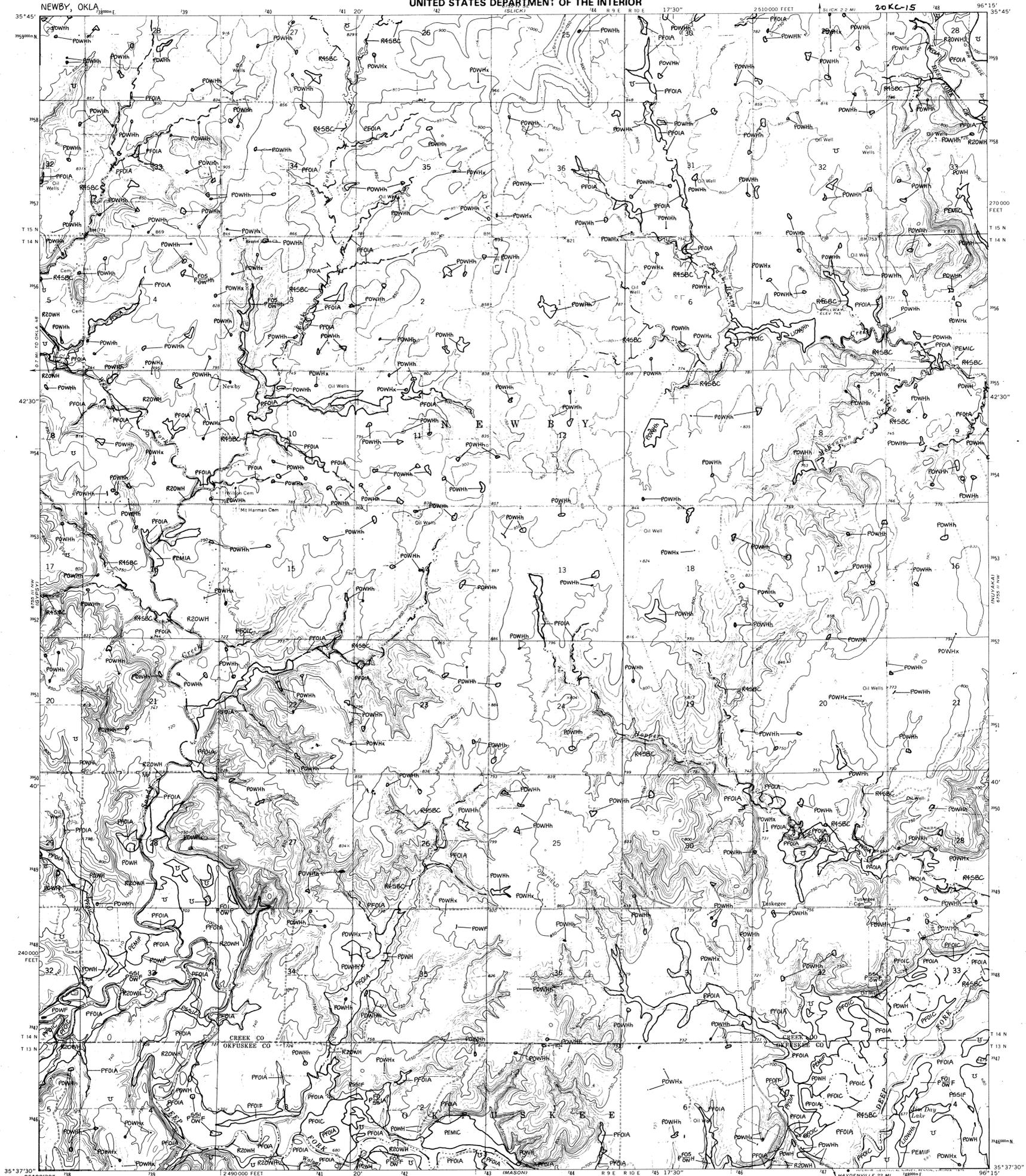
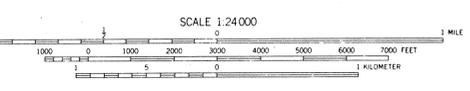


NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR



NEWBY, OKLA. 3596-424

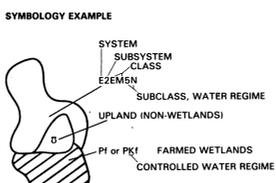


Other information concerning the wetland resources depicted on this document may be available. For information, contact:

Regional Director (ARDE) Region II
U.S. Fish and Wildlife Service
P.O. Box 1306
Albuquerque, New Mexico 87103

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 geography in accordance with Classification of Wetlands and Deep-Water Habitats of the United States (an Operational Draft). Cowardin, et al., 1977. 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.

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.



NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (*).
- Dominance type (either vegetative or sedimentary animal) can be added to the map by the interested user.
- Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.
- Some areas designated R45B, R45BW, or R45BJ (intermittent streams) may not meet the definition of wetlands.

