

EDWARDS PLATEAU RIPARIAN

Nature Serve ID: CES303.652

Geology: This system usually occupies Quaternary deposits along headwater streams. These may be alluvial or gravel deposits and are often within drainages dominated by limestone or other calcareous substrates on the Edwards Plateau or where substrate is influenced by outwash from the Edwards Plateau.

Landform: Riparian systems occupy small streams, either intermittent or perennial. These sites tend to be in erosional situations, as opposed to broad alluvial depositional sites.

Soils: By definition, this system is mapped in areas upstream of significant development of bottomland soils on soil types of the surrounding uplands.

Description: Riparian vegetation may be characterized as woodlands, shrublands, or herbaceous vegetation. These erosional sites may be gravelly, cobbly, or rocky, and generally occupy the upper reaches of streams. Woodlands may have *Quercus fusiformis* (plateau live oak), *Platanus occidentalis* (American sycamore), *Taxodium distichum* (baldcypress), *Fraxinus texensis* (Texas ash), *Fraxinus pennsylvanica* (green ash), *Ulmus crassifolia* (cedar elm), *Celtis laevigata* (sugar hackberry) (including var. *reticulata*), *Acer negundo* (boxelder), *Prosopis glandulosa* (mesquite), *Quercus buckleyi* (Texas oak), *Juniperus ashei* (Ashe juniper), *Salix nigra* (black willow), and/or *Sapindus saponaria* (western soapberry). Shrub species that may be encountered in the understory of these woodlands (or, in some cases, may form shrublands lacking a significant overstory canopy) include *Juglans microcarpa* (little walnut), *Chilopsis linearis* (desert willow), *Baccharis* spp. (false-willow), *Salix nigra* (black willow), *Juniperus ashei* (Ashe juniper), *Sapindus saponaria* (western soapberry), *Cornus drummondii* (roughleaf dogwood), *Sophora secundiflora* (Texas mountain-laurel), *Sideroxylon lanuginosum* (gum bumelia), *Diospyros texana* (Texas persimmon), *Ungnadia speciosa* (Mexican buckeye), *Prosopis glandulosa* (mesquite), *Cephalanthus occidentalis* (common buttonbush), and/or *Aloysia gratissima* (whitebrush). Substantial patches of herbaceous cover may be present and often include species such as *Andropogon glomeratus* (bushy bluestem), *Panicum virgatum* (switchgrass), *Cladium mariscus* var. *jamaicense* (sawgrass), *Tripsacum dactyloides* (eastern gamagrass), *Setaria scheelei* (southwestern bristlegrass), *Nassella leucotricha* (Texas wintergrass), *Eleocharis* spp. (spikerush), *Brickellia* spp. (brickellbush), *Justicia americana* (American water-willow), *Hydrocotyle* spp. (water penny), and/or *Muhlenbergia lindheimeri* (Lindheimer muhly). Frequently, *Cynodon dactylon* (bermudagrass) and/or *Bothriochloa ischaemum* var. *songarica* (King Ranch bluestem) dominate these grassland sites. *Sorghum halepense* (Johnson grass) is also a commonly encountered non-native grass. This system includes vegetation along very small streams, reaching upstream to spring heads and runs.

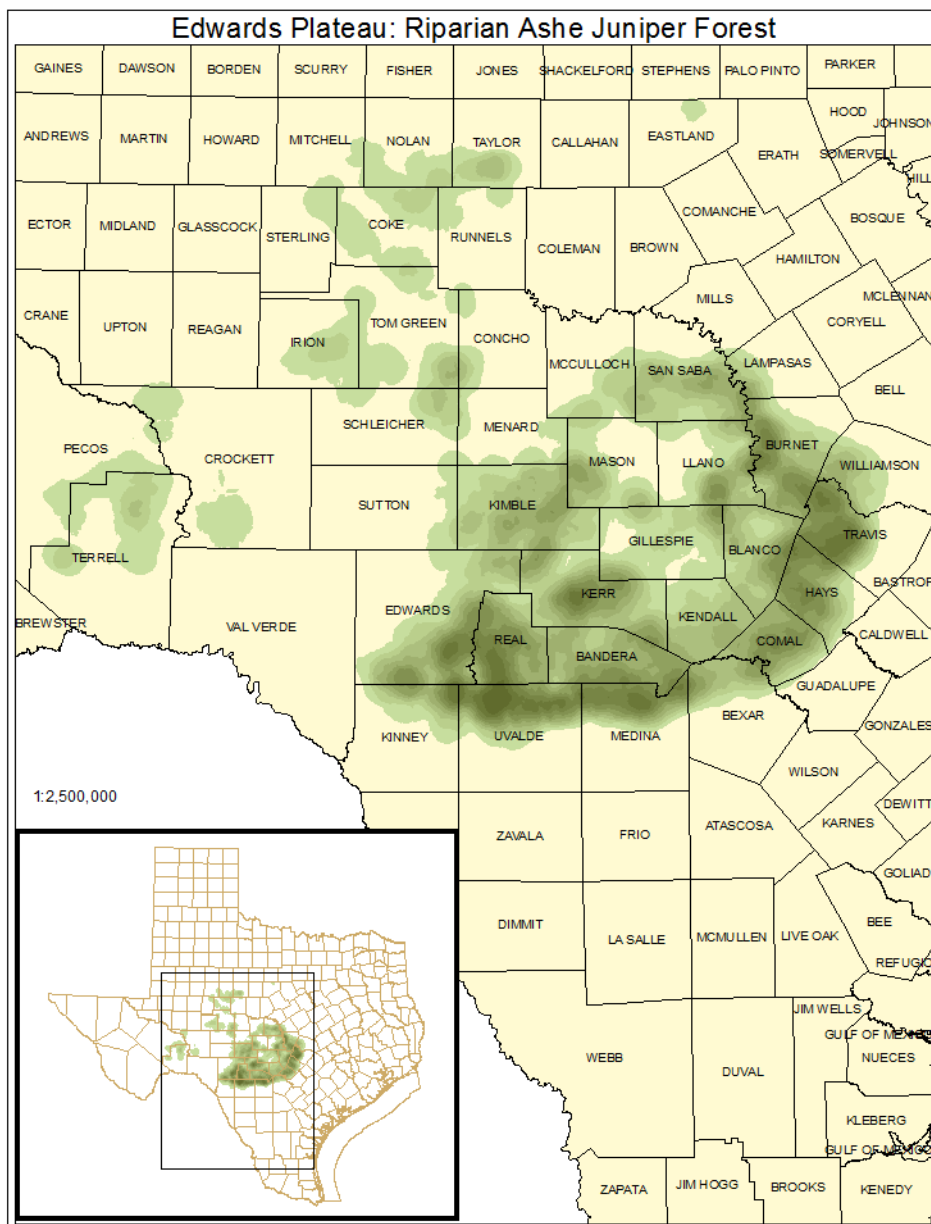
ECOLOGICAL MAPPING SYSTEMS:

