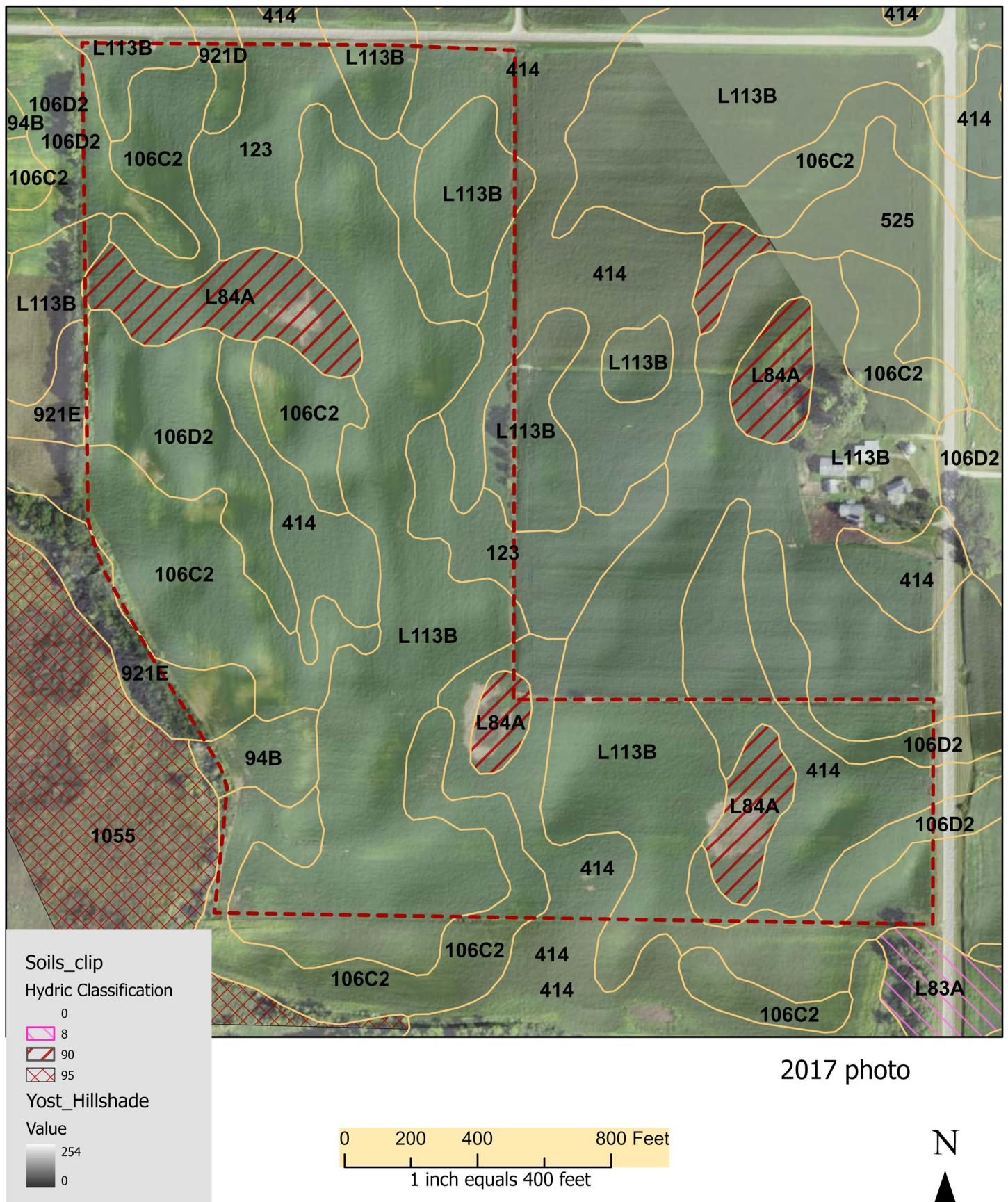


0 200 400 800 Feet
1 inch equals 400 feet

Topo Map





Soils Map

Report—Engineering Properties (MN)

