

(Absence of an entry indicates that the data were not estimated.)

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
AdA: Adamstown-----	0-16	Silt loam, loam	CL-ML, ML	A-4, A-6	0	0	95-100	80-100	80-95	40-85	15-30	3-11
	16-38	Gravelly silt loam, silt loam, silty clay loam, loam, clay loam	ML, CL-ML, CL	A-4, A-6	0	0	80-90	70-80	60-75	40-55	15-35	3-15
	38-76	Channery sandy loam, channery loam, channery sandy clay loam, very channery sandy loam	SM, SC-SM	A-4, A-7	0	0	75-80	65-70	55-60	35-45	20-45	3-20
AdB: Adamstown-----	0-16	Silt loam, loam	CL-ML, ML	A-4, A-6	0	0	95-100	80-100	80-95	40-85	15-30	3-11
	16-38	Gravelly silt loam, silt loam, silty clay loam, loam, clay loam	CL, ML, CL-ML	A-4, A-6	0	0	80-90	70-80	60-75	40-55	15-35	3-15
	38-76	Channery sandy loam, channery loam, channery sandy clay loam, very channery sandy loam	SM, SC-SM	A-4, A-7	0	0	75-80	65-70	55-60	35-45	20-45	3-20

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
AfB:												
Adamstown-----	0-16	Silt loam, loam	ML, CL-ML	A-4, A-6	0	0	95-100	80-100	80-95	40-85	15-30	3-11
	16-38	Silt loam, silty clay loam, loam, clay loam	CL, ML, CL-ML	A-4, A-6	0	0	80-90	70-80	60-75	40-55	15-35	3-15
	38-76	Channery sandy loam, channery loam, channery sandy clay loam, very channery sandy loam	SM, SC-SM	A-4, A-7	0	0	75-80	65-70	55-60	35-45	20-45	3-20
Funkstown-----	0-12	Gravelly silt loam, silt loam, gravelly loam	ML, CL	A-4, A-6	0	0	95-100	85-100	80-100	65-80	15-30	3-11
	12-29	Gravelly silt loam, gravelly silty clay loam, very gravelly loam	ML, SM, CL	A-2, A-4, A-6	0	0	65-90	60-85	55-80	30-70	15-35	3-15
	29-45	Silty clay loam, clay loam, loam	ML, CL	A-4, A-6, A-7	0	0	95-100	90-100	80-90	65-80	20-45	3-20
	45-80	Channery silt loam, channery silty clay loam, channery loam	CL, ML	A-4, A-6, A-7	0	0	65-90	60-85	55-80	50-70	20-45	3-20
ArB:												
Airmont-----	0-7	Extremely stony loam	SC-SM, ML, GM, CL	A-2, A-4	1-15	10-20	50-95	45-80	40-70	30-60	0-25	NP-10
	7-39	Cobbly clay loam, very cobbly sandy clay loam, very channery clay loam	CL, CL-ML, SC, SC-SM	A-2, A-4, A-6	0	10-40	80-90	60-75	50-75	30-60	25-35	5-15
	39-64	Very cobbly loam, very cobbly sandy loam, very channery loam	CL-ML, GC, CL, GC-GM	A-1, A-2, A- 4, A-6	0	20-45	60-75	55-65	30-60	20-55	20-35	5-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
ArD: Airmont-----	0-7	Extremely stony loam	GM, CL, ML, SC-SM	A-2, A-4	1-15	10-20	50-95	45-80	40-70	30-60	0-25	NP-10
	7-39	Cobbly clay loam, very cobbly sandy clay loam, very channery clay loam	SC-SM, SC, CL-ML, CL	A-2, A-4, A-6	0	10-40	80-90	60-75	50-75	30-60	25-35	5-15
	39-64	Very cobbly loam, very cobbly sandy loam, very channery loam	GC-GM, GC, CL-ML, CL	A-1, A-2, A- 4, A-6	0	20-45	60-75	55-65	30-60	20-55	20-35	5-15
AtB: Athol-----	0-7	Gravelly loam	ML, CL-ML	A-4	0	0-5	90-100	75-95	65-90	50-75	20-35	1-10
	7-47	Silt loam, gravelly silty clay loam, gravelly clay loam	ML	A-4	0	0-5	90-100	75-95	65-90	50-75	25-40	2-10
	47-61	Loam, gravelly silt loam, gravelly silty clay loam	SM, ML	A-2, A-4	0	0-5	90-100	65-85	60-80	30-65	20-40	NP-10
	61-72	Gravelly clay loam	GM, GW-GM, ML, SM	A-1, A-2, A-4	0-2	0-20	40-100	20-100	15-70	10-55	25-35	NP-7
AtC: Athol-----	0-7	Gravelly loam	ML, CL-ML	A-4	0	0-5	90-100	75-95	65-90	50-75	20-35	1-10
	7-47	Silt loam, gravelly silty clay loam, gravelly clay loam	ML	A-4	0	0-5	90-100	75-95	65-90	50-75	25-40	2-10
	47-61	Loam, gravelly silt loam, gravelly silty clay loam	SM, ML	A-2, A-4	0	0-5	90-100	65-85	60-80	30-65	20-40	NP-10
	61-72	Gravelly clay loam	SM, ML, GM, GW-GM	A-1, A-2, A-4	0-2	0-20	40-100	20-100	15-70	10-55	25-35	NP-7

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
BaB: Bagtown-----	0-8	Extremely stony loam	CL, GM, ML, SM	A-2, A-4	3-15	10-25	50-75	40-70	35-65	30-60	20-30	3-10
	8-15	Gravelly loam, gravelly sandy loam, gravelly silt loam	CL, SC, GC	A-4, A-2, A-6	0-2	0-7	60-80	40-70	35-65	30-60	25-40	9-20
	15-60	Gravelly loam, gravelly sandy loam, gravelly clay loam	CL, GC, SC	A-2, A-4, A-6	0-2	0-10	60-80	40-70	25-60	20-55	25-40	9-20
	60-73	Gravelly loam, gravelly sandy loam	CL, GC, SC	A-2, A-4, A-6	0-2	3-10	60-80	40-70	25-60	20-55	25-35	9-15
	73-93	Very channery loam, very channery sandy loam, very channery loamy sand	GC, GC-GM, SC	A-1, A-2-4	0-2	3-10	30-60	20-25	15-25	5-20	25-35	5-15
BaC: Bagtown-----	0-8	Extremely stony loam	CL, GM, ML, SM	A-2, A-4	3-15	10-25	50-75	40-70	35-65	30-60	20-30	3-10
	8-15	Gravelly loam, gravelly sandy loam, gravelly silt loam	CL, SC, GC	A-4, A-2, A-6	0-2	0-7	60-80	40-70	35-65	30-60	25-40	9-20
	15-60	Gravelly loam, gravelly sandy loam, gravelly clay loam	CL, GC, SC	A-2, A-4, A-6	0-2	0-10	60-80	40-70	25-60	20-55	25-40	9-20
	60-73	Gravelly loam, gravelly sandy loam	CL, GC, SC	A-2, A-4, A-6	0-2	3-10	60-80	40-70	25-60	20-55	25-35	9-15
	73-93	Very channery loam, very channery sandy loam, very channery loamy sand	GC, GC-GM, SC	A-1, A-2-4	0-2	3-10	30-60	20-25	15-25	5-20	25-35	5-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
BaD: Bagtown-----	0-8	Extremely stony loam	CL, GM, ML, SM	A-2, A-4	3-15	10-25	50-75	40-70	35-65	30-60	20-30	3-10
	8-15	Gravelly loam, gravelly sandy loam, gravelly silt loam	CL, SC, GC	A-4, A-2, A-6	0-2	0-7	60-80	40-70	35-65	30-60	25-40	9-20
	15-60	Gravelly loam, gravelly sandy loam, gravelly clay loam	CL, GC, SC	A-2, A-4, A-6	0-2	0-10	60-80	40-70	25-60	20-55	25-40	9-20
	60-73	Gravelly loam, gravelly sandy loam	CL, GC, SC	A-2, A-4, A-6	0-2	3-10	60-80	40-70	25-60	20-55	25-35	9-15
	73-93	Very channery loam, very channery sandy loam, very channery loamy sand	GC, GC-GM, SC	A-1, A-2-4	0-2	3-10	30-60	20-25	15-25	5-20	25-35	5-15
BbD: Bagtown-----	0-8	Extremely stony loam	CL, GM, ML, SM	A-2, A-4	5-10	15-25	50-75	40-70	35-65	30-60	20-30	3-10
	8-15	Gravelly loam, gravelly sandy loam, gravelly silt loam	CL, SC, GC	A-4, A-2, A-6	0-2	0-7	60-80	40-70	35-65	30-60	25-40	9-20
	15-60	Gravelly loam, gravelly sandy loam, gravelly clay loam	CL, GC, SC	A-2, A-4, A-6	0-2	0-10	60-80	40-70	25-60	20-55	25-40	9-20
	60-73	Gravelly loam, gravelly sandy loam	CL, GC, SC	A-2, A-4, A-6	0-2	3-10	60-80	40-70	25-60	20-55	25-35	9-15
	73-93	Very channery loam, very channery sandy loam, very channery loamy sand	GC, GC-GM, SC	A-1, A-2-4	0-2	3-10	30-60	20-25	15-25	5-20	25-35	5-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
BbE: Bagtown-----	0-8	Extremely stony loam	CL, GM, ML, SM	A-2, A-4	5-15	15-25	50-75	40-70	35-65	30-60	20-30	3-10
	8-15	Gravelly loam, gravelly sandy loam, gravelly silt loam	CL, SC, GC	A-4, A-2, A-6	0-2	0-7	60-80	40-70	35-65	30-60	25-40	9-20
	15-60	Gravelly loam, gravelly sandy loam, gravelly clay loam	CL, GC, SC	A-2, A-4, A-6	0-2	0-10	60-80	40-70	25-60	20-55	25-40	9-20
	60-73	Gravelly loam, gravelly sandy loam	CL, GC, SC	A-2, A-4, A-6	0-2	3-10	60-80	40-70	25-60	20-55	25-35	9-15
	73-93	Very channery loam, very channery sandy loam, very channery loamy sand	GC, GC-GM, SC	A-1, A-2-4	0-2	3-10	30-60	20-25	15-25	5-20	25-35	5-15
BcB: Baile-----	0-14	Silt loam	MH, ML	A-4, A-6, A-7	---	0-10	85-100	80-100	70-100	50-95	33-67	7-24
	14-26	Silty clay loam, silt loam, clay loam	CL	A-6	0	0	90-100	80-100	70-100	55-95	28-34	11-14
	26-51	Loam, sandy loam, silt loam	CL, ML, SC, SM	A-2, A-4, A-6	0	0	80-100	80-100	50-100	25-90	15-35	NP-11
	51-60	Gravelly sandy clay loam	SM, SC, ML	A-6, A-7-6, A-4	---	0-10	65-90	60-80	55-75	40-60	30-45	8-15
Glenville-----	0-8	Silt loam	ML, SM	A-4	0	0	85-100	85-100	70-95	45-80	25-35	3-10
	8-30	Silt loam, channery loam, channery silty clay loam	SC, CL-ML, GM, CL	A-4, A-6	0	0-10	70-100	60-100	60-95	45-80	25-40	5-13
	30-40	Silt loam, channery loam, silty clay loam	SC, GM, CL- ML, CL	A-4, A-6	0	0-10	65-100	60-100	55-95	45-80	25-40	5-13
	40-70	Channery fine sandy loam, channery loam, very channery sandy loam	GM, CL-ML, ML, SM	A-1, A-2, A-4	0	0-20	45-90	20-75	10-75	5-65	25-35	5-10

