Table H.--Engineering Index Properties

(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	Plasticity index
	In				Pct	Pct					Pct	
ArA:												
Abbottstown-----	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0-5	90-100	80-100	75-100	55-90	20-35	5-15
	10-20	Silt loam, loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0-5	90-100	80-100	75-95	55-85	20-35	5-15
	20-39	Channery silt loam, loam, silty clay loam	CL, CL-ML, SC	A-4, A-6	---	0-10	75-100	65-90	60-90	40-85	20-35	5-15
	39-48	Channery silt loam, loam, silty clay loam	CL, CL-ML, SC	A-4, A-6	0	0-20	75-100	45-90	40-90	40-85	20-35	5-15
	48-52	Unweathered bedrock			---	---	---	---	---	---	---	---
Readington------	0-8	Silt loam	ML	A-4	0	0-5	90-100	80-100	80-100	65-100	0-14	NP
	8-29	Loam, channery silt loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	0	0-10	80-100	70-100	65-100	55-95	25-39	5-12
	29-50	Silt loam, channery loam, channery silt loam	CL, GM, ML, SM	A-2, A-4, A-6	0	0-10	60-95	40-90	30-85	25-55	20-35	NP-12
	50-54	Weathered bedrock			---	---	---	---	---	---	---	---
ArB2:												
Abbottstown-----	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0-5	90-100	80-100	75-100	55-90	20-35	5-15
	10-20	Silt loam, loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0-5	90-100	80-100	75-95	55-85	20-35	5-15
	20-39	Channery silt loam, loam, silty clay loam	CL, CL-ML, SC	A-4, A-6	---	0-10	75-100	65-90	60-90	40-85	20-35	5-15
	39-48	Channery silt loam, loam, silty clay loam	CL, CL-ML, SC	A-4, A-6	0	0-20	75-100	45-90	40-90	40-85	20-35	5-15
	48-52	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	
Readington------	0-8	Silt loam	ML	A-4	0	0-5	90-100	80-100	80-100	65-100	0-14	NP
	8-29	Loam, channery silt loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	0	0-10	80-100	70-100	65-100	55-95	25-39	5-12
	29-50	Silt loam, channery loam, channery silt loam	CL, GM, ML, SM	A-4, A-6, A-2	0	0-10	60-95	40-90	30-85	25-55	20-35	NP-12
	50-54	Weathered bedrock			---	---	---	---	---	---	---	---
BaA:												
Baile----------	0-9	Silt loam	ML, MH	A-4, A-6, A-7	---	0-10	85-100	80-100	70-100	50-95	33-67	7-24
	9-32	Silty clay loam, silt loam, clay loam	CL	A-6	0	0	90-100	80-100	70-100	55-95	28-34	11-14
	32-60	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
BaB:												
Baile----------	0-9	Silt loam	MH, ML	A-4, A-6, A-7	---	0-10	85-100	80-100	70-100	50-95	33-67	7-24
	9-32	Silty clay loam, silt loam, clay loam	CL	A-6	0	0	90-100	80-100	70-100	55-95	28-34	11-14
	32-60	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
Be:												
Bermudian-------	0-8	Silt loam	ML	A-4	0	0	90-100	90-100	70-90	60-80	0-14	---
	8-50	Silt loam, gravelly silty clay loam, channery sandy clay loam	ML, SC, SM	A-4, A-6, A-7-6	---	0-10	65-90	60-80	55-75	40-60	30-45	8-15
	50-65	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: 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	
BrA:												
Birdsboro-------	0-10	Silt loam	CL, CL-ML, ML	A-4	0	0	95-100	85-100	80-100	65-90	20-35	2-10
	10-46	Silt loam, sandy clay loam, gravelly clay loam	CL, GM, ML, SM	A-4, A-6	0	0-5	70-100	65-100	60-100	45-95	25-35	3-11
	46-70	Loam, very 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
BrB2:												
Birdsboro-------	0-10	Silt loam	CL, CL-ML, ML	A-4	0	0	95-100	85-100	80-100	65-90	20-35	2-10
	10-46	Silt loam, sandy clay loam, gravelly clay loam	CL, GM, ML, SM	A-4, A-6	0	0-5	70-100	65-100	60-100	45-95	25-35	3-11
	46-70	Loam, very 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
Bs:												
Bowmansville----	0-7	Silt loam	ML, SM	A-4	0	0-5	95-100	80-100	60-100	35-90	0-14	NP
	7-26	Silt loam, silty clay loam, sandy clay loam	CL, ML, SC, SM	A-4, A-6, A-7	0	0-5	95-100	80-100	80-100	40-90	30-45	8-15
	26-52	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
	52-66	Stratified gravel to sand	CL-ML, GM, ML, SM	A-1, A-2, A-4	0-1	0-20	40-100	20-100	15-75	10-55	15-20	NP-5
BuA:												
Bucks----------	0-15	Silt loam	CL, CL-ML, ML	A-4	0	0	95-100	95-100	85-95	65-90	20-35	3-10
	15-35	Silt loam, silty clay loam, channery loam	CL, ML	A-4, A-6	0	0-3	75-100	60-80	55-75	50-70	30-40	5-15
	35-44	Channery silt loam, silt loam, silty clay loam	CL, ML, SC, SM	A-4, A-6	0	5-15	65-90	55-85	50-80	45-75	20-40	3-15
	44-48	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	
BuB2:												
Bucks----------	0-15	Silt loam	CL, CL-ML, ML	A-4	0	0	95-100	95-100	85-95	65-90	20-35	3-10
	15-35	Silt loam, silty clay loam, channery loam	CL, ML	A-4, A-6	0	0-3	75-100	60-80	55-75	50-70	30-40	5-15
	35-44	Channery silt loam, silt loam, silty clay loam	CL, ML, SC, SM	A-4, A-6	0	5-15	65-90	55-85	50-80	45-75	20-40	3-15
	44-48	Unweathered bedrock			---	---	---	---	---	---	---	---
CaC2:												
Cardiff---------	0-10	Slaty silt loam	ML	A-4	---	10-20	70-85	60-80	55-70	50-65	0-14	NP-8
	10-30	Slaty silt loam, slaty loam, very slaty loam	GM	A-2, A-6	---	30-50	60-70	35-60	30-55	25-50	34-40	10-12
	30-45	Very slaty silt	GM	A-1, A-2, A-4	---	60-80	15-50	10-40	10-40	10-40	0-14	NP
	45-49	Unweathered bedrock			---	---	---	---	---	---	---	---
CeA:												
Chester---------	0-8	Silt loam	CL	A-4	0	0-10	85-100	80-100	70-100	50-90	22-27	5-10
	8-42	Silty clay loam, silt loam, clay loam	CL, ML	A-4, A-6, A-7	0	0-10	85-100	80-100	70-100	55-95	30-50	8-17
	42-62	Silt loam, loam, sandy loam	ML, SC, SM	A-2, A-4, A-7	0	0-10	80-100	80-100	60-100	30-90	15-47	4-12
CeB2:												
Chester---------	0-8	Silt loam	CL	A-4	0	0-10	85-100	80-100	70-100	50-90	22-27	5-10
	8-42	Silty clay loam, silt loam, clay loam	CL, ML	A-4, A-6, A-7	0	0-10	85-100	80-100	70-100	55-95	30-50	8-17
	42-62	Silt loam, loam, sandy loam	ML, SC, SM	A-2, A-4, A-7	0	0-10	80-100	80-100	60-100	30-90	15-47	4-12

