

Kent County, Delaware
Table J1b.--Physical Properties of the Soils

Print date: 07/30/2002

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth In	Sand Pct	Silt Pct	Clay Pct	Moist bulk density g/cc	Permea- bility (Ksat) In/hr	Available water capacity In/in	Linear extensi- bility Pct	Organic matter Pct	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
Ba: Bayboro-----	0-14 14-64	---	---	10-35 35-60	1.30-1.50 1.20-1.40	0.6-2 0.06-0.2	0.15-0.20 0.14-0.18	0.0-2.9 3.0-5.9	4.0-10 ---	.17 .32	.17 .32	5	6	48
Bo: Borrow Pits-----	0-10 10-60	---	---	0-1 0-1	---	6-20 6-20	0.03-0.05 0.02-0.05	0.0-2.9 0.0-2.9	0.0-0.1 ---	.17 .15	---	5	2	134
Co: Coastal Beaches----	0-6 6-60	---	---	0-1 0-1	1.35-1.85 1.35-1.85	6-20 6-20	0.03-0.05 0.03-0.05	0.0-2.9 0.0-2.9	0.0-0.1 0.0-0.1	.05 .05	---	5	1	310
El: Elkton-----	0-9 9-21 21-84	---	---	5-18 18-30 2-30	1.00-1.45 1.50-1.80 1.50-1.85	0.6-6 0.2-2 0.6-20	0.15-0.20 0.15-0.18 0.06-0.20	0.0-2.9 0.0-2.9 0.0-2.9	0.5-2.0 0.0-0.5 0.0-0.5	.24 .28 .20	.24 .28 .20	4	3	86
Em: Elkton-----	0-9 9-21 21-84	---	---	11-25 27-45 15-20	1.20-1.50 1.35-1.55 1.45-1.65	0.6-2 0.0015-0.02 0.2-0.6	0.18-0.24 0.12-0.19 0.10-0.15	0.0-2.9 3.0-5.9 0.0-2.9	1.0-4.0 0.0-0.5 0.0-0.5	.43 .32 .32	.43 .32 .32	4	5	56
Eo: Evesboro-----	0-16 16-30 30-72	---	---	1-4 3-6 1-10	1.20-1.55 1.30-1.60 1.30-1.60	6-20 6-20 2-20	0.04-0.09 0.04-0.09 0.04-0.12	0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5 0.0-0.5	.17 .17 .17	.17 .17 .17	4	2	134
EsB: Evesboro-----	0-16 16-30 30-72	---	---	1-4 3-6 1-10	1.20-1.55 1.30-1.60 1.30-1.60	6-20 6-20 2-20	0.04-0.09 0.04-0.09 0.04-0.12	0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5 0.0-0.5	.17 .17 .17	.17 .17 .17	4	2	134
EsD: Evesboro-----	0-16 16-30 30-72	---	---	1-4 3-6 1-10	1.20-1.55 1.30-1.60 1.30-1.60	6-20 6-20 2-20	0.04-0.09 0.04-0.09 0.04-0.12	0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5 0.0-0.5	.17 .17 .17	.17 .17 .17	4	2	134
Ev: Evesboro-----	0-40 40-60	---	---	0-4 35-60	1.10-1.55 1.50-1.70	6-20 0.0015-0.2	0.04-0.09 0.16-0.20	0.0-2.9 3.0-5.9	0.5-1.0 ---	.17 .37	.17 .37	5	2	134

