

## Wesby Ranch Site 2: Scrubby Flatwoods (*Proposed*)

**Soil Series and Map Unit Name:** Pomello sand

**Map Unit Symbol:** 10

### **SITE DATA:**

**Elevation:** About 105 feet above MSL (Sunderland Marine Terrace)

**Slope:** 0 to 5 percent; On site: Gently sloping with 2-3% 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:** Somewhat poorly to moderately well drained

**Depth to seasonal high water table:** 61 to 107 centimeters from June to November

**Ecological Community:** Scrubby flatwoods

**Vegetation:** Sand Pine (*Pinus clausa*), Scrub hickory (*Carya floridana*), Saw palmetto (*Serenoa repens*), Scrub palmetto (*Sabal etonia*), Silk bay (*Persea borbonia* var. *humilis*), Scrub wild olive (*Osmanthus megacarpus*), Scrub oak (*Quercus inopina*)



### **POMELLO PEDON DESCRIPTON (from Highlands County):**

**Taxonomic Classification:** Sandy, siliceous, hyperthermic Oxyaquic Alorthods

**Location:** Highlands County, FL; USAF bombing range; 250' north and 2900' east of the SW 1/4, Sec.6, T34S, R31E.

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



**A horizon** - 0 to 10 centimeters: Dark gray (10YR 4/1) sand, rubbed; weak fine granular structure; loose; strongly acid; clear smooth boundary.

**E1 horizon** - 15 to 76 centimeters: White (10YR 8/1) sand; few large distinct dark grayish-brown (10YR 4/2) mottles; single grain; loose; moderately acid; abrupt wavy boundary.

**E2 horizon**-76 to 142 centimeters: White (10YR 8/1) sand; few large distinct dark grayish-brown (10YR 4/2) mottles; single grain; loose; strongly acid; abrupt wavy boundary.

**Bh horizon**-142 to 157 centimeters: Dark brown (7.5YR 3/2) sand; weak medium subangular blocky structure; friable; strongly acid; gradual wavy boundary.

**Bw horizon**-157 to 203 centimeters: Brown (10YR 4/3) sand single grain; loose; moderately acid.

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**POMELLO SERIES RANGE IN CHARACTERISTICS:** Solum thickness is 40 inches or more. The soil is sand, fine sand, or coarse sand to 80 or more inches. Reaction ranges from very strongly acid to moderately acid.

The A horizon has hue of 10YR or 2.5Y, value of 4 to 7, and chroma of 2 or less.

The E horizon has hue of 10YR or 2.5Y, value of 5 to 8, and chroma of 2 or less.

The Bh horizon has hue of 5YR to 10YR, value of 2 or 3, and chroma 1 to 3. In some pedons this horizon is mottled with the above hue, value, and chroma.

The Bw horizon, where present, has hue of 5YR to 10YR, value of 3 to 6, and chroma of 3 to 6. A few cobbles or boulders are in this horizon in a few areas.

The C horizon has hue of 10YR or 2.5Y, value of 5 to 7, and chroma of 1 to 4. A few cobbles or boulders are in this horizon in a few areas. In some pedons, a B'h horizon, is present instead of a C horizon. It has the same texture and color as the Bh horizon. It ranges up to 14 inches thick.

### **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	10	0	3.3	64	29.4	1.8	98.5	1.1	0.4	sand	1.54	0.04	5.5	0.49	0.36	1.29	27
10	76	0	2.6	54.9	37.7	3.7	98.9	0.3	0.8	sand	1.57	0.04	5.6	0.01	0.05	0.56	8
76	142	0	2.5	54	38.6	3.4	98.5	1.1	0.4	sand	1.61	0.04	5.2	0.02	0.04	0.28	14
142	157	0	2.7	49.6	37.2	2.7	92.2	3.8	4	sand	1.65	0.15	4.9	0.93	0.08	8	1
157	203	0	2.9	52.2	40.6	1.8	97.5	1.4	1.1	sand	1.58	0.07	5.9	0.28	0.14	2.07	6