

Map Symbol	Map Unit Name	Nontechnical Descriptions
Aa	ACADIA-VIDRINE COMPLEX, MOUNDED, 0 TO 3 PERCENT SLOPES	This complex consists of the Acadia soil between mounds and the Vidrine soil on small mounds. The Acadia soil is somewhat poorly drained. The Vidrine soil is moderately well drained. Both soils have a loamy surface layer and a loamy and clayey subsoil. Water and air move through the subsoils very slowly or slowly. Surface runoff is slow on the Acadia soil and medium on the Vidrine soil. The shrink-swell potential in the subsoil is high. Natural fertility is low.
Ac	ACADIA SILT LOAM, 0 TO 1 PERCENT SLOPES	This somewhat poorly drained, level soil is on broad flats on uplands. It has a loamy surface layer and a clayey subsoil. The soil is acid throughout and has low fertility. Runoff is slow and water moves very slowly through the subsoil. The soil has a seasonal high water table about 2 to 4 feet below the surface in winter and spring. The clayey subsoil has a high shrink-swell potential.
Ad	ACADIA SILT LOAM, 1 TO 3 PERCENT SLOPES	This somewhat poorly drained, very gently sloping soil is on side slopes on uplands. It has a loamy surface layer and a clayey subsoil. The soil is acid throughout and has low fertility. Runoff is medium. Water and air move very slowly through the subsoil. The soil has a seasonal high water table for long periods in winter and spring. The clayey subsoil has a high shrink-swell potential.
Ae	ACADIA-WRIGHTSVILLE COMPLEX, MOUNDED, 0 TO 3 PERCENT SLOPES	This complex consists of the Acadia soil on mounds and ridges and the Wrightsville soil in level and depressional areas between mounds. The Acadia soil is somewhat poorly drained. The Wrightsville soil is poorly drained. Both soils have a loamy surface layer and a clayey and loamy subsoil. Water and air move very slowly through the soils. Surface runoff on the Acadia soil is medium. Natural fertility is low. The shrink-swell potential in the subsoils is high. Both soils have a seasonal high water table for long periods in winter and spring.
Af	CAHABA (AMITE) FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	This soil is moderately sloping and well drained. It is on terraces. The soil is loamy throughout. Natural fertility is low. Permeability is moderate. Runoff is medium. In places, the soil is moderately eroded.
Ag	CAHABA (AMITE) FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This soil is moderately sloping and well drained. It is on terraces. The soil is loamy throughout. Natural fertility is low. Permeability is moderate. Runoff is medium. In places, the soil is moderately eroded.
Ah	RUSTON (AMITE) FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES, ERODED	This well drained, gently sloping to moderately sloping soil is on uplands. It is loamy and acid throughout. Natural fertility is low. Runoff is rapid. Movement of air and water through the soil is moderate. Plant roots penetrate the soil easily. In places, the soil is moderately eroded.

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Ak	SMITHDALE (AMITE) FINE SANDY LOAM, 8 TO 20 PERCENT SLOPES, ERODED	This moderately steep, well drained soil is on uplands. It is moderately eroded. The soil has a thin loamy surface layer and a loamy subsoil. A few gullies cross the landscape. Surface runoff is rapid. Water and air move through the soil at a moderate rate. Natural fertility is low.
Am	CAHABA (AMITE) FINE SANDY LOAM, THICK SURFACE, 1 TO 5 PERCENT SLOPES	This soil is moderately sloping and well drained. It is on terraces. The soil is loamy throughout. Natural fertility is low. Permeability is moderate. Runoff is medium. In places, the soil is moderately eroded.
An	SMITHDALE (AMITE) SOILS, 5 TO 20 PERCENT SLOPES, SEVERELY ERODED	This well drained, strongly sloping or moderately steep soil is on side slopes on uplands. It is loamy and acid throughout. Natural fertility is low. Runoff is rapid. Movement of water and air through the soil is moderate. In places, the soil is moderately eroded.
B-Ar	ARMISTEAD CLAY	This level, somewhat poorly drained soil is on natural levees on the alluvial plain. It has a clayey surface layer and loamy subsoil. Natural fertility is high. Permeability is slow in the surface layer and moderately slow in the subsoil. The soil has a seasonal high water table in winter and spring. The shrink-swell potential is low in the subsoil.
B-Be	BETIS LOAMY FINE SAND, 1 TO 5 PERCENT SLOPES	This somewhat excessively drained, very gently sloping or gently sloping, sandy soil is on uplands. It has a very low available water capacity and very low natural fertility. Runoff is slow. Water moves rapidly through the soil.
B-Bu	BUXIN CLAY	This somewhat poorly drained, level soil is on flood plains. It formed in Red River alluvium. The soil has a clayey surface layer and a clayey subsoil. Natural fertility is high. Runoff is slow. Water and air move very slowly through the subsoil. A seasonal high water table is near the surface for long periods in winter and spring. The shrink-swell potential is very high in the subsoil.
B-Cs	CASPIANA SILT LOAM	This well drained, level soil is on older natural levees on flood plains. It formed in alluvium deposited by the Red River. The soil is loamy throughout and has high natural fertility. Runoff is slow. In places, water collects in low spots for short periods after rains. Water and air move through the subsoil at a moderate rate. Adequate water is available to plants in most years.
B-FO	FORBING SILT LOAM, 5 TO 12 PERCENT SLOPES	This moderately well drained, moderately sloping to strongly sloping soil is on side slopes on uplands. It has a loamy surface layer and a clayey subsoil. The soil is acid throughout and has low fertility. Runoff is rapid, and water moves very slowly through the subsoil. The subsoil has a very high shrink-swell potential. In places, the soil is moderately eroded.
B-Fn	FORBING SILT LOAM, 1 TO 5 PERCENT SLOPES	This moderately well drained, very gently sloping to gently sloping soil is on uplands. It has a loamy surface layer and a clayey subsoil. The soil is acid throughout and has low fertility. Runoff is medium, and water moves very slowly through the subsoil. The shrink-swell potential is high or very high in the subsoil. In places, the soil is moderately eroded.

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B-GR	GORE SILT LOAM, 5 TO 12 PERCENT SLOPES	This moderately well drained, moderately sloping to strongly sloping soil is on side slopes on uplands. It has a loamy surface layer and a clayey subsoil. The soil is acid throughout and has low fertility. Runoff is rapid, and water moves very slowly through the subsoil. The subsoil has a very high shrink-swell potential. In places, the soil is moderately eroded.
B-GY	GUYTON SILT LOAM, FREQUENTLY FLOODED	These poorly drained, level soils are on alluvial plains of streams that drain the uplands. The mapped areas are about 60 percent Guyton soils and 20 percent soils that are better drained. The soils are subject to frequent flooding during any month of the year. They are loamy throughout and have low natural fertility. In most of the soils, a seasonal high water table is near the surface in winter and spring.
B-Ga	GALLION SILT LOAM	This well drained, level or nearly level soil is on older natural levees on the flood plain of streams. It is loamy throughout and has high or moderately high natural fertility. Runoff is slow or medium. Water and air move through the subsoil at a moderate rate. Adequate water is available to plants in most years. The seasonal high water table is generally more than 6 feet below the surface, but in low places, it can rise to within 4 to 6 feet of the soil surface.
B-Ge	GALLION SILTY CLAY LOAM	This well drained, level soil is on older natural levees on flood plains. It formed in alluvium deposited by the Red River. The soil is loamy throughout and has high natural fertility. Runoff is slow. In places, water collects in low spots for short periods after rains. Water and air move through the subsoil at a moderate rate. Adequate water is available to plants in most years.
B-Go	GORE SILT LOAM, 1 TO 5 PERCENT SLOPES	This moderately well drained, very gently sloping to gently sloping soil is on uplands. It has a loamy surface layer and a clayey subsoil. The soil is acid throughout and has low fertility. Runoff is medium, and water moves very slowly through the subsoil. The shrink-swell potential is high or very high in the subsoil. In places, the soil is moderately eroded.
B-Gu	GUYTON SILT LOAM	This soil is level and poorly drained. It is subject to rare flooding. The soil is on broad flats and in slightly depressional areas on terraces. Typically, the soil is acid and loamy throughout. Natural fertility is low. Permeability is slow or moderately slow. Water runs off the surface at a slow rate and stands in low places for short to long periods after rains. A seasonal high water table is near the surface for long periods in winter and spring. The shrink-swell potential is low or moderate.
B-Ke	KEITHVILLE SILT LOAM, 1 TO 5 PERCENT SLOPES	This is a moderately well drained, gently sloping soil on uplands. It is loamy in the surface layer and in the upper part of the subsoil. The lower part of the subsoil is clayey. Natural fertility is low. Permeability is slow or very slow through the lower part of the subsoil. Runoff is medium. The soil has a seasonal high water table. It has a high shrink-swell potential in the subsoil.

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B-Ko	KOLIN SILT LOAM, 1 TO 3 PERCENT SLOPES	This moderately well drained, very gently sloping or gently sloping soil is on terraces. It is loamy in the upper part of the subsoil and clayey in the lower part. Natural fertility is low or moderately low. Runoff is slow to medium. Water and air move slowly or very slowly through the clayey part of the subsoil. A seasonal high water table is perched on the clayey subsoil for long periods in winter and spring. In places, the soil is moderately eroded.
B-MK	MCKAMIE SILT LOAM, 5 TO 12 PERCENT SLOPES	This well drained, moderately sloping to strongly sloping soil is on uplands. It has a loamy or gravelly surface layer and a clayey subsoil. Natural fertility is low. Runoff is rapid. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
B-Ma	MALBIS FINE SANDY LOAM, 1 TO 3 PERCENT SLOPES	This moderately well drained, very gently sloping to gently sloping soil is on uplands. It is loamy throughout and has plinthite in the lower part of the subsoil. Natural fertility is low. Runoff is medium, and water and air move moderately slowly through the soil.
B-Mc	MCKAMIE SILT LOAM, 1 TO 5 PERCENT SLOPES	This well drained, very gently sloping to gently sloping soil is on uplands. It has a loamy surface layer and a clayey subsoil. Natural fertility is low. Runoff is medium. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
B-Me	METCALF SILT LOAM	This nearly level, somewhat poorly drained soil is on broad ridgetops on uplands. It has a loamy surface layer. The subsoil is loamy in the upper part and clayey in the lower part. Natural fertility is low. The soil has a seasonal high water table. It has a high shrink-swell potential in the subsoil. Permeability is very slow. Surface runoff is medium.
B-Mo	MORELAND CLAY	This somewhat poorly drained, level soil is on flood plains. It formed in Red River alluvium. The soil has a clayey surface layer and a clayey subsoil. Natural fertility is high. Runoff is slow. Water and air move very slowly through the subsoil. A seasonal high water table is near the surface for long periods in winter and spring. The shrink-swell potential is very high in the subsoil.
B-Pe	PERRY SILTY CLAY	This nearly level, poorly drained, clayey soil is on the alluvial plain along the Boeuf River. It is clayey throughout the profile. Natural fertility is moderately low. Surface runoff is slow to very slow. Water and air move very slowly through the soil. A seasonal high water table ranges from near the surface to 2 feet below the surface during December through April. The shrink-swell potential is very high. Deep cracks form when the soil is dry and close when it is wet. Slopes are less than 1 percent.

