Ditch	4	76	75						
	Open Ditch	5	---	---						
	Open Ditch	6	---	---						
	Open Ditch	7	---	---						
	Open Ditch	8	---	---						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Corunna	4	2	68	70						
	4	3	94	95						
	4	4	115	110						
	4	5	130	130						
	Open Ditch	2	83	85						
	Open Ditch	3	107	100						
	Open Ditch	4	124	120						
	Open Ditch	5	138	130						
	Open Ditch	6	147	140						
	Open Ditch	7	155	150						
	Open Ditch	8	159	150						
Crane	4	2	228	220						
	4	3	300	300						
	4	4	350	350						
	4	5	390	390						
	Open Ditch	2	245	240						
	Open Ditch	3	313	310						
	Open Ditch	4	362	360						
	Open Ditch	5	398	390						
	Open Ditch	6	436	400						
	Open Ditch	7	446	400						
	Open Ditch	8	459	400						
Crosby	4	2	49	50						
	4	3	69	70						
	4	4	84	85						
	4	5	98	100						
	Open Ditch	2	62	60						
	Open Ditch	3	81	80						
	Open Ditch	4	95	95						
	Open Ditch	5	105	100						
	Open Ditch	6	112	110						
	Open Ditch	7	118	110						
	Open Ditch	8	122	120						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Cyclone	4	2	96	95						
	4	3	131	130						
	4	4	157	150						
	4	5	177	170						
	Open Ditch	2	112	110						
	Open Ditch	3	144	140						
	Open Ditch	4	167	160						
	Open Ditch	5	185	180						
	Open Ditch	6	198	190						
	Open Ditch	7	207	200						
	Open Ditch	8	214	210						
Damascus	4	2	280	280	Does not include:					
	4	3	365	360	Mahoning County Dc (till substratum)					
	4	4	427	400	Stark County Dc (till substratum)					
	4	5	473	400						
	Open Ditch	2	297	290						
	Open Ditch	3	379	370						
	Open Ditch	4	438	400						
	Open Ditch	5	482	400						
	Open Ditch	6	515	400						
	Open Ditch	7	539	400						
	Open Ditch	8	556	400						
Damascus, till substratum	4	2	82	80						
	4	3	112	110						
	4	4	136	130						
	4	5	153	150						
	Open Ditch	2	97	95						
	Open Ditch	3	125	120						
	Open Ditch	4	146	140						
	Open Ditch	5	161	160						
	Open Ditch	6	172	170						
	Open Ditch	7	181	180						
	Open Ditch	8	186	180						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Darien	4	2	52	50	Does not include:
	4	3	73	75	Geauga County DrA, DrB (bedrock substratum)
	4	4	90	90	Lake County DaA, DaB, DaC (bedrock substratum)
	4	5	103	100	
	Open Ditch	2	66	65	
	Open Ditch	3	86	85	
	Open Ditch	4	100	100	
	Open Ditch	5	111	110	
	Open Ditch	6	118	110	
	Open Ditch	7	124	120	
	Open Ditch	8	128	120	
Darien, bedrock substratum	4	2	44	45	There are 5 map units. Depth to bedrock ranges from 45-55in (114-140cm). Series range is 40-60in (102-152cm).
	4	3	57	55	
	4	4	64	65	
	4	5	---	---	
	Open Ditch	2	49	50	
	Open Ditch	3	60	60	
	Open Ditch	4	65	65	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	
Darroch	4	2	67	65	
	4	3	93	95	
	4	4	114	110	
	4	5	128	120	
	Open Ditch	2	82	80	
	Open Ditch	3	106	100	
	Open Ditch	4	123	120	
	Open Ditch	5	136	130	
	Open Ditch	6	146	140	
	Open Ditch	7	153	150	
	Open Ditch	8	158	150	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Defiance	4	2	42	40						
	4	3	60	60						
	4	4	74	75						
	4	5	86	85						
	Open Ditch	2	56	55						
	Open Ditch	3	72	70						
	Open Ditch	4	84	85						
	Open Ditch	5	94	95						
	Open Ditch	6	100	100						
	Open Ditch	7	105	100						
	Open Ditch	8	109	100						
Del Rey	4	2	42	40	Does not include:					
	4	3	60	60	Defiance County DgA (coarse substratum variant)					
	4	4	74	75	Lake County DeA (sandy substratum)					
	4	5	86	85						
	Open Ditch	2	55	55						
	Open Ditch	3	72	70						
	Open Ditch	4	84	85						
	Open Ditch	5	93	95						
	Open Ditch	6	100	100						
	Open Ditch	7	105	100						
	Open Ditch	8	108	100						
Del Rey, sandy substratum coarse substratum variant	4	2	193	190						
	4	3	254	250						
	4	4	299	290						
	4	5	333	330						
	Open Ditch	2	210	210						
	Open Ditch	3	268	260						
	Open Ditch	4	310	310						
	Open Ditch	5	342	340						
	Open Ditch	6	365	360						
	Open Ditch	7	382	380						
	Open Ditch	8	394	390						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Digby	4	2	240	240	Includes Auglaize County DoA (Digby Variant).
	4	3	314	310	
	4	4	368	360	Does not include:
	4	5	408	400	Putnam County DoA (moderately shallow variant)
	Open Ditch	2	257	250	Wood County HeA, HeB, HfA, HfB (till substratum)
	Open Ditch	3	328	320	
	Open Ditch	4	379	370	
	Open Ditch	5	417	400	
	Open Ditch	6	446	400	
	Open Ditch	7	466	400	
	Open Ditch	8	481	400	
Digby, till substratum	4	2	61	60	
	4	3	85	85	
	4	4	104	100	
	4	5	118	110	
	Open Ditch	2	76	75	
	Open Ditch	3	98	100	
	Open Ditch	4	114	110	
	Open Ditch	5	126	120	
	Open Ditch	6	134	130	
	Open Ditch	7	142	140	
	Open Ditch	8	146	140	
Digby, moderately shallow variant	4	2	34	35	This is the moderately shallow variant from Putnam County. Not the Variant from Auglaize County.
	4	3	---	---	
	4	4	---	---	
	4	5	---	---	There is 1 map unit. Depth to bedrock is 28in (71cm). Series range is 20-30in (51-76cm).
	Open Ditch	2	34	35	
	Open Ditch	3	---	---	
	Open Ditch	4	---	---	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Dixboro	4	2	94	95						
	4	3	128	120						
	4	4	154	150						
	4	5	173	170						
	Open Ditch	2	110	110						
	Open Ditch	3	142	140						
	Open Ditch	4	164	160						
	Open Ditch	5	181	180						
	Open Ditch	6	194	190						
	Open Ditch	7	203	200						
	Open Ditch	8	209	200						
Doles	4	2	60	60						
	4	3	84	85						
	4	4	102	100						
	4	5	116	110						
	Open Ditch	2	74	75						
	Open Ditch	3	97	95						
	Open Ditch	4	112	110						
	Open Ditch	5	124	120						
	Open Ditch	6	134	130						
	Open Ditch	7	140	140						
	Open Ditch	8	144	140						
Drummer	4	2	183	180						
	4	3	243	240						
	4	4	286	280						
	4	5	319	310						
	Open Ditch	2	201	200						
	Open Ditch	3	257	250						
	Open Ditch	4	297	290						
	Open Ditch	5	327	320						
	Open Ditch	6	350	350						
	Open Ditch	7	366	360						
	Open Ditch	8	377	370						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Dubois	4	2	69	70						
	4	3	95	95						
	4	4	116	110						
	4	5	131	130						
	Open Ditch	2	84	85						
	Open Ditch	3	108	100						
	Open Ditch	4	126	120						
	Open Ditch	5	139	130						
	Open Ditch	6	149	140						
	Open Ditch	7	156	150						
	Open Ditch	8	161	160						
Dunham	4	2	246	240						
	4	3	323	320						
	4	4	378	370						
	4	5	420	400						
	Open Ditch	2	264	260						
	Open Ditch	3	337	330						
	Open Ditch	4	389	380						
	Open Ditch	5	428	400						
	Open Ditch	6	457	400						
	Open Ditch	7	479	400						
	Open Ditch	8	494	400						
Edwards	4	2	64	65	Average of results from 5% sand/90% silt/5% clay and 25% sand/50% silt/25% clay.					
	4	3	90	90						
	4	4	109	100						
	4	5	125	120						
	Open Ditch	2	80	80						
	Open Ditch	3	103	100						
	Open Ditch	4	120	120						
	Open Ditch	5	132	130						
	Open Ditch	6	141	140						
	Open Ditch	7	148	140						
	Open Ditch	8	153	150						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Elliott	4	2	53	55	Does not include Erie County EcA (bedrock substratum).
	4	3	75	75	
	4	4	91	90	
	4	5	105	100	
	Open Ditch	2	67	65	
	Open Ditch	3	88	90	
	Open Ditch	4	102	100	
	Open Ditch	5	113	110	
	Open Ditch	6	121	120	
	Open Ditch	7	126	120	
	Open Ditch	8	130	130	
Elliott, bedrock substratum	4	2	56	55	There is 1 map unit. Depth to bedrock is 65in (165cm). Series range is 60-80in (152-203cm).
	4	3	75	75	
	4	4	88	90	
	4	5	96	95	
	Open Ditch	2	64	65	
	Open Ditch	3	81	80	
	Open Ditch	4	91	90	
	Open Ditch	5	97	95	
	Open Ditch	6	100	100	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	
Euclid	4	2	68	70	
	4	3	94	95	
	4	4	115	110	
	4	5	130	130	
	Open Ditch	2	83	80	
	Open Ditch	3	107	100	
	Open Ditch	4	125	120	
	Open Ditch	5	140	140	
	Open Ditch	6	148	140	
	Open Ditch	7	155	150	
	Open Ditch	8	160	160	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Fincastle	4	2	54	55	Does not include:
	4	3	76	75	Butler County FdA, FdB (bedrock substratum)
	4	4	93	95	Preble County FdA (bedrock substratum)
	4	5	106	100	
	Open Ditch	2	68	70	
	Open Ditch	3	88	90	
	Open Ditch	4	103	100	
	Open Ditch	5	114	110	
	Open Ditch	6	122	120	
	Open Ditch	7	128	120	
	Open Ditch	8	132	130	
Fincastle, bedrock substratum	4	2	54	55	There are 3 map units. Depth to bedrock ranges from 56-63in (142-160cm). Series range is 48-72in (122-183cm).
	4	3	73	75	
	4	4	84	85	
	4	5	90	90	
	Open Ditch	2	62	60	
	Open Ditch	3	78	80	
	Open Ditch	4	86	85	
	Open Ditch	5	91	90	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	
Fitchville	4	2	68	70	Includes all Fitchville and Fitchville Variant Components. Medina County and Summit County low terrace map units have higher Ksat in the bottom layer, and this causes lateral effect numbers to be higher. Jon R. says that Ksat for these should not be any different than the other map units, and that all Fitchville map units should be grouped together in the lateral effect list. So these numbers are the mean for all map units except the 2 low terrace units.
