

# A Checklist of Texas Fresh-Water Fishes

By

CLARK HUBBS

Department of Zoology  
The University of Texas



DIVISION OF INLAND FISHERIES  
TEXAS GAME AND FISH COMMISSION

Austin, Texas

Marion Toole, Director

IF Series — No. 3

Revised Dec. 1958

## FOREWORD

A checklist of Texas fresh-water fishes

by

CLARK HUBBS

This checklist is modified from that of Hubbs (1957a). A number of changes have been made in nomenclature. *Notropis roseus* and *N. deliciosus* have been changed to *N. texanus* and *N. stramineus*, respectively, following Suttkus (1958). *Etheostoma whipplei* and *E. artesiae* have been changed to *E. radiosum* following a re-examination of available material. Two species have been added, *Gambusia senilis*, following Hubbs (1958), and *Eucinostomus argenteus*, a marine species collected in a coastal stream near Brownsville. Two species which had not been described in the previous checklist are given their names, *Gambusia geiseri*, following Hubbs and Springer (1957), and *G. heterochir*, following Hubbs (1957b).

The primary difference between the checklists is the addition of information on the distribution of fishes within the state to this list. The general concepts follow those given in a previous report (Hubbs, 1957c), but emphasize the ranges of the individual species rather than the distributional patterns. The range designations follow the common names of all species. The numbers refer to the modified game areas shown on the map. If the fish inhabits only a part of the area, it is so designated by preceding the number with letters (N. for north, etc.) indicating the part of the area inhabited by the species. The Texas range of many species is given as "coastal." These fishes typically inhabit brackish or salt water and enter only the coastal streams. Inclusion of these euryhaline species follows criteria given by Gunter (1945). Fishes inhabiting highly saline streams such as the Pecos River (up to 12.5 parts per thousand chloride) are arbitrarily considered fresh-water fishes.

Family: PETROMYZONTIDAE—Lampreys

Genus: *Ichthyomyzon* Girard

1. *I. castaneus* Girard—chestnut lamprey (N1)
2. *I. gagei* Hubbs and Trautman—southern brook lamprey (1)

Family: CARCHARHINIDAE—Sharks

Genus: *Aprionodon* Gill

3. *A. isodon* (Müeller and Henle)—smoothtooth shark (coastal)

Genus: *Carcharhinus* Blainville

4. *C. leucas* (Müeller and Henle)—bull shark (coastal)

Family: PRISTIDAE—Sawfishes

Genus: *Pristis* Linck

5. *P. pectinatus* Latham—sawfish (coastal)

Family: DASYATIDAE—Rays

Genus: *Dasyatis* Rafinesque

6. *D. sabina* (LeSueur)—tidewater stingray (coastal)

Family: POLYODONTIDAE—Paddlefish

Genus: *Polyodon* Lacépède

7. *P. spathula* (Walbaum)—paddlefish (1, N4)

Family: ACIPENSERIDAE—Sturgeons

Genus: *Scaphirhynchus* Heckel

8. *S. platyrhynchus* (Rafinesque)—shovelnose sturgeon, (hackleback) (N4, N5, N7)

Family: LEPISOSTEIDAE—Gars

Genus: *Lepisosteus* Lacépède

9. *L. spatula* Lacépède—alligator gar (1, 2, 3, N4)
10. *L. platostomus* Rafinesque—shortnose gar (N1, N4, N5, N7)
11. *L. productus* (Cope)—spotted gar (1, 2, 3, 4, 5, 6, E7)
12. *L. osseus* (Linnaeus)—longnose gar (fish gar) (1, 2, 3, 4, 5, 6, 7, 8)

Family: AMIIDAE—Bowfins

Genus: *Amia* Linnaeus

13. *A. calva* Linnaeus—bowfin (grindle, dogfish) (1, 2)

Family: ELOPIDAE—

Genus: *Elops* Linnaeus

14. *E. saurus* Linnaeus—bigeye herring (coastal)

Genus: *Megalops* Lacépède

15. *M. atlanticus* Valenciennes—tarpon (coastal)

Family: CLUPEIDAE—Herrings

Genus: *Alosa* Cuvier

16. *A. chrysochloris* (Rafinesque)—skipjack herring (1, 2, N4)

