

TABLE 21.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS

[PART I.]

(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)

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea- bility	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	In/hr	In/in		Pct					
AmD2: Amanda-----	0-9	12-27	1.25-1.45	0.60-2.00	0.18-0.24	Low	0.5-3.0	0.37	0.37	5	6	48
	9-42	23-35	1.45-1.65	0.60-2.00	0.15-0.20	Moderate	0.0-1.0	0.37	0.43			
	42-80	15-25	1.55-1.75	0.20-0.60	0.08-0.12	Low	0.0-0.5	0.32	0.37			
AmE: Amanda-----	0-9	12-27	1.25-1.45	0.60-2.00	0.18-0.24	Low	1.0-3.0	0.37	0.37	5	6	48
	9-43	23-35	1.45-1.65	0.60-2.00	0.15-0.20	Moderate	0.0-1.0	0.37	0.43			
	43-80	15-25	1.55-1.75	0.20-0.60	0.08-0.12	Low	0.0-0.5	0.32	0.37			
AmF: Amanda-----	0-8	12-27	1.25-1.45	0.60-2.00	0.18-0.24	Low	1.0-3.0	0.37	0.37	5	6	48
	8-48	23-35	1.45-1.65	0.60-2.00	0.15-0.20	Moderate	0.0-1.0	0.37	0.43			
	48-80	15-25	1.55-1.75	0.20-0.60	0.08-0.12	Low	0.0-0.5	0.32	0.37			
BeA: Bennington-----	0-10	15-25	1.30-1.50	0.60-2.00	0.17-0.21	Low	2.0-4.0	0.37	0.43	4	6	48
	10-54	35-42	1.40-1.70	0.06-0.20	0.10-0.17	Moderate	0.5-1.0	0.32	0.37			
	54-80	24-33	1.65-1.80	0.06-0.20	0.07-0.12	Low	0.0-0.5	0.32	0.37			
BeB: Bennington-----	0-9	15-25	1.30-1.50	0.60-2.00	0.17-0.21	Low	2.0-4.0	0.37	0.43	4	6	48
	9-55	35-42	1.40-1.70	0.06-0.20	0.10-0.17	Moderate	0.5-1.0	0.32	0.37			
	55-80	24-33	1.65-1.80	0.06-0.20	0.07-0.12	Low	0.0-0.5	0.32	0.37			
BoA: Blount-----	0-9	22-27	1.30-1.50	0.60-2.00	0.20-0.24	Low	2.0-4.0	0.43	0.43	4	6	48
	9-27	35-48	1.40-1.70	0.06-0.20	0.12-0.19	Moderate	0.0-1.0	0.32	0.37			
	27-38	27-40	1.70-1.90	0.06-0.20	0.07-0.15	Moderate	0.0-0.5	0.32	0.37			
	38-80	27-40	1.80-2.00	0.01-0.20	0.01-0.05	Moderate	0.0-0.5	0.32	0.37			
BoB: Blount-----	0-8	22-27	1.30-1.50	0.60-2.00	0.20-0.24	Low	2.0-4.0	0.43	0.43	4	6	48

	8-32	35-48	1.40-1.70	0.06-0.20	0.12-0.19	Moderate	0.0-1.0	0.32	0.37			
	32-42	27-40	1.70-1.90	0.06-0.20	0.07-0.15	Moderate	0.0-0.5	0.32	0.37			
	42-80	27-40	1.80-2.00	0.01-0.20	0.01-0.05	Moderate	0.0-0.5	0.32	0.37			
CaB:												
Cardington-----	0-8	12-27	1.30-1.50	0.60-2.00	0.18-0.23	Low	1.0-3.0	0.37	0.37	4	6	48
	8-38	35-42	1.45-1.70	0.06-0.20	0.10-0.17	Moderate	0.5-1.0	0.37	0.43			
	38-80	24-33	1.65-1.82	0.06-0.20	0.07-0.12	Low	0.0-0.5	0.37	0.43			
CaC2:												
Cardington-----	0-9	12-27	1.30-1.50	0.60-2.00	0.18-0.23	Low	0.5-3.0	0.37	0.37	4	6	48
	9-43	35-42	1.45-1.70	0.06-0.20	0.10-0.17	Moderate	0.5-1.0	0.37	0.43			
	43-80	24-33	1.65-1.82	0.06-0.20	0.07-0.12	Low	0.0-0.5	0.37	0.43			
CeB:												
Centerburg-----	0-6	10-22	1.25-1.45	0.60-2.00	0.18-0.24	Low	1.0-3.0	0.37	0.37	5	5	56
	6-12	20-35	1.40-1.70	0.60-2.00	0.15-0.22	Moderate	0.0-1.0	0.37	0.43			
	12-50	25-35	1.45-1.70	0.20-0.60	0.15-0.19	Moderate	0.0-0.5	0.32	0.37			
	50-80	15-25	1.55-1.75	0.20-0.60	0.05-0.12	Low	0.0-0.5	0.32	0.37			
CeC2:												
Centerburg-----	0-7	10-22	1.25-1.45	0.60-2.00	0.18-0.24	Low	0.5-3.0	0.37	0.37	5	5	56
	7-31	25-35	1.45-1.70	0.20-0.60	0.15-0.19	Moderate	0.0-0.5	0.37	0.43			
	31-80	15-25	1.55-1.75	0.20-0.60	0.05-0.12	Low	0.0-0.5	0.32	0.37			
CnA:												
Condit-----	0-10	18-27	1.30-1.50	0.60-2.00	0.19-0.23	Low	2.0-4.0	0.37	0.37	4	6	48
	10-70	30-40	1.45-1.75	0.06-0.20	0.08-0.16	Moderate	0.5-2.0	0.32	0.37			
	70-80	27-36	1.65-1.80	0.06-0.20	0.07-0.12	Moderate	0.0-0.5	0.32	0.37			
EdA:												
Edwards-----	0-19	---	0.30-0.55	0.20-6.00	0.35-0.45		55-75	---	---	1	2	134
	19-80	3-6	---	0.06-0.60	---		---	---	---			

TABLE 21.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued
 [PART I.]