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
BdB: Benevola-----	0-8	Silt loam, loam, silty clay loam	CL	A-6	---	0	85-100	85-100	80-95	75-90	29-36	10-14
	8-33	Clay, clay loam, silty clay loam, silty clay	MH, CH, CL	A-7	---	0	95-100	85-100	70-95	55-95	38-59	15-27
	33-57	Clay	MH	A-7	---	0	80-100	70-95	60-95	50-95	56-61	20-28
	57-115	Clay loam, silt loam, loam, silty clay loam	CL	A-6, A-5	---	0	95-100	90-100	85-95	75-95	29-45	10-19
BdC: Benevola-----	0-8	Silt loam, loam, silty clay loam	CL	A-6	---	0	85-100	85-100	80-95	75-90	29-36	10-14
	8-33	Clay, clay loam, silty clay loam, silty clay	MH, CL, CH	A-7	---	0	95-100	85-100	70-82	55-82	38-59	15-27
	33-57	Clay	MH	A-7	---	0	80-100	70-95	60-95	50-95	56-61	20-28
	57-115	Silty clay loam, loam, silt loam, clay loam	CL	A-6, A-5	---	0	95-100	90-100	85-95	75-95	29-45	10-19
BfA: Bermudian-----	0-10	Silt loam	ML	A-4	0	0	90-100	90-100	70-90	60-80	0-14	---
	10-20	Silt loam, gravelly silty clay loam, channery sandy clay loam	ML, SC, SM	A-6, A-7-6, A-4	---	0-10	65-90	60-80	55-75	40-60	30-45	8-15
	20-72	Stratified sand to gravelly sandy clay loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	---	0-15	40-95	25-90	20-80	20-65	15-20	NP-5

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Blocktown-----	0-6	Channery loam	GC-GM, CL, CL-ML, GC	A-2, A-4, A-6	---	0-10	65-85	55-75	45-70	30-65	15-30	5-15
	6-17	Very channery loam, very channery silty clay loam, extremely channery silt loam	GM, GC	A-2, A-6, A-7	---	5-10	30-60	25-55	20-50	15-45	30-50	10-20
	17-21	Weathered bedrock			---	---	---	---	---	---	---	---
	21-25	Unweathered bedrock			---	---	---	---	---	---	---	---
BmA: Bowmansville----	0-8	Fine sandy loam, silt loam	SM, ML	A-4	0	0-5	95-100	80-100	60-100	35-90	0-14	NP
	8-54	Silt loam, silty clay loam, sandy clay loam	ML, SC, SM, CL	A-4, A-6, A-7	0	0-5	95-100	80-100	80-100	40-90	30-45	8-15
	54-62	Silty clay loam, sandy loam, gravelly silt loam	CL, SM, ML, MH	A-6, A-7	0	0-10	90-100	65-100	60-100	35-100	35-55	15-25
Rowland-----	0-11	Silt loam	SM, ML	A-4	0	0-5	95-100	95-100	75-100	35-95	0-14	---
	11-34	Silt loam, loam, sandy clay loam	ML, SM	A-4, A-6, A-7	0	0-5	95-100	95-100	75-100	35-95	24-45	NP-15
	34-54	Silt loam, gravelly silty clay loam	ML, SM	A-4, A-6, A-7	0	0-10	90-100	70-100	65-100	35-95	25-50	3-17
	54-66	Stratified gravel to sand	SM, GM	A-1, A-2	0-1	0-15	55-80	30-70	20-40	15-30	0-14	---
BmB: Bowmansville----	0-8	Fine sandy loam	ML, SM	A-4	0	0-5	95-100	80-100	60-100	35-90	0-14	NP
	8-54	Silt loam, silty clay loam, sandy clay loam	ML, SM, CL, SC	A-4, A-6, A-7	0	0-5	95-100	80-100	80-100	40-90	30-45	8-15
	54-57	Silty clay loam, sandy loam, gravelly silt loam	CL, MH, ML, SM	A-6, A-7	0	0-10	90-100	65-100	60-100	35-100	35-55	15-25

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Rowland-----	0-11	Silt loam	SM, ML	A-4	0	0-5	95-100	95-100	75-100	35-95	0-14	---
	11-34	Silt loam, loam, sandy clay loam	SM, ML	A-4, A-6, A-7	0	0-5	95-100	95-100	75-100	35-95	24-45	NP-15
	34-54	Sandy clay, silt loam, gravelly silty clay loam	SM, ML	A-4, A-6, A-7	0	0-10	90-100	70-100	65-100	35-95	25-50	3-17
	54-66	Stratified gravel to sand	GM, SM	A-1, A-2	0-1	0-15	55-80	30-70	20-40	15-30	0-14	---
BnB: Braddock-----	0-13	Gravelly loam	CL, ML, SM, SC	A-2, A-4	---	0-3	90-100	50-75	40-70	25-60	0-30	NP-10
	13-54	Gravelly sandy clay, gravelly clay loam, very gravelly clay	CH, CL, SC	A-2, A-7	---	0-15	85-95	50-75	45-70	30-65	42-66	15-35
	54-72	Very gravelly loam, gravelly sandy clay loam, extremely gravelly clay	CL, SC	A-2, A-4, A- 6, A-7	---	0-75	75-95	35-75	30-70	20-65	25-50	8-28
BnC: Braddock-----	0-13	Gravelly loam	CL, ML, SC, SM	A-2, A-4	---	0-3	90-100	50-75	40-70	25-60	0-30	NP-10
	13-54	Gravelly sandy clay, gravelly clay loam, very gravelly clay	CL, SC, CH	A-2, A-7	---	0-15	85-95	50-75	45-70	30-65	42-66	15-35
	54-72	Very gravelly loam, gravelly sandy clay loam, extremely gravelly clay	CL, SC	A-2, A-4, A- 6, A-7	---	0-75	75-95	35-75	30-70	20-65	25-50	8-28

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
BsB: Buckeystown-----	0-10	Loam, sandy loam, sandy clay loam	SC-SM, SC	A-2	---	0-1	85-100	80-100	55-85	20-45	28-36	11-19
	10-60	Loam, sandy loam, sandy clay loam	SC, SC-SM	A-2	---	0-1	85-100	85-100	50-75	20-45	28-36	11-19
	60-84	Sandy loam, sandy clay loam, clay loam	SC, SC-SM	A-6	---	0-1	85-100	85-100	75-90	35-60	36-46	17-25
BtB: Buckeystown-----	0-10	Loam, sandy loam, sandy clay loam	SC-SM, SC	A-2	---	0-1	85-100	80-100	55-85	20-45	28-36	11-19
	10-60	Loam, sandy loam, sandy clay loam	SC, SC-SM	A-2	---	0-1	85-100	85-100	50-75	20-45	28-36	11-19
	60-84	Sandy loam, sandy clay loam, clay loam	SC-SM, SC	A-6	---	0-1	85-100	85-100	75-90	35-60	36-46	17-25
BtC: Buckeystown-----	0-10	Loam, sandy loam, sandy clay loam	SC-SM, SC	A-2	---	0-1	85-100	80-100	55-85	20-45	28-36	11-19
	10-60	Loam, sandy loam, sandy clay loam	SC, SC-SM	A-2	---	0-1	85-100	85-100	50-75	20-45	28-36	11-19
	60-84	Sandy loam, sandy clay loam, clay loam	SC-SM, SC	A-6	---	0-1	85-100	85-100	75-90	35-60	36-46	17-25
BuB: Buckeystown-----	0-10	Loam, sandy loam, sandy clay loam	SC, SC-SM	A-2	---	0-1	85-100	80-100	55-85	20-45	28-36	11-19
	10-60	Loam, sandy loam, sandy clay loam	SC-SM, SC	A-2	---	0-1	85-100	85-100	50-75	20-45	28-36	11-19
	60-84	Sandy loam, sandy clay loam, clay loam	SC, SC-SM	A-6	---	0-1	85-100	85-100	75-90	35-60	36-46	17-25