EDWARDS PLATEAU: RIPARIAN ASHE JUNIPER FOREST

Mapping System ID: 1401

EMS Description: Forest or woodland on riparian sites dominated by *Juniperus ashei* (Ashe juniper). Otherwise generally fitting the description of forest or woodland occurrences of the system, with some deciduous species and *Quercus fusiformis* (plateau live oak) present in the canopy.

Distribution Map:



Example:**Public Land Occurrence:**

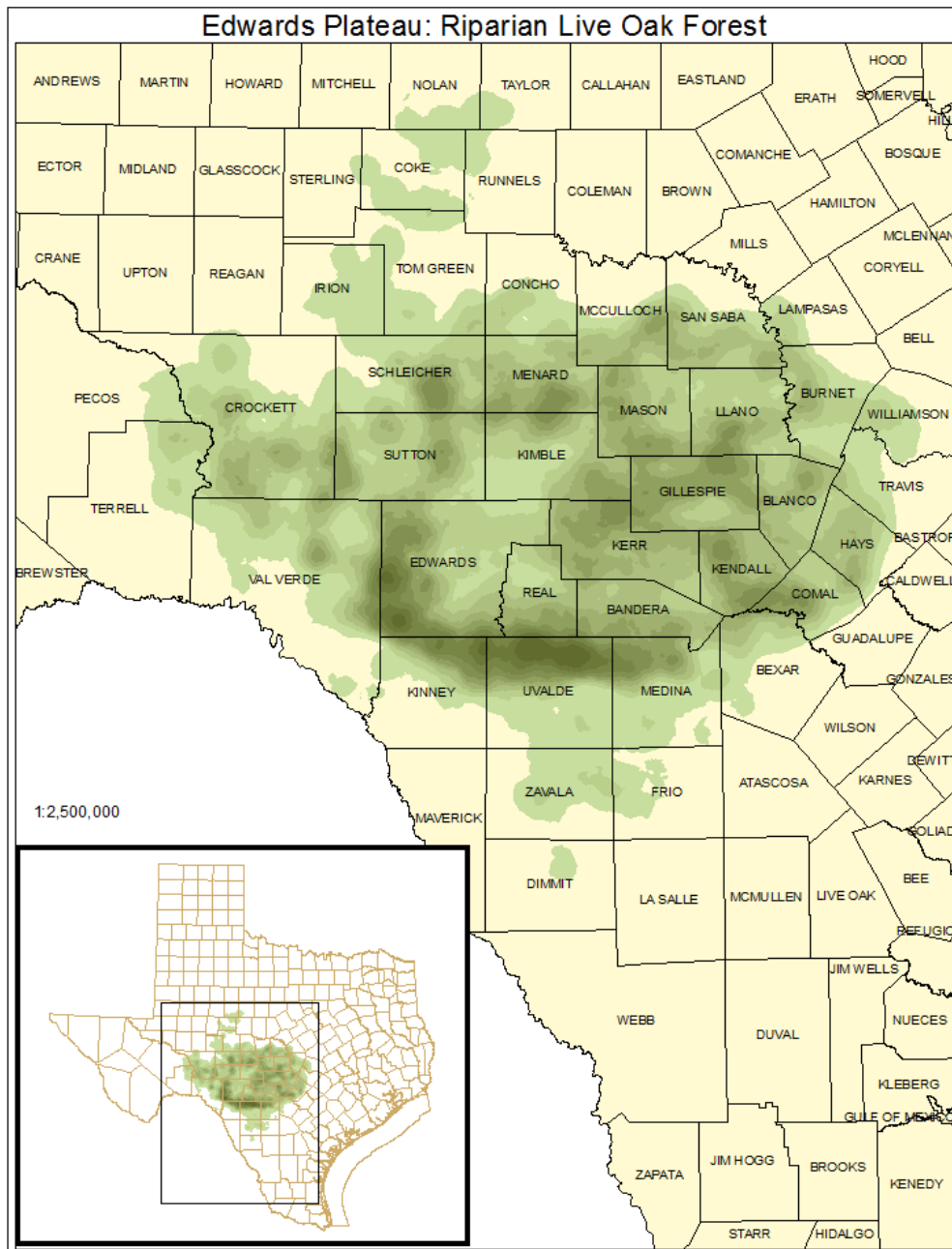
Amistad National Recreation Area: US National Park Service
Balcones Canyonlands National Wildlife Refuge: U. S. Fish and Wildlife Service
Barton Creek Habitat Preserve: The Nature Conservancy
Colorado Bend State Park: Texas Parks & Wildlife Department
Garner State Park: Texas Parks & Wildlife Department
Government Canyon State Natural Area: Texas Parks & Wildlife Department
Hill Country State Natural Area: Texas Parks & Wildlife Department
Honey Creek State Natural Area: Texas Parks & Wildlife Department
Independence Creek Preserve: The Nature Conservancy
Kerr Wildlife Management Area: Texas Parks & Wildlife Department
Kickapoo Cavern State Park: Texas Parks & Wildlife Department
Pedernales Falls State Park: Texas Parks & Wildlife Department