Table J1b.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct					
Fa: Fallsington-----	0-11	---	---	5-18	1.00-1.45	0.6-6	0.15-0.20	0.0-2.9	0.5-2.0	.24	.24	4	3	86
	11-27	---	---	18-30	1.50-1.80	0.2-2	0.15-0.18	0.0-2.9	0.0-0.5	.28	.28			
	27-60	---	---	2-30	1.50-1.85	0.6-20	0.06-0.20	0.0-2.9	0.0-0.5	.20	.20			
Fs: Fallsington-----	0-11	---	---	5-18	1.00-1.45	0.6-2	0.18-0.24	0.0-2.9	0.5-2.0	.32	.32	4	5	56
	11-27	---	---	18-30	1.50-1.80	0.2-2	0.15-0.18	0.0-2.9	0.0-0.5	.28	.28			
	27-60	---	---	2-30	1.50-1.85	0.6-20	0.06-0.20	0.0-2.9	0.0-0.5	.20	.20			
Jo: Johnston-----	0-30	---	---	5-18	1.30-1.55	2-6	0.10-0.20	0.0-2.9	3.0-8.0	.20	.20	5	5	56
	30-34	---	---	2-12	1.55-1.65	6-20	0.02-0.07	0.0-2.9	---	.17	.17			
	34-60	---	---	5-20	1.45-1.65	6-20	0.06-0.12	0.0-2.9	---	.17	.17			
Ka: Keyport-----	0-10	---	---	5-20	1.20-1.60	0.6-6	0.12-0.16	0.0-2.9	1.0-3.0	.37	.37	3	3	86
	10-60	---	---	30-50	1.35-1.60	0.0015-0.2	0.14-0.20	3.0-5.9	0.0-0.5	.32	.32			
	60-72	---	---	5-50	1.35-1.75	0.06-20	0.07-0.20	0.0-2.9	0.0-0.5	.28	.28			
Ke: Keyport-----	0-10	---	---	10-25	1.20-1.60	0.2-2	0.16-0.22	0.0-2.9	1.0-3.0	.43	.43	3	5	56
	10-60	---	---	30-50	1.35-1.60	0.0015-0.2	0.14-0.20	3.0-5.9	0.0-0.5	.32	.32			
	60-72	---	---	5-50	1.35-1.75	0.06-20	0.07-0.20	0.0-2.9	0.0-0.5	.28	.28			
Kl: Klej-----	0-6	---	---	2-10	1.30-1.60	6-20	0.06-0.11	0.0-2.9	1.0-3.0	.17	.17	5	2	134
	6-20	---	---	2-10	1.30-1.60	20-60	0.06-0.10	0.0-2.9	0.0-0.5	.17	.17			
	20-60	---	---	2-10	1.50-1.75	6-20	0.06-0.08	0.0-2.9	0.0-0.5	.17	.17			
Md: Made Land-----	0-6	---	---	---	---	---	---	---	---	---	---	---	---	---
MeA: Matapeake-----	0-16	---	---	5-15	1.00-1.45	0.6-2	0.20-0.28	0.0-2.9	1.0-2.0	.49	.49	4	5	56
	16-34	---	---	18-30	1.40-1.65	0.2-2	0.18-0.24	0.0-2.9	---	.43	.43			
	34-62	---	---	2-70	1.65-1.85	0.6-6	0.08-0.18	0.0-2.9	---	.28	.28			
MeB: Matapeake-----	0-16	---	---	5-15	1.00-1.45	0.6-2	0.20-0.28	0.0-2.9	1.0-2.0	.49	.49	4	5	56
	16-34	---	---	18-30	1.40-1.65	0.2-2	0.18-0.24	0.0-2.9	---	.43	.43			
	34-62	---	---	2-70	1.65-1.85	0.6-6	0.08-0.18	0.0-2.9	---	.28	.28			
MeC2: Matapeake-----	0-16	---	---	5-15	1.00-1.45	0.6-2	0.20-0.28	0.0-2.9	1.0-2.0	.49	.49	4	5	56
	16-34	---	---	18-30	1.40-1.65	0.2-2	0.18-0.24	0.0-2.9	---	.43	.43			
	34-62	---	---	2-70	1.65-1.85	0.6-6	0.08-0.18	0.0-2.9	---	.28	.28			