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B-Rs	RUSTON FINE SANDY LOAM, 1 TO 3 PERCENT SLOPES	This well drained, very gently sloping to gently sloping soil is on uplands. It is loamy and acid throughout. Natural fertility is low. Runoff is medium. Water and air move through the soil at a moderate rate. Plant roots penetrate this soil easily. The soil dries quickly after rains. In places, the soil is moderately eroded.
B-SC	SACUL FINE SANDY LOAM, 5 TO 12 PERCENT SLOPES	This moderately well drained, moderately sloping to strongly sloping soil is on side slopes on uplands. It has a loamy surface layer and a clayey subsoil. Runoff is rapid. Water and air move slowly or very slowly through the subsoil. The soil is acid throughout and has low fertility. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
B-SM	SMITHDALE FINE SANDY LOAM, 8 TO 30 PERCENT SLOPES	This well drained, strongly sloping or moderately steep soil is on side slopes on uplands. It is loamy and acid throughout. Natural fertility is low. Runoff is rapid. Movement of water and air through the soil is moderate. In places, the soil is moderately eroded.
B-Sa	SACUL FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	This moderately well drained, gently sloping soil is on ridgetops on uplands. It has a loamy surface layer and a clayey subsoil. Runoff is medium. Water and air move slowly or very slowly through the subsoil. The soil is acid throughout and has low fertility. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
B-Wr	WRIGHTSVILLE SILT LOAM	This poorly drained, level soil is in depressional areas along drainageways on uplands. It has a loamy surface layer and a clayey subsoil. Natural fertility is low. Runoff is slow, and water moves very slowly through the soil. This soil is wet during much of winter and spring. The subsoil has a high shrink-swell potential.
B-YK	YORKTOWN SILTY CLAY	This level, very poorly drained soil is in low backswamps on flood plains. It is ponded or frequently flooded most of the time. The soil is clayey throughout. Natural fertility is high. Permeability is very slow. The soil has a very high shrink-swell potential.
Bb	GUYTON AND IUKA (BIBB) SILT LOAMS	These level soils are on narrow flood plains. They are subject to frequent flooding. The poorly drained Guyton soil is in low areas. The moderately well drained Iuka soil is on ridges and natural levees. The Guyton soil is loamy throughout. It has slow permeability. The Iuka soil has a loamy surface layer and a sandy and loamy underlying material. Both soils have a seasonal high water table in winter and spring. Natural fertility is low.
Bc	GUYTON AND IUKA (BIBB,MYATT,STOUGH) SILT LOAMS, OVERFLOW	These level soils are on narrow flood plains. They are subject to frequent flooding. The poorly drained Guyton soil is in low areas. The moderately well drained Iuka soil is on ridges and natural levees. The Guyton soil is loamy throughout. It has slow permeability. The Iuka soil has a loamy surface layer and a sandy and loamy underlying material. Both soils have a seasonal high water table in winter and spring. Natural fertility is low.

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Bd	SACUL (BOSWELL) FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This moderately well drained, gently sloping soil is on ridgetops on uplands. It has a loamy surface layer and a clayey subsoil. Runoff is medium. Water and air move slowly or very slowly through the subsoil. The soil is acid throughout and has low fertility. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Be	SACUL (BOSWELL) FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES, ERODED	This moderately well drained, moderately sloping to strongly sloping soil is on side slopes on uplands. It has a loamy surface layer and a clayey subsoil. Runoff is rapid. Water and air move slowly or very slowly through the subsoil. The soil is acid throughout and has low fertility. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Bf	SACUL (BOSWELL) FINE SANDY LOAM, 8 TO 20 PERCENT SLOPES, ERODED	This moderately steep, moderately well drained soil is on uplands. It is moderately eroded. A few gullies cross the landscape. The soil has a thin loamy surface layer and a loamy and clayey subsoil. Water and air move through the soil at a slow rate. Surface runoff is rapid. Natural fertility is low. The shrink-swell potential in the subsoil is high.
Bg	SACUL (BOSWELL) SANDY CLAY, 5 TO 8 PERCENT SLOPES, SEVERELY ERODED	This moderately sloping, moderately well drained soil is on uplands. It is severely eroded. Numerous shallow gullies cross the landscape. The soil either has a very thin loamy surface layer, or it has no surface layer. The subsoil is loamy and clayey. Surface runoff is medium. Water and air move through the soil slowly. The shrink-swell potential in the subsoil is high. Natural fertility is low.
Bh	BUXIN CLAY, 0 TO 1 PERCENT SLOPES	This somewhat poorly drained, level soil is on flood plains. It formed in Red River alluvium. The soil has a clayey surface layer and a clayey subsoil. Natural fertility is high. Runoff is slow. Water and air move very slowly through the subsoil. A seasonal high water table is near the surface for long periods in winter and spring. The shrink-swell potential is very high in the subsoil.
Bk	BUXIN CLAY, 1 TO 3 PERCENT SLOPES	This somewhat poorly drained, clayey soil is on short irregular slopes in a ridge-and-swale topography on the flood plain. The soil is clayey throughout. Natural fertility is medium or high. Runoff is medium on the ridges. Water accumulates for short periods in the swales after rains. A seasonal high water table is near the surface in winter and spring. This soil has a very high shrink-swell potential.
Bm	BUXIN CLAY, UNDULATING	This somewhat poorly drained, clayey soil is on short irregular slopes in a ridge-and-swale topography on the flood plain. The soil is clayey throughout. Natural fertility is medium or high. Runoff is medium on the ridges. Water accumulates for short periods in the swales after rains. A seasonal high water table is near the surface in winter and spring. This soil has a very high shrink-swell potential.

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Bn	BUXIN COMPLEX, 0 TO 3 PERCENT SLOPES	This somewhat poorly drained, clayey soil is on short irregular slopes in a ridge-and-swale topography on the flood plain. The soil is clayey throughout. Natural fertility is medium or high. Runoff is medium on the ridges. Water accumulates for short periods in the swales after rains. A seasonal high water table is near the surface in winter and spring. This soil has a very high shrink-swell potential.
Bo	BUXIN COMPLEX, OVERFLOW, 0 TO 3 PERCENT SLOPES	This somewhat poorly drained, level soil is on the flood plain of the Red River. It is subject to frequent flooding for long periods. The soil is clayey throughout. Natural fertility is high. A seasonal high water table is near the surface in winter and spring. Water and air move very slowly through the soil. Cracks form when the soil dries. The soil has a very high shrink-swell potential.
Bu	BUXIN SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	This somewhat poorly drained, level soil is on the flood plain of the Red River. It has a loamy surface layer and a clayey subsoil. Natural fertility is high. Runoff is slow. Water and air move very slowly through the subsoil. A seasonal high water table is near the surface for long periods in winter and spring. The shrink-swell potential is very high in the subsoil.
Ca	CAHABA FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	This soil is moderately sloping and well drained. It is on terraces. The soil is loamy throughout. Natural fertility is low. Permeability is moderate. Runoff is medium. In places, the soil is moderately eroded.
Cb	CAHABA FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This soil is moderately sloping and well drained. It is on terraces. The soil is loamy throughout. Natural fertility is low. Permeability is moderate. Runoff is medium. In places, the soil is moderately eroded.
Cc	CAHABA FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES, ERODED	This moderately sloping, well drained soil is on terraces. It is moderately eroded. Numerous shallow gullies cross the landscape. The soil is loamy throughout. Water and air move through the soil at a moderate rate. Surface runoff is medium. Natural fertility is low.
Cd	CAHABA VERY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This soil is moderately sloping and well drained. It is on terraces. The soil is loamy throughout. Natural fertility is low. Permeability is moderate. Runoff is medium. In places, the soil is moderately eroded.
Cf	CAHABA (AND KALMIA) VERY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	These gently sloping soils are on terraces. The soils are well drained or moderately well drained. Both soils are loamy throughout. In places, the soils have a sandy surface layer. Water and air move through the soils at a moderate or moderately slow rate. Surface runoff is medium. Natural fertility is low.
Ct	CAHABA-SHATTA (TILDEN) VERY FINE SANDY LOAMS, 1 TO 5 PERCENT SLOPES	These gently sloping soils are on terraces. The soils are well drained or moderately well drained. Both soils are loamy throughout. In places, the soils have a sandy surface layer. Water and air move through the soils at a moderate or moderately slow rate. Surface runoff is medium. Natural fertility is low.