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
CgA: Codorus-----	0-7	Silt loam	ML, CL, CL-ML	A-4, A-6	0	0	80-100	70-100	65-100	55-95	22-35	2-12
	7-34	Silt loam, loam, silty clay loam	ML, CL-ML, CL	A-4, A-6	0	0	80-100	75-100	65-100	55-85	22-35	2-12
	34-72	Stratified sand to silt	GM, ML, SM	A-1, A-2, A-4	0	0	25-100	20-100	20-85	15-65	0-35	NP-7
Hatboro-----	0-8	Silt loam	ML, CL	A-4, A-6	0	0	95-100	90-100	70-100	60-90	22-35	2-12
	8-39	Silt loam, silty clay loam, sandy clay loam	ML, CL, CL-ML	A-4, A-6	0	0	85-100	80-100	70-95	55-85	22-35	2-12
	39-50	Sandy clay loam, sandy loam, silt loam	CL, ML, SC, SM	A-4	0	0	75-100	70-100	60-90	45-60	22-30	2-10
	50-72	Stratified gravelly sand to clay	SC, SM, GC, GM	A-1, A-2	0	0	50-85	45-80	45-80	15-35	0-32	NP-14
CmA: Combs-----	0-13	Fine sandy loam	SM, SC-SM, ML, CL-ML	A-2, A-4	0	0	90-100	75-100	60-85	25-55	0-25	NP-5
	13-44	Loam, fine sandy loam, silt loam	SC-SM, SM, CL-ML, ML	A-2, A-4	0	0	90-100	75-100	65-100	30-80	0-25	NP-5
	44-80	Loam, fine sandy loam, sandy clay loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0	0	90-100	75-100	65-100	30-80	0-25	NP-8
CnA: Combs-----	0-23	Silt loam	CL-ML, ML, SC-SM, SM	A-4	0	0	90-100	75-100	65-100	45-80	0-25	NP-5
	23-44	Loam, fine sandy loam, silt loam	SC-SM, SM, ML, CL-ML	A-2, A-4	0	0	90-100	75-100	65-100	30-80	0-25	NP-5
	44-80	Loam, fine sandy loam, sandy clay loam	CL-ML, SC-SM, SM, ML	A-2, A-4	0	0	90-100	75-100	65-100	30-80	0-25	NP-8

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
CoB: Conestoga-----	0-10	Silt loam	ML	A-4	---	0-5	90-100	85-100	80-100	70-90	20-30	NP-6
	10-38	Silt loam, silty clay loam, channery silt loam	CL, CH	A-6, A-7	---	0-10	70-100	65-100	60-100	55-95	35-60	14-30
	38-75	Channery silt loam, channery loam, channery sandy loam	GM, MH, ML, SM	A-2, A-6, A-7	---	0-15	35-90	35-85	30-80	25-75	35-60	10-25
Letort-----	0-9	Silt loam	ML	A-4	0	0	90-100	90-100	75-90	55-75	20-30	NP-6
	9-32	Loam, silt loam, silty clay loam	ML	A-4, A-6, A-7	0	0	80-100	80-100	65-95	50-70	30-45	3-12
	32-62	Silt loam, channery sandy loam, channery loam	ML, SM	A-2, A-4	0	0-5	80-100	50-100	45-95	30-55	20-35	NP-8
CoC: Conestoga-----	0-10	Silt loam	ML	A-4	---	0-5	90-100	85-100	80-100	70-90	20-30	NP-6
	10-38	Silt loam, silty clay loam, channery silt loam	CH, CL	A-6, A-7	---	0-10	70-100	65-100	60-100	55-95	35-60	14-30
	38-75	Channery silt loam, channery loam, channery sandy loam	GM, MH, ML, SM	A-2, A-6, A-7	---	0-15	35-90	35-85	30-80	25-75	35-60	10-25
Letort-----	0-9	Silt loam	ML	A-4	0	0	90-100	90-100	75-90	55-75	20-30	NP-6
	9-32	Loam, silt loam, silty clay loam	ML	A-4, A-6, A-7	0	0	80-100	80-100	65-95	50-70	30-45	3-12
	32-62	Silt loam, channery sandy loam, channery loam	SM, ML	A-2, A-4	0	0-5	80-100	50-100	45-95	30-55	20-35	NP-8

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
DoB: Downsville-----	0-10	Gravelly loam	ML, CL, SM	A-2, A-4, A-6	0	0-10	60-85	55-80	45-70	30-65	15-30	3-11
	10-18	Gravelly loam, gravelly sandy loam, gravelly silt loam	SM, ML, GM, CL	A-2, A-4, A-6	0	5-15	60-85	55-80	45-70	30-65	15-30	3-15
	18-30	Very gravelly clay loam, very gravelly sandy clay loam, very gravelly loam	CL, GM, GC, SC	A-2, A-4, A-6	0	5-20	50-80	45-80	40-75	30-70	25-45	3-20
	30-87	Very gravelly clay loam, very gravelly sandy clay loam, very gravelly sandy loam	SC, GM, GC, CL	A-2, A-4, A-6	0	0-15	50-80	45-80	40-75	30-70	15-35	3-15
	87-99	Gravelly loam, gravelly silt loam, loam	SM, CL, ML, SC	A-2, A-4, A-6	0	0-1	60-85	55-80	45-70	30-65	15-35	3-15
DoC: Downsville-----	0-10	Gravelly loam	SM, ML, CL	A-2, A-4, A-6	0	0-10	60-85	55-80	45-70	30-65	15-30	3-11
	10-18	Gravelly loam, gravelly sandy loam, gravelly silt loam	CL, GM, ML, SM	A-2, A-4, A-6	0	5-15	60-85	55-80	45-70	30-65	15-30	3-15
	18-30	Very gravelly clay loam, very gravelly sandy clay loam, very gravelly loam	CL, GC, GM, SC	A-2, A-4, A-6	0	5-20	50-80	45-80	40-75	30-70	25-45	3-20
	30-87	Very gravelly clay loam, very gravelly sandy clay loam, very gravelly sandy loam	SC, GM, GC, CL	A-2, A-4, A-6	0	0-15	50-80	45-80	40-75	30-70	15-35	3-15
	87-99	Gravelly loam, gravelly silt loam, loam	SM, SC, ML, CL	A-2, A-4, A-6	0	0-1	60-85	55-80	45-70	30-65	15-35	3-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
DuB: Duffield-----	0-9	Channery silt loam	ML, CL-ML, CL	A-4, A-6, A-7	0	0	85-100	85-100	80-100	70-95	20-50	5-20
	9-54	Silty clay loam, silty clay, channery loam	ML, MH, CL, CH	A-4, A-6, A-7	0	0-10	65-100	60-100	55-100	55-95	30-55	8-22
	54-65	Channery silt loam, loam, clay	SM, ML, MH, GM	A-5, A-7	0	0-20	65-100	50-100	45-90	40-90	40-60	9-29
Ryder-----	0-8	Channery silt loam	ML	A-4	0	0	80-95	60-75	55-70	50-65	15-35	1-7
	8-30	Silt loam, loam, channery silty clay loam	ML	A-4, A-5, A-7	0	0-5	70-100	60-95	55-90	50-85	30-45	3-11
	30-35	Channery loam, channery silt loam, very channery silt loam	GM	A-2, A-4, A- 6, A-1	0	0-30	30-65	25-60	20-55	15-50	25-40	2-11
	35-45	Unweathered bedrock			---	---	---	---	---	---	---	---
DvB: Duffield-----	0-10	Channery silt loam	ML, CL-ML, CL	A-4, A-6, A-7	---	0	85-100	85-100	80-100	70-95	20-50	5-20
	10-33	Silty clay loam, silty clay, channery loam	MH, ML, CL, CH	A-4, A-6, A-7	---	0-10	65-100	60-100	55-100	55-95	30-55	8-22
	33-38	Channery silt loam, loam, clay	MH, ML, SM, GM	A-5, A-7	---	0-20	65-100	50-95	45-90	40-90	40-60	9-29

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Ryder-----	0-8	Channery silt loam	ML	A-4, A-6	0	0	90-100	75-100	70-100	70-95	---	---
	8-30	Silt loam, loam, channery silty clay loam	ML	A-4, A-5, A-7	---	0-5	70-100	60-95	55-90	50-85	30-45	3-11
	30-38	Channery loam, channery silt loam, very channery silt loam	GM	A-1, A-2, A- 4, A-6	---	0-30	30-65	25-60	20-55	15-50	25-40	2-11
	38-48	Unweathered bedrock			---	---	---	---	---	---	---	---
DwB: Duffield-----	0-9	Channery silt loam	CL, CL-ML, ML	A-4, A-6, A-7	0	0	85-100	85-100	80-100	70-95	20-50	5-20
	9-54	Silty clay loam, silty clay, channery loam	ML, CL, MH, CH	A-4, A-6, A-7	0	0-10	65-100	60-100	55-100	55-95	30-55	8-22
	54-65	Channery silt loam, loam, clay	SM, ML, MH, GM	A-5, A-7	0	0-20	65-100	50-100	45-90	40-90	40-60	9-29
Hagerstown-----	0-10	Silt loam	CL, CL-ML	A-4, A-6, A-7	0	0-15	85-100	80-100	80-100	70-95	25-50	5-25
	10-17	Clay, clay loam, loam	CH, CL	A-7	0	0-5	90-100	80-100	75-100	55-95	48-65	26-34
	17-71	Clay, silty clay, silty clay loam	CH, CL	A-6, A-7	0-1	0-5	85-100	80-100	75-100	75-95	30-70	15-40
Urban Land-----	0-6	Variable			---	---	---	---	---	---	0-14	---
EdB: Edgemont-----	0-2	Gravelly loam	SM, ML, GM	A-2, A-4	0	0-10	55-90	50-70	35-60	15-55	0-14	---
	2-38	Fine sandy loam, channery sandy clay loam, gravelly clay loam	SP-SM, SM, GM, GP-GM	A-1, A-2, A-4	0	0-15	55-95	50-90	30-65	10-40	15-31	NP-8
	38-72	Sandy loam, channery loamy sand, very gravelly clay loam	GM, SP-SM, SM, GP-GM	A-1, A-2, A- 3, A-4	0	5-25	35-75	10-70	10-65	5-45	15-31	NP-6

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
EgB: Edgemont-----	0-10	Very stony loam	GM, ML, SM	A-2, A-4	1-5	3-15	55-100	50-95	35-90	15-80	0-14	---
	10-38	Fine sandy loam, channery sandy clay loam, gravelly clay loam	GM, SP-SM, SM, GP-GM	A-1, A-2, A-4	0-3	0-15	55-95	50-90	30-65	10-40	15-31	NP-8
	38-60	Sandy loam, channery loamy sand, very gravelly clay loam	SP-SM, SM, GM, GP-GM	A-1, A-2, A- 3, A-4	1-3	5-25	35-75	10-70	10-65	5-45	15-31	NP-6
EgC: Edgemont-----	0-10	Very stony loam	ML, SM, GM	A-2, A-4	1-5	3-15	55-100	50-95	35-90	15-80	0-14	---
	10-38	Fine sandy loam, channery sandy clay loam, gravelly clay loam	GM, GP-GM, SM, SP-SM	A-1, A-2, A-4	0-3	0-15	55-95	50-90	30-65	10-40	15-31	NP-8
	38-60	Sandy loam, channery loamy sand, very gravelly clay loam	SM, SP-SM, GP-GM, GM	A-1, A-2, A- 3, A-4	1-3	5-25	35-75	10-70	10-65	5-45	15-31	NP-6
EgD: Edgemont-----	0-2	Very stony loam	GM, ML, SM	A-2, A-4	1-5	3-15	55-100	50-95	35-90	15-80	0-14	---
	2-38	Fine sandy loam, channery sandy clay loam, gravelly clay loam	GM, GP-GM, SM, SP-SM	A-1, A-2, A-4	0-3	0-15	55-95	50-90	30-65	10-40	15-31	NP-8
	38-72	Sandy loam, channery loamy sand, very gravelly clay loam	SP-SM, SM, GP-GM, GM	A-1, A-2, A- 3, A-4	1-3	5-25	35-75	10-70	10-65	5-45	15-31	NP-6