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea- bility	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	In/hr	In/in		Pct					
GaC2: Gallman-----	0-7	10-25	1.30-1.45	0.60-2.00	0.14-0.20	Low	0.5-3.0	0.32	0.37	5	5	56
	7-50	15-30	1.45-1.65	2.00-6.00	0.10-0.16	Low	0.0-1.0	0.24	0.32			
	50-80	15-27	1.30-1.50	2.00-6.00	0.08-0.14	Low	0.0-0.5	0.32	0.43			
GbA: Gallman-----	0-10	10-25	1.30-1.50	0.60-2.00	0.14-0.20	Low	1.0-3.0	0.32	0.37	5	5	56
	10-56	15-30	1.45-1.65	2.00-6.00	0.10-0.16	Low	0.0-1.0	0.24	0.32			
	56-80	15-27	1.30-1.50	2.00-6.00	0.08-0.14	Low	0.0-0.5	0.32	0.43			
GbB: Gallman-----	0-9	10-25	1.30-1.50	0.60-2.00	0.14-0.20	Low	1.0-3.0	0.32	0.37	5	5	56
	9-73	15-30	1.45-1.65	2.00-6.00	0.10-0.16	Low	0.0-1.0	0.24	0.32			
	73-80	15-27	1.30-1.50	2.00-6.00	0.08-0.14	Low	0.0-0.5	0.32	0.43			
GcB: Gallman-----	0-12	14-27	1.30-1.50	0.60-2.00	0.14-0.20	Low	1.0-3.0	0.37	0.37	5	6	48
	12-60	10-35	1.45-1.65	2.00-6.00	0.10-0.16	Low	0.0-0.5	0.24	0.32			
	60-65	2-10	1.45-1.60	2.00-6.00	0.05-0.10	Low	0.0-0.5	0.28	0.43			
	65-80	14-35	1.50-1.75	0.06-0.60	0.05-0.12	Moderate	0.0-0.5	0.32	0.37			
GwB: Glynwood-----	0-8	16-27	1.25-1.50	0.60-2.00	0.20-0.24	Low	1.0-3.0	0.43	0.43	4	6	48
	8-25	35-55	1.45-1.70	0.06-0.20	0.12-0.19	Moderate	0.5-1.0	0.32	0.37			
	25-33	27-40	1.70-1.90	0.06-0.20	0.07-0.15	Moderate	0.0-0.5	0.32	0.37			
	33-80	27-40	1.80-2.00	0.01-0.20	0.01-0.05	Moderate	0.0-0.5	0.32	0.37			
GwC2: Glynwood-----	0-7	16-27	1.25-1.50	0.60-2.00	0.20-0.24	Low	0.5-3.0	0.43	0.43	4	6	48
	7-22	35-55	1.45-1.70	0.06-0.20	0.12-0.19	Moderate	0.5-1.0	0.32	0.37			
	22-36	27-40	1.70-1.90	0.06-0.20	0.07-0.15	Moderate	0.0-0.5	0.32	0.37			
	36-80	27-40	1.80-2.00	0.01-0.20	0.01-0.05	Moderate	0.0-0.5	0.32	0.37			
GzC3: Glynwood-----	0-7	27-38	1.35-1.55	0.20-0.60	0.17-0.23	Moderate	0.5-2.0	0.43	0.43	3	7	38
	7-18	35-55	1.45-1.70	0.06-0.20	0.12-0.19	Moderate	0.5-1.0	0.32	0.37			
	18-36	27-40	1.70-1.90	0.06-0.20	0.07-0.15	Moderate	0.0-0.5	0.32	0.37			

	36-80	27-40	1.80-2.00	0.01-0.20	0.01-0.05	Moderate	0.0-0.5	0.32	0.37			
HeF:												
Heverlo-----	0-10	15-25	1.25-1.45	0.60-2.00	0.20-0.24	Low	1.0-3.0	0.37	0.43	3	5	56
	10-27	35-45	1.45-1.60	0.60-2.00	0.12-0.17	Moderate	0.0-1.0	0.28	0.43			
	27-37	---	---	0.00-0.20	---		---	---	---			
HyA:												
Hyatts-----	0-11	15-25	1.30-1.50	0.60-2.00	0.17-0.21	Low	2.0-4.0	0.43	0.43	4	6	48
	11-35	35-42	1.40-1.70	0.06-0.60	0.10-0.17	Moderate	0.0-1.0	0.32	0.37			
	35-46	35-55	1.35-1.60	0.06-0.20	0.09-0.17	Moderate	0.0-0.5	0.32	0.37			
	46-56	---	---	0.00-0.20	---		---	---	---			
HyB:												
Hyatts-----	0-9	15-25	1.30-1.50	0.60-2.00	0.17-0.21	Low	2.0-4.0	0.43	0.43	4	6	48
	9-50	35-42	1.40-1.70	0.06-0.60	0.10-0.17	Moderate	0.0-1.0	0.32	0.37			
	50-58	35-55	1.35-1.60	0.06-0.20	0.09-0.17	Moderate	0.0-0.5	0.32	0.37			
	58-68	---	---	0.00-0.20	---		---	---	---			
JmA:												
Jimtown-----	0-10	10-24	1.30-1.50	0.60-2.00	0.18-0.22	Low	2.0-3.0	0.32	0.37	5	5	56
	10-47	18-32	1.25-1.60	0.60-2.00	0.10-0.18	Low	0.5-1.0	0.32	0.43			
	47-80	12-25	1.25-1.65	2.00-6.00	0.04-0.10	Low	0.1-0.3	0.17	0.24			
LbF:												
Latham-----	0-3	20-27	1.30-1.50	0.60-2.00	0.16-0.20	Low	1.0-3.0	0.43	0.43	3	6	48
	3-30	35-55	1.35-1.55	0.06-0.20	0.09-0.17	High	0.0-1.0	0.32	0.43			
	30-40	---	---	0.00-0.20	---		---	---	---			
Brecksville-----	0-3	15-27	1.30-1.50	0.60-2.00	0.19-0.23	Low	1.0-3.0	0.37	0.37	3	6	48
	3-22	30-40	1.40-1.60	0.20-0.60	0.10-0.18	Moderate	0.0-0.5	0.37	0.49			
	22-32	---	---	0.00-0.20	---		---	---	---			
LeE:												
Leoni-----	0-7	15-27	1.30-1.70	0.60-6.00	0.08-0.15	Low	1.0-3.0	0.32	0.24	3	8	86
	7-37	10-35	1.30-1.70	0.60-6.00	0.07-0.15	Moderate	0.0-0.5	0.24	0.24			
	37-80	5-20	1.20-1.50	2.00-20.00	0.02-0.08	Low	0.0-0.2	0.10	0.24			