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Cy	UNA (CHASTAIN) CLAY	This level, poorly drained soil is on flood plains. It is subject to frequent flooding. The soil is clayey throughout, or it has a loamy surface layer and a clayey subsoil. Permeability is very slow. Natural fertility is medium. The soil has a seasonal high water table for long periods in winter and spring. The shrink-swell potential is high.
Ga	ARMISTEAD (GALLION) CLAY, OVERWASH, 0 TO 1 PERCENT SLOPES	This level, somewhat poorly drained soil is on natural levees on the alluvial plain. It has a clayey surface layer and loamy subsoil. Natural fertility is high. Permeability is slow in the surface layer and moderately slow in the subsoil. The soil has a seasonal high water table in winter and spring. The shrink-swell potential is low in the subsoil.
Gb	ARMISTEAD (GALLION) CLAY, OVERWASH, 1 TO 3 PERCENT SLOPES	This very gently sloping, well drained soil is on old natural levees on alluvial plains. The surface layer is clayey, and the subsoil is loamy. Water and air move at a slow rate through the surface layer and at a moderate rate through the subsoil. Surface runoff is medium. Natural fertility is medium or high.
Gc	ARMISTEAD (GALLION) CLAY, OVERWASH, UNDULATING	This gently undulating soil is on alluvial plains. It has uneven, complex slopes of 0 to 3 percent. The landscape is narrow winding ridges and swales. Surface runoff is medium on the ridges and very slow in the swales. The soil in swales remains wet for long periods after rains. The soil has a clayey surface layer and a loamy subsoil. Water and air move slowly through the surface layer, and they move at a moderate rate through the subsoil. Natural fertility is medium or high.
Gd	GALLION SILT LOAM, 0 TO 1 PERCENT SLOPES	This well drained, level or nearly level soil is on older natural levees on the flood plain of streams. It is loamy throughout and has high or moderately high natural fertility. Runoff is slow or medium. Water and air move through the subsoil at a moderate rate. Adequate water is available to plants in most years. The seasonal high water table is generally more than 6 feet below the surface, but in low places, it can rise to within 4 to 6 feet of the soil surface.
Gg	GALLION SILT LOAM, 1 TO 3 PERCENT SLOPES	This very gently sloping or gently sloping, well drained soil is on side slopes on old natural levees on the alluvial plain. The soil is loamy throughout. Natural fertility is medium or high. Water and air move through the soil at a moderate rate. Surface runoff is medium.
Gh	GALLION SILT LOAM, 3 TO 5 PERCENT SLOPES	This very gently sloping or gently sloping, well drained soil is on side slopes on old natural levees on the alluvial plain. The soil is loamy throughout. Natural fertility is medium or high. Water and air move through the soil at a moderate rate. Surface runoff is medium.

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Gk	GALLION SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	This well drained, level soil is on older natural levees on flood plains. It formed in alluvium deposited by the Red River. The soil is loamy throughout and has high natural fertility. Runoff is slow. In places, water collects in low spots for short periods after rains. Water and air move through the subsoil at a moderate rate. Adequate water is available to plants in most years.
Gm	GALLION-ARMISTEAD SOILS, MOUNDED, 0 TO 1 PERCENT SLOPES	These nearly level, well drained and somewhat poorly drained soils are on old natural levees on alluvial plains. The Gallion soil is on ridges and mounds and the Armistead soil is in low areas between the ridges and mounds. In most areas, the ridges and mounds have been smoothed for farming. The Gallion soil is loamy throughout. The Armistead soil has a clayey surface layer and a loamy subsoil. Water and air move through the subsoils at a moderate rate. Surface runoff is slow. Natural fertility is medium or high.
Go	GORE, MCKAMIE, AND FORBING (HORTMAN) SOILS, 1 TO 20 PERCENT SLOPES, SEVERELY ERODED	These gently sloping to moderately steep soils are on side slopes on terrace uplands. The soils are severely eroded. Numerous gullies cross most areas. The soils have a thin loamy surface layer and a clayey subsoil. Water and air move through the subsoils very slowly. Surface runoff is medium to rapid. Natural fertility is low.
Gr	GORE VERY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	This moderately well drained, very gently sloping to gently sloping soil is on uplands. It has a loamy surface layer and a clayey subsoil. The soil is acid throughout and has low fertility. Runoff is medium, and water moves very slowly through the subsoil. The shrink-swell potential is high or very high in the subsoil. In places, the soil is moderately eroded.
Gs	GORE VERY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This moderately well drained, very gently sloping to gently sloping soil is on uplands. It has a loamy surface layer and a clayey subsoil. The soil is acid throughout and has low fertility. Runoff is medium, and water moves very slowly through the subsoil. The shrink-swell potential is high or very high in the subsoil. In places, the soil is moderately eroded.
Gv	GORE VERY FINE SANDY LOAM, 5 TO 16 PERCENT SLOPES, ERODED	This moderately well drained, moderately sloping to strongly sloping soil is on side slopes on uplands. It has a loamy surface layer and a clayey subsoil. Runoff is rapid. Water and air move slowly or very slowly through the subsoil. The soil is acid throughout and has low fertility. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Ha	HANNAHATCHEE FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	This nearly level, well drained or moderately well drained soil is on narrow stream bottoms and fanlike foot slopes. It is subject to occasional or frequent flooding for brief periods. The soil is loamy throughout. Water and air move through the soil at a moderate rate. Natural fertility is low.

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Hn	GORE (HORTMAN) VERY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This moderately well drained, very gently sloping to gently sloping soil is on uplands. It has a loamy surface layer and a clayey subsoil. The soil is acid throughout and has low fertility. Runoff is medium, and water moves very slowly through the subsoil. The shrink-swell potential is high or very high in the subsoil. In places, the soil is moderately eroded.
Hr	GORE (HORTMAN) VERY FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES, ERODED	This moderately well drained, moderately sloping to strongly sloping soil is on side slopes on uplands. It has a loamy surface layer and a clayey subsoil. The soil is acid throughout and has low fertility. Runoff is rapid, and water moves very slowly through the subsoil. The subsoil has a very high shrink-swell potential. In places, the soil is moderately eroded.
Hs	BETIS (HUCKABEE) LOAMY FINE SAND, 1 TO 5 PERCENT SLOPES	This somewhat excessively drained, very gently sloping or gently sloping, sandy soil is on uplands. It has a very low available water capacity and very low natural fertility. Runoff is slow. Water moves rapidly through the soil.
Hu	BETIS (HUCKABEE) LOAMY FINE SAND, 5 TO 20 PERCENT SLOPES	This somewhat excessively drained, strongly sloping to steep, sandy soil is on uplands. It has a very low available water capacity and very low natural fertility. Runoff is slow. Water moves rapidly through the soil.
In	BIENVILLE (INDEPENDENCE) LOAMY FINE SAND, 0 TO 1 PERCENT SLOPES	This very gently sloping or gently sloping, somewhat excessively drained soil is on low stream terraces. It is sandy throughout. Permeability is moderately rapid. The available water capacity is low or very low. Natural fertility is low. The soil has a seasonal high water table in winter and spring.
Ka	CAHABA (KALMIA) VERY FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	This soil is moderately sloping and well drained. It is on terraces. The soil is loamy throughout. Natural fertility is low. Permeability is moderate. Runoff is medium. In places, the soil is moderately eroded.
Kr	MAHAN (KIRVIN) FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This well drained, very gently sloping to gently sloping soil is on uplands. It has a loamy surface layer and a clayey subsoil. Natural fertility is low. Runoff is medium. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Ks	MAHAN (KIRVIN) FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES, ERODED	This well drained, moderately sloping to strongly sloping soil is on uplands. It has a loamy or gravelly surface layer and a clayey subsoil. Natural fertility is low. Runoff is rapid. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Kt	MAHAN (KIRVIN) FINE SANDY LOAM, 8 TO 30 PERCENT SLOPES	This soil is well drained and moderately steep. It is on side slopes on uplands. The soil has a gravelly surface layer and a clayey and loamy subsoil. The subsoil has layers of fractured ironstone. Natural fertility is low. Permeability is moderately slow. Surface runoff is rapid.
Ku	DARLEY (KIRVIN) FINE SANDY LOAM, 5 TO 16 PERCENT SLOPES	This strongly sloping, well drained soil is on side