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	
CeC2:												
Chester---------	0-8	Silt loam	CL	A-4	0	0-10	85-100	80-100	70-100	50-90	22-27	5-10
	8-42	Silty clay loam, silt loam, clay loam	CL, ML	A-4, A-6, A-7	0	0-10	85-100	80-100	70-100	55-95	30-50	8-17
	42-62	Silt loam, loam, sandy loam	ML, SC, SM	A-2, A-4, A-7	0	0-10	80-100	80-100	60-100	30-90	15-47	4-12
CeC3:												
Chester---------	0-8	Silt loam	CL, CL-ML	A-4	0	0-10	85-100	80-100	70-100	50-90	22-27	5-10
	8-42	Silty clay loam, silt loam, clay loam	CL, ML	A-4, A-6, A-7	0	0-10	85-100	80-100	70-100	55-95	30-50	8-17
	42-62	Silt loam, loam, sandy loam	ML, SM	A-7, A-2, A-4	0	0-10	80-100	80-100	60-100	30-90	15-47	4-12
Ch:												
Codorus---------	0-18	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	80-100	70-100	65-100	55-95	22-35	2-12
	18-54	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
	54-60	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
Cm:												
Comus----------	0-30	Silt loam	CL, ML, SC, SM	A-2, A-4, A-6	---	0-5	85-100	80-100	55-100	30-90	30-40	6-15
	30-60	Stratified gravelly sandy loam to silty clay loam	CL, GM, ML, SM	A-1, A-2, A-4, A-6	---	0-20	55-100	45-100	25-100	15-95	15-40	NP-20
CnA:												
Comus----------	0-30	Silt loam	CL, ML, SC, SM	A-2, A-4, A-6	---	0-5	85-100	80-100	55-100	30-90	30-40	6-15
	30-60	Stratified gravelly sandy loam to silty clay loam	CL, GM, ML, SM	A-1, A-2, A-4, A-6	---	0-20	55-100	45-100	25-100	15-95	15-40	NP-20

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	
CnB:												
Comus----------	0-30	Silt loam	CL, ML, SC, SM	A-2, A-4, A-6	---	0-5	85-100	80-100	55-100	30-90	30-40	6-15
	30-60	Stratified gravelly sandy loam to silty clay loam	CL, GM, ML, SM	A-1, A-2, A-4, A-6	---	0-20	55-100	45-100	25-100	15-95	15-40	NP-20
CoA:												
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
CoB2:												
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
CoC2:												
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