Genus: *Harengula* Valenciennes

17. *H. pensacolae* Goode and Bean—white bill (coastal)

Genus: *Brevoortia* Gill

18. *B. gunteri* Hildebrand—bay menhaden (coastal)

Genus: *Dorosoma* Rafinesque

19. *D. petenense* (Günther)—threadfin shad (1, 2, 3, 4, 5, E6)
20. *D. cepedianum* (LeSueur)—gizzard shad (hickory shad) (1, 2, 3, 4, 5, 6, 7, 8)

Family: HIODONTIDAE—Mooneyes

Genus: *Hiodon* LeSueur

21. *H. alosoides* (Rafinesque)—goldeye (N5, N7)

Family: ENGRAULIDIDAE—Anchovies

Genus: *Anchoa* Jordan and Evermann

22. *A. mitchilli* (Valenciennes)—bay anchovy (coastal)
23. *A. hepsetus* (Linnaeus)—striped anchovy (coastal)

Family: SALMONIDAE—Trouts

Genus: *Salmo* Linnaeus

24. *S. gairdneri* Richardson—rainbow trout (N8)

Family: ESOCIDAE—Pickerels

Genus: *Esox* Linnaeus

25. *E. americanus* Gmelin—grass pickerel (jackfish, redfin pickerel, little pickerel) (1, E2, NW4)
26. *E. niger* LeSueur—chain pickerel (jackfish) (N1)

Family: CHARACIDAE—Tetras

Genus: *Astyanax* Baird and Girard

27. *A. fasciatus* (Cuvier)—Banded tetra (Mexican jumper) (3, 6, 8, introduced W1, W2, W4, 5, E7)

Family: CATOSTOMIDAE—Suckers and buffalofishes

Genus: *Cycleptus* Rafinesque

28. *C. elongatus* (LeSueur)—blue sucker (1, 3, 4, 5, S6, 8)

Genus: *Ictiobus* Rafinesque

29. *I. cyprinellus* (Valenciennes)—bigmouth buffalo (blue rooter) (N1, N4, N5, N7)
30. *I. niger* (Rafinesque)—black buffalo (mongrel buffalo) (N1, N4, N5)
31. *I. bubalus* (Rafinesque)—smallmouth buffalo (razorback) (1, 2, 3, 4, 5, 6, E7, 8)

Genus: *Carpiodes* Rafinesque

32. *C. carpio* (Rafinesque)—river carpsucker (carp, white-eyes) (1, 2, 3, 4, 5, 6, 7, 8)

Genus: *Moxostoma* Rafinesque

33. *M. congestum* (Baird and Girard)—gray redhorse (river sucker) (SW1, W2, N3, S4, 5, 6, S7, W8)
34. *M. erythrurum* (Rafinesque)—golden redhorse (river sucker) (N5)
35. *M. poecilurum* Jordan—blacktail redhorse (1, E2)

Genus: *Minytrema* Jordan

36. *M. melanops* (Rafinesque)—spotted sucker (1, E2, N4, NE5, introduced 6)

Genus: *Erimyzon* Jordan

37. *E. sucetta* (Lacépède)—lake chubsucker (1, 2, rare 6)

38. *E. oblongus* (Mitchill)—creek chubsucker (1, E2)

Family: CYPRINIDAE—Shiners and minnows

Genus: *Cyprinus* Linnaeus

39. *C. carpio* Linnaeus—carp (German or European carp) (introduced 1, 2, 3, 4, 5, 6, 7, 8)

Genus: *Carassius* Nilsson

40. *C. auratus* (Linnaeus)—goldfish (introduced 3, 4, 7)

Genus: *Notemigonus* Rafinesque

41. *N. crysoleucas* (Mitchill)—golden shiner (silversides) (1, 2, 3, 4, 5, E6, E7)

Genus: *Semotilus* Rafinesque

42. *S. atromaculatus* (Mitchill)—creek chub (tuffy minnow) (E1)

Genus: *Opsopoeodus* Hay

43. *O. emiliae* Hay—pugnose minnow (1, 2, 3, 4, E5, NE6)

