Kanawha County, West Virginia Print date: 01/15/2004

Table J1a.--Physical Properties of the Soils

(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 RV	Silt RV	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
AgB:														
Allegheny----------	0-9	44	35	15-27	1.20-1.40	4.00-14.00	0.15-0.22	0.0-2.9	1.0-4.0	.32	.32	3	---	56
	9-33	32	41	18-35	1.20-1.50	4.00-14.00	0.13-0.18	0.0-2.9	---	.32	.32			
	33-49	10	54	27-45	1.30-1.55	0.42-4.00	0.08-0.16	0.0-2.9	---	.32	.32			
	49-66	---	---	---	---	0.42-4.00	0.08-0.16	---	---	---	---			
AgC:														
Allegheny----------	0-9	44	35	15-27	1.20-1.40	4.00-14.00	0.15-0.22	0.0-2.9	1.0-4.0	.32	.32	3	---	56
	9-33	41	32	18-35	1.20-1.50	4.00-14.00	0.13-0.18	0.0-2.9	---	.32	.32			
	33-49	10	54	27-45	1.30-1.55	0.42-4.00	0.08-0.16	0.0-2.9	---	.32	.32			
	49-66	---	---	---	---	0.42-4.00	0.08-0.16	---	---	---	---			
CaC:														
Clymer----------	0-12	40	39	15-27	1.20-1.40	4.00-14.00	0.10-0.16	0.0-2.9	1.0-4.0	.24	.24	3	---	56
	12-37	35	30	27-40	1.20-1.50	4.00-14.00	0.08-0.14	0.0-2.9	---	.15	.17			
	37-52	35	35	27-40	1.20-1.40	4.00-14.00	0.04-0.08	0.0-2.9	---	.15	.20			
	52-56	---	---	---	---	1.40-4.00	---	---	---	---	---			
CDD:														
Clymer----------	0-12	40	39	15-27	1.20-1.40	4.00-14.00	0.10-0.14	0.0-2.9	1.0-4.0	.20	.24	3	---	48
	12-37	42	34	18-30	1.20-1.50	4.00-14.00	0.08-0.14	0.0-2.9	---	.15	.17			
	37-52	32	33	27-40	1.20-1.40	4.00-14.00	0.04-0.08	0.0-2.9	---	.15	.20			
	52-56	---	---	---	---	1.40-4.00	---	---	---	---	---			
Dekalb----------	0-3	60	25	10-20	1.20-1.50	42.00-141.00	0.08-0.12	0.0-2.9	2.0-4.0	.17	.24	2	---	48
	3-20	60	25	7-18	1.20-1.50	42.00-141.00	0.06-0.12	0.0-2.9	---	.17	.24			
	20-30	65	25	5-15	1.20-1.50	42.00-141.00	0.05-0.10	0.0-2.9	---	.17	.24			
	30-34	---	---	---	---	0.00-1.40	---	---	---	---	---			
Other soils----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
CDE:														
Clymer----------	0-12	40	39	15-27	1.20-1.40	4.00-14.00	0.10-0.14	0.0-2.9	1.0-4.0	.20	.24	3	---	48
	12-37	42	30	18-30	1.20-1.50	4.00-14.00	0.08-0.14	0.0-2.9	---	.15	.17			
	37-52	40	39	15-27	1.20-1.40	4.00-14.00	0.04-0.08	0.0-2.9	---	.15	.20			
	52-56	---	---	---	---	1.40-4.00	---	---	---	---	---			
Dekalb----------	0-3	60	25	10-20	1.20-1.50	42.00-141.00	0.08-0.12	0.0-2.9	2.0-4.0	.17	.24	2	---	48
	3-20	60	25	7-18	1.20-1.50	42.00-141.00	0.06-0.12	0.0-2.9	---	.17	.24			
	20-30	65	25	5-15	1.20-1.50	42.00-141.00	0.05-0.10	0.0-2.9	---	.17	.24			
	30-34	---	---	---	---	0.00-1.40	---	---	---	---	---			
Other soils----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
CDF:														
Clymer----------	0-12	40	39	15-27	1.20-1.40	4.00-14.00	0.10-0.14	0.0-2.9	1.0-4.0	.20	.24	3	---	48
	12-37	42	30	18-30	1.20-1.50	4.00-14.00	0.08-0.14	0.0-2.9	---	.15	.17			
	37-52	40	39	15-27	1.20-1.40	4.00-14.00	0.04-0.08	0.0-2.9	---	.15	.20			
	52-56	---	---	---	---	1.40-4.00	---	---	---	---	---			
Dekalb----------	0-3	60	25	10-20	1.20-1.50	42.00-141.00	0.08-0.12	0.0-2.9	2.0-4.0	.17	.24	2	---	48
	3-20	60	25	7-18	1.20-1.50	42.00-141.00	0.06-0.12	0.0-2.9	---	.17	.24			
	20-30	65	25	5-15	1.20-1.50	42.00-141.00	0.05-0.10	0.0-2.9	---	.17	.24			
	30-34	---	---	---	---	0.00-1.40	---	---	---	---	---			
Other soils----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
CoB:														
Coolville----------	0-7	25	53	17-27	1.30-1.50	4.00-14.00	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43	3	6	48