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	
CoC3:												
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	SM, GM, MH, ML	A-2, A-6, A-7	---	0-15	35-90	35-85	30-80	25-75	35-60	10-25
CoD3:												
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
DeA:												
Delanco---------	0-13	Silt loam	CL, ML, SC, SM	A-4, A-6	0	0	90-100	80-100	55-100	30-90	15-30	NP-15
	13-39	Silty clay loam, clay loam, loam	ML	A-6, A-7	0	0	90-100	80-100	70-100	50-95	35-50	10-20
	39-72	Clay loam, silt loam, gravelly sandy loam	CL, ML, SC, SM	A-2, A-4, A-6	0	0	65-100	50-100	30-100	15-90	15-35	NP-15
DeB2:												
Delanco---------	0-13	Silt loam	CL, ML, SC, SM	A-4, A-6	0	0	90-100	80-100	55-100	30-90	15-30	NP-15
	13-39	Silty clay loam, clay loam, loam	ML	A-6, A-7	0	0	90-100	80-100	70-100	50-95	35-50	10-20
	39-72	Clay loam, silt loam, gravelly sandy loam	CL, ML, SC, SM	A-2, A-4, A-6	0	0	65-100	50-100	30-100	15-90	15-35	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	
ElB2:												
Elioak----------	0-15	Silt loam	CL, ML, SC, SM	A-2-4, A-4, A-6, A-7	---	0-10	85-100	80-100	55-100	30-90	30-45	5-20
	15-42	Silty clay loam, clay loam, silty clay	CH, CL, MH, ML	A-6, A-7	---	0-5	85-100	80-100	75-100	60-95	35-58	11-26
	42-65	Silt loam, loam, gravelly fine sandy loam	GM, ML, SM	A-1-b, A-2, A-4, A-5	---	0-5	65-100	50-100	35-100	20-90	35-50	NP-10
ElC2:												
Elioak----------	0-15	Silt loam	CL, ML, SC, SM	A-4, A-6, A-7, A-2-4	---	0-10	85-100	80-100	55-100	30-90	30-45	5-20
	15-42	Silty clay loam, clay loam, silty clay	CH, CL, MH, ML	A-6, A-7	---	0-5	85-100	80-100	75-100	60-95	35-58	11-26
	42-65	Silt loam, loam, gravelly fine sandy loam	GM, ML, SM	A-1-b, A-2, A-4, A-5	---	0-5	65-100	50-100	35-100	20-90	35-50	NP-10
EmD3:												
Elioak----------	0-15	Silty clay loam	CL	A-6, A-7	---	0-10	85-100	80-100	75-100	60-90	35-50	12-25
	15-42	Silty clay loam, clay loam, silty clay	CH, CL, MH, ML	A-6, A-7	---	0-5	85-100	80-100	75-100	60-95	35-58	11-26
	42-65	Silt loam, loam, gravelly fine sandy loam	GM, ML, SM	A-1-b, A-2, A-4, A-5	---	0-5	65-100	50-100	35-100	20-90	35-50	NP-10
EnB2:												
Elsinboro-------	0-15	Loam	CL, SC	A-2, A-4	---	0-5	85-100	80-100	50-100	25-90	21-28	4-9
	15-36	Silty clay loam, silt loam, loam	CL	A-6	---	0-5	85-100	80-100	70-100	50-95	28-40	11-20
	36-60	Sandy loam, sandy clay loam, gravelly sandy loam	CL, ML, SC, SM	A-2, A-4, A-6, A-7	---	0-10	65-100	50-100	30-90	15-55	10-45	2-20

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	
EnC2:												
Elsinboro-------	0-15	Loam	CL, SC	A-2, A-4	---	0-5	85-100	80-100	50-100	25-90	21-28	4-9
	15-36	Silty clay loam, silt loam, loam	CL	A-6	---	0-5	85-100	80-100	70-100	50-95	28-40	11-20
	36-60	Sandy loam, sandy clay loam, gravelly sandy loam	CL, ML, SC, SM	A-2, A-4, A-6, A-7	---	0-10	65-100	50-100	30-90	15-55	10-45	2-20
EsA:												
Elsinboro-------	0-15	Silt loam	CL, SC	A-2, A-4	---	0-5	85-100	80-100	50-100	25-90	21-28	4-9
	15-36	Silty clay loam, silt loam, loam	CL	A-6	---	0-5	85-100	80-100	70-100	50-95	28-40	11-20
	36-60	Sandy loam, sandy clay loam, gravelly sandy loam	CL, ML, SC, SM	A-2, A-4, A-6, A-7	---	0-10	65-100	50-100	30-90	15-55	10-45	2-20
EsB2:												
Elsinboro-------	0-15	Silt loam	CL, SC	A-2, A-4	---	0-5	85-100	80-100	50-100	25-90	21-28	4-9
	15-36	Silty clay loam, silt loam, loam	CL	A-6	---	0-5	85-100	80-100	70-100	50-95	28-40	11-20
	36-60	Sandy loam, sandy clay loam, gravelly sandy loam	CL, ML, SC, SM	A-2, A-4, A-6, A-7	---	0-10	65-100	50-100	30-90	15-55	10-45	2-20
EsC2:												
Elsinboro-------	0-15	Silt loam	CL, SC	A-2, A-4	---	0-5	85-100	80-100	50-100	25-90	21-28	4-9
	15-36	Silty clay loam, silt loam, loam	CL	A-6	---	0-5	85-100	80-100	70-100	50-95	28-40	11-20
	36-60	Sandy loam, sandy clay loam, gravelly sandy loam	ML, SC, SM, CL	A-2, A-4, A-6, A-7	---	0-10	65-100	50-100	30-90	15-55	10-45	2-20