EDWARDS PLATEAU: RIPARIAN LIVE OAK FOREST

Mapping System ID: 1402

EMS Description: Forest or woodland on riparian sites dominated by *Quercus fusiformis* (plateau live oak). Otherwise, this vegetation type generally fits the description of forest or woodland occurrences of the system, with some deciduous species and *Juniperus ashei* (Ashe juniper) present in the canopy.

Distribution Map:



Example:



Public Land Occurrence:

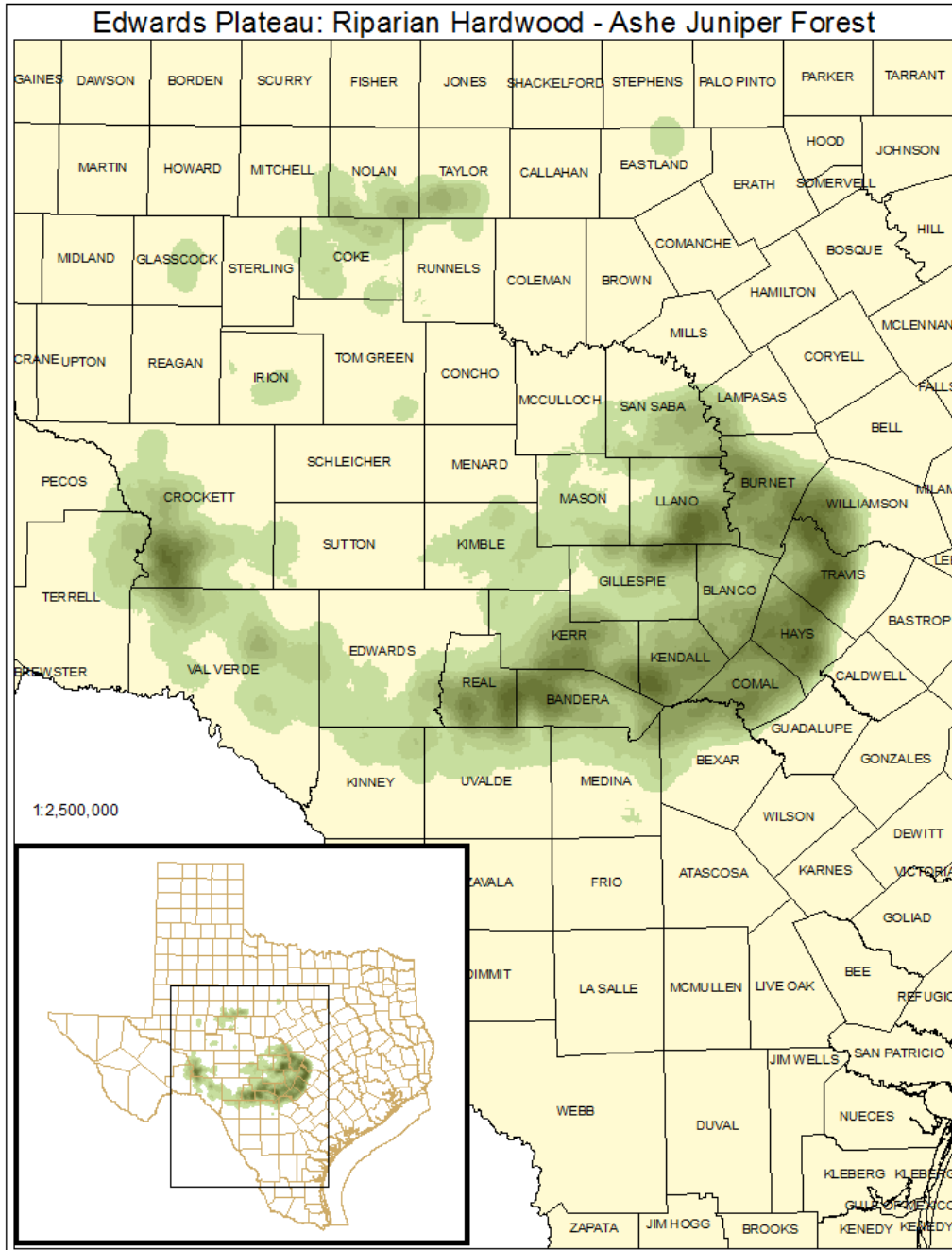
- Amistad National Recreation Area: US National Park Service
- Colorado Bend State Park: Texas Parks & Wildlife Department
- Devils River State Natural Area: Texas Parks & Wildlife Department
- Garner State Park: Texas Parks & Wildlife Department
- Government Canyon State Natural Area: Texas Parks & Wildlife Department
- Guadalupe River State Park: Texas Parks & Wildlife Department
- Hill Country State Natural Area: Texas Parks & Wildlife Department
- Honey Creek State Natural Area: Texas Parks & Wildlife Department
- Independence Creek Preserve: The Nature Conservancy
- Kerr Wildlife Management Area: Texas Parks & Wildlife Department
- Kickapoo Cavern State Park: Texas Parks & Wildlife Department
- Mason Mountain Wildlife Management Area: Texas Parks & Wildlife Department
- Seminole Canyon State Park/State Historic Site: Texas Parks & Wildlife Department
- Walter Buck Wildlife Management Area: Texas Parks & Wildlife Department

