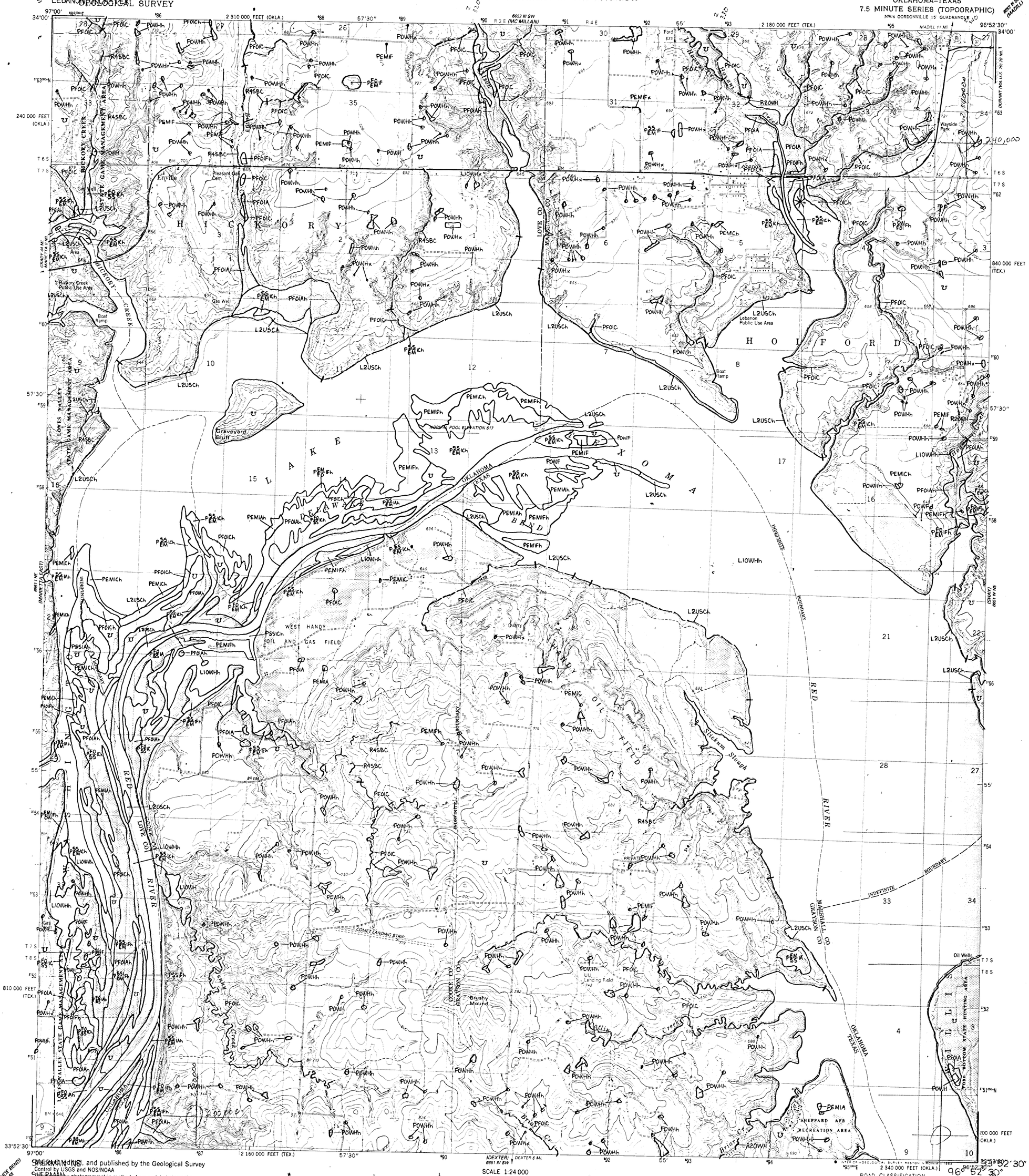
3396-333

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LEBANON QUADRANGLE
OKLAHOMA–TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 GORDONVILLE 15 QUADRANGLE