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	
GcB2:												
Glenelg---------	0-6	Channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	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
GcC2:												
Glenelg---------	0-6	Channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	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
GcC3:												
Glenelg---------	0-6	Channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	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
GcD2:												
Glenelg---------	0-6	Channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	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

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	
GcD3:												
Glenelg---------	0-6	Channery loam	GM, ML, SM	A-6, A-2-4, A-2-6, A-4	---	0-10	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
GlA:												
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	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
GlB2:												
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	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
GlB3:												
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	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

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	
GlC2:												
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	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
GlC3:												
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	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
GvA:												
Glenville-------	0-9	Silt loam	ML, SM	A-4	0	0	85-100	85-100	70-95	45-80	25-35	3-10
	9-18	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
	18-40	Silt loam, channery loam, silty clay loam	GM, SC, CL, CL-ML	A-4, A-6	0	0-10	65-100	60-100	55-95	45-80	25-40	5-13
	40-62	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: 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	
GvB:												
Glenville-------	0-9	Silt loam	ML, SM	A-4	0	0	85-100	85-100	70-95	45-80	25-35	3-10
	9-18	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
	18-40	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
	40-62	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
HaA:												
Hagerstown------	0-8	Silt loam	CL, CL-ML	A-4, A-6, A-7	---	0-15	85-100	80-100	80-100	70-95	25-50	5-25
	8-20	Clay, clay loam, loam	CH, CL	A-7	0	0-5	90-100	80-100	75-100	55-95	48-65	26-34
	20-72	Clay, silty clay, silty clay loam	CH, CL	A-6, A-7	---	0-5	85-100	80-100	75-100	75-95	30-70	15-40
HaB2:												
Hagerstown------	0-8	Silt loam	CL, CL-ML	A-4, A-6, A-7	---	0-15	85-100	80-100	80-100	70-95	25-50	5-25
	8-20	Clay, clay loam, loam	CH, CL	A-7	0	0-5	90-100	80-100	75-100	55-95	48-65	26-34
	20-72	Clay, silty clay, silty clay loam	CH, CL	A-6, A-7	---	0-5	85-100	80-100	75-100	75-95	30-70	15-40
HaC2:												
Hagerstown------	0-8	Silt loam	CL, CL-ML	A-4, A-6, A-7	---	0-15	85-100	80-100	80-100	70-95	25-50	5-25
	8-20	Clay, clay loam, loam	CH, CL	A-7	0	0-5	90-100	80-100	75-100	55-95	48-65	26-34
	20-72	Clay, silty clay, silty clay loam	CH, CL	A-6, A-7	---	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: 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	
Ht:												
Hatboro---------	0-9	Silt loam	CL, ML, SC, SM	A-4, A-6	0	0	95-100	90-100	70-100	40-90	22-35	2-12
	9-44	Silt loam, silty clay loam, sandy clay loam	CL, CL-ML, ML	A-4, A-6	0	0	85-100	80-100	70-95	55-85	22-35	2-12
	44-56	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
	56-70	Stratified clay to gravelly sand	GC, GM, SC, SM	A-1, A-2	0	0	50-85	45-80	45-80	15-35	15-32	NP-14
KlB2:												
Klinesville-----	0-5	Channery loam	GM, SM	A-2, A-4	0	0-10	55-85	45-60	35-50	25-40	0-14	NP
	5-15	Channery silt loam, very 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
	15-19	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
	19-23	Weathered bedrock			---	---	---	---	---	---	0-14	---
KsD4:												
Klinesville-----	0-5	Channery loam	GM, SM	A-2, A-4	0	0-10	55-85	45-60	35-50	25-40	0-14	NP
	5-15	Channery silt loam, very 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
	15-19	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
	19-23	Weathered bedrock			---	---	---	---	---	---	0-14	---

