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

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas-ticity index
	In				Pct	Pct					Pct	
AbB:												
Albrights-------	0-8	Silt loam	CL	A-4	0	0-10	80-100	80-95	70-90	55-80	15-30	5-10
	8-21	Channery clay loam, gravelly silt loam, silty clay loam	CL, ML, SC, SM	A-4, A-6	0	0-15	80-100	65-95	60-90	40-85	25-40	3-15
	21-60	Silt loam, gravelly silty clay loam, channery clay loam	CL, ML, SC, SC-SM	A-2, A-4, A-6	0	0-15	65-100	45-95	40-90	25-80	20-40	3-15
AbC2:												
Albrights-------	0-8	Silt loam	CL	A-4	0	0-10	80-100	80-95	70-90	55-80	15-30	5-10
	8-21	Channery clay loam, gravelly silt loam, silty clay loam	CL, ML, SC, SM	A-4, A-6	0	0-15	80-100	65-95	60-90	40-85	25-40	3-15
	21-60	Silt loam, gravelly silty clay loam, channery clay loam	SC, SC-SM, CL, ML	A-2, A-4, A-6	0	0-15	65-100	45-95	40-90	25-80	20-40	3-15
AgC:												
Albrights-------	0-8	Very stony silt loam	CL, ML	A-4	---	3-15	65-100	60-90	55-85	50-80	15-30	1-10
	8-21	Channery clay loam, gravelly silt loam, silty clay loam	CL, ML, SC, SM	A-4, A-6	0	0-15	80-100	65-95	60-90	40-85	25-40	3-15
	21-60	Silt loam, gravelly silty clay loam, channery clay loam	CL, ML, SC, SC-SM	A-2, A-4, A-6	0	0-15	65-100	55-95	40-90	25-80	20-40	3-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
AhB:												
Allegheny-------	0-9	Fine sandy loam	CL-ML, ML, SC-SM, SM	A-4	0	0	90-100	80-100	60-85	35-55	15-20	NP-5
	9-40	Clay loam, loam, sandy clay loam	CL, ML, SC, SM	A-4, A-6	0	0	90-100	80-100	65-95	35-80	15-35	NP-15
	40-65	Clay loam, sandy loam, gravelly sandy loam	CL, GC, ML, SM	A-1, A-2, A-4, A-6	---	0-5	65-100	55-100	35-95	20-75	15-35	NP-15
An:												
Alluvial Land---	0-6	Silt loam	CL-ML, GM, ML, SM	A-4	0	0-5	75-100	60-100	55-90	45-80	15-25	2-6
	6-42	Sandy loam, silt loam, gravelly loam	CL-ML, GM, ML, SM	A-4	0	0-10	75-100	60-100	50-90	35-80	10-25	NP-6
	42-60	Silt loam, loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	0	0	95-100	95-100	80-100	50-95	15-40	2-25
Ao:												
Alluvial Land---	0-6	Silt loam	CL-ML, GM, ML, SM	A-4	0	0-5	75-100	60-100	55-90	45-80	15-25	2-6
	6-42	Sandy loam, silt loam, gravelly loam	CL-ML, GM, ML, SM	A-4	0	0-10	75-100	60-100	50-90	35-80	10-25	NP-6
	42-60	Silt loam, loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	0	0	95-100	95-100	80-100	50-95	15-40	2-25
Ar:												
Armagh----------	0-10	Silt loam	ML	A-4, A-6	---	0-5	95-100	90-100	80-95	75-85	0-14	---
	10-41	Silty clay loam, silty clay, shaly clay	MH, ML	A-4, A-6, A-7	---	0-5	80-95	65-90	60-85	55-85	35-55	9-25
	41-60	Silty clay, shaly clay loam, very shaly loam	GC, GM, SC, SM	A-2, A-4, A-6, A-7	---	0-40	55-90	20-85	15-60	15-45	30-45	9-18

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
At:												
Atkins----------	0-10	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	90-100	85-100	75-100	60-95	20-40	3-20
	10-34	Silty clay loam, silt loam, sandy loam	CL, ML, SC, SM	A-4, A-6	---	0-5	90-100	85-100	65-100	45-85	20-40	3-20
	34-60	Stratified silty clay loam to gravelly sandy loam	CL, GM, ML, SM	A-4, A-6, A-2	---	0-15	60-100	60-100	50-95	30-85	20-40	1-15
BrA:												
Andover---------	0-7	Silt loam	ML, SM	A-4	0	0-5	85-100	80-95	60-90	35-85	20-35	NP-10
	7-18	Loam, gravelly clay loam, cobbly sandy clay loam	CL, CL-ML, ML, SM	A-2, A-4	---	0-20	80-95	65-85	60-85	30-60	20-35	2-10
	18-48	Loam, gravelly clay loam, cobbly sandy clay loam	CL-ML, ML, SC-SM, SM	A-2, A-4	---	0-20	80-95	65-85	60-85	30-60	20-35	2-9
	48-60	Gravelly sandy clay loam, cobbly loam, cobbly sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	---	5-30	70-95	55-90	50-75	25-60	20-35	2-9
Brinkerton------	0-8	Silt loam	ML	A-4, A-6	0	0-10	90-100	85-100	85-100	75-100	0-14	---
	8-21	Silty clay loam, silt loam	ML	A-4, A-5, A-6, A-7	0	0-10	90-100	85-100	85-100	65-100	30-45	5-15
	21-42	Silt loam, shaly loam, channery silty clay loam	ML	A-4, A-5, A-6, A-7	0	0-10	75-100	60-100	60-100	55-100	30-45	5-15
	42-60	Silt loam, shaly loam, channery silt loam	CL, ML, SC, SM	A-1, A-2, A-4, A-6	0	0-50	70-90	25-85	25-85	20-75	30-40	5-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
BrB:												
Andover---------	0-7	Silt loam	ML, SM	A-4	0	0-5	85-100	80-95	60-90	35-85	20-35	NP-10
	7-18	Loam, gravelly clay loam, cobbly sandy clay loam	CL, CL-ML, ML, SM	A-2, A-4	---	0-20	80-95	65-85	60-85	30-60	20-35	2-10
	18-48	Loam, gravelly clay loam, cobbly sandy clay loam	CL-ML, ML, SC-SM, SM	A-2, A-4	---	0-20	80-95	65-85	60-85	30-60	20-35	2-9
	48-60	Gravelly sandy clay loam, cobbly loam, cobbly sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	---	5-30	70-95	55-90	50-75	25-60	20-35	2-9
Brinkerton------	0-8	Silt loam	ML	A-4, A-6	0	0-10	90-100	85-100	85-100	75-100	0-14	---
	8-21	Silty clay loam, silt loam	ML	A-4, A-5, A-6, A-7	0	0-10	90-100	85-100	85-100	65-100	30-45	5-15
	21-42	Silt loam, shaly loam, channery silty clay loam	ML	A-4, A-5, A-6, A-7	0	0-10	75-100	60-100	60-100	55-100	30-45	5-15
