NUMBER
DRAWING NUMBER
DRAWING NUMBER 3494-214
DRAWING
I • IRVINE, CALIFORNIA
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
POSITION EDGE OF PRINT ON THIS LINE
AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

BROKEN BOW NE, OKLA.

NE/4 BROKEN BOW 15' QUADRANGLE

MC ALESTER SE
DEQUEEN

TABLERVILLE OKLA

SCALE 1:24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

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

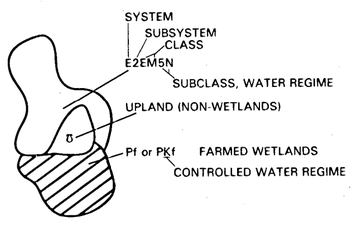
Regional Director (ARDE) Region II
U.S. Fish and Wildlife Service
P.O. Box 1306
Albuquerque, New Mexico 87103

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.

SYMBOLOGY EXAMPLE



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.
- Some areas designated R4SB, R4SBW, or R4SBJ (intermittent streams) may not meet the definition of wetlands.

AERIAL PHOTOGRAPHY

DATE: 3/ /80
SCALE: 1:58 000
TYPE: CIR
DATE: / /
SCALE:
TYPE:
DATE: / /
SCALE:
TYPE:

U.S. DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE

Prepared by Office of Biological Services for the National Wetlands Inventory

Chief, Mid-Continent Mapping Center
U.S. Geological Survey, MS 408
1400 Independence Road
Rolla, Missouri 65401
Signature
Title
Address

WETLAND LEGEND

0 — 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

Ecological Subsystem	1 — Subtidal					2 — Intertidal								
CLASS	RB — ROCK BOTTOM	UB — UNCONSOLIDATED BOTTOM	AB — AQUATIC BED	RF — REEF	OW — OPEN WATER/ Unknown Bottom	AB — AQUATIC BED	RF — REEF	FL — FLAT	SB — STREAMBED	RS — ROCKY SHORE	BB — BEACH/BAR	EM — EMERGENT	SS — SCRUB/SHRUB	FO — FORESTED
Subclass	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 4 Floating-leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	2 Mollusc 3 Worm		1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent 7 Unknown Surface	2 Mollusc 3 Worm	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non-pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder 6 Vegetated Non-pioneer	1 Cobble/Gravel 2 Sand	1 Persistent 2 Nonpersistent 3 Narrow-leaved Nonpersistent 4 Broad-leaved Nonpersistent 5 Narrow-leaved Persistent 6 Broad-leaved Persistent	1 Broad-leaved Deciduous 3 Broad-leaved Evergreen 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-leaved Deciduous 3 Broad-leaved Evergreen 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen

ECOLOGICAL SYSTEM: M — MARINE

Ecological Subsystem	1 — Subtidal					2 — Intertidal						
CLASS	RB — ROCK BOTTOM	UB — UNCONSOLIDATED BOTTOM	AB — AQUATIC BED	RF — REEF	OW — OPEN WATER/ Unknown Bottom	AB — AQUATIC BED	RF — REEF	FL — FLAT	RS — ROCKY SHORE	BB — BEACH/BAR		
Subclass	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent	1 Coral 3 Worm		1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent	1 Coral 3 Worm	1 Cobble/Gravel 2 Sand 3 Mud 6 Vegetated Non-pioneer	1 Bedrock 2 Boulder 6 Vegetated Non-pioneer	1 Cobble/Gravel 2 Sand		

ECOLOGICAL SYSTEM: P — PALUSTRINE

No Subsystem									
CLASS	RB — ROCK BOTTOM	UB — UNCONSOLIDATED BOTTOM	AB — AQUATIC BED	FL — FLAT	ML — MOSS/ LICHEN	EM — EMERGENT	SS — SCRUB/SHRUB	FO — FORESTED	OW — OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating-leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non-pioneer	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent 3 Narrow-leaved Nonpersistent 4 Broad-leaved Nonpersistent 5 Narrow-leaved Persistent 6 Broad-leaved Persistent	1 Broad-leaved Deciduous 2 Needle-leaved Deciduous 3 Broad-leaved Evergreen 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-leaved Deciduous 2 Needle-leaved Deciduous 3 Broad-leaved Evergreen 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	

ECOLOGICAL SYSTEM: L — LACUSTRINE

Ecological Subsystem	1 — Limnetic				2 — Littoral						
CLASS	RB — ROCK BOTTOM	UB — UNCONSOLIDATED BOTTOM	AB — AQUATIC BED	OW — OPEN WATER/ Unknown Bottom	RB — ROCK BOTTOM	UB — UNCONSOLIDATED BOTTOM	AB — AQUATIC BED	FL — FLAT	RS — ROCKY SHORE	BB — BEACH/BAR	EM — EMERGENT	OW — OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 3 Submergent Vascular 5 Submergent Moss 6 Floating-leaved 7 Floating 8 Unknown Submergent 9 Unknown Surface		1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating-leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non-pioneer	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand	2 Nonpersistent 3 Narrow-leaved Nonpersistent 4 Broad-leaved Nonpersistent	

ECOLOGICAL SYSTEM: R — RIVERINE

Ecological Subsystem	1 — Tidal	2 — Lower Perennial			3 — Upper Perennial			4 — Intermittent		5 — Unknown Perennial	
CLASS	EM — EMERGENT(1)	RB — ROCK BOTTOM	UB — UNCONSOLIDATED BOTTOM	AB — AQUATIC BED	FL — FLAT	SB — STREAMBED	RS — ROCKY SHORE	BB — BEACH/BAR	OW — OPEN WATER/ Unknown Bottom		
Subclass	2 Nonpersistent 3 Narrow-leaved Nonpersistent 4 Broad-leaved Nonpersistent	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating-leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non-pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand			

(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		Tidal	
A Temporary	H Permanent	K Artificial	R Seasonal Tidal
B Saturated	J Intermittently Flooded	L Subtidal	S Temporary Tidal
C Seasonal	K Artificial	M Irregularly Exposed	T Semipermanent Tidal
D Seasonal Well drained	Z Intermittently Exposed/Permanent	N Regular	V Permanent Tidal
E Seasonal Saturated	W Intermittently Flooded/Temporary	P Irregular	U Unknown
F Semipermanent	Y Saturated/Semipermanent/Seasonals		
G Intermittently Exposed	U Unknown		

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline	7 Hypersaline	e Acid
2 Euhaline	8 Eusaline	t Circumneutral
3 Mixohaline (Brackish)	9 Mixosaline	i Alkaline
4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

g	Organic
n	Mineral

SPECIAL MODIFIERS

b	Beaver	h	Diked/Impounded
d	Partially Drained/Ditched	r	Artificial
f	Farmed	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.

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