

Table J1b. - Physical Properties of the Soils

James City and York Counties and the City of Williamsburg, Virginia

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	Sand	Silt	Clay	Moist Bulk Density	Permeability (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					
1:														
Altavista	0-13	---	---	10-24	1.30-1.50	2-6	0.12-0.20	0.0-2.9	0.5-3.0	.24	.24	5	3	86
	13-53	---	---	18-35	1.30-1.50	0.6-2	0.12-0.20	0.0-2.9	0.0	.24	.24			
	53-65	---	---	7-20	1.30-1.50	2-6	0.06-0.12	0.0-2.9	0.0	.24	.24			
Augusta	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2:														
Augusta	0-17	---	---	5-24	1.40-1.70	2-6	0.10-0.15	0.0-2.9	0.5-2.0	.20	.20	4	3	86
	17-56	---	---	20-35	1.35-1.60	0.6-2	0.12-0.18	0.0-2.9	0.0	.24	.24			
	56-70	---	---	5-30	1.30-1.50	0.6-2	0.12-0.18	0.0-2.9	0.0	.24	.24			
Altavista	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Munden	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---	---	---	---	---	---	---

3:

Table J1b. - Physical Properties of the Soils - Continued

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Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (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					
3:														
Axis	0-14 14-70	---	---	8-20 8-15	1.20-1.40 1.30-1.50	0.6-2 0.6-2	0.08-0.15 0.08-0.15	0.0-2.9 0.0-2.9	4.0-8.0 0.0	.24 .10	.24 .10	5	8	0
Bohicket	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Johnston	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Levy	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Beaches	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4:														
Beaches	0-60	---	---	0-2	1.35-1.85	20	0.03-0.05	0.0-2.9	0.0-0.1	.05	.05	5	1	310
Axis	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bohicket	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5:														
Bethera	0-7 7-65	---	---	10-20 30-50	1.20-1.40 1.30-1.50	0.6-2 0.001-0.6	0.11-0.16 0.14-0.18	0.0-2.9 3.0-5.9	1.0-6.0 0.0-1.0	.28 .32	.28 .32	5	5	56
Izagora	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Yemassee	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6:														
Bohicket	0-6 6-80	---	---	---	0.15-0.40 1.30-1.60	0.6-6 0.001-0.06	0.02-0.06 0.02-0.06	0.0 6.0-8.9	20-60 5.0-16	.28 .24	.28 .24	5	8	0

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Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (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					
6:														
Axis	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Johnston	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Levy	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7:														
Bojac	0-18	---	---	5-18	1.20-1.50	2-6	0.08-0.16	0.0-2.9	0.5-2.0	.24	.24	3	3	86
	18-53	---	---	5-20	1.35-1.55	2-6	0.08-0.16	0.0-2.9	0.0-0.5	.17	.17			
	53-71	---	---	1-8	1.30-1.50	6-20	0.02-0.07	0.0-2.9	0.0-0.5	.17	.17			
Altavista	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Munden	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8B:														
Caroline	0-13	---	---	15-25	1.35-1.45	0.6-2	0.16-0.22	0.0-2.9	0.5-1.0	.43	.43	5	3	86
	13-47	---	---	20-60	1.40-1.50	0.001-0.6	0.13-0.20	3.0-5.9	0.0	.32	.32			
	47-72	---	---	15-60	1.40-1.55	0.001-0.6	0.11-0.17	3.0-5.9	0.0	.32	.32			
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (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					
9:														
Chickahominy	0-7	---	---	10-25	1.20-1.30	0.6-2	0.10-0.17	0.0-2.9	0.5-2.0	.37	.37	4	3	86
	7-85	---	---	27-60	1.25-1.35	0.2-0.6	0.12-0.19	3.0-5.9	0.0	.37	.37			
Augusta	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dogue	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Newflat	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peawick	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10B:														
Craven	0-9	---	---	7-27	1.30-1.45	0.2-2	0.12-0.15	0.0-2.9	0.5-2.0	.32	.32	5	5	56
	9-53	---	---	30-60	1.30-1.45	0.06-0.2	0.12-0.15	3.0-5.9	0.0	.32	.32			
	53-80	---	---	5-35	1.35-1.60	0.2-6	0.08-0.14	0.0-2.9	0.0	.32	.32			
Caroline	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10C:														

