

## Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

## Report—Map Unit Description

### Collier County Area, Florida

#### 2—Holopaw fine sand, limestone substratum

##### Map Unit Setting

*National map unit symbol:* 1jftb

*Mean annual precipitation:* 46 to 54 inches

*Mean annual air temperature:* 70 to 77 degrees F

*Frost-free period:* 350 to 365 days

*Farmland classification:* Farmland of unique importance

### Map Unit Composition

*Holopaw and similar soils:* 90 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Holopaw

#### Setting

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Parent material:* Sandy and loamy marine deposits over limestone

#### Typical profile

*A - 0 to 5 inches:* fine sand

*Eg - 5 to 57 inches:* fine sand

*Btg - 57 to 62 inches:* fine sandy loam

*2R - 62 to 66 inches:* unweathered bedrock

#### Properties and qualities

*Slope:* 0 to 2 percent

*Depth to restrictive feature:* 50 to 80 inches to lithic bedrock

*Natural drainage class:* Poorly drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately high to high (0.20 to 2.00 in/hr)

*Depth to water table:* About 0 to 12 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 4.0

*Available water storage in profile:* Low (about 5.6 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 4w

*Hydrologic Soil Group:* A/D

*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

### Minor Components

#### Basinger

*Percent of map unit:* 4 percent

*Landform:* — error in exists on —

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

### **Boca**

*Percent of map unit:* 3 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip, talf  
*Down-slope shape:* Concave  
*Across-slope shape:* Linear  
*Other vegetative classification:* Wetland Hardwood Hammock (R156AY012FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

### **Chobee**

*Percent of map unit:* 3 percent  
*Landform:* Depressions on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Loamy and clayey soils on stream terraces, flood plains, or in depressions (G156AC345FL)

## **3—Malabar fine sand, 0 to 2 percent slopes**

### **Map Unit Setting**

*National map unit symbol:* 2svz3  
*Elevation:* 0 to 130 feet  
*Mean annual precipitation:* 38 to 62 inches  
*Mean annual air temperature:* 68 to 77 degrees F  
*Frost-free period:* 300 to 365 days  
*Farmland classification:* Farmland of unique importance

### **Map Unit Composition**

*Malabar and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Malabar**

#### **Setting**

*Landform:* — error in exists on —  
*Landform position (three-dimensional):* Tread, dip  
*Down-slope shape:* Convex, concave  
*Across-slope shape:* Linear, concave  
*Parent material:* Sandy and loamy marine deposits

#### **Typical profile**

*A - 0 to 5 inches:* fine sand  
*E - 5 to 17 inches:* fine sand  
*Bw - 17 to 42 inches:* fine sand  
*Btg - 42 to 59 inches:* fine sandy loam  
*Cg - 59 to 80 inches:* loamy fine sand

### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Poorly drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):* High (2.00 to 6.00 in/hr)  
*Depth to water table:* About 0 to 12 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 1 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 5.3 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* A/D  
*Ecological site:* Slough (R155XY011FL)  
*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

### Minor Components

#### Basinger

*Percent of map unit:* 6 percent  
*Landform:* — error in exists on —  
*Landform position (three-dimensional):* Tread, dip  
*Down-slope shape:* Convex, concave  
*Across-slope shape:* Linear, concave  
*Ecological site:* Slough (R155XY011FL)  
*Other vegetative classification:* Unnamed (G155XU003FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

#### Valkaria

*Percent of map unit:* 5 percent  
*Landform:* — error in exists on —  
*Landform position (three-dimensional):* Tread, dip  
*Down-slope shape:* Convex, concave  
*Across-slope shape:* Linear, concave  
*Ecological site:* Slough (R155XY011FL)  
*Other vegetative classification:* Unnamed (G155XU011FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

#### Pompano

*Percent of map unit:* 3 percent  
*Landform:* — error in exists on —  
*Landform position (three-dimensional):* Tread, dip  
*Down-slope shape:* Convex, concave  
*Across-slope shape:* Linear, concave  
*Ecological site:* Slough (R155XY011FL)

*Other vegetative classification:* Unnamed (G155XU003FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

**Delray**

*Percent of map unit:* 1 percent

*Landform:* — error in exists on —

*Landform position (three-dimensional):* Tread, dip

*Down-slope shape:* Convex, concave

*Across-slope shape:* Linear, concave

*Ecological site:* Slough (R155XY011FL)

*Other vegetative classification:* Unnamed (G155XU001FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

**4—Chobee, limestone substratum, and Dania mucks, depressional**

**Map Unit Setting**

*National map unit symbol:* 1jftd

*Elevation:* 0 to 80 feet

*Mean annual precipitation:* 46 to 54 inches

*Mean annual air temperature:* 70 to 77 degrees F

*Frost-free period:* 350 to 365 days

*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Dania and similar soils:* 45 percent

*Chobee, limestone substratum, and similar soils:* 45 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Chobee, Limestone Substratum**

**Setting**

*Landform:* Depressions on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Parent material:* Loamy alluvium

**Typical profile**

*A1 - 0 to 6 inches:* fine sandy loam

*A2 - 6 to 13 inches:* fine sandy loam

*Btg - 13 to 45 inches:* sandy clay loam

*2R - 45 to 49 inches:* unweathered bedrock

**Properties and qualities**

*Slope:* 0 to 1 percent

*Depth to restrictive feature:* 40 to 60 inches to lithic bedrock

*Natural drainage class:* Very poorly drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately low to moderately high (0.06 to 0.20 in/hr)

*Depth to water table:* About 0 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* Frequent  
*Calcium carbonate, maximum in profile:* 15 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Moderate (about 6.4 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7w  
*Hydrologic Soil Group:* C/D  
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Loamy and clayey soils on stream terraces, flood plains, or in depressions (G156AC345FL)

#### **Description of Dania**

##### **Setting**

*Landform:* Depressions on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Parent material:* Herbaceous organic material over limestone

##### **Typical profile**

*Oa - 0 to 10 inches:* muck  
*2Cg - 10 to 12 inches:* loamy fine sand  
*2R - 12 to 16 inches:* unweathered bedrock

##### **Properties and qualities**

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* 8 to 20 inches to lithic bedrock  
*Natural drainage class:* Very poorly drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (2.00 to 20.00 in/hr)  
*Depth to water table:* About 0 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* Frequent  
*Calcium carbonate, maximum in profile:* 10 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Very low (about 2.6 inches)

##### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G156AC645FL)

## Minor Components

### Hallandale

*Percent of map unit:* 5 percent

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Other vegetative classification:* Wetland Hardwood Hammock  
(R156AY012FL), Sandy soils on flats of mesic or hydric lowlands  
(G156AC141FL)

### Gator

*Percent of map unit:* 5 percent

*Landform:* Depressions on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Other vegetative classification:* Freshwater Marshes and Ponds  
(R155XY010FL), Organic soils in depressions and on flood plains  
(G156AC645FL)

## 6—Riviera, limestone substratum-Copeland fine sands

### Map Unit Setting

*National map unit symbol:* 1jftf

*Elevation:* 10 to 30 feet

*Mean annual precipitation:* 46 to 54 inches

*Mean annual air temperature:* 70 to 77 degrees F

*Frost-free period:* 350 to 365 days

*Farmland classification:* Not prime farmland

### Map Unit Composition

*Riviera, limestone substratum, and similar soils:* 65 percent

*Copeland and similar soils:* 30 percent

*Minor components:* 5 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Riviera, Limestone Substratum

#### Setting

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Parent material:* Sandy and loamy marine deposits

#### Typical profile

*A - 0 to 6 inches:* fine sand

*Eg - 6 to 32 inches:* fine sand

*Btg - 32 to 54 inches:* sandy clay loam

2R - 54 to 58 inches: unweathered bedrock

**Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* 40 to 70 inches to lithic bedrock  
*Natural drainage class:* Poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.60 to 6.00 in/hr)  
*Depth to water table:* About 0 to 12 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 4.4 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

**Description of Copeland**

**Setting**

*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Parent material:* Sandy and loamy marine deposits over limestone

**Typical profile**

*A1 - 0 to 6 inches:* fine sand  
*A2 - 6 to 14 inches:* fine sand  
*E - 14 to 18 inches:* fine sand  
*Btg - 18 to 24 inches:* sandy clay loam  
*2C - 24 to 30 inches:* silt loam, marl  
*2R - 30 to 34 inches:* unweathered bedrock

**Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* 20 to 50 inches to lithic bedrock  
*Natural drainage class:* Poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* About 0 to 6 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 15 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 3.4 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 3w

*Hydrologic Soil Group:* C/D

*Other vegetative classification:* Loamy and clayey soils on flats of hydric or mesic lowlands (G156AC341FL)

### **Minor Components**

#### **Boca**

*Percent of map unit:* 5 percent

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Dip, talf

*Down-slope shape:* Concave

*Across-slope shape:* Linear

*Other vegetative classification:* Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

## **7—Immokalee fine sand, 0 to 2 percent slopes**

### **Map Unit Setting**

*National map unit symbol:* 2s3lk

*Elevation:* 10 to 100 feet

*Mean annual precipitation:* 38 to 68 inches

*Mean annual air temperature:* 68 to 79 degrees F

*Frost-free period:* 325 to 365 days

*Farmland classification:* Farmland of unique importance

### **Map Unit Composition**

*Immokalee and similar soils:* 90 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Immokalee**

#### **Setting**

*Landform:* Flats on marine terraces

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Sandy marine deposits

#### **Typical profile**

*A - 0 to 6 inches:* fine sand

*E - 6 to 35 inches:* fine sand

*Bh - 35 to 54 inches:* fine sand

*BC - 54 to 80 inches:* loamy fine sand

#### **Properties and qualities**

*Slope:* 0 to 2 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Poorly drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.57 to 1.98 in/hr)  
*Depth to water table:* About 6 to 18 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 5.3 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* B/D  
*Other vegetative classification:* South Florida Flatwoods  
(R155XY003FL), Sandy soils on flats of mesic or hydric lowlands  
(G155XB141FL)

#### **Minor Components**

##### **Basinger**

*Percent of map unit:* 5 percent  
*Landform:* Flats on marine terraces, drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Linear, concave  
*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

##### **Margate**

*Percent of map unit:* 3 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear, concave  
*Other vegetative classification:* Sandy soils on stream terraces, flood plains, or in depressions (G156AC145FL)

##### **Placid, depressional**

*Percent of map unit:* 2 percent  
*Landform:* Depressions on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Concave, convex  
*Across-slope shape:* Concave, linear  
*Other vegetative classification:* Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)

## **8—Myakka fine sand, 0 to 2 percent slopes**

#### **Map Unit Setting**

*National map unit symbol:* 2s3lg

*Elevation:* 10 to 130 feet  
*Mean annual precipitation:* 38 to 62 inches  
*Mean annual air temperature:* 64 to 75 degrees F  
*Frost-free period:* 300 to 365 days  
*Farmland classification:* Farmland of unique importance