	42-60	Silt loam, shaly loam, channery silt loam	CL, ML, SC, SM	A-1, A-2, A-4, A-6	0	0-50	70-90	25-85	25-85	20-75	30-40	5-15
BsC:												
Andover---------	0-7	Very stony silt loam	ML, SM	A-2, A-4	---	3-10	70-100	65-95	60-90	30-85	20-35	NP-10
	7-18	Loam, gravelly clay loam, cobbly sandy clay loam	CL, ML, SC, SM	A-2, A-4	---	0-25	80-95	65-85	60-80	30-60	20-35	2-10
	18-48	Loam, gravelly clay loam, cobbly sandy clay loam	CL-ML, ML, SC-SM, SM	A-2, A-4	---	0-25	80-95	65-85	60-85	30-60	20-35	2-9
	48-60	Gravelly sandy clay loam, cobbly loam, cobbly sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	---	5-30	70-95	55-90	50-75	25-60	20-35	2-9

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
Brinkerton------	0-8	Very stony silt loam	ML	A-4, A-6	---	3-20	90-100	85-100	85-100	75-100	0-14	---
	8-21	Silty clay loam, silt loam	ML	A-4, A-5, A-6, A-7	---	0-10	90-100	85-100	85-100	65-100	30-45	5-15
	21-42	Silt loam, shaly loam, channery silty clay loam	ML	A-4, A-5, A-6, A-7	---	0-10	75-100	60-100	60-100	55-100	30-45	5-15
	42-60	Silt loam, shaly loam, channery silt loam	CL, ML, SC, SM	A-1, A-2, A-4, A-6	---	0-50	70-90	25-85	25-85	20-75	30-40	5-15
CaC2:												
Calvin----------	0-8	Channery loam	ML	A-4	0	0-15	70-95	70-90	65-90	55-75	0-14	---
	8-27	Channery silt loam, channery loam, very channery clay loam	GM, ML, SM	A-2, A-4, A-6	0	0-15	70-95	55-90	40-90	30-75	22-38	NP-11
	27-34	Channery silt loam, very channery silt loam, very channery loam	GC, GM, SC, SM	A-1, A-2, A-4, A-6	0	0-20	35-75	30-65	15-60	15-40	23-39	3-13
	34-38	Unweathered bedrock			---	---	---	---	---	---	0-14	---
Gilpin----------	0-8	Channery loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-90	45-85	35-75	30-70	20-40	4-15
	8-24	Channery loam, shaly silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	24-30	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
Ungers----------	0-8	Channery loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	55-85	40-70	25-55	0-14	---
	8-40	Loam, channery clay loam, very channery sandy clay loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	40-90	30-70	25-55	25-35	1-10
	40-54	Channery loam, very channery sandy loam	GC, GC-GM, GM, SM	A-1, A-2	---	0-15	55-85	25-50	20-40	15-30	20-35	NP-11
	54-58	Unweathered bedrock			---	---	---	---	---	---	---	---
CaD2:												
Calvin----------	0-8	Channery loam	ML	A-4	0	0-15	70-95	70-90	65-90	55-75	0-14	---
	8-27	Channery silt loam, channery loam, very channery clay loam	GM, ML, SM	A-2, A-4, A-6	0	0-15	70-95	55-90	40-90	30-75	22-38	NP-11
	27-34	Channery silt loam, very channery silt loam, very channery loam	GC, GM, SC, SM	A-1, A-2, A-4, A-6	0	0-20	35-75	30-65	15-60	15-40	23-39	3-13
	34-38	Unweathered bedrock			---	---	---	---	---	---	0-14	---
Gilpin----------	0-8	Channery loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-90	45-85	35-75	30-70	20-40	4-15
	8-24	Channery loam, shaly silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	24-30	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
Ungers----------	0-8	Channery loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	55-85	40-70	25-55	0-14	---
	8-40	Loam, channery clay loam, very channery sandy clay loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	40-90	30-70	25-55	25-35	1-10
	40-54	Channery loam, very channery sandy loam	GC, GC-GM, GM, SM	A-1, A-2	---	0-15	55-85	25-50	20-40	15-30	20-35	NP-11
	54-58	Unweathered bedrock			---	---	---	---	---	---	---	---
CaD3:												
Calvin----------	0-8	Channery loam	ML	A-4	0	0-15	70-95	70-90	65-90	55-75	0-14	---
	8-27	Channery silt loam, channery loam, very channery clay loam	GM, ML, SM	A-2, A-4, A-6	0	0-15	70-95	55-90	40-90	30-75	22-38	NP-11
	27-34	Channery silt loam, very channery silt loam, very channery loam	GC, GM, SC, SM	A-1, A-2, A-4, A-6	0	0-20	35-75	30-65	15-60	15-40	23-39	3-13
	34-38	Unweathered bedrock			---	---	---	---	---	---	0-14	---
Gilpin----------	0-8	Channery loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-90	45-85	35-75	30-70	20-40	4-15
	8-24	Channery loam, shaly silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	24-30	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
Ungers----------	0-8	Channery loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	55-85	40-70	25-55	0-14	---
	8-40	Loam, channery clay loam, very channery sandy clay loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	40-90	30-70	25-55	25-35	1-10
	40-54	Channery loam, very channery sandy loam	GC, GC-GM, GM, SM	A-1, A-2	---	0-15	55-85	25-50	20-40	15-30	20-35	NP-11
	54-58	Unweathered bedrock			---	---	---	---	---	---	---	---
ClE:												
Calvin----------	0-8	Channery loam	ML	A-4	0	0-15	70-95	70-90	65-90	55-75	0-14	---
	8-27	Channery silt loam, channery loam, very channery clay loam	GM, ML, SM	A-2, A-4, A-6	0	0-15	70-95	55-90	40-90	30-75	22-38	NP-11
	27-34	Channery silt loam, very channery silt loam, very channery loam	GC, GM, SC, SM	A-1, A-2, A-4, A-6	0	0-20	35-75	30-65	15-60	15-40	23-39	3-13
	34-38	Unweathered bedrock			---	---	---	---	---	---	0-14	---