EDWARDS PLATEAU: RIPARIAN HARDWOOD / ASHE JUNIPER FOREST

Mapping System ID: 1403

EMS Description: Forest or woodland on riparian sites co-dominated by evergreen species (*Juniperus ashei* (Ashe juniper) and/or *Quercus fusiformis* (plateau live oak)) and deciduous species as mentioned in the system description.

Distribution Map:



Example:**Public Land Occurrence:**

Amistad National Recreation Area: US National Park Service

Balcones Canyonlands National Wildlife Refuge: U. S. Fish and Wildlife Service

Barton Creek Habitat Preserve: The Nature Conservancy

Belton Lake Recreation Area: US Army Corps of Engineers

Devils River State Natural Area: Texas Parks & Wildlife Department

Government Canyon State Natural Area: Texas Parks & Wildlife Department

Independence Creek Preserve: The Nature Conservancy

Kickapoo Cavern State Park: Texas Parks & Wildlife Department

Lost Maples State Natural Area: Texas Parks & Wildlife Department

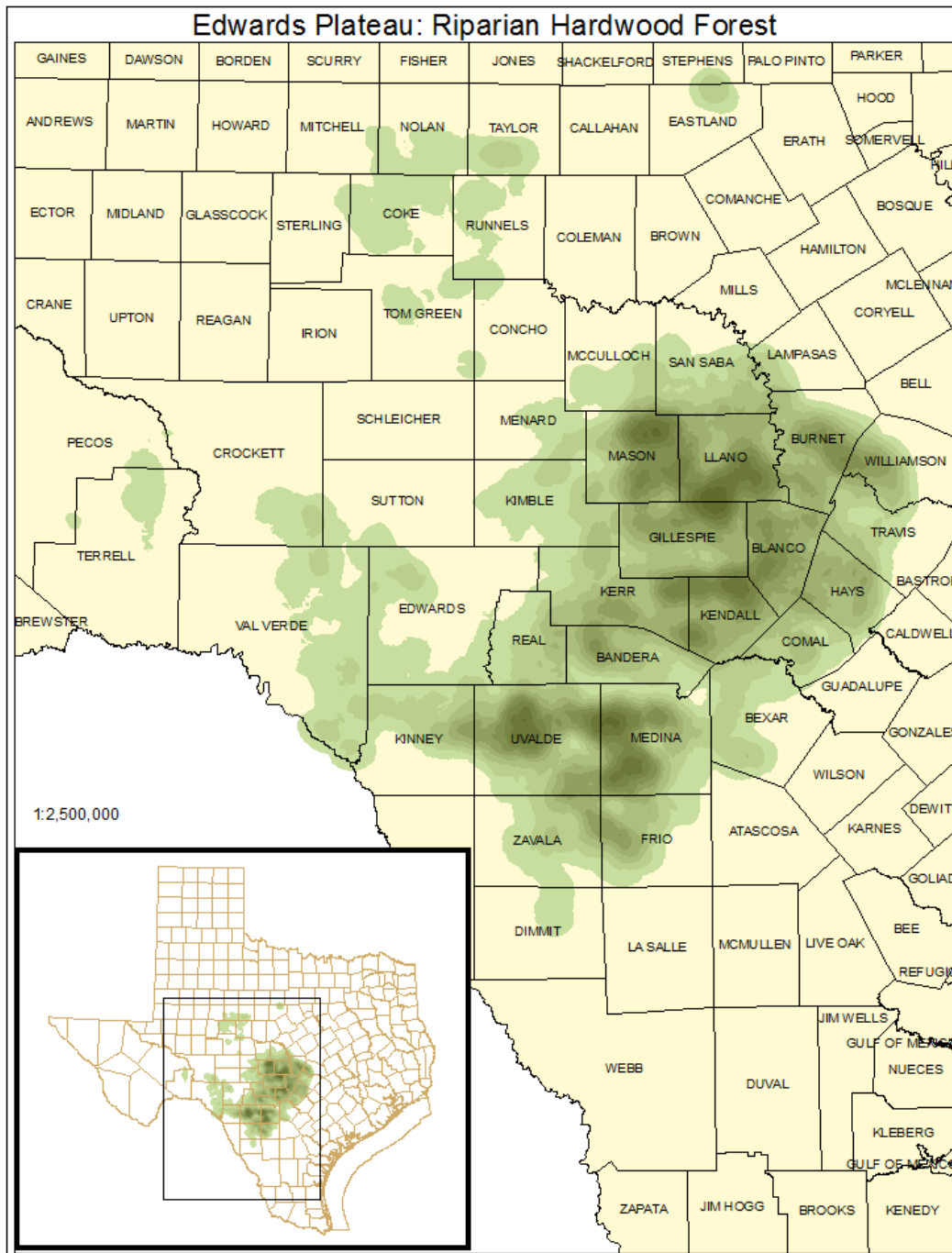
Stillhouse Hollow Lake Recreation Area: US Army Corps of Engineers

EDWARDS PLATEAU: RIPARIAN HARDWOOD FOREST

Mapping System ID: 1404

EMS Description: As described for woodland or forest occurrences of the system, with deciduous species dominating the canopy.