Engineering Properties (MN)—Freeborn County, Minnesota

Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		>10 inches	3-10 inches	Percentage passing sieve number—			Liquid limit	Plasticity index
					Unified	AASHTO			4	10	40		
94B—Terril loam, 2 to 6 percent slopes			In				Pct	Pct				Pct	
Terril	80	B	0-9	Clay loam, sandy clay loam, loam	CL, MH, SC	A-7-5, A-7-6, A-6	0-3	0-1	87-100	71-98	63-96	41-66	32-51
			9-34	Clay loam, sandy clay loam, loam	CL, SC	A-7-6, A-6	0-3	0-1	87-100	72-98	64-97	41-66	32-46
			34-52	Sandy loam, loam, sandy clay loam	CL, SC	A-4, A-6	0-3	0-1	88-100	73-98	62-94	38-62	27-40
			52-79	Clay loam, sandy loam, loam	CL, SC	A-4, A-7-6, A-6	0-3	0-1	89-100	75-98	64-98	43-72	25-43
106C2—Lester loam, 6 to 10 percent slopes, moderately eroded													
Lester, moderately eroded	85	C	0-6	Loam	CL	A-7-6, A-6	0	0-5	95-99	84-98	72-91	52-68	32-44
			6-38	Clay loam, loam, sandy clay loam	CL	A-7-6	0-3	0-4	95-99	85-99	72-91	55-72	35-44
			38-79	Clay loam, loam	CL	A-6	0-3	0-4	95-99	86-99	74-95	54-72	28-40
													11-20

Engineering Properties (MN)--Freeborn County, Minnesota

Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10		
106D2—Lester loam, 10 to 16 percent slopes, moderately eroded		In			Pct	Pct					Pct	
Lester, moderately eroded	85 C	0-6	Loam	CL	A-7-6, A-6	0	0-5	95-99	84-98	72-91	52-68	32-44
		6-38	Clay loam, loam, sandy clay loam	CL	A-7-6	0-3	0-4	95-99	85-99	72-91	55-72	35-44
		38-79	Clay loam, loam	CL	A-6	0-3	0-4	95-99	86-99	74-95	54-72	28-40
123—Dundas silt loam, 0 to 2 percent slopes												
Dundas	85 C/D	0-7	Loam, clay loam, silt loam	ML	A-4, A-7-6	0-3	0-1	87-100	75-100	68-100	56-90	34-54
		7-10	Silt loam, loam, clay loam	CL	A-4, A-6	0-3	0-1	87-100	75-100	68-100	56-90	30-50
		10-12	Silt loam, loam, fine sandy loam	CL-ML	A-4, A-6	0-3	0-1	87-100	75-98	63-97	40-67	18-34
		12-38	Clay loam, loam	CL	A-7-6, A-6	0-3	0-1	88-100	76-98	63-96	46-73	31-47
		38-79	Clay loam, loam	CL	A-6	0-3	0-1	89-100	75-98	65-95	47-72	28-40
259C—Grays silt loam, 6 to 12 percent slopes												
Grays	90 B	0-12	Silt loam	CL	A-4, A-6	0	0	100	95-100	90-100	80-95	31-45
		12-47	Silt loam, silty clay loam	CL	A-7, A-6	0	0	100	95-100	90-100	80-90	35-46
		47-60	Silt loam	CL-ML, CL, ML	A-4, A-6	0	0	95-100	95-100	90-100	80-90	16-32
												2-13

