

Wesby Ranch Site 1: Scrubby Flatwoods (*proposed*)

Soil Series and Map Unit Name: Duette sand

Map Unit Symbol: 5

SITE DATA:

Elevation: About 115 feet above MSL (Sunderland Marine Terrace)

Slope: Nearly level to gently sloping with 2% gradient

Slope shape(Up/Down-Across): Convex-convex, convex-linear, or linear-convex

Geomorphic positions: Summit, shoulder, backslope

Parent Material: Sandy marine deposits

Drainage Class: Moderately well drained

Depth to seasonal high water table: 122 to 183 centimeters from June through October

Ecological Community: Scrubby flatwoods

Vegetation: Sand pine (*Pinus clausa*), South Florida slash pine (*Pinus elliottii* var. *densa*), Saw palmetto (*Serenoa repens*), Fetterbush (*Lyonia lucida*), Rusty staggerbush (*Lyonia ferruginea*), Sand live oak (*Quercus geminata*), Chapman's oak (*Quercus chapmanii*), Coastal plain staggerbush (*Lyonia fruticosa*), Shiny blueberry (*Vaccinium* spp.)



DUETTE PEDON DESCRIPTON (from Archbold Biological Station):

Taxonomic Classification: Sandy, siliceous, hyperthermic Entic Grossarenic Alorthods

Location: Highlands County, FL; Archbold Biological Station; 0.9 mile north of station headquarters and 0.2 mile east of Seaboard Coat Line RR; NW 1/4, NW 1/4, Sec.8, R30E, T38S.

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



A horizon - 0 to 15 centimeters: Dark gray (10YR 4/1) sand; single grain; loose; few large, common medium and many fine and very fine roots; strongly acid; clear smooth boundary.

E horizon - 15 to 46 centimeters: Light gray (10YR 7/1) sand; single grain; loose; common medium and many fine and very fine roots; strongly acid; gradual wavy boundary.

E2 horizon - 46 to 130 centimeters: White (10YR 8/1) sand; single grain; loose; few medium and fine roots; strongly acid; abrupt wavy boundary.

Bh horizon - 130 to 150 centimeters: Dark reddish-brown (5YR 2/2) sand; weak fine granular structure with 15% weak fine subangular blocky; very friable; few medium roots; strongly acid; clear irregular boundary.

Bw horizon - 150 to 203 centimeters: Mixed dark yellowish-brown (10YR 3/4) and very pale brown (10YR 7/4) sand; single grain; loose; few medium roots; strongly acid.

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DUETTE SERIES RANGE IN CHARACTERISTICS:

Reaction ranges from very strongly acid to neutral in the A and E horizons and from extremely acid to slightly acid in the EB and Bh horizons. Some pedons have a EB horizon or BC horizon.

The A or Ap horizon has hue of 10YR, value of 3 to 6, and chroma of 1 or 2. Texture is fine sand or sand.

The E horizon has hue of 10YR, value of 5 to 8, and chroma of 1 or 2. Streaks and splotches of organic matter depletions and accumulations range from none to common. Texture is fine sand or sand.

The Bh horizon has hue of 5YR to 10YR, value of 2 to 4, and chroma of 1 or 4. Texture is fine sand or sand. Some pedons have a Bw horizon. Where present, it has hue of 7.5YR or 10YR, value of 3 to 7, and chroma of 2 to 4. Texture is sand or fine sand.

LABORATORY RESULTS (from 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	15	0	6.4	65	26.3	0.8	98.5	0.4	1.1	sand	1.27	0.09	4.4	0.75	0.5	4.69	11
15	46	0	6.7	64.9	27.3	0.6	99.5	0	0.5	sand	1.54	0.04	4.8	0.1	0.04	0.69	6
46	130	0	5.2	63	30.5	0.8	99.5	0	0.5	sand	1.58	0.02	4.8	0.05	0.06	0.68	9
130	150	0	4.8	60.8	31	0.7	97.3	0.1	2.6	sand	1.44	0.09	4.4	0.52	0.07	6.54	1
150	203	0	4.3	57.4	35.5	1	98.2	0.2	1.6	sand	1.48	0.04	4.5	0.2	0.08	2.83	3