TABLE 21.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued
 [PART I.]

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea- bility	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	In/hr	In/in		Pct					
LoA:												
Lobdell-----	0-9	15-27	1.20-1.40	0.60-2.00	0.20-0.24	Low	1.0-3.0	0.37	0.37	5	5	56
	9-48	18-30	1.25-1.60	0.60-2.00	0.15-0.20	Low	0.0-0.5	0.32	0.49			
	48-65	15-25	1.20-1.60	0.60-6.00	0.07-0.16	Low	0.0-0.5	0.28	0.55			
LsA:												
Lobdell-----	0-11	15-27	1.20-1.40	0.60-2.00	0.20-0.24	Low	1.0-3.0	0.37	0.37	5	5	56
	11-44	18-30	1.25-1.60	0.60-2.00	0.17-0.22	Low	0.5-1.0	0.32	0.37			
	44-80	15-25	1.20-1.60	0.60-6.00	0.07-0.16	Low	0.0-0.5	0.28	0.55			
Sloan-----	0-8	20-27	1.30-1.50	0.60-2.00	0.19-0.24	Low	3.0-6.0	0.28	0.28	5	6	48
	8-19	27-40	1.30-1.60	0.20-2.00	0.18-0.22	Moderate	3.0-6.0	0.28	0.28			
	19-25	15-35	1.25-1.60	0.20-2.00	0.16-0.22	Low	0.5-2.0	0.32	0.32			
	25-64	15-30	1.25-1.60	0.60-2.00	0.08-0.18	Low	0.5-2.0	0.32	0.37			
	64-80	27-35	1.50-1.75	0.06-0.60	0.07-0.12	Moderate	0.0-0.5	0.32	0.37			
LvB:												
Loudonville-----	0-12	13-22	1.30-1.50	0.60-2.00	0.16-0.20	Low	1.0-3.0	0.37	0.37	2	5	56
	12-33	20-34	1.35-1.60	0.60-2.00	0.14-0.18	Moderate	0.0-1.0	0.32	0.37			
	33-34	---	---	0.00-2.00	---		---	---	---			
LyD2:												
Lybrand-----	0-9	18-27	1.35-1.55	0.60-2.00	0.20-0.24	Low	0.5-3.0	0.43	0.43	4	6	48
	9-33	35-50	1.55-1.75	0.06-0.20	0.12-0.19	Moderate	0.5-2.0	0.32	0.37			
	33-45	27-40	1.70-1.90	0.06-0.20	0.07-0.15	Moderate	0.0-0.5	0.32	0.37			
	45-80	27-40	1.80-2.00	0.01-0.20	0.01-0.05	Moderate	0.5-1.0	0.32	0.37			
LyE2:												
Lybrand-----	0-7	18-27	1.35-1.55	0.60-2.00	0.20-0.24	Low	0.5-3.0	0.43	0.43	4	6	48
	7-25	35-50	1.55-1.75	0.06-0.20	0.12-0.19	Moderate	0.5-2.0	0.32	0.37			
	25-37	27-40	1.70-1.90	0.06-0.20	0.07-0.15	Moderate	0.0-0.5	0.32	0.37			
	37-80	27-40	1.80-2.00	0.01-0.20	0.01-0.05	Moderate	0.5-1.0	0.32	0.37			
LzD3:												
Lybrand-----	0-2	27-35	1.35-1.50	0.20-0.60	0.20-0.22	Moderate	0.5-2.0	0.43	0.43	3	7	38
	2-15	35-50	1.55-1.75	0.06-0.20	0.12-0.19	Moderate	0.5-2.0	0.32	0.37			
	15-32	27-40	1.70-1.90	0.06-0.20	0.07-0.15	Moderate	0.0-0.5	0.32	0.37			