AERIAL PHOTOGRAPHY

DATE: 3/13/80
SCALE: 1:58,000
TYPE: CIR
DATE: _____
SCALE: _____
TYPE: _____



U.S. DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
Prepared by Office of Biological Services
for the National Wetlands Inventory

WETLAND LEGEND

U - Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non-photo-identifiable areas and/or unintentional omissions.

ECOLOGICAL SYSTEM	E - ESTUARINE	M - MARINE	ECOLOGICAL SYSTEM											
<p>1 - Subtidal</p> <p>CLASS: RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED, RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED, RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED</p>	<p>2 - Intertidal</p> <p>CLASS: RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED, RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED</p>	<p>1 - Subtidal</p> <p>CLASS: RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED, RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED</p>	<p>2 - Intertidal</p> <p>CLASS: RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED, RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED</p>											
<p>P - PALUSTRINE</p> <p>CLASS: RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED, RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED</p>	<p>1 - Littoral</p> <p>CLASS: RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED, RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED</p>	<p>2 - Littoral</p> <p>CLASS: RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED, RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED</p>	<p>ECOLOGICAL SYSTEM</p>											
<p>R - RIVERINE</p> <p>CLASS: RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED, RB - ROCK, UB - UNCONSOLIDATED BOTTOM, AB - AQUATIC BED, OW - OPEN WATER/UNKNOWN BOTTOM, FL - FLAT, SS - STREAMBED, EM - EMERGENT, SS - SCRUBSHUB, FO - FORESTED</p>	<p>MODIFYING TERMS</p> <p>In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.</p> <table border="1"> <thead> <tr> <th>WATER REGIME(1)</th> <th>WATER CHEMISTRY</th> <th>SOIL</th> <th>SPECIAL MODIFIERS</th> </tr> </thead> <tbody> <tr> <td> <p>Non-Tidal</p> <p>1 Temporary, 2 Seasonal, 3 Intermittent, 4 Seasonal Wet-dried, 5 Seasonal Seasonal, 6 Intermittently Exposed, 7 Intermittently Flooded/Seasonal, 8 Intermittently Flooded/Seasonal</p> </td> <td> <p>Tidal</p> <p>1 Annual, 2 Intermittently Flooded, 3 Intermittently Exposed, 4 Intermittently Exposed/Permanent, 5 Intermittently Flooded/Seasonal, 6 Regular, 7 Permanent Tidal, 8 Unknown</p> </td> <td> <p>Coastal Salinity</p> <p>1 Euryhaline, 2 Mesohaline (brackish), 3 Polyhaline, 4 Mesohaline, 5 Fresh</p> </td> <td> <p>pH Modifiers for All Fresh Water</p> <p>1 Acid, 2 Alkaline, 3 Alkaline</p> </td> </tr> <tr> <td> <p>Soil</p> <p>1 Organic, 2 Primarily Organic/Clayey, 3 Primarily Organic/Clayey, 4 Primarily Organic/Clayey, 5 Primarily Organic/Clayey, 6 Primarily Organic/Clayey, 7 Primarily Organic/Clayey, 8 Primarily Organic/Clayey</p> </td> <td> <p>SPECIAL MODIFIERS</p> <p>1 Disturbed, 2 Disturbed, 3 Disturbed, 4 Disturbed, 5 Disturbed, 6 Disturbed, 7 Disturbed, 8 Disturbed</p> </td> <td colspan="2"></td> </tr> </tbody> </table>		WATER REGIME(1)	WATER CHEMISTRY	SOIL	SPECIAL MODIFIERS	<p>Non-Tidal</p> <p>1 Temporary, 2 Seasonal, 3 Intermittent, 4 Seasonal Wet-dried, 5 Seasonal Seasonal, 6 Intermittently Exposed, 7 Intermittently Flooded/Seasonal, 8 Intermittently Flooded/Seasonal</p>	<p>Tidal</p> <p>1 Annual, 2 Intermittently Flooded, 3 Intermittently Exposed, 4 Intermittently Exposed/Permanent, 5 Intermittently Flooded/Seasonal, 6 Regular, 7 Permanent Tidal, 8 Unknown</p>	<p>Coastal Salinity</p> <p>1 Euryhaline, 2 Mesohaline (brackish), 3 Polyhaline, 4 Mesohaline, 5 Fresh</p>	<p>pH Modifiers for All Fresh Water</p> <p>1 Acid, 2 Alkaline, 3 Alkaline</p>	<p>Soil</p> <p>1 Organic, 2 Primarily Organic/Clayey, 3 Primarily Organic/Clayey, 4 Primarily Organic/Clayey, 5 Primarily Organic/Clayey, 6 Primarily Organic/Clayey, 7 Primarily Organic/Clayey, 8 Primarily Organic/Clayey</p>	<p>SPECIAL MODIFIERS</p> <p>1 Disturbed, 2 Disturbed, 3 Disturbed, 4 Disturbed, 5 Disturbed, 6 Disturbed, 7 Disturbed, 8 Disturbed</p>		
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