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	
KsF3:												
Klinesville-----	0-5	Channery loam	GM, SM	A-2, A-4	0	0-10	55-85	45-60	35-50	25-40	0-14	NP
	5-15	Channery silt loam, very channery silt loam	SM, SP, GM, GP	A-1, A-2, A-4	0	0-10	25-75	15-55	10-50	4-40	20-35	NP-9
	15-19	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
	19-23	Weathered bedrock			---	---	---	---	---	---	0-14	---
LbB2:												
Lewisberry------	0-12	Gravelly sandy loam	GM, SM	A-2, A-4	0	0-10	70-90	65-85	50-80	25-45	0-14	---
	12-46	Sandy loam, gravelly sandy loam, very gravelly sandy loam	GC, GM, SC, SM	A-2, A-4, A-6	0	0-10	55-100	50-100	40-90	25-50	17-31	1-11
	46-62	Gravelly sandy loam, very gravelly sandy loam, extremely gravelly sandy loam	GC, GC-GM, GM	A-1, A-2	0	0-20	30-50	20-45	15-30	5-15	15-30	NP-10
	62-66	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	
LbC2:												
Lewisberry------	0-12	Gravelly sandy loam	GM, SM	A-2, A-4	0	0-10	70-90	65-85	50-80	25-45	0-14	---
	12-46	Sandy loam, gravelly sandy loam, very gravelly sandy loam	GC, GM, SC, SM	A-2, A-4, A-6	0	0-10	55-100	50-100	40-90	25-50	17-31	1-11
	46-62	Gravelly sandy loam, very gravelly sandy loam, extremely gravelly sandy loam	GC, GC-GM, GM	A-1, A-2	0	0-20	30-50	20-45	15-30	5-15	15-30	NP-10
	62-66	Unweathered bedrock			---	---	---	---	---	---	---	---
LbD:												
Lewisberry------	0-12	Gravelly sandy loam	GM, SM	A-2, A-4	0	0-10	70-90	65-85	50-80	25-45	0-14	---
	12-46	Sandy loam, gravelly sandy loam, very gravelly sandy loam	GC, GM, SC, SM	A-2, A-4, A-6	0	0-10	55-100	50-100	40-90	25-50	17-31	1-11
	46-62	Gravelly sandy loam, very gravelly sandy loam, extremely gravelly sandy loam	GC, GC-GM, GM	A-1, A-2	0	0-20	30-50	20-45	15-30	5-15	15-30	NP-10
	62-66	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	
Le:												
Lindside--------	0-8	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	100	95-100	80-100	55-90	20-35	2-15
	8-44	Silty clay loam, silt loam, very fine sandy loam	CL, CL-ML	A-4, A-6	0	0	100	95-100	90-100	70-95	25-40	4-18
	44-60	Stratified silty clay loam to gravelly sandy loam	CL, SC	A-2, A-4, A-6	0	0	60-100	55-100	45-100	30-95	20-40	4-18
LnB2:												
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			---	---	---	---	---	---	---	---

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	Plas-ticity index
	In				Pct	Pct					Pct	
LnC2:												
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			---	---	---	---	---	---	---	---
LnC3:												
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			---	---	---	---	---	---	---	---

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	
LnD2:												
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			---	---	---	---	---	---	---	---
LnE:												
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			---	---	---	---	---	---	---	---
Md:												
Made Land-------	0-6	Variable			---	---	---	---	---	---	0-14	---

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	
MgB2:												
Manor----------	0-10	Gravelly loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-75	40-75	30-70	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-100	40-100	30-90	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	65-100	50-100	30-95	15-75	20-40	2-12
MgC2:												
Manor----------	0-10	Gravelly loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-75	40-75	30-70	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-100	40-100	30-90	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	65-100	50-100	30-95	15-75	20-40	2-12
MgC3:												
Manor----------	0-10	Gravelly loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-75	40-75	30-70	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-100	40-100	30-90	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	65-100	50-100	30-95	15-75	20-40	2-12
MgD2:												
Manor----------	0-10	Gravelly loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-75	40-75	30-70	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-100	40-100	30-90	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	65-100	50-100	30-95	15-75	20-40	2-12

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	
MgD3:												
Manor----------	0-10	Gravelly loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-75	40-75	30-70	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-100	40-100	30-90	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	65-100	50-100	30-95	15-75	20-40	2-12
MlB2:												
Manor----------	0-10	Loam	ML	A-4, A-6	0	0	85-100	80-100	70-100	50-90	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-100	40-100	30-90	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	65-100	50-100	30-95	15-75	20-40	2-12
MlB3:												
Manor----------	0-10	Loam	ML	A-4, A-6	0	0	85-100	80-100	70-100	50-90	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-100	40-100	30-90	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	65-100	50-100	30-95	15-75	20-40	2-12
MlC2:												
Manor----------	0-10	Loam	ML	A-4, A-6	0	0	85-100	80-100	70-100	50-90	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-100	40-100	30-90	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	65-100	50-100	30-95	15-75	20-40	2-12
MlC3:												
Manor----------	0-10	Loam	ML	A-4, A-6	0	0	85-100	80-100	70-100	50-90	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-100	40-100	30-90	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	65-100	50-100	30-95	15-75	20-40	2-12

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	
MlD2:												
Manor----------	0-10	Loam	ML	A-4, A-6	0	0	85-100	80-100	70-100	50-90	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-2-6, A-4, A-6, A-2-4	---	0-10	65-100	50-100	40-100	30-90	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	65-100	50-100	30-95	15-75	20-40	2-12
MlD3:												
Manor----------	0-10	Loam	ML	A-4, A-6	0	0	85-100	80-100	70-100	50-90	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-100	40-100	30-90	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	65-100	50-100	30-95	15-75	20-40	2-12
MlE:												
Manor----------	0-10	Loam	ML	A-4, A-6	0	0	85-100	80-100	70-100	50-90	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-2-4, A-2-6, A-4, A-6	---	0-10	65-100	50-100	40-100	30-90	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	65-100	50-100	30-95	15-75	20-40	2-12
MnC:												
Manor----------	0-10	Very stony loam	GM, ML, SM	A-4, A-6	---	3-15	70-100	60-100	50-95	35-90	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-4, A-6	---	0-10	70-95	60-95	50-95	35-85	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	SC-SM, SM, CL-ML, ML	A-1, A-2, A-4, A-6	---	0-5	70-100	60-100	35-95	20-75	20-40	2-12
MnD:												
Manor----------	0-10	Very stony loam	GM, ML, SM	A-4, A-6	---	3-15	70-100	60-100	50-95	35-90	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-4, A-6	---	0-10	70-95	60-95	50-95	35-85	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	70-100	60-100	35-95	20-75	20-40	2-12