	4	3	94	95	
	4	4	114	110	
	4	5	130	130	
	Open Ditch	2	83	85	
	Open Ditch	3	107	100	
	Open Ditch	4	124	120	
	Open Ditch	5	138	130	I included the 3 Fitchville gravelly subsoil map units. The numbers are all ~20-40ft higher than the regular series.
	Open Ditch	6	147	140	
	Open Ditch	7	154	150	
	Open Ditch	8	159	150	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Frenchtown	4	2	53	55						
	4	3	76	75						
	4	4	92	90						
	4	5	106	100						
	Open Ditch	2	68	70						
	Open Ditch	3	88	90						
	Open Ditch	4	103	100						
	Open Ditch	5	113	110						
	Open Ditch	6	122	120						
	Open Ditch	7	128	120						
	Open Ditch	8	132	130						
Fries	4	2	32	30						
	4	3	37	35						
	4	4	---	---						
	4	5	---	---						
	Open Ditch	2	34	35						
	Open Ditch	3	37	35						
	Open Ditch	4	--	--						
	Open Ditch	5	---	---						
	Open Ditch	6	---	---						
	Open Ditch	7	---	---						
	Open Ditch	8	---	---						
Fulton	4	2	38	40	Includes till substratum components.					
	4	3	54	55						
	4	4	67	65	Does not include:					
	4	5	78	80	Defiance County FvA (loamy substratum)					
	Open Ditch	2	50	50	Henry County FvA (sandy subsoil variant)					
	Open Ditch	3	66	65	Lorain County FvA (sandy substratum)					
	Open Ditch	4	77	75	Paulding County FxA, FxB (loamy substratum)					
	Open Ditch	5	85	85	Putnam County FvA (gravelly substratum)					
	Open Ditch	6	92	90	Putnam County FwA (loamy substratum)					
	Open Ditch	7	96	95						
	Open Ditch	8	99	100						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Fulton, loamy substratum	4	2	52	50						
	4	3	74	75						
	4	4	90	90						
	4	5	104	100						
	Open Ditch	2	66	65						
	Open Ditch	3	86	85						
	Open Ditch	4	100	100						
	Open Ditch	5	110	110						
	Open Ditch	6	119	110						
	Open Ditch	7	125	120						
	Open Ditch	8	129	120						
Fulton, sandy subsoil variant sandy substratum gravelly substratum	4	2	110	110						
	4	3	149	140						
	4	4	178	170						
	4	5	200	200						
	Open Ditch	2	126	120						
	Open Ditch	3	163	160						
	Open Ditch	4	188	180						
	Open Ditch	5	207	200						
	Open Ditch	6	222	220						
	Open Ditch	7	233	230						
	Open Ditch	8	240	240						
Gavers	4	2	76	75						
	4	3	105	100						
	4	4	127	120						
	4	5	144	140						
	Open Ditch	2	91	90						
	Open Ditch	3	118	110						
	Open Ditch	4	137	130						
	Open Ditch	5	151	150						
	Open Ditch	6	162	160						
	Open Ditch	7	170	170						
	Open Ditch	8	175	170						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Gilford	4	2	119	110						
	4	3	160	160						
	4	4	191	190						
	4	5	214	210						
	Open Ditch	2	135	130						
	Open Ditch	3	173	170						
	Open Ditch	4	201	200						
	Open Ditch	5	221	220						
	Open Ditch	6	237	230						
	Open Ditch	7	248	240						
	Open Ditch	8	256	250						
Ginat	4	2	155	150						
	4	3	208	200						
	4	4	245	240						
	4	5	274	270						
	Open Ditch	2	173	170						
	Open Ditch	3	221	220						
	Open Ditch	4	256	250						
	Open Ditch	5	282	280						
	Open Ditch	6	301	300						
	Open Ditch	7	316	310						
	Open Ditch	8	326	320						
Glendora	4	2	210	210						
	4	3	276	270						
	4	4	324	320						
	4	5	360	360						
	Open Ditch	2	226	220						
	Open Ditch	3	290	290						
	Open Ditch	4	335	330						
	Open Ditch	5	369	360						
	Open Ditch	6	394	390						
	Open Ditch	7	413	400						
	Open Ditch	8	425	400						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Granby	4	2	214	210	Does not include:
	4	3	280	280	Defiance County Gx (clayey substratum)
	4	4	329	320	Paulding County Gr (clayey substratum)
	4	5	366	360	Williams County GpA (till substratum)
	Open Ditch	2	230	230	
	Open Ditch	3	294	290	
	Open Ditch	4	340	340	
	Open Ditch	5	375	370	
	Open Ditch	6	400	400	
	Open Ditch	7	419	400	
	Open Ditch	8	432	400	
Granby, clayey substratum till substratum	4	2	137	130	
	4	3	184	180	
	4	4	218	210	
	4	5	244	240	
	Open Ditch	2	154	150	
	Open Ditch	3	197	190	
	Open Ditch	4	229	220	
	Open Ditch	5	252	250	
	Open Ditch	6	269	260	
	Open Ditch	7	282	280	
	Open Ditch	8	291	290	
Gresham	4	2	46	45	
	4	3	66	65	
	4	4	81	80	
	4	5	93	95	
	Open Ditch	2	60	60	
	Open Ditch	3	78	80	
	Open Ditch	4	91	90	
	Open Ditch	5	100	100	
	Open Ditch	6	108	100	
	Open Ditch	7	114	110	
	Open Ditch	8	116	110	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Hartshorn Variant	4	2	88	90	There is 1 map unit. Depth to bedrock is 32in (81cm). Series range is 30-60in (76-152cm).
	4	3	112	110	
	4	4	124	120	
	4	5	---	---	
	Open Ditch	2	94	95	
	Open Ditch	3	115	110	
	Open Ditch	4	125	120	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	
Haskins	4	2	49	50	
	4	3	70	70	
	4	4	86	85	
	4	5	99	100	
	Open Ditch	2	63	65	
	Open Ditch	3	82	80	
	Open Ditch	4	96	95	
	Open Ditch	5	106	100	
	Open Ditch	6	114	110	
	Open Ditch	7	120	120	
	Open Ditch	8	123	120	
Henshaw	4	2	94	95	Includes Fayette County HkA (dark variant).
	4	3	128	120	
	4	4	154	150	
	4	5	174	170	
	Open Ditch	2	110	110	
	Open Ditch	3	142	140	
	Open Ditch	4	164	160	
	Open Ditch	5	182	180	
	Open Ditch	6	194	190	
	Open Ditch	7	204	200	
	Open Ditch	8	210	210	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Holly	4	2	143	140	Does not include:
	4	3	190	190	Carroll County HkA (bedrock substratum)
	4	4	226	220	Columbiana County HkA (bedrock substratum)
	4	5	252	250	
	Open Ditch	2	150	150	
	Open Ditch	3	204	200	
	Open Ditch	4	236	230	
	Open Ditch	5	260	260	
	Open Ditch	6	278	270	
	Open Ditch	7	292	290	
	Open Ditch	8	301	300	
Holly, bedrock substratum	4	2	113	110	There are 2 map units. Depth to bedrock is 75in (191cm). Series range is 70-120in (178-305cm).
	4	3	154	150	
	4	4	182	180	
	4	5	205	200	
	Open Ditch	2	129	120	
	Open Ditch	3	166	160	
	Open Ditch	4	193	190	
	Open Ditch	5	213	210	
	Open Ditch	6	228	220	
	Open Ditch	7	238	230	
	Open Ditch	8	246	240	
Holton	4	2	231	230	
	4	3	302	300	
	4	4	354	350	
	4	5	393	390	
	Open Ditch	2	247	240	
	Open Ditch	3	316	310	
	Open Ditch	4	365	360	
	Open Ditch	5	402	400	
	Open Ditch	6	429	400	
	Open Ditch	7	450	400	
	Open Ditch	8	464	400	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Homer	4	2	366	360						
	4	3	474	400						
	4	4	552	400						
	4	5	611	400						
	Open Ditch	2	383	380						
	Open Ditch	3	488	400						
	Open Ditch	4	563	400						
	Open Ditch	5	620	400						
	Open Ditch	6	662	400						
	Open Ditch	7	693	400						
	Open Ditch	8	690	400						
Homeworth	4	2	52	50						
	4	3	74	75						
	4	4	90	90						
	4	5	104	100						
	Open Ditch	2	66	65						
	Open Ditch	3	86	85						
	Open Ditch	4	101	100						
	Open Ditch	5	111	110						
	Open Ditch	6	120	120						
	Open Ditch	7	125	120						
	Open Ditch	8	129	120						
Hornell	4	2	45	45						
	4	3	53	55						
	4	4	---	---						
	4	5	---	---						
	Open Ditch	2	47	45						
	Open Ditch	3	53	55						
	Open Ditch	4	---	---						
	Open Ditch	5	---	---						
	Open Ditch	6	---	---						
	Open Ditch	7	---	---						
	Open Ditch	8	---	---						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Hoytville	4	2	28	30	Does not include Van Wert County Hs (moderately shallow variant).
	4	3	41	40	
	4	4	52	50	
	4	5	61	60	
	Open Ditch	2	40	40	
	Open Ditch	3	52	50	
	Open Ditch	4	61	60	
	Open Ditch	5	68	70	
	Open Ditch	6	73	75	
	Open Ditch	7	77	75	
	Open Ditch	8	79	80	
Hoytville, moderately shallow variant	4	2	32	30	This is the moderately shallow variant from Van Wert County.
	4	3	37	35	
	4	4	---	---	There is 1 map unit. Depth to bedrock is 32in (81cm). Series range is 20-40 inches (51-102cm).
	4	5	---	---	
	Open Ditch	2	34	35	
	Open Ditch	3	38	40	
	Open Ditch	4	---	---	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	
Hyatts	4	2	48	50	There are 2 map units. Depth to bedrock ranges from 46-58in (117-147cm). Series range is 40-60in (102-152cm).
	4	3	61	60	
	4	4	70	70	
	4	5	---	---	
	Open Ditch	2	53	55	
	Open Ditch	3	64	65	
	Open Ditch	4	70	70	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Iva	4	2	79	80						
	4	3	108	100						
	4	4	131	130						
	4	5	148	140						
	Open Ditch	2	94	95						
	Open Ditch	3	122	120						
	Open Ditch	4	141	140						
	Open Ditch	5	156	150						
	Open Ditch	6	167	160						
	Open Ditch	7	175	170						
	Open Ditch	8	181	180						
Jimtown	4	2	227	220	Does not include:					
	4	3	298	290	Mahoning County JuB (till substratum)					
	4	4	348	340	Stark County JuB (till substratum)					
	4	5	387	380						
	Open Ditch	2	243	240						
	Open Ditch	3	311	310						
	Open Ditch	4	360	360						
	Open Ditch	5	396	390						
	Open Ditch	6	423	400						
	Open Ditch	7	443	400						
	Open Ditch	8	457	400						
Jimtown, till substratum	4	2	90	90						
	4	3	123	120						
	4	4	148	140						
	4	5	167	160						
	Open Ditch	2	106	100						
	Open Ditch	3	137	130						
	Open Ditch	4	159	150						
	Open Ditch	5	175	170						
	Open Ditch	6	187	180						
	Open Ditch	7	196	190						
	Open Ditch	8	203	200						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Johnsburg	4	2	59	60						
	4	3	76	75						
	4	4	85	85						
	4	5	---	---						
	Open Ditch	2	65	65						
	Open Ditch	3	79	80						
	Open Ditch	4	86	85						
	Open Ditch	5	---	---						
	Open Ditch	6	---	---						
	Open Ditch	7	---	---						
	Open Ditch	8	---	---						
Joliet	4	2	---	---	NDDrain did not work. But it probably doesn't matter since range in depth to bedrock is 10-20in (25-51cm).					