Genus: *Hybopsis* Agassiz

44. *H. gracilis* (Richardson)—flathead chub (N7)

45. *H. storeriana* (Kirtland)—silver chub (N1, N4, N5)

46. *H. aestivalis* (Girard)—speckled chub (1, 2, 3, 4, 5, 6, 7, 8)

Genus: *Rhinichthys* Agassiz

47. *R. cataractae* (Valenciennes)—longnose dace (W3, S6, NW8)

Genus: *Phenacobius* Cope

48. *P. mirabilis* (Girard)—suckermouth minnow (1, 2, 4, E5, E6)

Genus: *Notropis* Rafinesque

49. *N. atherinoides* Rafinesque—emerald shiner (1, 2, 4)

50. *N. percobromus* (Cope)—plains shiner (5, 7)

51. *N. oxyrhynchus* Hubbs and Bonham—sharpnose shiner (W1, W2, 4, 5, NE6, E7)

52. *N. jemezianus* (Cope)—Rio Grande shiner (S3, S6, S8)

53. *N. amabilis* (Girard)—Texas shiner (W1, N3, S4, 6)

54. *N. fumeus* Evermann—ribbon shiner (1, 2, 4)

55. *N. umbratilis* (Girard)—redfin shiner (1, E2, N4, NE5)

56. *N. brazosensis* Hubbs and Bonham—Brazos River shiner (W1, W2, 4, 5, NE6, NE7)

57. *N. cornutus* (Mitchill)—common shiner (N1)

58. *N. chalybeus* (Cope)—ironcolor shiner (E1)

59. *N. texanus* (Girard)—weed shiner (1, 2, N3, S4, E6)

60. *N. simus* (Cope)—bluntnose shiner (S6, S8)

61. *N. blennioides* (Girard)—river shiner (N1, N4, N5, N7)

62. *N. potteri* Hubbs and Bonham—chub shiner (W1, W2, 4, 5, E7)

63. *N. bairdi* Hubbs and Ortenburger—Red River shiner (N4, N5, N7)

64. *N. buccula* Cross—upper Brazos River shiner (S4, 5, 7)

65. *N. girardi* Hubbs and Ortenburger—Arkansas River shiner (N7)

66. *N. sabiniae* Jordan and Gilbert—longnose shiner (E1, E2)

67. *N. ortenburgeri* Hubbs—Kiamachi shiner (NE1)

68. *N. amnis* Hubbs and Greene—pallid shiner (1, 2, NE3, S4)

69. *N. chihuahuana* Woolman—Chihuahuana shiner (S8)

70. *N. braytoni* Jordan and Evermann—Tamaulipas shiner (S3, S6, S8)

71. *N. venustus* (Girard)—spottail shiner (blacktail) (1, 2, N3, 4, 5, 6, E7)

72. *N. lutrensis* (Baird and Girard)—redhorse shiner (red shiner) (1, 2, 3, 4, 5, 6, 7, 8)

73. *N. lepidus* (Girard)—Edward shiner (S6)

74. *N. proserpinus* (Girard)—proserpine shiner (S3, S6)

75. *N. stramineus* (Cope)—sand shiner (S4, 6)

76. *N. atrocaudalis* Evermann—blackspot shiner (1, E2, NE4)

77. *N. volucellus* (Cope)—mimic shiner (1, 2, N3, 4, 5, 6, E7)

78. *N. buchanani* Meek—ghost shiner (1, 2, 3, 4, 5, E6, E7)

79. *N. maculatus* (Hay)—taillight shiner (N1)

Genus: *Dionda* Girard

80. *D. episcopa* Girard—roundnose minnow (N3, S4, 6, 8)

81. *D. biaboli* Hubbs and Brown—Devil's River minnow (S6)

Genus: *Hybognathus* Agassiz

82. *H. nuchalis* Agassiz—silvery minnow (1, 4)

83. *H. placita* Girard—plains minnow (3, 5, edges of 6, 7, 8)

84. *H. hayi* Jordan—cypress minnow (N1)

Genus: *Pimephales* Rafinesque

85. *P. vigilax* (Baird and Girard)—parrot minnow (1, 2, 3, 4, 5, 6, 7)

86. *P. promelas* Rafinesque—fathead minnow (W1, W2, N3, 4, 5, E6, 7, S8)

