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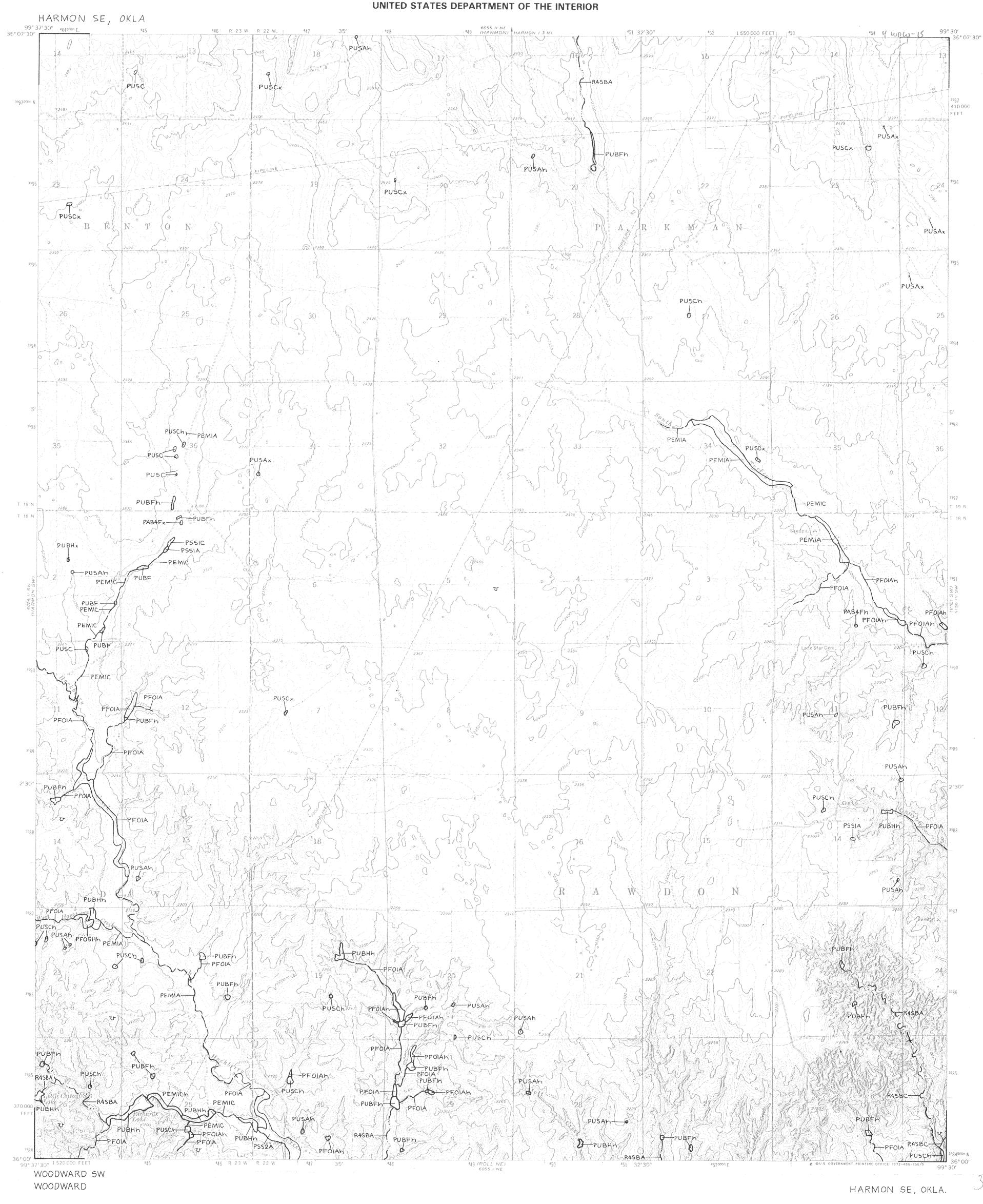
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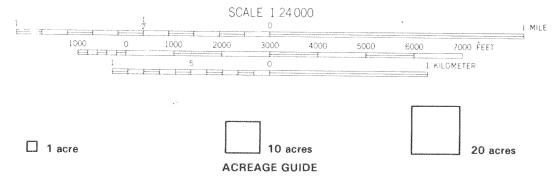
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NATIONAL WETLANDS INVENTORY





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

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 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.

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 SYSTEM SUBSYSTEM CLASS L2EM2F SUBCLASS, WATER REGIME UPLAND (NON-WETLAND)

-**R20WH** (LINEAR DEEPWATER HABITAT)

AERIAL PHOTOGRAPHY Primarily represents upland areas, but may include SCALE: 1:58 000 SCALE: ___ unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

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

 Subsystems, Classes, Subclasses, and Water negmes in *Italics* were developed specifically for NATIONAL WETLANDS INVENTORY mapping.
 Some areas designated as R4SB, R4SBW, OR R4SBJ (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 (FL). Subclasses remain the same in both versions.