	4	3	---	---						
	4	4	---	---						
	4	5	---	---						
	Open Ditch	2	---	---						
	Open Ditch	3	---	---						
	Open Ditch	4	---	---						
	Open Ditch	5	---	---						
	Open Ditch	6	---	---						
	Open Ditch	7	---	---						
	Open Ditch	8	---	---						
Kane	4	2	228	220						
	4	3	299	290						
	4	4	350	350						
	4	5	388	380						
	Open Ditch	2	244	240						
	Open Ditch	3	312	310						
	Open Ditch	4	361	360						
	Open Ditch	5	398	390						
	Open Ditch	6	424	400						
	Open Ditch	7	444	400						
	Open Ditch	8	458	400						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Kerston	4	2	103	100	Average of results from 5% sand/90% silt/5% clay and 25% sand/50% silt/25% clay.
	4	3	140	140	
	4	4	167	160	
	4	5	188	180	
	Open Ditch	2	120	120	
	Open Ditch	3	154	150	
	Open Ditch	4	178	170	
	Open Ditch	5	196	190	
	Open Ditch	6	210	210	
	Open Ditch	7	220	220	
	Open Ditch	8	227	220	
Kibbie	4	2	74	75	
	4	3	102	100	
	4	4	124	120	
	4	5	140	140	
	Open Ditch	2	89	90	
	Open Ditch	3	115	110	
	Open Ditch	4	134	130	
	Open Ditch	5	148	140	
	Open Ditch	6	159	150	
	Open Ditch	7	166	160	
	Open Ditch	8	171	170	
Killbuck	4	2	68	70	
	4	3	95	95	
	4	4	116	110	
	4	5	131	130	
	Open Ditch	2	83	85	
	Open Ditch	3	108	100	
	Open Ditch	4	125	120	
	Open Ditch	5	138	130	
	Open Ditch	6	148	140	
	Open Ditch	7	156	150	
	Open Ditch	8	160	160	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Kings Variant	4	2	21	20						
	4	3	33	35						
	4	4	42	40						
	4	5	49	50						
	Open Ditch	2	32	30						
	Open Ditch	3	43	45						
	Open Ditch	4	50	50						
	Open Ditch	5	56	55						
	Open Ditch	6	61	60						
	Open Ditch	7	64	65						
	Open Ditch	8	66	65						
Kingsville	4	2	196	190						
	4	3	258	250						
	4	4	302	300						
	4	5	338	330						
	Open Ditch	2	212	210						
	Open Ditch	3	272	270						
	Open Ditch	4	314	310						
	Open Ditch	5	346	340						
	Open Ditch	6	370	370						
	Open Ditch	7	387	380						
	Open Ditch	8	399	390						
Kokomo	4	2	41	40						
	4	3	59	60						
	4	4	73	75						
	4	5	84	85						
	Open Ditch	2	54	55						
	Open Ditch	3	71	70						
	Open Ditch	4	82	80						
	Open Ditch	5	92	90						
	Open Ditch	6	98	100						
	Open Ditch	7	104	100						
	Open Ditch	8	107	100						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Kyger	4	2	105	100						
	4	3	142	140						
	4	4	170	170						
	4	5	191	190						
	Open Ditch	2	121	120						
	Open Ditch	3	156	150						
	Open Ditch	4	180	180						
	Open Ditch	5	199	190						
	Open Ditch	6	213	210						
	Open Ditch	7	223	220						
	Open Ditch	8	230	230						
Lamberjack	4	2	118	110						
	4	3	160	160						
	4	4	190	190						
	4	5	213	210						
	Open Ditch	2	134	130						
	Open Ditch	3	173	170						
	Open Ditch	4	200	200						
	Open Ditch	5	221	220						
	Open Ditch	6	236	230						
	Open Ditch	7	248	240						
	Open Ditch	8	256	250						
Lamson	4	2	124	120						
	4	3	168	160						
	4	4	199	190						
	4	5	223	220						
	Open Ditch	2	141	140						
	Open Ditch	3	181	180						
	Open Ditch	4	209	200						
	Open Ditch	5	231	230						
	Open Ditch	6	247	240						
	Open Ditch	7	259	250						
	Open Ditch	8	266	260						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Latty	4	2	38	40						
	4	3	54	55						
	4	4	67	65						
	4	5	78	80						
	Open Ditch	2	50	50						
	Open Ditch	3	66	65						
	Open Ditch	4	77	75						
	Open Ditch	5	86	85						
	Open Ditch	6	92	90						
	Open Ditch	7	96	95						
	Open Ditch	8	99	100						
Lenawee	4	2	35	35	Includes Crawford Co. Lh and Huron Co. Lf (Lenawee Variant).					
	4	3	51	50						
	4	4	63	65						
	4	5	74	75						
	Open Ditch	2	48	50						
	Open Ditch	3	62	60						
	Open Ditch	4	73	75						
	Open Ditch	5	81	80						
	Open Ditch	6	87	85						
	Open Ditch	7	92	90						
	Open Ditch	8	94	95						
Library Variant	4	2	60	60	There is 1 map unit. Depth to bedrock is 60in (152cm). Series range is 40in + (102cm +).					
	4	3	84	85						
	4	4	102	100						
	4	5	117	110						
	Open Ditch	2	75	75						
	Open Ditch	3	97	95						
	Open Ditch	4	113	110						
	Open Ditch	5	125	120						
	Open Ditch	6	134	130						
	Open Ditch	7	140	140						
	Open Ditch	8	145	140						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Linwood	4	2	61	60	Linwood with 32% sand, 48% silt, and 20% clay in the muck surface layer. (Averages of the non-muck horizons underlying the muck horizons in all Ohio Linwood components.)
	4	3	85	85	
	4	4	103	100	
	4	5	118	110	
	Open Ditch	2	75	75	
	Open Ditch	3	97	95	
	Open Ditch	4	113	110	
	Open Ditch	5	125	120	
	Open Ditch	6	134	130	
	Open Ditch	7	141	140	
	Open Ditch	8	145	140	
Lippincott	4	2	307	300	
	4	3	400	400	
	4	4	466	400	
	4	5	516	400	
	Open Ditch	2	324	320	
	Open Ditch	3	414	400	
	Open Ditch	4	477	400	
	Open Ditch	5	525	400	
	Open Ditch	6	561	400	
	Open Ditch	7	588	400	
	Open Ditch	8	606	400	
Lockport	4	2	27	25	There is 1 map unit. Depth to bedrock is 38in (97cm). Series range is 28-40in (71-102cm).
	4	3	32	30	
	4	4	---	---	
	4	5	---	---	
	Open Ditch	2	29	30	
	Open Ditch	3	32	30	
	Open Ditch	4	---	---	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Lorain	4	2	34	35	Includes Carroll Co. Lo and Stark Co. Lw (silty substratum).
	4	3	48	50	
	4	4	61	60	Does not include:
	4	5	70	70	Lorain County Ls (sandy substratum)
	Open Ditch	2	46	45	Trumbull County Lp (loamy substratum)
	Open Ditch	3	60	60	
	Open Ditch	4	70	70	
	Open Ditch	5	78	80	
	Open Ditch	6	84	85	
	Open Ditch	7	88	90	
	Open Ditch	8	90	90	
Lorain, sandy substratum loamy substratum	4	2	110	110	
	4	3	148	140	
	4	4	178	170	
	4	5	199	190	
	Open Ditch	2	126	120	
	Open Ditch	3	162	160	
	Open Ditch	4	188	180	
	Open Ditch	5	207	200	
	Open Ditch	6	222	220	
	Open Ditch	7	232	230	
	Open Ditch	8	239	230	
Luray	4	2	51	50	Does not include Stark County Lz (gravelly subsoil variant).
	4	3	72	70	
	4	4	88	90	
	4	5	102	100	
	Open Ditch	2	65	65	
	Open Ditch	3	84	85	
	Open Ditch	4	99	100	
	Open Ditch	5	109	100	
	Open Ditch	6	117	110	
	Open Ditch	7	123	120	
	Open Ditch	8	127	120	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Luray, gravelly subsoil variant	4	2	156	150						
	4	3	209	200						
	4	4	246	240						
	4	5	274	270						
	Open Ditch	2	173	170						
	Open Ditch	3	222	220						
	Open Ditch	4	257	250						
	Open Ditch	5	283	280						
	Open Ditch	6	302	300						
	Open Ditch	7	317	310						
	Open Ditch	8	327	320						
Mahalasville	4	2	59	60						
	4	3	83	85						
	4	4	102	100						
	4	5	116	110						
	Open Ditch	2	74	75						
	Open Ditch	3	96	95						
	Open Ditch	4	112	110						
	Open Ditch	5	123	120						
	Open Ditch	6	132	130						
	Open Ditch	7	138	130						
	Open Ditch	8	143	140						
Mahoning	4	2	35	35	Does not include:					
	4	3	49	50	Geauga County MsA, MsB (shale substratum)					
	4	4	62	60	Lake County MhB (shale substratum)					
	4	5	72	70	Lorain County MhA (sandstone substratum)					
	Open Ditch	2	47	45	Medina County MlA, MlB (sandstone substratum)					
	Open Ditch	3	61	60	Summit County MlB (sandstone substratum)					
	Open Ditch	4	71	70	Trumbull County MhA, MhB, MhC (shale substratum)					
	Open Ditch	5	79	80						
	Open Ditch	6	85	85						
	Open Ditch	7	90	90						
	Open Ditch	8	93	95						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Mahoning, shale substratum sandstone substratum	4	2	38	40	Depth to bedrock ranges from 40-60in (102-152cm).
	4	3	50	50	
	4	4	57	55	
	4	5	---	---	
	Open Ditch	2	43	45	
	Open Ditch	3	53	55	
	Open Ditch	4	58	60	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	
Marengo	4	2	33	35	
	4	3	48	50	
	4	4	60	60	
	4	5	70	70	
	Open Ditch	2	46	45	
	Open Ditch	3	59	60	
	Open Ditch	4	70	70	
	Open Ditch	5	77	75	
	Open Ditch	6	83	85	
	Open Ditch	7	88	90	
	Open Ditch	8	90	90	
Martisco	4	2	113	110	Does not include Logan County Mc (Martisco Variant).