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										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In	Pct	Pct					
10C:														
Craven	0-9	---	---	7-27	1.30-1.45	0.2-2	0.12-0.15	0.0-2.9	0.5-2.0	.32	.32	5	5	56
	9-53	---	---	30-60	1.30-1.45	0.06-0.2	0.12-0.15	3.0-5.9	0.0	.32	.32			
	53-80	---	---	5-35	1.35-1.60	0.2-6	0.08-0.14	0.0-2.9	0.0	.32	.32			
Caroline	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11B:														
Craven	0-9	---	---	7-27	1.30-1.45	0.2-2	0.12-0.15	0.0-2.9	0.5-2.0	.32	.32	5	5	56
	9-53	---	---	30-60	1.30-1.45	0.06-0.2	0.12-0.15	3.0-5.9	0.0	.32	.32			
	53-80	---	---	5-35	1.35-1.60	0.2-6	0.08-0.14	0.0-2.9	0.0	.32	.32			
Uchee	0-24	---	---	3-10	1.30-1.70	6-20	0.05-0.10	0.0-2.9	0.3-3.0	.10	.10	5	2	134
	24-56	---	---	8-50	1.40-1.60	0.6-2	0.10-0.15	0.0-2.9	0.0	.24	.24			
	56-65	---	---	12-40	1.40-1.60	0.2-2	0.10-0.16	3.0-5.9	0.0	.28	.28			
Caroline	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In	Pct	Pct					
11B:														
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11C:														
Craven	0-9	---	---	7-27	1.30-1.45	0.2-2	0.12-0.15	0.0-2.9	0.5-2.0	.32	.32	5	5	56
	9-53	---	---	30-60	1.30-1.45	0.06-0.2	0.12-0.15	3.0-5.9	0.0	.32	.32			
	53-80	---	---	5-35	1.35-1.60	0.2-6	0.08-0.14	0.0-2.9	0.0	.32	.32			
Uchee	0-24	---	---	3-10	1.30-1.70	6-20	0.05-0.10	0.0-2.9	0.3-3.0	.10	.10	5	2	134
	24-56	---	---	8-50	1.40-1.60	0.6-2	0.10-0.15	0.0-2.9	0.0	.24	.24			
	56-65	---	---	12-40	1.40-1.60	0.2-2	0.10-0.16	3.0-5.9	0.0	.28	.28			
Caroline	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12:														
Dogue	0-11	---	---	10-34	1.35-1.50	2-6	0.08-0.15	0.0-2.9	0.5-1.0	.28	.28	4	3	86
	11-52	---	---	30-60	1.45-1.60	0.2-0.6	0.12-0.19	3.0-5.9	0.0	.28	.28			
	52-60	---	---	5-30	1.30-1.50	0.6-2	0.12-0.18	0.0-2.9	0.0	.24	.24			
Altavista	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chickahominy	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Newflat	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pamunkey	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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										Kw	Kf	T		
12:	In	Pct	Pct	Pct	g/cc	In/Hr	In/In	Pct	Pct					
Peawick	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13:														
Dragston	0-17	---	---	4-20	1.20-1.50	2-6	0.08-0.15	0.0-2.9	1.0-2.0	.20	.20	4	3	86
	17-42	---	---	10-20	1.25-1.45	2-6	0.08-0.16	0.0-2.9	0.0	.17	.17			
	42-72	---	---	2-20	1.35-1.55	6-20	0.04-0.10	0.0-2.9	0.0	.17	.17			
Altavista	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Augusta	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14B:														
Emporia	0-13	---	---	7-18	1.30-1.40	2-6	0.10-0.17	0.0-2.9	0.5-2.0	.28	.28	4	3	86
	13-58	---	---	18-35	1.35-1.60	0.06-2	0.10-0.18	3.0-5.9	0.0	.28	.28			
	58-75	---	---	18-35	1.30-1.50	0.6-2	0.12-0.20	0.0-2.9	0.0	.24	.24			
Caroline	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Izagora	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In	Pct	Pct					
14B:														
Suffolk	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14C:														
Emporia	0-13	---	---	7-18	1.30-1.40	2-6	0.10-0.17	0.0-2.9	0.5-2.0	.28	.28	4	3	86
	13-58	---	---	18-35	1.35-1.60	0.06-2	0.10-0.18	3.0-5.9	0.0	.28	.28			
	58-75	---	---	18-35	1.30-1.50	0.6-2	0.12-0.20	0.0-2.9	0.0	.24	.24			
Caroline	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15D:														
Emporia	0-13	---	---	7-18	1.30-1.40	2-6	0.10-0.17	0.0-2.9	0.5-2.0	.28	.28	4	3	86
	13-58	---	---	18-35	1.35-1.60	0.06-2	0.10-0.18	3.0-5.9	0.0	.28	.28			
	58-75	---	---	18-35	1.30-1.50	0.6-2	0.12-0.20	0.0-2.9	0.0	.24	.24			
Caroline	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Craven	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Johnston	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In	Pct	Pct					
15D:														
Uchee	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15E:														
Emporia	0-13	---	---	7-18	1.30-1.40	2-6	0.10-0.17	0.0-2.9	0.5-2.0	.28	.28	4	3	86
	13-58	---	---	18-35	1.35-1.60	0.06-2	0.10-0.18	3.0-5.9	0.0	.28	.28			
	58-75	---	---	18-35	1.30-1.50	0.6-2	0.12-0.20	0.0-2.9	0.0	.24	.24			
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Johnston	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15F:														
Emporia	0-13	---	---	7-18	1.30-1.40	2-6	0.10-0.17	0.0-2.9	0.5-2.0	.28	.28	4	3	86
	13-58	---	---	18-35	1.35-1.60	0.06-2	0.10-0.18	3.0-5.9	0.0	.28	.28			
	58-75	---	---	18-35	1.30-1.50	0.6-2	0.12-0.20	0.0-2.9	0.0	.24	.24			
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Johnston	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16:														
Izagora	0-13	---	---	5-20	1.30-1.45	2-6	0.10-0.14	0.0-2.9	0.5-2.0	.28	.28	5	3	86
	13-78	---	---	12-40	1.30-1.45	0.6-2	0.10-0.18	0.0-2.9	0.0	.24	.24			
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Yemassee	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In	Pct	Pct					
16: Bethera	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17: Johnston	0-34 34-60	---	---	7-35 0-30	1.30-1.55 1.45-1.65	2-6 6-20	0.20-0.26 0.06-0.12	0.0-2.9 0.0-2.9	3.0-8.0 0.0	.17 .17	.17 .17	5	5	56
Axis	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bohicket	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Levy	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18B: Kempsville	0-14 14-55 55-68	---	---	5-15 12-35 2-20	1.30-1.40 1.30-1.45 1.35-1.65	2-6 2-6 0.6-2	0.08-0.14 0.12-0.18 0.12-0.18	0.0-2.9 0.0-2.9 0.0-2.9	0.5-2.0 0.0 0.0	.28 .24 .24	.28 .24 .24	4	3	86
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19B:														