Distribution Map:



Example:**Public Land Occurrence:**

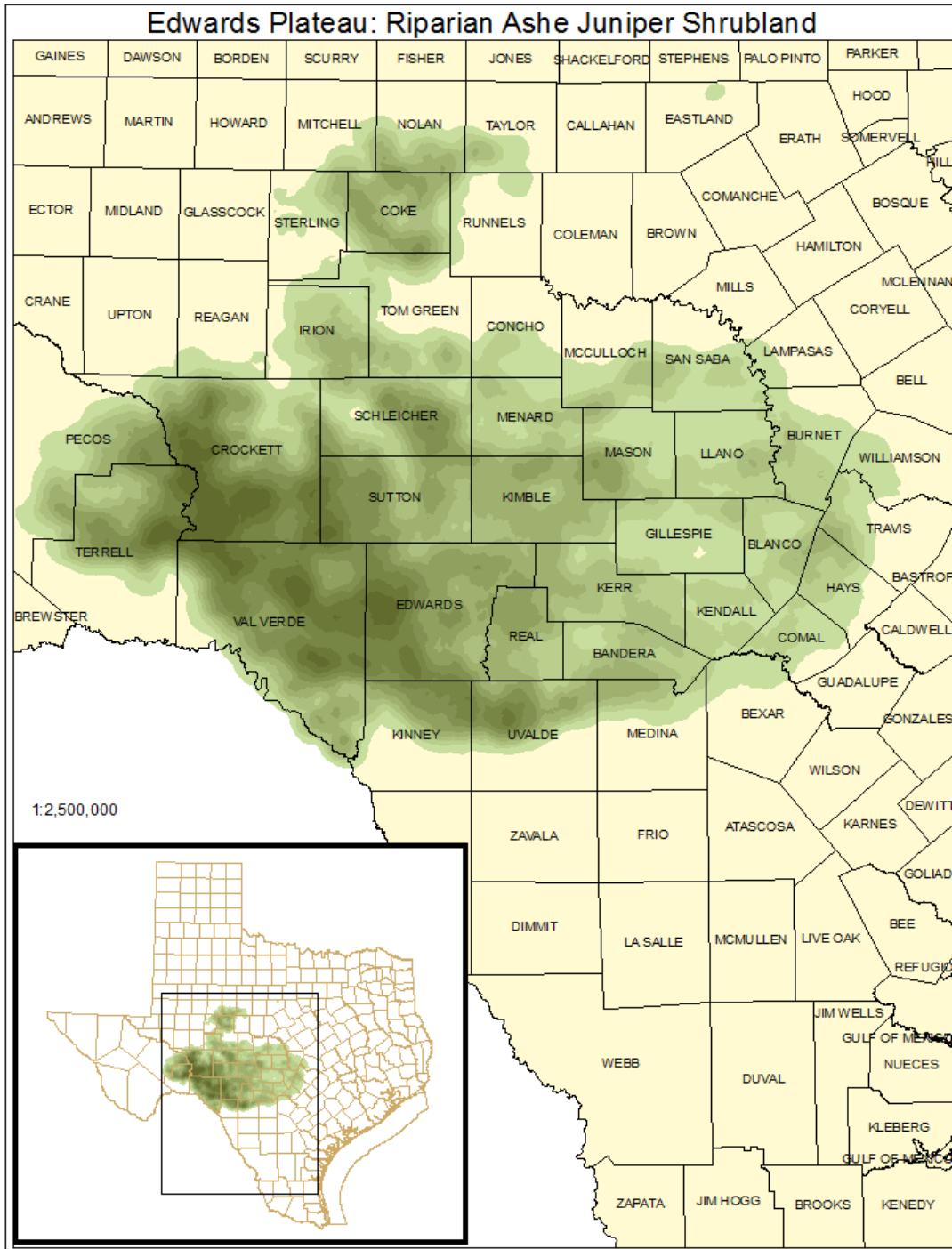
Amistad National Recreation Area: US National Park Service
Balcones Canyonlands National Wildlife Refuge: U. S. Fish and Wildlife Service
Belton Lake Recreation Area: US Army Corps of Engineers
Colorado Bend State Park: Texas Parks & Wildlife Department
Devils River State Natural Area: Texas Parks & Wildlife Department
Enchanted Rock State Park: Texas Parks & Wildlife Department
Garner State Park: Texas Parks & Wildlife Department
Government Canyon State Natural Area: Texas Parks & Wildlife Department
Guadalupe River State Park: Texas Parks & Wildlife Department
Honey Creek State Natural Area: Texas Parks & Wildlife Department
Kerr Wildlife Management Area: Texas Parks & Wildlife Department
Kickapoo Cavern State Park: Texas Parks & Wildlife Department
Mason Mountain Wildlife Management Area: Texas Parks & Wildlife Department
San Angelo State Park: Texas Parks & Wildlife Department
Stillhouse Hollow Lake Recreation Area: US Army Corps of Engineers
Twin Butte Reservoir Recreation Area: Texas Parks & Wildlife Department

EDWARDS PLATEAU: RIPARIAN ASHE JUNIPER SHRUBLAND

Mapping System ID: 1405

EMS Description: Shrublands on riparian sites dominated by *Juniperus ashei* (Ashe juniper).