Genus: *Campostoma* Agassiz

87. *C. anomalum* (Rafinesque)—stoneroller (steelback) (W + N1, N3, 4, 5, 6, E7)

88. *C. ornatum* Girard—Mexican stoneroller (S8)

Family: ARIIDAE—Sea catfishes

Genus: *Bagre* Oken

89. *B. marina* (Mitchill)—gafftopsail catfish (gafftop) (coastal)

Genus: *Galeichthys* Valenciennes

90. *G. felis* (Linnaeus)—sea catfish (hardhead) (coastal)

Family: AMEIURIDAE—Freshwater catfishes

Genus: *Ictalurus* Rafinesque

92. *I. punctatus* (Rafinesque)—channel catfish (1, 2, 3, 4, 5, 6, 7, 8)

92. *I. furcatus* (LeSueur)—blue catfish (channel catfish) (1, 2, 3, 4, N5, NE7, 8)

93. *I. melas* (Rafinesque)—black bullhead (1, 2, 3, 4, 5, E6, 7, rare 8)

94. *I. natalis* (LeSueur)—yellow bullhead (1, 2, 3, 4, 5, 6, E7)

Genus: *Trogloglanis* Eigenmann

95. *T. pattersoni* Eigenmann—toothless blindcat (SE6)

- Genus: *Pylodictus* Rafinesque  
 96. *P. olivaris* (Rafinesque)—flathead catfish (yellow catfish, opelousas catfish, mud catfish, goujon) (1, 2, 3, 4, 5, 6, 7, 8)
- Genus: *Satan* Hubbs and Bailey  
 97. *S. eurystomus* Hubbs and Bailey—widemouth blindcat (SE6)
- Genus: *Schilbeodes* Bleeker  
 98. *S. gyrinus* (Mitchill)—tadpole madtom (1, 2, E3, 4, 5, NE7)  
 99. *S. nocturnus* (Jordan and Gilbert)—freckled madtom (1, E2, N4, N5)
- Family: ANGUILLIDAE—Eels  
 Genus: *Anguilla* Shaw  
 100. *A. rostrata* (LeSueur)—American eel (1, 2, 3, 4, E5, E + S6, S8)
- Family: BELONIDAE—Needlefishes  
 Genus: *Strongylura* Van Hasselt  
 101. *S. marina* (Walbaum)—freshwater needlefish, (billfish, needlefish) (S1, 2, E3)
- Family: SYNGNATHIDAE—Pipefishes  
 Genus: *Syngnathus* Linnaeus  
 102. *S. scovelli* (Evermann and Kendall)—southern pipefish (coastal)
- Family: CYPRINODONTIDAE—Killifishes and topminnows  
 Genus: *Lucania* Girard  
 103. *L. parva* (Baird and Girard)—rainwater fish (2, E3, W6, E8)
- Genus: *Adinia* Girard  
 104. *A. xenica* (Jordan and Gilbert)—diamond killifish (coastal)
- Genus: *Fundulus* Lacépède  
 105. *F. similis* (Baird and Girard)—longnose killifish (coastal)  
 106. *F. grandis* Baird and Girard—gulf killifish (coastal)  
 107. *F. pulvereus* (Evermann)—bayou killifish (2)  
 108. *F. jenkinsi* (Evermann)—blackspot killifish (2)  
 109. *F. chrysotus* Holbrook—redspot topminnow (1, E2)  
 110. *F. notti* (Agassiz)—starhead topminnow (1, E2)  
 111. *F. notatus* (Rafinesque)—blackstripe topminnow (1, 2, N3, 4, 5, E6)  
 112. *F. olivaceus* (Storer)—blackspot topminnow (1)  
 113. *F. zebrinus* Jordan and Gilbert—Rio Grande killifish (zebra minnow) (W6, E8)  
 114. *F. kansae* Garman—plains killifish (W4, 5, E6, 7)
- Genus: *Cyprinodon* Lacépède  
 115. *C. variegatus* Lacépède—variegated cyprinodon (sea pupfish) (2, S3)  
 116. *C. rubrofluvialis* Fowler—Red River pupfish (NE7)  
 117. *C. bovinus* Baird and Girard—Leon Springs pupfish (E8—extinct)  
 118. *C. elegans* Baird and Girard—Comanche Springs pupfish (E8)

