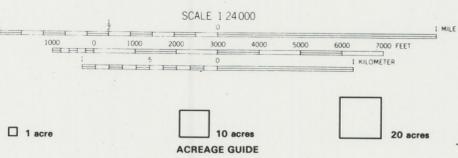


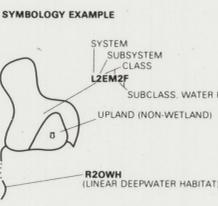
NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

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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.
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 (*).
 - Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.
 - Subsystems, Classes, and Water Regimes in italics were developed specifically for NATIONAL WETLANDS INVENTORY mapping.
 - Some areas designated as R4SB, R4SBJ, 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

AERIAL PHOTOGRAPHY
DATE 10/81
SCALE 1:50,000
TYPE CIR

SYSTEM	1 - SUBTIDAL	M - MARINE	2 - INTERTIDAL	1 - SUBTIDAL	E - ESTUARINE	2 - INTERTIDAL	SYSTEM			
SUBSYSTEM	1 - SUBTIDAL			1 - SUBTIDAL			SUBSYSTEM			
CLASS	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AB - AQUATIC BED RF - REEF OW - OPEN WATER/UNKNOWN BOTTOM		AB - AQUATIC BED RF - REEF RS - ROCKY SHORE US - UNCONSOLIDATED SHORE	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AB - AQUATIC BED RF - REEF OW - OPEN WATER/UNKNOWN BOTTOM	AB - AQUATIC BED RF - REEF RS - ROCKY SHORE US - UNCONSOLIDATED SHORE	AS - AQUATIC BED RF - REEF SS - STREAMBED AS - ROCKY SHORE US - UNCONSOLIDATED SHORE EM - EMERGENT SS - SCRUB SHRUB FO - FORESTED	CLASS			
SUBCLASS	1 Bedrock 2 Rubble 3 Cobble Gravel 4 Organic	1 Algal 2 Aquatic Moss 3 Rusted Vascular 4 Floating Vascular 5 Unknown Submerged 6 Organic 7 Vegetated	1 Algal 2 Aquatic Moss 3 Rusted Vascular 4 Floating Vascular 5 Unknown Submerged 6 Organic 7 Vegetated	1 Bedrock 2 Rubble 3 Cobble Gravel 4 Organic	1 Bedrock 2 Rubble 3 Cobble Gravel 4 Organic	1 Bedrock 2 Rubble 3 Cobble Gravel 4 Organic 5 Persistent 6 Nonpersistent 7 Broad Leaved Deciduous 8 Needle Leaved Deciduous 9 Broad Leaved Evergreen 10 Needle Leaved Evergreen 11 Dead/Spent 12 Deciduous 13 Evergreen	SUBCLASS			
SYSTEM	1 - TIDAL	2 - LOWER PERENNIAL	3 - UPPER PERENNIAL	4 - INTERMITTENT	5 - UNKNOWN PERENNIAL	1 - LIMNETIC	L - LACUSTRINE	2 - LITTORAL	SYSTEM	
SUBSYSTEM	1 - TIDAL					1 - LIMNETIC			SUBSYSTEM	
CLASS	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AB - AQUATIC BED RF - REEF OW - OPEN WATER/UNKNOWN BOTTOM	SB - STREAMBED AB - AQUATIC BED RF - REEF RS - ROCKY SHORE US - UNCONSOLIDATED SHORE	AB - AQUATIC BED RF - REEF RS - ROCKY SHORE US - UNCONSOLIDATED SHORE	EM - EMERGENT SS - SCRUB SHRUB FO - FORESTED OW - OPEN WATER/UNKNOWN BOTTOM	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AB - AQUATIC BED RF - REEF OW - OPEN WATER/UNKNOWN BOTTOM	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AB - AQUATIC BED RF - REEF OW - OPEN WATER/UNKNOWN BOTTOM	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AB - AQUATIC BED RF - REEF OW - OPEN WATER/UNKNOWN BOTTOM	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AB - AQUATIC BED RF - REEF OW - OPEN WATER/UNKNOWN BOTTOM	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AB - AQUATIC BED RF - REEF OW - OPEN WATER/UNKNOWN BOTTOM	CLASS
SUBCLASS	1 Bedrock 2 Rubble 3 Cobble Gravel 4 Organic	1 Bedrock 2 Rubble 3 Cobble Gravel 4 Organic	1 Algal 2 Aquatic Moss 3 Rusted Vascular 4 Floating Vascular 5 Unknown Submerged 6 Organic 7 Vegetated	1 Bedrock 2 Rubble 3 Cobble Gravel 4 Organic 5 Persistent 6 Nonpersistent	1 Bedrock 2 Rubble 3 Cobble Gravel 4 Organic	1 Bedrock 2 Rubble 3 Cobble Gravel 4 Organic	1 Bedrock 2 Rubble 3 Cobble Gravel 4 Organic	1 Bedrock 2 Rubble 3 Cobble Gravel 4 Organic	1 Bedrock 2 Rubble 3 Cobble Gravel 4 Organic 5 Persistent 6 Nonpersistent 7 Broad Leaved Deciduous 8 Needle Leaved Deciduous 9 Broad Leaved Evergreen 10 Needle Leaved Evergreen 11 Dead/Spent 12 Deciduous 13 Evergreen	SUBCLASS
SYSTEM	P - PALUSTRINE								SYSTEM	
SUBSYSTEM									SUBSYSTEM	
CLASS	RB - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AB - AQUATIC BED RF - REEF OW - OPEN WATER/UNKNOWN BOTTOM	US - UNCONSOLIDATED SHORE MO - MOSS LICHEN EM - EMERGENT SS - SCRUB SHRUB FO - FORESTED OW - OPEN WATER/UNKNOWN BOTTOM								CLASS
SUBCLASS	1 Bedrock 2 Rubble 3 Cobble Gravel 4 Organic	1 Moss 2 Lichen 3 Persistent 4 Nonpersistent 5 Broad Leaved Deciduous 6 Needle Leaved Deciduous 7 Broad Leaved Evergreen 8 Needle Leaved Evergreen 9 Dead/Spent 10 Deciduous 11 Evergreen								SUBCLASS
MODIFIERS 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 subclass level in the hierarchy. The format modifier may also be applied to the ecological system.										
WATER REGIME										
Non-Tidal										
Tidal										
WATER CHEMISTRY										
SOIL										
SPECIAL MODIFIERS										