	32-80	27-40	1.80-2.00	0.01-0.20	0.01-0.05	Moderate	0.5-1.0	0.32	0.37			
MaB:												
Martinsville----	0-7	8-20	1.30-1.60	0.60-2.00	0.18-0.24	Low	1.0-3.0	0.32	0.37	5	5	56
	7-40	20-33	1.40-1.60	0.60-2.00	0.15-0.19	Moderate	0.0-0.5	0.32	0.37			
	40-80	15-30	1.40-1.65	0.60-2.00	0.10-0.19	Low	0.0-0.5	0.24	0.24			
MbB:												
Martinsville----	0-11	10-22	1.30-1.40	0.60-2.00	0.20-0.24	Low	1.0-3.0	0.37	0.37	5	5	56
	11-55	15-31	1.40-1.65	0.60-2.00	0.15-0.20	Moderate	0.0-0.5	0.37	0.37			
	55-65	5-20	1.55-1.65	0.60-6.00	0.06-0.12	Moderate	0.0-0.5	0.37	0.37			
	65-80	15-27	1.65-1.70	0.06-0.60	0.08-0.13	Low	0.0-0.5	0.28	0.32			
McD2:												
Mentor-----	0-7	16-24	1.30-1.50	0.60-2.00	0.20-0.24	Low	0.5-3.0	0.37	0.37	5	5	56
	7-62	16-35	1.40-1.60	0.60-2.00	0.18-0.20	Low	0.0-0.5	0.37	0.37			
	62-80	13-25	1.20-1.50	0.60-2.00	0.12-0.18	Low	0.0-0.5	0.37	0.37			
MfA:												
Millgrove-----	0-12	18-27	1.30-1.50	0.60-2.00	0.20-0.24	Low	3.0-8.0	0.24	0.32	4	6	48
	12-38	18-35	1.40-1.70	0.60-2.00	0.12-0.16	Moderate	0.5-2.0	0.24	0.32			
	38-50	15-30	1.25-1.60	0.60-2.00	0.08-0.15	Low	0.5-1.0	0.20	0.43			
	50-80	5-18	1.25-1.60	2.00-6.00	0.08-0.12	Low	0.0-0.5	0.28	0.55			
MgA:												
Millgrove-----	0-15	27-32	1.35-1.55	0.60-2.00	0.19-0.23	Moderate	3.0-8.0	0.24	0.32	4	7	38
	15-45	18-35	1.40-1.70	0.60-2.00	0.12-0.16	Moderate	0.5-2.0	0.24	0.32			
	45-55	15-30	1.25-1.60	0.60-2.00	0.08-0.15	Low	0.5-1.0	0.20	0.43			
	55-80	5-18	1.25-1.60	2.00-6.00	0.08-0.12	Low	0.0-0.5	0.28	0.55			
MhA:												
Millgrove-----	0-10	27-35	1.30-1.50	0.60-2.00	0.18-0.22	Moderate	3.0-8.0	0.24	0.28	4	7	38
	10-27	18-35	1.40-1.70	0.60-2.00	0.12-0.16	Moderate	0.0-1.0	0.24	0.28			
	27-34	18-35	1.25-1.60	0.60-2.00	0.08-0.15	Low	0.0-0.5	0.28	0.28			
	34-80	5-20	1.25-1.60	2.00-6.00	0.02-0.06	Low	0.0-0.5	0.24	0.32			

TABLE 21.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued
 [PART I.]

Map symbol and soil name	Depth	Clay	Moist bulk density	Permea- bility	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	In/hr	In/in		Pct					
MoB: Milton-----	0-10	14-27	1.30-1.50	0.60-2.00	0.18-0.23	Low	1.0-3.0	0.37	0.37	2	6	48
	10-28	35-50	1.45-1.65	0.20-2.00	0.12-0.18	Moderate	0.5-1.0	0.32	0.37			
	28-31	25-45	1.40-1.70	0.20-2.00	0.12-0.16	Moderate	0.0-0.5	0.32	0.37			
	31-32	---	---	0.00-0.60	---		---	---	---			
MoC2: Milton-----	0-10	14-27	1.30-1.50	0.60-2.00	0.18-0.23	Low	0.5-3.0	0.37	0.37	2	6	48
	10-28	35-50	1.45-1.65	0.20-2.00	0.12-0.18	Moderate	0.5-1.0	0.32	0.37			
	28-29	---	---	0.00-0.60	---		---	---	---			
MpD2: Milton-----	0-8	14-27	1.30-1.50	0.60-2.00	0.18-0.23	Low	0.5-3.0	0.37	0.37	2	6	48
	8-22	35-50	1.45-1.65	0.20-2.00	0.12-0.18	Moderate	0.5-1.0	0.32	0.37			
	22-23	---	---	0.00-0.60	---		---	---	---			
Lybrand-----	0-7	18-27	1.35-1.55	0.60-2.00	0.20-0.24	Low	0.5-3.0	0.43	0.43	4	6	48
	7-30	35-50	1.55-1.75	0.06-0.20	0.12-0.19	Moderate	0.5-2.0	0.32	0.37			
	30-48	27-40	1.70-1.90	0.06-0.20	0.07-0.15	Moderate	0.0-0.5	0.32	0.37			
	48-80	27-40	1.80-2.00	0.01-0.20	0.01-0.05	Moderate	0.5-1.0	0.32	0.37			
PaA: Pacer-----	0-14	14-27	1.30-1.50	0.60-2.00	0.20-0.23	Low	3.0-5.0	0.37	0.37	5	6	48
	14-51	20-35	1.45-1.60	0.60-2.00	0.04-0.12	Moderate	1.0-3.0	0.28	0.43			
	51-80	14-27	1.65-2.00	0.01-0.60	0.07-0.12	Moderate	0.5-2.0	0.32	0.37			
PwA: Pewamo-----	0-13	27-40	1.35-1.55	0.60-2.00	0.20-0.23	Moderate	3.0-5.0	0.28	0.28	5	7	38
	13-57	35-50	1.40-1.70	0.20-0.60	0.12-0.20	Moderate	0.5-2.0	0.32	0.32			
	57-80	27-38	1.50-1.70	0.20-0.60	0.14-0.18	Moderate	0.0-1.0	0.32	0.37			
Pz: Pits.												
RdB2: Rarden-----	0-3	17-27	1.30-1.50	0.60-2.00	0.21-0.24	Low	0.5-3.0	0.43	0.43	3	6	48
	3-33	35-60	1.50-1.70	0.06-0.20	0.10-0.14	High	0.0-1.0	0.32	0.43			