### **Map Unit Composition**

*Myakka and similar soils:* 90 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Myakka**

#### **Setting**

*Landform:* Flatwoods on marine terraces  
*Landform position (three-dimensional):* Tread, talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Sandy marine deposits

#### **Typical profile**

*A - 0 to 6 inches:* fine sand  
*E - 6 to 20 inches:* fine sand  
*Bh - 20 to 36 inches:* fine sand  
*C - 36 to 80 inches:* fine sand

#### **Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Poorly drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.57 to 5.95 in/hr)  
*Depth to water table:* About 6 to 18 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 3.9 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* South Florida Flatwoods  
(R155XY003FL), Sandy soils on flats of mesic or hydric lowlands  
(G155XB141FL)

### **Minor Components**

#### **Basinger**

*Percent of map unit:* 5 percent  
*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear, concave  
*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

**Eaugallie, non-hydric**

*Percent of map unit:* 4 percent  
*Landform:* Flatwoods on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Other vegetative classification:* South Florida Flatwoods (R155XY003FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

**Placid, depressional**

*Percent of map unit:* 1 percent  
*Landform:* Depressions on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Concave, convex  
*Across-slope shape:* Concave, linear  
*Other vegetative classification:* Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)

**10—Oldsmar fine sand, limestone substratum**

**Map Unit Setting**

*National map unit symbol:* 1jftj  
*Elevation:* 20 to 100 feet  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Farmland of unique importance

**Map Unit Composition**

*Oldsmar, limestone substratum, and similar soils:* 90 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Oldsmar, Limestone Substratum**

**Setting**

*Landform:* Flatwoods on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Sandy and loamy marine deposits over limestone

**Typical profile**

*A - 0 to 4 inches:* fine sand  
*E/Bw - 4 to 35 inches:* fine sand

*Bh - 35 to 50 inches:* fine sand  
*Btg - 50 to 60 inches:* fine sandy loam  
*2R - 60 to 64 inches:* unweathered bedrock

**Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* 60 to 72 inches to lithic bedrock  
*Natural drainage class:* Poorly drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* About 6 to 18 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 5.3 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* C/D  
*Other vegetative classification:* South Florida Flatwoods  
(R156AY003FL), Sandy soils on flats of mesic or hydric lowlands  
(G156AC141FL)

**Minor Components**

**Malabar**

*Percent of map unit:* 4 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Other vegetative classification:* Slough (R155XY011FL), Sandy soils  
on flats of mesic or hydric lowlands (G156AC141FL)

**Pineda, limestone substratum**

*Percent of map unit:* 3 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Other vegetative classification:* Wetland Hardwood Hammock  
(R156AY012FL), Sandy over loamy soils on flats of hydric or  
mesic lowlands (G156AC241FL)

**Riviera, limestone substratum**

*Percent of map unit:* 3 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave

*Other vegetative classification:* Wetland Hardwood Hammock (R156AY012FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

## 11—Hallandale fine sand

### Map Unit Setting

*National map unit symbol:* 1jftk  
*Elevation:* 20 to 60 feet  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Not prime farmland

### Map Unit Composition

*Hallandale and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Hallandale

#### Setting

*Landform:* Flats on marine terraces  
*Landform position (three-dimensional):* Interfluve, talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Sandy marine deposits over limestone

#### Typical profile

*A - 0 to 3 inches:* fine sand  
*E/Bw - 3 to 12 inches:* fine sand  
*2R - 12 to 16 inches:* unweathered bedrock

#### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* 7 to 20 inches to lithic bedrock  
*Natural drainage class:* Poorly drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (2.00 to 20.00 in/hr)  
*Depth to water table:* About 6 to 18 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Very low (about 0.9 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* A/D

*Other vegetative classification:* South Florida Flatwoods  
(R156AY003FL), Sandy soils on flats of mesic or hydric lowlands  
(G156AC141FL)

### **Minor Components**

#### **Pineda, limestone substratum**

*Percent of map unit:* 8 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Other vegetative classification:* Wetland Hardwood Hammock  
(R156AY012FL), Sandy over loamy soils on flats of hydric or  
mesic lowlands (G156AC241FL)

#### **Riviera, limestone substratum**

*Percent of map unit:* 7 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Other vegetative classification:* Wetland Hardwood Hammock  
(R156AY012FL), Sandy over loamy soils on flats of hydric or  
mesic lowlands (G156AC241FL)

## **14—Pineda fine sand, limestone substratum**

### **Map Unit Setting**

*National map unit symbol:* 1jftl  
*Elevation:* 20 to 100 feet  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Farmland of local importance

### **Map Unit Composition**

*Pineda, limestone substratum, and similar soils:* 88 percent  
*Minor components:* 12 percent  
*Estimates are based on observations, descriptions, and transects of the  
mapunit.*

### **Description of Pineda, Limestone Substratum**

#### **Setting**

*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Parent material:* Sandy and loamy marine deposits over limestone

#### **Typical profile**

*A - 0 to 4 inches:* fine sand

*E - 4 to 30 inches: fine sand*  
*Btg - 30 to 55 inches: sandy clay loam*  
*R - 55 to 59 inches: unweathered bedrock*

**Properties and qualities**

*Slope: 0 to 2 percent*  
*Depth to restrictive feature: 40 to 80 inches to lithic bedrock*  
*Natural drainage class: Poorly drained*  
*Runoff class: Very high*  
*Capacity of the most limiting layer to transmit water (Ksat):*  
*Moderately low to moderately high (0.06 to 0.20 in/hr)*  
*Depth to water table: About 0 to 12 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum in profile: 4.0*  
*Available water storage in profile: Low (about 4.5 inches)*

**Interpretive groups**

*Land capability classification (irrigated): None specified*  
*Land capability classification (nonirrigated): 3w*  
*Hydrologic Soil Group: C/D*  
*Other vegetative classification: Wetland Hardwood Hammock*  
*(R156AY012FL), Sandy over loamy soils on flats of hydric or*  
*mesic lowlands (G156AC241FL)*

**Minor Components**

**Boca**

*Percent of map unit: 4 percent*  
*Landform: Drainageways on marine terraces*  
*Landform position (three-dimensional): Talf, dip*  
*Down-slope shape: Concave*  
*Across-slope shape: Linear*  
*Other vegetative classification: Scrub Cypress (R156AY013FL),*  
*Sandy over loamy soils on flats of hydric or mesic lowlands*  
*(G156AC241FL)*

**Hallandale**

*Percent of map unit: 4 percent*  
*Landform: Drainageways on marine terraces*  
*Landform position (three-dimensional): Dip*  
*Down-slope shape: Linear*  
*Across-slope shape: Concave*  
*Other vegetative classification: Wetland Hardwood Hammock*  
*(R156AY012FL), Sandy soils on flats of mesic or hydric lowlands*  
*(G156AC141FL)*

**Malabar**

*Percent of map unit: 4 percent*  
*Landform: Drainageways on marine terraces*  
*Landform position (three-dimensional): Dip*  
*Down-slope shape: Linear*  
*Across-slope shape: Concave*

*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

## **15—Pomello fine sand, 0 to 2 percent slopes**

### **Map Unit Setting**

*National map unit symbol:* 2tzw1  
*Elevation:* 0 to 130 feet  
*Mean annual precipitation:* 42 to 60 inches  
*Mean annual air temperature:* 68 to 77 degrees F  
*Frost-free period:* 325 to 365 days  
*Farmland classification:* Farmland of unique importance

### **Map Unit Composition**

*Pomello and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Pomello**

#### **Setting**

*Landform:* Flatwoods on marine terraces, ridges on marine terraces  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Side slope, tread, talf  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Parent material:* Sandy marine deposits

#### **Typical profile**

*A - 0 to 2 inches:* fine sand  
*E - 2 to 46 inches:* fine sand  
*Bh - 46 to 80 inches:* fine sand

#### **Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Moderately well drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):* High (2.00 to 6.00 in/hr)  
*Depth to water table:* About 24 to 42 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 2.0  
*Available water storage in profile:* Low (about 3.6 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6s  
*Hydrologic Soil Group:* A  
*Ecological site:* Sand pine scrub (R155XY001FL)

*Other vegetative classification:* Sand Pine Scrub (R155XY001FL),  
Sandy soils on rises and knolls of mesic uplands (G155XB131FL)

### **Minor Components**

#### **Duette**

*Percent of map unit:* 5 percent  
*Landform:* Flatwoods on marine terraces, ridges on marine terraces  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Side slope, tread, talf  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Ecological site:* Sand pine scrub (R155XY001FL)  
*Other vegetative classification:* Sandy soils on rises, knolls, and  
ridges of mesic uplands (G155XB121FL)

#### **Immokalee**

*Percent of map unit:* 5 percent  
*Landform:* Flatwoods on marine terraces, ridges on marine terraces  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Side slope, tread, talf  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Ecological site:* South florida flatwoods (R155XY003FL)  
*Other vegetative classification:* Sandy soils on flats of mesic or hydric  
lowlands (G155XB141FL)

#### **Jonathan**

*Percent of map unit:* 3 percent  
*Landform:* Flatwoods on marine terraces, ridges on marine terraces  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Side slope, tread, talf  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Ecological site:* South florida flatwoods (R156BY003FL)  
*Other vegetative classification:* Sandy soils on rises, knolls, and  
ridges of mesic uplands (G155XB121FL)

#### **Tavares**

*Percent of map unit:* 2 percent  
*Landform:* Flatwoods on marine terraces, ridges on marine terraces  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Side slope, tread, talf  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Ecological site:* Longleaf pine-turkey oak hills (R155XY002FL)  
*Other vegetative classification:* Sandy soils on rises, knolls, and  
ridges of mesic uplands (G155XB121FL)

## **16—Oldsmar fine sand, 0 to 2 percent slopes**

### **Map Unit Setting**

*National map unit symbol:* 2sm4t

*Elevation:* 10 to 70 feet  
*Mean annual precipitation:* 38 to 64 inches  
*Mean annual air temperature:* 68 to 79 degrees F  
*Frost-free period:* 300 to 365 days  
*Farmland classification:* Farmland of unique importance

### **Map Unit Composition**

*Oldsmar, fine sand, and similar soils:* 90 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Oldsmar, Fine Sand**

#### **Setting**

*Landform:* Flatwoods on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Sandy and loamy marine deposits

#### **Typical profile**

*A - 0 to 4 inches:* fine sand  
*E - 4 to 35 inches:* fine sand  
*Bh - 35 to 50 inches:* loamy fine sand  
*Btg - 50 to 80 inches:* sandy clay loam

#### **Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Poorly drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* About 6 to 18 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 4.6 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* South Florida Flatwoods  
(R155XY003FL), Sandy soils on flats of mesic or hydric lowlands  
(G155XB141FL)

### **Minor Components**

#### **Pineda**

*Percent of map unit:* 5 percent  
*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear, concave  
*Other vegetative classification:* Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

