

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

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
Ad: FLUVAQUENTS-----	In											
	0-6		CL-ML, ML, SC-SM, SM	A-4	---	0-5	75-100	60-100	50-80	35-60	10-20	NP-5
	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	95-100	95-100	80-100	50-95	15-40	2-25
ATKINS MELVIN---	---	---	---	---	---	---	---	---	---	---	---	---
At: ATKINS-----	0-7	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0	90-100	85-100	75-100	60-95	20-40	3-20
	7-38	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
	38-60	Stratified silty clay loam to gravelly sandy loam	CL, GM, ML, SM	A-2, A-4, A-6	---	0-15	60-100	60-100	50-95	30-85	20-40	1-15
BcB: ELLIBER-----	0-12	Very cherty silt loam	GM, GP	A-1, A-2, A-4	---	5-15	30-60	20-55	15-45	10-40	---	---
	12-60	Cherty silt loam, very cherty sandy loam, very cherty loam	GM, GP-GM, SM, SP-SM	A-1, A-2, A-4	---	20-40	40-65	30-60	25-50	5-40	20-35	NP-7
BcC: ELLIBER-----	0-12	Very cherty silt loam	GM, GP	A-1, A-2, A-4	---	5-15	30-60	20-55	15-45	10-40	---	---
	12-60	Cherty silt loam, very cherty sandy loam, very cherty loam	GM, GP-GM, SM, SP-SM	A-1, A-2, A-4	---	20-40	40-65	30-60	25-50	5-40	20-35	NP-7

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct						
BcD: ELLIBER-----	0-12	Very cherty silt loam	GM, GP	A-1, A-2, A-4	---	5-15	30-60	20-55	15-45	10-40	---	---
	12-60	Cherty silt loam, very cherty sandy loam, very cherty loam	GM, GP-GM, SM, SP-SM	A-1, A-2, A-4	---	20-40	40-65	30-60	25-50	5-40	20-35	NP-7
BrC: ELLIBER-----	0-12	Very stony loam	GM, GP	A-1, A-2, A-4	---	3-15	30-60	20-60	15-50	10-40	---	---
	12-60	Cherty silt loam, very cherty sandy loam, very cherty clay loam	GM, GP-GM, SP-SM	A-1, A-2, A-4	---	20-40	40-65	5-45	5-45	5-40	20-35	NP-7
BrD: ELLIBER-----	0-12	Very stony loam	GM, GP	A-1, A-2, A-4	---	3-15	30-60	20-60	15-50	10-40	---	---
	12-60	Cherty silt loam, very cherty sandy loam, very cherty clay loam	GM, GP-GM, SP-SM	A-1, A-2, A-4	---	20-40	40-65	5-45	5-45	5-40	20-35	NP-7
BrE: ELLIBER-----	0-12	Very stony loam	GM, GP	A-1, A-2, A-4	---	3-15	30-60	20-60	15-50	10-40	---	---
	12-60	Cherty silt loam, very cherty sandy loam, very cherty clay loam	GM, GP-GM, SP-SM	A-1, A-2, A-4	---	20-40	40-65	5-45	5-45	5-40	20-35	NP-7

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
CaA: CAPTINA-----	In											
	0-13	Silt loam	ML	A-4	---	0	95-100	92-100	85-100	75-90	15-30	NP-7
	13-26	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	---	0	95-100	92-100	85-100	80-95	20-40	5-15
	26-40	Silt loam, silty clay loam, cherty silt loam	CL, CL-ML, SC, SC-SM	A-4, A-6	---	0-5	75-100	50-100	40-100	35-95	20-40	5-20
	40-60	Silt loam, cherty silty clay loam, very cherty silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-15	50-100	25-100	20-100	20-95	20-40	7-20
ROBERTSVILLE----	---	---	---	---	---	---	---	---	---	---	---	---
CaB: CAPTINA-----	In											
	0-13	Silt loam	ML	A-4	---	0	95-100	92-100	85-100	75-90	15-30	NP-7
	13-26	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	---	0	95-100	92-100	85-100	80-95	20-40	5-15
	26-40	Silt loam, silty clay loam, cherty silt loam	CL, CL-ML, SC, SC-SM	A-4, A-6	---	0-5	75-100	50-100	40-100	35-95	20-40	5-20
	40-60	Silt loam, cherty silty clay loam, very cherty silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-15	50-100	25-100	20-100	20-95	20-40	7-20