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	Plas-ticity index
	In				Pct	Pct					Pct	
MnE:												
Manor----------	0-10	Very stony loam	GM, ML, SM	A-4, A-6	---	3-15	70-100	60-100	50-95	35-90	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-4, A-6	---	0-10	70-95	60-95	50-95	35-85	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	70-100	60-100	35-95	20-75	20-40	2-12
MnF:												
Manor----------	0-10	Very stony loam	GM, ML, SM	A-4, A-6	---	3-15	70-100	60-100	50-95	35-90	32-40	6-12
	10-20	Loam, silt loam, channery loam	GM, ML, SM	A-4, A-6	---	0-10	70-95	60-95	50-95	35-85	26-40	4-12
	20-72	Loam, sandy loam, channery sandy loam	CL-ML, ML, SC-SM, SM	A-1, A-2, A-4, A-6	---	0-5	70-100	60-100	35-95	20-75	20-40	2-12
Mo:												
Melvin----------	0-9	Silt loam	CL-ML, ML	A-4	0	0	95-100	90-100	80-100	80-95	25-35	4-10
	9-30	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	80-100	80-98	25-40	5-20
	30-62	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0	85-100	80-100	70-100	60-98	25-40	5-20
MtA:												
Mt.airy---------	0-6	Channery loam	GM, ML	A-2, A-4, A-6	---	0-10	40-60	40-60	25-60	20-55	32-40	6-12
	6-33	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
	33-37	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	Plas-ticity index
	In				Pct	Pct					Pct	
MtB2:												
Mt.airy---------	0-6	Channery loam	GM, ML	A-2, A-4, A-6	---	0-10	40-60	40-60	25-60	20-55	32-40	6-12
	6-33	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
	33-37	Weathered bedrock			---	---	---	---	---	---	---	---
MtC2:												
Mt.airy---------	0-6	Channery loam	GM, ML	A-2, A-4, A-6	---	0-10	40-60	40-60	25-60	20-55	32-40	6-12
	6-33	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
	33-37	Weathered bedrock			---	---	---	---	---	---	---	---
MtC3:												
Mt.airy---------	0-6	Channery loam	GM, ML	A-2, A-4, A-6	---	0-10	40-60	40-60	25-60	20-55	32-40	6-12
	6-33	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
	33-37	Weathered bedrock			---	---	---	---	---	---	---	---
MtD2:												
Mt.airy---------	0-6	Channery loam	GM, ML	A-2, A-4, A-6	---	0-10	40-60	40-60	25-60	20-55	32-40	6-12
	6-33	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
	33-37	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	
MtE:												
Mt.airy---------	0-6	Channery loam	GM, ML	A-6, A-2, A-4	---	0-10	40-60	40-60	25-60	20-55	32-40	6-12
	6-33	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
	33-37	Weathered bedrock			---	---	---	---	---	---	---	---
PeB2:												
Penn----------	0-8	Loam	ML	A-4	0	0-5	95-100	80-100	80-95	60-85	0-14	---
	8-21	Channery silt loam, channery loam, channery silty clay loam	GM, ML, SM	A-2, A-4	0	0-10	55-100	50-100	45-95	30-75	20-37	1-10
	21-34	Very channery silt loam, very channery loam	CL, GM, ML, SM	A-1, A-2, A-4	0	0-15	35-100	20-100	15-95	15-70	20-35	3-10
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
PhB2:												
Penn----------	0-8	Channery silt loam	GM, ML	A-4	0	0-10	60-90	50-80	45-75	40-65	0-14	---
	8-21	Channery silt loam, channery loam, channery silty clay loam	GM, ML, SM	A-2, A-4	0	0-10	55-100	50-100	45-95	30-75	20-37	1-10
	21-34	Very channery silt loam, very channery loam	CL, GM, ML, SM	A-1, A-2, A-4	0	0-15	35-100	20-100	15-95	15-70	20-35	3-10
	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	
PhC2:												
Penn----------	0-8	Channery silt loam	GM, ML	A-4	0	0-10	60-90	50-80	45-75	40-65	0-14	---
	8-21	Channery silt loam, channery loam, channery silty clay loam	GM, ML, SM	A-2, A-4	0	0-10	55-100	50-100	45-95	30-75	20-37	1-10
	21-34	Very channery silt loam, very channery loam	CL, GM, ML, SM	A-1, A-2, A-4	0	0-15	35-100	20-100	15-95	15-70	20-35	3-10
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
PhC3:												
Penn----------	0-8	Channery silt loam	GM, ML	A-4	0	0-10	60-90	50-80	45-75	40-65	0-14	---
	8-21	Channery silt loam, channery loam, channery silty clay loam	GM, ML, SM	A-2, A-4	0	0-10	55-100	50-100	45-95	30-75	20-37	1-10
	21-34	Very channery silt loam, very channery loam	CL, GM, ML, SM	A-1, A-2, A-4	0	0-15	35-100	20-100	15-95	15-70	20-35	3-10