Distribution Map:



Example:**Public Land Occurrence:**

Amistad National Recreation Area: US National Park Service

Balcones Canyonlands National Wildlife Refuge: U. S. Fish and Wildlife Service

Colorado Bend State Park: Texas Parks & Wildlife Department

Devil's Sinkhole State Natural Area: Texas Parks & Wildlife Department

Devils River State Natural Area: Texas Parks & Wildlife Department

E.V. Spence Reservoir Recreation Area: Texas Parks & Wildlife Department

Fort Lancaster State Historic Site: Texas Parks & Wildlife Department

Hill Country State Natural Area: Texas Parks & Wildlife Department

Honey Creek State Natural Area: Texas Parks & Wildlife Department

Independence Creek Preserve: The Nature Conservancy

Inks Lake State Park: Texas Parks & Wildlife Department

Kerr Wildlife Management Area: Texas Parks & Wildlife Department

Kickapoo Cavern State Park: Texas Parks & Wildlife Department

Mason Mountain Wildlife Management Area: Texas Parks & Wildlife Department

Pedernales Falls State Park: Texas Parks & Wildlife Department

Seminole Canyon State Park/State Historic Site: Texas Parks & Wildlife Department

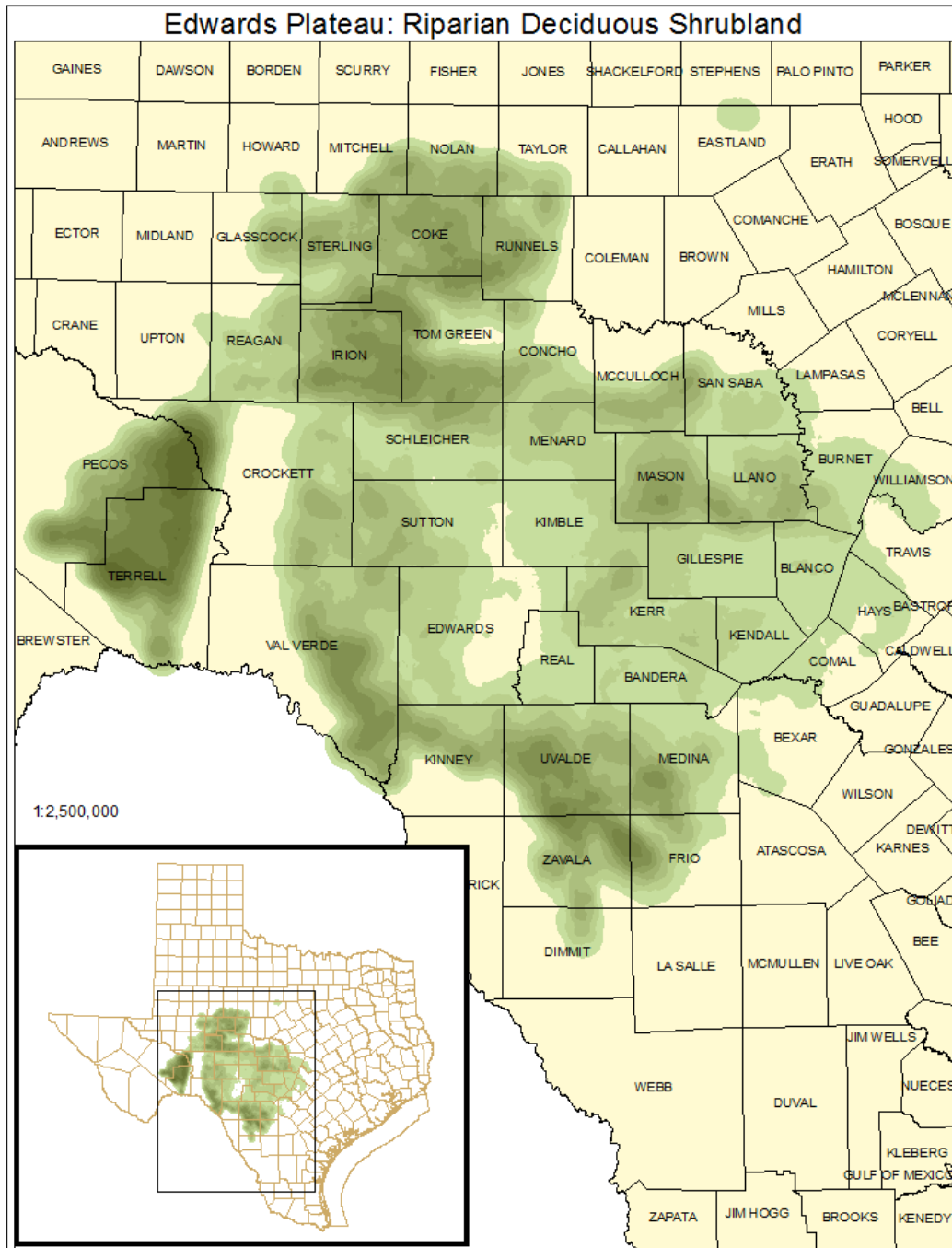
Walter Buck Wildlife Management Area: Texas Parks & Wildlife Department

EDWARDS PLATEAU: RIPARIAN DECIDUOUS SHRUBLAND

Mapping System ID: 1406

EMS Description: Shrublands on riparian sites dominated by one or more of the shrub species mentioned in the system description.