**Boca, nonhydric**

*Percent of map unit:* 3 percent  
*Landform:* Flats on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Other vegetative classification:* South Florida Flatwoods (R156BY003FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156BC241FL)

**Holopaw**

*Percent of map unit:* 2 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear, concave  
*Other vegetative classification:* Slough (R156BY011FL), Sandy soils on flats of mesic or hydric lowlands (G156BC141FL)

**17—Basinger fine sand, 0 to 2 percent slopes**

**Map Unit Setting**

*National map unit symbol:* 2svym  
*Elevation:* 0 to 20 feet  
*Mean annual precipitation:* 38 to 62 inches  
*Mean annual air temperature:* 68 to 77 degrees F  
*Frost-free period:* 300 to 365 days  
*Farmland classification:* Farmland of unique importance

**Map Unit Composition**

*Basinger and similar soils:* 90 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Basinger**

**Setting**

*Landform:* Drainageways  
*Landform position (three-dimensional):* Tread, dip  
*Down-slope shape:* Concave, convex  
*Across-slope shape:* Concave, linear  
*Parent material:* Sandy marine deposits

**Typical profile**

*Ag - 0 to 2 inches:* fine sand  
*Eg - 2 to 18 inches:* fine sand

*Bh/E - 18 to 36 inches: fine sand*

*Cg - 36 to 80 inches: fine sand*

**Properties and qualities**

*Slope: 0 to 2 percent*

*Depth to restrictive feature: More than 80 inches*

*Natural drainage class: Poorly drained*

*Runoff class: Very high*

*Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)*

*Depth to water table: About 2 to 18 inches*

*Frequency of flooding: None*

*Frequency of ponding: None*

*Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)*

*Sodium adsorption ratio, maximum in profile: 4.0*

*Available water storage in profile: Low (about 5.6 inches)*

**Interpretive groups**

*Land capability classification (irrigated): None specified*

*Land capability classification (nonirrigated): 4w*

*Hydrologic Soil Group: A/D*

*Other vegetative classification: Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)*

**Minor Components**

**Eaugallie**

*Percent of map unit: 4 percent*

*Landform: Flats on marine terraces*

*Landform position (three-dimensional): Tread, talf*

*Down-slope shape: Convex*

*Across-slope shape: Linear*

*Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)*

**Margate**

*Percent of map unit: 3 percent*

*Landform: Drainageways on marine terraces*

*Landform position (three-dimensional): Tread, dip*

*Down-slope shape: Convex, linear*

*Across-slope shape: Linear, concave*

*Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G156AC145FL)*

**Placid, depressional**

*Percent of map unit: 3 percent*

*Landform: Depressions on marine terraces*

*Landform position (three-dimensional): Tread, dip*

*Down-slope shape: Concave, convex*

*Across-slope shape: Concave, linear*

*Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)*

## 18—Riviera fine sand, limestone substratum

### Map Unit Setting

*National map unit symbol:* 1jftq  
*Elevation:* 10 to 30 feet  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Farmland of local importance

### Map Unit Composition

*Riviera, limestone substratum, and similar soils:* 88 percent  
*Minor components:* 12 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Riviera, Limestone Substratum

#### Setting

*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Parent material:* Sandy and loamy marine deposits

#### Typical profile

*A - 0 to 6 inches:* fine sand  
*E/Bw - 6 to 32 inches:* fine sand  
*Btg - 32 to 54 inches:* sandy clay loam  
*2R - 54 to 58 inches:* unweathered bedrock

#### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* 40 to 70 inches to lithic bedrock  
*Natural drainage class:* Poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.60 to 6.00 in/hr)  
*Depth to water table:* About 0 to 12 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 4.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Wetland Hardwood Hammock (R156AY012FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

## Minor Components

### Boca

*Percent of map unit:* 4 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip, talf  
*Down-slope shape:* Concave  
*Across-slope shape:* Linear  
*Other vegetative classification:* Wetland Hardwood Hammock (R156AY012FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

### Copeland

*Percent of map unit:* 4 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Other vegetative classification:* Loamy and clayey soils on flats of hydric or mesic lowlands (G156AC341FL)

### Holopaw

*Percent of map unit:* 4 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

## 20—Ft. Drum and Malabar, high, fine sands

### Map Unit Setting

*National map unit symbol:* 1jfr  
*Elevation:* 20 to 100 feet  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Farmland of unique importance

### Map Unit Composition

*Ft. drum and similar soils:* 45 percent  
*Malabar, high, and similar soils:* 45 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Malabar, High

#### Setting

*Landform:* Flats on marine terraces  
*Landform position (three-dimensional):* Talf

*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Sandy and loamy marine deposits

**Typical profile**

*A - 0 to 2 inches:* fine sand  
*E - 2 to 15 inches:* fine sand  
*Bw - 15 to 29 inches:* fine sand  
*E' - 29 to 55 inches:* fine sand  
*Btg - 55 to 72 inches:* sandy clay loam  
*Cg - 72 to 80 inches:* fine sand

**Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Poorly drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* About 6 to 18 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 3.7 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Cabbage Palm Flatwoods  
(R155XY005FL), Sandy soils on flats of mesic or hydric lowlands  
(G156AC141FL)

**Description of Ft. Drum**

**Setting**

*Landform:* Flats on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Sandy marine deposits

**Typical profile**

*A - 0 to 5 inches:* fine sand  
*Bk - 5 to 20 inches:* fine sand  
*C - 20 to 80 inches:* fine sand

**Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Poorly drained  
*Runoff class:* High

*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (6.00 to 20.00 in/hr)  
*Depth to water table:* About 6 to 18 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 30 percent  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 40.0  
*Available water storage in profile:* Low (about 4.2 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Cabbage Palm Flatwoods (R155XY005FL), Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

#### **Minor Components**

##### **Basinger**

*Percent of map unit:* 4 percent  
*Landform:* — error in exists on —  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

##### **Holopaw**

*Percent of map unit:* 3 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

##### **Pineda**

*Percent of map unit:* 3 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Other vegetative classification:* Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

## **21—Boca fine sand, 0 to 2 percent slopes**

#### **Map Unit Setting**

*National map unit symbol:* 2svz8  
*Elevation:* 0 to 60 feet

*Mean annual precipitation:* 38 to 62 inches  
*Mean annual air temperature:* 68 to 77 degrees F  
*Frost-free period:* 300 to 365 days  
*Farmland classification:* Farmland of local importance

### **Map Unit Composition**

*Boca and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Boca**

#### **Setting**

*Landform:* — error in exists on —  
*Landform position (three-dimensional):* Tread, talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Sandy and loamy marine deposits over marl derived from limestone

#### **Typical profile**

*A - 0 to 3 inches:* fine sand  
*E - 3 to 14 inches:* fine sand  
*E/B - 14 to 25 inches:* fine sand  
*Btg - 25 to 30 inches:* fine sandy loam  
*2R - 30 to 40 inches:* bedrock

#### **Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* 8 to 40 inches to lithic bedrock  
*Natural drainage class:* Poorly drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* About 0 to 12 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 10 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Very low (about 1.7 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3w  
*Hydrologic Soil Group:* A/D  
*Ecological site:* South florida flatwoods (R155XY003FL)  
*Other vegetative classification:* South Florida Flatwoods (R155XY003FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)

## Minor Components

### Hallandale

*Percent of map unit:* 7 percent

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Tread, dip

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear, concave

*Ecological site:* Slough (R155XY011FL)

*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

### Wabasso

*Percent of map unit:* 6 percent

*Landform:* — error in exists on —

*Landform position (three-dimensional):* Tread, talf

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Ecological site:* South florida flatwoods (R155XY003FL)

*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

### Ft. drum

*Percent of map unit:* 2 percent

*Landform:* Flats on marine terraces

*Landform position (three-dimensional):* Tread, talf

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

## 22—Chobee, Winder, and Gator soils, depressional

### Map Unit Setting

*National map unit symbol:* 1jftt

*Mean annual precipitation:* 46 to 54 inches

*Mean annual air temperature:* 70 to 77 degrees F

*Frost-free period:* 350 to 365 days

*Farmland classification:* Farmland of unique importance

### Map Unit Composition

*Gator and similar soils:* 30 percent

*Winder and similar soils:* 30 percent

*Chobee and similar soils:* 30 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Chobee

#### Setting

*Landform:* Depressions on marine terraces

*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Parent material:* Loamy alluvium

**Typical profile**

*A - 0 to 13 inches:* fine sandy loam  
*Btg - 13 to 47 inches:* sandy clay loam  
*Cg - 47 to 80 inches:* loamy fine sand

**Properties and qualities**

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Very poorly drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* About 0 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* Frequent  
*Calcium carbonate, maximum in profile:* 15 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* High (about 9.1 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7w  
*Hydrologic Soil Group:* C/D  
*Other vegetative classification:* Freshwater Marshes and Ponds  
(R155XY010FL), Loamy and clayey soils on stream terraces,  
flood plains, or in depressions (G156AC345FL)

**Description of Winder**

**Setting**

*Landform:* Marshes on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear, concave  
*Across-slope shape:* Linear  
*Parent material:* Sandy and loamy marine deposits

**Typical profile**

*A - 0 to 5 inches:* fine sand  
*Eg - 5 to 15 inches:* fine sand  
*Btg1 - 15 to 18 inches:* fine sandy loam  
*Btg2 - 18 to 50 inches:* sandy clay loam  
*2Ck - 50 to 80 inches:* fine sandy loam

**Properties and qualities**

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Very poorly drained  
*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately low to moderately high (0.06 to 0.20 in/hr)

*Depth to water table:* About 0 inches

*Frequency of flooding:* None

*Frequency of ponding:* Frequent

*Calcium carbonate, maximum in profile:* 15 percent

*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 4.0

*Available water storage in profile:* Moderate (about 6.2 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7w

*Hydrologic Soil Group:* C/D

*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Loamy and clayey soils on stream terraces, flood plains, or in depressions (G156AC345FL)

#### **Description of Gator**

##### **Setting**

*Landform:* Depressions on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Parent material:* Herbaceous organic material over loamy and sandy marine deposits

##### **Typical profile**

*Oa - 0 to 25 inches:* muck

*Cg - 25 to 80 inches:* fine sandy loam

##### **Properties and qualities**

*Slope:* 0 to 1 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Very poorly drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately high (0.00 to 0.20 in/hr)

*Depth to water table:* About 0 inches

*Frequency of flooding:* None

*Frequency of ponding:* Frequent

*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 4.0

*Available water storage in profile:* Very high (about 13.3 inches)

##### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7w

*Hydrologic Soil Group:* C/D

*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G156AC645FL)

## Minor Components

### Riviera

*Percent of map unit:* 5 percent

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Other vegetative classification:* Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

### Pineda

*Percent of map unit:* 5 percent

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Other vegetative classification:* Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

## 23—Holopaw and Okeelanta soils, depressional

### Map Unit Setting

*National map unit symbol:* 1jftv

*Mean annual precipitation:* 46 to 54 inches

*Mean annual air temperature:* 70 to 77 degrees F

*Frost-free period:* 350 to 365 days

*Farmland classification:* Not prime farmland

### Map Unit Composition

*Holopaw and similar soils:* 60 percent

*Okeelanta and similar soils:* 30 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Holopaw