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
OTHER SOILS-----	---	---	---	---	---	---	---	---	---	---	---	---
CkB: CLARKSBURG-----	0-9	Silt loam	CL	A-4, A-6	---	0-5	90-100	85-100	80-95	75-90	25-35	2-11
	9-21	Loam, channery silty clay loam, gravelly silt loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-10	80-100	65-100	60-95	55-85	25-45	6-20
	21-36	Silty clay loam, channery loam, gravelly silt loam	CL, CL-ML, SC, SC-SM	A-4, A-6, A-7	---	0-15	75-100	55-100	50-95	45-90	20-45	4-20
	36-40	Clay, channery loam, silty clay loam	CH, CL, GC, SC-SM	A-2, A-4, A- 6, A-7	---	0-20	50-100	20-100	15-95	15-90	20-52	4-25
MELVIN-----	---	---	---	---	---	---	---	---	---	---	---	---
CkC: CLARKSBURG-----	0-9	Silt loam	CL	A-4, A-6	---	0-5	90-100	85-100	80-95	75-90	25-35	2-11
	9-21	Loam, channery silty clay loam, gravelly silt loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-10	80-100	65-100	60-95	55-85	25-45	6-20
	21-36	Silty clay loam, channery loam, gravelly silt loam	CL, CL-ML, SC, SC-SM	A-4, A-6, A-7	---	0-15	75-100	55-100	50-95	45-90	20-45	4-20
	36-40	Clay, channery loam, silty clay loam	CH, CL, GC, SC-SM	A-2, A-4, A- 6, A-7	---	0-20	50-100	20-100	15-95	15-90	20-52	4-25

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
DeF: DEKALB-----	0-4	Very stony loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	---	10-30	50-90	45-80	40-75	20-55	10-32	NP-10
	4-14	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	---	5-40	50-85	40-75	40-75	20-55	15-32	NP-9
	14-30	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
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---
DfB: DUFFIELD-----	0-10	Silt loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0	85-100	85-100	80-100	70-95	20-50	5-20
	10-33	Silty clay loam, silty clay, shaly loam	CH, CL, MH, ML	A-4, A-6, A-7	---	0-10	65-100	60-100	55-100	55-95	30-55	8-22
	33-38	Shaly silt loam, loam, clay	GM, MH, ML, SM	A-5, A-7	---	0-20	65-100	50-95	45-90	40-90	40-60	9-29
DfC: DUFFIELD-----	0-10	Silt loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0	85-100	85-100	80-100	70-95	20-50	5-20
	10-33	Silty clay loam, silty clay, shaly loam	CH, CL, MH, ML	A-4, A-6, A-7	---	0-10	65-100	60-100	55-100	55-95	30-55	8-22
	33-38	Shaly silt loam, loam, clay	GM, MH, ML, SM	A-5, A-7	---	0-20	65-100	50-95	45-90	40-90	40-60	9-29
DfD: DUFFIELD-----	0-10	Silt loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0	85-100	85-100	80-100	70-95	20-50	5-20
	10-33	Silty clay loam, silty clay, shaly loam	CH, CL, MH, ML	A-4, A-6, A-7	---	0-10	65-100	60-100	55-100	55-95	30-55	8-22
	33-38	Shaly silt loam, loam, clay	GM, MH, ML, SM	A-5, A-7	---	0-20	65-100	50-95	45-90	40-90	40-60	9-29