Distribution Map:



Example:**Public Land Occurrence:**

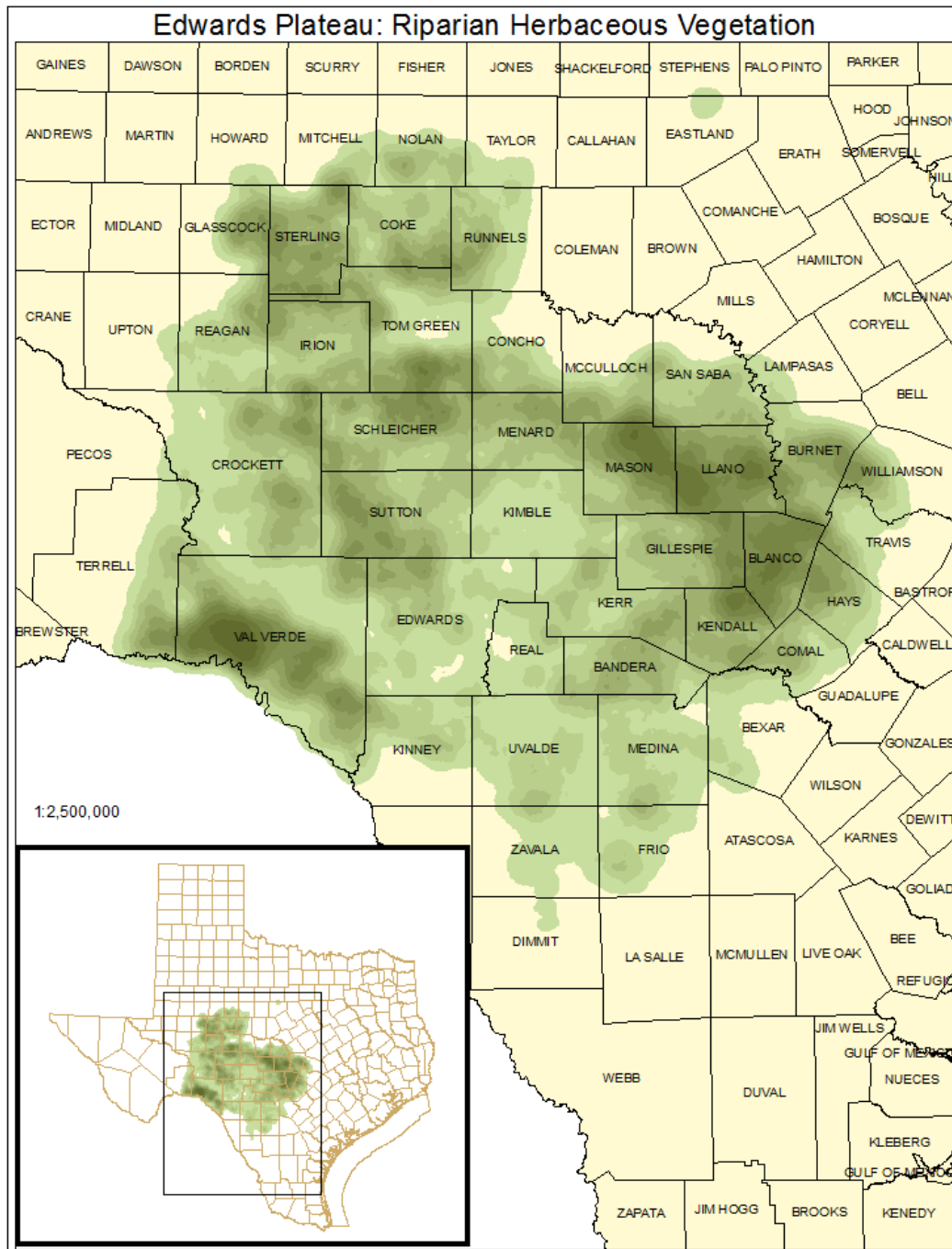
Amistad National Recreation Area: US National Park Service
Devils River State Natural Area: Texas Parks & Wildlife Department
E.V. Spence Reservoir Recreation Area: Texas Parks & Wildlife Department
Enchanted Rock State Park: Texas Parks & Wildlife Department
Garner State Park: Texas Parks & Wildlife Department
Hill Country State Natural Area: Texas Parks & Wildlife Department
Honey Creek State Natural Area: Texas Parks & Wildlife Department
Independence Creek Preserve: The Nature Conservancy
Kerr Wildlife Management Area: Texas Parks & Wildlife Department
Kickapoo Cavern State Park: Texas Parks & Wildlife Department
Lost Maples State Natural Area: Texas Parks & Wildlife Department
Mason Mountain Wildlife Management Area: Texas Parks & Wildlife Department
San Angelo State Park: Texas Parks & Wildlife Department
South Llano River State Park: Texas Parks & Wildlife Department
Twin Butte Reservoir Recreation Area: Texas Parks & Wildlife Department

EDWARDS PLATEAU: RIPARIAN HERBACEOUS VEGETATION

Mapping System ID: 1407

EMS Description: Riparian sites dominated by herbaceous vegetation as described in the system description.