Map Symbol	Map Unit Name	Nontechnical Descriptions
	PERCENT SLOPES, SEVERELY ERODED	slopes on uplands. The surface layer is gravelly and the subsoil is clayey. Fractured layers of ironstone are in the subsoil. Natural fertility is medium. Permeability is moderately slow. Surface runoff is rapid. Ironstone fragments and layer reduce the available water capacity. In places, the soil is moderately eroded.
Kv	DARLEY (KIRVIN) GRAVELLY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	This gently sloping, well drained soil is on upland ridgetops. It has a gravelly surface layer and a clayey subsoil. Fractured layers of ironstone are in the subsoil. Natural fertility is medium. Permeability is moderately slow. Surface runoff is medium. Ironstone fragments and layers reduce the available water capacity. In places, the soil is moderately eroded.
Kw	DARLEY (KIRVIN) GRAVELLY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This gently sloping, well drained soil is on upland ridgetops. It has a gravelly surface layer and a clayey subsoil. Fractured layers of ironstone are in the subsoil. Natural fertility is medium. Permeability is moderately slow. Surface runoff is medium. Ironstone fragments and layers reduce the available water capacity. In places, the soil is moderately eroded.
Kx	DARLEY (KIRVIN) GRAVELLY FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES, ERODED	This strongly sloping, well drained soil is on side slopes on uplands. The surface layer is gravelly and the subsoil is clayey. Fractured layers of ironstone are in the subsoil. Natural fertility is medium. Permeability is moderately slow. Surface runoff is rapid. Ironstone fragments and layer reduce the available water capacity. In places, the soil is moderately eroded.
Ky	DARLEY (KIRVIN) GRAVELLY FINE SANDY LOAM, 8 TO 30 PERCENT SLOPES , ERODED	This soil is well drained and moderately steep. It is on side slopes on uplands. The soil has a gravelly surface layer and a clayey and loamy subsoil. The subsoil has layers of fractured ironstone. Natural fertility is low. Permeability is moderately slow. Surface runoff is rapid.
La	BETIS (LAKELAND AND EUSTIS) LOAMY FINE SANDS, 1 TO 5 PERCENT SLOPES	This somewhat excessively drained, very gently sloping or gently sloping, sandy soil is on uplands. It has a very low available water capacity and very low natural fertility. Runoff is slow. Water moves rapidly through the soil.
Lb	BETIS (LAKELAND AND EUSTIS) LOAMY FINE SAND, 5 TO 8 PERCENT SLOPES	This somewhat excessively drained, strongly sloping to steep, sandy soil is on uplands. It has a very low available water capacity and very low natural fertility. Runoff is slow. Water moves rapidly through the soil.
Lc	BETIS (LAKELAND AND EUSTIS) LOAMY FINE SAND, 8 TO 20 PERCENT SLOPES	This somewhat excessively drained, strongly sloping to steep, sandy soil is on uplands. It has a very low available water capacity and very low natural fertility. Runoff is slow. Water moves rapidly through the soil.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Ld	BETIS (LAKELAND AND EUSTIS) LOAMY FINE SAND, 5 TO 16 PERCENT SLO P ES, SEVERELY ERODED	This somewhat excessively drained, strongly sloping to steep, sandy soil is on uplands. It has a very low available water capacity and very low natural fertility. Runoff is slow. Water moves rapidly through the soil.
Lf	MAHAN (LUVERNE) FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This well drained, very gently sloping to gently sloping soil is on uplands. It has a loamy surface layer and a clayey subsoil. Natural fertility is low. Runoff is medium. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Lg	MAHAN (LUVERNE) FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES, ERODED	This well drained, moderately sloping to strongly sloping soil is on uplands. It has a loamy or gravelly surface layer and a clayey subsoil. Natural fertility is low. Runoff is rapid. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Lh	MAHAN (LUVERNE) FINE SANDY LOAM, 8 TO 20 PERCENT SLOPES, ERODED	This well drained, moderately sloping to strongly sloping soil is on uplands. It has a loamy or gravelly surface layer and a clayey subsoil. Natural fertility is low. Runoff is rapid. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Lk	MAHAN (LUVERNE) GRAVELLY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	This well drained, very gently sloping to gently sloping soil is on uplands. It has a loamy surface layer and a clayey subsoil. Natural fertility is low. Runoff is medium. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Lm	MAHAN (LUVERNE) GRAVELLY FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES	This well drained, moderately sloping to strongly sloping soil is on uplands. It has a loamy or gravelly surface layer and a clayey subsoil. Natural fertility is low. Runoff is rapid. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Ln	BRILEY (LUVERNE) LOAMY FINE SAND, THICK SURFACE, 1 TO 5 PERCENT SLOPES	This well drained, gently sloping soil is on uplands. It has thick sandy surface and subsurface layers and a loamy subsoil. Natural fertility is low. Runoff is slow. Water and air move rapidly through the sandy surface and subsurface layers, and they move at a moderate rate through the loamy subsoil. The available water capacity is low.
Lo	BRILEY (LUVERNE) LOAMY FINE SAND, THICK SURFACE, 5 TO 8 PERCENT SLOPES	This is a well drained, strongly sloping to moderately steep soil on uplands. It has thick sandy surface and subsurface layers and a loamy subsoil. The soil has low fertility and a low or moderate available water capacity. Permeability is rapid in the upper part of the soil and moderate in the lower part. Surface runoff is medium.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Lp	MAHAN (LUVERNE) SOILS, 1 TO 20 PERCENT SLOPES, SEVERELY ERODED	This well drained, moderately sloping to strongly sloping soil is on uplands. It has a loamy or gravelly surface layer and a clayey subsoil. Natural fertility is low. Runoff is rapid. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Ma	GUYTON-IUKA (MANTACHIE) VERY FINE SANDY LOAMS	These level soils are on narrow flood plains. They are subject to frequent flooding. The poorly drained Guyton soil is in low areas. The moderately well drained Iuka soil is on ridges and natural levees. The Guyton soil is loamy throughout. It has slow permeability. The Iuka soil has a loamy surface layer and a sandy and loamy underlying material. Both soils have a seasonal high water table in winter and spring. Natural fertility is low.
MaA	KOLIN (MUSKOGEE) COMPLEX, MOUNDED, 1 TO 3 PERCENT SLOPES	This moderately well drained, very gently sloping or gently sloping soil is on terraces. It is loamy in the upper part of the subsoil and clayey in the lower part. Natural fertility is low or moderately low. Runoff is slow to medium. Water and air move slowly or very slowly through the clayey part of the subsoil. A seasonal high water table is perched on the clayey subsoil for long periods in winter and spring. In places, the soil is moderately eroded.
MaB	KOLIN (MUSKOGEE) SILT LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This moderately well drained, very gently sloping or gently sloping soil is on terraces. It is loamy in the upper part of the subsoil and clayey in the lower part. Natural fertility is low or moderately low. Runoff is slow to medium. Water and air move slowly or very slowly through the clayey part of the subsoil. A seasonal high water table is perched on the clayey subsoil for long periods in winter and spring. In places, the soil is moderately eroded.
MaC	KOLIN (MUSKOGEE) SILT LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This moderately well drained, very gently sloping or gently sloping soil is on terraces. It is loamy in the upper part of the subsoil and clayey in the lower part. Natural fertility is low or moderately low. Runoff is slow to medium. Water and air move slowly or very slowly through the clayey part of the subsoil. A seasonal high water table is perched on the clayey subsoil for long periods in winter and spring. In places, the soil is moderately eroded.
MaD	KOLIN (MUSKOGEE) SOILS, 1 TO 8 PERCENT SLOPES, SEVERELY ERODED	This moderately well drained, very gently sloping or gently sloping soil is on terraces. It is loamy in the upper part of the subsoil and clayey in the lower part. Natural fertility is low or moderately low. Runoff is slow to medium. Water and air move slowly or very slowly through the clayey part of the subsoil. A seasonal high water table is perched on the clayey subsoil for long periods in winter and spring. In places, the soil is moderately eroded.

