

**ATTACHMENT C**

**SUPPLEMENTAL DATA TABLES**

**Table 3. Lake Livingston Water Quality, Station 0803.0025 Lake Livingston in Main Pool Near Dam, 1988-1997  
(Source: Espey, 1998)**

PARAMETER	UNITS	NO. OF DATA POINTS	DEPTH <sup>(1)</sup>	MINIMUM	MAXIMUM	AVERAGE
Temperature, water	degrees centigrade	292	S/I/B	8.5	32.7	21
Dissolved Oxygen	mg/l	289	S/I/B	0	14.6	6.5
pH	standard units	258	S/I/B	6.9	9.5	8
Conductivity	umho	272	S/I/B	244	533	367
Total Alkalinity	mg/l	283	S/I/B	20	158	101
Total Hardness	mg/l as CaCO <sub>3</sub>	286	S/I/B	76	140	115
Chlorides	mg/l	293	S/I/B	5	57	25
Fluoride	mg/l	286	S/I/B	0.1	12	0.4
Sulfate	mg/l	289	S/I/B	10	57	38
Turbidity	NTU	225	S/I/B	1.7	55	9.7
Total Suspended Solids	mg/l	229	S/I/B	1	58	15.1
Total Dissolved Solids	mg/l	85	S/I/B	172	288	214
Fecal Coliform	organisms/100 ml	94	S/I/B	2	460	23
Ammonia as N	mg/l	291	S/I/B	0.1	6.2	0.2
Total Kjeldahl Nitrogen	mg/l	255	S/I/B	0.1	6.6	0.7
Nitrate as N	mg/l	287	S/I/B	0.1	2.4	0.5
Nitrite as N	mg/l	67	S/I/B	0.03	0.3	0.03
Total Phosphorus	mg/l	278	S/I/B	0.01	2	0.2
Ortho-Phosphate	mg/l	278	S/I/B	0.1	1.9	0.1
Total Aluminum	ug/l	198	S/I/B	200	15,300	986
Total Antimony	ug/l	67	S/I/B	0.5	6	3

**Table 3. Lake Livingston Water Quality, Station 0803.0025 Lake Livingston in Main Pool Near Dam, 1988-1997  
(Source: Espey, 1998) (Continued)**

PARAMETER	UNITS	NO. OF DATA POINTS	DEPTH <sup>(1)</sup>	MINIMUM	MAXIMUM	AVERAGE
Total Arsenic	ug/l	194	S/I/B	2	13	3.8
Total Barium	ug/l	192	S/I/B	120	1,000	254
Total Cadmium	ug/l	208	S/I/B	0.3	4	0.7
Total Chromium	ug/l	203	S/I/B	1	40	4
Total Copper	ug/l	220	S/I/B	40	155	42
Total Iron	ug/l	210	S/I/B	37	5,100	680
Total Lead	ug/l	209	S/I/B	1	119	7
Total Magnesium	mg/l	226	S/I/B	2.7	6.1	4.2
Total Manganese	ug/l	225	S/I/B	20	1,987	150
Total Mercury	ug/l	191	S/I/B	0.5	3	0.7
Total Nickel	ug/l	205	S/I/B	60	120	62
Total Potassium	mg/l	216	S/I/B	1.9	11	4.7
Total Silver	ug/l	155	S/I/B	20	172	21
Total Selenium	ug/l	183	S/I/B	1	5	5
Total Sodium	mg/l	217	S/I/B	12	62	24.5
Total Zinc	ug/l	217	S/I/B	40	111	41

Notes:

(1) S=Surface, I=Intermediate, B=Bottom

**Table 5. Lake Livingston Water Quality, Station 0802.0300 Trinity River at Lake Livingston Discharge, 1988-1997 (Source: Espey, 1998)**

PARAMETER	UNITS	NO. OF DATA POINTS	DEPTH <sup>(1)</sup>	MINIMUM	MAXIMUM	AVERAGE
Temperature, water	degrees centigrade	99	S	10	33.5	21.1
Dissolved Oxygen	mg/l	104	S	1.6	11.8	8.7
pH	standard units	107	S	6.6	8.9	7.9
Conductivity	umho	110	S	238	538	365
Total Alkalinity	mg/l	110	S	60	122	99
Total Hardness	mg/l as CaCO <sub>3</sub>	109	S	76	138	113
Chlorides	mg/l	112	S	7	62	25
Fluoride	mg/l	109	S	0.1	0.8	0.4
Sulfate	mg/l	110	S	11	85	39
Turbidity	NTU	112	S	2	56	11
Total Suspended Solids	mg/l	112	S	2	79	17.4
Total Dissolved Solids	mg/l	43	S	178	274	213
Fecal Coliform	organisms/100 ml	101	S	5	6,500	141
Ammonia as N	mg/l	113	S	0.1	0.6	0.1
Total Kjeldahl Nitrogen	mg/l	92	S	0.3	1.5	0.6
Nitrate as N	mg/l	107	S	0.1	1.7	0.5
Nitrite as N	mg/l	35	S	0.03	0.03	0.03
Total Phosphorus	mg/l	110	S	0.01	0.6	0.2
Ortho-Phosphate	mg/l	103	S	0.1	0.2	0.1
Total Aluminum	ug/l	84	S	50	13,700	1,171
Total Antimony	ug/l	32	S	0.5	3	2.9

**Table 5. Lake Livingston Water Quality, Station 0802.0300 Trinity River at Lake Livingston Discharge, 1988-1997 (Source: Espey, 1998) (Continued)**

PARAMETER	UNITS	NO. OF DATA POINTS	DEPTH <sup>(1)</sup>	MINIMUM	MAXIMUM	AVERAGE
Total Arsenic	ug/l	76	S	2	6	3.2
Total Barium	ug/l	79	S	120	1000	209
Total Cadmium	ug/l	87	S	0.3	8	0.6
Total Chromium	ug/l	82	S	1	40	3
Total Copper	ug/l	92	S	40	152	41
Total Iron	ug/l	81	S	60	3,680	719
Total Lead	ug/l	84	S	1	20	3
Total Magnesium	mg/l	91	S	2.8	6	4.1
Total Manganese	ug/l	93	S	20	352	52
Total Mercury	ug/l	76	S	0.5	5	0.7
Total Nickel	ug/l	86	S	60	90	61
Total Potassium	mg/l	89	S	2.3	7.2	4.7
Total Silver	ug/l	63	S	20	327	25
Total Selenium	ug/l	72	S	1	5	5
Total Sodium	mg/l	90	S	12	221	26.7
Total Zinc	ug/l	88	S	40	74	41

Notes:

(1) **S**=Surface, **I**=Intermediate, **B**=Bottom



**Table 6. Lake Livingston Water Quality, Station 0802.0180 Trinity River at FM 787 Near Romayor, 1988-1997  
(Source: Espey, 1998)**

PARAMETER	UNITS	NO. OF DATA POINTS	DEPTH <sup>(1)</sup>	MINIMUM	MAXIMUM	AVERAGE
Temperature, water	degrees centigrade	107	S	7	32.2	21.4
Dissolved Oxygen	mg/l	102	S	4.6	12.4	8.9
pH	standard units	102	S	6.1	8.9	7.9
Conductivity	umho	107	S	245	538	357
Total Alkalinity	mg/l	104	S	62	120	96
Total Hardness	mg/l as CaCO <sub>3</sub>	107	S	78	163	111
Chlorides	mg/l	109	S	7	75	26
Fluoride	mg/l	106	S	0.1	0.8	0.3
Sulfate	mg/l	105	S	10	52	36
Turbidity	NTU	107	S	2	65	14.3
Total Suspended Solids	mg/l	106	S	8	162	32.7
Total Dissolved Solids	mg/l	40	S	170	264	209
Fecal Coliform	organisms/100 ml	102	S	5	18,000	333
Ammonia as N	mg/l	106	S	0.1	0.6	0.1
Total Kjeldahl Nitrogen	mg/l	72	S	0.2	1	0.6
Nitrate as N	mg/l	103	S	0.1	1.7	0.5
Nitrite as N	mg/l	33	S	0.03	0.03	0.03
Total Phosphorus	mg/l	104	S	0.1	0.7	0.2
Ortho-Phosphate	mg/l	100	S	0.1	0.2	0.1
Total Aluminum	ug/l	81	S	200	7,800	1,461
Total Antimony	ug/l	31	S	0.5	7	3.2

**Table 6. Lake Livingston Water Quality, Station 0802.0180 Trinity River at FM 787 Near Romayor, 1988-1997  
(Source: Espey, 1998) (Continued)**