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
ErE: Edgemont-----	0-2	Gravelly loam	SM, GM, ML	A-2, A-4	0	0-10	55-90	50-70	35-60	15-55	0-14	---
	2-38	Fine sandy loam, channery sandy clay loam, gravelly clay loam	SP-SM, GP-GM, GM, SM	A-1, A-2, A-4	0	0-15	55-95	50-90	30-65	10-40	15-31	NP-8
	38-72	Sandy loam, channery loamy sand, very gravelly clay loam	GM, GP-GM, SM, SP-SM	A-1, A-2, A- 3, A-4	0	5-25	35-75	10-70	10-65	5-45	15-31	NP-6
Rock Outcrop----	0-60	Unweathered bedrock			---	---	---	---	---	---	---	---
FoB: Foxville-----	0-4	Cobbly silt loam	CL-ML, CL	A-4	50-80	15-30	80-95	70-95	60-80	55-75	21-30	4-11
	4-43	Extremely stony silt loam, extremely stony loam, very cobbly silt loam	CL, CL-ML	A-4	0-20	20-50	80-95	75-95	65-85	60-75	21-30	4-11
	43-58	Silt loam, loam, gravelly silt loam	CL, CL-ML	A-4, A-6	0-10	0-10	85-100	65-80	60-75	55-70	24-34	7-15
FxA: Foxville-----	0-4	Cobbly silt loam	CL-ML, CL	A-4	50-80	15-30	80-95	70-95	60-80	55-75	21-30	4-11
	4-43	Extremely stony silt loam, extremely stony loam, very cobbly silt loam	CL-ML, CL	A-4	0-20	20-50	80-95	75-95	65-85	60-75	21-30	4-11
	43-58	Silt loam, loam, gravelly silt loam	CL-ML, CL	A-4, A-6	0-10	0-10	85-100	65-80	60-75	55-70	24-34	7-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Hatboro-----	0-8	Silt loam	ML, CL	A-4, A-6	0	0	95-100	90-100	70-100	60-90	22-35	2-12
	8-38	Silt loam, silty clay loam, sandy clay loam	ML, CL, CL-ML	A-4, A-6	0	0	85-100	80-100	70-95	55-85	22-35	2-12
	38-72	Stratified gravelly sand to clay	GC, SM, SC, GM	A-1, A-2	0	0	50-85	45-80	45-80	15-35	0-32	NP-14
GaB: Gaila-----	0-8	Silt loam	CL, CL-ML	A-4, A-6	---	0-5	80-100	75-95	65-90	50-70	15-30	6-12
	8-17	Sandy clay loam, loam, sandy loam	CL, SC	A-2, A-4, A-6	---	0-5	80-100	75-95	50-90	25-70	20-35	8-15
	17-20	Sandy loam, loam	SC, SC-SM, CL-ML, CL	A-2, A-4, A-6	---	0-10	80-95	70-95	45-90	25-70	15-30	6-12
	20-76	Loamy sand, sandy loam, loam	SC-SM, SC, CL-ML	A-1, A-2, A-4	---	0-10	80-95	70-95	40-90	15-65	15-30	NP-10
GaC: Gaila-----	0-8	Silt loam	CL, CL-ML	A-4, A-6	---	0-5	80-100	75-95	65-90	50-70	15-30	6-12
	8-17	Sandy clay loam, loam, sandy loam	CL, SC	A-2, A-4, A-6	---	0-5	80-100	75-95	50-90	25-70	20-35	8-15
	17-20	Sandy loam, loam	SC-SM, SC, CL, CL-ML	A-2, A-4, A-6	---	0-10	80-95	70-95	45-90	25-70	15-30	6-12
	20-76	Loamy sand, sandy loam, loam	CL-ML, SC, SC-SM	A-1, A-2, A-4	---	0-10	80-95	70-95	40-90	15-65	15-30	NP-10
GeB: Glenelg-----	0-6	Loam	ML	A-4, A-6	0	0	85-100	80-100	70-100	50-75	32-40	7-12
	6-24	Channery silt loam, silty clay loam, loam	SM, ML, GM	A-4, A-6, A-7	---	0-10	60-100	50-100	45-100	35-95	34-46	9-15
	24-60	Loam, sandy loam, channery loam	SM, GM, ML	A-2, A-4	---	0-50	60-100	50-100	40-95	25-75	0-40	NP-6

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
GfB: Glenelg-----	0-8	Silt loam	ML	A-4, A-6	0	0	85-100	80-100	70-100	50-75	32-40	7-12
	8-28	Channery silt loam, silty clay loam, loam	SM, GM, ML	A-4, A-6, A-7	---	0-10	60-100	50-100	45-100	35-95	34-46	9-15
	28-60	Loam, sandy loam, channery loam	GM, SM, ML	A-2, A-4	---	0-50	60-100	50-100	40-95	25-75	15-40	NP-6
GgB: Glenelg-----	0-6	Gravelly loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-5	60-100	50-75	40-75	30-70	32-40	7-12
	6-24	Channery silt loam, silty clay loam, loam	GM, ML, SM	A-4, A-6, A-7	---	0-10	60-100	50-100	45-100	35-95	34-46	9-15
	24-65	Loam, sandy loam, channery loam	GM, ML, SM	A-2, A-4	---	0-50	60-100	50-100	40-95	25-75	15-40	NP-6
GgC: Glenelg-----	0-6	Gravelly loam	ML, SM, GM	A-2-4, A-2-6, A-4, A-6	---	0-5	60-100	50-75	40-75	30-70	32-40	7-12
	6-24	Channery silt loam, silty clay loam, loam	GM, ML, SM	A-4, A-6, A-7	---	0-10	60-100	50-100	45-100	35-95	34-46	9-15
	24-65	Loam, sandy loam, channery loam	GM, ML, SM	A-2, A-4	---	0-50	60-100	50-100	40-95	25-75	15-40	NP-6
GhB: Glenelg-----	0-6	Gravelly loam	GM, ML, SM	A-4, A-6, A- 2-4, A-2-6	---	0-5	60-100	50-75	40-75	30-70	32-40	7-12
	6-24	Channery silt loam, silty clay loam, loam	GM, SM, ML	A-4, A-6, A-7	---	0-10	60-100	50-100	45-100	35-95	34-46	9-15
	24-65	Loam, sandy loam, channery loam	ML, GM, SM	A-2, A-4	---	0-50	60-100	50-100	40-95	25-75	15-40	NP-6

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
GmB: Glenelg-----	0-6	Channery loam	ML, SM, GM	A-2-4, A-2-6, A-4, A-6	---	0-5	60-100	50-75	40-75	30-70	32-40	7-12
	6-24	Channery silt loam, silty clay loam, loam	GM, ML, SM	A-4, A-6, A-7	---	0-10	60-100	50-100	45-100	35-95	34-46	9-15
	24-65	Loam, sandy loam, channery loam	GM, SM, ML	A-2, A-4	---	0-50	60-100	50-100	40-95	25-75	15-40	NP-6
Mt.airy-----	0-7	Channery loam	GM, ML	A-2, A-4, A-6	---	0-10	40-60	40-60	25-60	20-55	32-40	6-12
	7-22	Channery silt loam, very channery loam, extremely channery clay loam	GM	A-1, A-2	---	0-15	35-50	30-50	25-40	10-25	26-40	4-12
	>22	Bedrock			---	---	---	---	---	---	---	---
GnB: Glenelg-----	0-6	Loam	GM, SM, ML	A-2-4, A-2-6, A-4, A-6	---	0-5	60-100	50-75	40-75	30-70	32-40	7-12
	6-24	Channery silt loam, silty clay loam, loam	SM, ML, GM	A-4, A-6, A-7	---	0-10	60-100	50-100	45-100	35-95	34-46	9-15
	24-65	Loam, sandy loam, channery loam	SM, GM, ML	A-2, A-4	---	0-50	60-100	50-100	40-95	25-75	15-40	NP-6
Mt.airy-----	0-7	Channery loam	GM, ML	A-2, A-4, A-6	---	0-10	40-60	40-60	25-60	20-55	32-40	6-12
	7-22	Channery silt loam, very channery loam, extremely channery clay loam	GM	A-1, A-2	---	0-15	35-50	30-50	25-40	10-25	26-40	4-12
	>22	Bedrock			---	---	---	---	---	---	---	---
Urban Land-----	0-6	Variable			---	---	---	---	---	---	0-14	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
GoB: Glenville-----	0-8	Silt loam	ML, SM	A-4	0	0	85-100	85-100	70-95	45-80	25-35	3-10
	8-30	Silt loam, channery loam, channery silty clay loam	CL, CL-ML, GM, SC	A-4, A-6	0	0-10	70-100	60-100	60-95	45-80	25-40	5-13
	30-40	Silt loam, channery loam, silty clay loam	CL, CL-ML, GM, SC	A-4, A-6	0	0-10	65-100	60-100	55-95	45-80	25-40	5-13
	40-70	Channery fine sandy loam, channery loam, very channery sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	0	0-20	45-90	20-75	10-75	5-65	25-35	5-10
GoC: Glenville-----	0-8	Silt loam	ML, SM	A-4	0	0	85-100	85-100	70-95	45-80	25-35	3-10
	8-30	Silt loam, channery loam, channery silty clay loam	CL, CL-ML, GM, SC	A-4, A-6	0	0-10	70-100	60-100	60-95	45-80	25-40	5-13
	30-40	Silt loam, channery loam, silty clay loam	CL, CL-ML, GM, SC	A-4, A-6	0	0-10	65-100	60-100	55-95	45-80	25-40	5-13
	40-70	Channery fine sandy loam, channery loam, very channery sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	0	0-20	45-90	20-75	10-75	5-65	25-35	5-10
GuB: Glenville-----	0-8	Silt loam	ML, SM	A-4	0	0	85-100	85-100	70-95	45-80	25-35	3-10
	8-30	Silt loam, channery loam, channery silty clay loam	CL, CL-ML, GM, SC	A-4, A-6	0	0-10	70-100	60-100	60-95	45-80	25-40	5-13
	30-40	Silt loam, channery loam, silty clay loam	CL, CL-ML, GM, SC	A-4, A-6	0	0-10	65-100	60-100	55-95	45-80	25-40	5-13
	40-70	Channery fine sandy loam, channery loam, very channery sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	0	0-20	45-90	20-75	10-75	5-65	25-35	5-10