Map Symbol	Map Unit Name	Nontechnical Descriptions
MaE	GUYTON-MESSER (MYATT) COMPLEX, MOUNDED	These Caddo and Messer soils are in broad areas on the terrace uplands. The Caddo soil is poorly drained and is in swales and on level areas. It makes up most of the map unit. The Messer soil is moderately well drained and is on mounds and low ridges. Both soils are acid and loamy throughout the profile. Permeability is slow in both soils. Runoff is slow on the Caddo soil and medium on the Messer soil. Both soils have a seasonal high water table for long periods in winter and spring.
MaF	GUYTON (MYATT) SILT LOAM	This soil is level and poorly drained. It is subject to rare flooding. The soil is on broad flats and in slightly depressional areas on terraces. Typically, the soil is acid and loamy throughout. Natural fertility is low. Permeability is slow or moderately slow. Water runs off the surface at a slow rate and stands in low places for short to long periods after rains. A seasonal high water table is near the surface for long periods in winter and spring. The shrink-swell potential is low or moderate.
MaG	GUYTON-MESSER (MYATT-STOUGH) COMPLEX, OVERFLOW	These poorly drained Guyton (Myatt) soils and moderately well drained Messer (Stough) soils are on low terraces. They are subject to frequent flooding for brief periods. The Messer soil is on small mounds, and the Guyton soil is in intermound areas. Both soils are loamy throughout. Water and air move through the soils at a moderately slow or slow rate. The soils have a seasonal high water table in winter and spring. Natural fertility is low.
Mb	MCKAMIE VERY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	This well drained, very gently sloping to gently sloping soil is on uplands. It has a loamy surface layer and a clayey subsoil. Natural fertility is low. Runoff is medium. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Mc	MCKAMIE VERY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This well drained, very gently sloping to gently sloping soil is on uplands. It has a loamy surface layer and a clayey subsoil. Natural fertility is low. Runoff is medium. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Md	MCKAMIE VERY FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES, ERODED	This well drained, moderately sloping to strongly sloping soil is on uplands. It has a loamy or gravelly surface layer and a clayey subsoil. Natural fertility is low. Runoff is rapid. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Me	MCKAMIE AND FORBING (HORTMAN) SOILS, 8 TO 20 PERCENT SLOPES	This well drained, moderately sloping to strongly sloping soil is on uplands. It has a loamy or gravelly surface layer and a clayey subsoil. Natural fertility is low. Runoff is rapid. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Mg	MORELAND (MILLER) CLAY, 0 TO 1 PERCENT SLOPES	This somewhat poorly drained, level soil is on flood plains. It formed in Red River alluvium. The soil has a clayey surface layer and a clayey subsoil. Natural fertility is high. Runoff is slow. Water and air move very slowly through the subsoil. A seasonal high water table is near the surface for long periods in winter and spring. The shrink-swell potential is very high in the subsoil.
Mh	MORELAND (MILLER) CLAY, 1 TO 3 PERCENT SLOPES	This gently sloping to moderately sloping, somewhat poorly drained soil is on side slopes near old distributary channels on alluvial plains. Slopes are short. The soil is clayey throughout. Water and air move through the soil very slowly. Surface runoff is medium. Natural fertility is high. The soil has a seasonal high water table for long periods in winter and spring.
Mk	MORELAND (MILLER) CLAY, 3 TO 8 PERCENT SLOPES	This gently sloping to moderately sloping, somewhat poorly drained soil is on side slopes near old distributary channels on alluvial plains. Slopes are short. The soil is clayey throughout. Water and air move through the soil very slowly. Surface runoff is medium. Natural fertility is high. The soil has a seasonal high water table for long periods in winter and spring.
Mm	MORELAND (MILLER) CLAY, OVERFLOW, 0 TO 1 PERCENT SLOPES	This somewhat poorly drained, level soil is on the flood plain of the Red River. It is subject to frequent flooding for long periods. The soil is clayey throughout. Natural fertility is high. A seasonal high water table is near the surface in winter and spring. Water and air move very slowly through the soil. Cracks form when the soil dries. The soil has a very high shrink-swell potential.
Mn	MORELAND (MILLER) CLAY, UNDULATING	This somewhat poorly drained, clayey soil is on short irregular slopes in a ridge-and-swale topography on the flood plain. The soil is clayey throughout. Natural fertility is medium or high. Runoff is medium on the ridges. Water accumulates for short periods in the swales after rains. A seasonal high water table is near the surface in winter and spring. This soil has a very high shrink-swell potential.
Mo	MORELAND (MILLER) SILT LOAM, 0 TO 1 PERCENT SLOPES	This somewhat poorly drained, level soil is on the flood plain of the Red River. It has a loamy surface layer and a clayey subsoil. Natural fertility is high. Runoff is slow. Water and air move very slowly through the subsoil. A seasonal high water table is near the surface for long periods in winter and spring. The shrink-swell potential is very high in the subsoil.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Mp	MORELAND (MILLER) SILT LOAM, 1 TO 3 PERCENT SLOPES	This somewhat poorly drained, clayey soil is on short irregular slopes in a ridge-and-swale topography on the flood plain. The soil is clayey throughout. Natural fertility is medium or high. Runoff is medium on the ridges. Water accumulates for short periods in the swales after rains. A seasonal high water table is near the surface in winter and spring. This soil has a very high shrink-swell potential.
Mr	MORELAND (MILLER) SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	This somewhat poorly drained, level soil is on the flood plain of the Red River. It has a loamy surface layer and a clayey subsoil. Natural fertility is high. Runoff is slow. Water and air move very slowly through the subsoil. A seasonal high water table is near the surface for long periods in winter and spring. The shrink-swell potential is very high in the subsoil.
Ms	OCHLOCKONEE (MIXED ALLUVIAL LAND) FINE SANDY LOAM	This nearly level, well drained or moderately well drained soil is on narrow stream bottoms and fanlike foot slopes. It is subject to occasional or frequent flooding for brief periods. The soil is loamy throughout. Water and air move through the soil at a moderate rate. Natural fertility is low.
Mt	GUYTON-IUKA (MIXED WET ALLUVIAL LAND)	These level soils are on narrow flood plains. They are subject to frequent flooding. The poorly drained Guyton soil is in low areas. The moderately well drained Iuka soil is on ridges and natural levees. The Guyton soil is loamy throughout. It has slow permeability. The Iuka soil has a loamy surface layer and a sandy and loamy underlying material. Both soils have a seasonal high water table in winter and spring. Natural fertility is low.
Mu	MORSE CLAY, 1 TO 5 PERCENT SLOPES, ERODED	This well drained, very gently sloping to gently sloping soil is on uplands. It is clayey and alkaline throughout. Natural fertility is low. Runoff is medium to rapid. The soil has a very high shrink-swell potential. Deep, wide cracks form in the soil during dry periods.
Mv	MORSE CLAY, 5 TO 8 PERCENT SLOPES, ERODED	This soil is strongly sloping and well drained. It is on uplands. The soil is alkaline throughout. It is clayey throughout, or it has a loamy surface layer and a clayey and loamy subsoil. Natural fertility is low. Permeability is very slow. Surface runoff is rapid. The soil has a high shrink-swell potential. In places, the soil is moderately eroded.
Mw	MORSE CLAY, 8 TO 20 PERCENT SLOPES, ERODED	This strongly sloping, moderately well drained soil is on side slopes on uplands. It has a loamy surface layer and a clayey subsoil. The soil is acid in the upper part and neutral or alkaline in the lower part. Natural fertility is low. Permeability is very slow. Surface runoff is rapid. The soil has a high shrink-swell potential in the subsoil.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Mx	MORSE CLAY, 3 TO 8 PERCENT SLOPES, SEVERELY ERODED	This soil is strongly sloping and well drained. It is on uplands. The soil is alkaline throughout. It is clayey throughout, or it has a loamy surface layer and a clayey and loamy subsoil. Natural fertility is low. Permeability is very slow. Surface runoff is rapid. The soil has a high shrink-swell potential. In places, the soil is moderately eroded.
My	MORSE CLAY, DARK SURFACE, 1 TO 5 PERCENT SLOPES	This well drained, very gently sloping to gently sloping soil is on uplands. It is clayey and alkaline throughout. Natural fertility is low. Runoff is medium to rapid. The soil has a very high shrink-swell potential. Deep, wide cracks form in the soil during dry periods.
Mz	MORSE CLAY, DARK SURFACE, 1 TO 5 PERCENT SLOPES, ERODED	This well drained, very gently sloping to gently sloping soil is on uplands. It is clayey and alkaline throughout. Natural fertility is low. Runoff is medium to rapid. The soil has a very high shrink-swell potential. Deep, wide cracks form in the soil during dry periods.
Na	NACOGDOCHES GRAVELLY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This gently sloping, well drained soil is on upland ridgetops. It has a gravelly surface layer and a clayey subsoil. Fractured layers of ironstone are in the subsoil. Natural fertility is medium. Permeability is moderately slow. Surface runoff is medium. Ironstone fragments and layers reduce the available water capacity. In places, the soil is moderately eroded.
Nc	NACOGDOCHES GRAVELLY FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES, ERODED	This strongly sloping, well drained soil is on side slopes on uplands. The surface layer is gravelly and the subsoil is clayey. Fractured layers of ironstone are in the subsoil. Natural fertility is medium. Permeability is moderately slow. Surface runoff is rapid. Ironstone fragments and layer reduce the available water capacity. In places, the soil is moderately eroded.
Ng	DARLEY (NACOGDOCHES) GRAVELLY FINE SANDY LOAM, 8 TO 30 PERCENT SLOPES, ERODED	This soil is well drained and moderately steep. It is on side slopes on uplands. The soil has a gravelly surface layer and a clayey and loamy subsoil. The subsoil has layers of fractured ironstone. Natural fertility is low. Permeability is moderately slow. Surface runoff is rapid.
Ns	DARLEY (NACOGDOCHES) SOILS, 5 TO 30 PERCENT SLOPES, SEVERELY ERODED	This soil is well drained and moderately steep. It is on side slopes on uplands. The soil has a gravelly surface layer and a clayey and loamy subsoil. The subsoil has layers of fractured ironstone. Natural fertility is low. Permeability is moderately slow. Surface runoff is rapid.
Oc	OCHLOCKONEE AND IUKA SANDY LOAMS	These level soils are on flood plains. They are frequently flooded. The moderately well drained Iuka soil is on low ridges. The well drained Ochlockonee soil is on the higher ridges. Both soils are loamy throughout. Natural fertility is low. The Iuka soil has a seasonal high water table.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Of	RUSTON (ORANGEBURG) FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	This well drained, very gently sloping to gently sloping soil is on uplands. It is loamy and acid throughout. Natural fertility is low. Runoff is medium. Water and air move through the soil at a moderate rate. Plant roots penetrate this soil easily. The soil dries quickly after rains. In places, the soil is moderately eroded.
Og	RUSTON (ORANGEBURG) FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This well drained, very gently sloping to gently sloping soil is on uplands. It is loamy and acid throughout. Natural fertility is low. Runoff is medium. Water and air move through the soil at a moderate rate. Plant roots penetrate this soil easily. The soil dries quickly after rains. In places, the soil is moderately eroded.
Om	RUSTON (ORANGEBURG) FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES	This well drained, gently sloping to moderately sloping soil is on uplands. It is loamy and acid throughout. Natural fertility is low. Runoff is rapid. Movement of air and water through the soil is moderate. Plant roots penetrate the soil easily. In places, the soil is moderately eroded.
Or	RUSTON (ORANGEBURG) FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES, ERODED	This well drained, gently sloping to moderately sloping soil is on uplands. It is loamy and acid throughout. Natural fertility is low. Runoff is rapid. Movement of air and water through the soil is moderate. Plant roots penetrate the soil easily. In places, the soil is moderately eroded.
Ou	SMITHDALE (ORANGEBURG AND RUSTON) FINE SANDY LOAMS, 8 TO 20 PERCENT SLOPES, ERODED	This well drained, strongly sloping or moderately steep soil is on side slopes on uplands. It is loamy and acid throughout. Natural fertility is low. Runoff is rapid. Movement of water and air through the soil is moderate. In places, the soil is moderately eroded.
Pa	PERRY CLAY	This nearly level, poorly drained, clayey soil is on the alluvial plain along the Boeuf River. It is clayey throughout the profile. Natural fertility is moderately low. Surface runoff is slow to very slow. Water and air move very slowly through the soil. A seasonal high water table ranges from near the surface to 2 feet below the surface during December through April. The shrink-swell potential is very high. Deep cracks form when the soil is dry and close when it is wet. Slopes are less than 1 percent.
Pb	PERRY CLAY, OVERFLOW	This poorly drained, level soil is on flood plains. It formed in Red River alluvium. The soil is subject to frequent flooding for long periods. The soil is clayey throughout. Natural fertility is medium. Runoff is very slow, and water moves very slowly through the soil. A seasonal high water table is near the surface for long periods in winter and spring. During dry periods, deep, wide cracks form in the soil. The shrink-swell potential is very high.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Pe	PERRY SOILS, OVERFLOW	This poorly drained, level soil is on flood plains. It formed in Red River alluvium. The soil is subject to frequent flooding for long periods. The soil is clayey throughout. Natural fertility is medium. Runoff is very slow, and water moves very slowly through the soil. A seasonal high water table is near the surface for long periods in winter and spring. During dry periods, deep, wide cracks form in the soil. The shrink-swell potential is very high.
Ph	SAVANNAH (PHEBA) COMPLEX, MOUNDED, 0 TO 3 PERCENT SLOPES	This moderately well drained, very gently sloping or gently sloping soil is on terraces or uplands. It is loamy throughout and has a fragipan in the subsoil which restricts plant roots. Natural fertility is low or moderately low. Runoff is medium. Water and air move through the upper part of the subsoil at a moderate rate, and they move slowly or moderately slowly through the fragipan. A seasonal high water table perches on the fragipan for short periods. In places, the soil is moderately eroded.
Pk	SAVANNAH (PHEBA) VERY FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES	This moderately well drained, very gently sloping or gently sloping soil is on terraces or uplands. It is loamy throughout and has a fragipan in the subsoil which restricts plant roots. Natural fertility is low or moderately low. Runoff is medium. Water and air move through the upper part of the subsoil at a moderate rate, and they move slowly or moderately slowly through the fragipan. A seasonal high water table perches on the fragipan for short periods. In places, the soil is moderately eroded.
Pm	PRENTISS COMPLEX, MOUNDED, 0 TO 1 PERCENT SLOPES	This soil is level, moderately well drained, and has a fragipan. It is on ridges on terraces. The soil is loamy throughout. Natural fertility is low. Permeability is moderate in the upper part of the soil and moderately slow in the fragipan. Surface runoff is medium. A seasonal high water table is perched above the fragipan.