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct						
DfD3: DUFFIELD-----	0-10	Silt loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0	85-100	85-100	80-100	70-95	20-50	5-20
	10-33	Silty clay loam, silty clay, shaly loam	CH, CL, MH, ML	A-4, A-6, A-7	---	0-10	65-100	60-100	55-100	55-95	30-55	8-22
	33-38	Shaly silt loam, loam, clay	GM, MH, ML, SM	A-5, A-7	---	0-20	65-100	50-95	45-90	40-90	40-60	9-29
DfE: DUFFIELD-----	0-10	Silt loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0	85-100	85-100	80-100	70-95	20-50	5-20
	10-33	Silty clay loam, silty clay, shaly loam	CH, CL, MH, ML	A-4, A-6, A-7	---	0-10	65-100	60-100	55-100	55-95	30-55	8-22
	33-38	Shaly silt loam, loam, clay	GM, MH, ML, SM	A-5, A-7	---	0-20	65-100	50-95	45-90	40-90	40-60	9-29
DkB: DUFFIELD-----	0-10	Silt loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0	85-100	85-100	80-100	70-95	20-50	5-20
	10-33	Silty clay loam, silty clay, shaly loam	CH, CL, MH, ML	A-4, A-6, A-7	---	0-10	65-100	60-100	55-100	55-95	30-55	8-22
	33-38	Shaly silt loam, loam, clay	GM, MH, ML, SM	A-5, A-7	---	0-20	65-100	50-95	45-90	40-90	40-60	9-29
DkC: DUFFIELD-----	0-10	Silt loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0	85-100	85-100	80-100	70-95	20-50	5-20
	10-33	Silty clay loam, silty clay, shaly loam	CH, CL, MH, ML	A-4, A-6, A-7	---	0-10	65-100	60-100	55-100	55-95	30-55	8-22
	33-38	Shaly silt loam, loam, clay	GM, MH, ML, SM	A-5, A-7	---	0-20	65-100	50-95	45-90	40-90	40-60	9-29

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
DtB: DUNMORE-----	0-12 12-48	Silt loam Clay, silty clay	CL, CL-ML, ML CH, MH	A-4, A-6 A-7	---	0-5 0-5	80-100 85-100	75-90 75-95	65-80 70-95	60-75 65-95	18-30 50-70	3-11 20-36
DtC: DUNMORE-----	0-12 12-48	Silt loam Clay, silty clay	CL, CL-ML, ML CH, MH	A-4, A-6 A-7	---	0-5 0-5	80-100 85-100	75-90 75-95	65-80 70-95	60-75 65-95	18-30 50-70	3-11 20-36
DtD: DUNMORE-----	0-12 12-48	Silt loam Clay, silty clay	CL, CL-ML, ML CH, MH	A-4, A-6 A-7	---	0-5 0-5	80-100 85-100	75-90 75-95	65-80 70-95	60-75 65-95	18-30 50-70	3-11 20-36
DuD3: DUNMORE-----	0-12 12-48	Silty clay loam Clay, silty clay	CL CH, MH	A-6, A-7 A-7	---	0-5 0-5	85-100 85-100	75-95 75-95	70-95 70-95	65-90 65-95	32-44 50-70	12-20 20-36
DvB: DUNMORE-----	0-12 12-48	Silt loam Clay, silty clay	CL, CL-ML, ML CH, MH	A-4, A-6 A-7	---	0-5 0-5	80-100 85-100	75-90 75-95	65-80 70-95	60-75 65-95	18-30 50-70	3-11 20-36
DvC: DUNMORE-----	0-12 12-48	Silt loam Clay, silty clay	CL, CL-ML, ML CH, MH	A-4, A-6 A-7	---	0-5 0-5	80-100 85-100	75-90 75-95	65-80 70-95	60-75 65-95	18-30 50-70	3-11 20-36
DvD: DUNMORE-----	0-12 12-48	Silt loam Clay, silty clay	CL, CL-ML, ML CH, MH	A-6, A-4 A-7	---	0-5 0-5	80-100 85-100	75-90 75-95	65-80 70-95	60-75 65-95	18-30 50-70	3-11 20-36
FcB: FREDERICK-----	0-13 13-19 19-48 48-63	Gravelly silt loam Gravelly silty clay loam, silty clay, clay Clay, silty clay Clay, silty clay	CL, GC, GM, ML CH, MH, SC, SM CH CH	A-4, A-6 A-7 A-7 A-7	---	0-10 0-5 0-5 0-5	60-80 80-100 90-100 90-100	50-75 50-95 85-100 85-100	40-70 45-90 70-100 70-100	35-65 35-85 60-85 50-75	15-35 50-70 60-85 50-75	NP-15 20-40 30-50 25-45