Lehew----------	0-6	Channery loam	CL-ML, GM, ML, SM	A-2, A-4	0	5-30	50-80	45-70	40-65	25-60	15-30	NP-7
	6-20	Very channery sandy loam, channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	5-40	45-75	30-65	20-55	10-40	15-30	NP-7
	20-32	Very channery sandy loam, very channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	10-50	45-75	30-65	20-55	10-40	15-30	NP-7
	32-36	Weathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
CnC2:												
Calvin----------	0-8	Channery loam	ML	A-4	0	0-15	70-95	70-90	65-90	55-75	0-14	---
	8-27	Channery silt loam, channery loam, very channery clay loam	GM, ML, SM	A-2, A-4, A-6	0	0-15	70-95	55-90	40-90	30-75	22-38	NP-11
	27-34	Channery silt loam, very channery silt loam, very channery loam	GC, GM, SC, SM	A-1, A-2, A-4, A-6	0	0-20	35-75	30-65	15-60	15-40	23-39	3-13
	34-38	Unweathered bedrock			---	---	---	---	---	---	0-14	---
Lehew----------	0-6	Channery loam	CL-ML, GM, ML, SM	A-2, A-4	0	5-30	50-80	45-70	40-65	25-60	15-30	NP-7
	6-20	Very channery sandy loam, channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	5-40	45-75	30-65	20-55	10-40	15-30	NP-7
	20-32	Very channery sandy loam, very channery fine sandy loam, channery loam	GM, SC-SM, SM, GC-GM	A-2, A-4	---	10-50	45-75	30-65	20-55	10-40	15-30	NP-7
	32-36	Weathered bedrock			---	---	---	---	---	---	---	---
Ungers----------	0-8	Channery loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	55-85	40-70	25-55	0-14	---
	8-40	Loam, channery clay loam, very channery sandy clay loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	40-90	30-70	25-55	25-35	1-10
	40-54	Channery loam, very channery sandy loam	GC, GC-GM, GM, SM	A-1, A-2	---	0-15	55-85	25-50	20-40	15-30	20-35	NP-11
	54-58	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
CnD2:												
Calvin----------	0-8	Channery loam	ML	A-4	0	0-15	70-95	70-90	65-90	55-75	0-14	---
	8-27	Channery silt loam, channery loam, very channery clay loam	GM, ML, SM	A-2, A-4, A-6	0	0-15	70-95	55-90	40-90	30-75	22-38	NP-11
	27-34	Channery silt loam, very channery silt loam, very channery loam	GC, GM, SC, SM	A-1, A-2, A-4, A-6	0	0-20	35-75	30-65	15-60	15-40	23-39	3-13
	34-38	Unweathered bedrock			---	---	---	---	---	---	0-14	---
Lehew----------	0-6	Channery loam	CL-ML, GM, ML, SM	A-2, A-4	0	5-30	50-80	45-70	40-65	25-60	15-30	NP-7
	6-20	Very channery sandy loam, channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	5-40	45-75	30-65	20-55	10-40	15-30	NP-7
	20-32	Very channery sandy loam, very channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	10-50	45-75	30-65	20-55	10-40	15-30	NP-7
	32-36	Weathered bedrock			---	---	---	---	---	---	---	---
Ungers----------	0-8	Channery loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	55-85	40-70	25-55	0-14	---
	8-40	Loam, channery clay loam, very channery sandy clay loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	40-90	30-70	25-55	25-35	1-10
	40-54	Channery loam, very channery sandy loam	GC, GC-GM, GM, SM	A-1, A-2	---	0-15	55-85	25-50	20-40	15-30	20-35	NP-11
	54-58	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
CnD3:												
Calvin----------	0-8	Channery loam	ML	A-4	0	0-15	70-95	70-90	65-90	55-75	0-14	---
	8-27	Channery silt loam, channery loam, very channery clay loam	GM, ML, SM	A-2, A-4, A-6	0	0-15	70-95	55-90	40-90	30-75	22-38	NP-11
	27-34	Channery silt loam, very channery silt loam, very channery loam	GC, GM, SC, SM	A-1, A-2, A-4, A-6	0	0-20	35-75	30-65	15-60	15-40	23-39	3-13
	34-38	Unweathered bedrock			---	---	---	---	---	---	0-14	---
Lehew----------	0-6	Channery loam	CL-ML, GM, ML, SM	A-2, A-4	0	5-30	50-80	45-70	40-65	25-60	15-30	NP-7
	6-20	Very channery sandy loam, channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	5-40	45-75	30-65	20-55	10-40	15-30	NP-7
	20-32	Very channery sandy loam, very channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	10-50	45-75	30-65	20-55	10-40	15-30	NP-7
	32-36	Weathered bedrock			---	---	---	---	---	---	---	---
Ungers----------	0-8	Channery loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	55-85	40-70	25-55	0-14	---
	8-40	Loam, channery clay loam, very channery sandy clay loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	40-90	30-70	25-55	25-35	1-10
	40-54	Channery loam, very channery sandy loam	GC, GC-GM, GM, SM	A-1, A-2	---	0-15	55-85	25-50	20-40	15-30	20-35	NP-11
	54-58	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
CoB:												
Cavode----------	0-10	Silt loam	ML	A-4	---	0-5	90-100	80-100	80-95	75-95	0-14	---
	10-30	Silty clay loam, silty clay, clay	CL-ML, ML	A-4, A-6, A-7	---	0-5	85-100	80-100	80-95	70-95	25-50	4-20
	30-57	Shaly silty clay loam, silty clay, clay	GM, ML	A-2, A-4, A-6	---	0-45	50-100	35-100	30-80	25-75	25-45	2-15
	57-61	Unweathered bedrock			---	---	---	---	---	---	---	---
CoC2:												
Cavode----------	0-10	Silt loam	ML	A-4	---	0-5	90-100	80-100	80-95	75-95	0-14	---
	10-30	Silty clay loam, silty clay, clay	CL-ML, ML	A-4, A-6, A-7	---	0-5	85-100	80-100	80-95	70-95	25-50	4-20