	4	3	154	150	
	4	4	183	180	Martisco with 26% sand, 59% silt, and 15% clay in the muck surface layer in Williams County Ma. (Averages of the non-muck horizons in the 2 Martisco components.)
	4	5	205	200	
	Open Ditch	2	130	130	
	Open Ditch	3	167	160	
	Open Ditch	4	194	190	
	Open Ditch	5	214	210	
	Open Ditch	6	228	220	
	Open Ditch	7	240	240	
	Open Ditch	8	246	240	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Martisco Variant	4	2	159	150						
	4	3	213	210						
	4	4	251	250						
	4	5	280	280						
	Open Ditch	2	176	170						
	Open Ditch	3	226	220						
	Open Ditch	4	261	260						
	Open Ditch	5	288	280						
	Open Ditch	6	308	300						
	Open Ditch	7	323	320						
	Open Ditch	8	333	330						
McGary	4	2	33	35	Does not include Adams County McA (bedrock substratum variant).					
	4	3	48	50						
	4	4	60	60						
	4	5	70	70						
	Open Ditch	2	46	45						
	Open Ditch	3	60	60						
	Open Ditch	4	70	70						
	Open Ditch	5	78	80						
	Open Ditch	6	83	85						
	Open Ditch	7	88	90						
	Open Ditch	8	90	90						
McGary Variant	4	2	41	40	This is the bedrock substratum variant from Adams County. There is 1 map unit. Depth to bedrock is 57in (145cm). Series range is 40-60in (102-152cm).					
	4	3	54	55						
	4	4	60	60						
	4	5	---	---						
	Open Ditch	2	46	45						
	Open Ditch	3	56	55						
	Open Ditch	4	61	60						
	Open Ditch	5	---	---						
	Open Ditch	6	---	---						
	Open Ditch	7	---	---						
	Open Ditch	8	---	---						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
McGuffey	4	2	138	130	McGuffey with 5.5% sand, 47% silt, and 47.5% clay in the muck surface layer, like the 2 mineral horizons underlying the muck.
	4	3	186	180	
	4	4	220	220	
	4	5	246	240	
	Open Ditch	2	155	150	
	Open Ditch	3	199	190	
	Open Ditch	4	230	230	
	Open Ditch	5	254	250	
	Open Ditch	6	272	270	
	Open Ditch	7	285	280	
	Open Ditch	8	293	290	
Melvin	4	2	90	90	
	4	3	123	120	
	4	4	148	140	
	4	5	166	160	
	Open Ditch	2	106	100	
	Open Ditch	3	136	130	
	Open Ditch	4	158	150	
	Open Ditch	5	174	170	
	Open Ditch	6	187	180	
	Open Ditch	7	196	190	
	Open Ditch	8	202	200	
Mermill	4	2	38	40	Includes Sandusky County Mp (Mermill Variant).
	4	3	55	55	
	4	4	68	70	Does not include Henry County Mg (stratified substratum).
	4	5	79	80	
	Open Ditch	2	51	50	
	Open Ditch	3	67	65	
	Open Ditch	4	78	80	
	Open Ditch	5	87	85	
	Open Ditch	6	93	95	
	Open Ditch	7	98	100	
	Open Ditch	8	101	100	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Mermill, stratified substratum	4	2	57	55						
	4	3	80	80						
	4	4	97	95						
	4	5	111	110						
	Open Ditch	2	71	70						
	Open Ditch	3	92	90						
	Open Ditch	4	107	100						
	Open Ditch	5	119	110						
	Open Ditch	6	127	120						
	Open Ditch	7	134	130						
	Open Ditch	8	138	130						
Metamora	4	2	52	50						
	4	3	73	75						
	4	4	90	90						
	4	5	103	100						
	Open Ditch	2	66	65						
	Open Ditch	3	86	85						
	Open Ditch	4	100	100						
	Open Ditch	5	111	110						
	Open Ditch	6	119	110						
	Open Ditch	7	124	120						
	Open Ditch	8	128	120						
Milford	4	2	36	35	Does not include:					
	4	3	52	50	Clark County Mo (sandy substratum)					
	4	4	65	65	Darke County MsA (gravelly substratum)					
	4	5	76	75	Preble County MrA (gravelly substratum)					
	Open Ditch	2	49	50						
	Open Ditch	3	64	65						
	Open Ditch	4	75	75						
	Open Ditch	5	83	85						
	Open Ditch	6	89	90						
	Open Ditch	7	94	95						
	Open Ditch	8	96	95						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Milford, sandy substratum	4	2	86	85						
	4	3	118	110						
	4	4	142	140						
	4	5	160	160						
	Open Ditch	2	102	100						
	Open Ditch	3	131	130						
	Open Ditch	4	152	150						
	Open Ditch	5	168	160						
	Open Ditch	6	180	180						
	Open Ditch	7	188	180						
	Open Ditch	8	194	190						
Milford, gravelly substratum	4	2	181	180						
	4	3	240	240						
	4	4	282	280						
	4	5	314	310						
	Open Ditch	2	198	190						
	Open Ditch	3	254	250						
	Open Ditch	4	293	290						
	Open Ditch	5	323	320						
	Open Ditch	6	345	340						
	Open Ditch	7	362	360						
	Open Ditch	8	373	370						
Mill	4	2	53	55						
	4	3	75	75						
	4	4	92	90						
	4	5	105	100						
	Open Ditch	2	67	65						
	Open Ditch	3	87	85						
	Open Ditch	4	102	100						
	Open Ditch	5	113	110						
	Open Ditch	6	121	120						
	Open Ditch	7	127	120						
	Open Ditch	8	131	130						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Millgrove	4	2	175	170	Does not include:
	4	3	232	230	Paulding County Mg (till substratum)
	4	4	273	270	Putnam County Mh (till substratum)
	4	5	304	300	
	Open Ditch	2	192	190	I left in 3 Millgrove components with very high LE. (Defiance County Mg, Williams County Mh and Mk. I think these are really high because bottom horizon with really high Ksat begins at 79cm.)
	Open Ditch	3	245	240	
	Open Ditch	4	284	280	
	Open Ditch	5	312	310	
	Open Ditch	6	334	330	
	Open Ditch	7	350	350	
	Open Ditch	8	361	360	
Millgrove, till substratum	4	2	103	100	
	4	3	139	130	
	4	4	167	160	
	4	5	188	180	
	Open Ditch	2	119	110	
	Open Ditch	3	153	150	
	Open Ditch	4	177	170	
	Open Ditch	5	196	190	
	Open Ditch	6	209	200	
	Open Ditch	7	219	210	
	Open Ditch	8	226	220	
Millsdale	4	2	33	35	Depth to bedrock ranges from 20-40in (51-102cm).
	4	3	40	40	
	4	4	---	---	
	4	5	---	---	
	Open Ditch	2	36	35	
	Open Ditch	3	40	40	
	Open Ditch	4	---	---	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Miner	4	2	32	30						
	4	3	47	45						
	4	4	58	60						
	4	5	68	70						
	Open Ditch	2	44	45						
	Open Ditch	3	58	60						
	Open Ditch	4	68	70						
	Open Ditch	5	75	75						
	Open Ditch	6	81	80						
	Open Ditch	7	85	85						
	Open Ditch	8	88	90						
Minoa	4	2	83	85						
	4	3	114	110						
	4	4	138	130						
	4	5	156	150						
	Open Ditch	2	99	100						
	Open Ditch	3	128	120						
	Open Ditch	4	148	140						
	Open Ditch	5	163	160						
	Open Ditch	6	175	170						
	Open Ditch	7	184	180						
	Open Ditch	8	189	180						
Minster	4	2	30	30	Does not include gravelly substratum or till substratum.					
	4	3	44	45						
	4	4	55	55						
	4	5	65	65						
	Open Ditch	2	42	40						
	Open Ditch	3	55	55						
	Open Ditch	4	65	65						
	Open Ditch	5	72	70						
	Open Ditch	6	77	75						
	Open Ditch	7	81	80						
	Open Ditch	8	84	85						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Minster, gravelly substratum	4	2	71	70						
	4	3	99	100						
	4	4	120	120						
	4	5	136	130						
	Open Ditch	2	86	85						
	Open Ditch	3	112	110						
	Open Ditch	4	130	130						
	Open Ditch	5	143	140						
	Open Ditch	6	154	150						
	Open Ditch	7	161	160						
	Open Ditch	8	166	160						
Minster, till substratum	4	2	26	25						
	4	3	39	40						
	4	4	49	50						
	4	5	57	55						
	Open Ditch	2	37	35						
	Open Ditch	3	49	50						
	Open Ditch	4	58	60						
	Open Ditch	5	64	65						
	Open Ditch	6	69	70						
	Open Ditch	7	73	75						
	Open Ditch	8	75	75						
Mitiwanga	4	2	47	45	Depth to bedrock ranges from 20-40in (51-102cm).					
	4	3	55	55						
	4	4	---	---						
	4	5	---	---						
	Open Ditch	2	49	50						
	Open Ditch	3	55	55						
	Open Ditch	4	---	---						
	Open Ditch	5	---	---						
	Open Ditch	6	---	---						
	Open Ditch	7	---	---						
	Open Ditch	8	---	---						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Montgomery	4	2	34	35	Includes Pike County Mr (Montgomery Variant).
	4	3	50	50	
	4	4	61	60	
	4	5	72	70	
	Open Ditch	2	46	45	
	Open Ditch	3	61	60	
	Open Ditch	4	71	70	
	Open Ditch	5	79	80	
	Open Ditch	6	85	85	
	Open Ditch	7	89	90	
	Open Ditch	8	92	90	
Muskego	4	2	226	220	Muskego with 5% sand, 68.5% silt, and 26.5% clay in the muck layers. (Averages of the non-muck horizons underlying the muck horizons in all Ohio Muskego components.)
	4	3	296	290	
	4	4	347	340	
	4	5	385	380	
	Open Ditch	2	242	240	
	Open Ditch	3	310	310	
	Open Ditch	4	358	350	
	Open Ditch	5	394	390	
	Open Ditch	6	421	400	
	Open Ditch	7	441	400	
	Open Ditch	8	454	400	
Nappanee	4	2	34	35	
	4	3	50	50	
	4	4	62	60	
	4	5	72	70	
	Open Ditch	2	47	45	
	Open Ditch	3	61	60	
	Open Ditch	4	71	70	
	Open Ditch	5	79	80	
	Open Ditch	6	85	85	
	Open Ditch	7	89	90	
	Open Ditch	8	92	90	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Newark	4	2	86	85	Does not include:
	4	3	118	110	Belmont County Nn (bedrock substratum variant)
	4	4	143	140	Monroe County No (bedrock substratum variant)
	4	5	161	160	
	Open Ditch	2	102	100	
	Open Ditch	3	132	130	
	Open Ditch	4	153	150	
	Open Ditch	5	169	160	
	Open Ditch	6	181	180	
	Open Ditch	7	189	180	
	Open Ditch	8	195	190	
Newark Variant	4	2	253	250	This is the bedrock substratum variant from Belmont and Monroe Counties.