Engineering Properties (MN)--Freeborn County, Minnesota

Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture		Classification		Percentage passing sieve number—				Liquid limit	Plasticity index
				Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
414—Hamel loam, 0 to 2 percent slopes		In				Pct	Pct					Pct	
Hamel	85 C/D	0-10	Loam, clay loam	CL, ML, OH, SM	A-7-5, A-6	0-2	85-100	66-98	60-97	41-70	38-60	13-20	
		10-24	Loam, clay loam	CL, MH, ML, SC	A-7-5, A-7-6, A-6	0-3	87-100	72-98	63-96	44-70	34-52	13-21	
		24-46	Clay loam, loam	CH, CL, SC	A-7-6, A-6	0-3	0-1	88-100	73-98	66-98	48-74	36-51	17-25
		46-79	Clay loam, loam	CL, SC	A-7-6, A-6	0-3	0-1	89-100	75-98	65-97	49-75	30-44	12-24
921D—Omstrand-Storden complex, 10 to 16 percent slopes, moderately eroded													
Omstrand, moderately eroded	55 B	0-9	Loam, sandy loam	CL, ML	A-7-6, A-6	0-3	0-1	87-100	71-98	59-93	39-64	27-43	9-18
		9-24	Loam, clay loam, sandy clay loam, sandy loam	CL	A-7-6, A-6	0-3	0-1	88-100	73-98	63-95	42-66	29-42	12-19
		24-36	Loam, sandy loam, clay loam	CL	A-6	0-3	0-1	89-100	75-98	62-98	42-72	26-45	9-23
		36-79	Loam, clay loam, sandy loam	CL	A-6	0-3	0-1	89-100	75-98	64-98	43-72	25-43	8-23
Storden, moderately eroded	35 B	0-8	Sandy loam, loam	CL, ML	A-4, A-6, A-7-6	0-3	0-1	87-100	71-98	59-93	39-64	27-43	8-17
		8-55	Loam	CL	A-4, A-6	0-3	0-1	89-100	75-98	64-92	44-66	25-37	9-16
		55-79	Loam, clay loam, sandy loam	CL	A-4, A-6, A-7-6	0-3	0-1	89-100	75-98	64-98	43-72	25-43	8-23

Engineering Properties (MN)--Freeborn County, Minnesota														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture		Classification		Percentage passing sieve number—			Liquid limit	Plasticity index		
				Unified	AASHTO	>10 inches	3-10 inches	4	10	40				
L84A—Glencoe clay loam, 0 to 1 percent slopes		In				Pct	Pct				Pct			
Glencoe	80	C/D	0-9	Silty clay loam, clay loam	CL, MH, ML, OH, OL	A-7-5, A-7-6	0-5	0-2	98-100	85-100	79-100	66-88	47-71	19-26
			9-39	Silty clay loam, clay loam	CL, MH, OH, OL	A-7-5, A-7-6, A-6	0-3	0-1	98-100	89-100	81-100	64-83	40-62	18-25
			39-50	Silty clay loam, clay loam	CH, CL	A-7-6, A-6	0-3	0-1	88-100	73-98	67-98	56-84	38-51	19-25
			50-79	Clay loam, loam	CL, SC	A-7-6, A-6	0-3	0-1	89-100	75-98	65-97	49-75	30-44	12-24

Engineering Properties (MN)--Freeborn County, Minnesota												
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10		
L113B—Reedslake-Le Sueur complex, 1 to 6 percent slopes		In			Pct	Pct					Pct	
Reedslake	59 C	0-6	Loam	CL, ML, SC	A-6, A-7-6	0	0-5	95-99	84-98	73-92	48-62	32-43
	6-15	Loam		CL, SC	A-6, A-7-6	0	0-5	95-99	84-98	74-92	48-62	32-41
	15-33	Sandy clay loam, loam, clay loam		CL	A-6, A-7-6	0-3	0-4	95-99	85-99	74-95	50-66	32-42
	33-54	Loam, clay loam		CL	A-6	0-3	0-4	95-99	85-99	74-93	55-71	30-40
	54-79	Loam, clay loam		CL	A-6	0-3	0-4	95-99	86-99	74-95	54-72	28-40
Le sueur	30 C/D	0-6	Loam, clay loam	CL, MH, ML	A-7-5, A-6	0	0-5	95-99	84-98	75-97	57-76	39-57
	6-11	Loam, clay loam		CL, MH	A-7-5, A-6, A-7-6	0	0-5	95-99	84-98	75-97	58-76	37-55
	11-24	Clay loam, loam		CL	A-6, A-7-6	0-3	0-4	95-99	85-99	74-97	53-72	36-48
	24-36	Loam, clay loam		CL	A-6	0-3	0-4	95-99	85-99	74-93	55-71	30-40
	36-55	Clay loam, loam		CL	A-6	0-3	0-4	95-99	86-99	73-94	53-71	28-40
	55-79	Loam, clay loam		CL	A-6	0-3	0-4	95-99	86-99	74-95	54-72	28-40
												11-21

Data Source Information

Soil Survey Area: Freeborn County, Minnesota
 Survey Area Data: Version 19, Sep 10, 2023