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Baile-----	0-8	Silt loam	MH, ML	A-4, A-6, A-7	---	0-10	85-100	80-100	70-100	50-95	33-67	7-24
	8-31	Silty clay loam, silt loam, clay loam	CL	A-6	0	0	90-100	80-100	70-100	55-95	28-34	11-14
	31-62	Loam, sandy loam, silt loam	CL, ML, SC, SM	A-2, A-4, A-6	0	0	80-100	80-100	50-100	25-90	15-35	NP-11
GvA: Glenville-----	0-8	Silt loam	SM, ML	A-4	0	0	85-100	85-100	70-95	45-80	25-35	3-10
	8-30	Silt loam, channery loam, channery silty clay loam	CL, CL-ML, GM, SC	A-4, A-6	0	0-10	70-100	60-100	60-95	45-80	25-40	5-13
	30-40	Silt loam, channery loam, silty clay loam	CL, CL-ML, GM, SC	A-4, A-6	0	0-10	65-100	60-100	55-95	45-80	25-40	5-13
	40-70	Channery fine sandy loam, channery loam, very channery sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	0	0-20	45-90	20-75	10-75	5-65	25-35	5-10
Codorus-----	0-11	Gravelly silt loam	CL, CL-ML, ML	A-4, A-6	0	0	80-100	70-100	65-100	55-95	22-35	2-12
	11-40	Silt loam, loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	0	0	80-100	75-100	65-100	55-85	22-35	2-12
	40-60	Stratified sand to silt	GM, ML, SM	A-1, A-2, A-4	0	0	25-100	20-100	20-85	15-65	15-35	NP-7

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
GvB: Glenville-----	0-8	Silt loam	ML, SM	A-4	0	0	85-100	85-100	70-95	45-80	25-35	3-10
	8-30	Silt loam, channery loam, channery silty clay loam	CL, CL-ML, GM, SC	A-4, A-6	0	0-10	70-100	60-100	60-95	45-80	25-40	5-13
	30-40	Silt loam, channery loam, silty clay loam	CL, CL-ML, GM, SC	A-4, A-6	0	0-10	65-100	60-100	55-95	45-80	25-40	5-13
	40-70	Channery fine sandy loam, channery loam, very channery sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	0	0-20	45-90	20-75	10-75	5-65	25-35	5-10
Codorus-----	0-11	Gravelly silt loam	CL, CL-ML, ML	A-4, A-6	0	0	80-100	70-100	65-100	55-95	22-35	2-12
	11-40	Silt loam, loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	0	0	80-100	75-100	65-100	55-85	22-35	2-12
	40-60	Stratified sand to silt	GM, ML, SM	A-1, A-2, A-4	0	0	25-100	20-100	20-85	15-65	15-35	NP-7
HaA: Hagerstown-----	0-10	Loam	CL, CL-ML	A-4, A-6, A-7	0	0-15	85-100	80-100	80-100	70-95	25-50	5-25
	10-17	Clay, clay loam, loam	CL, CH	A-7	0	0-5	90-100	80-100	75-100	55-95	48-65	26-34
	17-71	Clay, silty clay, silty clay loam	CL, CH	A-6, A-7	0-1	0-5	85-100	80-100	75-100	75-95	30-70	15-40
HaB: Hagerstown-----	0-10	Loam	CL-ML, CL	A-4, A-6, A-7	0	0-15	85-100	80-100	80-100	70-95	25-50	5-25
	10-17	Clay, clay loam, loam	CL, CH	A-7	0	0-5	90-100	80-100	75-100	55-95	48-65	26-34
	17-71	Clay, silty clay, silty clay loam	CH, CL	A-6, A-7	0-1	0-5	85-100	80-100	75-100	75-95	30-70	15-40
HaC: Hagerstown-----	0-7	Loam	CL, CL-ML	A-4, A-6, A-7	0	0-15	85-100	80-100	80-100	70-95	25-50	5-25
	7-19	Clay, clay loam, loam	CL, CH	A-7	0	0-5	90-100	80-100	75-100	55-95	48-65	26-34
	19-65	Clay, silty clay, silty clay loam	CL, CH	A-6, A-7	0-1	0-5	85-100	80-100	75-100	75-95	30-70	15-40

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
HbB: Hagerstown-----	0-10	Silt loam	CL, CL-ML	A-4, A-6, A-7	0	0-15	85-100	80-100	80-100	70-95	25-50	5-25
	10-17	Clay, clay loam, loam	CH, CL	A-7	0	0-5	90-100	80-100	75-100	55-95	48-65	26-34
	17-71	Clay, silty clay, silty clay loam	CH, CL	A-6, A-7	0-1	0-5	85-100	80-100	75-100	75-95	30-70	15-40
HcB: Hagerstown-----	0-7	Silty clay loam	CL, CL-ML	A-4, A-6, A-7	0	0-15	85-100	80-100	80-100	70-95	25-50	5-25
	7-19	Clay, clay loam, loam	CH, CL	A-7	0	0-5	90-100	80-100	75-100	55-95	48-65	26-34
	19-65	Clay, silty clay, silty clay loam	CH, CL	A-6, A-7	0-2	0-5	85-100	80-100	75-100	75-95	30-70	15-40
Opequon-----	0-2	Silty clay loam	CH, CL	A-6, A-7	0	0-5	85-100	80-100	80-100	75-95	30-55	10-30
	2-18	Silty clay loam, clay, silty clay	CH, CL	A-6, A-7	0-5	0-10	80-100	60-100	60-100	55-95	35-65	15-40
	18-28	Unweathered bedrock			---	---	---	---	---	---	---	---
HdA: Hatboro-----	0-8	Silt loam	CL, ML	A-4, A-6	0	0	95-100	90-100	70-100	60-90	22-35	2-12
	8-38	Silt loam, silty clay loam, sandy clay loam	ML, CL, CL-ML	A-4, A-6	0	0	85-100	80-100	70-95	55-85	22-35	2-12
	38-72	Stratified gravelly sand to clay	SC, SM, GM, GC	A-2, A-1	0	0	50-85	45-80	45-80	15-35	0-32	NP-14
Codorus-----	0-16	Silt loam	CL-ML, CL, ML	A-4, A-6	0	0	80-100	70-100	65-100	55-95	22-35	2-12
	16-34	Silt loam, loam, silty clay loam	ML, CL-ML, CL	A-4, A-6	0	0	80-100	75-100	65-100	55-85	22-35	2-12
	34-72	Stratified sand to silt	GM, ML, SM	A-1, A-2, A-4	0	0	25-100	20-100	20-85	15-65	0-35	NP-7