#### Setting

*Landform:* Marshes on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Parent material:* Sandy and loamy marine deposits

#### Typical profile

*A - 0 to 5 inches:* fine sand

*Eg - 5 to 57 inches:* fine sand

*Btg - 57 to 62 inches:* fine sandy loam

*Cg - 62 to 80 inches:* loamy fine sand

### **Properties and qualities**

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Very poorly drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.20 to 2.00 in/hr)  
*Depth to water table:* About 0 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* Frequent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 4.4 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Freshwater Marshes and Ponds  
(R155XY010FL), Sandy soils on stream terraces, flood plains, or  
in depressions (G156AC145FL)

### **Description of Okeelanta**

#### **Setting**

*Landform:* Depressions on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Parent material:* Herbaceous organic material over sandy marine  
deposits

#### **Typical profile**

*Oa - 0 to 20 inches:* muck  
*Cg1 - 20 to 52 inches:* fine sand  
*Cg2 - 52 to 80 inches:* fine sandy loam

### **Properties and qualities**

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Very poorly drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* About 0 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* Frequent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* High (about 9.3 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated): 7w*

*Hydrologic Soil Group: A/D*

*Other vegetative classification: Freshwater Marshes and Ponds  
(R155XY010FL), Organic soils in depressions and on flood plains  
(G156AC645FL)*

### **Minor Components**

#### **Gator**

*Percent of map unit: 5 percent*

*Landform: Depressions on marine terraces*

*Landform position (three-dimensional): Dip*

*Down-slope shape: Concave*

*Across-slope shape: Concave*

*Other vegetative classification: Freshwater Marshes and Ponds  
(R155XY010FL), Organic soils in depressions and on flood plains  
(G156AC645FL)*

#### **Basinger**

*Percent of map unit: 5 percent*

*Landform: — error in exists on —*

*Landform position (three-dimensional): Dip*

*Down-slope shape: Linear*

*Across-slope shape: Concave*

*Other vegetative classification: Slough (R155XY011FL), Sandy soils  
on flats of mesic or hydric lowlands (G156AC141FL)*

## **25—Boca, Riviera, limestone substratum, and Copeland fine sands, depressional**

### **Map Unit Setting**

*National map unit symbol: 1jftw*

*Elevation: 0 to 30 feet*

*Mean annual precipitation: 46 to 54 inches*

*Mean annual air temperature: 70 to 77 degrees F*

*Frost-free period: 350 to 365 days*

*Farmland classification: Not prime farmland*

### **Map Unit Composition**

*Boca and similar soils: 30 percent*

*Copeland and similar soils: 30 percent*

*Riviera, limestone substratum, and similar soils: 30 percent*

*Minor components: 10 percent*

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Riviera, Limestone Substratum**

#### **Setting**

*Landform: Depressions on marine terraces*

*Landform position (three-dimensional): Dip*

*Down-slope shape: Concave*

*Across-slope shape:* Concave  
*Parent material:* Sandy and loamy marine deposits

**Typical profile**

*A - 0 to 6 inches:* fine sand  
*Eg - 6 to 32 inches:* fine sand  
*Btg - 32 to 54 inches:* sandy clay loam  
*2R - 54 to 58 inches:* unweathered bedrock

**Properties and qualities**

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* 40 to 70 inches to lithic bedrock  
*Natural drainage class:* Very poorly drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.20 to 6.00 in/hr)  
*Depth to water table:* About 0 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* Frequent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 4.1 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Sandy over loamy soils on stream terraces, flood plains, or in depressions (G156AC245FL)

**Description of Copeland**

**Setting**

*Landform:* Depressions on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Parent material:* Sandy and loamy marine deposits over limestone

**Typical profile**

*A1 - 0 to 6 inches:* fine sand  
*A2 - 6 to 14 inches:* fine sand  
*E - 14 to 18 inches:* fine sand  
*Btg - 18 to 24 inches:* sandy clay loam  
*2C - 24 to 30 inches:* silt loam, marl  
*2R - 30 to 34 inches:* unweathered bedrock

**Properties and qualities**

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* 20 to 50 inches to lithic bedrock  
*Natural drainage class:* Very poorly drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* About 0 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* Frequent  
*Calcium carbonate, maximum in profile:* 15 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 3.4 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7w  
*Hydrologic Soil Group:* C/D  
*Other vegetative classification:* Loamy and clayey soils on stream terraces, flood plains, or in depressions (G156AC345FL)

#### **Description of Boca**

##### **Setting**

*Landform:* Depressions on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Parent material:* Sandy and loamy marine deposits over limestone

##### **Typical profile**

*A - 0 to 4 inches:* fine sand  
*E - 4 to 26 inches:* fine sand  
*Btg - 26 to 30 inches:* fine sandy loam  
*R - 30 to 34 inches:* unweathered bedrock

##### **Properties and qualities**

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* 24 to 40 inches to lithic bedrock  
*Natural drainage class:* Very poorly drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* About 0 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* Frequent  
*Calcium carbonate, maximum in profile:* 10 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Very low (about 1.7 inches)

##### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Sandy over loamy soils on stream terraces, flood plains, or in depressions (G156AC245FL)

## Minor Components

### Basinger

*Percent of map unit:* 3 percent

*Landform:* — error in exists on —

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

### Dania

*Percent of map unit:* 3 percent

*Landform:* Depressions on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Other vegetative classification:* Organic soils in depressions and on flood plains (G156AC645FL)

### Hallandale

*Percent of map unit:* 2 percent

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

### Gator

*Percent of map unit:* 2 percent

*Landform:* Depressions on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Other vegetative classification:* Organic soils in depressions and on flood plains (G156AC645FL)

## 27—Holopaw fine sand, 0 to 2 percent slopes

### Map Unit Setting

*National map unit symbol:* 2vbpd

*Elevation:* 0 to 130 feet

*Mean annual precipitation:* 37 to 62 inches

*Mean annual air temperature:* 68 to 77 degrees F

*Frost-free period:* 300 to 365 days

*Farmland classification:* Farmland of unique importance

### Map Unit Composition

*Holopaw and similar soils:* 85 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Holopaw**

#### **Setting**

*Landform:* — error in exists on —  
*Landform position (three-dimensional):* Tread, talf, dip  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear, concave  
*Parent material:* Sandy and loamy marine deposits

#### **Typical profile**

*A - 0 to 6 inches:* fine sand  
*Eg - 6 to 42 inches:* fine sand  
*Btg - 42 to 60 inches:* fine sandy loam  
*Cg - 60 to 80 inches:* loamy sand

#### **Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* High (2.00 to 6.00 in/hr)  
*Depth to water table:* About 0 to 12 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 5 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 4.5 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

### **Minor Components**

#### **Basinger**

*Percent of map unit:* 6 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Tread, dip  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear, concave

#### **Oldsmar**

*Percent of map unit:* 5 percent  
*Landform:* Flats on marine terraces  
*Landform position (three-dimensional):* Tread, talf  
*Down-slope shape:* Convex

*Across-slope shape:* Linear

**Boca**

*Percent of map unit:* 3 percent

*Landform:* — error in exists on —

*Landform position (three-dimensional):* Tread, talf

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Ecological site:* South florida flatwoods (R155XY003FL)

*Other vegetative classification:* Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)

**Riviera**

*Percent of map unit:* 1 percent

*Landform:* Depressions on marine terraces

*Landform position (three-dimensional):* Tread, dip

*Down-slope shape:* Concave, convex

*Across-slope shape:* Concave, linear

**28—Pineda and Riviera fine sands**

**Map Unit Setting**

*National map unit symbol:* 1jfty

*Mean annual precipitation:* 46 to 54 inches

*Mean annual air temperature:* 70 to 77 degrees F

*Frost-free period:* 350 to 365 days

*Farmland classification:* Farmland of unique importance

**Map Unit Composition**

*Riviera and similar soils:* 46 percent

*Pineda and similar soils:* 46 percent

*Minor components:* 8 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Pineda**

**Setting**

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Parent material:* Sandy and loamy marine deposits

**Typical profile**

*A - 0 to 4 inches:* fine sand

*E/Bw - 4 to 30 inches:* fine sand

*Btg1 - 30 to 38 inches:* sandy clay loam

*Btg2 - 38 to 55 inches:* fine sandy loam

*Cg - 55 to 80 inches:* fine sand

**Properties and qualities**

*Slope:* 0 to 2 percent

*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* About 0 to 12 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 15 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 5.7 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3w  
*Hydrologic Soil Group:* C/D  
*Other vegetative classification:* Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

#### **Description of Riviera**

##### **Setting**

*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Parent material:* Sandy and loamy marine deposits

##### **Typical profile**

*A - 0 to 6 inches:* fine sand  
*Eg - 6 to 32 inches:* fine sand  
*Btg - 32 to 54 inches:* sandy clay loam  
*Cg - 54 to 80 inches:* fine sandy loam

##### **Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* About 0 to 12 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 5 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 5.6 inches)

##### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3w  
*Hydrologic Soil Group:* C/D

*Other vegetative classification:* Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

### **Minor Components**

#### **Boca**

*Percent of map unit:* 4 percent

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Dip, talf

*Down-slope shape:* Concave

*Across-slope shape:* Linear

*Other vegetative classification:* Wetland Hardwood Hammock (R156AY012FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

#### **Basinger**

*Percent of map unit:* 4 percent

*Landform:* — error in exists on —

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

## **29—Wabasso fine sand, 0 to 2 percent slopes**

### **Map Unit Setting**

*National map unit symbol:* 2svzg

*Elevation:* 0 to 130 feet

*Mean annual precipitation:* 38 to 62 inches

*Mean annual air temperature:* 68 to 77 degrees F

*Frost-free period:* 300 to 365 days

*Farmland classification:* Farmland of unique importance

### **Map Unit Composition**

*Wabasso and similar soils:* 85 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Wabasso**

#### **Setting**

*Landform:* Flatwoods on marine terraces, flats on marine terraces

*Landform position (three-dimensional):* Tread, talf

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Sandy and loamy marine deposits

#### **Typical profile**

*A - 0 to 4 inches:* fine sand

*E - 4 to 16 inches:* fine sand

*Bh - 16 to 28 inches:* fine sand

*E' - 28 to 32 inches: fine sand*  
*Btg - 32 to 48 inches: fine sandy loam*  
*Cg - 48 to 80 inches: loamy fine sand*

**Properties and qualities**

*Slope: 0 to 2 percent*  
*Depth to restrictive feature: More than 80 inches*  
*Natural drainage class: Poorly drained*  
*Runoff class: High*  
*Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)*  
*Depth to water table: About 6 to 18 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum in profile: 5 percent*  
*Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum in profile: 4.0*  
*Available water storage in profile: Low (about 5.3 inches)*