119. *C. sp.*—Pecos River pupfish (W6, E8)  
 120. *C. sp.*—Devil's River pupfish (S6)
- Family: POECILIIDAE—Mosquitofishes  
 Genus: *Gambusia* Poey  
 121. *G. nobilis* (Baird and Girard)—Pecos gambusia (E8)  
 122. *G. geiseri* Hubbs and Hubbs—fountain gambusia (6, E8)  
 123. *G. gaigei* Hubbs—Big Bend gambusia (S8)  
 124. *G. senilis* Girard—blotched gambusia (S6)  
 125. *G. heterochir* Hubbs—Clear Creek gambusia (N6)  
 126. *G. affinis* (Baird and Girard) mosquitofish (1, 2, 3, 4, 5, 6, 7, 8)
- Genus: *Mollienisia* LeSueur  
 127. *M. latipinna* LeSueur—sailfin molly (W1, 2, 3, S4, S + E6)  
 128. *M. formosa* (Girard)—Amazon molly (S3, E6)
- Family: APHREDODERIDAE—Pirate perch  
 Genus: *Aphredoderus* LeSueur  
 129. *A. sayanus* (Gilliams)—pirate perch (1, E2)
- Family: MUGILIDAE—Mulletts  
 Genus: *Mugil* Linnaeus  
 130. *M. cephalus* Linnaeus—striped mullet (1, 2, 3, 4, 5, NE6)  
 131. *M. curema* Valenciennes—white mullet (coastal)
- Family: ATHERINIDAE—Siversides  
 Genus: *Menidia* Bonaparte  
 132. *M. audens* Hay—Mississippi silverside (N1, N4, N5)  
 133. *M. beryllina* (Cope)—tidewater silverside (2, 3)
- Genus: *Membras* Bonaparte  
 134. *M. martinica* (Valenciennes)—rough silverside (coastal)
- Genus: *Labidesthes* Cope  
 135. *L. sicculus* (Cope)—brook silverside (1, E2, N4, N5)
- Family: POLYNEMIDAE—Threadfins  
 Genus: *Polydactylus* Lacépède  
 136. *P. octonemus* (Girard)—threadfin (coastal)
- Family: CENTROPOMIDAE—Snooks  
 Genus: *Centropomus* Lacépède  
 137. *C. undecimalis* (Bloch)—snook (coastal)
- Family: SERRANIDAE—Basses  
 Genus: *Roccus* Mitchell  
 138. *R. chrysops* (Rafinesque)—white bass (sand bass, stripe bass, barfish) (1, 2, 3, 4, 5, 6, 7)  
 139. *R. interruptus* (Gill)—yellow bass (1, E2)
- Family: CENTRARCHIDAE—Black basses and sunfishes  
 Genus: *Micropterus* Lacépède  
 140. *M. punctulatus* (Rafinesque)—spotted bass (Kentucky spotted bass, Kentucky jumper, trout, smallmouth bass) (1, 2, 4, 5, E6, E7)