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Linganore-----	0-11	Channery silt loam	GC	A-2, A-6	---	2-10	60-80	50-75	40-75	30-70	25-35	10-15
	11-17	Very channery silt loam, very channery silty clay loam	GC	A-2	---	2-25	35-55	30-55	25-55	20-50	30-45	10-20
	17-22	Extremely channery silt loam, extremely channery silty clay loam	GC	A-2	---	2-25	20-35	10-30	10-30	5-30	25-40	10-20
	22-51	Weathered bedrock			---	---	---	---	---	---	---	---
	51-55	Unweathered bedrock			---	---	---	---	---	---	---	---
KeB: Klinesville-----	0-8	Very channery loam, very channery silt loam, channery silt loam	SP, SM, GP, GM	A-4, A-1, A-2	0	0-10	25-75	15-55	10-50	4-40	20-35	NP-9
	8-14	Channery silt loam, very channery silt loam	GM, SM	A-1, A-2	0	0-20	15-60	10-50	10-40	4-30	20-35	NP-7
	>14	Bedrock			---	---	---	---	---	---	0-14	---
KeC: Klinesville-----	0-8	Very channery loam, very channery silt loam, channery silt loam	GP, SM, SP, GM	A-1, A-2, A-4	0	0-10	25-75	15-55	10-50	4-40	20-35	NP-9
	8-14	Channery silt loam, very channery silt loam	GM, SM	A-1, A-2	0	0-20	15-60	10-50	10-40	4-30	20-35	NP-7
	>14	Bedrock			---	---	---	---	---	---	0-14	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
KeD: Klinesville-----	0-8	Very channery loam, very channery silt loam, channery silt loam	GM, GP, SM, SP	A-1, A-2, A-4	0	0-10	25-75	15-55	10-50	4-40	20-35	NP-9
	8-14	Channery silt loam, very channery silt loam	GM, SM	A-1, A-2	0	0-20	15-60	10-50	10-40	4-30	20-35	NP-7
	>14	Bedrock			---	---	---	---	---	---	0-14	---
KnB: Klinesville-----	0-8	Channery silt loam, very channery silt loam	GM, SM, GP, SP	A-1, A-2, A-4	0	0-10	25-75	15-55	10-50	4-40	20-35	NP-9
	8-14	Channery silt loam, very channery silt loam	SM, GM	A-1, A-2	0	0-20	15-60	10-50	10-40	4-30	20-35	NP-7
	---	Bedrock			---	---	---	---	---	---	0-14	---
KnC: Klinesville-----	0-8	Channery silt loam, very channery silt loam	GM, SM, SP, GP	A-1, A-2, A-4	0	0-10	25-75	15-55	10-50	4-40	20-35	NP-9
	8-14	Channery silt loam, very channery silt loam	SM	A-1, A-2	0	0-20	15-60	10-50	10-40	4-30	20-35	NP-7
	---	Bedrock			---	---	---	---	---	---	0-14	---
KrF: Klinesville-----	0-8	Very channery loam, very channery silt loam, channery silt loam	GM, GP, SM, SP	A-1, A-2, A-4	0	0-10	25-75	15-55	10-50	4-40	20-35	NP-9
	8-14	Channery silt loam, very channery silt loam	GM, SM	A-1, A-2	0	0-20	15-60	10-50	10-40	4-30	20-35	NP-7
	>14	Bedrock			---	---	---	---	---	---	0-14	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
LgB: Legore-----	0-10	Gravelly silt loam	CL	A-4, A-6	0	0-5	85-100	80-100	70-100	50-95	0-40	7-15
	10-30	Gravelly silty clay loam, clay loam, silty clay loam	MH, ML, SM	A-7	0	0-15	80-100	50-100	50-100	40-95	40-65	14-30
	30-60	Gravelly silt loam, silty clay loam, sandy loam	GM, ML, SM	A-2, A-4, A- 5, A-7	0	0-15	60-100	50-100	45-100	25-95	0-50	NP-15
LnB: Legore-----	0-10	Gravelly silt loam	CL	A-4, A-6	0	0-5	85-100	80-100	70-100	50-95	0-40	7-15
	10-30	Gravelly silty clay loam, clay loam, silty clay loam	MH, ML, SM	A-7	0	0-15	80-100	50-100	50-100	40-95	40-65	14-30
	30-60	Gravelly silt loam, silty clay loam, sandy loam	SM, ML, GM	A-2, A-4, A- 5, A-7	0	0-15	60-100	50-100	45-100	25-95	0-50	NP-15
Montalto-----	0-15	Gravelly silt loam	CL, CH, ML	A-6, A-7	0	0-5	95-100	80-100	70-100	50-95	36-52	10-25
	15-42	Clay, silty clay, clay loam	CH, CL	A-7	0	0-5	95-100	80-100	70-100	60-95	40-54	18-27
	42-72	Loam, clay loam, silty clay loam	CH, CL, ML	A-6, A-7	0	0-10	90-100	80-100	70-100	50-95	38-52	13-25
LnD: Legore-----	0-10	Gravelly silt loam	SC, GC, CL	A-2-4, A-2-6, A-4, A-6	0	0-15	65-90	50-75	40-75	30-70	0-40	7-15
	10-30	Gravelly silty clay loam, clay loam, silty clay loam	ML, SM, MH	A-7	0	0-15	80-100	50-100	50-100	40-95	40-65	14-30
	30-60	Gravelly silt loam, silty clay loam, sandy loam	GM, SM, ML	A-2, A-4, A- 5, A-7	0	0-15	60-100	50-100	45-100	25-95	0-50	NP-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Montalto-----	0-15	Gravelly silt loam	CH, CL, ML	A-6, A-7	0	0-5	95-100	80-100	70-100	50-95	36-52	10-25
	15-42	Clay, silty clay, clay loam	CL, CH	A-7	0	0-5	95-100	80-100	70-100	60-95	40-54	18-27
	42-72	Loam, clay loam, silty clay loam	CH, ML, CL	A-6, A-7	0	0-10	90-100	80-100	70-100	50-95	38-52	13-25
LqB: Lehigh-----	0-9	Channery loam	CL	A-4	0	0	80-100	70-85	70-85	60-80	25-30	5-10
	9-30	Very channery silt loam, channery silty clay loam	GC, ML, GM, CL	A-4, A-6	0	0-10	55-90	45-85	40-80	40-70	29-40	5-15
	30-42	Channery silty clay loam, very channery silt loam, extremely channery silt loam	CL, GC, GM, ML	A-1, A-2, A- 4, A-6	0-1	0-20	25-70	15-65	10-60	10-55	29-40	5-15
	42-52	Unweathered bedrock			---	---	---	---	---	---	---	---
LsA: Lindside-----	0-13	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	100	95-100	80-100	55-90	20-35	2-15
	13-46	Silty clay loam, silt loam, very fine sandy loam	CL-ML, CL	A-4, A-6	0	0	100	95-100	90-100	70-95	25-40	4-18
	46-65	Stratified gravelly sandy loam to silty clay loam	SC, CL	A-2, A-4, A-6	0	0	60-100	55-100	45-100	30-95	20-40	4-18

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
LyC: Linganore-----	0-13	Channery silt loam	GC	A-2, A-6	---	2-10	60-80	50-75	40-75	30-70	25-35	10-15
	13-25	Very channery silt loam, very channery silty clay loam	GC	A-2	---	2-25	35-55	30-55	25-55	20-50	30-45	10-20
	25-36	Extremely channery silt loam, extremely channery silty clay loam	GC	A-2	---	2-25	20-35	10-30	10-30	5-30	25-40	10-20
	>36	Bedrock			---	---	---	---	---	---	---	---
Hyattstown-----	0-9	Channery silt loam	GC-GM, GC, CL-ML, CL	A-6, A-2-4, A-4	---	0-5	55-80	50-75	40-75	30-70	20-30	5-15
	9-14	Very channery silt loam, very channery clay loam	GC, GM, SC, SM	A-2, A-6, A-7	---	0-5	40-85	30-55	25-55	20-50	30-50	10-20
	14-18	Extremely channery silt loam, very channery silt loam	GC, GC-GM, SC	A-1, A-2, A- 4, A-6	---	5-10	25-85	10-55	10-55	7-45	20-30	5-15
	18-26	Weathered bedrock			---	---	---	---	---	---	---	---
	26-30	Unweathered bedrock			---	---	---	---	---	---	---	---
MaA: Melvin-----	0-8	Silt loam	ML, CL-ML	A-4	0	0	95-100	90-100	80-100	80-95	25-35	4-10
	8-46	Silt loam, silty clay loam	CL-ML, CL	A-4, A-6	0	0	95-100	90-100	80-100	80-95	25-40	5-20
	46-60	Silt loam, silty clay loam, loam	CL-ML, CL	A-4, A-6	0	0	85-100	80-100	70-100	60-95	25-40	5-20

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Lindside-----	0-13	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	100	95-100	80-100	55-90	20-35	2-15
	13-46	Silty clay loam, silt loam, very fine sandy loam	CL-ML, CL	A-4, A-6	0	0	100	95-100	90-100	70-95	25-40	4-18
	46-65	Stratified gravelly sandy loam to silty clay loam	CL, SC	A-2, A-4, A-6	0	0	60-100	55-100	45-100	30-95	20-40	4-18
MbA: Morven-----	0-4	Loam	CL, CL-ML	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
	4-9	Silt loam	CL-ML, CL	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
	9-20	Silt loam, silty clay loam	CL-ML, CL	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
	20-35	Silt loam, silty clay loam	CL-ML, CL	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
	35-46	Silt loam, silty clay loam	CL-ML, CL	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
	46-62	Silty clay loam, silt loam, silty clay, clay	CL	A-4, A-6, A-7	---	0-2	90-100	75-100	70-100	65-95	25-45	9-20
MbB: Morven-----	0-4	Loam	CL, CL-ML	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
	4-9	Silt loam	CL, CL-ML	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
	9-20	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
	20-35	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
	35-46	Silt loam, silty clay loam	CL-ML, CL	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
	46-62	Silty clay loam, silt loam, silty clay, clay	CL	A-4, A-6, A-7	---	0-2	90-100	75-100	70-100	65-95	25-45	9-20

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Rohrersville----	0-9	Silt loam	ML, CL-ML, CL	A-4, A-6	0	0	95-100	90-100	85-90	70-90	20-35	3-15
	9-43	Silt loam, silty clay loam, loam	CL, CL-ML, ML	A-4, A-6	0	0	95-100	90-100	70-90	70-85	20-40	3-20
	43-62	Loam, silt loam	CL, CL-ML, ML	A-4, A-6	0	0	85-100	75-100	65-90	45-80	20-35	3-15
	62-70	Unweathered bedrock			---	---	---	---	---	---	---	---
MoB: Mt. Zion-----	0-6	Gravelly silt loam	ML, CL-ML, CL	A-4, A-6	0-2	0-15	85-90	80-90	75-85	50-75	20-35	3-15
	6-31	Silt loam, loam	CL, CL-ML, ML	A-4, A-6	0-1	5-20	85-95	80-90	75-85	50-75	20-40	3-20
	31-48	Gravelly silt loam, gravelly loam, silt loam	CL, CL-ML, ML	A-4, A-6	0	5-20	85-95	80-90	75-85	50-75	20-35	3-15
	48-69	Gravelly loam, very gravelly loam, very gravelly silt loam	CL, CL-ML, ML, GM	A-4, A-6	0	15-40	70-95	70-80	65-75	45-70	20-35	3-15
	69-72	Unweathered bedrock			---	---	---	---	---	---	---	---
Codorus-----	0-16	Gravelly sandy loam	ML, CL-ML, CL	A-4, A-6	0	0	80-100	70-100	65-100	55-95	22-35	2-12
	16-34	Silt loam, loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	0	0	80-100	75-100	65-100	55-85	22-35	2-12
	34-72	Stratified sand to silt	GM, ML, SM	A-1, A-2, A-4	0	0	25-100	20-100	20-85	15-65	0-35	NP-7
MrB: Murrill-----	0-9	Gravelly loam	SC-SM, ML, GM, CL	A-2, A-4, A-6	0	0-5	65-80	55-70	45-65	30-65	20-45	3-15
	9-55	Gravelly clay loam, gravelly silty clay loam, sandy clay loam	CL-ML, CL	A-4, A-6, A-7	0	0-10	65-85	60-70	55-65	50-65	20-50	5-25
	55-70	Silty clay, very gravelly clay loam, gravelly silty clay loam	MH, CL, CH	A-6, A-7	0-1	0-10	80-100	50-100	45-100	40-100	35-75	20-40