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
PnA2:												
Penn----------	0-8	Silt loam	ML	A-4	0	0-5	95-100	80-100	80-95	60-85	0-14	---
	8-21	Channery silt loam, channery loam, channery silty clay loam	GM, ML, SM	A-2, A-4	0	0-10	55-100	50-100	45-95	30-75	20-37	1-10
	21-34	Very channery silt loam, very channery loam	CL, GM, ML, SM	A-1, A-2, A-4	0	0-15	35-100	20-100	15-95	15-70	20-35	3-10
	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	
PnB2:												
Penn----------	0-8	Silt loam	ML	A-4	0	0-5	95-100	80-100	80-95	60-85	0-14	---
	8-21	Channery silt loam, channery loam, channery silty clay loam	GM, ML, SM	A-2, A-4	0	0-10	55-100	50-100	45-95	30-75	20-37	1-10
	21-34	Very channery silt loam, very channery loam	CL, GM, ML, SM	A-1, A-2, A-4	0	0-15	35-100	20-100	15-95	15-70	20-35	3-10
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
PnC2:												
Penn----------	0-8	Silt loam	ML	A-4	0	0-5	95-100	80-100	80-95	60-85	0-14	---
	8-21	Channery silt loam, channery loam, channery silty clay loam	GM, ML, SM	A-2, A-4	0	0-10	55-100	50-100	45-95	30-75	20-37	1-10
	21-34	Very channery silt loam, very channery loam	CL, GM, ML, SM	A-1, A-2, A-4	0	0-15	35-100	20-100	15-95	15-70	20-35	3-10
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
PnC3:												
Penn----------	0-8	Silt loam	ML	A-4	0	0-5	95-100	80-100	80-95	60-85	0-14	---
	8-21	Channery silt loam, channery loam, channery silty clay loam	GM, ML, SM	A-2, A-4	0	0-10	55-100	50-100	45-95	30-75	20-37	1-10
	21-34	Very channery silt loam, very channery loam	CL, GM, ML, SM	A-1, A-2, A-4	0	0-15	35-100	20-100	15-95	15-70	20-35	3-10
	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	
PoD:												
Penn----------	0-8	Silt loam	ML	A-4	0	0-5	95-100	80-100	80-95	60-85	0-14	---
	8-21	Channery silt loam, channery loam, channery silty clay loam	GM, ML, SM	A-2, A-4	0	0-10	55-100	50-100	45-95	30-75	20-37	1-10
	21-34	Very channery silt loam, very channery loam	CL, GM, ML, SM	A-1, A-2, A-4	0	0-15	35-100	20-100	15-95	15-70	20-35	3-10
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
PsB2:												
Penn----------	0-8	Loam	ML	A-4	0	0-5	95-100	80-100	80-95	60-85	0-14	---
	8-21	Channery silt loam, channery loam, channery silty clay loam	GM, ML, SM	A-2, A-4	0	0-10	55-100	50-100	45-95	30-75	20-37	1-10
	21-34	Very channery silt loam, very channery loam	CL, GM, ML, SM	A-1, A-2, A-4	0	0-15	35-100	20-100	15-95	15-70	20-35	3-10
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
Steinsburg------	0-8	Loam	CL, SC-SM	A-4	0	0-5	95-100	90-100	65-90	35-70	15-25	5-10
	8-15	Loam, gravelly sandy loam, fine sandy loam	SC-SM, SM	A-1, A-2, A-4	0	0-10	75-95	65-85	35-60	15-40	15-25	NP-5
	15-30	Gravelly sandy loam, very gravelly loamy sand	GM, SM	A-1, A-2	0	10-40	45-85	40-80	35-60	15-35	15-25	NP-3
	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	
PsC3:												
Penn----------	0-8	Loam	ML	A-4	0	0-5	95-100	80-100	80-95	60-85	0-14	---
	8-21	Channery silt loam, channery loam, channery silty clay loam	GM, ML, SM	A-2, A-4	0	0-10	55-100	50-100	45-95	30-75	20-37	1-10
	21-34	Very channery silt loam, very channery loam	CL, GM, ML, SM	A-1, A-2, A-4	0	0-15	35-100	20-100	15-95	15-70	20-35	3-10
	34-38	Unweathered bedrock			---	---	---	---	---	---	---	---
Steinsburg------	0-8	Loam	CL, SC-SM	A-4	0	0-5	95-100	90-100	65-90	35-70	15-25	5-10
	8-15	Loam, gravelly sandy loam, fine sandy loam	SC-SM, SM	A-1, A-2, A-4	0	0-10	75-95	65-85	35-60	15-40	15-25	NP-5
	15-30	Gravelly sandy loam, very gravelly loamy sand	GM, SM	A-1, A-2	0	10-40	45-85	40-80	35-60	15-35	15-25	NP-3
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---
RaA:												
Raritan---------	0-9	Silt loam	ML, SM	A-4	0	0	85-100	75-90	60-90	45-80	0-14	---
	9-27	Clay loam, loam, silt loam	CL, ML	A-4, A-6	0	0-5	90-100	80-95	70-90	50-70	25-35	3-11
	27-43	Clay loam, loam, silt loam	CL, ML	A-4, A-6	0	0-5	90-100	80-95	70-90	50-70	25-35	3-11
	43-60	Stratified gravelly loamy sand to silty clay loam	GM, GW-GM, ML, SM	A-1, A-2, A-4	0-1	0-10	60-100	40-90	20-90	10-85	25-35	NP-7