PARAMETER	UNITS	NO. OF DATA POINTS	DEPTH <sup>(1)</sup>	MINIMUM	MAXIMUM	AVERAGE
Total Arsenic	ug/l	80	S	2	6	3.2
Total Barium	ug/l	78	S	120	1000	217
Total Cadmium	ug/l	86	S	0.3	5	0.7
Total Chromium	ug/l	83	S	1	40	4
Total Copper	ug/l	88	S	40	129	41
Total Iron	ug/l	82	S	356	4,200	1,118
Total Lead	ug/l	82	S	1	24	4
Total Magnesium	mg/l	90	S	2.8	5.9	4.1
Total Manganese	ug/l	91	S	20	124	58
Total Mercury	ug/l	76	S	0.5	3	0.7
Total Nickel	ug/l	84	S	60	90	62
Total Potassium	mg/l	88	S	1.4	6.8	4.5
Total Silver	ug/l	64	S	20	22	20
Total Selenium	ug/l	74	S	1	5	5
Total Sodium	mg/l	87	S	12	57	24
Total Zinc	ug/l	87	S	40	74	41

Notes:

(1) S=Surface, I=Intermediate, B=Bottom

**Table 8. Fish Stocking History for Lake Livingston (Source: Texas PWD, 2008b)**

SPECIES	YEAR	NUMBER STOCKED	SIZE
Bass, Florida Largemouth	2007	200,586	Fingerling
Bass, Florida Largemouth	2006	201,694	Fingerling
Bass, Florida Largemouth	2001	500,018	Fingerling
Bass, Florida Largemouth	2000	501,639	Fingerling
Bass, Florida Largemouth	1996	814,762	Fingerling
Bass, Florida Largemouth	1996	84,252	Fry
Bass, Florida Largemouth	1978	753,286	Fingerling
Bass, Florida Largemouth	1977	59,850	Fry
Bass, Florida Largemouth	1977	190,480	Fingerling
Bass, Florida Largemouth	1976	7,000	Fingerling
Bass, Florida Largemouth	1976	15,000	Fry
Bass, Florida Largemouth	1975	26,000	Fingerling
Bass, Largemouth	1969	1,018,400	
Bass, Striped	2008	206,090	Fingerling
Bass, Striped	2007	796,122	Fingerling
Bass, Striped	2006	746,278	Fingerling
Bass, Striped	2005	526,148	Fingerling
Bass, Striped	2004	437,508	Fingerling
Bass, Striped	2003	1,032,104	Fingerling
Bass, Striped	2002	1,392,893	Fingerling
Bass, Striped	2000	900,264	Fingerling
Bass, Striped	1999	913,952	Fingerling
Bass, Striped	1998	689,849	Fingerling
Bass, Striped	1997	985,431	Fingerling
Bass, Striped	1996	207,158	Fingerling
Bass, Striped	1996	233,921	Fry
Bass, Striped	1995	900,833	Fingerling
Bass, Striped	1994	1,114,221	Fingerling
Bass, Striped	1994	674,449	Fry
Bass, Striped	1993	405,370	Fingerling
Bass, Striped	1992	351,750	Fingerling
Bass, Striped	1989	139,482	Fry
Bass, Striped	1989	766,205	Fingerling
Bass, Striped	1988	300,515	Fry
Bass, Striped	1988	599,100	Fingerling
Bass, Striped	1987	898,585	Fingerling
Bass, Striped	1986	448,485	Fingerling



**Table 8. Fish Stocking History for Lake Livingston (Source: Texas PWD, 2008b)  
(Continued)**

<b>SPECIES</b>	<b>YEAR</b>	<b>NUMBER STOCKED</b>	<b>SIZE</b>
Bass, Striped	1985	896,996	Fingerling
Bass, Striped	1984	1,424,455	Fingerling
Bass, Striped	1983	189,265	
Bass, Striped	1982	341,357	
Bass, Striped	1980	283,584	
Bass, Striped	1979	224,000	
Bass, Striped	1978	117,091	
Bass, Striped	1977	884,726	
Catfish, Blue	1969	159,800	
Catfish, Channel	1970	254,000	
Catfish, Channel	1969	634,905	
Paddlefish	1992	20,370	Fingerling
Paddlefish	1991	34,132	Fingerling
Paddlefish	1990	63,232	Fingerling

**Table 9. Wildlife Resources in the Trinity River Drainage System  
(Source: Corps, 1975)**

SPECIES NAME	COMMON NAME
<b>AMPHIBIANS</b>	
<i>Siren intermedia</i>	Lesser siren
<i>Ambystoma texanum</i>	Small-mouthed salamander
<i>Ambystoma opacum</i>	Marbeled salamander
<i>Ambystoma tigrinum</i>	Tiger salamander
<i>Notophthalmus viridescens</i>	Central newt
<i>Amphiuma means tridactylum</i>	Three-toed amphiuma
<i>Desmognathus fuscus auriculatus</i>	Dusky salamander
<i>Plethodon glutinosus</i>	Slimy salamander
<i>Manculus quadridigitatus</i>	Dwarf salamander
<i>Scaphiopus holbrooki</i>	Eastern spadefoot
<i>Scaphiopus couchi</i>	Couch's spadefoot
<i>Bufo houstonensis</i>	Houston toad
<i>Bufo woodhousei woodhousei</i>	Rocky Mountain toad
<i>Bufo valliceps</i>	Gulf Coast toad
<i>Pseudacris triseriata feriarum</i>	Upland chorus frog
<i>Pseudacris clarki</i>	Spotted chorus frog
<i>Pseudacris streckeri</i>	Strecker's chorus frog
<i>Gastrophryne carolinensis</i>	Eastern narrow-mouthed toad
<i>Gastrophryne olivacea</i>	Great Plains narrow-mouthed toad
<i>Rana catesbeiana</i>	Bullfrog
<i>Rana clamitans</i>	Bronze frog
<i>Rana pipiens</i>	Leopard Frog
<i>Bufo speciosus</i>	Texas toad
<i>Bufo punctatus</i>	Red-spotted toad
<i>Bufo debilis</i>	Green toad
<i>Acris crepitans blanchardi</i>	Blanchard's cricket frog
<i>Hyla crucifer</i>	Spring peeper
<i>Hyla cinerea</i>	Green treefrog
<i>Hyla squirella</i>	Squirrel treefrog
<i>Hyla versicolor</i>	Gray treefrog
<i>Rana palustris</i>	Pickerel frog
<i>Rana areolata areolata</i>	Southern crawfish frog
<b>REPTILES</b>	
<i>Alligator mississippiensis</i>	American alligator
<i>Chelydra serpentina</i>	Snapping turtle
<i>Macrolemys temmincki</i>	Alligator snapping turtle
<i>Sternotherus odoratus</i>	Stinkpot
<i>Sternotherus carinatus</i>	Razor-backed musk turtle

**Table 9. Wildlife Resources in the Trinity River Drainage System  
(Source: Corps, 1975) (Continued)**

SPECIES NAME	COMMON NAME
<i>Kinosternon flavescens</i>	Yellow mud turtle
<i>Kinosternon subrubrum hippocrepi</i>	Mississippi mud turtle
<i>Terrapene carolina carolina</i>	Eastern box turtle
<i>Terrapene ornata</i>	Western box turtle
<i>Malaclemys terrapin</i>	Diamondback terrapin
<i>Graptemys kohni</i>	Mississippi map turtle
<i>Graptemys pseudogeographica</i>	False map turtle
<i>Chrysemys scripta</i>	Red-eared slider
<i>Chrysemys concinna</i>	River cooter
<i>Chrysemys floridana</i>	Cooter
<i>Deirochelys reticularia</i>	Chicken turtle
<i>Trionyx muticus</i>	Smooth softshell
<i>Trionyx spiniferus</i>	Spiny softshell
<i>Anolis carolinensis</i>	Green anole
<i>Crotaphytus collaris</i>	Eastern collared lizard
<i>Cophosaurus texanus</i>	Greater earless lizard
<i>Holbrookia maculata</i>	Lesser earless lizard
<i>Sceloporus olivaceus</i>	Texas spiny lizard
<i>Sceloporus undulatus</i>	Eastern fence lizard
<i>Phrynosoma cornutum</i>	Texas horned lizard
<i>Cnemidophorus sexlineatus</i>	Six-lines racerunner
<i>Cnemidophorus gularis</i>	Texas spotted whiptail
<i>Scincella laterale</i>	Ground skink
<i>Eumeces fasciatus</i>	Five-lined skink
<i>Eumeces laticeps</i>	Broad-head skink
<i>Eumeces anthracinus</i>	Coal skink
<i>Eumeces septentrionalis</i>	Prairie skink
<i>Regina rigida</i>	Glossy water snake
<i>Heterodon nasicus</i>	Western hognose snake
<i>Diadophis punctatus</i>	Ringneck snake
<i>Farancia abacura reinwardti</i>	Western mud snake
<i>Coluber constrictor foxi</i>	Blue racer
<i>Masticophis flagellum</i>	Coachwhip
<i>Opheodrys aestivus</i>	Rough green snake
<i>Opheodrys vernalis</i>	Smooth green snake
<i>Salvadora grahamiae</i>	Mountain patch-nosed snake
<i>Elaphe guttata emoryi</i>	Great Plains rat snake
<i>Storeria dekayi</i>	Brown snake
<i>Storeria occipitomaculata</i>	Red-bellied snake
<i>Thamnophis marcianus</i>	Checkered garter snake