	7-22	10	55	30-40	1.40-1.65	4.00-14.00	0.16-0.19	3.0-5.9	---	.43	.49			
	22-47	17	35	35-60	1.50-1.70	0.42-1.40	0.10-0.15	3.0-5.9	---	.32	.37			
	47-60	10	42	35-60	1.50-1.70	0.42-1.40	0.08-0.12	3.0-5.9	---	.32	.43			
	60-64	---	---	---	---	0.00-1.40	---	---	---	---	---			
CoC:														
Coolville----------	0-7	25	53	17-27	1.30-1.50	4.00-14.00	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43	3	6	48
	7-22	10	55	30-40	1.40-1.65	4.00-14.00	0.16-0.19	3.0-5.9	---	.43	.49			
	22-47	17	35	35-60	1.50-1.70	0.42-1.40	0.10-0.15	3.0-5.9	---	.32	.37			
	47-60	10	42	35-60	1.50-1.70	0.42-1.40	0.08-0.12	3.0-5.9	---	.32	.43			
	60-64	---	---	---	---	0.00-1.40	---	---	---	---	---			

Table J1a.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand RV	Silt RV	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
CrC3:														
Coolville----------	0-7	18	52	27-32	1.35-1.55	4.00-14.00	0.17-0.20	0.0-2.9	0.5-2.0	.43	.43	3	7	38
	7-22	10	55	30-40	1.40-1.65	4.00-14.00	0.16-0.19	3.0-5.9	---	.43	.49			
	22-47	17	35	35-60	1.50-1.70	0.42-1.40	0.10-0.15	3.0-5.9	---	.32	.37			
	47-60	10	42	35-60	1.50-1.70	0.42-1.40	0.08-0.12	3.0-5.9	---	.32	.43			
	60-64	---	---	---	---	0.00-1.40	---	---	---	---	---			
Ct:														
Cotaco----------	0-14	37	46	7-27	1.20-1.40	4.00-42.00	0.12-0.20	0.0-2.9	0.5-4.0	.37	.43	3	5	56
	14-60	32	41	18-35	1.20-1.50	4.00-14.00	0.07-0.15	0.0-2.9	---	.28	.32			
Melvin----------	---	---	---	---	---	---	---	---	---	---	---	5	---	---
Dm:														
Dumps----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
FL:														
Fluvaquents----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Melvin----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
GlC:														
Gilpin----------	0-11	25	55	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	11-30	17	56	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	30-35	20	55	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	35-39	---	---	---	---	1.40-4.00	---	---	---	---	---			
GlD:														
Gilpin----------	0-11	24	55	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	11-30	17	56	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	30-35	20	55	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	35-39	---	---	---	---	1.40-4.00	---	---	---	---	---			
GlE:														
Gilpin----------	0-11	24	55	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	11-30	17	56	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	30-35	20	55	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	35-39	---	---	---	---	1.40-4.00	---	---	---	---	---			
GpC:														
Gilpin----------	0-11	24	55	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	11-30	14	56	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	30-35	20	55	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	35-39	---	---	---	---	1.40-4.00	---	---	---	---	---			
Upshur----------	0-4	10	69	15-27	1.20-1.40	4.00-14.00	0.12-0.16	3.0-5.9	1.0-4.0	.43	.43	3	6	48
	4-28	23	29	40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9	---	.32	.32			
	28-36	33	29	27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9	---	.32	.32			
	36-67	---	---	---	---	0.00-1.40	---	---	---	---	---			
Other soils----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
GpD:														
Gilpin----------	0-11	25	54	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	11-30	14	56	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	30-35	20	55	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	35-39	---	---	---	---	1.40-4.00	---	---	---	---	---			