	33-43	---	---	0.00-0.20	---		---	---	---			
RdC2:												
Rarden-----	0-3	17-27	1.30-1.50	0.60-2.00	0.21-0.24	Low	0.5-3.0	0.43	0.43	3	6	48
	3-34	35-60	1.50-1.70	0.06-0.20	0.10-0.14	High	0.0-1.0	0.32	0.43			
	34-44	---	---	0.00-0.20	---		---	---	---			
RdF2:												
Rarden-----	0-3	17-27	1.30-1.50	0.60-2.00	0.21-0.24	Low	0.5-3.0	0.43	0.43	3	6	48
	3-38	35-60	1.50-1.70	0.06-0.20	0.10-0.14	High	0.0-1.0	0.32	0.43			
	38-48	---	---	0.00-0.20	---		---	---	---			
RoA:												
Rosburg-----	0-20	13-27	1.20-1.50	0.60-2.00	0.19-0.24	Low	4.0-8.0	0.28	0.28	5	6	48
	20-67	15-27	1.25-1.60	0.60-2.00	0.15-0.22	Low	0.5-2.0	0.37	0.37			
	67-80	12-25	1.30-1.60	0.60-6.00	0.05-0.15	Low	0.5-2.0	0.24	0.32			
RsA:												
Rosburg-----	0-12	13-27	1.20-1.50	0.60-2.00	0.19-0.24	Low	4.0-8.0	0.28	0.28	5	6	48
	12-40	15-27	1.25-1.60	0.60-2.00	0.15-0.22	Low	0.5-2.0	0.37	0.37			
	40-80	12-25	1.30-1.60	0.60-6.00	0.05-0.15	Low	0.5-2.0	0.24	0.32			
Sloan-----	0-15	15-27	1.20-1.40	0.60-2.00	0.19-0.24	Low	3.0-6.0	0.28	0.28	5	6	48
	15-35	22-35	1.25-1.55	0.20-2.00	0.15-0.19	Moderate	0.5-1.0	0.32	0.37			
	35-80	10-30	1.20-1.50	0.20-2.00	0.13-0.18	Low	0.0-0.5	0.32	0.43			
ScA:												
Scioto-----	0-10	14-27	1.30-1.50	0.60-2.00	0.18-0.23	Low	1.0-3.0	0.37	0.37	3	6	48
	10-16	30-50	1.45-1.65	0.20-2.00	0.12-0.18	Moderate	0.5-3.0	0.24	0.28			
	16-51	15-35	1.50-1.70	0.60-6.00	0.02-0.10	Low	0.0-0.5	0.15	0.20			
	51-80	5-20	1.50-1.70	0.60-6.00	0.01-0.04	Low	0.0-0.5	0.10	0.24			
ScB:												
Scioto-----	0-12	14-27	1.30-1.50	0.60-2.00	0.18-0.23	Low	1.0-3.0	0.37	0.37	3	6	48
	12-20	30-50	1.45-1.65	0.20-2.00	0.12-0.18	Moderate	0.5-3.0	0.24	0.28			
	20-37	15-35	1.50-1.70	0.60-6.00	0.02-0.10	Low	0.0-0.5	0.15	0.20			
	37-80	5-20	1.50-1.70	0.60-6.00	0.01-0.04	Low	0.0-0.5	0.10	0.24			

Smothers-----	0-10	15-25	1.30-1.50	0.60-2.00	0.17-0.21	Low	2.0-4.0	0.37	0.43	2	6	48
	10-22	35-45	1.40-1.70	0.06-0.60	0.10-0.17	Moderate	0.0-1.0	0.28	0.32			
	22-30	35-55	1.40-1.70	0.06-0.20	0.11-0.15	Moderate	0.0-1.0	0.32	0.37			
	30-31	---	---	0.00-2.00	---		---	---	---			
SsB:												
Smothers-----	0-9	15-25	1.30-1.50	0.60-2.00	0.17-0.21	Low	2.0-4.0	0.37	0.43	2	6	48
	9-29	35-45	1.40-1.70	0.06-0.60	0.10-0.17	Moderate	0.0-1.0	0.28	0.32			
	29-33	35-55	1.40-1.70	0.06-0.20	0.11-0.15	Moderate	0.0-1.0	0.32	0.37			
	33-34	---	---	0.00-2.00	---		---	---	---			
StA:												
Stone-----	0-12	27-35	1.15-1.45	0.20-0.60	0.18-0.22	Moderate	3.0-6.0	0.28	0.32	3	7	38
	12-20	27-40	1.30-1.55	0.20-0.60	0.14-0.18	Moderate	0.5-2.0	0.28	0.32			
	20-30	12-27	1.30-1.55	0.60-2.00	0.10-0.16	Moderate	0.5-1.0	0.28	0.32			
	30-42	12-27	1.35-1.60	0.60-6.00	0.04-0.10	Low	0.0-0.5	0.20	0.28			
	42-43	---	---	0.00-0.60	---		---	---	---			
SuA:												
Stone-----	0-12	27-35	1.15-1.45	0.20-0.60	0.18-0.22	Moderate	3.0-6.0	0.28	0.28	3	7	38
	12-29	27-40	1.30-1.55	0.20-0.60	0.14-0.18	Moderate	0.5-2.0	0.28	0.32			
	29-34	12-27	1.30-1.55	0.60-2.00	0.10-0.16	Moderate	0.5-1.0	0.28	0.32			
	34-44	12-27	1.35-1.60	0.60-6.00	0.04-0.10	Low	0.0-0.5	0.20	0.28			
	44-45	---	---	0.00-0.60	---		---	---	---			
Uc:												
Udorthents.												
UdB:												
Udorthents.												
Urban Land.												
Up:												
Udorthents.												
Pits.												

TABLE 21.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued
 [PART II.]