Table J1b. - Physical Properties of the Soils - Continued

James City and York Counties and the City of Williamsburg, Virginia

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (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					
19B:														
Kempsville	0-14	---	---	5-15	1.30-1.40	2-6	0.08-0.14	0.0-2.9	0.5-2.0	.28	.28	4	3	86
	14-55	---	---	12-35	1.30-1.45	2-6	0.12-0.18	0.0-2.9	0.0	.24	.24			
	55-68	---	---	2-20	1.35-1.65	0.6-2	0.12-0.18	0.0-2.9	0.0	.24	.24			
Emporia	0-13	---	---	7-18	1.30-1.40	2-6	0.10-0.17	0.0-2.9	0.5-2.0	.28	.28	4	3	86
	13-58	---	---	18-35	1.35-1.60	0.06-2	0.10-0.18	3.0-5.9	0.0	.28	.28			
	58-75	---	---	18-35	1.30-1.50	0.6-2	0.12-0.20	0.0-2.9	0.0	.24	.24			
Caroline	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20B:														
Kenansville	0-25	---	---	3-10	1.50-1.70	6-20	0.04-0.10	0.0-2.9	0.5-2.0	.15	.15	5	2	134
	25-43	---	---	5-35	1.30-1.50	0.6-6	0.10-0.16	0.0-2.9	0.0	.15	.15			
	43-78	---	---	1-25	1.50-1.70	6-20	0.00-0.05	0.0-2.9	0.0	.10	.10			
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table J1b. - Physical Properties of the Soils - Continued