	30-57	Shaly silty clay loam, silty clay, clay	GM, ML	A-2, A-4, A-6	---	0-45	50-100	35-100	30-80	25-75	25-45	2-15
	57-61	Unweathered bedrock			---	---	---	---	---	---	---	---
CrB:												
Clymer----------	0-8	Channery loam	GM, ML, SM	A-2, A-4	---	0-15	60-80	50-70	45-65	30-60	10-30	NP-9
	8-36	Sandy loam, channery loam, channery clay loam	GC, GM, ML, SM	A-2, A-4	---	0-20	60-95	50-95	45-85	30-60	14-32	NP-9
	36-50	Channery loam, very channery loam, channery sandy loam	GC, GM, GP-GM, SM	A-1, A-2, A-3, A-4	---	10-30	30-75	25-70	20-60	5-40	14-32	NP-9
	50-54	Weathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
CtB:												
Cookport--------	0-12	Channery loam	CL, ML, SC, SM	A-2, A-4, A-6	---	0-15	75-100	60-70	50-60	30-55	20-40	1-15
	12-20	Sandy clay loam, clay loam, channery loam	CL, SC	A-4, A-6	---	0-15	85-100	65-100	55-95	40-75	20-40	4-20
	20-38	Sandy clay loam, clay loam, channery loam	CL, SC	A-4, A-6	---	0-15	85-100	65-100	55-95	40-75	20-40	4-20
	38-42	Very channery sandy loam, channery loam	CL, GC-GM, ML, SC-SM	A-2, A-4, A-6	---	0-15	60-100	50-95	40-95	30-75	20-40	1-15
	42-46	Unweathered bedrock			---	---	---	---	---	---	---	---
CtC2:												
Cookport--------	0-12	Channery loam	CL, ML, SC, SM	A-2, A-4, A-6	---	0-15	75-100	60-70	50-60	30-55	20-40	1-15
	12-20	Sandy clay loam, clay loam, channery loam	CL, SC	A-4, A-6	---	0-15	85-100	65-100	55-95	40-75	20-40	4-20
	20-38	Sandy clay loam, clay loam, channery loam	CL, SC	A-6, A-4	---	0-15	85-100	65-100	55-95	40-75	20-40	4-20
	38-42	Very channery sandy loam, channery loam	CL, GC-GM, ML, SC-SM	A-2, A-4, A-6	---	0-15	60-100	50-95	40-95	30-75	20-40	1-15
	42-46	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
CuB:												
Cookport--------	0-12	Very stony silt loam	CL, ML, SC, SM	A-2, A-4, A-6	---	2-40	75-95	60-70	50-60	30-55	20-40	1-15
	12-20	Sandy clay loam, clay loam, channery loam	CL, SC	A-4, A-6	---	0-15	85-100	65-100	55-95	40-75	20-40	4-20
	20-38	Sandy clay loam, clay loam, channery loam	CL, SC	A-4, A-6	---	0-15	85-100	65-100	55-95	40-75	20-40	4-20
	38-42	Very channery sandy loam, channery loam	CL, GC-GM, ML, SC-SM	A-2, A-4, A-6	---	0-15	60-100	50-95	40-95	30-75	20-40	1-15
	42-46	Unweathered bedrock			---	---	---	---	---	---	---	---
Ernest----------	0-7	Very stony silt loam	CL, CL-ML	A-4, A-6	---	3-15	65-80	60-80	55-75	55-70	20-40	4-15
	7-27	Silty clay loam, silt loam, channery silt loam	CL, CL-ML	A-4, A-6, A-7	---	0-15	75-95	70-95	65-90	55-90	25-50	6-22
	27-47	Channery silt loam, channery loam, silty clay loam	ML, SC, CL, GM	A-4, A-6, A-7	---	0-20	70-95	55-95	55-90	45-90	20-45	4-18
	47-60	Channery silt loam, silt loam, silty clay loam	CL, SC	A-4, A-6, A-7	---	0-20	70-95	45-95	45-90	40-90	25-50	6-22

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
CuD:												
Cookport	0-12	Very stony silt loam	CL, ML, SC, SM	A-2, A-4, A-6	---	2-40	75-95	60-70	50-60	30-55	20-40	1-15
	12-20	Sandy clay loam, clay loam, channery loam	CL, SC	A-4, A-6	---	0-15	85-100	65-100	55-95	40-75	20-40	4-20
	20-38	Sandy clay loam, clay loam, channery loam	CL, SC	A-4, A-6	---	0-15	85-100	65-100	55-95	40-75	20-40	4-20
	38-42	Very channery sandy loam, channery loam	CL, GC-GM, ML, SC-SM	A-2, A-4, A-6	---	0-15	60-100	50-95	40-95	30-75	20-40	1-15
	42-46	Unweathered bedrock			---	---	---	---	---	---	---	---
Ernest	0-7	Very stony silt loam	CL, CL-ML	A-4, A-6	---	3-15	65-80	60-80	55-75	55-70	20-40	4-15
	7-27	Silty clay loam, silt loam, channery silt loam	CL, CL-ML	A-4, A-6, A-7	---	0-15	75-95	70-95	65-90	55-90	25-50	6-22
	27-47	Channery silt loam, channery loam, silty clay loam	CL, GM, ML, SC	A-4, A-6, A-7	---	0-20	70-95	55-95	55-90	45-90	20-45	4-18
	47-60	Channery silt loam, silt loam, silty clay loam	CL, SC	A-4, A-6, A-7	---	0-20	70-95	45-95	45-90	40-90	25-50	6-22
Cv:												
Cut And Fill Land	0-6	Very channery silt loam	CL, GC, GM, SC-SM	A-1, A-2, A-4	---	0-20	40-80	30-70	20-65	15-60	15-25	NP-10
	6-60	Very shaly silt loam, very channery sandy loam, shaly loam	GC, GM, GW-GM, SC-SM	A-1, A-2	---	0-45	25-80	20-50	10-30	5-30	15-40	NP-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
DbB:												
Dekalb----------	0-8	Channery loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	---	0-30	50-90	45-80	40-75	20-55	10-32	NP-10
	8-29	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	---	5-40	50-85	40-80	40-75	20-55	15-32	NP-9
	29-34	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	---	10-50	45-85	25-75	20-65	15-40	15-32	NP-9
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
DbC2:												
Dekalb----------	0-8	Channery loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	---	0-30	50-90	45-80	40-75	20-55	10-32	NP-10
	8-29	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	---	5-40	50-85	40-80	40-75	20-55	15-32	NP-9
	29-34	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	---	10-50	45-85	25-75	20-65	15-40	15-32	NP-9
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