**Table 9. Wildlife Resources in the Trinity River Drainage System  
(Source: Corps, 1975) (Continued)**

SPECIES NAME	COMMON NAME
<i>Thamnophis sirtalis</i>	Common garter snake
<i>Thamnophis sauritus proximus</i>	Western ribbon snake
<i>Tropidoclonion lineatum</i>	Lined snake
<i>Virginia striatula</i>	Rough earth snake
<i>Virginia valeriae</i>	Western earth snake
<i>Heterodon platyrhinos</i>	Eastern hognose snake
<i>Tantilla nigriceps</i>	Plains black-headed snake
<i>Micrurus fulvius tenere</i>	Texas coral snake
<i>Agkistrodon contortrix</i>	Copperhead
<i>Agkistrodon piscivorus leucostoma</i>	Western cottonmouth
<i>Sistrurus catenatus</i>	Massasauga
<i>Sistrurus miliarius streckeri</i>	Western pigmy rattlesnake
<i>Crotalus horridus</i>	Caneback rattlesnake
<i>Elaphe obsoleta lindheimeri</i>	Texas rat snake
<i>Pituophis melanoleucus sayi</i>	Bullsnake
<i>Lampropeltis getulus</i>	Common king snake
<i>Lampropeltis doliata amaura</i>	Milk snake
<i>Lampropeltis calligaster calligaster</i>	Prairie king snake
<i>Rhinocheilus lecontei tessellatus</i>	Texas long-nosed snake
<i>Sonora episcopa episcopa</i>	Great Plains ground snake
<i>Hypsiglena torquata</i>	Night snake
<i>Tantilla gracilis</i>	Flat-headed snake
<i>Crotalus atrox</i>	Western diamondback rattlesnake
<b>BIRDS</b>	
<i>Gavia immer</i>	Common loon
<i>Gavia stellata</i>	Red-throated loon
<i>Podiceps grisegena</i>	Red-necked grebe
<i>Podiceps auritus</i>	Horned grebe
<i>Podiceps caspicus</i>	Eared grebe
<i>Podiceps dominicus</i>	Least grebe
<i>Aechmophorus occidentalis</i>	Western grebe
<i>Podilymbus podiceps</i>	Pied-billed grebe
<i>Puffinus iherminieri</i>	Audubon's shearwater
<i>Phaethon lepturus</i>	White-tailed tropicbird
<i>Pelecanus erythrorhynchos</i>	White pelican
<i>Pelecanus occidentalis</i>	Brown pelican
<i>Sula dactylatra</i>	Blue-faced booby
<i>Morus bassanus</i>	Gannet
<i>Phalacrocorax auritus</i>	Double-crested cormorant
<i>Phalacrocorax olivaceus</i>	Olivaceous cormorant

**Table 9. Wildlife Resources in the Trinity River Drainage System  
(Source: Corps, 1975) (Continued)**

SPECIES NAME	COMMON NAME
<i>Anhinga anhinga</i>	Anhinga, water-turkey
<i>Fregata magnificens</i>	Magnificent frigatebird
<i>Ardea occidentalis</i>	Great white heron
<i>Ardea herodias</i>	Great blue heron
<i>Casmerodius albus</i>	Common egret
<i>Leucophoyx thula</i>	Snowy egret
<i>Dichromanassa rufescens</i>	Reddish egret
<i>Hydranassa tricolor</i>	Louisiana heron
<i>Florida caerulea</i>	Little blue heron
<i>Butorides virescens</i>	Green heron
<i>Bubulcus ibis</i>	Cattle egret
<i>Nycticorax nycticorax</i>	Black-crowned night heron
<i>Nyctanassa violacea</i>	Yellow-crowned night heron
<i>Botaurus lentiginosus</i>	American Bittern
<i>Ixobrychus exilis</i>	Least bittern
<i>Mycteria americana</i>	Wood ibis
<i>Plegadis chihi</i>	White-faced ibis
<i>Eudocimus albus</i>	White ibis
<i>Ajaia ajaja</i>	Roseate spoonbill
<i>Olor columbianus</i>	Whistling swan
<i>Branta canadensis</i>	Canada goose
<i>Branta bernicla</i>	Brant
<i>Anas rubripes</i>	Black duck
<i>Anas fulvigula</i>	Mottled duck
<i>Anas strepera</i>	Gadwall
<i>Mareca penelope</i>	European widgeon
<i>Mareca americana</i>	American widgeon
<i>Anas acuta</i>	Pintail
<i>Anas carolinensis</i>	Green-winged teal
<i>Anas discors</i>	Blue-winged teal
<i>Anas cyanoptera</i>	Cinnamon teal
<i>Anser albifrons</i>	White-fronted goose
<i>Chen hyperborea</i>	Snow goose
<i>Chen caerulescens</i>	Blue goose
<i>Chen rossii</i>	Ross' goose
<i>Dendrocygna autumnalis</i>	Black-bellied tree duck
<i>Dendrocygna bicolor</i>	Fulvous tree duck
<i>Anas platyrhynchos</i>	Mallard
<i>Clangula hyemalis</i>	Oldsquaw
<i>Melanitta deglandi</i>	White-winged scoter

**Table 9. Wildlife Resources in the Trinity River Drainage System  
(Source: Corps, 1975) (Continued)**

SPECIES NAME	COMMON NAME
<i>Melanitta perspicillata</i>	Surf scoter
<i>Oidemia americana</i>	American scoter
<i>Oxyura jamaicensis</i>	Ruddy duck
<i>Oxyura dominica</i>	Masked duck
<i>Lophodytes cucullatus</i>	Hooded merganser
<i>Mergus merganser</i>	Common merganser
<i>Spatula clypeata</i>	Shoveler
<i>Aix sponsa</i>	Wood duck
<i>Aythya americana</i>	Redhead
<i>Aythya collaris</i>	Ring-necked duck
<i>Aythya valisineria</i>	Canvasback
<i>Aythya marila</i>	Greater scaup
<i>Aythya affinis</i>	Lesser scaup
<i>Bucephala clangula</i>	Common goldeneye
<i>Bucephala albeola</i>	Bufflehead
<i>Accipiter striatus</i>	Sharp-shinned hawk
<i>Accipiter cooperii</i>	Cooper's hawk
<i>Buteo jamaicensis</i>	Red-tailed hawk
<i>Buteo harlani</i>	Harlan's hawk
<i>Buteo lineatus</i>	Red-shouldered hawk
<i>Buteo lagopus</i>	Rough-legged hawk
<i>Buteo regalis</i>	Ferruginous hawk
<i>Craxirex platypterus</i>	Broad-winged hawk
<i>Mergus serrator</i>	Red-breasted merganser
<i>Cathartes aura</i>	Turkey vulture
<i>Coragyps atratus</i>	Black vulture
<i>Elanus leucurus</i>	White-tailed kite
<i>Elanoides forficatus</i>	Swallow-tailed kite
<i>Ictinia mississippiensis</i>	Mississippi kite
<i>Accipter gentilis</i>	Goshawk
<i>Buteo swainsoni</i>	Swainson's hawk
<i>Buteo albicaudatus</i>	White-tailed hawk
<i>Parabuteo unicinctus</i>	Harris' hawk
<i>Aquila chryaetos</i>	Golden eagle
<i>Haliaeetus leucocephalus</i>	Bald eagle
<i>Circus cyaneus</i>	Marsh hawk
<i>Pandion haliaetus</i>	Osprey, fish hawk
<i>Caracara cheriway</i>	Caracara
<i>Falco mexicanus</i>	Prairie falcon
<i>Falco peregrinus</i>	Peregrine flacon