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
MtB: Murrill-----	0-9	Gravelly loam	SC-SM, CL, GM, ML	A-2, A-4, A-6	0	0-5	65-80	55-70	45-65	30-65	20-45	3-15
	9-55	Gravelly clay loam, gravelly silty clay loam, sandy clay loam	CL-ML, CL	A-4, A-6, A-7	0	0-10	65-85	60-70	55-65	50-65	20-50	5-25
	55-70	Silty clay, very gravelly clay loam, gravelly silty clay loam	MH, CL, CH	A-6, A-7	0-1	0-10	80-100	50-100	45-100	40-100	35-75	20-40
Dryrun-----	0-12	Gravelly loam	CL-ML, CL, ML, GM	A-2, A-4	0-1	0-10	50-80	40-70	40-70	30-65	20-35	3-11
	12-27	Gravelly silt loam, gravelly clay loam, gravelly loam	ML, CL, CL- ML, GM	A-2, A-4	0-3	0-10	50-80	40-80	40-70	30-65	20-35	3-15
	27-43	Extremely gravelly clay loam, extremely gravelly sandy clay loam, extremely gravelly loam	GC-GM, GM, SC-SM, GC	A-1, A-2, A-4	0-5	3-15	40-70	40-70	30-65	15-55	20-35	3-15
	43-74	Extremely gravelly clay loam, extremely gravelly sandy clay loam, extremely gravelly loam	GC, GC-GM, GM, SC-SM	A-1, A-2, A-4	0-5	3-15	40-70	40-70	30-65	15-50	20-35	3-15
Urban Land-----	0-6	Variable			---	---	---	---	---	---	0-14	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Burkittsville---	0-10	Loam, silt loam	CL	A-6	---	0-3	75-100	75-100	70-90	60-80	30-38	12-19
	10-35	Loam, clay loam, sandy clay loam, gravelly sandy loam	CL	A-6	---	0-3	75-100	75-100	70-90	50-70	34-48	15-27
	35-130	Loam, loamy sand, coarse sandy loam	SM, SC-SM, ML	A-4	---	0	75-100	60-100	55-85	20-50	26-30	NP-14
MyB: Myersville-----	0-12	Gravelly silt loam	ML, CL-ML, CL	A-4	0	0-3	80-90	70-80	60-75	45-70	18-28	2-10
	12-35	Silty clay loam, clay loam, channery clay loam	CL	A-6	0	0-3	70-100	60-100	55-90	50-85	28-38	12-20
	35-60	Silt loam, channery silt loam, very channery silty clay loam	GM, GC, CL- ML, CL	A-1, A-2, A- 3, A-4	0	0-3	25-90	20-85	12-75	8-60	0-28	NP-10
	60-71	Weathered bedrock			---	---	---	---	---	---	---	---
	71-81	Unweathered bedrock			---	---	---	---	---	---	---	---
Catoctin-----	0-6	Channery loam	GM, CL, SM, ML	A-2, A-4	0	0-25	50-80	35-75	30-65	25-60	0-30	NP-8
	6-28	Channery silt loam, channery silty clay loam, channery loam	CL, GM, SC, SM	A-2, A-4, A-6	0	0-25	50-80	35-75	30-60	25-60	20-34	2-12
	28-38	Very channery silt loam, channery silt loam	GC, GM, SC, SM	A-1, A-2, A- 3, A-4	0-1	10-40	30-75	10-60	9-55	7-50	0-28	NP-8
	>38	Bedrock			---	---	---	---	---	---	---	---
Urban Land-----	0-6	Variable			---	---	---	---	---	0-14	---	

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
RwA:												
Rowland-----	0-11	Silt loam	ML, SM	A-4	0	0-5	95-100	95-100	75-100	35-95	0-14	---
	11-34	Silt loam, loam, sandy clay loam	ML, SM	A-4, A-6, A-7	0	0-5	95-100	95-100	75-100	35-95	24-45	NP-15
	34-54	Sandy clay, silt loam, gravelly silty clay loam	ML, SM	A-4, A-6, A-7	0	0-10	90-100	70-100	65-100	35-95	25-50	3-17
	54-66	Stratified gravel to sand	SM, GM	A-1, A-2	0-1	0-15	55-80	30-70	20-40	15-30	0-14	---
ScC:												
Spoolsville----	0-10	Loam, silt loam	CL	A-6, A-4	---	---	90-100	80-95	75-90	70-85	26-32	8-13
	10-38	Loam, silt loam	CL, CL-ML	A-4	---	---	90-100	80-95	75-85	60-80	25-28	7-9
	38-58	Loam, silt loam, sandy loam	SC-SM	A-4	---	---	85-95	65-90	60-85	50-75	21-23	4-6
	>58	Bedrock			---	---	---	---	---	---	---	---
Burkittsville---	0-10	Loam, silt loam	CL	A-6	---	0-3	75-100	75-100	70-90	60-80	30-38	12-19
	10-35	Loam, clay loam, sandy clay loam	CL	A-6	---	0-3	75-100	75-100	70-90	50-70	34-48	15-27
	35-130	Loam, loamy sand, coarse sandy loam	SM, ML, SC-SM	A-4	---	0	75-100	60-100	55-85	20-50	26-30	NP-14
ScD:												
Spoolsville----	0-10	Loam, silt loam	CL	A-6, A-4	---	---	90-100	80-95	75-90	70-85	26-32	8-13
	10-38	Loam, silt loam	CL-ML, CL	A-4	---	---	90-100	80-95	75-85	60-80	25-28	7-9
	38-58	Loam, silt loam, sandy loam	SC-SM	A-4	---	---	85-95	65-90	60-85	50-75	21-23	4-6
	>58	Bedrock			---	---	---	---	---	---	---	---
Burkittsville---	0-10	Loam, silt loam	CL	A-6	---	0-3	75-100	75-100	70-90	60-80	30-38	12-19
	10-35	Loam, clay loam, sandy clay loam	CL	A-6	---	0-3	75-100	75-100	70-90	50-70	34-48	15-27
	35-130	Loam, loamy sand, coarse sandy loam	SC-SM, ML, SM	A-4	---	0	75-100	60-100	55-85	20-50	26-30	NP-14

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
SpA: Springwood-----	0-4	Gravelly loam	CL-ML, CL	A-4, A-6	0	0	80-100	75-100	55-100	40-95	20-46	5-27
	4-9	Silt loam, gravelly silty clay loam, gravelly clay loam	CL	A-4, A-6	0	0-5	70-100	65-100	55-100	40-95	20-46	5-27
	9-21	Loam, gravelly silt loam, gravelly silty clay loam, clay loam, clay, silty clay loam	CL	A-7-6	0	0-5	70-100	65-100	60-100	45-95	27-65	10-47
	21-34	Loam, gravelly silt loam, gravelly silty clay loam, clay loam, clay, silty clay loam	CL	A-7-6	0	0-5	70-100	65-100	60-100	45-95	27-65	10-47
	34-52	Loam, gravelly silt loam, gravelly silty clay loam, clay loam, clay, silty clay loam	CL	A-7-6	0	0-5	70-100	65-100	60-100	45-95	27-65	10-47
	52-62	Silt loam, gravelly silt loam	CL	A-7-6	0	0-15	60-100	50-100	45-100	35-95	27-65	10-47

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
SpB: Springwood-----	0-4	Gravelly loam	CL, CL-ML	A-4, A-6	0	0	80-100	75-100	55-100	40-95	20-46	5-27
	4-9	Silt loam, gravelly silty clay loam, gravelly clay loam	CL	A-4, A-6	0	0-5	70-100	65-100	55-100	40-95	20-46	5-27
	9-21	Loam, gravelly silt loam, gravelly silty clay loam, clay loam, clay, silty clay loam	CL	A-7-6	0	0-5	70-100	65-100	60-100	45-95	27-65	10-47
	21-34	Loam, gravelly silt loam, gravelly silty clay loam, clay loam, clay, silty clay loam	CL	A-7-6	0	0-5	70-100	65-100	60-100	45-95	27-65	10-47
	34-52	Loam, gravelly silt loam, gravelly silty clay loam, clay loam, clay, silty clay loam	CL	A-7-6	0	0-5	70-100	65-100	60-100	45-95	27-65	10-47
	52-62	Silt loam, gravelly silt loam	CL	A-7-6	0	0-15	60-100	50-100	45-100	35-95	27-65	10-47

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
SpC: Springwood-----	0-4	Gravelly loam	CL, CL-ML	A-4, A-6	0	0	80-100	75-100	55-100	40-95	20-46	5-27
	4-9	Silt loam, gravelly silty clay loam, gravelly clay loam	CL	A-4, A-6	0	0-5	70-100	65-100	55-100	40-95	20-46	5-27
	9-21	Loam, gravelly silt loam, gravelly silty clay loam, clay loam, clay, silty clay loam	CL	A-7-6	0	0-5	70-100	65-100	60-100	45-95	27-65	10-47
	21-34	Loam, gravelly silt loam, gravelly silty clay loam, clay loam, clay, silty clay loam	CL	A-7-6	0	0-5	70-100	65-100	60-100	45-95	27-65	10-47
	34-52	Loam, gravelly silt loam, gravelly silty clay loam, clay loam, clay, silty clay loam	CL	A-7-6	0	0-5	70-100	65-100	60-100	45-95	27-65	10-47
	52-62	Silt loam, gravelly silt loam	CL	A-7-6	0	0-15	60-100	50-100	45-100	35-95	27-65	10-47

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
SrB: Springwood-----	0-4	Gravelly loam	CL, CL-ML	A-4, A-6	0	0	80-100	75-100	55-100	40-95	20-46	5-27
	4-9	Silt loam, gravelly silty clay loam, gravelly clay loam	CL	A-4, A-6	0	0-5	70-100	65-100	55-100	40-95	20-46	5-27
	9-21	Loam, gravelly silt loam, gravelly silty clay loam, clay loam, clay, silty clay loam	CL	A-7-6	0	0-5	70-100	65-100	60-100	45-95	27-65	10-47
	21-34	Loam, gravelly silt loam, gravelly silty clay loam, clay loam, clay, silty clay loam	CL	A-7-6	0	0-5	70-100	65-100	60-100	45-95	27-65	10-47
	34-52	Loam, gravelly silt loam, gravelly silty clay loam, clay loam, clay, silty clay loam	CL	A-7-6	0	0-5	70-100	65-100	60-100	45-95	27-65	10-47
	52-62	Silt loam, gravelly silt loam	CL	A-7-6	0	0-15	60-100	50-100	45-100	35-95	27-65	10-47
	0-4	Loam	CL, CL-ML	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
	4-9	Silt loam	CL, CL-ML	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
Morven-----	9-20	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
	20-35	Silt loam, silty clay loam	CL-ML, CL	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
	35-46	Silt loam, silty clay loam	CL-ML, CL	A-4, A-6	---	0-2	95-100	90-100	85-100	80-95	25-40	4-15
	46-62	Silty clay loam, silt loam, silty clay, clay	CL	A-4, A-6, A-7	---	0-2	90-100	75-100	70-100	65-95	25-45	9-20