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
FcC: FREDERICK-----	In											
	0-13	Gravelly silt loam	CL, GC, GM, ML	A-4, A-6	---	0-10	60-80	50-75	40-70	35-65	15-35	NP-15
	13-19	Gravelly silty clay loam, silty clay, clay	CH, MH, SC, SM	A-7	---	0-5	80-100	50-95	45-90	35-85	50-70	20-40
	19-48	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-85	60-85	30-50
	48-63	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	50-75	50-75	25-45
FcD: FREDERICK-----												
	0-13	Gravelly silt loam	CL, GC, GM, ML	A-4, A-6	---	0-10	60-80	50-75	40-70	35-65	15-35	NP-15
	13-19	Gravelly silty clay loam, silty clay, clay	CH, MH, SC, SM	A-7	---	0-5	80-100	50-95	45-90	35-85	50-70	20-40
	19-48	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-85	60-85	30-50
	48-63	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	50-75	50-75	25-45
FcE: FREDERICK-----												
	0-13	Gravelly silt loam	CL, GC, GM, ML	A-4, A-6	---	0-10	60-80	50-75	40-70	35-65	15-35	NP-15
	13-19	Gravelly silty clay loam, silty clay, clay	CH, MH, SC, SM	A-7	---	0-5	80-100	50-95	45-90	35-85	50-70	20-40
	19-48	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-85	60-85	30-50
	48-63	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	50-75	50-75	25-45
FdB: FREDERICK-----												
	0-13	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	80-100	75-100	75-95	75-90	15-35	NP-15
	13-19	Silty clay loam, silty clay, clay	CH, MH	A-7	---	0-5	80-100	75-100	70-95	60-90	50-70	20-40
	19-48	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-95	60-85	30-55
	48-63	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	75-100	65-95	50-75	24-45

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
FdC: FREDERICK-----	In											
	0-13	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	80-100	75-100	75-95	75-90	15-35	NP-15
	13-19	Silty clay loam, silty clay, clay	CH, MH	A-7	---	0-5	80-100	75-100	70-95	60-90	50-70	20-40
	19-48	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-95	60-85	30-55
	48-63	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	75-100	65-95	50-75	24-45
FdD: FREDERICK-----												
	0-13	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	80-100	75-100	75-95	75-90	15-35	NP-15
	13-19	Silty clay loam, silty clay, clay	CH, MH	A-7	---	0-5	80-100	75-100	70-95	60-90	50-70	20-40
	19-48	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-95	60-85	30-55
	48-63	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	75-100	65-95	50-75	24-45
FdE: FREDERICK-----												
	0-13	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	80-100	75-100	75-95	75-90	15-35	NP-15
	13-19	Silty clay loam, silty clay, clay	CH, MH	A-7	---	0-5	80-100	75-100	70-95	60-90	50-70	20-40
	19-48	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-95	60-85	30-55
	48-63	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	75-100	65-95	50-75	24-45
FkB: FREDERICK-----												
	0-13	Gravelly silt loam	CL, GC, GM, ML	A-4, A-6	---	0-10	60-80	50-75	40-70	35-65	15-35	NP-15
	13-19	Gravelly silty clay loam, silty clay, clay	CH, MH, SC, SM	A-7	---	0-5	80-100	50-95	45-90	35-85	50-70	20-40
	19-48	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-85	60-85	30-50
	48-63	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	50-75	50-75	25-45