**Interpretive groups**

*Land capability classification (irrigated): None specified*  
*Land capability classification (nonirrigated): 3w*  
*Hydrologic Soil Group: A/D*  
*Other vegetative classification: South Florida Flatwoods (R155XY003FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)*

**Minor Components**

**Felda**

*Percent of map unit: 4 percent*  
*Landform: Flats on marine terraces, drainageways on marine terraces*  
*Landform position (three-dimensional): Tread, tal, dip*  
*Down-slope shape: Convex, linear*  
*Across-slope shape: Linear, concave*  
*Other vegetative classification: Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)*

**Riviera**

*Percent of map unit: 4 percent*  
*Landform: Flats on marine terraces, drainageways on marine terraces*  
*Landform position (three-dimensional): Tread, tal, dip*  
*Down-slope shape: Convex, linear*  
*Across-slope shape: Linear, concave*  
*Other vegetative classification: Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)*

**Basinger**

*Percent of map unit: 4 percent*  
*Landform: — error in exists on —*  
*Landform position (three-dimensional): Tread, dip*  
*Down-slope shape: Convex, linear*

*Across-slope shape:* Linear, concave

*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

#### **Boca**

*Percent of map unit:* 3 percent

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Tread, talf, dip

*Down-slope shape:* Convex, concave

*Across-slope shape:* Linear

*Other vegetative classification:* Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)

### **31—Hilolo, Jupiter, and Margate fine sands**

#### **Map Unit Setting**

*National map unit symbol:* 1jfv0

*Elevation:* 10 to 100 feet

*Mean annual precipitation:* 46 to 54 inches

*Mean annual air temperature:* 70 to 77 degrees F

*Frost-free period:* 350 to 365 days

*Farmland classification:* Not prime farmland

#### **Map Unit Composition**

*Hilolo and similar soils:* 30 percent

*Margate and similar soils:* 30 percent

*Jupiter and similar soils:* 30 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### **Description of Jupiter**

##### **Setting**

*Landform:* Flats on marine terraces

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Sandy marine deposits over limestone

##### **Typical profile**

*A - 0 to 4 inches:* fine sand

*E - 4 to 10 inches:* fine sand

*2R - 10 to 14 inches:* unweathered bedrock

##### **Properties and qualities**

*Slope:* 0 to 1 percent

*Depth to restrictive feature:* 10 to 20 inches to lithic bedrock

*Natural drainage class:* Poorly drained

*Runoff class:* High

*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (2.00 to 20.00 in/hr)

*Depth to water table:* About 6 to 18 inches

*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Very low (about 1.5 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Upland Hardwood Hammock  
(R155XY008FL), Sandy soils on flats of mesic or hydric lowlands  
(G156AC141FL)

**Description of Margate**

**Setting**

*Landform:* Flats on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Sandy marine deposits over limestone

**Typical profile**

*A - 0 to 6 inches:* fine sand  
*E - 6 to 17 inches:* fine sand  
*Bw - 17 to 35 inches:* fine sand  
*2R - 35 to 39 inches:* unweathered bedrock

**Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* 20 to 40 inches to lithic bedrock  
*Natural drainage class:* Poorly drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (2.00 to 20.00 in/hr)  
*Depth to water table:* About 6 to 18 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Very low (about 1.9 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Upland Hardwood Hammock  
(R155XY008FL), Sandy soils on flats of mesic or hydric lowlands  
(G156AC141FL)

## Description of Hilolo

### Setting

*Landform:* Flats on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Sandy and loamy marine deposits

### Typical profile

*A - 0 to 9 inches:* fine sand  
*Eg - 9 to 12 inches:* fine sand  
*Btkg1 - 12 to 20 inches:* fine sandy loam  
*Btkg2 - 20 to 35 inches:* sandy clay loam  
*Btkg3 - 35 to 50 inches:* fine sandy loam  
*B/Cg - 50 to 61 inches:* loamy fine sand  
*2R - 61 to 65 inches:* unweathered bedrock

### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* 40 to 80 inches to lithic bedrock  
*Natural drainage class:* Poorly drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* About 6 to 18 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 30 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Moderate (about 6.4 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3w  
*Hydrologic Soil Group:* B/D  
*Other vegetative classification:* Upland Hardwood Hammock  
(R155XY008FL), Loamy and clayey soils on flats of hydric or  
mesic lowlands (G156AC341FL)

## Minor Components

### Pineda

*Percent of map unit:* 5 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Other vegetative classification:* Slough (R155XY011FL), Sandy over  
loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

### **Holopaw**

*Percent of map unit:* 5 percent

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

## **32—Urban land**

### **Map Unit Setting**

*National map unit symbol:* 1jfv1

*Elevation:* 0 to 40 feet

*Mean annual precipitation:* 46 to 54 inches

*Mean annual air temperature:* 70 to 77 degrees F

*Frost-free period:* 350 to 365 days

*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Urban land:* 80 percent

*Minor components:* 20 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Urban Land**

#### **Setting**

*Landform:* Marine terraces

*Landform position (three-dimensional):* Interfluve, talf

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* No parent material

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Other vegetative classification:* Forage suitability group not assigned (G156AC999FL)

### **Minor Components**

#### **Boca**

*Percent of map unit:* 5 percent

*Landform:* Flats on marine terraces

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Other vegetative classification:* South Florida Flatwoods (R155XY003FL), Forage suitability group not assigned (G156AC999FL)

### **Hallandale**

*Percent of map unit:* 5 percent  
*Landform:* Flats on marine terraces  
*Landform position (three-dimensional):* Interfluve, talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Other vegetative classification:* South Florida Flatwoods (R156AY003FL), Forage suitability group not assigned (G156AC999FL)

### **Myakka**

*Percent of map unit:* 5 percent  
*Landform:* Flatwoods on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Other vegetative classification:* South Florida Flatwoods (R155XY003FL), Forage suitability group not assigned (G156AC999FL)

### **Immokalee**

*Percent of map unit:* 5 percent  
*Landform:* Flatwoods on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Other vegetative classification:* South Florida Flatwoods (R155XY003FL), Forage suitability group not assigned (G156AC999FL)

## **33—Urban land-Holopaw-Basinger complex**

### **Map Unit Setting**

*National map unit symbol:* 1jfv2  
*Elevation:* 20 to 100 feet  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Urban land:* 45 percent  
*Holopaw and similar soils:* 35 percent  
*Basinger and similar soils:* 20 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Urban Land**

#### **Setting**

*Landform:* Marine terraces  
*Landform position (three-dimensional):* Interfluve, talf

*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* No parent material

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Other vegetative classification:* Forage suitability group not assigned  
(G156AC999FL)

**Description of Holopaw**

**Setting**

*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Parent material:* Sandy and loamy marine deposits

**Typical profile**

*A - 0 to 5 inches:* fine sand  
*Eg - 5 to 57 inches:* fine sand  
*Btg - 57 to 62 inches:* fine sandy loam  
*Cg - 62 to 80 inches:* loamy fine sand

**Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.20 to 2.00 in/hr)  
*Depth to water table:* About 0 to 12 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 5.6 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Forage suitability group not assigned  
(G156AC999FL)

**Description of Basinger**

**Setting**

*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Parent material:* Sandy marine deposits

### Typical profile

*A - 0 to 3 inches: fine sand*  
*E - 3 to 25 inches: fine sand*  
*Bh/E - 25 to 44 inches: fine sand*  
*C - 44 to 80 inches: fine sand*

### Properties and qualities

*Slope: 0 to 2 percent*  
*Depth to restrictive feature: More than 80 inches*  
*Natural drainage class: Poorly drained*  
*Runoff class: Very high*  
*Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)*  
*Depth to water table: About 0 to 12 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum in profile: 4.0*  
*Available water storage in profile: Low (about 5.6 inches)*

### Interpretive groups

*Land capability classification (irrigated): None specified*  
*Land capability classification (nonirrigated): 4w*  
*Hydrologic Soil Group: A/D*  
*Other vegetative classification: Forage suitability group not assigned (G156AC999FL)*

## 34—Urban land-Immokalee-Oldsmar, limestone substratum, complex

### Map Unit Setting

*National map unit symbol: 1jfv3*  
*Mean annual precipitation: 46 to 54 inches*  
*Mean annual air temperature: 70 to 77 degrees F*  
*Frost-free period: 350 to 365 days*  
*Farmland classification: Not prime farmland*

### Map Unit Composition

*Urban land: 45 percent*  
*Immokalee and similar soils: 35 percent*  
*Oldsmar, limestone substratum, and similar soils: 20 percent*  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Urban Land

#### Setting

*Landform: Marine terraces*  
*Landform position (three-dimensional): Interfluve, talf*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Parent material: No parent material*

### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Other vegetative classification:* Forage suitability group not assigned  
(G156AC999FL)

### **Description of Immokalee**

#### **Setting**

*Landform:* Flatwoods on marine terraces

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Sandy marine deposits

#### **Typical profile**

*A - 0 to 6 inches:* fine sand

*E - 6 to 35 inches:* fine sand

*Bh - 35 to 49 inches:* fine sand

*C - 49 to 80 inches:* fine sand

#### **Properties and qualities**

*Slope:* 0 to 2 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Poorly drained

*Runoff class:* High

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* About 6 to 18 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 4.0

*Available water storage in profile:* Low (about 4.6 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 4w

*Hydrologic Soil Group:* B/D

*Other vegetative classification:* Forage suitability group not assigned  
(G156AC999FL)

### **Description of Oldsmar, Limestone Substratum**

#### **Setting**

*Landform:* Flatwoods on marine terraces

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Sandy and loamy marine deposits over limestone

#### **Typical profile**

*A - 0 to 4 inches:* fine sand

*E - 4 to 35 inches:* fine sand

*Bh - 35 to 50 inches:* fine sand

*Btg - 50 to 60 inches: fine sandy loam*  
*2R - 60 to 64 inches: unweathered bedrock*

**Properties and qualities**

*Slope: 0 to 2 percent*  
*Depth to restrictive feature: 60 to 72 inches to lithic bedrock*  
*Natural drainage class: Poorly drained*  
*Runoff class: High*  
*Capacity of the most limiting layer to transmit water (Ksat):*  
*Moderately low to moderately high (0.06 to 0.20 in/hr)*  
*Depth to water table: About 6 to 18 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum in profile: 4.0*  
*Available water storage in profile: Low (about 5.3 inches)*

**Interpretive groups**

*Land capability classification (irrigated): None specified*  
*Land capability classification (nonirrigated): 4w*  
*Hydrologic Soil Group: C/D*  
*Other vegetative classification: Forage suitability group not assigned*  
*(G156AC999FL)*

**35—Urban land-Aquents complex, organic substratum**

**Map Unit Setting**

*National map unit symbol: 1jfv4*  
*Mean annual precipitation: 46 to 54 inches*  
*Mean annual air temperature: 70 to 77 degrees F*  
*Frost-free period: 350 to 365 days*  
*Farmland classification: Not prime farmland*