**Table 9. Wildlife Resources in the Trinity River Drainage System  
(Source: Corps, 1975) (Continued)**

SPECIES NAME	COMMON NAME
<i>Falco columbarius</i>	Pigeon hawk
<i>Falco sparverius</i>	Sparrow hawk
<i>Tympanuchus cupido</i>	Greater Prairie chicken
<i>Colinus virginianus</i>	Bobwhite
<i>Grus canadensis</i>	Sandhill crane
<i>Meleagris gallopavo</i>	Wild turkey
<i>Fulica americana</i>	American coot
<i>Haematopus palliatus</i>	American oystercatcher
<i>Charadrius melodus</i>	Piping plover
<i>Charadrius alexandrinus</i>	Snowy plover
<i>Charadrius wilsonia</i>	Wilson's plover
<i>Charadrius semipalmatus</i>	Semipalmated plover
<i>Charadrius vociferus</i>	Killdeer
<i>Pluvialis dominica</i>	American golder plover
<i>Rallus elegans</i>	King rail
<i>Rallus longirotris</i>	Clapper rail
<i>Rallus limicola</i>	Virginia rail
<i>Porzana carolina</i>	Sora
<i>Coturnicops noveboracensis</i>	Yellow rail
<i>Laterallus jamaicensis</i>	Black rail
<i>Porphyryla martinica</i>	Purple gallinule
<i>Gallinula chloropus</i>	Common gallinule
<i>Tringa solitaria</i>	Solitary sandpiper
<i>Catoptrophorus semipalmatus</i>	Willet
<i>Totanus melanoleucus</i>	Greater yellowlegs
<i>Totanus flavipes</i>	Lesser yellowlegs
<i>Calidris canutus</i>	Knot
<i>Erolia melanotos</i>	Pectoral sandpiper
<i>Erolia fuscicollis</i>	White-rumped sandpiper
<i>Erolia bairdii</i>	Baird's sandpiper
<i>Erolia minutilla</i>	Least sandpiper
<i>Erolia alpina</i>	Dunlin
<i>Squatarola squatarola</i>	Black-bellied plover
<i>Arenaria interpres</i>	Ruddy turnstone
<i>Philohela minor</i>	American woodcock
<i>Capella gallinago</i>	Common snipe
<i>Numenius americanus</i>	Long-billed curlew
<i>Numenius phaeopus hudsonicus</i>	Hudsonian curlew, whimbrel
<i>Bartramia longicauda</i>	Upland plover
<i>Actitis macularia</i>	Spotted sandpiper

**Table 9. Wildlife Resources in the Trinity River Drainage System  
(Source: Corps, 1975) (Continued)**

SPECIES NAME	COMMON NAME
<i>Recurvirostra americana</i>	American avocet
<i>Himantopus mexicanus</i>	Black-necked stilt
<i>Steganopus tricolor</i>	Wilson's phalarope
<i>Lobipes lobatus</i>	Northern phalarope
<i>Larus argentatus</i>	Herring gull
<i>Larus delawarensis</i>	Ring-billed gull
<i>Larus atricilla</i>	Laughing gull
<i>Limnodromus griseus</i>	Short-billed dowitcher
<i>Limnodromus scolopaceus</i>	Long-billed dowitcher
<i>Micropalama himantopus</i>	Stilt sandpiper
<i>Ereunetes pusillus</i>	Semipalmated sandpiper
<i>Ereunetes mauri</i>	Western sandpiper
<i>Tryngites subruficollis</i>	Buff-breasted sandpiper
<i>Limosa fedoa</i>	Marbled godwit
<i>Limosa haemastica</i>	Hudsonian godwit
<i>Crocethia alba</i>	Sanderling
<i>Hydroprogne caspia</i>	Caspian tern
<i>Chlidonias niger</i>	Black tern
<i>Rynchops nigra</i>	Black skimmer
<i>Columba livia</i>	Rock dove, pigeon
<i>Zenaidura macroura</i>	Mourning dove
<i>Zenaida asiatica</i>	White-winged dove
<i>Columbigallina passerina</i>	Ground dove
<i>Scardafella inca</i>	Inca dove
<i>Larus pipixcan</i>	Frankin's gull
<i>Larus philadelphia</i>	Bonaparte's gull
<i>Gelochelidon nilotica</i>	Gull-billed tern
<i>Sterna forsteri</i>	Forster's tern
<i>Sterna hirundo</i>	Common tern
<i>Sterna fuscata</i>	Sooty tern
<i>Sterna albifrons</i>	Least tern
<i>Thalasseus maximus</i>	Royal tern
<i>Thalasseus sandvicensis</i>	Sandwich tern
<i>Strix varia</i>	Barred owl
<i>Asio otus</i>	Long-eared owl
<i>Asio flammeus</i>	Short-eared owl
<i>Aegolius acadicus</i>	Saw-whet owl
<i>Caprimulgus carolinensis</i>	Chuck-will's widow
<i>Caprimulgus vociferus</i>	Whip-poor-will
<i>Chordeiles minor</i>	Common night hawk



**Table 9. Wildlife Resources in the Trinity River Drainage System  
(Source: Corps, 1975) (Continued)**

SPECIES NAME	COMMON NAME
<i>Chaetura pelagic</i>	Chimney swift
<i>Coccyzus americanus</i>	Yellow-billed cuckoo
<i>Coccyzus erythrophthalmus</i>	Black-billed cuckoo
<i>Geococcyx californianus</i>	Roadrunner
<i>Crotophaga sulcirostris</i>	Groove-billed ani
<i>Tyto alba</i>	Barn owl
<i>Otus asio</i>	Screech owl
<i>Bubo virginianus</i>	Great horned owl
<i>Speotyto cunicularia</i>	Burrowing owl
<i>Centurus carolinus</i>	Red-bellied woodpecker
<i>Melanerpes erythrocephalus</i>	Red-headed woodpecker
<i>Sphyrapicus varius</i>	Yellow-bellied sapsucker
<i>Dendrocopos villosus</i>	Hairy woodpecker
<i>Dendrocopos pubescens</i>	Downy woodpecker
<i>Dendrocopos scalaris</i>	Ladder-backed woodpecker
<i>Dendrocopos borealis</i>	Red-cockaded woodpecker
<i>Tyrannus tyrannus</i>	Eastern kingbird
<i>Archilochus colubris</i>	Ruby-throated hummingbird
<i>Archilochus alexandri</i>	Black-chinned hummingbird
<i>Selasphorus rufus</i>	Rufous hummingbird
<i>Ceryle alcyon</i>	Belted kingfisher
<i>Colaptes auratus</i>	Yellow-shafted flicker
<i>Colaptes cafer</i>	Red-shafted flicker
<i>Dryocopus pileatus</i>	Pileated woodpecker
<i>Contopus virens</i>	Eastern wood pewee
<i>Nuttallornis borealis</i>	Olive-sided flycatcher
<i>Pyrocephalus rubinus</i>	Vermillion flycatcher
<i>Eremophila alpestris</i>	Horned lark
<i>Tachycineta thalassina</i>	Violet-green swallow
<i>Iridoprocne bicolor</i>	Tree swallow
<i>Riparia riparia</i>	Bank swallow
<i>Stelgidopteryx ruficollis</i>	Rough-winged swallow
<i>Tyrannus verticalis</i>	Western kingbird
<i>Muscivora forficata</i>	Scissor-tailed flycatcher
<i>Myiarchus crinitus</i>	Great crested flycatcher
<i>Sayornis phoebe</i>	Eastern phoebe
<i>Sayornis saya</i>	Say's phoebe
<i>Empidonax flaviventris</i>	Yellow-bellied flycatcher
<i>Empidonax virescens</i>	Acadian flycatcher
<i>Empidonax trailii</i>	Traill's flycatcher