Upshur----------	0-4	10	69	15-27	1.20-1.40	4.00-14.00	0.12-0.16	3.0-5.9	1.0-4.0	.43	.43	3	6	48
	4-28	23	29	40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9	---	.32	.32			
	28-36	33	29	27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9	---	.32	.32			
	36-67	---	---	---	---	0.00-1.40	---	---	---	---	---			
Other soils----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
GRE:														
Gilpin----------	0-11	14	65	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	11-30	14	56	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	30-35	20	55	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	35-39	---	---	---	---	1.40-4.00	---	---	---	---	---			

Table J1a.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand RV	Silt RV	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
Upshur----------	0-4	10	69	15-27	1.20-1.40	4.00-14.00	0.12-0.16	3.0-5.9	1.0-4.0	.43	.43	3	6	48
	4-28	23	29	40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9	---	.32	.32			
	28-36	33	29	27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9	---	.32	.32			
	36-67	---	---	---	---	0.00-1.40	---	---	---	---	---			
Other soils----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
GRF:														
Gilpin----------	0-11	24	55	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	11-30	14	56	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	30-35	20	55	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	35-39	---	---	---	---	1.40-4.00	---	---	---	---	---			
Other soils----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Upshur----------	0-4	10	69	15-27	1.20-1.40	4.00-14.00	0.12-0.16	3.0-5.9	1.0-4.0	.43	.43	3	6	48
	4-28	23	29	40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9	---	.32	.32			
	28-36	33	29	27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9	---	.32	.32			
	36-67	---	---	---	---	0.00-1.40	---	---	---	---	---			
GsC3:														
Gilpin----------	0-11	23	56	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	11-30	17	56	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	30-35	20	55	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	35-39	---	---	---	---	1.40-4.00	---	---	---	---	---			
Upshur----------	0-4	10	59	27-35	1.20-1.50	1.40-4.00	0.12-0.16	3.0-5.9	0.5-3.0	.37	.37	3	7	38
	4-28	23	29	40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9	---	.32	.32			
	28-36	33	29	27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9	---	.32	.32			
	36-67	---	---	---	---	0.00-1.40	---	---	---	---	---			
Other soils----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
GsD3:														
Gilpin----------	0-11	15	64	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	11-30	17	56	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	30-35	20	55	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	35-39	---	---	---	---	1.40-4.00	---	---	---	---	---			
Upshur----------	0-4	10	59	27-35	1.20-1.50	1.40-4.00	0.12-0.16	3.0-5.9	0.5-3.0	.37	.37	3	7	38
	4-28	23	29	40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9	---	.32	.32			
	28-36	33	29	27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9	---	.32	.32			
	36-67	---	---	---	---	0.00-1.40	---	---	---	---	---			
Other soils----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
GuE3:														