**Map Unit Composition**

*Urban land: 70 percent*  
*Aquents and similar soils: 30 percent*  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Urban Land**

**Setting**

*Landform: Marine terraces*  
*Landform position (three-dimensional): Interfluve, talf*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Parent material: No parent material*

**Interpretive groups**

*Land capability classification (irrigated): None specified*  
*Other vegetative classification: Forage suitability group not assigned*  
*(G156AC999FL)*

## Description of Aquents

### Setting

*Landform:* Flats on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Sandy marine deposits over organic material

### Typical profile

*A - 0 to 12 inches:* fine sand  
*E - 12 to 38 inches:* fine sand  
*Oi - 38 to 80 inches:* muck

### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Somewhat poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (6.00 to 20.00 in/hr)  
*Depth to water table:* About 18 to 36 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* High (about 11.1 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 8  
*Hydrologic Soil Group:* A  
*Other vegetative classification:* Forage suitability group not assigned (G156AC999FL)

## 36—Udorthents, shaped

### Map Unit Setting

*National map unit symbol:* 1jfv5  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Not prime farmland

### Map Unit Composition

*Udorthents and similar soils:* 100 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

## Description of Udorthents

### Setting

*Landform:* Marine terraces  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Altered marine deposits

### Typical profile

*C - 0 to 18 inches:* fine sandy loam  
*2A/Eb - 18 to 37 inches:* gravelly fine sand  
*2Btgb - 37 to 47 inches:* fine sandy loam  
*2R - 47 to 51 inches:* unweathered bedrock

### Properties and qualities

*Slope:* 1 to 6 percent  
*Depth to restrictive feature:* 40 to 80 inches to lithic bedrock  
*Natural drainage class:* Somewhat poorly drained  
*Runoff class:* Very low  
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (2.00 to 20.00 in/hr)  
*Depth to water table:* About 18 to 36 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Very low (about 2.0 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 8  
*Hydrologic Soil Group:* A  
*Other vegetative classification:* Forage suitability group not assigned (G156AC999FL)

## 37—Tusawilla fine sand

### Map Unit Setting

*National map unit symbol:* 1jfv6  
*Elevation:* 20 to 100 feet  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Farmland of unique importance

### Map Unit Composition

*Tusawilla and similar soils:* 90 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

## Description of Tuscawilla

### Setting

*Landform:* Flats on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Sandy and loamy marine deposits

### Typical profile

*A - 0 to 6 inches:* fine sand  
*E - 6 to 14 inches:* fine sand  
*Bt - 14 to 50 inches:* sandy clay loam  
*C - 50 to 80 inches:* loamy fine sand

### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Poorly drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* About 6 to 18 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 20 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 5.3 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3w  
*Hydrologic Soil Group:* B/D  
*Other vegetative classification:* Wetland Hardwood Hammock  
(R156AY012FL), Loamy and clayey soils on flats of hydric or  
mesic lowlands (G156AC341FL)

## Minor Components

### Wabasso

*Percent of map unit:* 10 percent  
*Landform:* Flats on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Other vegetative classification:* South Florida Flatwoods  
(R155XY003FL), Sandy soils on flats of mesic or hydric lowlands  
(G156AC141FL)

## 38—Urban land-Matlacha-Boca complex

### Map Unit Setting

*National map unit symbol:* 1jfv7  
*Elevation:* 0 to 40 feet  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Not prime farmland

### Map Unit Composition

*Urban land:* 45 percent  
*Matlacha and similar soils:* 30 percent  
*Boca and similar soils:* 25 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Urban Land

#### Setting

*Landform:* Marine terraces  
*Landform position (three-dimensional):* Interfluve, talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* No parent material

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Other vegetative classification:* Forage suitability group not assigned (G156AC999FL)

### Description of Matlacha

#### Setting

*Landform:* Flats on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Sandy mine spoil or earthy fill

#### Typical profile

*C - 0 to 21 inches:* gravelly fine sand  
*2A/Eb - 21 to 51 inches:* fine sand  
*2Btgb - 51 to 54 inches:* fine sandy loam  
*2R - 54 to 58 inches:* unweathered bedrock

#### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* 40 to 80 inches to lithic bedrock  
*Natural drainage class:* Somewhat poorly drained  
*Runoff class:* High

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately high (0.20 to 0.60 in/hr)

*Depth to water table:* About 24 to 36 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 5 percent

*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 4.0

*Available water storage in profile:* Low (about 3.2 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6s

*Hydrologic Soil Group:* B

*Other vegetative classification:* Forage suitability group not assigned  
(G156AC999FL)

#### **Description of Boca**

##### **Setting**

*Landform:* Flats on marine terraces

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Sandy and loamy marine deposits over limestone

##### **Typical profile**

*A - 0 to 4 inches:* fine sand

*E - 4 to 26 inches:* fine sand

*Btg - 26 to 30 inches:* fine sandy loam

*2R - 30 to 34 inches:* unweathered bedrock

##### **Properties and qualities**

*Slope:* 0 to 2 percent

*Depth to restrictive feature:* 24 to 40 inches to lithic bedrock

*Natural drainage class:* Poorly drained

*Runoff class:* High

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* About 6 to 18 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 10 percent

*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 4.0

*Available water storage in profile:* Very low (about 1.7 inches)

##### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 3w

*Hydrologic Soil Group:* A/D

*Other vegetative classification:* Forage suitability group not assigned  
(G156AC999FL)

## 39—Satellite fine sand, 0 to 2 percent slopes

### Map Unit Setting

*National map unit symbol:* 2svzd  
*Elevation:* 0 to 80 feet  
*Mean annual precipitation:* 38 to 62 inches  
*Mean annual air temperature:* 68 to 77 degrees F  
*Frost-free period:* 300 to 365 days  
*Farmland classification:* Not prime farmland

### Map Unit Composition

*Satellite and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Satellite

#### Setting

*Landform:* Rises on marine terraces, flats on marine terraces  
*Landform position (three-dimensional):* Tread, rise, talf  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Parent material:* Sandy marine deposits

#### Typical profile

*A - 0 to 3 inches:* fine sand  
*C1 - 3 to 65 inches:* fine sand  
*C2 - 65 to 80 inches:* fine sand

#### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Somewhat poorly drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Very high  
(20.00 to 50.02 in/hr)  
*Depth to water table:* About 12 to 42 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Very low (about 2.5 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6s  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Sand Pine Scrub (R155XY001FL),  
Sandy soils on rises and knolls of mesic uplands (G155XB131FL)

## Minor Components

### Myakka

*Percent of map unit:* 6 percent

*Landform:* Flatwoods on marine terraces

*Landform position (three-dimensional):* Tread, talf

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

### Immokalee

*Percent of map unit:* 5 percent

*Landform:* Flatwoods on marine terraces

*Landform position (three-dimensional):* Tread, talf

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

### Basinger

*Percent of map unit:* 3 percent

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Tread, dip

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear, concave

*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

### Pompano

*Percent of map unit:* 1 percent

*Landform:* Flats on marine terraces, drainageways on marine terraces

*Landform position (three-dimensional):* Tread, talf, dip

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear, concave

*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G156BC141FL)

## 40—Durbin and Wulfert mucks, frequently flooded

### Map Unit Setting

*National map unit symbol:* 1jfv9

*Elevation:* 10 feet

*Mean annual precipitation:* 46 to 54 inches

*Mean annual air temperature:* 70 to 77 degrees F

*Frost-free period:* 350 to 365 days

*Farmland classification:* Not prime farmland

### Map Unit Composition

*Wulfert and similar soils:* 45 percent

*Durbin and similar soils:* 45 percent

*Minor components: 10 percent*  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Durbin**

#### **Setting**

*Landform: Tidal marshes on marine terraces*  
*Landform position (three-dimensional): Dip*  
*Down-slope shape: Linear*  
*Across-slope shape: Concave*  
*Parent material: Herbaceous organic material over sandy marine deposits*

#### **Typical profile**

*Oa - 0 to 63 inches: muck*  
*Cg - 63 to 80 inches: fine sand*

#### **Properties and qualities**

*Slope: 0 to 1 percent*  
*Depth to restrictive feature: More than 80 inches*  
*Natural drainage class: Very poorly drained*  
*Runoff class: Very high*  
*Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)*  
*Depth to water table: About 0 to 6 inches*  
*Frequency of flooding: Frequent*  
*Frequency of ponding: None*  
*Salinity, maximum in profile: Moderately saline to strongly saline (16.0 to 32.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum in profile: 40.0*  
*Available water storage in profile: Very high (about 13.8 inches)*

#### **Interpretive groups**

*Land capability classification (irrigated): None specified*  
*Land capability classification (nonirrigated): 8*  
*Hydrologic Soil Group: A/D*  
*Other vegetative classification: Forage suitability group not assigned (G156AC999FL)*

### **Description of Wulfert**

#### **Setting**

*Landform: Tidal marshes on marine terraces*  
*Landform position (three-dimensional): Talf*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Parent material: Organic material over sandy marine deposits*

#### **Typical profile**

*Oa1 - 0 to 26 inches: muck*  
*Oa2 - 26 to 40 inches: muck*  
*Cg - 40 to 80 inches: fine sand*

### Properties and qualities

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Very poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (6.00 to 20.00 in/hr)  
*Depth to water table:* About 0 to 6 inches  
*Frequency of flooding:* Frequent  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Moderately saline to strongly saline (16.0 to 32.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 80.0  
*Available water storage in profile:* High (about 10.2 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 8  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Forage suitability group not assigned (G156AC999FL)

### Minor Components

#### Kesson

*Percent of map unit:* 5 percent  
*Landform:* Tidal marshes on marine terraces  
*Landform position (three-dimensional):* Interfluve, talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Other vegetative classification:* Forage suitability group not assigned (G156AC999FL)

#### Pennsuco

*Percent of map unit:* 5 percent  
*Landform:* Marshes on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Other vegetative classification:* Slough (R155XY011FL), Loamy and clayey soils on flats of hydric or mesic lowlands (G156BC341FL)

## 41—Urban land-Satellite complex

### Map Unit Setting

*National map unit symbol:* 1jfvb  
*Elevation:* 10 feet  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Not prime farmland

### Map Unit Composition

*Urban land:* 60 percent

*Satellite and similar soils:* 40 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Urban Land

#### Setting

*Landform:* Marine terraces

*Landform position (three-dimensional):* Interfluve, talf

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* No parent material

#### Interpretive groups

*Land capability classification (irrigated):* None specified

*Other vegetative classification:* Forage suitability group not assigned  
(G156AC999FL)

### Description of Satellite

#### Setting

*Landform:* Rises on marine terraces, flats on marine terraces

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Sandy marine deposits

#### Typical profile

*A - 0 to 3 inches:* fine sand

*C - 3 to 80 inches:* fine sand

#### Properties and qualities

*Slope:* 0 to 2 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Somewhat poorly drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water (Ksat):* Very high  
(19.98 to 39.68 in/hr)

*Depth to water table:* About 18 to 42 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 4.0