**Table 9. Wildlife Resources in the Trinity River Drainage System  
(Source: Corps, 1975) (Continued)**

SPECIES NAME	COMMON NAME
<i>Empidonax minimus</i>	Least flycatcher
<i>Sitta carolinensis</i>	White-breasted nuthatch
<i>Sitta canadensis</i>	Red-breasted nuthatch
<i>Sitta pusilla</i>	Brown-breasted nuthatch
<i>Certhia familiaris</i>	Brown creeper
<i>Troglodytes aedon</i>	House wren
<i>Troglodytes troglodytes</i>	Winter wren
<i>Thryomanes bewickii</i>	Bewick's wren
<i>Thryothorus ludovicianus</i>	Carolina wren
<i>Hirundo rustica</i>	Barn swallow
<i>Petrochelidon pyrrhonota</i>	Cliff swallow
<i>Progne subis</i>	Purple martin
<i>Cyanocitta cristata</i>	Blue jay
<i>Corvus brachyrhynchos</i>	Common crow
<i>Corvus ossifragus</i>	Fish crow
<i>Parus atricapillus</i>	Black-capped chickadee
<i>Parus carolinensis</i>	Carolina chickadee
<i>Parus bicolor</i>	Tufted titmouse
<i>Hylocichla guttata</i>	Hermit thrush
<i>Hylocichla ustulata</i>	Swainson's thrush
<i>Hylocichla minima</i>	Gray-cheeked thrush
<i>Hylocichla fuscescens</i>	Veery
<i>Sialia sialis</i>	Eastern bluebird
<i>Sialia mexicana</i>	Western bluebird
<i>Sialia currucoides</i>	Mountain bluebird
<i>Myadestes townsendi</i>	Townsend's solitaire
<i>Polioptila caerulea</i>	Blue-gray gnatcatcher
<i>Telmatodytes palustris</i>	Long-billed marsh wren
<i>Cistothorus platensis</i>	Short-billed marsh wren
<i>Mimus polyglottos</i>	Mockingbird
<i>Dumetella carolinensis</i>	Catbird
<i>Toxostoma rufum</i>	Brown thrasher
<i>Oreoscoptes montanus</i>	Sage thrasher
<i>Turdus migratorius</i>	Robin
<i>Hylocichla mustelina</i>	Wood thrush
<i>Vireo atricapilla</i>	Black-capped vireo
<i>Vireo griseus</i>	White-eyed vireo
<i>Vireo bellii</i>	Bell's vireo
<i>Vireo flavifrons</i>	Yellow-throated vireo
<i>Vireo solitarius</i>	Solitary vireo

**Table 9. Wildlife Resources in the Trinity River Drainage System  
(Source: Corps, 1975) (Continued)**

SPECIES NAME	COMMON NAME
<i>Vireo olivaceus</i>	Red-eyed vireo
<i>Vireo philadelphicus</i>	Philadelphia vireo
<i>Vireo gilvus</i>	Warbling vireo
<i>Miniotilta varia</i>	Black and white warbler
<i>Regulus satrapa</i>	Golden crowned kinglet
<i>Regulus calendula</i>	Ruby crowned kinglet
<i>Anthus spinoletta</i>	Water pipit
<i>Anthus spragueii</i>	Sprague's pipit
<i>Bombycilla cedrorum</i>	Cedar waxwing
<i>Lanius excubitor</i>	Northern shrike
<i>Lanius ludovicianus</i>	Loggerhead shrike
<i>Sturnus vulgaris</i>	Starling
<i>Parula americana</i>	Parula warbler
<i>Dendroica petechia</i>	Yellow warbler
<i>Dendroica magnolia</i>	Magnolia warbler
<i>Dendroica caerulescens</i>	Black throated blue warbler
<i>Dendroica coronata</i>	Myrtle warbler
<i>Dendroica auduboni</i>	Audubon's warbler
<i>Dendroica nigrescens</i>	Black throated gray warbler
<i>Dendroica virens</i>	Black throated green warbler
<i>Protonotaria citrea</i>	Prothonotary warbler
<i>Limnothlypis swainsonii</i>	Swainson's warbler
<i>Helmitheros vermivorus</i>	Worm eating warbler
<i>Vermivora chrysoptera</i>	Golden winged warbler
<i>Vermivora pinus</i>	Blue winged warbler
<i>Vermivora peregrina</i>	Tennessee warbler
<i>Vermivora celata</i>	Orange crowned warbler
<i>Vermivora ruficapilla</i>	Nashville warbler
<i>Dendroica discolor</i>	Prairie warbler
<i>Dendroica palmarum</i>	Palm warbler
<i>Seiurus aurocapillus</i>	Ovenbird
<i>Seiurus noveboracensis</i>	Northern waterthrush
<i>Seiurus motacilla</i>	Louisiana waterthrush
<i>Oporornis formosus</i>	Kentucky warbler
<i>Oporornis agilis</i>	Connecticut warbler
<i>Oporornis philadelphia</i>	Mourning warbler
<i>Dendroica chrysoparia</i>	Golden-cheeked warbler
<i>Dendroica cerulea</i>	Cerulean warbler
<i>Dendroica fusca</i>	Blackburnian warbler
<i>Dendroica dominica</i>	Yellow-thorated warbler

**Table 9. Wildlife Resources in the Trinity River Drainage System  
(Source: Corps, 1975) (Continued)**

SPECIES NAME	COMMON NAME
<i>Dendroica pensylvanica</i>	Chestnut-sided warbler
<i>Dendroica castanea</i>	Bay-breasted warbler
<i>Dendroica striata</i>	Blackpoll warbler
<i>Dendroica pinus</i>	Pine warbler
<i>Sturnella neglecta</i>	Western meadowlark
<i>Xanthocephalus xanthocephalus</i>	Yellow-breasted blackbird
<i>Agelaius phoeniceus</i>	Red-winged blackbird
<i>Icterus spurius</i>	Orchard oriole
<i>Icterus glabula</i>	Baltimore oriole
<i>Icterus bullockii</i>	Bullock's oriole
<i>Euphagus carolinus</i>	Rusty blackbird
<i>Euphagus cyanocephalus</i>	Brewer's blackbird
<i>Cassidix mexicanus</i>	Great tailed grackle
<i>Geothlypis trichas</i>	Yellowthroat
<i>Icteria virens</i>	Yellow-breasted chat
<i>Wilsonia citrina</i>	Hooded warbler
<i>Wilsonia pusilla</i>	Wilson's warbler
<i>Wilsonia canadensis</i>	Canada warbler
<i>Setophaga ruticilla</i>	American redstart
<i>Passer domesticus</i>	House sparrow, English sparrow
<i>Dolichonyx oryzivorus</i>	Bobolink
<i>Sturnella magna</i>	Eastern meadowlark
<i>Guiraca caerulea</i>	Blue grosbeak
<i>Passerina cyanea</i>	Indigo bunting
<i>Passerina amoena</i>	Lazuli bunting
<i>Passerina ciris</i>	Painted bunting
<i>Spiza americana</i>	Dickcissel
<i>Hesperiphona vespertina</i>	Evening grosbeak
<i>Carpodacus purpureus</i>	Purple finch
<i>Carpodacus mexicanus</i>	House finch
<i>Quiscalus quiscula</i>	Common grackle
<i>Molothrus ater</i>	Brown-headed cowbird
<i>Piranga ludoviciana</i>	Western tanager
<i>Piranga olivacea</i>	Scarlet tanager
<i>Prianga rubra</i>	Summer tanager
<i>Richomndena cardinalis</i>	Cardinal
<i>Pheucticus ludovicianus</i>	Rose-breasted grosbeak
<i>Pheucticus melanocephalus</i>	Black-headed grosbeak
<i>Ammodramus bairdii</i>	Baird's sparrow
<i>Passerherbulus caudacutus</i>	Le Conte's sparrow

**Table 9. Wildlife Resources in the Trinity River Drainage System  
(Source: Corps, 1975) (Continued)**

SPECIES NAME	COMMON NAME
<i>Passerherbulus henslowii</i>	Henslow's sparrow
<i>Ammodramus caudacuta</i>	Sharp-tailed sparrow
<i>Ammodramus maritima</i>	Seaside sparrow
<i>Pooecetes gramineus</i>	Vesper sparrow
<i>Chondestes grammacus</i>	Lark sparrow
<i>Aimophila ruficeps</i>	Rufous-crowned sparrow
<i>Spinus pinus</i>	Pine siskin
<i>Spinus tristis</i>	American goldfinch
<i>Spinus psaltria</i>	Lesser goldfinch
<i>Chlorura chlorura</i>	Green-tailed towhee
<i>Pipilo erythrophthalmus</i>	Rufous-sided towhee
<i>Calamospiza melanocorys</i>	Lark bunting
<i>Passerculus sandwichensis</i>	Savannah sparrow
<i>Ammodramus savannarum</i>	Grasshopper sparrow
<i>Zonotrichia querula</i>	Harris' sparrow
<i>Zonotrichia leucophrys</i>	White crowned sparrow
<i>Zonotrichia albicollis</i>	White throated sparrow
<i>Passerella iliaca</i>	Fox sparrow
<i>Melospiza lincolni</i>	Lincoln's sparrow
<i>Melospiza georgiana</i>	Swamp sparrow
<i>Melospiza melodia</i>	Song sparrow
<i>Rhynchophanes mccownii</i>	McCown's longspur
<i>Calcarius lapponicus</i>	Lapland longspur
<i>Aimophila aestivalis</i>	Bachman's sparrow
<i>Aimophila cassinii</i>	Cassin's sparrow
<i>Junco hyemalis</i>	Slate-colored junco
<i>Junco oreganus</i>	Oregon junco
<i>Spizella arborea</i>	Tree sparrow
<i>Spizella passerina</i>	Chipping sparrow
<i>Spizella pallid</i>	Clay-colored sparrow
<i>Spizella breweri</i>	Brewer's sparrow
<i>Spizella pusilla</i>	Field sparrow
<i>Calcarius pictus</i>	Smith's longspur
<i>Calcarius ornatus</i>	Chestnut collared longspur
MAMMALS	
<i>Didelphis marsupialis</i>	Opossum
<i>Cryptotis parva</i>	Least shrew
<i>Blarina brevicauda</i>	Shorttail shrew
<i>Scalopus aquaticus</i>	Eastern mole
<i>Lasionycteris noctivagans</i>	Silver-haired bat