Pn	PRENTISS COMPLEX, MOUNDED, 1 TO 5 PERCENT SLOPES	This soil is very gently sloping or gently sloping, moderately well drained, and has a fragipan. It is on ridges on terraces. The soil is loamy throughout. Natural fertility is low. Permeability is moderate in the upper part of the soil and moderately slow in the fragipan. Surface runoff is medium. A seasonal high water table is perched above the fragipan.
Po	SHATTA (PRENTISS) VERY FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	This moderately well drained, very gently sloping or gently sloping soil is on terraces or uplands. It is loamy throughout and has a fragipan in the subsoil which restricts plant roots. Natural fertility is low or moderately low. Runoff is medium. Water and air move through the upper part of the subsoil at a moderate rate, and they move slowly or moderately slowly through the fragipan. A seasonal high water table perches on the fragipan for short periods. In places, the soil is moderately eroded.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Pp	SHATTA (PRENTISS) VERY FINE SANDY LOAM, CLAY SUBSTRATUM, 0 TO 1 PERCENT SLOPES	This moderately well drained, very gently sloping or gently sloping soil is on terraces or uplands. It is loamy throughout and has a fragipan in the subsoil which restricts plant roots. Natural fertility is low or moderately low. Runoff is medium. Water and air move through the upper part of the subsoil at a moderate rate, and they move slowly or moderately slowly through the fragipan. A seasonal high water table perches on the fragipan for short periods. In places, the soil is moderately eroded.
Pr	SHATTA (PRENTISS) VERY FINE SANDY LOAM, CLAY SUBSTRATUM, 1 TO 5 PERCENT SLOPES	This moderately well drained, very gently sloping or gently sloping soil is on terraces or uplands. It is loamy throughout and has a fragipan in the subsoil which restricts plant roots. Natural fertility is low or moderately low. Runoff is medium. Water and air move through the upper part of the subsoil at a moderate rate, and they move slowly or moderately slowly through the fragipan. A seasonal high water table perches on the fragipan for short periods. In places, the soil is moderately eroded.
Ps	SHATTA (PRENTISS) VERY FINE SANDY LOAM, CLAY SUBSTRATUM, 1 TO 5 PERCENT SLOPES, ERODED	This moderately well drained, very gently sloping or gently sloping soil is on terraces or uplands. It is loamy throughout and has a fragipan in the subsoil which restricts plant roots. Natural fertility is low or moderately low. Runoff is medium. Water and air move through the upper part of the subsoil at a moderate rate, and they move slowly or moderately slowly through the fragipan. A seasonal high water table perches on the fragipan for short periods. In places, the soil is moderately eroded.
Pt	SHATTA (PRENTISS AND STOUGH) SILT LOAM, CLAY SUBSTRATA, 0 TO 1 PERCENT SLOPES	This moderately well drained, very gently sloping or gently sloping soil is on terraces or uplands. It is loamy throughout and has a fragipan in the subsoil which restricts plant roots. Natural fertility is low or moderately low. Runoff is medium. Water and air move through the upper part of the subsoil at a moderate rate, and they move slowly or moderately slowly through the fragipan. A seasonal high water table perches on the fragipan for short periods. In places, the soil is moderately eroded.
Pv	PRENTISS AND SHATTA (TILDEN) VERY FINE SANDY LOAMS, 1 TO 5 PERCENT SLOPES	These gently sloping, moderately well drained soils are on terraces. They have a fragipan in the subsoil. The soils have a loamy surface layer and loamy subsoil. Water and air move through the fragipan at a moderately slow or slow rate. Surface runoff is medium. Natural fertility is low.
Pw	PRENTISS AND SHATTA (TILDEN) VERY FINE SANDY LOAMS, 1 TO 5 PERCENT SLOPES, ERODED	These gently sloping, moderately well drained soils are on terraces. They have a fragipan in the subsoil. The soils have a loamy surface layer and loamy subsoil. Water and air move through the fragipan at a moderately slow or slow rate. Surface runoff is medium. Natural fertility is low.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Ra	SEVERN (RIVERWASH)	This well drained, undulating soil is on ridges and swales on the Red River alluvial plain. It is on the unprotected side of the man-made levee and is subject to frequent flooding. This soil is loamy throughout and has high fertility. Runoff is slow. Movement of water and air through the soil is moderate.
Rb	MORELAND (ROEBUCK) CLAY, 0 TO 1 PERCENT SLOPES	This somewhat poorly drained, level soil is on flood plains. It formed in Red River alluvium. The soil has a clayey surface layer and a clayey subsoil. Natural fertility is high. Runoff is slow. Water and air move very slowly through the subsoil. A seasonal high water table is near the surface for long periods in winter and spring. The shrink-swell potential is very high in the subsoil.
Rc	MORELAND (ROEBUCK) CLAY, 1 TO 3 PERCENT SLOPES	This somewhat poorly drained, clayey soil is on short irregular slopes in a ridge-and-swale topography on the flood plain. The soil is clayey throughout. Natural fertility is medium or high. Runoff is medium on the ridges. Water accumulates for short periods in the swales after rains. A seasonal high water table is near the surface in winter and spring. This soil has a very high shrink-swell potential.
Rd	MORELAND (ROEBUCK) CLAY, OVERFLOW, 0 TO 1 PERCENT SLOPES	This somewhat poorly drained, level soil is on the flood plain of the Red River. It is subject to frequent flooding for long periods. The soil is clayey throughout. Natural fertility is high. A seasonal high water table is near the surface in winter and spring. Water and air move very slowly through the soil. Cracks form when the soil dries. The soil has a very high shrink-swell potential.
Re	MORELAND (ROEBUCK) CLAY, UNDULATING	This somewhat poorly drained, clayey soil is on short irregular slopes in a ridge-and-swale topography on the flood plain. The soil is clayey throughout. Natural fertility is medium or high. Runoff is medium on the ridges. Water accumulates for short periods in the swales after rains. A seasonal high water table is near the surface in winter and spring. This soil has a very high shrink-swell potential.
Rf	MORELAND (ROEBUCK) SILT LOAM, 0 TO 1 PERCENT SLOPES	This somewhat poorly drained, level soil is on the flood plain of the Red River. It has a loamy surface layer and a clayey subsoil. Natural fertility is high. Runoff is slow. Water and air move very slowly through the subsoil. A seasonal high water table is near the surface for long periods in winter and spring. The shrink-swell potential is very high in the subsoil.
Rg	RUSTON FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	This well drained, very gently sloping to gently sloping soil is on uplands. It is loamy and acid throughout. Natural fertility is low. Runoff is medium. Water and air move through the soil at a moderate rate. Plant roots penetrate this soil easily. The soil dries quickly after rains. In places, the soil is moderately eroded.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Rh	RUSTON FINE SANDY LOAM, 1 TO 5 PERCENT, ERODED	This well drained, very gently sloping to gently sloping soil is on uplands. It is loamy and acid throughout. Natural fertility is low. Runoff is medium. Water and air move through the soil at a moderate rate. Plant roots penetrate this soil easily. The soil dries quickly after rains. In places, the soil is moderately eroded.
Rk	RUSTON FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES	This well drained, gently sloping to moderately sloping soil is on uplands. It is loamy and acid throughout. Natural fertility is low. Runoff is rapid. Movement of air and water through the soil is moderate. Plant roots penetrate the soil easily. In places, the soil is moderately eroded.
Rm	RUSTON FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES, ERODED	This well drained, gently sloping to moderately sloping soil is on uplands. It is loamy and acid throughout. Natural fertility is low. Runoff is rapid. Movement of air and water through the soil is moderate. Plant roots penetrate the soil easily. In places, the soil is moderately eroded.
Rn	ORA (RUSTON) FINE SANDY LOAM , (HARD SUBSTRATUM), 1 TO 5 PERCENT SLOPES	This moderately well drained, very gently sloping or gently sloping soil is on terraces or uplands. It is loamy throughout and has a fragipan in the subsoil which restricts plant roots. Natural fertility is low or moderately low. Runoff is medium. Water and air move through the upper part of the subsoil at a moderate rate, and they move slowly or moderately slowly through the fragipan. A seasonal high water table perches on the fragipan for short periods. In places, the soil is moderately eroded.
Ro	ORA (RUSTON) FINE SANDY LOAM, (HARD SUBSTRATUM), 1 TO 5 PERCENT SLOPES, ERODED	This moderately well drained, very gently sloping or gently sloping soil is on terraces or uplands. It is loamy throughout and has a fragipan in the subsoil which restricts plant roots. Natural fertility is low or moderately low. Runoff is medium. Water and air move through the upper part of the subsoil at a moderate rate, and they move slowly or moderately slowly through the fragipan. A seasonal high water table perches on the fragipan for short periods. In places, the soil is moderately eroded.
Rs	ORA (RUSTON) FINE SANDY LOAM, (HARD SUBSTRATUM), 5 TO 8 PERCENT SLOPES	This is a strongly sloping, moderately well drained soil on terraces. The soil is loamy throughout, and it has a fragipan in the subsoil. Natural fertility is low. Permeability is moderately slow in the fragipan. Surface runoff is rapid.
Rt	ORA (RUSTON) FINE SANDY LOAM, (HARD SUBSTRATUM), 5 TO 8 PERCENT SLOPES, ERODED	This is a strongly sloping, moderately well drained soil on terraces. The soil is loamy throughout, and it has a fragipan in the subsoil. Natural fertility is low. Permeability is moderately slow in the fragipan. Surface runoff is rapid.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Ru	RUSTON SOILS, 1 TO 8 PERCENT SLOPES, SEVERELY ERODED	This well drained, gently sloping to moderately sloping soil is on uplands. It is loamy and acid throughout. Natural fertility is low. Runoff is rapid. Movement of air and water through the soil is moderate. Plant roots penetrate the soil easily. In places, the soil is moderately eroded.
Sa	SAVANNAH AND BOWIE VERY FINE SANDY LOAMS, 1 TO 5 PERCENT SLOPES	These gently sloping, moderately well drained soils are on uplands. The soils are loamy throughout. The Savannah soil has a fragipan, and the Bowie soil has none. Water and air move through the soils at a slow or moderately slow rate. Surface runoff is medium. Natural fertility is low. In places, the soils are moderately eroded.
SaA	EASTWOOD (SUSQUEHANNA) SOILS, 8 TO 30 PERCENT SLOPES, ERODED	This moderately steep and steep, moderately well drained soil is on side slopes on uplands. The soil has a loamy surface layer and a clayey and loamy subsoil. Permeability is slow. The soil has a seasonal high water table in winter and spring. Natural fertility is low. In places, the soil is moderately eroded.
SaB	EASTWOOD (SUSQUEHANNA) SOILS, 5 TO 30 PERCENT SLOPES, SEVERELY ERODED	This moderately steep and steep, moderately well drained soil is on side slopes on uplands. The soil has a loamy surface layer and a clayey and loamy subsoil. Permeability is slow. The soil has a seasonal high water table in winter and spring. Natural fertility is low. In places, the soil is moderately eroded.
Sb	SAVANNAH AND BOWIE VERY FINE SANDY LOAMS, 1 TO 5 PERCENT SLOPES, ERODED	These gently sloping, moderately well drained soils are on uplands. The soils are loamy throughout. The Savannah soil has a fragipan, and the Bowie soil has none. Water and air move through the soils at a slow or moderately slow rate. Surface runoff is medium. Natural fertility is low. In places, the soils are moderately eroded.
Sc	METCALF (SAWYER) FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	This moderately well drained, very gently sloping or gently sloping soil is on terraces. It is loamy in the upper part of the subsoil and clayey in the lower part. Natural fertility is low or moderately low. Runoff is slow to medium. Water and air move slowly or very slowly through the clayey part of the subsoil. A seasonal high water table is perched on the clayey subsoil for long periods in winter and spring. In places, the soil is moderately eroded.
Sd	METCALF (SAWYER) FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This moderately well drained, very gently sloping or gently sloping soil is on terraces. It is loamy in the upper part of the subsoil and clayey in the lower part. Natural fertility is low or moderately low. Runoff is slow to medium. Water and air move slowly or very slowly through the clayey part of the subsoil. A seasonal high water table is perched on the clayey subsoil for long periods in winter and spring. In places, the soil is moderately eroded.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Se	SACUL (SHUBUTA) FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	This moderately well drained, gently sloping soil is on ridgetops on uplands. It has a loamy surface layer and a clayey subsoil. Runoff is medium. Water and air move slowly or very slowly through the subsoil. The soil is acid throughout and has low fertility. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Sf	SACUL (SHUBUTA) FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This moderately well drained, gently sloping soil is on ridgetops on uplands. It has a loamy surface layer and a clayey subsoil. Runoff is medium. Water and air move slowly or very slowly through the subsoil. The soil is acid throughout and has low fertility. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Sg	SACUL (SHUBUTA) FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES	This moderately well drained, moderately sloping to strongly sloping soil is on side slopes on uplands. It has a loamy surface layer and a clayey subsoil. Runoff is rapid. Water and air move slowly or very slowly through the subsoil. The soil is acid throughout and has low fertility. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Sh	SACUL (SHUBUTA) FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES, ERODED	This moderately well drained, moderately sloping to strongly sloping soil is on side slopes on uplands. It has a loamy surface layer and a clayey subsoil. Runoff is rapid. Water and air move slowly or very slowly through the subsoil. The soil is acid throughout and has low fertility. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Sk	SACUL (SHUBUTA) FINE SANDY LOAM, 8 TO 16 PERCENT SLOPES, ERODED	This moderately well drained, moderately sloping to strongly sloping soil is on side slopes on uplands. It has a loamy surface layer and a clayey subsoil. Runoff is rapid. Water and air move slowly or very slowly through the subsoil. The soil is acid throughout and has low fertility. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Sm	SHUBUTA GRAVELLY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	This well drained, very gently sloping to gently sloping soil is on uplands. It has a loamy surface layer and a clayey subsoil. Natural fertility is low. Runoff is medium. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Sn	SHUBUTA GRAVELLY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERODED	This well drained, very gently sloping to gently sloping soil is on uplands. It has a loamy surface layer and a clayey subsoil. Natural fertility is low. Runoff is medium. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
So	SHUBUTA GRAVELLY FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES	This well drained, moderately sloping to strongly sloping soil is on uplands. It has a loamy or gravelly surface layer and a clayey subsoil. Natural fertility is low. Runoff is rapid. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Sp	SHUBUTA GRAVELLY FINE SANDY LOAM, 5 TO 8 PERCENT SLOPES	This well drained, moderately sloping to strongly sloping soil is on uplands. It has a loamy or gravelly surface layer and a clayey subsoil. Natural fertility is low. Runoff is rapid. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.