DbD2:												
Dekalb----------	0-8	Channery loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	---	0-30	50-90	45-80	40-75	20-55	10-32	NP-10
	8-29	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	---	5-40	50-85	40-80	40-75	20-55	15-32	NP-9
	29-34	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GM, SC, SM, GC	A-2, A-4, A-1	---	10-50	45-85	25-75	20-65	15-40	15-32	NP-9
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
DcC:												
Calvin----------	0-8	Very stony loam	ML	A-4	---	3-15	70-100	70-100	65-95	55-90	0-14	---
	8-27	Shaly silt loam, channery loam, very shaly clay loam	GM, ML, SM	A-2, A-4, A-6	0	0-15	70-95	55-90	40-90	30-75	22-38	NP-11
	27-34	Shaly silt loam, very shaly silt loam, very channery loam	GC-GM, GM, SC-SM, SM	A-1, A-2, A-6	0	0-20	35-75	30-65	15-60	15-40	23-39	3-11
	34-38	Unweathered bedrock			---	---	---	---	---	---	0-14	---
Dekalb----------	0-8	Very stony loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	---	10-30	50-90	45-80	40-75	20-55	15-32	NP-7
	8-29	Channery sandy loam, channery loam, very channery sandy loam	GM, ML, SM	A-1, A-2, A-4	---	5-40	50-85	40-80	40-75	20-55	15-32	NP-7
	29-34	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	---	10-50	45-85	35-75	25-65	15-40	15-32	NP-9
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
Lehew----------	0-6	Very stony loam	CL-ML, GM, ML, SM	A-2, A-4	---	5-25	50-90	45-80	40-75	20-55	15-30	NP-7
	6-20	Very channery sandy loam, channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	5-40	45-75	30-65	20-55	10-40	15-30	NP-7
	20-32	Very channery sandy loam, very channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	10-50	45-75	30-65	20-55	10-40	15-30	NP-7
	32-36	Weathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
DcD:												
Calvin----------	0-8	Very stony loam	ML	A-4	---	3-15	70-100	70-100	65-95	55-90	0-14	---
	8-27	Shaly silt loam, channery loam, very shaly clay loam	GM, ML, SM	A-2, A-4, A-6	0	0-15	70-95	55-90	40-90	30-75	22-38	NP-11
	27-34	Shaly silt loam, very shaly silt loam, very channery loam	GC-GM, GM, SC-SM, SM	A-1, A-2, A-6	0	0-20	35-75	30-65	15-60	15-40	23-39	3-11
	34-38	Unweathered bedrock			---	---	---	---	---	---	0-14	---
Dekalb----------	0-8	Very stony loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	---	10-30	50-90	45-80	40-75	20-55	15-32	NP-7
	8-29	Channery sandy loam, channery loam, very channery sandy loam	GM, ML, SM	A-1, A-2, A-4	---	5-40	50-85	40-80	40-75	20-55	15-32	NP-7
	29-34	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	---	10-50	45-85	35-75	25-65	15-40	15-32	NP-9
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
Lehew----------	0-6	Very stony loam	CL-ML, GM, ML, SM	A-2, A-4	---	5-25	50-90	45-80	40-75	20-55	15-30	NP-7
	6-20	Very channery sandy loam, channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	5-40	45-75	30-65	20-55	10-40	15-30	NP-7
	20-32	Very channery sandy loam, very channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	10-50	45-75	30-65	20-55	10-40	15-30	NP-7
	32-36	Weathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
DgC:												
Dekalb----------	0-8	Very stony loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	---	10-30	50-90	45-80	40-75	20-55	15-32	NP-7
	8-29	Channery sandy loam, channery loam, very channery sandy loam	GM, ML, SM	A-1, A-2, A-4	---	5-40	50-85	40-80	40-75	20-55	15-32	NP-7
	29-34	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	---	10-50	45-85	35-75	25-65	15-40	15-32	NP-9
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
Gilpin----------	0-8	Very stony loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	10-40	50-90	45-85	35-75	30-70	20-40	4-15
	8-24	Shaly silt loam, channery loam, silty clay loam	CL, CL-ML, GC-GM, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	24-30	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---
DgD:												
Dekalb----------	0-8	Very stony loam	SM, CL-ML, GM, ML	A-1, A-2, A-4	---	10-30	50-90	45-80	40-75	20-55	15-32	NP-7
	8-29	Channery sandy loam, channery loam, very channery sandy loam	GM, ML, SM	A-1, A-2, A-4	---	5-40	50-85	40-80	40-75	20-55	15-32	NP-7
	29-34	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	---	10-50	45-85	35-75	25-65	15-40	15-32	NP-9
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
Gilpin----------	0-8	Very stony loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	10-40	50-90	45-85	35-75	30-70	20-40	4-15
	8-24	Shaly silt loam, channery loam, silty clay loam	CL, CL-ML, GC-GM, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	24-30	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---
DlC:												
Dekalb----------	0-8	Very stony sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	---	10-30	50-90	45-80	40-75	20-55	15-32	NP-7
	8-29	Channery sandy loam, channery loam, very channery sandy loam	GM, ML, SM	A-1, A-2, A-4	---	5-40	50-85	40-80	40-75	20-55	15-32	NP-7
	29-34	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-2, A-4, A-1	---	10-50	45-85	35-75	25-65	15-40	15-32	NP-9