Gilpin----------	0-11	15	64	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	11-30	17	56	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	30-35	20	55	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	35-39	---	---	---	---	1.40-4.00	---	---	---	---	---			
Other soils----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Upshur----------	0-4	10	59	27-35	1.20-1.50	1.40-4.00	0.12-0.16	3.0-5.9	0.5-3.0	.37	.37	3	7	38
	4-28	23	29	40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9	---	.32	.32			
	28-36	33	29	27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9	---	.32	.32			
	36-67	---	---	---	---	0.00-1.40	---	---	---	---	---			
HaA:														
Hackers----------	0-11	25	54	15-27	1.20-1.40	4.00-14.00	0.18-0.24	0.0-2.9	2.0-4.0	.32	.32	4	5	56
	11-60	32	43	18-35	1.30-1.50	4.00-14.00	0.12-0.18	3.0-5.9	---	.37	.37			
	60-64	10	60	18-35	1.30-1.50	4.00-14.00	0.12-0.18	0.0-2.9	---	.28	.28			
Melvin----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
HaB:														
Hackers----------	0-11	25	54	15-27	1.20-1.40	4.00-14.00	0.18-0.24	0.0-2.9	2.0-4.0	.32	.32	4	5	56
	11-60	32	43	18-35	1.30-1.50	4.00-14.00	0.12-0.18	3.0-5.9	---	.37	.37			
	60-64	10	65	18-35	1.30-1.50	4.00-14.00	0.12-0.18	0.0-2.9	---	.28	.28			

Table J1a.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand RV	Silt RV	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
KaA:														
Kanawha----------	0-9	64	22	8-20	1.20-1.40	14.00-42.00	0.12-0.16	0.0-2.9	2.0-4.0	.24	.24	4	3	86
	9-16	37	45	10-25	1.30-1.50	4.00-14.00	0.12-0.20	0.0-2.9	---	.32	.32			
	16-52	43	30	18-35	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	---	.28	.28			
	52-60	64	21	0-20	1.30-1.50	4.00-42.00	0.10-0.18	0.0-2.9	---	.24	.24			
Melvin----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
KaB:														
Kanawha----------	0-9	64	22	8-20	1.20-1.40	14.00-42.00	0.12-0.16	0.0-2.9	2.0-4.0	.24	.24	4	3	86
	9-16	37	45	10-25	1.30-1.50	4.00-14.00	0.12-0.20	0.0-2.9	---	.32	.32			
	16-52	37	39	18-35	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	---	.28	.28			
	52-60	64	21	0-20	1.30-1.50	4.00-42.00	0.10-0.18	0.0-2.9	---	.24	.24			
LaD:														
Laidig----------	0-9	64	21	10-20	1.20-1.40	4.00-42.00	0.10-0.14	0.0-2.9	1.0-4.0	.28	.24	4	---	---
	9-45	37	39	18-35	1.30-1.50	4.00-42.00	0.08-0.12	0.0-2.9	---	.24	.28			
	45-82	37	39	18-35	1.30-1.60	0.42-4.00	0.06-0.10	0.0-2.9	---	.17	.20			
LaE:														
Laidig----------	0-9	64	21	10-20	1.20-1.40	4.00-42.00	0.10-0.14	0.0-2.9	1.0-4.0	.28	.24	4	---	---
	9-45	37	39	18-35	1.30-1.50	4.00-42.00	0.08-0.12	0.0-2.9	---	.24	.28			
	45-82	37	39	18-35	1.30-1.60	0.42-4.00	0.06-0.10	0.0-2.9	---	.17	.20			
LdB:														
Laidig----------	0-9	37	44	10-27	1.20-1.40	4.00-42.00	0.10-0.14	0.0-2.9	1.0-4.0	.28	.32	4	---	56
	9-45	37	39	18-35	1.30-1.50	4.00-42.00	0.08-0.12	0.0-2.9	---	.24	.28			
	45-82	37	39	18-35	1.30-1.60	0.42-4.00	0.06-0.10	0.0-2.9	---	.17	.20			
Andover----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
LdC:														
Laidig----------	0-9	37	44	10-27	1.20-1.40	4.00-42.00	0.10-0.14	0.0-2.9	1.0-4.0	.28	.32	4	---	56
	9-45	37	39	18-35	1.30-1.50	4.00-42.00	0.08-0.12	0.0-2.9	---	.24	.28			
	45-82	37	39	18-35	1.30-1.60	0.42-4.00	0.06-0.10	0.0-2.9	---	.17	.20			
Andover----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
MgB:														
Monongahela----------	0-10	21	60	10-27	1.20-1.40	4.00-14.00	0.18-0.24	0.0-2.9	2.0-4.0	.43	.43	3	5	56
	10-26	24	49	18-35	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	---	.43	.43			