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	
RaB:												
Raritan---------	0-9	Silt loam	ML, SM	A-4	0	0	85-100	75-90	60-90	45-80	0-14	---
	9-27	Clay loam, loam, silt loam	CL, ML	A-6, A-4	0	0-5	90-100	80-95	70-90	50-70	25-35	3-11
	27-43	Clay loam, loam, silt loam	CL, ML	A-4, A-6	0	0-5	90-100	80-95	70-90	50-70	25-35	3-11
	43-60	Stratified gravelly loamy sand to silty clay loam	GM, GW-GM, ML, SM	A-1, A-2, A-4	0-1	0-10	60-100	40-90	20-90	10-85	25-35	NP-7
Ro:												
Rowland---------	0-10	Silt loam	ML, SM	A-4	0	0-5	95-100	95-100	75-100	35-95	0-14	---
	10-28	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
	28-44	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
	44-60	Stratified sand to gravel	GM, SM	A-1, A-2	0-1	0-15	55-80	30-70	20-40	15-30	0-14	---
StB2:												
Steinsburg------	0-8	Gravelly loam	CL, SC-SM	A-4	0	0-15	80-95	65-85	35-60	35-55	15-25	5-10
	8-15	Loam, gravelly sandy loam, fine sandy loam	SC-SM, SM	A-1, A-2, A-4	0	0-10	75-95	65-85	35-60	15-40	15-25	NP-5
	15-30	Gravelly sandy loam, very gravelly loamy sand	GM, SM	A-1, A-2	0	10-40	45-85	40-80	35-60	15-35	15-25	NP-3
	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	
StD3:												
Steinsburg------	0-8	Gravelly loam	CL, SC-SM	A-4	0	0-15	80-95	65-85	35-60	35-55	15-25	5-10
	8-15	Loam, gravelly sandy loam, fine sandy loam	SC-SM, SM	A-1, A-2, A-4	0	0-10	75-95	65-85	35-60	15-40	15-25	NP-5
	15-30	Gravelly sandy loam, very gravelly loamy sand	GM, SM	A-1, A-2	0	10-40	45-85	40-80	35-60	15-35	15-25	NP-3
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---
UrA:												
Urbana----------	0-9	Silt loam	ML	A-4, A-6	0	0	85-100	80-100	70-95	60-85	30-38	6-12
	9-18	Silty clay loam, silt loam, clay loam	CL	A-4, A-6	0	0	85-100	75-95	70-90	60-85	30-38	8-14
	18-29	Silt loam, channery silt loam, silty clay loam	CL	A-4, A-6	---	0-5	70-95	65-95	60-95	50-85	26-38	6-14
	29-54	Very channery silt loam, channery silt loam	GM, ML	A-1, A-2, A-4	---	25-60	40-95	15-75	15-75	10-65	26-38	3-10
	54-58	Unweathered bedrock			---	---	---	---	---	---	---	---
UrB2:												
Urbana----------	0-9	Silt loam	ML	A-4, A-6	0	0	85-100	80-100	70-95	60-85	30-38	6-12
	9-18	Silty clay loam, silt loam, clay loam	CL	A-4, A-6	0	0	85-100	75-95	70-90	60-85	30-38	8-14
	18-29	Silt loam, channery silt loam, silty clay loam	CL	A-4, A-6	---	0-5	70-95	65-95	60-95	50-85	26-38	6-14
	29-54	Very channery silt loam, channery silt loam	GM, ML	A-1, A-2, A-4	---	25-60	40-95	15-75	15-75	10-65	26-38	3-10
	54-58	Unweathered 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	
Ws:												
Wiltshire-------	0-12	Silt loam	CL, ML	A-4, A-6	0	0-5	90-100	85-100	80-95	75-90	25-35	2-11
	12-28	Loam, channery silty clay loam, gravelly silt loam	CL, CL-ML	A-4, A-6, A-7	0	0-10	80-100	65-100	60-95	55-85	25-45	6-20
	28-48	Silty clay loam, channery loam, gravelly silt loam	CL, CL-ML, SC, SC-SM	A-4, A-6, A-7	0	0-15	75-100	55-100	50-95	45-90	20-45	4-20
	48-65	Clay, channery loam, silty clay loam	GC, SC-SM, CH, CL	A-2, A-4, A-6, A-7	0	0-20	50-100	20-100	15-95	15-90	20-52	4-25