

Wesby Ranch Site 5: Wetland Hardwood Hammock (Historical NRCS)

Soil Series and Map Unit Name: Felda fine sand

Map Unit Symbol: 13

SITE DATA:

Elevation: About 85 feet above MSL (Wicomico Marine Terrace)

Slope: 0 to 2 percent; On site: Nearly level with less than 1% gradient

lope shape(Up/Down-Across): Linear-linear, linear-concave, concave-linear

Geomorphic positions: Flats, slight depressions

Parent Material: Sandy marine deposits over loamy marine sediments

Drainage Class: Poorly or very poorly drained

Depth to seasonal high water table: Less than 30 centimeters between March through October

Ecological Community: Wetland Hardwood Hammock or Slough

Vegetation: Laurel oak (*Quercus laurifolia*), Live oak (*Quercus virginiana*), Cabbage palm (*Sabal palmetto*), American elm (*Ulmus Americana*), Hackberry/sugar berry (*Celtis laevigata*), Water oak (*Quercus nigra*), Sweetgum (*Liquidambar styraciflua*)

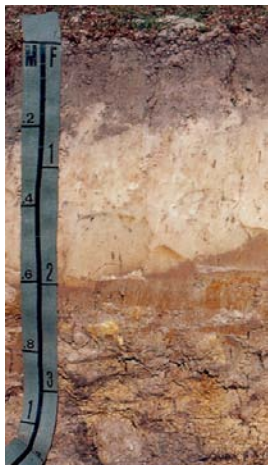


FELDA PEDON DESCRIPTON (from Highlands County):

Taxonomic Classification: Loamy, siliceous, superactive, hyperthermic Arenic Endoaqualfs

Location: Highlands County, FL. FL; 0.2 mile west and 0.1 mile north of the intersection of Hwy. 70 and Indian Prairie Canal (C-40); SW 1/4 SW 1/4. Sec. 32, T37N., R32E.

Describers: F. Sodek, E.W. Hopwood (IFAS) and L.J. Carter, D.L. Lewis, J. Vega (NRCS).



Ap horizon - 0 to 18 centimeters: Gray (10YR 5/1) fine sand; single grain; loose; many very fine & fine roots; extremely acid; clear wavy boundary.

Eg1 horizon - 18 to 36 centimeters: Light gray (10YR 7/1) fine sand; single grain; loose; few very fine & fine roots; very strongly acid; gradual wavy boundary.

Eg2 horizon - 36 to 53 centimeters: Light gray (10YR 7/2) fine sand; single grain; loose; strongly acid; clear wavy boundary.

Eg3 horizon - 53 to 61 centimeters: Dark grayish brown (10YR 4/2) fine sand dry; single grain; loose; strongly acid; gradual wavy boundary.

Btg horizon - 61 to 91 centimeters: Gray (5Y 6/1) fine sandy loam; moderate medium subangular blocky structure; friable; common medium prominent brownish-yellow (10YR 6/8) redox concentrations; moderately acid; gradual wavy boundary.

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BCg horizon - 91 to 117 centimeters: Light gray (10YR 7/2) fine sand; single grain; loose; many medium prominent brownish-yellow (10YR 6/8) redox concentrations; common pockets and lenses of calcium carbonate; slightly alkaline; gradual wavy boundary.

Cg1 horizon - 117 to 173 centimeters: light gray (10YR 7/2) fine sand; single grain; loose; few coarse prominent brownish-yellow (10YR 6/8) redox concentrations; few pockets and lenses of calcium carbonate; slightly alkaline; gradual wavy boundary.

Cg2 horizon - 173 to 203 centimeters: Dark grayish brown (10YR 4/2) fine sand; single grain; loose; few medium prominent brownish-yellow (10YR 6/8) redox concentrations; few pockets and lenses of calcium carbonate; slightly alkaline.

FELDA SERIES RANGE IN CHARACTERISTICS: Solum thickness ranges from 30 to 80 inches. Total thickness of the A and E horizons ranges from 20 to 40 inches. Reaction ranges from very strongly acid to slightly alkaline in the A and Eg horizons, from slightly acid to slightly alkaline in the Btg horizon, and from slightly acid to moderately alkaline in the BCg and Cg horizons.

The A or Ap horizon has hue of 10YR or 2.5Y, value of 2 to 5, and chroma of 1 or 2; or it is neutral with value of 2 to 5. Texture is sand, fine sand, mucky sand, mucky fine sand, or mucky loamy fine sand.

The Eg horizon has hue of 10YR or 2.5Y, value of 4 to 7, and chroma of 1 or 2; or it is neutral with value of 4 to 7. Soft masses of iron accumulation in shades of yellow or brown range from none to common. Texture is sand or fine sand.

The Btg horizon has hue of 10YR to 5Y, value of 4 to 7, and chroma of 1 or 2; or it is neutral with value of 4 to 7. Soft masses of iron accumulation in shades of yellow or brown range from none to common. Texture is sandy loam, fine sandy loam, or sandy clay loam. In some profiles a 1 or 2 inch thick weakly expressed Bh horizon may occur immediately above the Btg horizon.

The Cg horizon has hue of 10YR to 5G, value of 4 to 8, and chroma of 2 or less. Redoximorphic features in shades of yellow, brown, or gray range from none to common. Texture is sand, fine sand, or loamy sand. Sand-size shell fragments range from 0 to about 70 percent, by volume.

LABORATORY RESULTS (from Highlands County):

TOP DEPTH	BOTTOM DEPTH	VCO SAND	COARSE SAND	MEDIUM SAND	FINE SAND	VERY FINE SAND	TOTAL SAND	TOTAL SILT	TOTAL CLAY	TEXTURE CLASS	BULK DENSITY	AWC	PH_H2O	ORGANIC CARBON	TOTAL BASES	CEC SUM	BASE SAT
0	18	0	0.3	5.6	66.4	25.3	97.6	1.3	1.1	FS	1.23	0.18	3.8	1.33	1.14	8.24	14
18	36	0	0.6	5.8	57.3	34.4	98.1	1.6	0.3	FS	1.55	0.08	4.6	0.1	0.2	0.73	27
36	53	0	0.5	5.2	56.4	35.3	97.4	2	0.6	FS	1.6	0.09	5.1	0.07	0.23	0.6	38
53	61	0	0.7	5.6	53.1	31.7	91.1	3.7	5.2	FS	1.63	0.27	5.1	0.18	5.15	7.48	69
61	91	0	0.4	4.6	39.2	34.4	78.6	5.9	15.5	VFSL	1.56	0.29	5.7	0.08	15.75	18.35	86
91	117	0	0.4	4.4	46	40	90.8	4.6	4.6	FS	1.67	0.22	7.6	0.03	6.48	7.91	82
117	173	0	0.6	6	57.1	30	93.7	3.2	3.1	FS	1.66	0.23	7.8	0.07	12.44	12.59	99
173	203	0	0.8	6.7	56.5	27.4	91.4	3	5.6	FS	1.65	0.19	7.6	0.06	18.56	18.78	99