James City and York Counties and the City of Williamsburg, Virginia

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (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					
21:														
Levy	0-18	---	---	35-60	0.50-1.10	0.06-0.2	0.16-0.22	6.0-8.9	5.0-10	.32	.32	5	8	0
	18-80	---	---	35-60	0.50-1.10	0.06-0.2	0.16-0.22	6.0-8.9	1.0-3.0	.32	.32			
Axis	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bohicket	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Johnston	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22:														
Munden	0-11	---	---	3-15	1.20-1.35	2-6	0.06-0.10	0.0-2.9	0.5-1.0	.17	.17	5	2	134
	11-48	---	---	8-18	1.20-1.35	0.6-6	0.08-0.18	0.0-2.9	0.0	.17	.17			
	48-80	---	---	2-18	1.35-1.55	2-20	0.04-0.08	0.0-2.9	0.0	.17	.17			
Bojac	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Altavista	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23:														
Newflat	0-8	---	---	10-25	1.20-1.30	0.6-2	0.10-0.17	0.0-2.9	0.5-2.0	.37	.37	4	3	86
	8-80	---	---	30-60	1.30-1.50	0.001-0.06	0.10-0.19	6.0-8.9	0.0	.24	.24			
Chickahominy	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peawick	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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Table J1b. - Physical Properties of the Soils - Continued

James City and York Counties and the City of Williamsburg, Virginia

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (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					
24:														
Nimmo	0-17	---	---	4-14	1.20-1.35	2-6	0.08-0.16	0.0-2.9	1.0-3.0	.20	.20	5	4	86
	17-36	---	---	8-18	1.20-1.35	0.6-2	0.08-0.18	0.0-2.9	0.0	.17	.17			
	36-60	---	---	1-8	1.35-1.55	2-20	0.04-0.08	0.0-2.9	0.0	.17	.17			
Altavista	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Munden	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25B:														
Norfolk	0-17	---	---	10-18	1.20-1.35	0.6-2	0.12-0.17	0.0-2.9	0.5-2.0	.28	.28	5	3	86
	17-72	---	---	10-34	1.35-1.50	0.6-2	0.14-0.19	0.0-2.9	0.0	.28	.28			
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26B:														
Pamunkey	0-14	---	---	10-18	1.20-1.35	0.6-2	0.12-0.17	0.0-2.9	0.5-2.0	.28	.28	5	3	86
	14-43	---	---	10-34	1.35-1.50	0.6-2	0.14-0.19	0.0-2.9	0.0	.28	.28			
	43-75	---	---	2-20	1.35-1.50	2-20	0.02-0.10	0.0-2.9	0.0	.17	.17			
Altavista	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bojac	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table J1b. - Physical Properties of the Soils - Continued

James City and York Counties and the City of Williamsburg, Virginia

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (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					
26B:														
Dogue	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27:														
Peawick	0-2 2-99	---	---	10-25 35-60	1.20-1.30 1.30-1.50	0.6-2 0.001-0.06	0.10-0.17 0.10-0.17	0.0-2.9 6.0-8.9	0.5-2.0 0.0	.37 .24	.37 .24	5	3	86
Chickahominy	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dogue	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Newflat	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pamunkey	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28:														
Seabrook	0-9 9-72	---	---	2-7 0-7	1.30-1.60 1.30-1.60	6-20 6-20	0.05-0.11 0.02-0.09	0.0-2.9 0.0-2.9	0.5-2.0 0.0	.10 .10	.10 .10	5	2	134
Munden	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Altavista	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bojac	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table J1b. - Physical Properties of the Soils - Continued

James City and York Counties and the City of Williamsburg, Virginia

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (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					
28:														
29A:														
Slagle	0-9	---	---	8-18	1.30-1.45	2-6	0.10-0.14	0.0-2.9	0.5-2.0	.28	.28	5	3	86
	9-25	---	---	12-40	1.30-1.45	0.6-2	0.10-0.18	0.0-2.9	0.0	.24	.24			
	25-60	---	---	3-50	1.35-1.60	0.001-0.6	0.12-0.18	3.0-5.9	0.0	.24	.24			
Bethera	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Izagora	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peawick	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Yemassee	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29B:														
Slagle	0-9	---	---	8-18	1.30-1.45	2-6	0.10-0.14	0.0-2.9	0.5-2.0	.28	.28	5	3	86
	9-25	---	---	12-40	1.30-1.45	0.6-2	0.10-0.18	0.0-2.9	0.0	.24	.24			
	25-60	---	---	3-50	1.35-1.60	0.001-0.6	0.12-0.18	3.0-5.9	0.0	.24	.24			
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Izagora	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table J1b. - Physical Properties of the Soils - Continued

