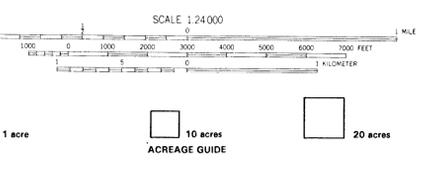
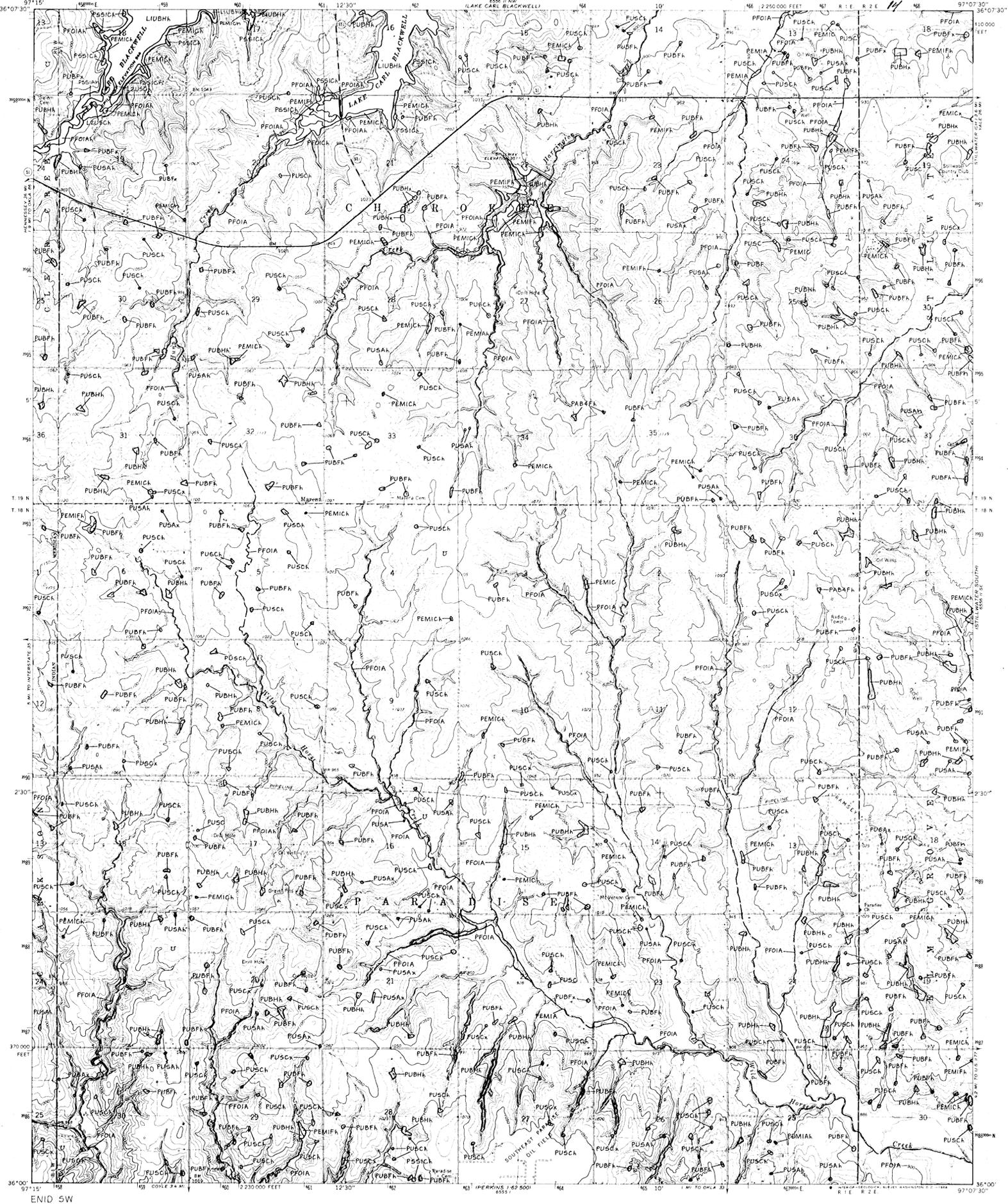


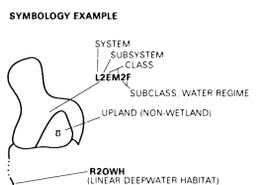
# NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

3697-112  
STILLWATER SW, OKLA.