Table J1b.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct					
Mt: Mattapex-----	0-17	---	---	10-18	1.10-1.45	0.6-2	0.20-0.28	0.0-2.9	0.5-3.0	.43	.43	4	5	56
	17-32	---	---	18-30	1.25-1.45	0.2-2	0.18-0.22	0.0-2.9	0.0-0.5	.43	.43			
	32-60	---	---	8-15	1.45-1.65	0.6-6	0.14-0.18	0.0-2.9	0.0-0.5	.28	.28			
Mv: Mixed Alluvial Land-	0-3	---	---	7-15	---	0.6-2	0.13-0.14	0.0-2.9	0.0-0.1	.15	---	--	---	56
	3-60	---	---	3-10	---	2-6	0.07-0.09	0.0-2.9	---	.15	---			
Ot: Othello-----	0-8	---	---	15-28	1.20-1.50	0.6-2	0.16-0.24	0.0-2.9	1.0-2.0	.37	.37	4	5	56
	8-28	---	---	18-30	1.40-1.70	0.2-0.6	0.12-0.24	0.0-2.9	0.0-0.5	.43	.43			
	28-72	---	---	12-27	1.65-1.80	0.2-2	0.10-0.16	0.0-2.9	0.0-0.5	.28	.28			
Pl: Plummer-----	0-50	---	---	1-10	1.35-1.65	2-20	0.03-0.10	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	50-72	---	---	15-30	1.50-1.70	0.2-2	0.07-0.15	0.0-2.9	---	.15	.15			
Pm: Pocomoke-----	0-10	---	---	7-18	1.20-1.40	0.6-6	0.10-0.20	0.0-2.9	2.0-10	.20	.20	3	3	86
	10-28	---	---	5-18	1.50-1.65	0.6-2	0.10-0.15	0.0-2.9	---	.20	.20			
	28-40	---	---	5-10	1.55-1.70	2-6	0.06-0.10	0.0-2.9	---	.10	.10			
	40-60	---	---	5-30	1.45-1.75	0.6-6	0.06-0.18	0.0-2.9	---	.20	.20			
Po: Pocomoke-----	0-10	---	---	7-18	1.20-1.40	0.6-6	0.10-0.20	0.0-2.9	2.0-10	.20	.20	3	3	86
	10-28	---	---	5-18	1.50-1.65	0.6-2	0.10-0.15	0.0-2.9	---	.20	.20			
	28-40	---	---	5-10	1.55-1.70	2-6	0.06-0.10	0.0-2.9	---	.10	.10			
	40-60	---	---	5-30	1.45-1.75	0.6-6	0.06-0.18	0.0-2.9	---	.20	.20			
RuA: Rumford-----	0-17	---	---	2-12	1.25-1.45	6-20	0.06-0.10	0.0-2.9	0.5-1.0	.17	.17	4	2	134
	17-37	---	---	8-20	1.25-1.45	2-6	0.10-0.15	0.0-2.9	---	.17	.17			
	37-60	---	---	2-18	1.25-1.50	2-20	0.04-0.10	0.0-2.9	---	.17	.20			
RuB: Rumford-----	0-17	---	---	2-12	1.25-1.45	6-20	0.06-0.10	0.0-2.9	0.5-1.0	.17	.17	4	2	134
	17-37	---	---	8-20	1.25-1.45	2-6	0.10-0.15	0.0-2.9	---	.17	.17			
	37-60	---	---	2-18	1.25-1.50	2-20	0.04-0.10	0.0-2.9	---	.17	.20			
RuC2: Rumford-----	0-17	---	---	2-12	1.25-1.45	6-20	0.06-0.10	0.0-2.9	0.5-1.0	.17	.17	4	2	134
	17-37	---	---	8-20	1.25-1.45	2-6	0.10-0.15	0.0-2.9	---	.17	.17			
	37-60	---	---	2-18	1.25-1.50	2-20	0.04-0.10	0.0-2.9	---	.17	.20			

Table J1b.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct					
RuC3: Rumford-----	0-17	---	---	2-12	1.25-1.45	6-20	0.06-0.10	0.0-2.9	0.5-1.0	.17	.17	4	2	134
	17-37	---	---	8-20	1.25-1.45	2-6	0.10-0.15	0.0-2.9	---	.17	.17			
	37-60	---	---	2-18	1.25-1.50	2-20	0.04-0.10	0.0-2.9	---	.17	.20			
RuD: Rumford-----	0-17	---	---	2-12	1.25-1.45	6-20	0.06-0.10	0.0-2.9	0.5-1.0	.17	.17	4	2	134
	17-37	---	---	8-20	1.25-1.45	2-6	0.10-0.15	0.0-2.9	---	.17	.17			
	37-60	---	---	2-18	1.25-1.50	2-20	0.04-0.10	0.0-2.9	---	.17	.20			
SaA: Sassafras-----	0-9	---	---	3-12	1.00-1.45	0.6-6	0.10-0.16	0.0-2.9	1.0-2.0	.28	.28	5	3	86
	9-40	---	---	18-27	1.40-1.65	0.2-2	0.11-0.22	0.0-2.9	0.0-0.5	.37	.37			
	40-70	---	---	3-16	1.40-1.70	0.6-20	0.04-0.12	0.0-2.9	0.0-0.5	.17	.20			
SaB: Sassafras-----	0-9	---	---	3-12	1.00-1.45	0.6-6	0.10-0.16	0.0-2.9	1.0-2.0	.28	.28	5	3	86
	9-40	---	---	18-27	1.40-1.65	0.2-2	0.11-0.22	0.0-2.9	0.0-0.5	.37	.37			
	40-70	---	---	3-16	1.40-1.70	0.6-20	0.04-0.12	0.0-2.9	0.0-0.5	.17	.20			
SaC2: Sassafras-----	0-9	---	---	3-12	1.00-1.45	0.6-6	0.10-0.16	0.0-2.9	1.0-2.0	.28	.28	5	3	86
	9-40	---	---	18-27	1.40-1.65	0.2-2	0.11-0.22	0.0-2.9	0.0-0.5	.37	.37			
	40-70	---	---	3-16	1.40-1.70	0.6-20	0.04-0.12	0.0-2.9	0.0-0.5	.17	.20			
SaC3: Sassafras-----	0-9	---	---	3-12	1.00-1.45	0.6-6	0.10-0.16	0.0-2.9	1.0-2.0	.28	.28	5	3	86
	9-40	---	---	18-27	1.40-1.65	0.2-2	0.11-0.22	0.0-2.9	0.0-0.5	.37	.37			
	40-70	---	---	3-16	1.40-1.70	0.6-20	0.04-0.12	0.0-2.9	0.0-0.5	.17	.20			
SaD2: Sassafras-----	0-9	---	---	3-12	1.00-1.45	0.6-6	0.10-0.16	0.0-2.9	1.0-2.0	.28	.28	5	3	86
	9-40	---	---	18-27	1.40-1.65	0.2-2	0.11-0.22	0.0-2.9	0.0-0.5	.37	.37			
	40-70	---	---	3-16	1.40-1.70	0.6-20	0.04-0.12	0.0-2.9	0.0-0.5	.17	.20			
SfA: Sassafras-----	0-9	---	---	3-12	1.00-1.45	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.28	.28	5	5	56
	9-40	---	---	18-27	1.40-1.65	0.2-2	0.11-0.22	0.0-2.9	0.0-0.5	.37	.37			
	40-70	---	---	3-16	1.40-1.70	0.6-20	0.04-0.12	0.0-2.9	0.0-0.5	.17	.20			
SfB: Sassafras-----	0-9	---	---	3-12	1.00-1.45	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.28	.28	5	5	56
	9-40	---	---	18-27	1.40-1.65	0.2-2	0.11-0.22	0.0-2.9	0.0-0.5	.37	.37			
	40-70	---	---	3-16	1.40-1.70	0.6-20	0.04-0.12	0.0-2.9	0.0-0.5	.17	.20			