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		
					Pct	Pct						
FkC: FREDERICK-----	In											
	0-13	Gravelly silt loam	CL, GC, GM, ML	A-4, A-6	---	0-10	60-80	50-75	40-70	35-65	15-35	NP-15
	13-19	Gravelly silty clay loam, silty clay, clay	CH, MH, SC, SM	A-7	---	0-5	80-100	50-95	45-90	35-85	50-70	20-40
	19-48	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-85	60-85	30-50
	48-63	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	50-75	50-75	25-45
FmB: FREDERICK-----												
	0-13	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	80-100	75-100	75-95	75-90	15-35	NP-15
	13-19	Silty clay loam, silty clay, clay	CH, MH	A-7	---	0-5	80-100	75-100	70-95	60-90	50-70	20-40
	19-48	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-95	60-85	30-55
	48-63	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	75-100	65-95	50-75	24-45
FmC: FREDERICK-----												
	0-13	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	80-100	75-100	75-95	75-90	15-35	NP-15
	13-19	Silty clay loam, silty clay, clay	CH, MH	A-7	---	0-5	80-100	75-100	70-95	60-90	50-70	20-40
	19-48	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-95	60-85	30-55
	48-63	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	75-100	65-95	50-75	24-45
FrF: ELLIBER-----												
	0-12	Very cherty silt loam	GM, GP	A-1, A-2, A-4	---	5-15	30-60	20-55	15-45	10-40	---	---
	12-60	Cherty silt loam, very cherty sandy loam, very cherty loam	GM, GP-GM, SM, SP-SM	A-1, A-2, A-4	---	20-40	40-65	30-60	25-50	5-40	20-35	NP-7

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
FREDERICK-----	0-13	Gravelly silt loam	CL, GC, GM, ML	A-4, A-6	---	0-10	60-80	50-75	40-70	35-65	15-35	NP-15
	13-19	Gravelly silty clay loam, silty clay, clay	CH, MH, SC, SM	A-7	---	0-5	80-100	50-95	45-90	35-85	50-70	20-40
	19-48	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-85	60-85	30-50
	48-63	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	50-75	50-75	25-45
ROCK OUTCROP, HARD---	0-60				---	---	---	---	---	---	---	---
OTHER SOILS-----	---	---	---	---	---	---	---	---	---	---	---	---
FsC:												
DUNMORE-----	0-12	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	80-100	75-90	65-80	60-75	18-30	3-11
	12-48	Clay, silty clay	CH, MH	A-7	---	0-5	85-100	75-95	70-95	65-95	50-70	20-36
FREDERICK-----	0-13	Gravelly silt loam	CL, GC, GM, ML	A-4, A-6	---	0-10	60-80	50-75	40-70	35-65	15-35	NP-15
	13-19	Gravelly silty clay loam, silty clay, clay	CH, MH, SC, SM	A-7	---	0-5	80-100	50-95	45-90	35-85	50-70	20-40
	19-48	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-85	60-85	30-50
	48-63	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	50-75	50-75	25-45
ROCK OUTCROP, HARD---	0-60				---	---	---	---	---	---	---	---
OTHER SOILS-----	---	---	---	---	---	---	---	---	---	---	---	---
FsD:												
DUNMORE-----	0-12	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	80-100	75-90	65-80	60-75	18-30	3-11
	12-48	Clay, silty clay	CH, MH	A-7	---	0-5	85-100	75-95	70-95	65-95	50-70	20-36