	4	3	319	310	
	4	4	359	350	
	4	5	381	380	There are 2 map units. Depth to bedrock is 45in (114cm). Series range is 40-72in (102-183cm).
	Open Ditch	2	261	260	
	Open Ditch	3	324	320	
	Open Ditch	4	362	360	
	Open Ditch	5	382	380	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	
Odell	4	2	44	45	
	4	3	62	60	
	4	4	76	75	
	4	5	88	90	
	Open Ditch	2	57	55	
	Open Ditch	3	74	75	
	Open Ditch	4	86	86	
	Open Ditch	5	95	95	
	Open Ditch	6	102	100	
	Open Ditch	7	107	100	
	Open Ditch	8	111	110	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Olentangy	4	2	74	75						
	4	3	102	100						
	4	4	124	120						
	4	5	140	140						
	Open Ditch	2	90	90						
	Open Ditch	3	116	110						
	Open Ditch	4	134	130						
	Open Ditch	5	148	140						
	Open Ditch	6	159	150						
	Open Ditch	7	166	160						
	Open Ditch	8	172	170						
Olmsted	4	2	227	220	Does not include Lorain County On (sandstone substratum).					
	4	3	298	290						
	4	4	349	340						
	4	5	388	380						
	Open Ditch	2	244	240						
	Open Ditch	3	312	310						
	Open Ditch	4	360	360						
	Open Ditch	5	396	390						
	Open Ditch	6	424	400						
	Open Ditch	7	444	400						
	Open Ditch	8	457	400						
Olmsted, sandstone substratum	4	2	109	100	There is 1 map unit. Depth to bedrock ranges from 40-60in (102-152cm).					
	4	3	137	130						
	4	4	152	150						
	4	5	---	---						
	Open Ditch	2	115	110						
	Open Ditch	3	140	140						
	Open Ditch	4	153	150						
	Open Ditch	5	---	---						
	Open Ditch	6	---	---						
	Open Ditch	7	---	---						
	Open Ditch	8	---	---						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Orrville	4	2	124	120	Does not include:
	4	3	166	160	Ashland County Os (bedrock substratum variant)
	4	4	198	190	Erie County OpA, OrA (bedrock substratum)
	4	5	222	220	Huron County OnA, OpA (bedrock substratum)
	Open Ditch	2	140	140	Medina County Os (bedrock substratum)
	Open Ditch	3	180	180	Richland County Or (bedrock substratum variant)
	Open Ditch	4	208	200	
	Open Ditch	5	229	220	
	Open Ditch	6	246	240	
	Open Ditch	7	257	250	
	Open Ditch	8	265	260	
Orrville, bedrock substratum bedrock substratum variants	4	2	105	100	Includes all variant and bedrock substratum map units:
	4	3	137	130	Ashland County Os - bedrock at 20-40in (51-102cm)
	4	4	158	150	Erie County OpA, OrA - bedrock at 60-80in (152-203cm)
	4	5	172	170	Huron County OnA, OpA - bedrock at 60-80in (152-203cm)
	Open Ditch	2	115	110	Medina County Os - bedrock at 40-60in (102-152cm)
	Open Ditch	3	144	140	Richland County Or - bedrock at 20-40in (51-102cm)
	Open Ditch	4	162	160	
	Open Ditch	5	173	170	
	Open Ditch	6	179	170	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	
Painesville	4	2	56	55	
	4	3	78	80	
	4	4	96	90	
	4	5	109	100	
	Open Ditch	2	70	70	
	Open Ditch	3	91	90	
	Open Ditch	4	106	100	
	Open Ditch	5	117	110	
	Open Ditch	6	126	120	
	Open Ditch	7	132	130	
	Open Ditch	8	136	130	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Pandora	4	2	32	30						
	4	3	46	45						
	4	4	57	55						
	4	5	67	65						
	Open Ditch	2	44	45						
	Open Ditch	3	57	55						
	Open Ditch	4	67	65						
	Open Ditch	5	74	75						
	Open Ditch	6	80	80						
	Open Ditch	7	84	85						
	Open Ditch	8	87	85						
Papakating	4	2	70	70						
	4	3	96	95						
	4	4	118	110						
	4	5	134	130						
	Open Ditch	2	84	85						
	Open Ditch	3	110	110						
	Open Ditch	4	128	120						
	Open Ditch	5	140	140						
	Open Ditch	6	151	150						
	Open Ditch	7	158	150						
	Open Ditch	8	163	160						
Patton	4	2	76	75	Includes Logan County Pc (Patton Variant).					
	4	3	105	100						
	4	4	127	120						
	4	5	144	140						
	Open Ditch	2	91	90						
	Open Ditch	3	118	110						
	Open Ditch	4	137	130						
	Open Ditch	5	151	150						
	Open Ditch	6	162	160						
	Open Ditch	7	170	170						
	Open Ditch	8	175	170						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Paulding	4	2	41	40						
	4	3	59	60						
	4	4	72	70						
	4	5	84	85						
	Open Ditch	2	54	55						
	Open Ditch	3	71	70						
	Open Ditch	4	82	80						
	Open Ditch	5	91	90						
	Open Ditch	6	98	100						
	Open Ditch	7	102	100						
	Open Ditch	8	106	100						
Peoga	4	2	72	70						
	4	3	99	100						
	4	4	120	120						
	4	5	136	130						
	Open Ditch	2	86	85						
	Open Ditch	3	112	110						
	Open Ditch	4	130	130						
	Open Ditch	5	144	140						
	Open Ditch	6	154	150						
	Open Ditch	7	161	160						
	Open Ditch	8	166	160						
Pewamo	4	2	33	35	Includes Hardin County Po (muck surface variant).					
	4	3	49	50						
	4	4	60	60						
	4	5	70	70						
	Open Ditch	2	45	45						
	Open Ditch	3	60	60						
	Open Ditch	4	70	70						
	Open Ditch	5	78	80						
	Open Ditch	6	83	85						
	Open Ditch	7	87	85						
	Open Ditch	8	90	90						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Pinnebog	4	2	105	100	Average of results from 5% sand/90% silt/5% clay and 25% sand/50% silt/25% clay.
	4	3	142	140	
	4	4	170	170	
	4	5	191	190	
	Open Ditch	2	121	120	
	Open Ditch	3	155	150	
	Open Ditch	4	180	180	
	Open Ditch	5	199	190	
	Open Ditch	6	213	210	
	Open Ditch	7	223	220	
	Open Ditch	8	230	230	
Piopolis	4	2	48	50	
	4	3	68	70	
	4	4	84	85	
	4	5	97	95	
	Open Ditch	2	62	60	
	Open Ditch	3	80	80	
	Open Ditch	4	94	95	
	Open Ditch	5	104	100	
	Open Ditch	6	111	110	
	Open Ditch	7	117	110	
	Open Ditch	8	121	120	
Platea	4	2	46	45	
	4	3	66	65	
	4	4	81	80	
	4	5	93	95	
	Open Ditch	2	60	60	
	Open Ditch	3	78	80	
	Open Ditch	4	91	90	
	Open Ditch	5	101	100	
	Open Ditch	6	108	100	
	Open Ditch	7	113	110	
	Open Ditch	8	117	110	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Plumbrook	4	2	71	70						
	4	3	99	100						
	4	4	120	120						
	4	5	136	130						
	Open Ditch	2	87	85						
	Open Ditch	3	112	110						
	Open Ditch	4	130	130						
	Open Ditch	5	144	140						
	Open Ditch	6	154	150						
	Open Ditch	7	161	160						
	Open Ditch	8	166	160						
Prout	4	2	40	40	There are 2 map units. Depth to bedrock is 26in (66cm). Series range is 20-40in (51-102cm).					
	4	3	47	45						
	4	4	---	---						
	4	5	---	---						
	Open Ditch	2	42	40						
	Open Ditch	3	47	45						
	Open Ditch	4	---	---						
	Open Ditch	5	---	---						
	Open Ditch	6	---	---						
	Open Ditch	7	---	---						
	Open Ditch	8	---	---						
Purdy Variant	4	2	50	50						
	4	3	71	70						
	4	4	87	85						
	4	5	100	100						
	Open Ditch	2	64	65						
	Open Ditch	3	83	85						
	Open Ditch	4	97	95						
	Open Ditch	5	108	100						
	Open Ditch	6	115	110						
	Open Ditch	7	121	120						
	Open Ditch	8	125	120						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Pyrmont	4	2	35	35						
	4	3	51	50						
	4	4	63	65						
	4	5	74	75						
	Open Ditch	2	48	50						
	Open Ditch	3	62	60						
	Open Ditch	4	73	75						
	Open Ditch	5	81	80						
	Open Ditch	6	87	85						
	Open Ditch	7	92	90						
	Open Ditch	8	94	95						
Ragsdale	4	2	74	75						
	4	3	103	100						
	4	4	124	120						
	4	5	141	140						
	Open Ditch	2	90	90						
	Open Ditch	3	116	110						
	Open Ditch	4	134	130						
	Open Ditch	5	148	140						
	Open Ditch	6	159	150						
	Open Ditch	7	167	160						
	Open Ditch	8	172	170						
Randolph	4	2	41	40	Depth to bedrock ranges from 20-40in (51-102cm).					
	4	3	48	50						
	4	4	---	---						
	4	5	---	---						
	Open Ditch	2	43	45						
	Open Ditch	3	49	50						
	Open Ditch	4	---	---						
	Open Ditch	5	---	---						
	Open Ditch	6	---	---						
	Open Ditch	7	---	---						
	Open Ditch	8	---	---						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Raub	4	2	48	50						
	4	3	68	70						
	4	4	84	85						
	4	5	97	95						
	Open Ditch	2	62	60						
	Open Ditch	3	81	80						
	Open Ditch	4	94	95						
	Open Ditch	5	104	100						
	Open Ditch	6	112	110						
	Open Ditch	7	117	110						
	Open Ditch	8	121	120						
Ravenna	4	2	57	55						
	4	3	79	80						
	4	4	97	95						
	4	5	111	110						
	Open Ditch	2	71	70						
	Open Ditch	3	92	90						
	Open Ditch	4	107	100						
	Open Ditch	5	119	110						
	Open Ditch	6	127	120						
	Open Ditch	7	133	130						
	Open Ditch	8	137	130						
Red Hook	4	2	180	180						
	4	3	239	230						
	4	4	281	280						
	4	5	313	310						
	Open Ditch	2	197	190						
	Open Ditch	3	252	250						
	Open Ditch	4	292	290						
	Open Ditch	5	321	320						
	Open Ditch	6	343	340						
	Open Ditch	7	360	360						
	Open Ditch	8	371	370						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Reesville	4	2	62	60						
	4	3	86	85						
	4	4	104	100						
	4	5	120	120						
	Open Ditch	2	76	75						
	Open Ditch	3	98	100						
	Open Ditch	4	115	110						
	Open Ditch	5	127	120						
	Open Ditch	6	136	130						
	Open Ditch	7	143	140						
	Open Ditch	8	148	140						
Remsen	4	2	38	40						
	4	3	55	55						
	4	4	68	70						
	4	5	79	80						
	Open Ditch	2	51	50						
	Open Ditch	3	66	65						
	Open Ditch	4	78	80						
	Open Ditch	5	86	85						
	Open Ditch	6	93	95						
	Open Ditch	7	97	95						
	Open Ditch	8	100	100						
Rensselaer	4	2	108	100	Does not include:					
	4	3	147	140	Allen County ReA (till substratum)					
	4	4	175	170	Hancock County RhA (till substratum)					
	4	5	197	190	Putnam County RhA (till substratum)					
	Open Ditch	2	125	120						
	Open Ditch	3	161	160						
	Open Ditch	4	186	180						
	Open Ditch	5	205	200						
	Open Ditch	6	219	210						
	Open Ditch	7	230	230						
	Open Ditch	8	237	230						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Rensselaer, till substratum	4	2	71	70						
	4	3	99	100						
	4	4	120	120						
	4	5	136	130						
	Open Ditch	2	87	85						
	Open Ditch	3	112	110						
	Open Ditch	4	130	130						
	Open Ditch	5	144	140						
	Open Ditch	6	154	150						
	Open Ditch	7	161	160						
	Open Ditch	8	167	160						
Rimer	4	2	64	65	Includes Hancock County RoA (deep phase).					
