



Natural Resources Conservation Service
1120 Lincoln Road, Suite A
Idaho Falls, Idaho 83401

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I conducted a soils investigation in an area of approximately 80 acres in 5 N., R. 38 E southeast corner of section 22 in Jefferson County. The Jefferson County Soil Survey has this area mapped as Blackfoot silt loam, drained, 0 to 1 percent slopes.

My soils investigation shows this area to have sand and gravel at a depth of 20 to 40 inches as the dominate soil. This would fit the Labenzo soil series with a gravelly loam surface. The Labenzo soil has stratified silt loam to loam textures over sand and gravel at a depth of 20 to 40 inches. There are pockets of deeper soils and also soils that are shallow to sand and gravel.

This field data is Preliminary Data - Subject to change.

This area has been land leveled many times over the years. Swales and old channels were filled in while higher spots were leveled.

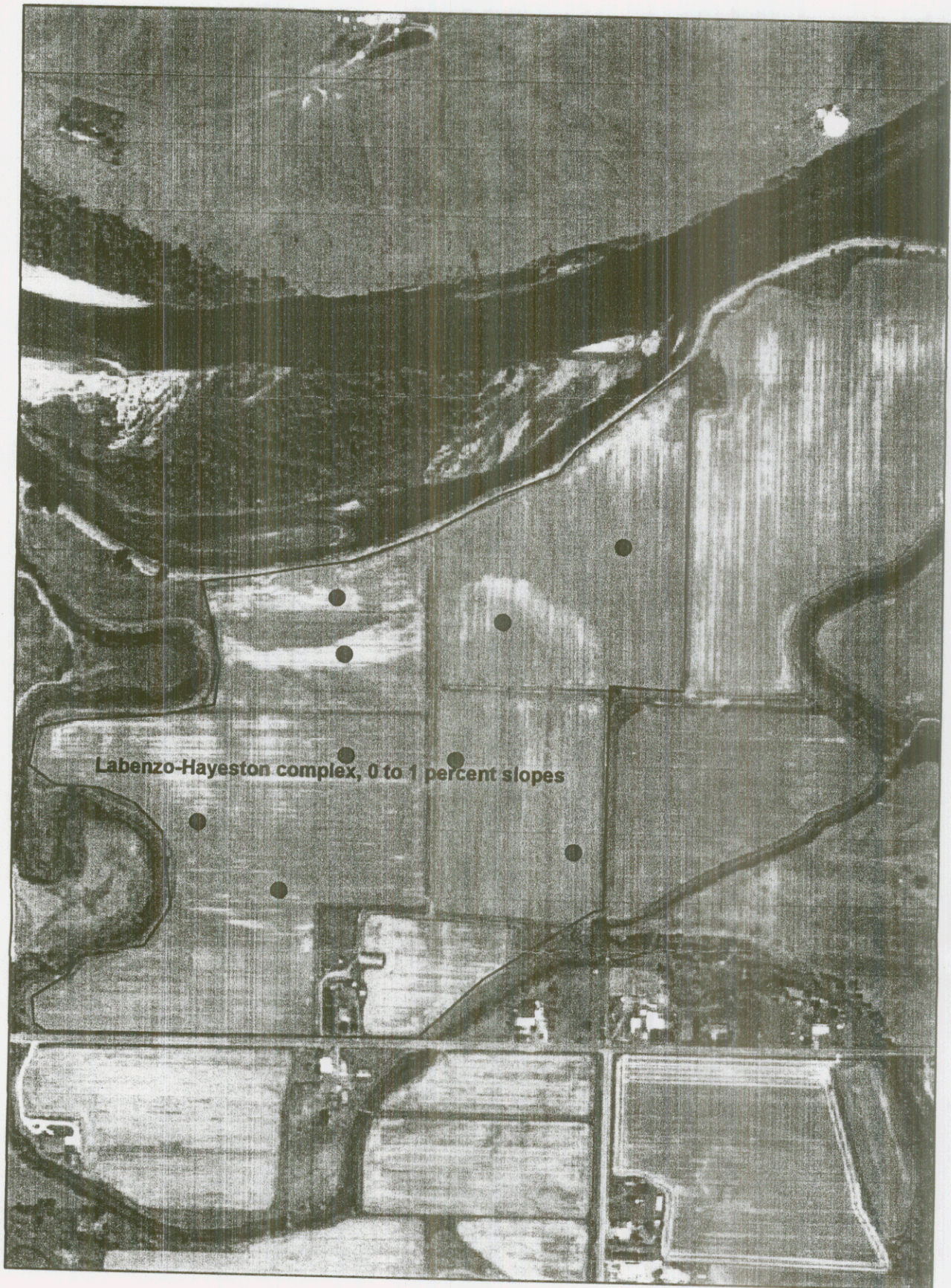
The field work for the Jefferson soil survey was conducted in the time period 1971-1974.