Distribution Map:



Example:**Public Land Occurrence:**

Amistad National Recreation Area: US National Park Service

Balcones Canyonlands National Wildlife Refuge: U. S. Fish and Wildlife Service

Colorado Bend State Park: Texas Parks & Wildlife Department

Devils River State Natural Area: Texas Parks & Wildlife Department

E.V. Spence Reservoir Recreation Area: Texas Parks & Wildlife Department

Enchanted Rock State Park: Texas Parks & Wildlife Department

Hill Country State Natural Area: Texas Parks & Wildlife Department

Honey Creek State Natural Area: Texas Parks & Wildlife Department

Kerr Wildlife Management Area: Texas Parks & Wildlife Department

Kickapoo Cavern State Park: Texas Parks & Wildlife Department

Mason Mountain Wildlife Management Area: Texas Parks & Wildlife Department

San Angelo State Park: Texas Parks & Wildlife Department

Seminole Canyon State Park/State Historic Site: Texas Parks & Wildlife Department

Stillhouse Hollow Lake Recreation Area: US Army Corps of Engineers

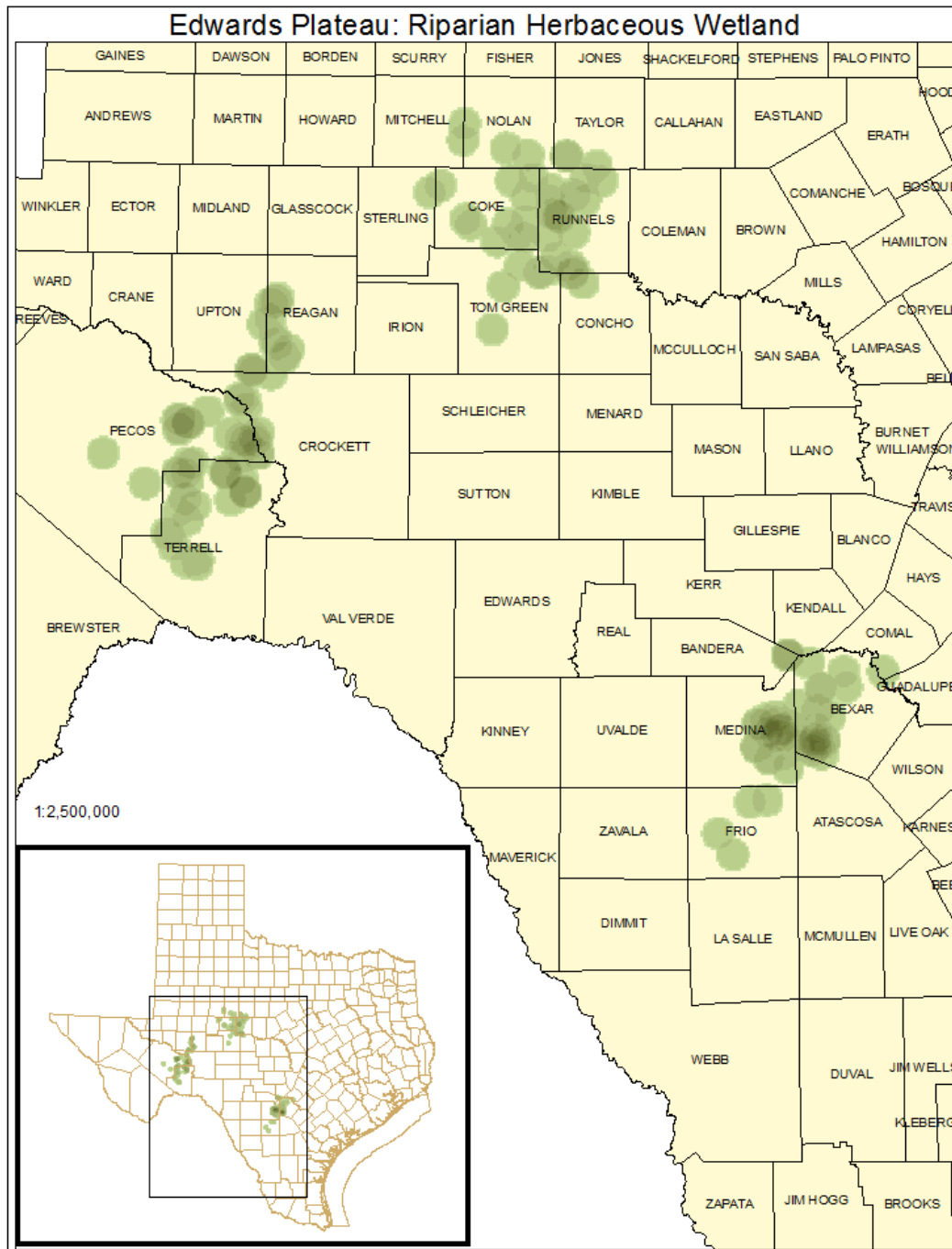
Twin Butte Reservoir Recreation Area: Texas Parks & Wildlife Department

EDWARDS PLATEAU: RIPARIAN HERBACEOUS WETLAND

Mapping System ID: 1417

EMS Description: Riparian sites dominated by wetland herbaceous vegetation as described in the system description.

Distribution Map:



Example:



Public Land Occurrence:

Twin Butte Reservoir Recreation Area: Texas Parks & Wildlife Department