Map Symbol	Map Unit Name	Nontechnical Descriptions
	PERCENT SLOPES, ERODED	sloping soil is on uplands. It has a loamy or gravelly surface layer and a clayey subsoil. Natural fertility is low. Runoff is rapid. Water and air move very slowly through the subsoil. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Sr	SACUL (SHUBUTA) GRAVELLY FINE SANDY LOAM, 8 TO 20 PERCENT SLOPES	This moderately well drained, moderately sloping to strongly sloping soil is on side slopes on uplands. It has a loamy surface layer and a clayey subsoil. Runoff is rapid. Water and air move slowly or very slowly through the subsoil. The soil is acid throughout and has low fertility. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.
Ss	SACUL (SHUBUTA) SOILS, 5 TO 30 PERCENT SLOPES, SEVERELY ERODED	This moderately steep and steep, moderately well drained soil is on side slopes on uplands. The soil has a loamy surface layer and a clayey and loamy subsoil. Permeability is slow. The soil has a seasonal high water table in winter and spring. Natural fertility is low. In places, the soil is moderately eroded.
St	SACUL (SHUBUTA)-BOSWELL GRAVELLY SANDY LOAMS, 8 TO 30 PERCENT SLOPES ERODED	These strongly sloping to steep, moderately well drained soils are on uplands. The Shubuta soil is on narrow ridgetops and the upper parts of side slopes. The Boswell soil is on the middle and lower parts of side slopes. Both soils have a gravelly surface layer and a clayey subsoil. Water and air move slowly or very slowly through the subsoils. Surface runoff is rapid. Natural fertility is low.
Su	SACUL (SHUBUTA) AND DARLEY (CUTHBERT) GRAVELLY SANDY LOAMS, 8 TO 30 PERCENT SLOPES	These soils are moderately steep and are on side slopes on uplands. The Darley soil is on the upper parts of slopes and is well drained. It has a gravelly surface layer and a clayey subsoil. Fractured layers of ironstone are in the subsoil. The Sacul soil is on the lower parts of side slopes and is moderately well drained. It has a loamy surface layer and a clayey subsoil. Natural fertility is low or medium. Surface runoff is rapid. The Sacul soil has a high shrink-swell potential in the subsoil.
Sv	CADDO-MESSER (STOUGH) COMPLEX, MOUNDED, 0 TO 1 PERCENT SLOPES	These Caddo and Messer soils are in broad areas on the terrace uplands. The Caddo soil is poorly drained and is in swales and on level areas. It makes up most of the map unit. The Messer soil is moderately well drained and is on mounds and low ridges. Both soils are acid and loamy throughout the profile. Permeability is slow in both soils. Runoff is slow on the Caddo soil and medium on the Messer soil. Both soils have a seasonal high water table for long periods in winter and spring.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Sw	CADD0-MESSER (STOUGH) SILT LOAM, 0 TO 3 PERCENT SLOPES	<p>These Caddo and Messer soils are in broad areas on the terrace uplands. The Caddo soil is poorly drained and is in swales and on level areas. It makes up most of the map unit. The Messer soil is moderately well drained and is on mounds and low ridges. Both soils are acid and loamy throughout the profile. Permeability is slow in both soils. Runoff is slow on the Caddo soil and medium on the Messer soil. Both soils have a seasonal high water table for long periods in winter and spring.</p>
Sx	WRIGHTSVILLE-VIDRINE (STOUGH) SILT LOAMS, (CLAY SUBSTRATUM), 0 T O 1 PERCENT SLOPES	<p>These poorly drained Wrightsville soils and somewhat poorly drained Vidrine soils are on the terrace uplands. The Wrightsville soil is on broad flats and makes up most of the map unit. The Vidrine soil is on low circular mounds or smoothed mound areas and makes up a lesser part of the map unit. Both soils have a loamy surface layer and a clayey and loamy subsoil. Both soils have low fertility. Permeability is very slow in the Wrightsville soil and slow in the Vidrine soil. A seasonal high water table is present in both soils for long periods in winter and spring. Surface runoff is slow on the Wrightsville soil and medium on the Vidrine soil. The shrink-swell potential is high in both soils. Slopes range from less than 1 percent on the Wrightsville soil to about 3 percent on the Vidrine soil.</p>
Sy	WRIGHTSVILLE-VIDRINE (STOUGH) SILT LOAMS, (CLAY SUBSTRATUM), 1 T O 3 PERCENT SLOPES	<p>These poorly drained Wrightsville soils and somewhat poorly drained Vidrine soils are on the terrace uplands. The Wrightsville soil is on broad flats and makes up most of the map unit. The Vidrine soil is on low circular mounds or smoothed mound areas and makes up a lesser part of the map unit. Both soils have a loamy surface layer and a clayey and loamy subsoil. Both soils have low fertility. Permeability is very slow in the Wrightsville soil and slow in the Vidrine soil. A seasonal high water table is present in both soils for long periods in winter and spring. Surface runoff is slow on the Wrightsville soil and medium on the Vidrine soil. The shrink-swell potential is high in both soils. Slopes range from less than 1 percent on the Wrightsville soil to about 3 percent on the Vidrine soil.</p>
Sz	EASTWOOD (SUSQUEHANNA) FINE SANDY LOAM, 1 TO 8 PERCENT SLOPES	<p>This moderately well drained, gently sloping soil is on ridgetops on uplands. It has a loamy surface layer and a clayey subsoil. Runoff is medium. Water and air move slowly or very slowly through the subsoil. The soil is acid throughout and has low fertility. The subsoil has a high shrink-swell potential. In places, the soil is moderately eroded.</p>
Td	SHATA (TILDEN) SOILS, 1 TO 8 PERCENT SLOPES, SEVERELY ERODED	<p>This moderately well drained, very gently sloping or gently sloping soil is on terraces or uplands. It is loamy throughout and has a fragipan in the subsoil which restricts plant roots. Natural fertility is low or moderately low. Runoff is medium. Water and air move through the upper part of the subsoil at a moderate rate, and they move slowly or moderately slowly through the fragipan. A seasonal high water table perches on the fragipan for short periods. In places, the soil is moderately eroded.</p>