Table J1b.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
SfC2:	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct					
Sassafras-----	0-9	---	---	3-12	1.00-1.45	0.6-2	0.12-0.20	0.0-2.9	1.0-2.0	.28	.28	5	5	56
	9-40	---	---	18-27	1.40-1.65	0.2-2	0.11-0.22	0.0-2.9	0.0-0.5	.37	.37			
	40-70	---	---	3-16	1.40-1.70	0.6-20	0.04-0.12	0.0-2.9	0.0-0.5	.17	.20			
SvE:														
Sassafras-----	0-9	---	---	3-12	1.00-1.45	0.6-6	0.10-0.16	0.0-2.9	1.0-2.0	.28	.28	5	3	86
	9-40	---	---	18-27	1.40-1.65	0.2-2	0.11-0.22	0.0-2.9	0.0-0.5	.37	.37			
	40-70	---	---	3-16	1.40-1.70	0.6-20	0.04-0.12	0.0-2.9	0.0-0.5	.17	.20			
Evesboro-----	0-16	---	---	1-4	1.20-1.55	6-20	0.04-0.09	0.0-2.9	0.5-1.0	.17	.17	4	2	134
	16-30	---	---	3-6	1.30-1.60	6-20	0.04-0.09	0.0-2.9	0.0-0.5	.17	.17			
	30-72	---	---	1-10	1.30-1.60	2-20	0.04-0.12	0.0-2.9	0.0-0.5	.17	.17			
Sw:														
Swamp-----	0-39	---	---	---	0.30-0.65	6-20	0.30-0.40	---	20-95	.02	---	2	2	134
	39-60	---	---	0-10	1.10-1.70	2-20	0.04-0.08	0.0-2.9	0.5-1.0	.17	.20			
Tm:														
Tidal Marsh-----	0-6	---	---	10-35	1.20-1.50	0.2-2	0.02-0.07	3.0-5.9	2.0-10	.32	.32	5	---	---
	6-40	---	---	20-35	1.30-1.60	0.2-2	0.02-0.07	3.0-5.9	---	.37	.37			
	40-60	---	---	0-35	1.30-1.60	0.2-20	0.02-0.07	3.0-5.9	---	.28	.28			
Wo:														
Woodstown-----	0-11	---	---	5-18	1.00-1.40	0.6-6	0.08-0.16	0.0-2.9	1.0-2.0	.24	.24	4	3	86
	11-29	---	---	18-30	1.35-1.70	0.2-6	0.06-0.16	0.0-2.9	0.0-0.5	.28	.28			
	29-60	---	---	5-20	1.35-1.65	0.6-6	0.06-0.16	0.0-2.9	0.0-0.5	.28	.28			
Ws:														
Woodstown-----	0-11	---	---	5-18	1.00-1.40	0.6-2	0.10-0.21	0.0-2.9	1.0-2.0	.32	.32	4	5	56
	11-29	---	---	18-30	1.35-1.70	0.2-6	0.06-0.16	0.0-2.9	0.0-0.5	.28	.28			
	29-60	---	---	5-20	1.35-1.65	0.6-6	0.06-0.16	0.0-2.9	0.0-0.5	.28	.28			