*Available water storage in profile:* Very low (about 2.5 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6s

*Hydrologic Soil Group:* A/D

*Other vegetative classification:* Forage suitability group not assigned  
(G156AC999FL)

## 42—Canaveral-Beaches complex

### Map Unit Setting

*National map unit symbol:* 1jfv  
*Elevation:* 0 to 20 feet  
*Mean annual precipitation:* 42 to 54 inches  
*Mean annual air temperature:* 52 to 77 degrees F  
*Frost-free period:* 190 to 365 days  
*Farmland classification:* Not prime farmland

### Map Unit Composition

*Canaveral and similar soils:* 55 percent  
*Beaches:* 45 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Canaveral

#### Setting

*Landform:* Flats on marine terraces, ridges on marine terraces  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Sandy marine deposits

#### Typical profile

*A - 0 to 4 inches:* fine sand  
*C - 4 to 80 inches:* fine sand

#### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Somewhat poorly drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):* Very high  
(19.98 to 39.68 in/hr)  
*Depth to water table:* About 12 to 36 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 15 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 6.0  
*Available water storage in profile:* Very low (about 2.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6s  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Forage suitability group not assigned  
(G156AC999FL)

### Description of Beaches

#### Setting

*Landform:* Beaches on marine terraces  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear

#### Properties and qualities

*Slope:* 1 to 2 percent  
*Natural drainage class:* Poorly drained  
*Runoff class:* Negligible  
*Depth to water table:* About 0 to 72 inches  
*Frequency of flooding:* Frequent

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 8  
*Other vegetative classification:* Forage suitability group not assigned (G156AC999FL)

## 43—Winder, Riviera, limestone substratum, and Chobee soils, depressional

### Map Unit Setting

*National map unit symbol:* 1jfvd  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Not prime farmland

### Map Unit Composition

*Riviera, limestone substratum, and similar soils:* 30 percent  
*Winder and similar soils:* 30 percent  
*Chobee and similar soils:* 30 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Chobee

#### Setting

*Landform:* Depressions on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Parent material:* Loamy alluvium

#### Typical profile

*A - 0 to 6 inches:* mucky fine sand  
*Btg1 - 6 to 13 inches:* fine sandy loam  
*Btg2 - 13 to 47 inches:* sandy clay loam

*Btg3 - 47 to 80 inches: fine sandy loam*

**Properties and qualities**

*Slope: 0 to 1 percent*

*Depth to restrictive feature: More than 80 inches*

*Natural drainage class: Very poorly drained*

*Runoff class: Negligible*

*Capacity of the most limiting layer to transmit water (Ksat):*

*Moderately low to moderately high (0.06 to 0.20 in/hr)*

*Depth to water table: About 0 inches*

*Frequency of flooding: None*

*Frequency of ponding: Frequent*

*Calcium carbonate, maximum in profile: 5 percent*

*Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)*

*Sodium adsorption ratio, maximum in profile: 4.0*

*Available water storage in profile: High (about 9.4 inches)*

**Interpretive groups**

*Land capability classification (irrigated): None specified*

*Land capability classification (nonirrigated): 7w*

*Hydrologic Soil Group: C/D*

*Other vegetative classification: Freshwater Marshes and Ponds (R155XY010FL), Loamy and clayey soils on stream terraces, flood plains, or in depressions (G156AC345FL)*

**Description of Winder**

**Setting**

*Landform: Marshes on marine terraces*

*Landform position (three-dimensional): Talf*

*Down-slope shape: Linear, concave*

*Across-slope shape: Linear*

*Parent material: Sandy and loamy marine deposits over limestone*

**Typical profile**

*A - 0 to 5 inches: fine sand*

*E - 5 to 15 inches: fine sand*

*B/A - 15 to 18 inches: fine sandy loam*

*Btg - 18 to 50 inches: sandy clay loam*

*2Ck - 50 to 80 inches: fine sandy loam*

**Properties and qualities**

*Slope: 0 to 1 percent*

*Depth to restrictive feature: More than 80 inches*

*Natural drainage class: Very poorly drained*

*Runoff class: Negligible*

*Capacity of the most limiting layer to transmit water (Ksat):*

*Moderately low to moderately high (0.06 to 0.20 in/hr)*

*Depth to water table: About 0 inches*

*Frequency of flooding: None*

*Frequency of ponding: Frequent*

*Calcium carbonate, maximum in profile: 15 percent*

*Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)*

*Sodium adsorption ratio, maximum in profile: 4.0*

*Available water storage in profile:* Moderate (about 6.2 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7w

*Hydrologic Soil Group:* C/D

*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Loamy and clayey soils on stream terraces, flood plains, or in depressions (G156AC345FL)

### **Description of Riviera, Limestone Substratum**

#### **Setting**

*Landform:* Marshes on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Parent material:* Sandy and loamy marine deposits

#### **Typical profile**

*A - 0 to 6 inches:* fine sand

*Eg - 6 to 32 inches:* fine sand

*Btg - 32 to 54 inches:* sandy clay loam

*2R - 54 to 58 inches:* unweathered bedrock

#### **Properties and qualities**

*Slope:* 0 to 1 percent

*Depth to restrictive feature:* 40 to 70 inches to lithic bedrock

*Natural drainage class:* Very poorly drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately high to high (0.20 to 6.00 in/hr)

*Depth to water table:* About 0 inches

*Frequency of flooding:* None

*Frequency of ponding:* Frequent

*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 4.0

*Available water storage in profile:* Low (about 4.1 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7w

*Hydrologic Soil Group:* A/D

*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Sandy over loamy soils on stream terraces, flood plains, or in depressions (G156AC245FL)

### **Minor Components**

#### **Gator**

*Percent of map unit:* 5 percent

*Landform:* Depressions on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Other vegetative classification:* Freshwater Marshes and Ponds  
(R155XY010FL), Organic soils in depressions and on flood plains  
(G156AC645FL)

#### **Boca**

*Percent of map unit:* 5 percent

*Landform:* Depressions on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Other vegetative classification:* Freshwater Marshes and Ponds  
(R155XY010FL), Sandy over loamy soils on stream terraces,  
flood plains, or in depressions (G156AC245FL)

### **45—Paola fine sand, gently rolling**

#### **Map Unit Setting**

*National map unit symbol:* 1jfvf

*Mean annual precipitation:* 46 to 54 inches

*Mean annual air temperature:* 70 to 77 degrees F

*Frost-free period:* 350 to 365 days

*Farmland classification:* Not prime farmland

#### **Map Unit Composition**

*Paola and similar soils:* 98 percent

*Minor components:* 2 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### **Description of Paola**

##### **Setting**

*Landform:* Knolls on marine terraces, ridges on marine terraces

*Landform position (three-dimensional):* Interfluve, side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Sandy marine deposits

##### **Typical profile**

*A - 0 to 3 inches:* fine sand

*E - 3 to 32 inches:* fine sand

*B/C - 32 to 80 inches:* fine sand

##### **Properties and qualities**

*Slope:* 1 to 8 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Excessively drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water (Ksat):* Very high  
(20.00 to 39.68 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Very low (about 1.8 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6s  
*Hydrologic Soil Group:* A  
*Other vegetative classification:* Sandy soils on ridges and dunes of xeric uplands (G156AC111FL)

**Minor Components**

**Pomello**

*Percent of map unit:* 2 percent  
*Landform:* Rises on marine terraces, flats on marine terraces  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Other vegetative classification:* Sand Pine Scrub (R155XY001FL),  
Sandy soils on rises and knolls of mesic uplands (G156AC131FL)

**48—Pennsuco silt loam**

**Map Unit Setting**

*National map unit symbol:* 1jfvj  
*Elevation:* 10 feet  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Pennsuco and similar soils:* 98 percent  
*Minor components:* 2 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Pennsuco**

**Setting**

*Landform:* Marshes on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Loamy marine deposits over limestone

**Typical profile**

*A - 0 to 5 inches:* silt loam  
*Bw - 5 to 40 inches:* silt loam  
*2C - 40 to 48 inches:* fine sand  
*3R - 48 to 52 inches:* unweathered bedrock

### **Properties and qualities**

*Slope:* 0 to 1 percent

*Depth to restrictive feature:* 40 to 72 inches to lithic bedrock

*Natural drainage class:* Poorly drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately high to high (0.20 to 2.00 in/hr)

*Depth to water table:* About 0 to 12 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 60 percent

*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 4.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 4.0

*Available water storage in profile:* High (about 10.9 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 4w

*Hydrologic Soil Group:* B/D

*Other vegetative classification:* Slough (R155XY011FL), Loamy and clayey soils on flats of hydric or mesic lowlands (G156AC341FL)

### **Minor Components**

#### **Ochopee, low**

*Percent of map unit:* 2 percent

*Landform:* Marshes on marine terraces

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Other vegetative classification:* Wetland Hardwood Hammock (R156AY012FL), Loamy and clayey soils on flats of hydric or mesic lowlands (G156AC341FL)

## **49—Hallandale and Boca fine sands**

### **Map Unit Setting**

*National map unit symbol:* 1jfvh

*Elevation:* 10 to 60 feet

*Mean annual precipitation:* 46 to 54 inches

*Mean annual air temperature:* 70 to 77 degrees F

*Frost-free period:* 350 to 365 days

*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Hallandale and similar soils:* 45 percent

*Boca and similar soils:* 45 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

## Description of Boca

### Setting

*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip, talf  
*Down-slope shape:* Concave  
*Across-slope shape:* Linear  
*Parent material:* Sandy and loamy marine deposits over limestone

### Typical profile

*A - 0 to 4 inches:* fine sand  
*E/B - 4 to 26 inches:* fine sand  
*Btg - 26 to 30 inches:* fine sandy loam  
*2R - 30 to 34 inches:* unweathered bedrock

### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* 24 to 40 inches to lithic bedrock  
*Natural drainage class:* Poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* About 0 to 12 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 10 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Very low (about 1.7 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 5w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Wetland Hardwood Hammock  
(R156AY012FL), Sandy over loamy soils on flats of hydric or  
mesic lowlands (G156AC241FL)

## Description of Hallandale

### Setting

*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Parent material:* Sandy marine deposits over limestone

### Typical profile

*A - 0 to 3 inches:* fine sand  
*E/B - 3 to 12 inches:* fine sand  
*2R - 12 to 16 inches:* unweathered bedrock

### Properties and qualities

*Slope:* 0 to 2 percent

*Depth to restrictive feature:* 7 to 20 inches to lithic bedrock  
*Natural drainage class:* Poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (2.00 to 20.00 in/hr)  
*Depth to water table:* About 0 to 12 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Very low (about 0.9 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 5w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Wetland Hardwood Hammock (R156AY012FL), Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

#### **Minor Components**

##### **Pineda, limestone substratum**

*Percent of map unit:* 5 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Other vegetative classification:* Wetland Hardwood Hammock (R156AY012FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G156AC241FL)