	26-60	20	60	0-27	1.30-1.60	0.42-4.00	0.08-0.12	0.0-2.9	---	.43	.49			
	60-64	22	55	10-35	1.20-1.40	1.40-4.00	0.08-0.12	0.0-2.9	---	.37	.43			
Robertsville---------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
MgC:														
Monongahela----------	0-10	21	60	10-27	1.20-1.40	4.00-14.00	0.18-0.24	0.0-2.9	2.0-4.0	.43	.43	3	5	56
	10-26	34	39	18-35	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	---	.43	.43			
	26-60	25	55	18-35	1.30-1.60	0.42-4.00	0.08-0.12	0.0-2.9	---	.43	.49			
	60-64	25	55	10-35	1.20-1.40	1.40-4.00	0.08-0.12	0.0-2.9	---	.37	.43			
Mo:														
Moshannon----------	0-7	25	54	15-27	1.20-1.50	4.00-14.00	0.20-0.24	0.0-2.9	1.0-3.0	.37	.37	5	6	48
	7-44	10	65	18-32	1.20-1.50	4.00-14.00	0.18-0.22	0.0-2.9	---	.37	.37			
	44-66	64	18	0-20	1.20-1.50	4.00-14.00	0.14-0.18	0.0-2.9	---	.37	.43			
Melvin----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Qu:														
Quarries----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Se:														
Senecaville----------	0-6	25	54	15-27	1.20-1.40	4.00-14.00	0.18-0.24	0.0-2.9	2.0-4.0	.32	.32	5	5	56
	6-40	21	52	18-35	1.20-1.40	1.40-14.00	0.12-0.18	3.0-5.9	---	.37	.37			
	40-60	48	25	18-35	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	---	.28	.28			
Melvin----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Sn:														
Sensabaugh----------	0-25	25	58	8-25	1.25-1.40	4.00-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.24	.24	5	---	---
	25-31	25	55	0-27	1.30-1.50	4.00-42.00	0.10-0.16	0.0-2.9	---	.20	.24			
	31-60	37	38	12-38	1.25-1.50	4.00-42.00	0.08-0.14	0.0-2.9	---	.17	.20			

Table J1a.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand RV	Silt RV	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
Melvin----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Ty:														
Tyler----------	0-14	25	55	14-26	1.30-1.50	4.00-14.00	0.18-0.22	0.0-2.9	2.0-4.0	.43	.43	3	5	56
	14-20	25	48	20-33	1.40-1.60	1.40-4.00	0.16-0.20	3.0-5.9	---	.43	.43			
	20-60	32	42	18-33	1.60-1.85	0.42-1.40	0.04-0.12	0.0-2.9	---	.43	.49			
Robertsville---------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
UA:														
Udifluvents----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Melvin----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
UB:														
Udifluvents----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
UC:														
Udorthents, smoothed-	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Other soils----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
UD:														
Udorthents----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Wet minesoil---------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Ue:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Uf:														
Urban land----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Fluvaquents----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Other soils----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Melvin----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Uk:														
Urban land----------	0-6	0	0	0-0	---	---	0.00-0.00	---	0.0-0.0	.02	.02	1	---	0
Kanawha----------	0-9	64	22	8-20	1.20-1.40	14.00-42.00	0.12-0.16	0.0-2.9	2.0-4.0	.24	.24	4	3	86
	9-16	37	45	10-25	1.30-1.50	4.00-14.00	0.12-0.20	0.0-2.9	---	.32	.32			
	16-52	37	39	18-35	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	---	.28	.28			
	52-60	60	25	0-20	1.30-1.50	4.00-42.00	0.10-0.18	0.0-2.9	---	.24	.24			