**SPECIAL NOTE**  
This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology, and topography in accordance with Classification of Wetlands and Deepwater Habitats of the United States (FWS/OBS - 79/31 December 1979). The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.



**NOTES TO THE USER**  
• Wetlands which have been field examined are indicated on the map by an asterisk (\*).  
• Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.  
• Subsystems, Classes, Subclasses, and Water Regimes in italics were developed specifically for NATIONAL WETLANDS INVENTORY mapping.  
• Some areas designated as R4SB, R4SW, OR R4SU (INTERMITTENT STREAMS) may not meet the definition of wetland.  
• This map uses the class Unconsolidated Shore (US). On earlier NWI maps that class was designated Beach/Bar (BB), or Flat (F1). Subclasses remain the same in both versions.

Other information including a narrative report concerning the wetland resources depicted on this document may be available. For information, contact:  
**Regional Director (ARDE) Region II**  
**U.S. Fish and Wildlife Service**  
**P.O. Box 1306**  
**Albuquerque, New Mexico 87103**

Federal, State and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, State or local government, or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

**AERIAL PHOTOGRAPHY**  
DATE 9/81 DATE \_\_\_\_\_  
SCALE 1:58000 SCALE \_\_\_\_\_  
TYPE CIR TYPE \_\_\_\_\_



**U.S. DEPARTMENT OF THE INTERIOR**  
**FISH AND WILDLIFE SERVICE**  
Prepared by National Wetlands Inventory  
**1987**

3697-112

SYSTEM	1 - TIDAL	2 - LOWER PERENNIAL	3 - UPPER PERENNIAL	4 - INTERMITTENT	5 - UNKNOWN PERENNIAL	1 - LIMNETIC	2 - LITTORAL	SYSTEM
CLASS	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM	SB - STREAMBED AB - AQUATIC BED	RS - ROCKY SHORE AS - AQUATIC BED	US - UNCONSOLIDATED SHORE EM - EMERGENT	US - UNCONSOLIDATED SHORE EM - EMERGENT	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM	CLASS
Subclass	1 Bark 2 Sand 3 Mud 4 Organic	1 Cobble Gravel 2 Sand 3 Mud 4 Organic	1 Bark 2 Sand 3 Mud 4 Organic	1 Cobble Gravel 2 Sand 3 Mud 4 Organic	1 Cobble Gravel 2 Sand 3 Mud 4 Organic	1 Bark 2 Sand 3 Mud 4 Organic	1 Cobble Gravel 2 Sand 3 Mud 4 Organic	Subclass

SYSTEM	1 - TIDAL	2 - LOWER PERENNIAL	3 - UPPER PERENNIAL	4 - INTERMITTENT	5 - UNKNOWN PERENNIAL	1 - LIMNETIC	2 - LITTORAL	SYSTEM
CLASS	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM	SB - STREAMBED AB - AQUATIC BED	RS - ROCKY SHORE AS - AQUATIC BED	US - UNCONSOLIDATED SHORE EM - EMERGENT	US - UNCONSOLIDATED SHORE EM - EMERGENT	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM	CLASS
Subclass	1 Bark 2 Sand 3 Mud 4 Organic	1 Cobble Gravel 2 Sand 3 Mud 4 Organic	1 Bark 2 Sand 3 Mud 4 Organic	1 Cobble Gravel 2 Sand 3 Mud 4 Organic	1 Cobble Gravel 2 Sand 3 Mud 4 Organic	1 Bark 2 Sand 3 Mud 4 Organic	1 Cobble Gravel 2 Sand 3 Mud 4 Organic	Subclass