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

1987

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SYSTEM	M MARINE											E — ESTUARINE											SYSTEM		
SUBSYSTEM		1 - S	UBTIDAL	TIDAL			2 - INT	ERTIDAL				I — SUBTID	JUBTIDAL			2 — INTERT			TERTIDAL	RTIDAL			SUBSYSTER		
CLASS	RB — ROCK BOTTOM	UB UNCONSOLIDATE	ED AB - AQUATIO	BED RF - REEF	OW — OPEN WATER/ Unknown Bottom	AB — AQUATIC BED	RF REE	F RS — ROCKY SHO	DRE US — UNCONSOLIDAT	TED RB — ROCK BOTTON	UB — UNCONSO		AQUATIC BED		N — OPEN WATER/ Unknown Bottom	AB — AQUATIC BED	RF — REEF	SB — STREAMBI	RS — ROCKY SHORE	US UNCONSO SHORE	LIDATED EM – EMERGEN	NT SS — SCRUB-SHRUB	FO — FORESTED	CLASS	
Subclass		1 Cobble-Gravef 2 Sand 3 Mud 4 Organic	1 Algal 3 Rooted Vascu 5 <i>Unknown</i> Submergent	1 Coral lar 3 Worm		1 Algal 3 Rooted Vascular 5 <i>Unknown Submerge</i>	1 Coral 3 Worm	1 Bedrock 2 Rubble	1 Cobble Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Rubb'e	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	3 Roote 4 Float 5 Unkn		2 Mollusc 3 Worm		1 Algal 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface		1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Persistent 2 Nonpersistent	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	Subclass	
SYSTEM		R — RIVERINE														L - LACUSTRIN	E						, Evalgració	SYSTEM	
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CLASS	8B ROCK	UB — UNCONSOLI BOTTOM		STREAMBED	AB — AQUATIC BED	RS — ROCKY SHORE	US UN		*EM — EMERGENT C	OW — OPEN WATER/ Unknown Bottom	RB — ROCK BOTTOM	UB UNCONS BOTTOM	SOLIDATED AB - A	AQUATIC BED	OW — OPEN WATER. Unknown Bottom	RB — ROCK BOTTOM	UB — UNCONSO BOTTOM	DLIDATED AB -	- AQUATIC BED	RS ROCKY SHORE	US — UNCONSOLIDATEI SHORE	D. EM EMERGENT	OW OPEN WATER/ Unknown Bottom	CLASS	
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Bed 2 Rub 3 Cob 4 San 5 Muc 6 Org 7 Veg	ble ble-Gravel d f anic	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Bedrock 2 Rubble	1 Cobble-1 2 Sand 3 Mud 4 Organic 5 Vegetate		Nonpersistent		1 Bedrock 2 Rubble	1 Cobble-Grave 2 Sand 3 Mud 4 Organic	2 Aqua 3 Roote 4 Floati 5 <i>Unkn</i>	tic Moss ed Vascular ing Vascular own Submergent own Surface		2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	3 Ro 4 Flo 5 <i>Un</i>	gal uatic Moss oted Vascular ating Vascular known Submergent known Surface	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	2 Nonpersistent	•	Subclass ,	
		"STREAMBED is limited to TIDAL and INTERMITTENT SUBSYSTEMS, and comprises the only CLASS in the INTERMITTENT SUBSYSTEM "EMERGENT is limited to TIDAL and LOWER PERENNIAL SUBSYSTEMS. The remaining CLASSES are found in all SUBSYSTEMS										MODIFIERS												aabinee	
	ewert devices of	TENGENT IS IIIIITED IV TIDAE BIID COWEN PENENNIAL SUBSTSTEMS. THE TRINBINING COASES are todard in an 30031312400										In order to more adequately describe wetland and deepwater 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													
SYSTEM		P — PALUSTRINE L								percent in the later in the second property of	WATER REGIME				WATER CHEMISTRY			Y	SOIL SPECIAL		DIFIERS				
CLASS	RB — ROCK BOT	TTOM UB — UNCOL BOTTO	UB — UNCONSOLIDATED AB — AQUATIC BED US — UNCONSOLIDATED ML — MOSS-LICHEN EM — EMERGENT SS — SCRUB-SHRUB FO — FORESTED OW — OPEN WATER BOTTOM SHORE				OW — OPEN WATER/ Unknown Bottom		Non-Tidal				Tidal Coastal Halinity Inland Salinity pH				THE PARTY OF THE AMERICAN STREET, STRE	as mishakak tara ake dake kekanara karahin polim mengia menjangkan pengangkan kalandak a kasahin	ikkelendin sololom tekkelen tersit sisiniski kepi eteran men mpiranyarji koras erak kada ana unua	Access					
Subclass	1 Bedrock 2 Rubbie	1 Cobble-Gri 2 Sand 3 Mud 4 Organic	2 A 3 R 4 F 5 <i>U</i>	igal quatic Moss ooted Vascular oating Vascular oknown Submergeni nknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	1 Moss 2 Lichen	1 Persister 2 Nonpersi		2 Needle-Leaved Decidaved 3 Broad-Leaved Every 4 Needle-Leaved Every 5 Dead 6 Deciduous aved 7 Evergreen	duous reen		l ly Flooded ly Flooded/ ned ly Flooded/	H Permanently FI J intermittently F K Artificially Floo W Intermittently Flooded/Tempo Y Saturated/Sem Seasonal Z Intermittently Exposed/Perm W Unknown	flooded ded orgry nipermanent/		*R Seasonal-Tidal *T Semipermanent-Tidal *V Permanent-Tidal	4 Polyhalini 5 Mesohalii 6 Oligohalii 0 Fresh	ne (Brackish) 9 N ne O F ine	usafine lixosaline	all Fresh Water a Acid t Circumneutral Alkaline	n Mineral d	Beaver Partially Drained/Ditched Farmed	h <i>Diked/Impounded</i> r Artificial Substrate s <i>Spoil</i> x Excavated		