	4	3	89	90						
	4	4	108	100						
	4	5	123	120						
	Open Ditch	2	78	80						
	Open Ditch	3	102	100						
	Open Ditch	4	118	110						
	Open Ditch	5	130	130						
	Open Ditch	6	140	140						
	Open Ditch	7	147	140						
	Open Ditch	8	151	150						
Risingsun	4	2	126	120	Risingsun with 43% sand, 31% silt, and 26% clay in the muck surface layers. (Weighted averages of the non-muck horizons underlying the muck horizons in all Ohio Risingsun components.)					
	4	3	171	170						
	4	4	202	200						
	4	5	226	220						
	Open Ditch	2	143	140						
	Open Ditch	3	184	180						
	Open Ditch	4	212	210						
	Open Ditch	5	234	230						
	Open Ditch	6	251	250						
	Open Ditch	7	263	260						
	Open Ditch	8	271	270						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Rockmill	4	2	60	60	Rockmill with 12% sand, 63% silt, and 25% clay in the muck layers. (Averages of the mineral horizons overlying the muck horizons in all Ohio Rockmill components.)
	4	3	84	80	
	4	4	102	100	
	4	5	118	110	
	Open Ditch	2	75	75	
	Open Ditch	3	97	95	
	Open Ditch	4	112	110	
	Open Ditch	5	124	120	
	Open Ditch	6	134	130	
	Open Ditch	7	140	140	
	Open Ditch	8	144	140	
Rollersville	4	2	90	90	
	4	3	124	120	
	4	4	148	140	
	4	5	168	160	
	Open Ditch	2	106	100	
	Open Ditch	3	137	130	
	Open Ditch	4	159	150	
	Open Ditch	5	176	170	
	Open Ditch	6	188	180	
	Open Ditch	7	196	190	
	Open Ditch	8	203	200	
Roselms	4	2	46	45	
	4	3	65	65	
	4	4	80	80	
	4	5	92	90	
	Open Ditch	2	59	60	
	Open Ditch	3	77	75	
	Open Ditch	4	90	90	
	Open Ditch	5	100	100	
	Open Ditch	6	107	100	
	Open Ditch	7	112	110	
	Open Ditch	8	116	110	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Roundhead	4	2	100	100	Roundhead with 23% sand, 53% silt, and 24% clay in the muck surface layers. (Averages of the mineral horizons underlying the muck horizons in all Ohio Roundhead components.)
	4	3	136	130	
	4	4	163	160	
	4	5	183	180	
	Open Ditch	2	116	110	
	Open Ditch	3	150	150	
	Open Ditch	4	173	170	
	Open Ditch	5	191	190	
	Open Ditch	6	205	200	
	Open Ditch	7	214	210	
	Open Ditch	8	221	220	
Sandusky	4	2	100	100	
	4	3	137	130	
	4	4	164	160	
	4	5	184	180	
	Open Ditch	2	116	110	
	Open Ditch	3	150	150	
	Open Ditch	4	174	170	
	Open Ditch	5	192	190	
	Open Ditch	6	206	200	
	Open Ditch	7	216	210	
	Open Ditch	8	222	220	
Sarahsville	4	2	32	30	
	4	3	47	45	
	4	4	59	60	
	4	5	68	70	
	Open Ditch	2	44	45	
	Open Ditch	3	58	60	
	Open Ditch	4	68	70	
	Open Ditch	5	76	75	
	Open Ditch	6	82	80	
	Open Ditch	7	85	85	
	Open Ditch	8	88	90	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Saranac	4	2	38	40	Includes Allen County ScA, Auglaize County Sc, and Van Wert County SbA (till substratum).
	4	3	55	55	
	4	4	68	70	
	4	5	79	80	
	Open Ditch	2	51	50	
	Open Ditch	3	66	65	
	Open Ditch	4	78	80	
	Open Ditch	5	86	85	
	Open Ditch	6	93	95	
	Open Ditch	7	97	95	
	Open Ditch	8	100	100	
Savona	4	2	494	400	
	4	3	636	400	
	4	4	739	400	
	4	5	817	400	
	Open Ditch	2	511	400	
	Open Ditch	3	651	400	
	Open Ditch	4	750	400	
	Open Ditch	5	826	400	
	Open Ditch	6	882	400	
	Open Ditch	7	923	400	
	Open Ditch	8	952	400	
Schaffer	4	2	62	60	
	4	3	87	85	
	4	4	106	100	
	4	5	121	120	
	Open Ditch	2	77	75	
	Open Ditch	3	99	100	
	Open Ditch	4	116	110	
	Open Ditch	5	128	120	
	Open Ditch	6	137	130	
	Open Ditch	7	144	140	
	Open Ditch	8	148	140	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Sebring	4	2	61	60	Includes Portage Co. Sv and Trumbull Co. Sv (Sebring Variant).
	4	3	85	85	
	4	4	104	100	Does not include till substratum.
	4	5	119	110	Does not include Lorain County Sd (sandstone substratum)
	Open Ditch	2	75	75	
	Open Ditch	3	98	100	
	Open Ditch	4	114	110	
	Open Ditch	5	126	120	
	Open Ditch	6	135	130	
	Open Ditch	7	142	140	
	Open Ditch	8	146	140	
Sebring, till substratum	4	2	48	50	
	4	3	69	70	
	4	4	84	85	
	4	5	97	95	
	Open Ditch	2	62	60	
	Open Ditch	3	81	80	
	Open Ditch	4	94	95	
	Open Ditch	5	104	100	
	Open Ditch	6	112	110	
	Open Ditch	7	117	110	
	Open Ditch	8	121	120	
Sebring, sandstone substratum	4	2	51	50	There is 1 map unit. Depth to bedrock ranges from 40-60in (102-152cm).
	4	3	65	65	
	4	4	73	75	
	4	5	---	---	
	Open Ditch	2	56	55	
	Open Ditch	3	68	70	
	Open Ditch	4	74	75	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Secondcreek	4	2	38	40						
	4	3	55	55						
	4	4	68	70						
	4	5	79	80						
	Open Ditch	2	51	50						
	Open Ditch	3	67	65						
	Open Ditch	4	78	80						
	Open Ditch	5	86	85						
	Open Ditch	6	93	95						
	Open Ditch	7	98	100						
	Open Ditch	8	101	100						
Senecaville	4	2	91	90						
	4	3	125	120						
	4	4	150	150						
	4	5	169	160						
	Open Ditch	2	107	100						
	Open Ditch	3	138	130						
	Open Ditch	4	160	160						
	Open Ditch	5	177	170						
	Open Ditch	6	189	180						
	Open Ditch	7	199	190						
	Open Ditch	8	205	200						
Sheffield	4	2	37	35						
	4	3	54	55						
	4	4	66	65						
	4	5	77	75						
	Open Ditch	2	50	50						
	Open Ditch	3	65	65						
	Open Ditch	4	76	75						
	Open Ditch	5	84	85						
	Open Ditch	6	91	90						
	Open Ditch	7	95	95						
	Open Ditch	8	98	100						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Shoals	4	2	83	85	Does not include:
	4	3	114	110	Wood County SmA (mod. deep to limestone)
	4	4	138	130	till substratum
	4	5	155	150	till subsoil variant
	Open Ditch	2	98	100	coarse subsoil variant
	Open Ditch	3	127	120	
	Open Ditch	4	148	140	
	Open Ditch	5	163	160	
	Open Ditch	6	174	170	
	Open Ditch	7	183	180	
	Open Ditch	8	189	180	
Shoals, till substratum till subsoil variant	4	2	56	55	
	4	3	78	80	
	4	4	96	95	
	4	5	110	110	
	Open Ditch	2	70	70	
	Open Ditch	3	92	90	
	Open Ditch	4	106	100	
	Open Ditch	5	118	110	
	Open Ditch	6	126	120	
	Open Ditch	7	132	130	
	Open Ditch	8	136	130	
Shoals, moderately deep to limestone	4	2	33	35	There is 1 map unit. Depth to bedrock is 31in. Series range is 20-42in (51-107cm).
	4	3	40	40	
	4	4	---	---	
	4	5	---	---	
	Open Ditch	2	36	35	
	Open Ditch	3	41	40	
	Open Ditch	4	---	---	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Shoals, coarse subsoil variant	4	2	642	400						
	4	3	826	400						
	4	4	957	400						
	4	5	1056	400						
	Open Ditch	2	660	400						
	Open Ditch	3	841	400						
	Open Ditch	4	969	400						
	Open Ditch	5	1065	400						
	Open Ditch	6	1138	400						
	Open Ditch	7	1191	400						
	Open Ditch	8	1227	400						
Sleeth	4	2	298	290	Does not include loamy substratum.					