Map symbol and soil name	Depth	Clay	Cation- exchange capacity	Soil reaction	Calcium carbonate
	In	Pct	meq/100g	pH	Pct
AmD2:					
Amanda-----	0-9	12-27	10.0-20.0	4.5-7.3	---
	9-42	23-35	10.0-20.0	4.5-5.5	---
	42-80	15-25	6.0-16.0	6.6-8.4	0-22
AmE:					
Amanda-----	0-9	12-27	10.0-20.0	4.5-7.3	---
	9-43	23-35	10.0-20.0	4.5-5.5	---
	43-80	15-25	6.0-16.0	6.6-8.4	0-22
AmF:					
Amanda-----	0-8	12-27	10.0-20.0	4.5-7.3	---
	8-48	23-35	10.0-20.0	4.5-5.5	---
	48-80	15-25	6.0-16.0	6.6-8.4	0-22
BeA:					
Bennington-----	0-10	15-25	12.0-20.0	4.5-7.3	---
	10-54	35-42	20.0-26.0	4.5-8.4	0-10
	54-80	24-33	9.0-20.0	7.4-8.4	10-20
BeB:					
Bennington-----	0-9	15-25	12.0-20.0	4.5-7.3	---
	9-55	35-42	20.0-26.0	4.5-8.4	0-10
	55-80	24-33	9.0-20.0	7.4-8.4	10-20
BoA:					
Blount-----	0-9	22-27	17.0-22.0	5.1-7.3	---
	9-27	35-48	21.0-30.0	4.5-6.5	---
	27-38	27-40	16.0-25.0	6.1-7.8	0-25
	38-80	27-40	11.0-24.0	7.4-8.4	22-35
BoB:					
Blount-----	0-8	22-27	17.0-22.0	5.1-7.3	---
	8-32	35-48	21.0-30.0	4.5-6.5	---
	32-42	27-40	16.0-25.0	6.1-7.8	0-25
	42-80	27-40	11.0-24.0	7.4-8.4	22-35

CaB:					
Cardington-----	0-8	12-27	12.0-18.0	4.5-7.3	---
	8-38	35-42	18.0-24.0	4.5-7.8	0-10
	38-80	24-33	9.0-20.0	7.4-8.4	8-22
CaC2:					
Cardington-----	0-9	12-27	12.0-18.0	4.5-7.3	---
	9-43	35-42	18.0-24.0	4.5-7.8	0-10
	43-80	24-33	9.0-20.0	7.4-8.4	8-22
CeB:					
Centerburg-----	0-6	10-22	6.0-18.0	4.5-7.3	---
	6-12	20-35	8.0-23.0	4.5-6.0	---
	12-50	25-35	10.0-22.0	5.1-7.8	0-10
	50-80	15-25	6.0-16.0	6.6-8.4	0-22
CeC2:					
Centerburg-----	0-7	10-22	6.0-18.0	4.5-7.3	---
	7-31	25-35	8.0-23.0	5.1-7.8	---
	31-80	15-25	6.0-16.0	6.6-8.4	0-22
CnA:					
Condit-----	0-10	18-27	14.0-26.0	4.5-7.3	---
	10-70	30-40	14.0-30.0	4.5-7.8	0-5
	70-80	27-36	9.0-22.0	7.4-8.4	5-20
EdA:					
Edwards-----	0-19	---	150-230	6.1-7.8	---
	19-80	3-6	1.0-10.0	7.4-8.4	50-90

TABLE 21.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued
 [PART II.]

Map symbol and soil name	Depth	Clay	Cation- exchange capacity	Soil reaction	Calcium carbonate
	In	Pct	meq/100g	pH	Pct
GaC2:					
Gallman-----	0-7	10-25	8.0-20.0	4.5-7.3	---
	7-50	15-30	8.0-18.0	4.5-7.3	---
	50-80	15-27	3.0-10.0	6.1-8.4	5-20
GbA:					
Gallman-----	0-10	10-25	8.0-20.0	5.1-7.3	---
	10-56	15-30	8.0-18.0	4.5-7.8	---
	56-80	15-27	7.0-14.0	6.1-8.4	5-20
GbB:					
Gallman-----	0-9	10-25	8.0-20.0	5.1-7.3	---
	9-73	15-30	8.0-18.0	4.5-7.8	---
	73-80	15-27	7.0-14.0	6.1-8.4	---
GcB:					
Gallman-----	0-12	14-27	15.0-22.0	5.6-7.3	---
	12-60	10-35	10.0-20.0	4.5-7.3	---
	60-65	2-10	5.0-15.0	4.5-8.4	0-25
	65-80	27-35	5.0-15.0	7.9-8.4	15-25
GwB:					
Glynwood-----	0-8	16-27	12.0-22.0	4.5-7.3	---
	8-25	35-55	20.0-33.0	4.5-7.8	0-10
	25-33	27-40	11.0-27.0	6.1-8.4	0-35
	33-80	27-40	11.0-24.0	7.4-8.4	22-35
GwC2:					
Glynwood-----	0-7	16-27	12.0-22.0	4.5-7.3	---
	7-22	35-55	20.0-33.0	4.5-7.8	0-10
	22-36	27-40	11.0-27.0	6.1-8.4	0-35
	36-80	27-40	11.0-24.0	7.4-8.4	22-35
GzC3:					
Glynwood-----	0-7	27-38	12.0-20.0	4.5-7.3	---
	7-18	35-55	20.0-33.0	4.5-7.8	0-10
	18-36	27-40	11.0-27.0	6.1-8.4	0-35

	36-80	27-40	11.0-24.0	7.4-8.4	22-35
HeF:					
Heverlo-----	0-10	15-25	5.0-10.0	5.6-7.8	---
	10-27	35-45	15.0-25.0	5.6-7.3	---
	27-37	---	---	---	---
HyA:					
Hyatts-----	0-11	15-25	15.0-19.0	4.5-7.3	---
	11-35	35-42	18.0-25.0	4.5-7.8	---
	35-46	35-55	18.0-25.0	5.6-8.4	0-10
	46-56	---	---	---	---
HyB:					
Hyatts-----	0-9	15-25	15.0-19.0	4.5-7.3	---
	9-50	35-42	18.0-25.0	4.5-7.8	---
	50-58	35-55	18.0-25.0	5.6-8.4	0-10
	58-68	---	---	---	---
JmA:					
Jimtown-----	0-10	10-24	10.0-18.0	4.5-7.3	---
	10-47	18-32	8.0-15.0	4.5-6.5	---
	47-80	12-25	6.0-12.0	5.1-8.4	0-10
LbF:					
Latham-----	0-3	20-27	6.0-17.0	3.5-5.5	---
	3-30	35-55	7.0-24.0	3.5-5.0	---
	30-40	---	---	---	---
Brecksville-----	0-3	15-27	8.0-22.0	3.5-5.5	---
	3-22	30-40	12.0-27.0	3.5-5.5	---
	22-32	---	---	---	---

TABLE 21.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued
 [PART II.]