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
TaB: Thurmont-----	0-11	Gravelly loam	CL, SC, SC- SM, SM	A-1, A-2, A-4	---	0-3	75-90	50-75	35-65	20-55	0-30	NP-10
	11-22	Clay loam, loam, gravelly sandy clay loam	CL, SC	A-2, A-6, A-7	---	2-20	75-90	55-75	45-70	25-55	30-45	12-20
	22-41	Sandy loam, sandy clay loam, gravelly sandy clay loam	SC	A-2, A-6, A-7	---	2-20	75-90	55-75	35-60	20-40	30-45	12-25
	41-84	Cobbly sandy loam, gravelly sandy clay loam	SM, SC-SM	A-1, A-2	---	15-40	70-85	45-75	30-50	15-35	0-20	NP-7
TaC: Thurmont-----	0-11	Gravelly loam	SM, SC-SM, SC, CL	A-1, A-2, A-4	---	0-3	75-90	50-75	35-65	20-55	0-30	NP-10
	11-22	Clay loam, loam, gravelly sandy clay loam	SC, CL	A-2, A-6, A-7	---	2-20	75-90	55-75	45-70	25-55	30-45	12-20
	22-41	Sandy loam, sandy clay loam, gravelly sandy clay loam	SC	A-7, A-2, A-6	---	2-20	75-90	55-75	35-60	20-40	30-45	12-25
	41-84	Cobbly sandy loam, gravelly sandy clay loam	SM, SC-SM	A-1, A-2	---	15-40	70-85	45-75	30-50	15-35	0-20	NP-7

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
ThB: Thurmont-----	0-11	Very stony loam	SC-SM, CL, SC, SM	A-1, A-2, A-4	---	0-3	75-90	50-75	35-65	20-55	0-30	NP-10
	11-22	Clay loam, loam, gravelly sandy clay loam	CL, SC	A-2, A-6, A-7	---	2-20	75-90	55-75	45-70	25-55	30-45	12-20
	22-41	Sandy loam, sandy clay loam, gravelly sandy clay loam	SC	A-2, A-6, A-7	---	2-20	75-90	55-75	35-60	20-40	30-45	12-25
	41-84	Cobbly sandy loam, gravelly sandy clay loam	SM, SC-SM	A-1, A-2	---	15-40	70-85	45-75	30-50	15-35	0-20	NP-7
ToA: Trego-----	0-9	Gravelly loam	CL-ML	A-4, A-6	0-1	0-10	70-95	65-90	50-80	45-75	20-35	4-11
	9-21	Gravelly sandy clay loam, gravelly loam, gravelly silt loam	ML, CL, CL-ML	A-4, A-6	0	0-5	60-95	55-80	50-75	45-70	20-35	3-15
	21-38	Gravelly sandy clay loam, gravelly loam, gravelly sandy loam	ML, SC, SC- SM, SM	A-2, A-4	0	0-10	60-85	55-80	50-75	30-65	20-40	3-15
	38-96	Gravelly sandy clay loam, gravelly sandy loam, gravelly loam	SM, SC, SC-SM	A-2, A-4	0	0-10	55-80	50-75	45-70	25-50	20-35	3-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
ToB: Trego-----	0-9	Gravelly loam	CL-ML	A-4, A-6	0-1	0-10	70-95	65-90	50-80	45-75	20-35	4-11
	9-21	Gravelly sandy clay loam, gravelly loam, gravelly silt loam	ML, CL-ML, CL	A-4, A-6	0	0-5	60-95	55-80	50-75	45-70	20-35	3-15
	21-38	Gravelly sandy clay loam, gravelly loam, gravelly sandy loam	ML, SC, SC- SM, SM	A-2, A-4	0	0-10	60-85	55-80	50-75	30-65	20-40	3-15
	38-96	Gravelly sandy clay loam, gravelly sandy loam, gravelly loam	SC, SC-SM, SM	A-2, A-4	0	0-10	55-80	50-75	45-70	25-50	20-35	3-15
TqB: Trego-----	0-9	Very stony loam	CL-ML	A-4, A-6	0-1	0-10	70-95	65-90	50-80	45-75	20-35	4-11
	9-21	Gravelly sandy clay loam, gravelly loam, gravelly silt loam	CL-ML, CL, ML	A-4, A-6	0	0-5	60-95	55-80	50-75	45-70	20-35	3-15
	21-38	Gravelly sandy clay loam, gravelly loam, gravelly sandy loam	SM, SC-SM, ML, SC	A-2, A-4	0	0-10	60-85	55-80	50-75	30-65	20-40	3-15
	38-96	Gravelly sandy clay loam, gravelly sandy loam, gravelly loam	SC-SM, SM, SC	A-2, A-4	0	0-10	55-80	50-75	45-70	25-50	20-35	3-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
TrB: Trego-----	0-9	Cobbly loam	CL-ML	A-4, A-6	0-1	0-10	70-95	65-90	50-80	45-75	20-35	4-11
	9-21	Gravelly sandy clay loam, gravelly loam, gravelly silt loam	CL, CL-ML, ML	A-4, A-6	0	0-5	60-95	55-80	50-75	45-70	20-35	3-15
	21-38	Gravelly sandy clay loam, gravelly loam, gravelly sandy loam	SC-SM, SM, SC, ML	A-2, A-4	0	0-10	60-85	55-80	50-75	30-65	20-40	3-15
	38-96	Gravelly sandy clay loam, gravelly sandy loam, gravelly loam	SC, SC-SM, SM	A-2, A-4	0	0-10	55-80	50-75	45-70	25-50	20-35	3-15
TxB: Trego-----	0-9	Cobbly loam	CL-ML	A-4, A-6	0-1	0-10	70-95	65-90	50-80	45-75	20-35	4-11
	9-21	Gravelly sandy clay loam, gravelly loam, gravelly silt loam	CL, CL-ML, ML	A-4, A-6	0	0-5	60-95	55-80	50-75	45-70	20-35	3-15
	21-38	Gravelly sandy clay loam, gravelly loam, gravelly sandy loam	SC, SC-SM, SM, ML	A-2, A-4	0	0-10	60-85	55-80	50-75	30-65	20-40	3-15
	38-96	Gravelly sandy clay loam, gravelly sandy loam, gravelly loam	SM, SC-SM, SC	A-2, A-4	0	0-10	55-80	50-75	45-70	25-50	20-35	3-15
Foxville-----	0-4	Extremely stony loam	CL-ML, CL	A-4	50-80	15-30	80-95	70-95	60-80	55-75	21-30	4-11
	4-43	Extremely stony silt loam, extremely stony loam, very cobbly silt loam	CL, CL-ML	A-4	0-20	20-50	80-95	75-95	65-85	60-75	21-30	4-11
	43-58	Silt loam, loam, gravelly silt loam	CL, CL-ML	A-4, A-6	0-10	0-10	85-100	65-80	60-75	55-70	24-34	7-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
UdB: Udorthents-----	0-2 2-65	Clay loam Silty clay loam, silty clay, clay	CL CH, CL	A-6 A-7	0 0	0-5 0-5	90-100 90-100	80-100 85-100	80-100 75-100	60-90 65-95	25-35 40-55	10-15 15-30
UdC: Udorthents-----	0-2 2-65	Clay loam Silty clay loam, silty clay, clay	CL CH, CL	A-6 A-7	0 0	0-5 0-5	90-100 90-100	80-100 85-100	80-100 75-100	60-90 65-95	25-35 40-55	10-15 15-30
UrA: Urban Land-----	0-6	Variable			---	---	---	---	---	---	0-14	---
UrC: Urban Land-----	0-6	Variable			---	---	---	---	---	---	0-14	---
W: Water-----	---	---	---	---	---	---	---	---	---	---	---	---
WaA: Walkersville----	0-11 11-30 30-72	Gravelly loam Silty clay loam, gravelly clay loam, gravelly loam Silty clay, gravelly silty clay loam, gravelly clay loam	ML, CL-ML, CL ML, CL-ML, CL CL, CH	A-4, A-6 A-4, A-6 A-6, A-7	0 0 0	0-5 0-5 0-1	80-100 80-100 80-100	75-90 75-95 75-90	65-80 70-90 70-85	60-75 65-85 65-80	15-30 15-40 30-55	NP-11 3-25 15-35
WaB: Walkersville----	0-11 11-30 30-72	Gravelly loam Silty clay loam, gravelly clay loam, gravelly loam Silty clay, gravelly silty clay loam, gravelly clay loam	CL, CL-ML, ML CL-ML, ML, CL CL, CH	A-4, A-6 A-4, A-6 A-6, A-7	0 0 0	0-5 0-5 0-1	80-100 80-100 80-100	75-90 75-95 75-90	65-80 70-90 70-85	60-75 65-85 65-80	15-30 15-40 30-55	NP-11 3-25 15-35

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
WtB: Wiltshire-----	0-10	Silt loam, clay loam, loam	CL	A-7, A-6	0	0-2	90-100	85-100	80-90	70-85	25-45	8-19
	10-29	Silty clay loam, clay loam, silt loam	CL	A-7	0	0-2	90-100	80-100	75-90	50-65	25-43	8-18
	29-43	Very gravelly silt loam, very gravelly loam, very gravelly clay loam	SC	A-4	0	0-2	65-75	55-65	45-55	35-45	25-34	8-13
	43-98	Very gravelly sandy loam, very gravelly sandy clay loam, extremely channery sandy clay loam, very gravelly loam	SC, GC-GM	A-2	0	0-2	55-65	45-50	35-45	25-35	21-30	6-11
Funkstown-----	0-12	Gravelly silt loam	ML, CL	A-4, A-6	0	0	95-100	85-100	80-100	65-80	15-30	3-11
	12-29	Gravelly silt loam, gravelly silty clay loam, very gravelly loam	SM, ML, CL	A-2, A-4, A-6	0	0	65-90	60-85	55-80	30-70	15-35	3-15
	29-45	Silty clay loam, clay loam, loam	ML, CL	A-4, A-6, A-7	0	0	95-100	90-100	80-90	65-80	20-45	3-20
	45-80	Channery silt loam, channery silty clay loam, channery loam	CL, ML	A-4, A-6, A-7	0	0	65-90	60-85	55-80	50-70	20-45	3-20