Melvin----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Other soils----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Ut:														
Urban land----------	0-6	0	0	0-0	---	---	0.00-0.00	---	0.0-0.0	.02	.02	1	---	0
Tyler----------	0-14	25	55	14-26	1.30-1.50	4.00-14.00	0.18-0.22	0.0-2.9	2.0-4.0	.43	.43	3	5	56
	14-20	25	48	20-33	1.40-1.60	1.40-4.00	0.16-0.20	3.0-5.9	---	.43	.43			
	20-60	32	42	18-33	1.60-1.85	0.42-1.40	0.04-0.12	0.0-2.9	---	.43	.49			
Other soils----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
Robertsville---------	---	---	---	---	---	---	---	---	---	---	---	--	---	---
VaB:														
Vandalia----------	0-4	20	56	20-27	1.20-1.50	1.40-14.00	0.12-0.18	3.0-5.9	1.0-3.0	.37	.37	4	6	48
	4-41	10	56	27-40	1.30-1.60	0.42-4.00	0.12-0.15	6.0-8.9	---	.32	.32			
	41-72	10	56	27-40	1.30-1.60	0.42-4.00	0.08-0.12	6.0-8.9	---	.32	.32			
VaC:														
Vandalia----------	0-4	20	56	20-27	1.20-1.50	1.40-14.00	0.12-0.18	3.0-5.9	1.0-3.0	.37	.37	4	6	48
	4-41	10	45	40-100	1.30-1.60	0.42-4.00	0.12-0.15	6.0-8.9	---	.32	.32			
	41-72	10	56	27-40	1.30-1.60	0.42-4.00	0.08-0.12	6.0-8.9	---	.32	.32			

Table J1a.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand RV	Silt RV	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
VaD:														
Vandalia----------	0-4	20	56	20-27	1.20-1.50	1.40-14.00	0.12-0.18	3.0-5.9	1.0-3.0	.37	.37	4	6	48
	4-41	10	45	40-60	1.30-1.60	0.42-4.00	0.12-0.15	6.0-8.9	---	.32	.32			
	41-72	10	55	27-40	1.30-1.60	0.42-4.00	0.08-0.12	6.0-8.9	---	.32	.32			
VaE:														
Vandalia----------	0-4	20	56	20-27	1.20-1.50	1.40-14.00	0.12-0.18	3.0-5.9	1.0-3.0	.37	.37	4	6	48
	4-41	10	45	40-100	1.30-1.60	0.42-4.00	0.12-0.15	6.0-8.9	---	.32	.32			
	41-72	10	45	40-100	1.30-1.60	0.42-4.00	0.08-0.12	6.0-8.9	---	.32	.32			
VdC3:														
Vandalia----------	0-4	10	59	27-35	1.20-1.50	1.40-14.00	0.12-0.18	3.0-5.9	1.0-3.0	.37	.37	4	6	48
	4-41	10	45	40-100	1.30-1.60	0.42-4.00	0.12-0.15	6.0-8.9	---	.32	.32			
	41-72	10	55	27-40	1.30-1.60	0.42-4.00	0.08-0.12	6.0-8.9	---	.32	.32			
VdD3:														
Vandalia----------	0-4	10	59	27-35	1.20-1.50	1.40-14.00	0.12-0.18	3.0-5.9	1.0-3.0	.37	.37	4	6	48
	4-41	10	45	40-100	1.30-1.60	0.42-4.00	0.12-0.15	6.0-8.9	---	.32	.32			
	41-72	10	55	27-40	1.30-1.60	0.42-4.00	0.08-0.12	6.0-8.9	---	.32	.32			
VdE3:														
Vandalia----------	0-4	10	59	27-35	1.20-1.50	1.40-14.00	0.12-0.18	3.0-5.9	1.0-3.0	.37	.37	4	6	48
	4-41	10	45	40-100	1.30-1.60	0.42-4.00	0.12-0.15	6.0-8.9	---	.32	.32			
	41-72	10	55	27-40	1.30-1.60	0.42-4.00	0.08-0.12	6.0-8.9	---	.32	.32			
VeB:														
Vincent----------	0-13	19	58	20-27	1.20-1.50	0.42-14.00	0.20-0.24	0.0-2.9	1.0-3.0	.43	.43	3	6	48
	13-49	5	50	40-100	1.35-1.65	0.42-1.40	0.10-0.18	6.0-8.9	---	.32	.32			
	49-64	5	50	40-100	1.40-1.70	0.42-1.40	0.08-0.18	6.0-8.9	---	.32	.32			
VeC:														
Vincent----------	0-13	19	58	20-27	1.20-1.50	0.42-14.00	0.20-0.24	0.0-2.9	1.0-3.0	.43	.43	3	6	48
	13-49	10	45	40-100	1.35-1.65	0.42-1.40	0.10-0.18	6.0-8.9	---	.32	.32			
	49-64	10	45	40-100	1.40-1.70	0.42-1.40	0.08-0.18	6.0-8.9	---	.32	.32			
VnC3:														
Vincent----------	0-13	10	56	27-40	1.20-1.50	0.42-14.00	0.20-0.24	0.0-2.9	1.0-3.0	.43	.43	3	6	48
	13-49	10	45	40-100	1.35-1.65	0.42-1.40	0.10-0.18	6.0-8.9	---	.32	.32			
	49-64	10	45	40-100	1.40-1.70	0.42-1.40	0.08-0.18	6.0-8.9	---	.32	.32			
W:														
Water----------	---	---	---	---	---	---	---	---	---	---	---	--	---	---