Map symbol and soil name	Depth	Clay	Cation- exchange capacity	Soil reaction	Calcium carbonate
	In	Pct	meq/100g	pH	Pct
LeE:					
Leoni-----	0-7	15-27	10.0-20.0	7.4-8.4	0-5
	7-37	10-35	15.0-25.0	7.4-8.4	0-15
	37-80	5-20	2.0-10.0	7.4-8.4	10-40
LoA:					
Lobdell-----	0-9	15-27	8.0-17.0	5.1-7.3	---
	9-48	18-30	8.0-15.0	5.1-7.3	---
	48-65	15-25	7.0-13.0	5.6-7.3	---
LsA:					
Lobdell-----	0-11	15-27	8.0-17.0	5.1-7.3	---
	11-44	18-30	8.0-13.0	5.1-7.3	---
	44-80	15-25	7.0-13.0	5.6-7.3	---
Sloan-----	0-8	20-27	20.0-32.0	6.1-7.8	---
	8-19	27-40	20.0-35.0	6.1-7.8	---
	19-25	15-35	10.0-20.0	6.1-8.4	0-20
	25-64	15-30	8.0-15.0	6.1-8.4	0-20
	64-80	27-35	5.0-15.0	7.9-8.4	15-25
LvB:					
Loudonville-----	0-12	13-22	8.0-18.0	4.5-7.3	---
	12-33	20-34	8.0-22.0	4.5-6.0	---
	33-34	---	---	---	---
LyD2:					
Lybrand-----	0-9	18-27	18.0-23.0	5.1-7.3	---
	9-33	35-50	16.0-25.0	5.1-8.4	0-20
	33-45	27-40	13.0-23.0	7.4-8.4	10-35
	45-80	27-40	13.0-18.0	7.9-8.4	22-35
LyE2:					
Lybrand-----	0-7	18-27	18.0-23.0	5.1-7.3	---
	7-25	35-50	16.0-25.0	5.1-8.4	0-20
	25-37	27-40	13.0-23.0	7.4-8.4	10-35
	37-80	27-40	13.0-18.0	7.9-8.4	22-35

LzD3:					
Lybrand-----	0-2	27-35	18.0-25.0	5.1-7.8	0-5
	2-15	35-50	16.0-25.0	5.1-8.4	0-20
	15-32	27-40	13.0-23.0	7.4-8.4	10-35
	32-80	27-40	13.0-18.0	7.9-8.4	22-35
MaB:					
Martinsville----	0-7	8-20	5.0-16.0	5.1-7.3	---
	7-40	20-33	8.0-17.0	5.1-7.3	---
	40-80	15-30	2.0-12.0	5.6-7.8	0-10
MbB:					
Martinsville----	0-11	10-22	6.0-18.0	5.6-7.3	---
	11-55	15-31	8.0-20.0	5.1-7.3	---
	55-65	5-20	6.0-17.0	6.1-8.4	0-10
	65-80	15-27	3.0-9.0	7.4-8.4	5-25
McD2:					
Mentor-----	0-7	16-24	8.0-20.0	4.5-7.3	---
	7-62	16-35	8.0-20.0	4.5-6.5	---
	62-80	13-25	5.0-18.0	5.1-8.4	0-15
MfA:					
Millgrove-----	0-12	18-27	15.0-30.0	5.6-7.3	---
	12-38	18-35	10.0-18.0	6.1-7.8	---
	38-50	15-30	7.0-15.0	6.1-7.8	0-5
	50-80	5-18	3.0-10.0	7.4-8.4	10-25
MgA:					
Millgrove-----	0-15	27-32	20.0-32.0	5.6-7.3	---
	15-45	18-35	10.0-18.0	6.1-7.8	---
	45-55	15-30	7.0-15.0	6.1-7.8	0-5
	55-80	5-18	3.0-10.0	7.4-8.4	10-25

TABLE 21.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued
 [PART II.]

Map symbol and soil name	Depth	Clay	Cation- exchange capacity	Soil reaction	Calcium carbonate
	In	Pct	meq/100g	pH	Pct
MhA:					
Millgrove-----	0-10	27-35	20.0-35.0	5.6-7.3	---
	10-27	18-35	15.0-30.0	6.1-7.8	0-5
	27-34	18-35	10.0-20.0	7.4-8.4	5-30
	34-80	5-20	5.0-12.0	7.4-8.4	15-40
MoB:					
Milton-----	0-10	14-27	10.0-22.0	4.5-7.3	---
	10-28	35-50	16.0-30.0	4.5-7.8	---
	28-31	25-45	10.0-27.0	6.1-8.4	5-15
	31-32	---	---	---	---
MoC2:					
Milton-----	0-10	14-27	10.0-22.0	4.5-7.3	---
	10-28	35-50	16.0-30.0	4.5-7.8	---
	28-29	---	---	---	---
MpD2:					
Milton-----	0-8	14-27	10.0-22.0	4.5-7.3	---
	8-22	35-50	16.0-30.0	4.5-7.8	---
	22-23	---	---	---	---
Lybrand-----	0-7	18-27	18.0-23.0	5.1-7.3	---
	7-30	35-50	16.0-25.0	5.1-8.4	0-20
	30-48	27-40	13.0-23.0	7.4-8.4	10-35
	48-80	27-40	13.0-18.0	7.9-8.4	22-35
PaA:					
Pacer-----	0-14	14-27	15.0-21.0	5.6-7.3	---
	14-51	20-35	14.0-19.0	5.6-7.3	---
	51-80	14-27	11.0-18.0	7.4-8.4	10-25
PwA:					
Pewamo-----	0-13	27-40	10.0-25.0	6.1-7.3	---
	13-57	35-50	10.0-20.0	5.6-7.8	0-5
	57-80	27-38	5.0-15.0	7.4-8.4	15-30