Map Symbol	Map Unit Name	Nontechnical Descriptions
Tf	SHATTA (TILDEN) VERY FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	This moderately well drained, very gently sloping or gently sloping soil is on terraces or uplands. It is loamy throughout and has a fragipan in the subsoil which restricts plant roots. Natural fertility is low or moderately low. Runoff is medium. Water and air move through the upper part of the subsoil at a moderate rate, and they move slowly or moderately slowly through the fragipan. A seasonal high water table perches on the fragipan for short periods. In places, the soil is moderately eroded.
Ts	SHATTA (TILDEN) VERY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES	This moderately well drained, very gently sloping or gently sloping soil is on terraces or uplands. It is loamy throughout and has a fragipan in the subsoil which restricts plant roots. Natural fertility is low or moderately low. Runoff is medium. Water and air move through the upper part of the subsoil at a moderate rate, and they move slowly or moderately slowly through the fragipan. A seasonal high water table perches on the fragipan for short periods. In places, the soil is moderately eroded.
Tv	SHATTA (TILDEN) VERY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, ERO DED	This moderately well drained, very gently sloping or gently sloping soil is on terraces or uplands. It is loamy throughout and has a fragipan in the subsoil which restricts plant roots. Natural fertility is low or moderately low. Runoff is medium. Water and air move through the upper part of the subsoil at a moderate rate, and they move slowly or moderately slowly through the fragipan. A seasonal high water table perches on the fragipan for short periods. In places, the soil is moderately eroded.
Va	WOLFFEN (VAUCLUSE) LOAMY FINE SAND, 1 TO 5 PERCENT SLOPES	This gently sloping, moderately well drained soil is on ridgetops on uplands. It has thick sandy surface and subsurface layers and a loamy and clayey subsoil. Natural fertility is low. Permeability is rapid in the sandy upper part of the soil, moderate in the middle part, and moderately slow in the lower part. The available water capacity is low or moderate. The soil has a seasonal high water table perched on the subsoil during the wet season.
Vc	WOLFFEN (VAUCLUSE) LOAMY FINE SAND, 1 TO 5 PERCENT SLOPES, ERODED	This gently sloping, moderately well drained soil is on ridgetops on uplands. It has thick sandy surface and subsurface layers and a loamy and clayey subsoil. Natural fertility is low. Permeability is rapid in the sandy upper part of the soil, moderate in the middle part, and moderately slow in the lower part. The available water capacity is low or moderate. The soil has a seasonal high water table perched on the subsoil during the wet season.
Vf	WOLFFEN (VAUCLUSE) LOAMY FINE SAND, 5 TO 8 PERCENT SLOPES	This is a well drained, strongly sloping to moderately steep soil on uplands. It has thick sandy surface and subsurface layers and a loamy subsoil. The soil has low fertility and a low or moderate available water capacity. Permeability is rapid in the upper part of the soil and moderate in the lower part. Surface runoff is medium.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Vm	WOLFPEN (VAUCLUSE) LOAMY FINE SAND, 5 TO 8 PERCENT SLOPES, ERODED	This is a well drained, strongly sloping to moderately steep soil on uplands. It has thick sandy surface and subsurface layers and a loamy subsoil. The soil has low fertility and a low or moderate available water capacity. Permeability is rapid in the upper part of the soil and moderate in the lower part. Surface runoff is medium.
Vs	WOLFPEN (VAUCLUSE) LOAMY FINE SAND, 8 TO 16 PERCENT SLOPES, ERODED	This is a well drained, strongly sloping to moderately steep soil on uplands. It has thick sandy surface and subsurface layers and a loamy subsoil. The soil has low fertility and a low or moderate available water capacity. Permeability is rapid in the upper part of the soil and moderate in the lower part. Surface runoff is medium.
Wr	WRIGHTSVILLE-VIDRINE COMPLEX, MOUNDED	These poorly drained Wrightsville soils and somewhat poorly drained Vidrine soils are on the terrace uplands. The Wrightsville soil is on broad flats and makes up most of the map unit. The Vidrine soil is on low circular mounds or smoothed mound areas and makes up a lesser part of the map unit. Both soils have a loamy surface layer and a clayey and loamy subsoil. Both soils have low fertility. Permeability is very slow in the Wrightsville soil and slow in the Vidrine soil. A seasonal high water table is present in both soils for long periods in winter and spring. Surface runoff is slow on the Wrightsville soil and medium on the Vidrine soil. The shrink-swell potential is high in both soils. Slopes range from less than 1 percent on the Wrightsville soil to about 3 percent on the Vidrine soil.
Wt	WRIGHTSVILLE SILT LOAM	This poorly drained, level soil is in depressional areas along drainageways on uplands. It has a loamy surface layer and a clayey subsoil. Natural fertility is low. Runoff is slow, and water moves very slowly through the soil. This soil is wet during much of winter and spring. The subsoil has a high shrink-swell potential.
Wv	WRIGHTSVILLE SILTY CLAY	This nearly level, poorly drained soil is on terraces. It has a clayey surface layer, a loamy subsurface layer, and a clayey subsoil. Water and air move very slowly through the soil. Surface runoff is slow. The soil has a seasonal high water table for long periods in winter and spring. Natural fertility is low.
Ya	ARMISTEAD (YAHOLA) CLAY, (OVERWASH), 0 TO 1 PERCENT SLOPES	This level, somewhat poorly drained soil is on natural levees on the alluvial plain. It has a clayey surface layer and loamy subsoil. Natural fertility is high. Permeability is slow in the surface layer and moderately slow in the subsoil. The soil has a seasonal high water table in winter and spring. The shrink-swell potential is low in the subsoil.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Yc	ARMISTEAD (YAHOLA) CLAY, OVERWASH, 1 TO 3 PERCENT SLOPES	This level, somewhat poorly drained soil is on natural levees on the alluvial plain. It has a clayey surface layer and loamy subsoil. Natural fertility is high. Permeability is slow in the surface layer and moderately slow in the subsoil. The soil has a seasonal high water table in winter and spring. The shrink-swell potential is low in the subsoil.
Yh	NORWOOD (YAHOLA) SILT LOAM, 0 TO 1 PERCENT SLOPES	This well drained, level soil is on natural levees on the Red River flood plain. It is loamy and alkaline throughout. Natural fertility is high. Movement of air and water through the soil is moderate. Runoff is slow. This soil dries quickly after rains.
Ym	NORWOOD (YAHOLA) SILT LOAM, 1 TO 3 PERCENT SLOPES	This well drained, loamy soil is on parallel ridges and swales on natural levees on the Red River flood plain. It is protected from flooding by man-made levees. The soil is loamy throughout and has high fertility. Runoff is slow. Movement of water and air through the soil is moderate.
Yn	NORWOOD (YAHOLA) SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES	This well drained, level soil is on natural levees on the Red River flood plain. It is loamy and alkaline throughout. Natural fertility is high. Movement of air and water through the soil is moderate. Runoff is slow, and excess water accumulates for short periods after rains. This soil dries moderately slowly after rains.
Yo	NORWOOD (YAHOLA) SILTY CLAY LOAM, 1 TO 3 PERCENT SLOPES	This well drained, loamy soil is on parallel ridges and swales on natural levees on the Red River flood plain. It is protected from flooding by man-made levees. The soil is loamy throughout and has high fertility. Runoff is slow. Movement of water and air through the soil is moderate.
Yp	SEVERN (YAHOLA) SOILS, OVERFLOW, 0 TO 3 PERCENT SLOPES	This well drained, undulating soil is on ridges and swales on the Red River alluvial plain. It is on the unprotected side of the man-made levee and is subject to frequent flooding. This soil is loamy throughout and has high fertility. Runoff is slow. Movement of water and air through the soil is moderate.
Yr	SEVERN (YAHOLA) VERY FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	This well drained, level soil is on natural levees on the Red River flood plain. It is loamy and alkaline throughout. Natural fertility is high. Movement of air and water through the soil is moderate. Runoff is slow. This soil dries quickly after rains.
Ys	SEVERN (YAHOLA) VERY FINE SANDY LOAM, 1 TO 3 PERCENT SLOPES	This well drained, level soil is on natural levees on the Red River flood plain. It is loamy and alkaline throughout. Natural fertility is high. Movement of air and water through the soil is moderate. Runoff is slow. This soil dries quickly after rains.

Map Symbol	Map Unit Name	Nontechnical Descriptions
Yt	SEVERN (YAHOLA) VERY FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES	This well drained, loamy soil is on parallel ridges and swales on natural levees on the Red River flood plain. It is protected from flooding by man-made levees. The soil is loamy throughout and has high fertility. Runoff is slow. Movement of water and air through the soil is moderate.
Yv	SEVERN (YAHOLA) VERY FINE SANDY LOAM, UNDULATING	This well drained, loamy soil is on parallel ridges and swales on natural levees on the Red River flood plain. It is protected from flooding by man-made levees. The soil is loamy throughout and has high fertility. Runoff is slow. Movement of water and air through the soil is moderate.