**Table 9. Wildlife Resources in the Trinity River Drainage System  
(Source: Corps, 1975) (Continued)**

SPECIES NAME	COMMON NAME
<i>Pipistrellus subflavus</i>	Eastern pipistrel
<i>Eptesicus fuscus</i>	Big brown bat
<i>Mustela frenata</i>	Longtail weasel
<i>Mustela vison</i>	Mink
<i>Lutra canadensis</i>	River otter
<i>Spilogale putorius</i>	Spotted skunk
<i>Mephitis mephitis</i>	Striped skunk
<i>Conepatus leuconotus</i>	Hognose skunk
<i>Canis latrans</i>	Coyote
<i>Canis niger</i>	Red wolf
<i>Vulpes fulva</i>	Red fox
<i>Lasiurus borealis</i>	Red bat
<i>Lasiurus seminolus</i>	Seminole bat
<i>Lasiurus cinereus</i>	Hoary bat
<i>Lasiurus intermedius</i>	Eastern yellow bat
<i>Nycticeius humeralis</i>	Evening bat
<i>Tadarida brasiliensis</i>	Mexican freetail bat
<i>Procyon lotor</i>	Raccoon
<i>Bassariscus astutus</i>	Ringtail cat
<i>Perognathus hispidus</i>	Hispid pocket mouse
<i>Castor canadensis</i>	Beaver
<i>Reithrodontomys humalis</i>	Eastern harvest mouse
<i>Reithrodontomys montanus</i>	Plains harvest mouse
<i>Reithrodontomys fulvescens</i>	Fulvous harvest mouse
<i>Peromyscus maniculatus</i>	Deer mouse
<i>Peromyscus leucopus</i>	White-footed mouse
<i>Peromyscus gossypinus</i>	Cotton mouse
<i>Urocyon cinereoargenteus</i>	Gray fox
<i>Felis concolor</i>	Mountain lion
<i>Lynx rufus</i>	Bobcat
<i>Citellus tridecemlineatus</i>	Thirteen-lined ground squirrel
<i>Sciurus carolinensis</i>	Eastern gray squirrel
<i>Sciurus niger</i>	Eastern fox squirrel
<i>Glaucomys volans</i>	Southern flying squirrel
<i>Geomys bursarius</i>	Plains pocket gopher
<i>Rattus norvegicus</i>	Norway rat
<i>Rattus rattus</i>	Black rat
<i>Mus musculus</i>	House mouse
<i>Myocastor coypus</i>	Nutria
<i>Lepus californicus</i>	Blacktail jackrabbit

**Table 9. Wildlife Resources in the Trinity River Drainage System  
(Source: Corps, 1975) (Continued)**

SPECIES NAME	COMMON NAME
<i>Sylvilagus floridanus</i>	Eastern cottontail
<i>Sylvilagus aquaticus</i>	Swamp rabbit
<i>Odocoileus virginianus</i>	White tailed deer
<i>Peromyscus boylei</i>	Brush mouse
<i>Peromyscus nuttalli</i>	Golden mouse
<i>Baiomys taylori</i>	Pygmy mouse
<i>Neotoma floridana</i>	Eastern woodrat
<i>Oryzomys palustris</i>	Rice rat
<i>Sigmodon hispidus</i>	Hispid cotton rat
<i>Pitymys pinetorum</i>	Pine vole
<i>Ondatra zibethica</i>	Muskrat
<i>Dasyopus novemcinctus</i>	Armadillo
<i>Trichechus manatus</i>	Manatee

**Table10. List of Trees Found in the Trinity River Basin (Source: Corps, 1975)**

<b>COMMON NAME</b>	<b>SPECIES NAME</b>
American basswood	<i>Tilia glabra</i>
American beautyberry	<i>Callicarpa americana</i>
American elder	<i>Iva species</i>
American elm	<i>Ulmus americana</i>
American holly	<i>Ilex opaca</i>
Bald cypress	<i>Taxodium distichum</i>
Black gum	<i>Nyssa sylvatica</i>
Black hickory	<i>Carya texana</i>
Black walnut	<i>Juglans nigra</i>
Black willow	<i>Salix nigra</i>
Blue beech	<i>Cardinus caroliniana</i>
Box elder	<i>Acer negundo</i>
Bristly greenbrier	<i>Smilax hispida</i>
Bur oak	<i>Quercus macrocarpa</i>
Carolina basswood	<i>Tilia caroliniana</i>
Cat brier	<i>Smilax bona-nox</i>
Cedar elm	<i>Ulmus crassifolia</i>
Chestnut oak	<i>Quercus montana</i>
Common buttonbush	<i>Cephalanthus occidentalis</i>
Common green brier	<i>Smilax rotundifolia</i>
Coral berry	<i>Symphoricarpos orbiculatus</i>
Deciduous holly	<i>Ilex decidua</i>
Dwarf palmetto	<i>Sabal minor</i>
Ear-drop vine	<i>Brunnichia ouata</i>
Eastern cottonwood	<i>Populus deltoides</i>
Eastern red cedar	<i>Juniperus virginiana</i>
Farquharberry	<i>Vaccinium arboreum</i>
Flowering dogwood	<i>Cornus florida</i>
Forestiera	<i>Forestiera</i>
Green ash	<i>Fraxinus pennsylvanica</i>
Gum bumelia	<i>Bumelia species</i>
Hawthorn	<i>Crataegus species</i>
Honeylocust	<i>Gleditsia triacanthos</i>
Laurel oak	<i>Quercus laurifolia</i>
Loblolly pine	<i>Pinus taeda</i>
Mustang grape	<i>Vitis mustangensis</i>
Osage orange	<i>Maclura pomifera</i>
Overcup oak	<i>Quercus lyrata</i>
Pecan	<i>Carya illinoensis</i>



**Table10. List of Trees Found in the Trinity River Basin (Source: Corps, 1975)  
(Continued)**

COMMON NAME	SPECIES NAME
Pepper vine	<i>Ampelopsis arborea</i>
Persimmon	<i>Diospyros virginiana</i>
Poison ivy	<i>Rhus toxicodenoron</i>
Possum haw	<i>Viburnum nudum</i>
Post oak	<i>Quercus stellata</i>
Red cedar, eastern	<i>Juniperus virginiana</i>
Red mulberry	<i>Morus rubra</i>
Redbud, eastern	<i>Cercis canadensi</i>
River birch	<i>Cetula nigra</i>
Roughleaf dogwood	<i>Corus drummanonii</i>
St. Peter's wort	<i>Ascyrum stans</i>
Sea myrtle	<i>Baccharis halimifolia</i>
Shumard oak	<i>Quercus shumardii</i>
Shining sumac	<i>Rhus copallina</i>
Soapberry	<i>Sapindus saponaria</i>
Southern red oak	<i>Quercus falcata</i>
Supplejack	<i>Berchemia scandens</i>
Swamp privet	<i>Forestiera acuminata</i>
Sweetgum, American	<i>Liquidambar styraciflua</i>
Sycamore, American	<i>Platanus occidentalis</i>
Texas sugarberry	<i>Celtis iaenigata</i>
Trumpet honeysuckle	<i>Campis radicans</i>
Tupelo, black	<i>Nyssa stlumtica</i>
Virginia creeper	<i>Parthenogissus quinquefolia</i>
Water elm	<i>Ulmus americana</i>
Water hickory	<i>Carya aquatic</i>
Water locust	<i>Gleditsia aquatica</i>
Wax myrtle	<i>Myrica cerifera</i>
White ash	<i>Fraxinus americana</i>
Willow oak	<i>Quercus pnellos</i>
Winged elm	<i>Ulmus alata</i>
Yaupon	<i>Ilex vomitoria</i>