Pz:					
Pits.					
RdB2:					
Rarden-----	0-3	17-27	5.0-17.0	3.6-6.5	---
	3-33	35-60	7.0-26.0	4.5-7.8	---
	33-43	---	---	---	---
RdC2:					
Rarden-----	0-3	17-27	5.0-17.0	3.6-6.5	---
	3-34	35-60	7.0-26.0	4.5-7.8	---
	34-44	---	---	---	---
RdF2:					
Rarden-----	0-3	17-27	5.0-17.0	3.6-6.5	---
	3-38	35-60	7.0-26.0	4.5-5.5	---
	38-48	---	---	---	---
RoA:					
Rossburg-----	0-20	13-27	13.0-32.0	6.1-7.8	---
	20-67	15-27	8.0-22.0	6.1-7.8	---
	67-80	12-25	2.0-15.0	6.6-8.4	0-30
RsA:					
Rossburg-----	0-12	13-27	13.0-32.0	6.1-7.8	---
	12-40	15-27	8.0-22.0	6.1-7.8	---
	40-80	12-25	2.0-15.0	6.6-8.4	0-30
Sloan-----	0-15	15-27	13.0-26.0	6.1-7.8	---
	15-35	22-35	10.0-20.0	6.1-8.4	0-20
	35-80	10-30	4.0-18.0	6.6-8.4	5-40

TABLE 21.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued
 [PART II.]

Map symbol and soil name	Depth	Clay	Cation- exchange capacity	Soil reaction	Calcium carbonate
	In	Pct	meq/100g	pH	Pct
ScA:					
Scioto-----	0-10	14-27	15.0-22.0	5.6-7.3	---
	10-16	30-50	20.0-30.0	5.6-7.8	0-40
	16-51	15-35	10.0-20.0	6.6-8.4	0-60
	51-80	5-20	2.0-10.0	7.9-8.4	40-75
ScB:					
Scioto-----	0-12	14-27	15.0-22.0	5.6-7.3	---
	12-20	30-50	20.0-30.0	5.6-7.8	0-40
	20-37	15-35	10.0-20.0	6.6-8.4	0-60
	37-80	5-20	2.0-10.0	7.9-8.4	40-75
SdC2:					
Scioto-----	0-5	27-33	17.0-27.0	5.6-7.3	---
	5-15	30-50	20.0-30.0	5.6-7.8	0-40
	15-55	15-35	10.0-20.0	6.6-8.4	0-60
	55-80	5-20	2.0-10.0	7.9-8.4	40-75
SfA:					
Scioto-----	0-14	14-27	15.0-22.0	5.6-7.3	---
	14-20	30-50	20.0-30.0	5.6-7.8	0-40
	20-40	15-35	10.0-20.0	6.6-8.4	0-60
	40-80	5-20	2.0-10.0	7.9-8.4	40-75
SgA:					
Shoals-----	0-10	18-27	12.0-27.0	6.6-7.8	0-5
	10-29	18-27	8.0-24.0	6.6-7.8	0-10
	29-60	12-25	3.0-19.0	6.6-8.4	0-25
SkA:					
Sloan-----	0-12	15-27	13.0-26.0	6.1-7.8	---
	12-48	22-35	10.0-20.0	6.1-8.4	0-20
	48-80	10-30	4.0-18.0	6.6-8.4	5-40
SnA:					
Sloan-----	0-13	20-27	20.0-32.0	6.1-7.8	---
	13-19	27-40	20.0-35.0	6.1-7.8	---

	19-37	15-35	10.0-20.0	6.1-8.4	0-20
	37-61	15-27	8.0-15.0	6.1-8.4	0-20
	61-80	27-35	5.0-15.0	7.9-8.4	15-25
SoA:					
Sloan-----	0-12	27-35	20.0-35.0	6.1-7.8	---
	12-22	27-40	20.0-35.0	6.1-7.8	---
	22-47	15-35	10.0-20.0	6.1-8.4	0-20
	47-75	15-30	8.0-15.0	6.1-8.4	0-20
	75-80	27-35	5.0-15.0	7.9-8.4	15-25
SsA:					
Smothers-----	0-10	15-25	16.0-20.0	5.1-7.3	---
	10-22	35-45	19.0-27.0	5.6-7.8	---
	22-30	35-55	10.0-25.0	5.6-7.8	---
	30-31	---	---	---	---
SsB:					
Smothers-----	0-9	15-25	16.0-20.0	5.1-7.3	---
	9-29	35-45	19.0-27.0	5.6-7.8	---
	29-33	35-55	10.0-25.0	5.6-7.8	---
	33-34	---	---	---	---
StA:					
Stone-----	0-12	27-35	20.0-35.0	6.1-7.8	---
	12-20	27-40	17.0-30.0	6.6-7.8	---
	20-30	12-27	10.0-25.0	6.6-8.4	0-25
	30-42	12-27	5.0-12.0	7.9-8.4	20-40
	42-43	---	---	---	---

TABLE 21.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued
 [PART II.]

Map symbol and soil name	Depth	Clay	Cation- exchange capacity	Soil reaction	Calcium carbonate
	In	Pct	meq/100g	pH	Pct
SuA:					
Stone-----	0-12	27-35	20.0-35.0	6.1-7.8	---
	12-29	27-40	17.0-30.0	6.6-7.8	---
	29-34	12-27	10.0-25.0	6.6-8.4	0-25
	34-44	12-27	5.0-12.0	7.9-8.4	20-40
	44-45	---	---	---	---
Uc:					
Udorthents.					
UdB:					
Udorthents.					
Urban Land.					
Up:					
Udorthents.					
Pits.					