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
LaC: LAIDIG-----	In											
	0-12	Gravelly loam	CL, GM, ML, SM	A-4	---	0-5	65-90	50-80	45-80	35-70	15-30	1-10
	12-39	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
	39-99	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
LaD: LAIDIG-----	0-12	Gravelly loam	CL, GM, ML, SM	A-4	---	0-5	65-90	50-80	45-80	35-70	15-30	1-10
	12-39	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
	39-99	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
LaE: LAIDIG-----	0-12	Gravelly loam	CL, GM, ML, SM	A-4	---	0-5	65-90	50-80	45-80	35-70	15-30	1-10
	12-39	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
	39-99	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		Fragments		Percentage passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct						
LbC: LAIDIG-----	0-12	Very stony loam	CL-ML, GC-GM, SC-SM, SM	A-4	---	3-15	65-90	50-80	45-80	35-70	15-30	NP-10
	12-39	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
	39-99	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
LbD: LAIDIG-----	0-12	Very stony loam	CL-ML, GC-GM, SC-SM, SM	A-4	---	3-15	65-90	50-80	45-80	35-70	15-30	NP-10
	12-39	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
	39-99	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
LbE: LAIDIG-----	0-12	Very stony loam	CL-ML, GC-GM, SC-SM, SM	A-4	---	3-15	65-90	50-80	45-80	35-70	15-30	NP-10
	12-39	Very channery loam, channery sandy clay loam, channery sandy loam	CL, ML, SC, SM	A-4, A-6, A-2	---	5-20	70-95	50-90	40-80	20-70	15-40	2-18
	39-99	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		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
	In											
MsD3: WEIKERT-----	0-8	Shaly silt loam	GM, ML, SM	A-1, A-2, A-4	---	0-10	35-70	35-70	25-65	20-55	30-40	4-10
	8-18	Shaly loam, very shaly silt loam, cherty loam	GM, GP-GM	A-1, A-2	---	0-20	15-60	10-55	5-45	5-35	28-36	3-9
	18-22	Unweathered bedrock			---	---	---	---	---	---	---	---
MuB: MURRILL-----	0-15	Channery loam	CL, GM, ML, SC-SM	A-2, A-4, A-6	---	0-5	65-80	55-70	45-65	30-65	20-40	3-15
	15-60	Channery silty clay loam, channery sandy clay loam, channery clay loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-15	65-85	60-70	55-65	50-65	20-50	5-25
	60-64	Clay loam, clay, channery clay loam	CH, CL, MH	A-6, A-7	---	0-20	80-100	65-100	60-100	55-100	35-75	20-40
MuC: MURRILL-----	0-15	Channery loam	CL, GM, ML, SC-SM	A-2, A-4, A-6	---	0-5	65-80	55-70	45-65	30-65	20-40	3-15
	15-60	Channery silty clay loam, channery sandy clay loam, channery clay loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-15	65-85	60-70	55-65	50-65	20-50	5-25
	60-64	Clay loam, clay, channery clay loam	CH, CL, MH	A-6, A-7	---	0-20	80-100	65-100	60-100	55-100	35-75	20-40

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
MuD: MURRILL-----	In											
	0-15	Channery loam	CL, GM, ML, SC-SM	A-2, A-4, A-6	---	0-5	65-80	55-70	45-65	30-65	20-40	3-15
	15-60	Channery silty clay loam, channery sandy clay loam, channery clay loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-15	65-85	60-70	55-65	50-65	20-50	5-25
	60-64	Clay loam, clay, channery clay loam	CH, CL, MH	A-6, A-7	---	0-20	80-100	65-100	60-100	55-100	35-75	20-40
MuE: MURRILL-----	0-15	Channery loam	CL, GM, ML, SC-SM	A-2, A-4, A-6	---	0-5	65-80	55-70	45-65	30-65	20-40	3-15
	15-60	Channery silty clay loam, channery sandy clay loam, channery clay loam	CL-ML, ML, CL	A-4, A-6, A-7	---	0-15	65-85	60-70	55-65	50-65	20-50	5-25
	60-64	Clay loam, clay, channery clay loam	CH, CL, MH	A-6, A-7	---	0-20	80-100	65-100	60-100	55-100	35-75	20-40
MvC: MURRILL-----	0-15	Very stony loam	CL, ML, SC, SC-SM	A-2, A-4, A-6	---	3-15	65-80	50-70	45-65	30-65	20-40	3-15
	15-60	Channery silty clay loam, channery sandy clay loam, channery clay loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-15	65-85	60-70	55-65	50-65	25-50	5-25
	60-64	Clay loam, clay, channery clay loam	CH, CL, MH	A-6, A-7	---	0-20	80-100	65-100	60-100	55-100	35-75	20-40