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
Leetonia--------	0-7	Extremely stony loamy sand	GM, GW, SM, SW	A-1, A-2	---	50-85	45-85	35-70	20-55	2-20	0-14	NP
	7-20	Very channery sand, very channery loamy sand	GM, GW, SM, SW	A-1, A-2	---	15-50	45-85	35-70	20-55	2-20	0-14	NP
	20-45	Very channery sand	GM, GW, SM, SW	A-1	---	30-40	45-60	35-50	20-35	2-15	0-14	NP
	45-49	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
DlD:												
Dekalb----------	0-8	Very stony sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	---	10-30	50-90	45-80	40-75	20-55	15-32	NP-7
	8-29	Channery sandy loam, channery loam, very channery sandy loam	GM, ML, SM	A-1, A-2, A-4	---	5-40	50-85	40-80	40-75	20-55	15-32	NP-7
	29-34	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	---	10-50	45-85	35-75	25-65	15-40	15-32	NP-9
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
Leetonia--------	0-7	Extremely stony loamy sand	GM, GW, SM, SW	A-1, A-2	---	50-85	45-85	35-70	20-55	2-20	0-14	NP
	7-20	Very channery sand, very channery loamy sand	GM, GW, SM, SW	A-1, A-2	---	15-50	45-85	35-70	20-55	2-20	0-14	NP
	20-45	Very channery sand	GM, GW, SM, SW	A-1	---	30-40	45-60	35-50	20-35	2-15	0-14	NP
	45-49	Unweathered bedrock			---	---	---	---	---	---	---	---
Ek:												
Elkins----------	0-8	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	95-100	90-100	85-95	75-90	20-40	4-14
	8-36	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-95	75-90	20-40	4-17
	36-65	Silt loam, loam, fine sandy loam	CL, ML, SC, SM	A-4, A-6	0	0	95-100	90-100	65-95	40-85	15-35	1-13

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
ErA:												
Ernest----------	0-7	Silt loam	CL, CL-ML	A-4, A-6	0	0-10	85-100	80-100	70-95	60-95	20-40	4-15
	7-27	Silty clay loam, silt loam, channery silt loam	CL, CL-ML	A-4, A-6, A-7	---	0-15	75-95	70-95	65-90	55-90	25-50	6-22
	27-47	Channery silt loam, channery loam, silty clay loam	CL, GM, ML, SC	A-4, A-6, A-7	---	0-20	70-95	55-95	55-90	45-90	20-45	4-18
	47-60	Channery silt loam, silt loam, silty clay loam	CL, SC	A-4, A-6, A-7	---	0-20	70-95	45-95	45-90	40-90	25-50	6-22
ErB:												
Ernest----------	0-7	Silt loam	CL, CL-ML	A-4, A-6	0	0-10	85-100	80-100	70-95	60-95	20-40	4-15
	7-27	Silty clay loam, silt loam, channery silt loam	CL, CL-ML	A-4, A-6, A-7	---	0-15	75-95	70-95	65-90	55-90	25-50	6-22
	27-47	Channery silt loam, channery loam, silty clay loam	CL, GM, ML, SC	A-4, A-6, A-7	---	0-20	70-95	55-95	55-90	45-90	20-45	4-18
	47-60	Channery silt loam, silt loam, silty clay loam	CL, SC	A-4, A-6, A-7	---	0-20	70-95	45-95	45-90	40-90	25-50	6-22
ErC2:												
Ernest----------	0-7	Silt loam	CL, CL-ML	A-4, A-6	0	0-10	85-100	80-100	70-95	60-95	20-40	4-15
	7-27	Silty clay loam, silt loam, channery silt loam	CL, CL-ML	A-4, A-6, A-7	---	0-15	75-95	70-95	65-90	55-90	25-50	6-22
	27-47	Channery silt loam, channery loam, silty clay loam	CL, GM, ML, SC	A-4, A-6, A-7	---	0-20	70-95	55-95	55-90	45-90	20-45	4-18
	47-60	Channery silt loam, silt loam, silty clay loam	CL, SC	A-4, A-6, A-7	---	0-20	70-95	45-95	45-90	40-90	25-50	6-22

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
ErD2:												
Ernest----------	0-7	Silt loam	CL, CL-ML	A-4, A-6	0	0-10	85-100	80-100	70-95	60-95	20-40	4-15
	7-27	Silty clay loam, silt loam, channery silt loam	CL, CL-ML	A-4, A-6, A-7	---	0-15	75-95	70-95	65-90	55-90	25-50	6-22
	27-47	Channery silt loam, channery loam, silty clay loam	CL, GM, ML, SC	A-4, A-6, A-7	---	0-20	70-95	55-95	55-90	45-90	20-45	4-18
	47-60	Channery silt loam, silt loam, silty clay loam	CL, SC	A-4, A-6, A-7	---	0-20	70-95	45-95	45-90	40-90	25-50	6-22
GnB2:												
Gilpin----------	0-8	Channery silt loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-90	45-85	35-75	30-70	20-40	4-15
	8-24	Channery loam, shaly silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	24-30	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---
GnC2:												
Gilpin----------	0-8	Channery silt loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-90	45-85	35-75	30-70	20-40	4-15
	8-24	Channery loam, shaly silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	24-30	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
GnD2:												
Gilpin----------	0-8	Channery silt loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-90	45-85	35-75	30-70	20-40	4-15
	8-24	Channery loam, shaly silt loam, silty clay loam	CL-ML, GC, SC, CL	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	24-30	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---
GnD3:												
Gilpin----------	0-8	Channery silt loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-90	45-85	35-75	30-70	20-40	4-15
	8-24	Channery loam, shaly silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	24-30	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---
LaB:												
Laidig----------	0-5	Extremely stony loam	CL-ML, GC-GM, SC-SM, SM	A-4	---	15-30	65-90	50-80	45-80	35-70	15-30	NP-10
