



## Montgomery County, Texas (TX339)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ab	Landman fine sand	1.3	1.9%
BisA	Bissonnet loam, 0 to 1 percent slopes	42.5	62.3%
Ft	Lilbert loamy fine sand, terrace	2.1	3.0%
KanA	Kaman clay, 0 to 1 percent slopes, frequently flooded	21.3	31.2%
W	Water	1.1	1.5%
Totals for Area of Interest		68.3	100.0%

### **BisA—Bissonnet loam, 0 to 1 percent slopes**

#### **Map Unit Setting**

- National map unit symbol: f779
- Elevation: 10 to 100 feet
- Mean annual precipitation: 48 to 60 inches
- Mean annual air temperature: 67 to 69 degrees F
- Frost-free period: 240 to 300 days
- Farmland classification: Not prime farmland

#### **Map Unit Composition**

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

#### **Description of Bissonnet**

##### **Setting**

- Landform: Flats
- Landform position (three-dimensional): Dip
- Down-slope shape: Linear
- Across-slope shape: Concave
- Parent material: Loamy fluviomarine deposits

##### **Typical profile**

- A - 0 to 13 inches: loam
- Btg1 - 13 to 34 inches: silty clay loam
- Btg2 - 34 to 80 inches: silty clay

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

- Slope: 0 to 1 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 0 inches
- Frequency of flooding: None
- Frequency of ponding: None
- Salinity, maximum in profile: Nonsaline (0.0 to 1.0 mmhos/cm)
- Sodium adsorption ratio, maximum in profile: 6.0
- Available water storage in profile: High (about 9.5 inches)

#### **Interpretive groups**

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

#### **Minor Components**

##### **Bevil**

- Percent of map unit: 5 percent
- Landform: Depressions
- Landform position (three-dimensional): Dip
- Microfeatures of landform position: Gilgai
- Down-slope shape: Concave
- Across-slope shape: Concave

##### **Aldine**

- Percent of map unit: 5 percent
- Landform: Flats
- Landform position (three-dimensional): Rise
- Microfeatures of landform position: Pimple mounds
- Down-slope shape: Convex
- Across-slope shape: Convex

#### **KanA—Kaman clay, 0 to 1 percent slopes, frequently flooded**

##### **Map Unit Setting**

- National map unit symbol: 2s0wv
- Elevation: 10 to 150 feet
- Mean annual precipitation: 48 to 62 inches
- Mean annual air temperature: 67 to 69 degrees F
- Frost-free period: 240 to 300 days
- Farmland classification: Not prime farmland

##### **Map Unit Composition**

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

## **Description of Kaman**

### **Setting**

- Landform: Flood plains
- Landform position (three-dimensional): Talf
- Down-slope shape: Linear
- Across-slope shape: Linear
- Parent material: Clayey alluvium derived from igneous, metamorphic and sedimentary rock

### **Typical profile**

- A - 0 to 6 inches: clay
- Bss1 - 6 to 20 inches: clay
- Bss2 - 20 to 62 inches: clay
- Bkss - 62 to 80 inches: clay

### **Properties and qualities**

- Slope: 0 to 1 percent
- Depth to restrictive feature: More than 80 inches
- Natural drainage class: Somewhat poorly drained
- Runoff class: High
- Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
- Depth to water table: About 20 to 35 inches
- Frequency of flooding: Frequent
- Frequency of ponding: None
- Calcium carbonate, maximum in profile: 5 percent
- Gypsum, maximum in profile: 2 percent
- Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- Sodium adsorption ratio, maximum in profile: 6.0
- Available water storage in profile: Moderate (about 7.8 inches)

### **Interpretive groups**

- Land capability classification (irrigated): None specified
- Land capability classification (nonirrigated): 5w
- Hydrologic Soil Group: D
- Ecological site: Clayey Bottomland 28-44" PZ (R150AY527TX)

## **Minor Components**

### **Kaman**

- Percent of map unit: 10 percent
- Landform: Flood plains
- Landform position (three-dimensional): Talf
- Down-slope shape: Linear
- Across-slope shape: Linear
- Ecological site: Clayey Bottomland 28-44" PZ (R150AY527TX)

### **Simelake**

- Percent of map unit: 3 percent
- Landform: Flood plains
- Landform position (three-dimensional): Talf
- Down-slope shape: Linear
- Across-slope shape: Linear

#### **Cowmarsh**

- Percent of map unit: 1 percent
- Landform: Oxbows on flood plains
- Landform position (three-dimensional): Dip
- Down-slope shape: Linear, concave
- Across-slope shape: Linear, concave

#### **Pluck**

- Percent of map unit: 1 percent
- Landform: Flood plains
- Landform position (three-dimensional): Dip
- Microfeatures of landform position: Channels
- Down-slope shape: Concave
- Across-slope shape: Concave