

Wesby Ranch Site 3: Cutthroat Seep (Historical NRCS)

Soil Series and Map Unit Name: Basinger, St. Johns, and Placid soils

Map Unit Symbol: 33

SITE DATA:

Elevation: About 90 feet above MSL (Wicomico Marine Terrace)

Slope: 0 to 2 percent; On site: Level with 0% gradient

Slope shape (Up/Down-Across): Linear-Linear, Concave-linear

Geomorphic positions: Toe slopes, foot slopes, slight depressions

Parent Material: Sandy marine deposits

Drainage Class: Very poorly drained

Depth to seasonal high water table: 0 to 15 centimeters for more than 2 months each year. Occasional ponding of long duration (7-30 days).

Ecological Community: Cutthroat seep

Vegetation: South Florida slash pine (*Pinus elliotii* var. *densa*), cutthroat grass (*Panicum abcissum*), bluestems (*Andropogon* spp.), wax myrtle (*Myrica cerifera*), Salt Bush (*Baccharis halimifolia*), Yellow-eyed grasses (*Xyris* spp.)



PLACID PEDON DESCRIPTON (near Archbold Biological Station):

Taxonomic Classification: Sandy, siliceous, hyperthermic Typic Humaquepts

Location: Highlands County, FL. NW 1/4 of Section 1, Township T34S, Range R30E.

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



A1 horizon - 0 to 8 centimeters: Black (N 2/0) fine sand; weak fine granular structure; friable; extremely acid; clear wavy boundary.

A2 horizon - 8 to 28 centimeters: Very dark gray (10YR 3/1) fine sand; weak fine granular structure; very friable; very strongly acid; gradual wavy boundary.

Cg1 horizon-28 to 96 centimeters: Light brownish gray (10YR 6/2); single grain; loose; common medium distinct very dark gray (10YR 3/1) iron depletions; slightly acid; gradual wavy boundary.

Cg2 horizon-96 to 124 centimeters: Dark grayish brown (10YR 4/2) fine sand; single grain; loose; moderately acid; gradual wavy boundary.

Cg3 horizon-124 to 145 centimeters: Light brownish gray (10YR 6/2) fine sand; single grain; loose; common medium faint brown (10YR 5/3) redox concentrations; slightly acid; gradual wavy boundary.

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Cg4 horizon-145 to 203 centimeters: Dark grayish brown (10YR 4/2) fine sand; single grain; loose; moderately acid.

PLACID SERIES RANGE IN CHARACTERISTICS: Thickness of the soil is more than 80 inches. Reaction ranges from extremely acid to strongly acid in the A or Ap horizon and from extremely acid to slightly acid in the underlying horizons.

The A or Ap horizon has hue of 7.5YR or 10YR or is neutral (N), value of 2 to 4, and chroma of 3 or less. Texture is sand, fine sand, loamy sand, loamy fine sand, or their mucky analogs. Some pedons have up to 3 inches of muck on the surface.

The C or Cg C horizon has hue of 10YR to 5Y, value of 4 to 8, and chroma of 3 or less. Redoximorphic features in shades of gray or brown range from none to many. Texture is sand, fine sand, loamy sand, or loamy fine sand.

LABORATORY RESULTS (near Archbold Biological Station):

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	8	0	1.5	32.1	52.1	11.1	96.8	2.1	1.1	FS	1.45	0.45	4.2	5.01	1.09	19.35	5
8	28	0	1.7	33	51.9	10.6	97.2	1.5	1.3	FS	1.49	0.21	5	0.85	0.13	3.28	3
28	96	0	1.7	29.9	53.8	13	98.4	1.2	0.4	FS	1.66	0.1	6.1	0.18	0.06	1.15	5
96	124	0	1.8	28.3	51.6	11.6	93.3	2.3	4.4	FS	1.77	0.2	5.6	0.29	0.6	2.14	28
124	145	0	1.8	27.9	52.6	11.1	93.4	2.3	4.3	FS	1.71	0.13	6.1	0.27	0.65	2.16	30
145	203	0	1.8	26.9	53.6	11.4	93.7	2	4.3	FS	1.71	0.12	5.8	0.33	0.56	2.88	19