James City and York Counties and the City of Williamsburg, Virginia

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (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					
29B:														
Peawick	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30:														
State	0-11	---	---	8-18	1.25-1.40	0.6-6	0.08-0.15	0.0-2.9	0.5-2.0	.28	.28	5	3	86
	11-52	---	---	18-34	1.35-1.50	0.6-2	0.14-0.19	0.0-2.9	0.0	.28	.28			
	52-97	---	---	0-18	1.35-1.50	2-20	0.02-0.10	0.0-2.9	0.0	.17	.17			
Altavista	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Augusta	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dogue	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pamunkey	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---	---	---	---	---	---
31B:														
Suffolk	0-14	---	---	10-18	1.35-1.45	2-6	0.10-0.16	0.0-2.9	0.5-2.0	.20	.20	5	3	86
	14-40	---	---	10-35	1.40-1.50	0.6-2	0.10-0.15	0.0-2.9	0.0	.24	.24			
	40-64	---	---	1-20	1.40-1.50	2-20	0.04-0.10	0.0-2.9	0.0	.15	.15			
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table J1b. - Physical Properties of the Soils - Continued

James City and York Counties and the City of Williamsburg, Virginia

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (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					
31B:														
32:														
Tetotum	0-10	---	---	10-22	1.20-1.35	0.6-2	0.14-0.19	0.0-2.9	0.5-2.0	.37	.37	4	5	56
	10-51	---	---	18-35	1.25-1.45	0.6-2	0.14-0.19	0.0-2.9	0.0	.32	.32			
	51-65	---	---	2-30	1.25-1.45	0.6-20	0.06-0.15	0.0-2.9	0.0	.32	.32			
Augusta	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chickahominy	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Newflat	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pamunkey	---	---	---	---	---	---	---	---	---	---	---	---	---	---
State	---	---	---	---	---	---	---	---	---	---	---	---	---	---
33:														
Tomotley	0-8	---	---	8-20	1.30-1.60	2-6	0.10-0.15	0.0-2.9	1.0-3.0	.20	.20	5	3	86
	8-50	---	---	18-35	1.30-1.50	0.6-2	0.12-0.18	0.0-2.9	0.0	.20	.20			
	50-68	---	---	12-35	1.30-1.60	0.2-2	0.12-0.18	0.0-2.9	0.0	.20	.20			
Altavista	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Augusta	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Munden	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table J1b. - Physical Properties of the Soils - Continued

James City and York Counties and the City of Williamsburg, Virginia

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (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					
33:														
Seabrook	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bojac	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34B:														
Uchee	0-24	---	---	3-10	1.30-1.70	6-20	0.05-0.10	0.0-2.9	0.3-3.0	.10	.10	5	2	134
	24-56	---	---	8-50	1.40-1.60	0.6-2	0.10-0.15	0.0-2.9	0.0	.24	.24			
	56-65	---	---	12-40	1.40-1.60	0.2-2	0.10-0.16	3.0-5.9	0.0	.28	.28			
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34C:														
Uchee	0-24	---	---	3-10	1.30-1.70	6-20	0.05-0.10	0.0-2.9	0.3-3.0	.10	.10	5	2	134
	24-56	---	---	8-50	1.40-1.60	0.6-2	0.10-0.15	0.0-2.9	0.0	.24	.24			
	56-65	---	---	12-40	1.40-1.60	0.2-2	0.10-0.16	3.0-5.9	0.0	.28	.28			
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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Table J1b. - Physical Properties of the Soils - Continued

James City and York Counties and the City of Williamsburg, Virginia

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (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					
35:														
Udorthents	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pamunkey	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bethera	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
36:														
Udorthents	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dumps	---	---	---	---	---	---	---	---	---	---	---	8	0	
Igazora	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bethera	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table J1b. - Physical Properties of the Soils - Continued

James City and York Counties and the City of Williamsburg, Virginia

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (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					
36:														
Caroline	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
37:														
Urban land	>0	---	---	---	---	0.0000	0.00	---	---	---	---	---	---	---
Emporia	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
38:														
Yemassee	0-11	---	---	10-20	1.30-1.60	2-6	0.10-0.15	0.0-2.9	0.5-3.0	.20	.20	5	3	86
	11-51	---	---	18-35	1.30-1.50	0.6-2	0.11-0.18	0.0-2.9	0.0	.20	.20			
	51-63	---	---	1-35	1.30-1.50	0.6-2	0.11-0.17	0.0-2.9	0.0	.20	.20			
Bethera	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Izagora	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---	---	---	---	---	---
W:														
Water	---	---	---	---	---	---	---	---	---	---	---	---	---	---