If you have any questions give me a call.

A handwritten signature in black ink, appearing to read "Brad Duncan", is written above the typed name.

Brad Duncan
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Soil Investigation - Robert Clark



190 95 0 190 Meters

Preliminary Data - Subject to change

Mapunit Descriptions

Jefferson County, Idaho

52 - LABENZO GRAVELLY LOAM

Mean annual precipitation: 8 to 12 inches

Mean annual temperature: 41 to 45 degrees F

Frost-free period: 80 to 115 days

Farmland class: Prime farmland if irrigated

LABENZO and similar soils

Extent: about 75 percent of the unit

Landform(s): low river terraces

Slope gradient: 0 to 1 percent

Parent material: alluvium derived from mixed

Restrictive feature(s): strongly contrasting textural stratification

Seasonal high water table: approximately 48 inches

Flooding frequency: none

Ponding frequency: none

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Land capability class, non-irrigated:

Land capability class, irrigated: 3s

Drainage class: moderately well drained

Hydric soil class: no

Hydrologic group: B

Representative soil profile:

	Texture
Ap - 0 to 13 in	gravelly loam
2C - 13 to 34 in	stratified loamy sand to silt loam
3C - 34 to 60 in	sand and gravel

Permeability	Available Water		pH	Kw	Kf
	Capacity				
moderately rapid	1.4 to 1.7 in		7.4 to 8.4	.17	.17
moderate	3.3 to 4.4 in		7.4 to 8.4	.37	.43
very rapid	1.0 to 1.6 in		7.4 to 8.4	.05	.10

Ecological Site / Plant Association:

Preliminary Data - Subject to change

Taxonomic Classification of the Soils

Jefferson County, Idaho

[An asterisk following the soil name indicates a taxadjunct to the series]

Soil name	Family or higher taxonomic classification
Labenzo	Fine-loamy over sandy or sandy-skeletal, mixed, frigid Fluventic Haploxerolls

Physical Soil Properties

Jefferson County, Idaho

[Entries under "Erosion Factors--T" apply to the entire profile. Entries under "Wind Erodibility Group" and "Wind Erodibility Index" apply only to the surface layer. Absence of an entry indicates that data were not estimated]

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
52:	In	Pct	Pct	Pct	g/cc	micro m/sec	In/in	Pct	Pct					
Labenzo	0-13	---	---	10-15	1.40-1.50	14.11-42.34	0.11-0.13	0.0-2.9	1.0-3.0	.17	.17	3	4L	86
	13-34	---	---	19-25	1.30-1.70	4.00-14.11	0.16-0.21	0.0-2.9	0.5-2.0	.37	.43			
	34-60	---	---	0-5	1.55-1.70	141.14	0.04-0.06	0.0-2.9	0.0-0.5	.05	.10			

Preliminary Data - Subject to change

Engineering Properties

Jefferson County, Idaho

[Absence of an entry indicates that the data were not estimated]

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
52:	In				Pct	Pct					Pct	
Labenzo	0-13	Gravelly loam	SC, SC-SM, SM	A-2, A-4	0	0	77-91	62-91	52-81	36-57	22-33	6-10
	13-34	Stratified loamy sand to silt loam	CL	A-6	0	0	90-100	80-95	60-95	60-85	30-35	10-15
	34-60	Stratified gravel to sand	GP, GP-GM	A-1	0	4-7	59-63	31-63	---	---	0-19	NP-2

Preliminary Data - Subject to change