	4	3	388	380						
	4	4	453	400						
	4	5	502	400						
	Open Ditch	2	315	310						
	Open Ditch	3	402	400						
	Open Ditch	4	464	400						
	Open Ditch	5	510	400						
	Open Ditch	6	546	400						
	Open Ditch	7	571	400						
	Open Ditch	8	589	400						
Sleeth, loamy substratum	4	2	109	100						
	4	3	149	140						
	4	4	177	170						
	4	5	198	190						
	Open Ditch	2	126	120						
	Open Ditch	3	162	160						
	Open Ditch	4	187	180						
	Open Ditch	5	206	200						
	Open Ditch	6	221	220						
	Open Ditch	7	231	230						
	Open Ditch	8	239	230						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Sloan	4	2	97	95	Does not include:
	4	3	132	130	Champaign County Sv (gravelly subsoil variant)
	4	4	158	150	Wood County SmA (mod. deep to limestone)
	4	5	178	170	till substratum
	Open Ditch	2	113	110	sandy substratum
	Open Ditch	3	145	140	
	Open Ditch	4	168	160	
	Open Ditch	5	186	180	
	Open Ditch	6	199	190	
	Open Ditch	7	208	200	
	Open Ditch	8	215	210	
Sloan, till substratum	4	2	58	60	
	4	3	82	80	
	4	4	100	100	
	4	5	115	110	
	Open Ditch	2	73	75	
	Open Ditch	3	95	95	
	Open Ditch	4	110	110	
	Open Ditch	5	122	120	
	Open Ditch	6	131	130	
	Open Ditch	7	137	130	
	Open Ditch	8	142	140	
Sloan, sandy substratum	4	2	274	270	3 map units included here are not named "sandy substratum".
	4	3	357	350	But they look like sandy substratum.
	4	4	417	400	Champaign County So
	4	5	463	400	Highland County Sn
	Open Ditch	2	290	290	Union County Sn
	Open Ditch	3	371	370	
	Open Ditch	4	428	400	
	Open Ditch	5	472	400	
	Open Ditch	6	504	400	
	Open Ditch	7	528	400	
	Open Ditch	8	544	400	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Sloan, moderately deep to limestone	4	2	37	35	There is 1 map unit. Depth to bedrock is 24in. Series range is 20-42in (51-107cm).
	4	3	43	45	
	4	4	---	---	
	4	5	---	---	
	Open Ditch	2	39	40	
	Open Ditch	3	43	45	
	Open Ditch	4	---	---	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	
Sloan, gravelly subsoil variant	4	2	582	400	This is the gravelly subsoil variant from Champaign County.
	4	3	749	400	
	4	4	869	400	
	4	5	960	400	
	Open Ditch	2	600	400	
	Open Ditch	3	764	400	
	Open Ditch	4	881	400	
	Open Ditch	5	968	400	
	Open Ditch	6	1034	400	
	Open Ditch	7	1083	400	
	Open Ditch	8	1116	400	
Smothers	4	2	45	45	There are 2 map units. Depth to bedrock ranges from 30-33in. Series range is 20-40in (51-102cm).
	4	3	53	55	
	4	4	---	---	
	4	5	---	---	
	Open Ditch	2	48	50	
	Open Ditch	3	53	55	
	Open Ditch	4	---	---	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Sparta	4	2	202	200						
	4	3	266	260						
	4	4	312	310						
	4	5	348	340						
	Open Ditch	2	218	210						
	Open Ditch	3	280	280						
	Open Ditch	4	324	320						
	Open Ditch	5	356	350						
	Open Ditch	6	380	380						
	Open Ditch	7	398	390						
	Open Ditch	8	410	400						
Stafford	4	2	161	160	Includes Cuyahoga County St (Stafford Variant).					
	4	3	214	210						
	4	4	252	250						
	4	5	282	280						
	Open Ditch	2	178	170						
	Open Ditch	3	227	220						
	Open Ditch	4	263	260						
	Open Ditch	5	290	290						
	Open Ditch	6	310	310						
	Open Ditch	7	325	320						
	Open Ditch	8	335	330						
Stanhope	4	2	90	90						
	4	3	122	120						
	4	4	147	140						
	4	5	166	160						
	Open Ditch	2	105	100						
	Open Ditch	3	136	130						
	Open Ditch	4	157	150						
	Open Ditch	5	174	170						
	Open Ditch	6	186	180						
	Open Ditch	7	195	190						
	Open Ditch	8	201	200						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Stendal	4	2	65	65						
	4	3	90	90						
	4	4	110	110						
	4	5	125	120						
	Open Ditch	2	80	80						
	Open Ditch	3	104	100						
	Open Ditch	4	120	120						
	Open Ditch	5	133	130						
	Open Ditch	6	142	140						
	Open Ditch	7	149	140						
	Open Ditch	8	154	150						
Stokly	4	2	176	170						
	4	3	233	230						
	4	4	275	270						
	4	5	306	300						
	Open Ditch	2	193	190						
	Open Ditch	3	247	240						
	Open Ditch	4	286	280						
	Open Ditch	5	314	310						
	Open Ditch	6	336	330						
	Open Ditch	7	352	350						
	Open Ditch	8	363	360						
Stone	4	2	67	65	There are 2 map units. Depth to bedrock ranges from 42-44in (107-112cm). Series range is 40-60in (102-152cm).					
	4	3	85	85						
	4	4	95	95						
	4	5	---	---						
	Open Ditch	2	73	75						
	Open Ditch	3	88	90						
	Open Ditch	4	97	95						
	Open Ditch	5	---	---						
	Open Ditch	6	---	---						
	Open Ditch	7	---	---						
	Open Ditch	8	---	---						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Sugarvalley	4	2	78	80						
	4	3	108	100						
	4	4	130	130						
	4	5	148	140						
	Open Ditch	2	94	95						
	Open Ditch	3	121	120						
	Open Ditch	4	140	140						
	Open Ditch	5	156	150						
	Open Ditch	6	166	160						
	Open Ditch	7	174	170						
	Open Ditch	8	180	180						
Swanton	4	2	84	85						
	4	3	115	110						
	4	4	139	130						
	4	5	157	150						
	Open Ditch	2	99	100						
	Open Ditch	3	128	120						
	Open Ditch	4	149	140						
	Open Ditch	5	164	160						
	Open Ditch	6	176	170						
	Open Ditch	7	185	180						
	Open Ditch	8	190	190						
Taggart	4	2	77	75						
	4	3	106	100						
	4	4	129	120						
	4	5	146	140						
	Open Ditch	2	93	95						
	Open Ditch	3	120	120						
	Open Ditch	4	139	130						
	Open Ditch	5	154	150						
	Open Ditch	6	164	160						
	Open Ditch	7	172	170						
	Open Ditch	8	178	170						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Tedrow	4	2	169	160	Does not include:
	4	3	225	220	Henry County RhB (till substratum)
	4	4	265	260	Wood County RfA, RfB (till substratum)
	4	5	295	290	Henry County TeA (silty subsoil variant)
	Open Ditch	2	186	180	
	Open Ditch	3	238	230	
	Open Ditch	4	276	270	
	Open Ditch	5	304	300	
	Open Ditch	6	325	320	
	Open Ditch	7	340	340	
	Open Ditch	8	350	350	
Tedrow, till substratum silty subsoil variant	4	2	104	100	
	4	3	141	140	
	4	4	169	160	
	4	5	190	190	
	Open Ditch	2	120	120	
	Open Ditch	3	155	150	
	Open Ditch	4	179	170	
	Open Ditch	5	198	190	
	Open Ditch	6	212	210	
	Open Ditch	7	222	220	
	Open Ditch	8	229	220	
Tice	4	2	69	70	
	4	3	96	95	
	4	4	117	110	
	4	5	133	130	
	Open Ditch	2	84	85	
	Open Ditch	3	109	100	
	Open Ditch	4	127	120	
	Open Ditch	5	140	140	
	Open Ditch	6	150	150	
	Open Ditch	7	158	150	
	Open Ditch	8	162	160	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Tiderishi	4	2	46	45						
	4	3	65	65						
	4	4	80	80						
	4	5	92	90						
	Open Ditch	2	59	60						
	Open Ditch	3	77	75						
	Open Ditch	4	90	90						
	Open Ditch	5	99	100						
	Open Ditch	6	107	100						
	Open Ditch	7	112	110						
	Open Ditch	8	115	110						
Tiro	4	2	48	50						
	4	3	68	70						
	4	4	84	85						
	4	5	96	95						
	Open Ditch	2	62	60						
	Open Ditch	3	80	80						
	Open Ditch	4	94	95						
	Open Ditch	5	104	100						
	Open Ditch	6	111	110						
	Open Ditch	7	117	110						
	Open Ditch	8	120	120						
Toledo	4	2	33	35						
	4	3	48	50						
	4	4	60	60						
	4	5	70	70						
	Open Ditch	2	45	45						
	Open Ditch	3	59	60						
	Open Ditch	4	69	70						
	Open Ditch	5	77	75						
	Open Ditch	6	83	85						
	Open Ditch	7	86	85						
	Open Ditch	8	89	90						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Toussaint	4	2	31	30						
	4	3	45	45						
	4	4	56	55						
	4	5	66	65						
	Open Ditch	2	43	45						
	Open Ditch	3	56	55						
	Open Ditch	4	66	65						
	Open Ditch	5	73	75						
	Open Ditch	6	78	80						
	Open Ditch	7	82	80						
	Open Ditch	8	85	85						
Treaty	4	2	57	55						
	4	3	80	80						
	4	4	97	95						
	4	5	112	110						
	Open Ditch	2	71	70						
	Open Ditch	3	93	95						
	Open Ditch	4	108	100						
	Open Ditch	5	119	110						
	Open Ditch	6	127	120						
	Open Ditch	7	134	130						
	Open Ditch	8	138	130						
Trumbull	4	2	33	35						
	4	3	48	50						
	4	4	61	60						
	4	5	70	70						
	Open Ditch	2	46	45						
	Open Ditch	3	60	60						
	Open Ditch	4	70	70						
	Open Ditch	5	77	75						
	Open Ditch	6	83	85						
	Open Ditch	7	88	90						
	Open Ditch	8	90	90						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Tygart	4	2	70	70						
	4	3	97	95						
	4	4	118	110						
	4	5	133	130						
	Open Ditch	2	85	85						
	Open Ditch	3	110	110						
	Open Ditch	4	127	120						
	Open Ditch	5	141	140						
	Open Ditch	6	151	150						
	Open Ditch	7	158	150						
	Open Ditch	8	163	160						
Tyler	4	2	66	65						
	4	3	92	90						
	4	4	112	110						
	4	5	127	120						
	Open Ditch	2	81	80						
	Open Ditch	3	105	100						
	Open Ditch	4	122	120						
	Open Ditch	5	135	130						
	Open Ditch	6	144	140						
	Open Ditch	7	151	150						
	Open Ditch	8	156	150						
Valley	4	2	32	30						
	4	3	46	45						
	4	4	57	55						
	4	5	67	65						
	Open Ditch	2	44	45						
	Open Ditch	3	57	55						
	Open Ditch	4	67	65						
	Open Ditch	5	74	75						
	Open Ditch	6	80	80						
	Open Ditch	7	84	85						
	Open Ditch	8	87	85						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Vanlue	4	2	48	50						
	4	3	68	70						
	4	4	83	85						
	4	5	96	95						
	Open Ditch	2	62	60						
	Open Ditch	3	80	80						
	Open Ditch	4	93	95						
	Open Ditch	5	103	100						
	Open Ditch	6	111	110						
	Open Ditch	7	116	110						
	Open Ditch	8	120	120						
Venango	4	2	51	50						
	4	3	72	70						
	4	4	88	90						
	4	5	101	100						
	Open Ditch	2	65	65						
	Open Ditch	3	84	85						
	Open Ditch	4	98	100						
	Open Ditch	5	109	100						
	Open Ditch	6	116	110						
	Open Ditch	7	122	120						
	Open Ditch	8	126	120						
Wabasha	4	2	29	30	Does not include:					
	4	3	42	40	Putnam County Wb (moderately shallow variant)					
	4	4	53	55	Van Wert County Wb (moderately shallow variant)					
	4	5	61	60						
	Open Ditch	2	40	40						
	Open Ditch	3	53	55						
	Open Ditch	4	62	60						
	Open Ditch	5	69	70						
	Open Ditch	6	74	75						
	Open Ditch	7	78	80						
	Open Ditch	8	80	80						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Wabasha, moderately shallow variant	4	2	25	25	This is the moderately shallow variant from Putnam and Van Wert Counties.