**Table 11. Lake Livingston Counties - Rare, Threatened, and Endangered Species (Source: Texas PWD, 2008d)**

4-COUNTY RANGE	COMMON NAME	SCIENTIFIC NAME	FEDERAL STATUS	STATE STATUS
<b>BIRDS</b>				
Polk, San Jacinto, Trinity, & Walker Counties	<b>American Peregrine Falcon</b>	<i>Falco peregrinus anatum</i>	DL	E
Year-round resident and local breeder in west Texas, nests in tall cliff eyries; also, migrant across state from more northern breeding areas in US and Canada, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Arctic Peregrine Falcon</b>	<i>Falco peregrinus tundrius</i>	DL	T
Migrant throughout state from subspecies' far northern breeding range, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Bachman's Sparrow</b>	<i>Aimophila aestivalis</i>		T
Open pine woods with scattered bushes or understory, brushy or overgrown hillsides, overgrown fields with thickets and brambles, grassy orchards; nests on ground against grass tuft or under low shrub.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Bald Eagle</b>	<i>Haliaeetus leucocephalus</i>	DL	T
Found primarily near rivers and large lakes; nests in tall trees or on cliffs near water; communally roosts, especially in winter; hunts live prey, scavenges, and pirates food from other birds.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Henslow's Sparrow</b>	<i>Ammodramus henslowii</i>		
Wintering individuals (not flocks) found in weedy fields or cut-over areas where lots of bunch grasses occur along with vines and brambles; a key component is bare ground for running/walking.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Peregrine Falcon</b>	<i>Falco peregrinus</i>	DL	E T
Both subspecies migrate across the state from more northern breeding areas in US and Canada to winter along coast and farther south; subspecies (F. p. anatum) is also a resident breeder in west Texas; the two subspecies' listing statuses differ, thus the species level shows this dual listing status; because the subspecies are not easily distinguishable at a distance, reference is generally made only to the species level; see				

**Table 11. Lake Livingston Counties - Rare, Threatened, and Endangered Species (Source: Texas PWD, 2008d)  
(Continued)**

4-COUNTY RANGE	COMMON NAME	SCIENTIFIC NAME	FEDERAL STATUS	STATE STATUS
subspecies for habitat.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Piping Plover</b>	<i>Charadrius melodus</i>	LT	T
Wintering migrant along the Texas Gulf Coast; beaches and bayside mud or salt flats				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Red-cockaded Woodpecker</b>	<i>Picoides borealis</i>	LE	E
Cavity nests in older pine (60+ years); forages in younger pine (30+ years); prefers longleaf, shortleaf, and loblolly.				
Polk & San Jacinto Counties	<b>Swallow-tailed Kite</b>	<i>Elanoides forficatus</i>		T
Lowland forested regions, especially swampy areas, ranging into open woodland; marshes, along rivers, lakes, and ponds; nests high in tall tree in clearing or on forest woodland edge, usually in pine, cypress, or various deciduous trees.				
Trinity County	<b>White-faced Ibis</b>	<i>Plegadis chihi</i>		T
Prefers freshwater marshes, sloughs, and irrigated rice fields, but will attend brackish and saltwater habitats; nests in marshes, in low trees, on the ground in bulrushes or reeds, or on floating mats.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Wood Stork</b>	<i>Mycteria americana</i>		T
Forages in prairie ponds, flooded pastures or fields, ditches, and other shallow standing water, including salt-water; usually roosts communally in tall snags, sometimes in association with other wading birds (i.e. active heronries); breeds in Mexico and birds move into Gulf States in search of mud flats and other wetlands, even those associated with forested areas; formerly nested in Texas, but no breeding records since 1960.				
<b>FISHES</b>				
Polk, San Jacinto, & Trinity Counties	<b>American eel</b>	<i>Anguilla rostrata</i>		
Coastal waterways below reservoirs to gulf; spawns January to February in ocean, larva move to coastal waters, metamorphose, then females move into freshwater; most aquatic habitats with access to ocean, muddy bottoms, still waters, large streams, lakes; can travel overland in wet areas; males in brackish estuaries; diet varies widely, geographically, and seasonally.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Creek chubsucker</b>	<i>Erimyzon oblongus</i>		T
Tributaries of the Red, Sabine, Neches, Trinity, and San Jacinto rivers; small rivers and creeks of various types; seldom in impoundments; prefers headwaters, but seldom occurs in springs; young typically in headwater rivulets or marshes; spawns in river mouths or pools, riffles, lake outlets, upstream creeks.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Paddlefish</b>	<i>Polyodon spathula</i>		T
Prefers large, free-flowing rivers, but will frequent impoundments with access to spawning sites; spawns in fast, shallow water over gravel bars;				

**Table 11. Lake Livingston Counties - Rare, Threatened, and Endangered Species (Source: Texas PWD, 2008d)  
(Continued)**

4-COUNTY RANGE	COMMON NAME	SCIENTIFIC NAME	FEDERAL STATUS	STATE STATUS
larvae may drift from reservoir to reservoir.				
<b>MAMMALS</b>				
Polk, San Jacinto, & Trinity Counties	<b>Black bear</b>	<i>Ursus americanus</i>	T/SA;NL	T
Bottomland hardwoods and large tracts of inaccessible forested areas; due to field characteristics similar to Louisiana Black Bear (LT, T), treat all east Texas black bears as federal and state listed Threatened.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Louisiana black bear</b>	<i>Ursus americanus luteolus</i>	LT	T
Possible as transient; bottomland hardwoods and large tracts of inaccessible forested areas.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Plains spotted skunk</b>	<i>Spilogale putorius interrupta</i>		
Catholic; open fields, prairies, croplands, fence rows, farmyards, forest edges, and woodlands; prefers wooded, brushy areas and tallgrass prairie.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Rafinesque's big-eared bat</b>	<i>Corynorhinus rafinesquii</i>		T
Roosts in cavity trees of bottomland hardwoods, concrete culverts, and abandoned man-made structures.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Red wolf</b>	<i>Canis rufus</i>	LE	E
Extirpated; formerly known throughout eastern half of Texas in brushy and forested areas, as well as coastal prairies.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Southeastern myotis bat</b>	<i>Myotis austroriparius</i>		
Roosts in cavity trees of bottomland hardwoods, concrete culverts, and abandoned man-made structures.				
<b>MOLLUSKS</b>				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Creeper (squawfoot)</b>	<i>Strophitus undulatus</i>		
Small to large streams, prefers gravel or gravel and mud in flowing water; Colorado, Guadalupe, San Antonio, Neches (historic), and Trinity (historic) River basins.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Fawnsfoot</b>	<i>Truncilla donaciformis</i>		
Small and large rivers especially on sand, mud, rocky mud, and sand and gravel, also silt and cobble bottoms in still to swiftly flowing waters; Red (historic), Cypress (historic), Sabine (historic), Neches, Trinity, and San Jacinto River basins.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Little spectaclecase</b>	<i>Villosa lienosa</i>		



**Table 11. Lake Livingston Counties - Rare, Threatened, and Endangered Species (Source: Texas PWD, 2008d)  
(Continued)**

4-COUNTY RANGE	COMMON NAME	SCIENTIFIC NAME	FEDERAL STATUS	STATE STATUS
Counties				
Creeks, rivers, and reservoirs, sandy substrates in slight to moderate current, usually along the banks in slower currents; east Texas, Cypress through San Jacinto River basins.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Louisiana pigtoe</b>	<i>Pleurobema riddellii</i>		
Streams and moderate-size rivers, usually flowing water on substrates of mud, sand, and gravel; not generally known from impoundments; Sabine, Neches, and Trinity (historic) River basins.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Pistolgrip</b>	<i>Tritogonia verrucosa</i>		
Stable substrate, rock, hard mud, silt, and soft bottoms, often buried deeply; east and central Texas, Red through San Antonio River basins.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Rock pocketbook</b>	<i>Arcidens confragosus</i>		
Mud, sand, and gravel substrates of medium to large rivers in standing or slow flowing water, may tolerate moderate currents and some reservoirs, east Texas, Red through Guadalupe River basins.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Sandbank pocketbook</b>	<i>Lampsilis satura</i>		
Small to large rivers with moderate flows and swift current on gravel, gravel-sand, and sand bottoms; east Texas, Sulfur south through San Jacinto River basins; Neches River.				
Polk & Trinity Counties	<b>Southern hickorynut</b>	<i>Obovaria jacksoniana</i>		
Medium sized gravel substrates with low to moderate current; Neches, Sabine, and Cypress river basins.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Texas heelsplitter</b>	<i>Potamilus amphichaenus</i>		
Quiet waters in mud or sand and also in reservoirs; Sabine, Neches, and Trinity River basins.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Texas pigtoe</b>	<i>Fusconaia askewi</i>		
Rivers with mixed mud, sand, and fine gravel in protected areas associated with fallen trees or other structures; east Texas River basins, Sabine through Trinity rivers as well as San Jacinto River.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Wabash pigtoe</b>	<i>Fusconaia flava</i>		
Creeks to large rivers on mud, sand, and gravel from all habitats except deep shifting sands; found in moderate to swift current velocities; east				