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
PkB: LAWRENCE-----	In											
	0-15	Silt loam	ML	A-4	---	0	100	95-100	90-100	80-100	25-35	2-10
	15-30	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	---	0	100	95-100	90-100	80-100	25-42	5-20
	30-44	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	---	0	100	95-100	90-100	80-100	25-42	5-20
	44-50	Silty clay, silty clay loam, silt loam	CL, CL-ML, MH, ML	A-4, A-6, A-7	---	0	95-100	90-100	85-100	75-100	25-60	5-25
MELVIN-----	---	---	---	---	---	---	---	---	---	---	---	---
Po: POPE-----	0-11	Fine sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	---	0	85-100	75-100	51-85	25-55	15-20	NP-5
	11-37	Fine sandy loam, sandy loam, loam	CL-ML, ML, SC-SM, SM	A-2, A-4	---	0	95-100	80-100	51-95	25-75	15-30	NP-7
	37-41	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
ATKINS-----	---	---	---	---	---	---	---	---	---	---	---	---
Ro: ROBERTSVILLE----	0-11	Silt loam	ML	A-4	---	0	95-100	95-100	85-100	75-100	25-35	2-10
	11-18	Silt loam, silty clay loam	CL, ML	A-4, A-6, A-7	---	0	95-100	95-100	90-100	80-100	25-45	3-20
	18-43	Silty clay loam, silt loam	CL, ML	A-4, A-6, A-7	---	0	95-100	95-100	90-100	80-100	25-45	3-20
	43-63	Silty clay loam, silty clay, silt loam	CH, CL, CL-ML	A-4, A-6, A-7	---	0-5	80-100	75-100	70-100	60-100	25-60	5-35
SoD: LITHIC UDORTHENTS-----	0-9		GC, GP-GC	A-2	---	0-20	25-50	20-45	15-40	10-35	25-35	7-14
SpE: LITHIC UDORTHENTS-----	0-9		GC, GP-GC	A-2	---	0-20	25-50	20-45	15-40	10-35	25-35	7-14

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
SrF: ROCK OUTCROP, HARD---	In 0-9		GC, GP-GC	A-2	---	0-20	25-50	20-45	15-40	10-35	25-35	7-14
SvC: SUMMERS-----	0-11 11-21 21-25	Very stony loam Channery loam, channery fine sandy loam, channery sandy loam Unweathered bedrock	GM, ML, SM GC, GM, ML, SM	A-2, A-4, A-6 A-2, A-4	---	10-30 5-30	60-85 55-80	50-70 55-70	40-65 45-65	30-60 35-60	20-40 20-40	1-12 1-15
TaB: CALVIN-----	0-7 7-20 20-24	Silt loam Channery silt loam, channery loam, very channery clay loam Unweathered bedrock	CL, ML GM, ML, SM	A-4 A-2, A-4, A-6	---	0-15 0-15	90-100 70-95	85-100 55-90	80-95 40-90	60-90 30-75	---	---
CATEACHE-----	0-8 8-14 14-22 22-26	Silt loam Channery silty clay loam, very channery silty clay loam Very channery silty clay loam, extremely channery silty clay loam Weathered bedrock	CL, CL-ML, GC, GC-GM CL, CL-ML, GC, GC-GM GC, GC-GM, GP, GP-GC	A-4, A-6 A-2, A-4, A-6 A-1, A-2, A- 4, A-6	---	0-5 0-15 0-20	85-100 40-85 20-60	80-95 35-80 10-50	75-90 30-80 10-45	60-85 25-70 10-40	20-40 20-40 20-40	4-15 4-15 4-15