141. *M. treculi* (Vaillant and Bocourt)—Texas spotted bass (smallmouth bass, river bass, trout) (W1, S4, S5, 6)
142. *M. salmoides* (Lacépède)—largemouth bass (green trout) (1, 2, 3, 4, 5, 6, 7, 8)
- Genus: *Chaenobryttus* Gill
143. *C. gulosus* (Cuvier)—warmouth (goggleeye, rock bass) (1, 2, 3, 4, 5, 6, 7, 8)
- Genus: *Lepomis* Rafinesque
144. *L. cyanellus* Rafinesque—green sunfish (branch perch, rock bass, goggleeye) (1, 2, 3, 4, 5, 6, 7, 8)
145. *L. symmetricus* Forbes—small sunfish (1, E2)
146. *L. punctatus* (Cuvier)—spotted sunfish (bream, Garman's sunfish) (1, 2, rare 3, 4, 5, 6, E7)
147. *L. microlophus* (Günther)—redeer sunfish (Georgia bream) (1, 2, 3, 4, 5, 6, 7, rare 8)
148. *L. macrochirus* Rafinesque—bluegill (bream) (1, 2, 3, 4, 5, 6, 7, 8)
149. *L. humilis* (Girard)—orangespotted sunfish (1, 4, 5, E6, 7)
150. *L. auritus* (Linnaeus)—yellowbelly sunfish (redbreast bream, longear bream) (W1, N3, S4, 6)
151. *L. megalotis* (Rafinesque)—longear sunfish (cherry bream) (1, 2, 3, 4, 5, 6, 7, 8)
152. *L. marginatus* (Holbrook)—dollar sunfish (1, E2)
- Genus: *Ambloplites* Rafinesque
153. *A. rupestris* (Rafinesque)—rock bass (goggle eye) (introduced 6)
- Genus: *Pomoxis* Rafinesque
154. *P. annularis* Rafinesque—white crappie (sac-a-lait, white perch) (1, 2, 3, 4, 5, 6, 7)
155. *P. nigromaculatus* (LeSueur)—black crappie (mason perch, calico bass, white perch) (1, 2, 4, 5, E6)
- Genus: *Centrarchus* Cuvier
156. *C. macropterus* (Lacépède)—flier (1, NE4)
- Genus: *Elassoma* Jordan
157. *E. zonatum* Jordan—banded pigmy sunfish (1, 2, NE4)
- Family: PERCIDAE—Perches and darters
- Genus: *Stizostedion* Rafinesque
158. *S. canadense* (Smith)—sauger (NE4, NW5)
- Genus: *Perca* Linnaeus
159. *P. flavescens* (Mitchill)—yellow perch (W8)
- Genus: *Hadropterus* Agassiz
160. *H. maculatus* (Girard)—blackside darter (N1)
161. *H. scierus* Swain—dusky darter (1, 2, 4, 5, E6)
162. *H. shumardi* Girard—river darter (1, W2, E3, S4)
- Genus: *Percina* Haldeman
163. *P. caprodes* (Rafinesque)—logperch (rare 1, rare 2, N3, S4, 5, 6, N + E7)
- Genus: *Ammocrypta* Jordan
164. *A. vivax* Hay—Arkansas sand darter (1, E2)
165. *A. clara* Jordan and Meek—western sand darter (1, E2)
- Genus: *Etheostoma* Rafinesque
166. *E. chlorosomum* (Hay)—bluntnose darter (1, 2, E3, 4)
167. *E. histrio* Jordan and Gilbert—snubnose darter (E1)
168. *E. gracile* (Girard)—slough darter (1, 2, 3, 4, N5)
169. *E. barratti* Holbrook—scalyhead darter (N1)
170. *E. asprigene* (Forbes)—mud darter (E1)
171. *E. parvipinne* Gilbert and Swain—goldstripe darter (1)
172. *E. radiosum* (Hubbs and Black)—orangebelly darter (1, NE5)
173. *E. spectabile* (Agassiz)—orangethroat darter (N1, N3, S4 5, 6, S7)
174. *E. lepidum* (Baird and Girard)—greenthroat darter (6)
175. *E. grahami* (Girard)—redspot darter (S6)
176. *E. proeliare* (Hay)—cypress darter (1)
177. *E. fonticola* (Jordan and Gilbert)—fountain darter (E6)
- Family: CARANGIDAE—Jackfishes
- Genus: *Caranx* Lacépède
178. *C. hippos* (Linnaeus)—common jack (coastal)
- Family: LIOGNATHIDAE
- Genus: *Eucinostomus* Baird and Girard
179. *E. argenteus* Baird and Girard (coastal)
- Family: SCIAENIDAE—Croakers, drum, and weakfishes
- Genus: *Aplodinotus* Rafinesque
180. *A. grunniens* Rafinesque—freshwater drum (1, 2, 3, 4, 5 6, E7, 8)
- Genus: *Bairdiella* Gill
181. *B. chrysura* (Lacépède)—silver perch (yellowtail) (coastal)
- Genus: *Sciaenops* Gill
182. *S. ocellata* (Linnaeus)—red drum (red fish) (coastal)
- Genus: *Leiostomus* Lacépède
183. *L. xanthurus* Lacépède—spot (flat croaker) (coastal)
- Genus: *Micropogon* Cuvier
184. *M. undulatus* (Linnaeus)—Atlantic croaker (croaker) (coastal)
- Genus: *Pogonias* Lacépède
185. *P. cromis* (Linnaeus)—black drum (coastal)
- Genus: *Cynoscion* Gill
186. *C. arenarius* Ginsburg—sand squeteague (sand trout) (coastal)
187. *C. nebulosus* (Cuvier)—spotted squeteague (speck, speckled trout) (coastal)
- Family: SPARIDAE
- Genus: *Lagodon* Holbrook
188. *L. rhomboides* (Linnaeus)—pinfish (coastal)