##### **Copeland**

*Percent of map unit:* 5 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Other vegetative classification:* Loamy and clayey soils on flats of hydric or mesic lowlands (G156AC341FL)

### **50—Ochopee fine sandy loam, low**

#### **Map Unit Setting**

*National map unit symbol:* 1jfvj  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Not prime farmland

#### **Map Unit Composition**

*Ochopee, low, and similar soils:* 95 percent

*Minor components: 5 percent*

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Ochopee, Low**

#### **Setting**

*Landform: Marshes on marine terraces*

*Landform position (three-dimensional): Talf*

*Down-slope shape: Linear*

*Across-slope shape: Linear*

*Parent material: Loamy marine deposits over limestone*

#### **Typical profile**

*A - 0 to 5 inches: fine sandy loam*

*Bk - 5 to 17 inches: fine sandy loam*

*2R - 17 to 21 inches: unweathered bedrock*

#### **Properties and qualities**

*Slope: 0 to 1 percent*

*Depth to restrictive feature: 6 to 20 inches to lithic bedrock*

*Natural drainage class: Poorly drained*

*Runoff class: Very high*

*Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)*

*Depth to water table: About 0 to 6 inches*

*Frequency of flooding: None*

*Frequency of ponding: None*

*Calcium carbonate, maximum in profile: 45 percent*

*Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)*

*Sodium adsorption ratio, maximum in profile: 4.0*

*Available water storage in profile: Very low (about 2.7 inches)*

#### **Interpretive groups**

*Land capability classification (irrigated): None specified*

*Land capability classification (nonirrigated): 4w*

*Hydrologic Soil Group: B/D*

*Other vegetative classification: Wetland Hardwood Hammock (R156AY012FL), Loamy and clayey soils on flats of hydric or mesic lowlands (G156AC341FL)*

### **Minor Components**

#### **Rock outcrop**

*Percent of map unit: 5 percent*

*Other vegetative classification: Forage suitability group not assigned (G156AC999FL)*

## **51—Ochopee fine sandy loam**

#### **Map Unit Setting**

*National map unit symbol: 1jfvk*

*Mean annual precipitation: 46 to 54 inches*

*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Ochopee and similar soils:* 95 percent  
*Minor components:* 5 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Ochopee**

#### **Setting**

*Landform:* Marshes on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Loamy marine deposits over limestone

#### **Typical profile**

*A - 0 to 5 inches:* fine sandy loam  
*Bk - 5 to 17 inches:* fine sandy loam  
*2R - 17 to 21 inches:* unweathered bedrock

#### **Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* 6 to 20 inches to lithic bedrock  
*Natural drainage class:* Poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* High (2.00 to 6.00 in/hr)  
*Depth to water table:* About 0 to 12 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 45 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Very low (about 2.7 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* B/D  
*Other vegetative classification:* Scrub Cypress (R156AY013FL),  
Loamy and clayey soils on flats of hydric or mesic lowlands  
(G156AC341FL)

### **Minor Components**

#### **Rock outcrop**

*Percent of map unit:* 5 percent  
*Other vegetative classification:* Forage suitability group not assigned  
(G156AC999FL)

## 52—Kesson muck, frequently flooded

### Map Unit Setting

*National map unit symbol:* 1jfv1  
*Elevation:* 0 to 30 feet  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Not prime farmland

### Map Unit Composition

*Kesson and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Kesson

#### Setting

*Landform:* Tidal marshes on marine terraces  
*Landform position (three-dimensional):* Interfluve, talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Sandy marine deposits with shells

#### Typical profile

*Oa - 0 to 5 inches:* muck  
*A - 5 to 10 inches:* fine sand  
*C1 - 10 to 50 inches:* fine sand  
*C2 - 50 to 80 inches:* fine sand

#### Properties and qualities

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Very poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (2.00 to 20.00 in/hr)  
*Depth to water table:* About 0 to 6 inches  
*Frequency of flooding:* Frequent  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 15 percent  
*Salinity, maximum in profile:* Moderately saline to strongly saline (16.0 to 32.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 30.0  
*Available water storage in profile:* Moderate (about 7.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 8  
*Hydrologic Soil Group:* A/D

*Other vegetative classification:* Forage suitability group not assigned  
(G156AC999FL)

### **Minor Components**

#### **Basinger**

*Percent of map unit:* 5 percent  
*Landform:* Tidal marshes on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Other vegetative classification:* Sandy soils on stream terraces, flood plains, or in depressions (G156AC145FL)

#### **Dania**

*Percent of map unit:* 5 percent  
*Landform:* Depressions on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G156AC645FL)

#### **Peckish**

*Percent of map unit:* 5 percent  
*Landform:* Tidal marshes on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Other vegetative classification:* Forage suitability group not assigned (G156AC999FL)

## **53—Estero and Peckish soils, frequently flooded**

### **Map Unit Setting**

*National map unit symbol:* 1jfv  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Estero and similar soils:* 50 percent  
*Peckish and similar soils:* 45 percent  
*Minor components:* 5 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Estero**

#### **Setting**

*Landform:* Tidal marshes on marine terraces

*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Sandy marine deposits

**Typical profile**

*Oa - 0 to 6 inches:* muck  
*A - 6 to 28 inches:* fine sand  
*Eg - 28 to 40 inches:* fine sand  
*Bh - 40 to 80 inches:* fine sand

**Properties and qualities**

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Very poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* High (2.00 to 6.00 in/hr)  
*Depth to water table:* About 0 to 6 inches  
*Frequency of flooding:* Frequent  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Moderately saline to strongly saline (16.0 to 32.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 70.0  
*Available water storage in profile:* Moderate (about 8.3 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 8  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Forage suitability group not assigned (G156AC999FL)

**Description of Peckish**

**Setting**

*Landform:* Tidal marshes on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Sandy marine deposits

**Typical profile**

*A - 0 to 9 inches:* mucky fine sand  
*Eg - 9 to 37 inches:* fine sand  
*Bh - 37 to 42 inches:* fine sand  
*Cg - 42 to 80 inches:* fine sand

**Properties and qualities**

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Very poorly drained  
*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (6.00 to 20.00 in/hr)

*Depth to water table:* About 0 to 6 inches

*Frequency of flooding:* Frequent

*Frequency of ponding:* None

*Salinity, maximum in profile:* Moderately saline to strongly saline (16.0 to 32.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 80.0

*Available water storage in profile:* Low (about 5.9 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 8

*Hydrologic Soil Group:* A/D

*Other vegetative classification:* Forage suitability group not assigned (G156AC999FL)

#### **Minor Components**

##### **Wulfert**

*Percent of map unit:* 5 percent

*Landform:* Tidal marshes on marine terraces

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Other vegetative classification:* Forage suitability group not assigned (G156AC999FL)

### **54—Jupiter-Boca complex**

#### **Map Unit Setting**

*National map unit symbol:* 1jfvn

*Elevation:* 10 to 30 feet

*Mean annual precipitation:* 46 to 54 inches

*Mean annual air temperature:* 70 to 77 degrees F

*Frost-free period:* 350 to 365 days

*Farmland classification:* Not prime farmland

#### **Map Unit Composition**

*Jupiter and similar soils:* 60 percent

*Boca and similar soils:* 38 percent

*Minor components:* 2 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### **Description of Jupiter**

##### **Setting**

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Parent material:* Sandy marine deposits over limestone

**Typical profile**

*A1 - 0 to 4 inches:* mucky fine sand

*A2 - 4 to 10 inches:* fine sand

*2R - 10 to 14 inches:* unweathered bedrock

**Properties and qualities**

*Slope:* 0 to 2 percent

*Depth to restrictive feature:* 8 to 20 inches to lithic bedrock

*Natural drainage class:* Very poorly drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (2.00 to 20.00 in/hr)

*Depth to water table:* About 0 to 6 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 4.0

*Available water storage in profile:* Very low (about 1.8 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6w

*Hydrologic Soil Group:* A/D

*Other vegetative classification:* Scrub Cypress (R156AY013FL),  
Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

**Description of Boca**

**Setting**

*Landform:* Drainageways on marine terraces

*Landform position (three-dimensional):* Talf, dip

*Down-slope shape:* Concave

*Across-slope shape:* Linear

*Parent material:* Sandy and loamy marine deposits over limestone

**Typical profile**

*A - 0 to 4 inches:* fine sand

*E/B - 4 to 26 inches:* fine sand

*Btg - 26 to 30 inches:* fine sandy loam

*2R - 30 to 34 inches:* unweathered bedrock

**Properties and qualities**

*Slope:* 0 to 2 percent

*Depth to restrictive feature:* 24 to 40 inches to lithic bedrock

*Natural drainage class:* Poorly drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* About 0 to 12 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 10 percent

*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Very low (about 1.7 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 5w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Scrub Cypress (R156AY013FL),  
Sandy over loamy soils on flats of hydric or mesic lowlands  
(G156AC241FL)

**Minor Components**

**Copeland**

*Percent of map unit:* 2 percent  
*Landform:* Drainageways on marine terraces  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Other vegetative classification:* Loamy and clayey soils on flats of  
hydric or mesic lowlands (G156AC341FL)

**56—Basinger fine sand, occasionally flooded**

**Map Unit Setting**

*National map unit symbol:* 1jfvp  
*Mean annual precipitation:* 46 to 54 inches  
*Mean annual air temperature:* 70 to 77 degrees F  
*Frost-free period:* 350 to 365 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Basinger and similar soils:* 98 percent  
*Minor components:* 2 percent  
*Estimates are based on observations, descriptions, and transects of the  
mapunit.*

**Description of Basinger**

**Setting**

*Landform:* Ridges on tidal marshes on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Sandy marine deposits

**Typical profile**

*A - 0 to 3 inches:* fine sand  
*E - 3 to 25 inches:* fine sand  
*Bh/E - 25 to 44 inches:* fine sand  
*C - 44 to 80 inches:* fine sand

### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (6.00 to 20.00 in/hr)  
*Depth to water table:* About 0 to 12 inches  
*Frequency of flooding:* Occasional  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 4.0  
*Available water storage in profile:* Low (about 5.0 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 5w  
*Hydrologic Soil Group:* A/D  
*Other vegetative classification:* Sandy soils on stream terraces, flood plains, or in depressions (G156AC145FL)

### Minor Components

#### Immokalee

*Percent of map unit:* 2 percent  
*Landform:* Marshes on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Other vegetative classification:* South Florida Flatwoods (R155XY003FL), Sandy soils on flats of mesic or hydric lowlands (G156AC141FL)

## 99—Water

### Map Unit Composition

*Water:* 100 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Water

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Other vegetative classification:* Forage suitability group not assigned (G156AC999FL)

## 100—Waters of the Gulf of Mexico

### Map Unit Composition

*Waters of the gulf of mexico:* 100 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Waters Of The Gulf Of Mexico**

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Other vegetative classification:* Forage suitability group not assigned  
(G156AC999FL)

### **Data Source Information**

Soil Survey Area: Collier County Area, Florida

Survey Area Data: Version 6, Sep 21, 2014