	5-36	Very channery loam, channery sandy clay loam, channery sandy loam	CL, ML, SC, SM	A-2, A-4, A-6	---	5-20	70-95	50-90	40-80	20-70	15-40	2-18
	36-72	Channery sandy clay loam, very channery loam, channery sandy loam	CL-ML, GC, GC-GM, SC	A-2, A-4, A-6	---	5-20	50-90	40-85	30-80	15-70	15-35	2-16

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
LaD:												
Laidig----------	0-5	Extremely stony loam	CL-ML, GC-GM, SC-SM, SM	A-4	---	15-30	65-90	50-80	45-80	35-70	15-30	NP-10
	5-36	Very channery loam, channery sandy clay loam, channery sandy loam	CL, ML, SC, SM	A-2, A-4, A-6	---	5-20	70-95	50-90	40-80	20-70	15-40	2-18
	36-72	Channery sandy clay loam, very channery loam, channery sandy loam	CL-ML, GC, GC-GM, SC	A-2, A-4, A-6	---	5-20	50-90	40-85	30-80	15-70	15-35	2-16
Lc:												
Lickdale--------	0-10	Silt loam	ML	A-4	---	---	90-100	85-100	70-95	65-90	---	---
	10-32	Silt loam, silty clay loam, sandy clay loam	ML	A-4, A-6, A-7	---	0-5	70-100	70-100	60-90	55-85	---	---
	32-46	Loam, gravelly sandy loam, sandy clay loam	ML, SM	A-2, A-4, A-6	---	0-10	65-95	55-90	50-85	20-85	---	---
	46-50	Weathered bedrock			---	---	---	---	---	---	---	---
Ls:												
Lickdale--------	0-10	Very stony loam	CL, ML	A-4	---	3-15	80-95	75-95	65-90	60-85	17-30	2-10
	10-32	Silt loam, clay loam, loam	CL, CL-ML	A-4, A-6	---	0-5	70-100	70-100	60-90	55-85	23-40	4-18
	32-46	Silt loam, loam, channery sandy loam	CL, SC	A-2, A-4, A-6	---	0-10	65-95	55-90	50-85	20-85	23-40	4-18
	46-50	Weathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
McB:												
Meckesville-----	0-7	Silt loam	ML	A-4	0	0-10	90-100	85-95	70-85	55-70	30-40	5-10
	7-31	Loam, channery silt loam, gravelly silty clay loam	CL, ML	A-4, A-6	---	0-20	60-100	60-95	60-90	55-70	25-40	2-15
	31-70	Loam, channery silt loam, gravelly clay loam	CL-ML, GM, ML, SC	A-2, A-4	---	0-20	45-95	40-90	35-85	30-65	20-30	2-10
	70-96	Loam, channery silt loam, gravelly clay loam	CL-ML, GM, ML, SC	A-2, A-4	---	0-50	45-90	30-85	30-85	25-60	20-30	2-10
McC2:												
Meckesville-----	0-7	Silt loam	ML	A-4	0	0-10	90-100	85-95	70-85	55-70	30-40	5-10
	7-31	Loam, channery silt loam, gravelly silty clay loam	CL, ML	A-4, A-6	---	0-20	60-100	60-95	60-90	55-70	25-40	2-15
	31-70	Loam, channery silt loam, gravelly clay loam	CL-ML, GM, ML, SC	A-2, A-4	---	0-20	45-95	40-90	35-85	30-65	20-30	2-10
	70-96	Loam, channery silt loam, gravelly clay loam	CL-ML, GM, ML, SC	A-2, A-4	---	0-50	45-90	30-85	30-85	25-60	20-30	2-10
MdB:												
Meckesville-----	0-7	Very stony silt loam	ML	A-4	---	3-15	80-100	70-95	65-85	55-80	0-14	---
	7-31	Loam, channery silt loam, gravelly silty clay loam	CL, ML	A-4, A-6	---	0-20	60-100	60-95	60-90	55-70	25-40	2-15
	31-70	Loam, channery silt loam, gravelly clay loam	CL, GM, ML, SC	A-2, A-4	---	0-20	45-95	40-90	35-85	30-65	20-30	2-10
	70-96	Loam, channery silt loam, gravelly clay loam	CL, GM, ML, SC	A-2, A-4	---	0-50	45-90	30-85	30-85	25-60	20-30	2-10

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
MdD:												
Mechesville-----	0-7	Very stony silt loam	ML	A-4	---	3-15	80-100	70-95	65-85	55-80	0-14	---
	7-31	Loam, channery silt loam, gravelly silty clay loam	CL, ML	A-6, A-4	---	0-20	60-100	60-95	60-90	55-70	25-40	2-15
	31-70	Loam, channery silt loam, gravelly clay loam	CL, GM, ML, SC	A-2, A-4	---	0-20	45-95	40-90	35-85	30-65	20-30	2-10
	70-96	Loam, channery silt loam, gravelly clay loam	CL, GM, ML, SC	A-2, A-4	---	0-50	45-90	30-85	30-85	25-60	20-30	2-10
NoB:												
Nolo----------	0-8	Silt loam	ML	A-4	0	0-5	90-100	90-100	80-100	55-90	0-14	---
	8-18	Silt loam, channery clay loam, channery sandy clay loam	CL-ML, ML	A-4, A-6	0	0-15	80-100	80-100	80-95	55-85	25-40	4-11
	18-46	Loam, channery sandy clay loam, channery clay loam	CL, CL-ML, GC, SC	A-4, A-6	---	0-15	60-100	60-90	55-85	35-70	25-35	4-11
	46-50	Weathered bedrock			---	---	---	---	---	---	---	---
Pe:												
Peat----------	0-60	Mucky peat	PT	A-8	---	---	---	---	---	---	---	---
Ph:												
Philo----------	0-6	Silt loam	CL-ML, ML	A-4	0	0-5	95-100	80-100	80-90	60-80	20-35	1-10
	6-42	Silt loam, loam, sandy loam	CL-ML, ML, SM	A-4	0	0-5	95-100	75-100	70-90	45-80	20-35	1-10
	42-60	Stratified sand to silt loam	CL-ML, GM, ML, SM	A-2, A-4	---	0-5	60-95	50-90	40-85	30-80	15-30	1-10

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
Ps:												
Pope----------	0-8	Silt loam	CL, CL-ML, ML, SM	A-4	0	0	85-100	75-100	70-100	45-90	15-30	NP-10
	8-42	Fine sandy loam, sandy loam, loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0	0	95-100	80-100	51-95	25-75	15-30	NP-7
	42-85	Sandy loam, loamy sand	GM, ML, SC-SM, SM	A-1, A-2, A-4	---	0-20	45-100	35-100	30-95	15-70	15-30	NP-7
PuC2:												
Purdy----------	0-9	Silt loam	ML	A-4, A-6, A-7	0	0	95-100	90-100	90-100	90-100	25-50	4-20
	9-42	Silty clay, clay, clay loam	CH, CL, MH	A-6, A-7	0	0	95-100	90-100	85-100	75-85	30-65	11-30
	42-60	Silty clay, clay loam, clay	CH, CL, MH	A-6, A-7	0	0	95-100	90-100	85-100	70-95	30-65	11-30
St:												