	4	3	30	30	
	4	4	---	---	There are 2 map units. Depth to bedrock is 30in (76cm). Series range is 20-40in (51-102cm).
	4	5	---	---	
	Open Ditch	2	27	25	
	Open Ditch	3	30	30	
	Open Ditch	4	---	---	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	
Wadsworth	4	2	46	45	Does not include Stark County WbB (mod. deep to bedrock).
	4	3	65	65	
	4	4	80	80	
	4	5	92	90	
	Open Ditch	2	59	60	
	Open Ditch	3	77	75	
	Open Ditch	4	90	90	
	Open Ditch	5	99	100	
	Open Ditch	6	107	100	
	Open Ditch	7	112	110	
	Open Ditch	8	115	110	
Wadsworth, moderately deep	4	2	43	45	There is 1 map unit. Depth to bedrock is 40in (102cm). Series range is 20-48in (51-122cm).
	4	3	53	55	
	4	4	---	---	
	4	5	---	---	
	Open Ditch	2	46	45	
	Open Ditch	3	55	55	
	Open Ditch	4	---	---	
	Open Ditch	5	---	---	
	Open Ditch	6	---	---	
	Open Ditch	7	---	---	
	Open Ditch	8	---	---	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Wakeland	4	2	128	120						
	4	3	173	170						
	4	4	205	200						
	4	5	229	220						
	Open Ditch	2	145	140						
	Open Ditch	3	186	180						
	Open Ditch	4	215	210						
	Open Ditch	5	237	230						
	Open Ditch	6	254	250						
	Open Ditch	7	266	260						
	Open Ditch	8	274	270						
Wallkill	4	2	73	75	Wallkill with 26% sand, 47% silt, and 27% clay in the muck layers. (Averages of all non-muck horizons below the muck horizons in all Ohio Wallkill components.)					
	4	3	101	100						
	4	4	122	120						
	4	5	138	130						
	Open Ditch	2	88	90						
	Open Ditch	3	114	110	Includes all Wallkill and Wallkill Variant map units.					
	Open Ditch	4	132	130						
	Open Ditch	5	146	140						
	Open Ditch	6	156	150						
	Open Ditch	7	164	160						
	Open Ditch	8	169	160						
Warners	4	2	155	150	Warners with 40% sand, 43% silt, and 17% clay in the muck surface layers. (Averages of the non-muck horizons in all Ohio Warners components.)					
	4	3	205	200						
	4	4	242	240						
	4	5	271	270						
	Open Ditch	2	171	170						
	Open Ditch	3	219	210						
	Open Ditch	4	253	250						
	Open Ditch	5	279	270						
	Open Ditch	6	298	290						
	Open Ditch	7	312	310						
	Open Ditch	8	322	320						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)	
Wauseon	4	2	50	50	Does not include Wood County WnA (deep to till phase).
	4	3	71	70	
	4	4	87	85	
	4	5	100	100	
	Open Ditch	2	64	65	
	Open Ditch	3	83	85	
	Open Ditch	4	97	95	
	Open Ditch	5	107	100	
	Open Ditch	6	115	110	
	Open Ditch	7	121	120	
	Open Ditch	8	124	120	
Wauseon, deep to till	4	2	87	85	
	4	3	119	110	
	4	4	144	140	
	4	5	162	160	
	Open Ditch	2	103	100	
	Open Ditch	3	133	130	
	Open Ditch	4	154	150	
	Open Ditch	5	170	170	
	Open Ditch	6	182	180	
	Open Ditch	7	191	190	
	Open Ditch	8	197	190	
Wayland	4	2	102	100	
	4	3	137	130	
	4	4	165	160	
	4	5	185	180	
	Open Ditch	2	117	110	
	Open Ditch	3	151	150	
	Open Ditch	4	175	170	
	Open Ditch	5	193	190	
	Open Ditch	6	207	200	
	Open Ditch	7	217	210	
	Open Ditch	8	224	220	

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Waynetown	4	2	245	240						
	4	3	321	320						
	4	4	375	370						
	4	5	417	400						
	Open Ditch	2	262	260						
	Open Ditch	3	335	330						
	Open Ditch	4	386	380						
	Open Ditch	5	425	400						
	Open Ditch	6	455	400						
	Open Ditch	7	476	400						
	Open Ditch	8	491	400						
Weinbach --- selected counties ---	4	2	51	50	Weinbach in Lawrence, Scioto, and Tuscarawas Counties.					
	4	3	72	70	Not Weinbach in Stark or Summit Counties					
	4	4	89	90						
	4	5	102	100						
	Open Ditch	2	65	65						
	Open Ditch	3	85	85						
	Open Ditch	4	99	100						
	Open Ditch	5	110	110						
	Open Ditch	6	118	110						
	Open Ditch	7	123	120						
	Open Ditch	8	127	120						
Weinbach --- selected counties ---	4	2	256	250	Weinbach in Stark and Summit Counties.					
	4	3	335	330	Not Weinbach in Lawrence, Scioto, or Tuscarawas Counties.					
	4	4	391	390						
	4	5	435	400						
	Open Ditch	2	273	270						
	Open Ditch	3	349	340						
	Open Ditch	4	403	400						
	Open Ditch	5	443	400						
	Open Ditch	6	474	400						
	Open Ditch	7	496	400						
	Open Ditch	8	511	400						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Westboro	4	2	56	55						
	4	3	79	80						
	4	4	97	95						
	4	5	111	110						
	Open Ditch	2	71	70						
	Open Ditch	3	92	90						
	Open Ditch	4	107	100						
	Open Ditch	5	118	110						
	Open Ditch	6	127	120						
	Open Ditch	7	133	130						
	Open Ditch	8	137	130						
Westland	4	2	196	190	Does not include:					
	4	3	258	250	Auglaize County Wu (clay substratum)					
	4	4	303	300	Hardin County Wf (clay substratum)					
	4	5	338	330	Logan County Wu (clay substratum)					
	Open Ditch	2	212	210	Madison County Wv (silty substratum)					
	Open Ditch	3	272	270						
	Open Ditch	4	314	310						
	Open Ditch	5	346	340						
	Open Ditch	6	370	370						
	Open Ditch	7	387	380						
	Open Ditch	8	399	390						
Westland, clay substratum	4	2	62	60						
	4	3	86	85						
	4	4	105	100						
	4	5	120	120						
	Open Ditch	2	77	75						
	Open Ditch	3	99	100						
	Open Ditch	4	115	110						
	Open Ditch	5	128	120						
	Open Ditch	6	137	130						
	Open Ditch	7	143	140						
	Open Ditch	8	148	140						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Westland, silty substratum	4	2	91	90						
	4	3	123	120						
	4	4	149	140						
	4	5	168	160						
	Open Ditch	2	106	100						
	Open Ditch	3	137	130						
	Open Ditch	4	159	150						
	Open Ditch	5	175	170						
	Open Ditch	6	188	180						
	Open Ditch	7	197	190						
	Open Ditch	8	203	200						
Wetzel	4	2	26	25						
	4	3	38	40						
	4	4	48	50						
	4	5	56	55						
	Open Ditch	2	37	35						
	Open Ditch	3	49	50						
	Open Ditch	4	58	60						
	Open Ditch	5	64	65						
	Open Ditch	6	69	70						
	Open Ditch	7	72	70						
	Open Ditch	8	75	75						
Weyers	4	2	158	150						
	4	3	210	210						
	4	4	248	240						
	4	5	277	270						
	Open Ditch	2	174	170						
	Open Ditch	3	224	220						
	Open Ditch	4	258	250						
	Open Ditch	5	285	280						
	Open Ditch	6	304	300						
	Open Ditch	7	320	320						
	Open Ditch	8	329	320						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Whitaker	4	2	102	100						
	4	3	138	130						
	4	4	166	160						
	4	5	186	186						
	Open Ditch	2	118	110						
	Open Ditch	3	152	150						
	Open Ditch	4	176	170						
	Open Ditch	5	194	190						
	Open Ditch	6	208	200						
	Open Ditch	7	218	210						
	Open Ditch	8	225	220						
Wick	4	2	66	65						
	4	3	92	90						
	4	4	111	110						
	4	5	126	120						
	Open Ditch	2	80	80						
	Open Ditch	3	104	100						
	Open Ditch	4	122	120						
	Open Ditch	5	134	130						
	Open Ditch	6	144	140						
	Open Ditch	7	150	150						
	Open Ditch	8	155	150						
Willette	4	2	48	50	Willette with 9% sand, 46% silt, and 45% clay in the muck surface layers. (Averages of the mineral horizons underlying the muck horizons in all Ohio Willette components.)					
	4	3	67	65						
	4	4	83	85						
	4	5	96	95						
	Open Ditch	2	61	60						
	Open Ditch	3	79	80						
	Open Ditch	4	93	95						
	Open Ditch	5	103	100						
	Open Ditch	6	110	110						
	Open Ditch	7	116	110						
	Open Ditch	8	119	110						

Soil	Drain Size (in.);	Drain Depth (ft.);	Lateral Effect Mean (ft.);	Lateral Effect Rounded (ft.)						
Zepernick	4	2	99	100						
	4	3	134	130						
	4	4	162	160						
	4	5	182	180						
	Open Ditch	2	115	110						
	Open Ditch	3	148	140						
	Open Ditch	4	172	170						
	Open Ditch	5	190	190						
	Open Ditch	6	203	200						
	Open Ditch	7	213	210						
	Open Ditch	8	219	210						
Ziegenfuss	4	2	16	15						
	4	3	25	25						
	4	4	32	30						
	4	5	39	40						
	Open Ditch	2	25	25						
	Open Ditch	3	34	35						
	Open Ditch	4	40	40						
	Open Ditch	5	45	45						
	Open Ditch	6	49	50						
	Open Ditch	7	51	50						
	Open Ditch	8	53	55						
Zipp	4	2	33	35						
	4	3	49	50						
	4	4	61	60						
	4	5	70	70						
	Open Ditch	2	46	45						
	Open Ditch	3	60	60						
	Open Ditch	4	70	70						
	Open Ditch	5	78	80						
	Open Ditch	6	84	85						
	Open Ditch	7	88	90						
	Open Ditch	8	91	90						