Genus: *Archosargus* Gill

189. *A. probatocephalus* (Walbaum)—sheepshead (sheepshead porgy) (coastal)

Family: CICHILIDAE—Cichlids

Genus: *Cichlasoma* Swainson

190. *C. cyanoguttatum* (Baird and Girard)—Rio grande cichlid (W1, W2, 3, S4, S5, 6)

Family: ELEOTRIDAE—Sleepers

Genus: *Dormitator* Gill

191. *D. maculatus* (Bloch)—fat sleeper (coastal)

Genus: *Eleotris* Schneider

192. *E. pisonis* (Gmelin)—spinycheek sleeper (coastal)

Genus: *Gobiomorus* Lacépède

193. *G. dormitator* Lacépède—sleeper (2, 3)

Family: GOBIIDAE—Gobys

Genus: *Evorthodus* Gill

194. *E. lyricus* (Girard)—lyre goby (coastal)

Genus: *Gobionellus* Girard

195. *G. shufeldti* (Jordan and Eigenmann)—freshwater goby (coastal)

196. *G. stigmaticus* (Poey)—spotted goby (coastal)

197. *G. boleosoma* (Jordan and Gilbert)—darting goby (coastal)

198. *G. oceanicus* (Pallas)—longtail goby (coastal)

199. *G. hastatus* Girard—sharptail goby (coastal)

Genus: *Microgobius* Poey

200. *M. gulosus* (Girard)—clown goby (coastal)

Genus: *Gobiosoma* Girard

201. *G. robustum* Ginsburg—robust goby (coastal)

202. *G. bosci* Lacépède—naked goby (coastal)

Genus: *Gobioides* Lacépède

203. *G. broussoneti* Lacépède—violet goby (coastal)

Family: BOTHIDAE—Flatfishes and flounders

Genus: *Citharichthys* Bleeker

204. *C. spilopterus* Günther—sand dab (coastal)

Genus: *Etropus* Jordan and Gilbert

205. *E. crossotus* Jordan and Gilbert—fringed flounder (coastal)

Family: PLEURONECTIDAE—Flounders

Genus: *Paralichthys* Girard

206. *P. lethostigma* Jordan and Gilbert—southern flounder (coastal)

Family: ACHIRIDAE—Soles

Genus: *Trinectes* Rafinesque

207. *T. maculatus* (Bloch)—hogchoker (coastal)