**Table 11. Lake Livingston Counties - Rare, Threatened, and Endangered Species (Source: Texas PWD, 2008d)  
(Continued)**

4-COUNTY RANGE	COMMON NAME	SCIENTIFIC NAME	FEDERAL STATUS	STATE STATUS
Texas River basins, Red through San Jacinto River basins; elsewhere occurs in reservoirs and lakes with no flow.				
Polk and Trinity County	<b>Wartyback</b>	<i>Quadrula nodulata</i>		
Gravel and sand-gravel bottoms in medium to large rivers and on mud; Red, Sabine, Neches River basins.				
<b>CRUSTACEANS</b>				
Trinity Country	<b>A crayfish</b>	<i>Procambarus nechesae</i>		
Simple burrows in temporary or semi permanent pools in roadside ditches.				
<b>INSECTS</b>				
San Jacinto County	<b>A mayfly</b>	<i>Plauditus gloveri</i>		
NY, SC, TX; mayflies distinguished by aquatic larval stage; adult stage generally found in bankside vegetation.				
San Jacinto & Walker Counties	<b>Gulf Coast clubtail</b>	<i>Gomphus modestus</i>		
Medium river, moderate gradient, and streams with silty sand or rocky bottoms; adults forage in trees, males perch near riffles to wait for females, larvae overwinter; flight season late April - late June.				
San Jacinto, Trinity, & Walker Counties	<b>Texas emerald dragonfly</b>	<i>Somatochlora margarita</i>		
East Texas pineywoods; springfed creeks and bogs; small sandy forested streams with moderate current.				
<b>REPTILES</b>				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Alligator snapping turtle</b>	<i>Macrochelys temminckii</i>		T
Perennial water bodies; deep water of rivers, canals, lakes, and oxbows; also swamps, bayous, and ponds near deep running water; sometimes enters brackish coastal waters; usually in water with mud bottom and abundant aquatic vegetation; may migrate several miles along rivers; active March-October; breeds April-October.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Louisiana pine snake</b>	<i>Pituophis ruthveni</i>	C	T
Mixed deciduous-longleaf pine woodlands; breeds April-September.				
Walker County	<b>Texas horned lizard</b>	<i>Phrynosoma cornutum</i>		T
Open, arid and semi-arid regions with sparse vegetation, including grass, cactus, scattered brush or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive; breeds March-September.				
Polk, San Jacinto, Trinity, & Walker Counties	<b>Timber/Canebrake rattlesnake</b>	<i>Crotalus horridus</i>		T

**Table 11. Lake Livingston Counties - Rare, Threatened, and Endangered Species (Source: Texas PWD, 2008d)  
(Continued)**

4-COUNTY RANGE	COMMON NAME	SCIENTIFIC NAME	FEDERAL STATUS	STATE STATUS
Swamps, floodplains, upland pine and deciduous woodlands, riparian zones, abandoned farmland; limestone bluffs, sandy soil or black clay; prefers dense ground cover, i.e. grapevines or palmetto.				
<b>PLANTS</b>				
San Jacinto & Walker Counties	<b>Branched gay-feather</b>	<i>Liatris cymosa</i>		
Somewhat barren grassland openings in post oak woodlands on tight clay, chalky, or gravelly soils, sometimes over Catahoula Formation; flowering July-October.				
Trinity County	<b>Neches River rose-mallow</b>	<i>Hibiscus dasycalyx</i>	C	
Endemic; wet alluvial soils in swamps or open riparian woodlands; flowering June-August.				
Trinity County	<b>Texas prairie dawn</b>	<i>Hymenoxys texana</i>	LE	E
Endemic; in poorly drained depressions or base of mima mounds in open grasslands or almost barren areas on slightly saline soils; flowering March-early April.				
Polk & San Jacinto Counties	<b>Texas screwstem</b>	<i>Bartonia texana</i>		
Sandy soils in dry mesic pine or mixed pine-oak forests and forest borders; usually in fire-maintained longleaf pine savannas, but also in more mesic habitats; flowering (June-?).				
Polk County	<b>Texas trailing phlox</b>	<i>Phlox nivalis ssp texensis</i>	LE	E
Endemic; deep sandy soils in fire-maintained openings in upland longleaf pine savannas or bluejack oak woodlands; flowering March-early April.				
<p><b>Status Key:</b>            LE, LT - Federally Listed Endangered/Threatened            PE, PT - Federally Proposed Endangered/Threatened            E/SA, T/SA - Federally Listed Endangered/Threatened by Similarity of Appearance            DL, PDL - Federally Delisted/Proposed for Delisting            NL - Not Federally Listed            C - Federal Candidate for Listing; formerly Category 1 Candidate            E, T - State Listed Endangered/Threatened            NT -Not tracked or no longer tracked by the State            "blank" - Rare, but with no regulatory listing status</p>				



**Table 12. Population, Population Growth, Population Density for Counties Surrounding Lake Livingston  
(Source: U.S. Census Bureau, 1995, 2000a, 2000b)**

COUNTY	YEAR OF POPULATION					PERCENT CHANGE				COUNTY AREA SQUARE MILES	PERSONS PER SQUARE MILE <sup>(1)</sup>					AVERAGE ANNUAL GROWTH RATE 1960 – 2000
	1960	1970	1980	1990	2000	1960-1970	1970-1980	1980-1990	1990-2000		1960	1970	1980	1990	2000	
Polk	13,861	14,457	24,407	30,687	41,133	4.3	68.8	25.7	34.0	1,057.3	13.1	13.7	23.1	29.0	38.9	2.8%
San Jacinto	6,153	6,702	11,434	16,372	22,246	8.9	70.6	43.2	35.9	570.7	10.8	11.7	20.0	28.7	39.0	3.3%
Trinity	7,539	7,628	9,450	11,445	13,779	1.2	23.9	21.1	20.4	692.8	10.9	11.0	13.6	16.5	19.9	1.5%
Walker	21,475	27,680	41,789	50,917	61,758	28.9	51.0	21.8	21.3	787.5	27.3	35.2	53.1	64.7	78.4	2.7%
Totals	49,028	56,467	87,080	109,421	138,916	15.2	54.2	25.7	27.0	3,108.2	15.8	18.2	28.0	35.2	44.7	2.6%

Notes:

(1) For consistent population density trending, the land area used for calculation was based on year 2000 statistics. A limited area was added to some counties between year 1960 and year 2000.



**Table 13. Future Population Estimates for Counties Surrounding Lake Livingston  
(Source: U.S. Census Bureau, 1995, 2000a, 2000b)**

COUNTY	YEAR OF POPULATION					AVERAGE ANNUAL GROWTH RATE 1960 – 2000	COUNTY AREA SQUARE MILES	PERSONS PER SQUARE MILE <sup>(1)</sup>			
	1960	2000	2007 EST.	2010 EST.	2020 EST.			2000	2007 EST.	2010 EST.	2020 EST.
Polk	13,861	41,133	49,758	53,987	70,858	2.8%	1,057.3	38.9	47.1	51.1	67.0
San Jacinto	6,153	22,246	27,857	30,676	42,299	3.3%	570.7	39.0	48.8	53.8	74.1
Trinity	7,539	13,779	15,313	16,021	18,628	1.5%	692.8	19.9	22.1	23.1	26.9
Walker	21,475	61,758	74,298	80,424	104,731	2.7%	787.5	78.4	94.4	102.1	133.0
Totals	49,028	138,916	167,225	181,107	236,516	2.6%	3,108.2	44.7	53.8	58.3	76.1

Notes:

- <sup>(1)</sup> For consistent population density trending, the land area used for calculation was based on year 2000 statistics. A limited area was added to some counties between year 1960 and year 2000.