PRODUCED by the National Wetlands Inventory
Control by USGS and NOS/NOAA
TOPOGRAPHY by photogrammetric methods from aerial photographs taken 1976. Field checked 1979. Map edited 1982
Projection: Texas coordinate system, north central zone (Lambert conformal conic)
10,000-foot grid ticks based on Texas coordinate system, north central zone and Oklahoma coordinate system, south zone
1000-meter Universal Transverse Mercator grid, zone 14
1927 North American Datum
To place on the predicted North American Datum 1988 move the projection lines 7 meters south and 27 meters east as shown by dashed corner ticks
There may be private inholdings within the boundaries of the National or State reservations shown on this map
Areas covered by dashed light-blue pattern are subject to controlled inundation
Fine red dashed lines indicate selected fence and field lines where generally visible on the aerial photographs this information is unchecked

SCALE 1:24 000

1 0 1 MILE
1000 0 1000 4000 0 4000 8000 FEET
1 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
DASHED LINES REPRESENT 5 FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

1:09 20 MILS — 7° — 124 MILS — 1 MILE
GN — MN
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 0 1 2 3 4 5 6 7 KILOMETERS
UTM GRID AND 1982 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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

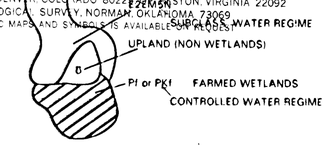
1:100 000 NAME: SHERMAN NE / SHERMAN
TOPO NAME: LEBANON, OKLA-TEX

TECHNICAL RESPONSIBILITY			
TASK	NAME		DATE
REGIONAL PIQC			
NATIONAL PIQC			
ZTS	E. DEAN	Z	5-18-84
	E. DEAN	L	5-21-84
ZTS QC	S. Schaupaard		6-25-84
MAP PIQC	L. ASHBY		7-9-84
ZTS CORRECTION	C. GLEASON		7/84
CORRECTION CHECK	R. WHITEHEAD		7-11-84
F.W.S. ACCEPT	G. MARTIN		8-27-84

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 a specific year and season when they were taken. In addition, there is a margin of error inherent in the use of 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 sedentary 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.

3396-333

AERIAL PHOTOGRAPHY

DATE:	3/ /82
SCALE:	1:65 000
TYPE:	CIR
DATE:	/ /
SCALE:	
TYPE:	
DATE:	/ /
SCALE:	
TYPE:	

ROAD CLASSIFICATION

Primary highway, hard surface	Light-duty road, hard or improved surface
Secondary highway, hard surface	Unimproved road
Interstate Route	U.S. Route / State Route

LEBANON, OKLA-TEX.
NW/4 GORDONVILLE 15 QUADRANGLE
N3352.5—W9652.5/7.5
1949 PHOTOREVISED 1982 DMA
DMA 6651 IV NW—SERIES V883

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.

E – ESTUARINE

1 – Subtidal: RB Rock Bottom (1 Bedrock, 2 Boulder); UB Unconsolidated Bottom (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic); AB Aquatic Bed (1 Submergent Algal, 2 Submergent Vascular, 3 Floating-leaved, 4 Floating, 5 Unknown Submergent, 7 Unknown Surface); RF Reef (2 Mollusk, 3 Worm); OW Open Water Unknown Bottom

2 – Intertidal: AB Aquatic Bed (1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent, 7 Unknown Surface); RF Reef (2 Mollusk, 3 Worm); FL Flat (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer); SB Streambed (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic); RS Rocky Shore (1 Bedrock, 2 Boulder, 6 Vegetated Non pioneer); BB Beach Bar (1 Cobble/Gravel, 2 Sand); EM Emergent (1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent); SS Scrub/Shrub (4 Broad leaved Deciduous, 5 Broad leaved Evergreen, 6 Needle leaved Evergreen, 8 Dead, 9 Deciduous, 7 Evergreen); FO Forested (1 Broad leaved Deciduous, 2 Broad leaved Evergreen, 4 Needle leaved Evergreen, 6 Dead, 8 Deciduous, 9 Evergreen)