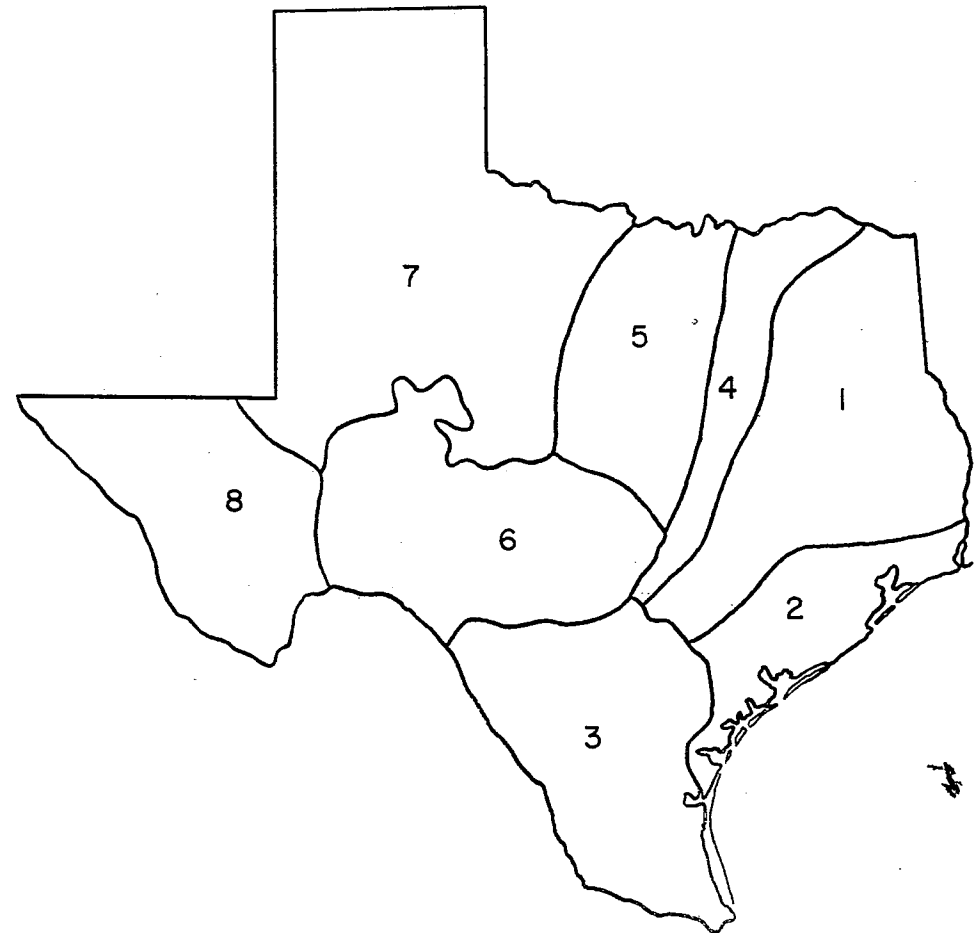
Genus: *Achirus* Lacépède

208. *A. lineatus* (Linnaeus)—lined sole (coastal)

Family: TETRAODONTIDAE—Puffers

Genus: *Sphoeroides* Lacépède

209. *S. marmoratus* (Ranzani)—swellfish or rabbit fish (coastal)



Map 1. Outline of game areas in Texas. Modified from the game regions map in Anonymous (1945). Area 1 equals the East Texas timber country plus the separated southeastern segment of the blackland prairie. Area 2 equals the coastal prairie. Area 3 equals the South Texas brushlands. Area 4 equals the main part of the blackland prairie. Area 5 equals the east and west cross timbers as well as the grand prairie. Area 6 equals the Edwards Plateau. Area 7 equals the plains. Area 8 equals the Trans-Pecos region.

## BIBLIOGRAPHY

### Anonymous

- 1945 Principal game birds and mammals of Texas. Texas Game, Fish and Oyster Comm., pp. 1-149.

### Gunter, Gordon

- 1945 Studies on marine fishes of Texas. Publ. Inst. Marine Sci., Vol. 1, No. 1, The University of Texas, Austin, Texas, pp. 1-109.

### Hubbs, Clark

- 1957a A checklist of Texas fresh-water fishes. Texas Game and Fish Comm., Div. of Inland Fisheries, IF Ser., No. 3, pp. 1-11.

- 
- 1957b *Gambusia heterochir*, a new poeciliid fish from Texas, with an account of its hybridization with *G. affinis*. Tulane Stud. Zool., Vol. 5, No. 1, pp. 1-16.

- 
- 1957c Distributional patterns of Texas fresh-water fishes. Southwestern Nat., Vol. 2, pp. 89-104.

- 
- 1958 *Gambusia senilis* from the Devil's River, Texas, an addition to the fish fauna of the United States. Copeia, 1958, p. 239.

### Hubbs, Clark, and Victor G. Springer

- 1957 A revision of the *Gambusia nobilis* species group, with descriptions of three new species, and notes on their variation, ecology, and evolution. Texas Jour. Science, Vol. 9, pp. 279-327.

### Suttkus, Royal

- 1958 Status of the nominal cyprinid species *Moniana deliciosa* Girard and *Cyprinella texana* Girard. Copeia, 1958, No. 4.