Strip Mines And Dump----------	0-6	Very channery silt loam	CL, GC, GM, SC-SM	A-1, A-2, A-4	---	0-20	40-80	30-70	20-65	15-60	15-25	NP-10
	6-60	Very shaly silt loam, very channery sandy loam, shaly loam	GC, GM, GW-GM, SC-SM	A-1, A-2	---	0-45	25-80	20-50	10-30	5-30	15-40	NP-15
SW:												
Swamp----------	0-6	Silt loam	CL-ML, ML, SC-SM, SM	A-4	---	0-5	75-100	60-100	55-90	45-80	15-25	NP-6
	6-42	Sandy loam, silt loam, gravelly loam	CL-ML, ML, SC-SM, SM	A-4	---	0-10	75-100	60-100	50-90	35-80	10-25	NP-6
	42-60	Silt loam, loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	0	0	95-100	95-100	80-100	50-95	15-40	2-25

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
UcB:												
Ungers----------	0-8	Channery loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	55-85	40-70	25-55	0-14	---
	8-40	Loam, channery clay loam, very channery sandy clay loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	40-90	30-70	25-55	25-35	1-10
	40-54	Channery loam, very channery sandy loam	GC, GC-GM, GM, SM	A-1, A-2	---	0-15	55-85	25-50	20-40	15-30	20-35	NP-11
	54-58	Unweathered bedrock			---	---	---	---	---	---	---	---
Calvin----------	0-8	Channery loam	ML	A-4	0	0-15	70-95	70-90	65-90	55-75	0-14	---
	8-27	Channery silt loam, channery loam, very channery clay loam	SM, GM, ML	A-2, A-4, A-6	0	0-15	70-95	55-90	40-90	30-75	22-38	NP-11
	27-34	Channery silt loam, very channery silt loam, very channery loam	GC, GM, SC, SM	A-1, A-2, A-4, A-6	0	0-20	35-75	30-65	15-60	15-40	23-39	3-13
	34-38	Unweathered bedrock			---	---	---	---	---	---	0-14	---
Lehew----------	0-6	Channery loam	CL-ML, GM, ML, SM	A-2, A-4	0	5-30	50-80	45-70	40-65	25-60	15-30	NP-7
	6-20	Very channery sandy loam, channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	5-40	45-75	30-65	20-55	10-40	15-30	NP-7
	20-32	Very channery sandy loam, very channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	10-50	45-75	30-65	20-55	10-40	15-30	NP-7
	32-36	Weathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
UnB:												
Gilpin----------	0-8	Channery loam	ML	A-4	0	0-15	70-95	70-90	65-90	55-75	0-14	---
	8-27	Channery silt loam, channery loam, very channery clay loam	GM, ML, SM	A-2, A-4, A-6	0	0-15	70-95	55-90	40-90	30-75	22-38	NP-11
	27-34	Channery silt loam, very channery silt loam, very channery loam	GC, GM, SC, SM	A-1, A-2, A-4, A-6	0	0-20	35-75	30-65	15-60	15-40	23-39	3-13
	34-38	Unweathered bedrock			---	---	---	---	---	---	0-14	---
Ungers----------	0-8	Channery loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	55-85	40-70	25-55	0-14	---
	8-40	Loam, channery clay loam, very channery sandy clay loam	GM, ML, SM	A-2, A-4	0	0-10	60-95	40-90	30-70	25-55	25-35	1-10
	40-54	Channery loam, very channery sandy loam	GC, GC-GM, GM, SM	A-1, A-2	---	0-15	55-85	25-50	20-40	15-30	20-35	NP-11
	54-58	Unweathered bedrock			---	---	---	---	---	---	---	---
Calvin----------	0-6	Channery loam	CL-ML, GM, ML, SM	A-2, A-4	0	5-30	50-80	45-70	40-65	25-60	15-30	NP-7
	6-20	Very channery sandy loam, channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	5-40	45-75	30-65	20-55	10-40	15-30	NP-7
	20-32	Very channery sandy loam, very channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	10-50	45-75	30-65	20-55	10-40	15-30	NP-7
	32-36	Weathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
VsD:												
Very Stony Land-	0-6	Extremely stony loam	CL, CL-ML, GM, ML	A-2, A-4	---	5-20	50-85	45-70	40-70	30-60	20-35	2-11
	6-27	Gravelly loam, silt loam, gravelly sandy clay loam	CL, GM, ML, SM	A-2, A-4	---	0-20	50-100	45-90	40-90	20-80	20-35	2-15
	27-60	Gravelly loam, loam, channery clay loam	CL, GM, ML, SM	A-2, A-4, A-6	---	0-20	50-100	30-80	30-75	20-60	20-35	2-15
VsF:												
Very Stony Land-	0-5	Extremely stony loam	CL-ML, GC-GM, SC-SM, SM	A-4	---	15-30	65-90	50-80	45-80	35-70	15-30	NP-10
	5-36	Very channery loam, channery sandy clay loam, channery sandy loam	SM, CL, ML, SC	A-2, A-4, A-6	---	5-20	70-95	50-90	40-80	20-70	15-40	2-18
	36-72	Channery sandy clay loam, very channery loam, channery sandy loam	CL-ML, GC, GC-GM, SC	A-2, A-4, A-6	---	5-20	50-90	40-85	30-80	15-70	15-35	2-16
WhB2:												
Wharton---------	0-9	Silt loam	ML	A-4, A-6	---	0-5	95-100	90-100	80-95	70-90	0-14	---
	9-46	Clay loam, shaly silty clay loam, shaly silt loam	CL, ML	A-6, A-7	---	0-25	75-100	70-100	65-95	60-90	35-45	10-25
	46-69	Silt loam, shaly clay, very shaly silt loam	GM, ML, SM	A-2, A-4, A-6, A-7	---	0-50	45-100	30-100	25-95	25-90	30-45	5-15
	69-73	Weathered bedrock			---	---	---	---	---	---	---	---

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	
WhC2:												
Wharton---------	0-9	Silt loam	ML	A-4, A-6	---	0-5	95-100	90-100	80-95	70-90	0-14	---
	9-46	Clay loam, shaly silty clay loam, shaly silt loam	CL, ML	A-6, A-7	---	0-25	75-100	70-100	65-95	60-90	35-45	10-25
	46-69	Silt loam, shaly clay, very shaly silt loam	GM, ML, SM	A-2, A-4, A-6, A-7	---	0-50	45-100	30-100	25-95	25-90	30-45	5-15
	69-73	Weathered bedrock			---	---	---	---	---	---	---	---