WATER REGIME		WATER CHEMISTRY		SOIL		SPECIAL MODIFIERS		
Non-Tidal	Tidal	Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water				
A. Temporarily Flooded B. Seasonally Flooded C. Regularly Flooded D. Intermittently Flooded E. Intermittently Exposed F. Intermittently Exposed G. Intermittently Exposed H. Intermittently Exposed I. Intermittently Exposed J. Intermittently Exposed K. Artificially Flooded L. Artificially Flooded M. Artificially Flooded N. Artificially Flooded O. Artificially Flooded P. Artificially Flooded Q. Artificially Flooded R. Artificially Flooded S. Artificially Flooded T. Artificially Flooded U. Artificially Flooded V. Artificially Flooded W. Artificially Flooded X. Artificially Flooded Y. Artificially Flooded Z. Artificially Flooded	1. Temporarily Tidal 2. Seasonally Tidal 3. Regularly Tidal 4. Intermittently Tidal 5. Intermittently Tidal 6. Intermittently Tidal 7. Intermittently Tidal 8. Intermittently Tidal 9. Intermittently Tidal 10. Intermittently Tidal 11. Intermittently Tidal 12. Intermittently Tidal 13. Intermittently Tidal 14. Intermittently Tidal 15. Intermittently Tidal 16. Intermittently Tidal 17. Intermittently Tidal 18. Intermittently Tidal 19. Intermittently Tidal 20. Intermittently Tidal 21. Intermittently Tidal 22. Intermittently Tidal 23. Intermittently Tidal 24. Intermittently Tidal 25. Intermittently Tidal 26. Intermittently Tidal 27. Intermittently Tidal 28. Intermittently Tidal 29. Intermittently Tidal 30. Intermittently Tidal 31. Intermittently Tidal 32. Intermittently Tidal 33. Intermittently Tidal 34. Intermittently Tidal 35. Intermittently Tidal 36. Intermittently Tidal 37. Intermittently Tidal 38. Intermittently Tidal 39. Intermittently Tidal 40. Intermittently Tidal 41. Intermittently Tidal 42. Intermittently Tidal 43. Intermittently Tidal 44. Intermittently Tidal 45. Intermittently Tidal 46. Intermittently Tidal 47. Intermittently Tidal 48. Intermittently Tidal 49. Intermittently Tidal 50. Intermittently Tidal	1. Hypersaline 2. Euxaline 3. Mesohaline 4. Oligohaline 5. Fresh	1. Hypersaline 2. Euxaline 3. Mesohaline 4. Oligohaline 5. Fresh	1. Organic 2. M-Fresh 3. M-Saline 4. M-Subsaturated 5. M-Saturated 6. M-Subsaturated 7. M-Saturated 8. M-Subsaturated 9. M-Saturated 10. M-Subsaturated 11. M-Saturated 12. M-Subsaturated 13. M-Saturated 14. M-Subsaturated 15. M-Saturated 16. M-Subsaturated 17. M-Saturated 18. M-Subsaturated 19. M-Saturated 20. M-Subsaturated 21. M-Saturated 22. M-Subsaturated 23. M-Saturated 24. M-Subsaturated 25. M-Saturated 26. M-Subsaturated 27. M-Saturated 28. M-Subsaturated 29. M-Saturated 30. M-Subsaturated 31. M-Saturated 32. M-Subsaturated 33. M-Saturated 34. M-Subsaturated 35. M-Saturated 36. M-Subsaturated 37. M-Saturated 38. M-Subsaturated 39. M-Saturated 40. M-Subsaturated 41. M-Saturated 42. M-Subsaturated 43. M-Saturated 44. M-Subsaturated 45. M-Saturated 46. M-Subsaturated 47. M-Saturated 48. M-Subsaturated 49. M-Saturated 50. M-Subsaturated	1. Dred/Impounded 2. Artificially Substrate 3. Exposed 4. Exposed			