M – MARINE

1 – Subtidal: RB Rock Bottom (2 Boulder); UB Unconsolidated Bottom (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic); AB Aquatic Bed (1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent); RF Reef (1 Coral, 3 Worm); OW Open Water Unknown Bottom

2 – Intertidal: AB Aquatic Bed (1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent); RF Reef (1 Coral, 3 Worm); FL Flat (1 Cobble/Gravel, 2 Sand, 3 Mud, 6 Vegetated Non pioneer); RS Rocky Shore (1 Bedrock, 2 Boulder, 6 Vegetated Non pioneer); BB Beach Bar (1 Cobble/Gravel, 2 Sand)

P – PALUSTRINE

No Subsystem: RB Rock Bottom (1 Bedrock, 2 Boulder); UB Unconsolidated Bottom (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic); AB Aquatic Bed (1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating-leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface); FL Flat (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer); ML Moss Lichen (1 Moss, 2 Lichen); EM Emergent (1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent); SS Scrub/Shrub (1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen); FO Forested (1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen); OW Open Water Unknown Bottom

L – LACUSTRINE

1 – Limnetic: RB Rock Bottom (2 Boulder); UB Unconsolidated Bottom (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic); AB Aquatic Bed (1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating-leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface); OW Open Water Unknown Bottom

2 – Littoral: RB Rock Bottom (1 Bedrock, 2 Boulder); UB Unconsolidated Bottom (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic); AB Aquatic Bed (1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating-leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface); FL Flat (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer); RS Rocky Shore (1 Bedrock, 2 Boulder); BB Beach Bar (1 Cobble/Gravel, 2 Sand); EM Emergent (4 Nonpersistent, 5 Narrow leaved Nonpersistent, 6 Broad leaved Nonpersistent); OW Open Water Unknown Bottom

R – RIVERINE

1 – Tidal: RB Rock Bottom (1 Bedrock, 2 Boulder); UB Unconsolidated Bottom (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic); AB Aquatic Bed (1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating-leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface); FL Flat (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer); EM Emergent (1, 2); OW Open Water Unknown Bottom

2 – Lower Perennial: RB Rock Bottom (1 Bedrock, 2 Boulder); UB Unconsolidated Bottom (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic); AB Aquatic Bed (1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating-leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface); FL Flat (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer); EM Emergent (1, 2); OW Open Water Unknown Bottom

3 – Upper Perennial: FL Flat (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer); EM Emergent (1, 2); OW Open Water Unknown Bottom

4 – Intermittent: SB Streambed (1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic); RS Rocky Shore (1 Bedrock, 2 Boulder); BB Beach Bar (1 Cobble/Gravel, 2 Sand); EM Emergent (1, 2); OW Open Water Unknown Bottom

5 – Unknown Perennial: EM Emergent (1, 2); OW Open Water Unknown Bottom

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

MODIFYING TERMS

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.

WATER REGIME(1)

Non Tidal: A Temporary; B Saturated; C Seasonal; D Seasonal Well drained; E Seasonal Saturated; F Semipermanent; G Intermittently Exposed; H Permanent; J Intermittently Flooded; K Artificial; Z Intermittently Exposed Permanent; V Intermittently Flooded Temporary; Y Saturated Semipermanent Seasonally; U Unknown

Tidal: K Artificial; L Subtidal; M Irregularly Exposed; N Regular; P Irregular; R Seasonal Tidal; S Temporary Tidal; T Semipermanent Tidal; V Permanent Tidal; U Unknown

WATER CHEMISTRY

Coastal Salinity: 1 Hypersaline; 2 Euhaline; 3 Mixohaline (Brackish); 4 Polyhaline; 5 Mesohaline; 6 Oligohaline; 0 Fresh

Inland Salinity: 7 Hypersaline; 8 Eusaline; 9 Mixosaline; 0 Fresh

pH Modifiers for all Fresh Water: e Acid; t Circumneutral; i Alkaline

SOIL: g Organic; h Mineral

SPECIAL MODIFIERS: b Beaver; d Partially Drained/Ditched; f Farmed; h Diked/Impounded; r Artificial; s Spoil; x Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.