

# NATIONAL WETLANDS INVENTORY

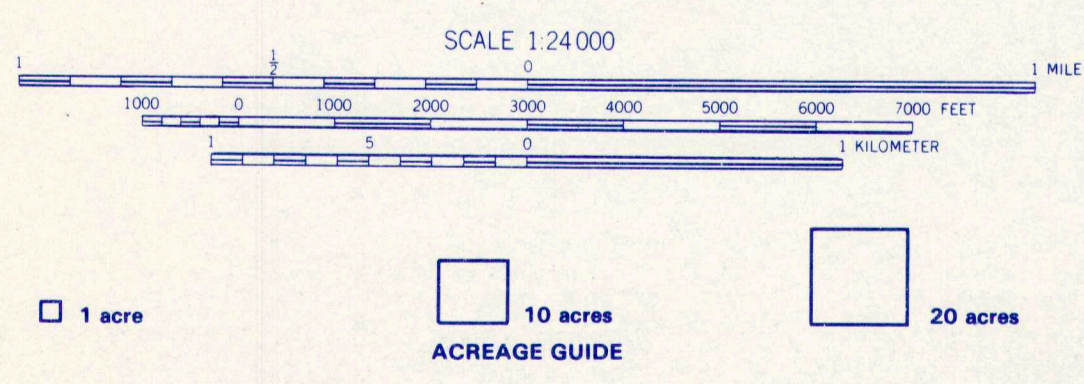
## UNITED STATES DEPARTMENT OF THE INTERIOR

TUFTONBORO, NEW HAMPSHIRE



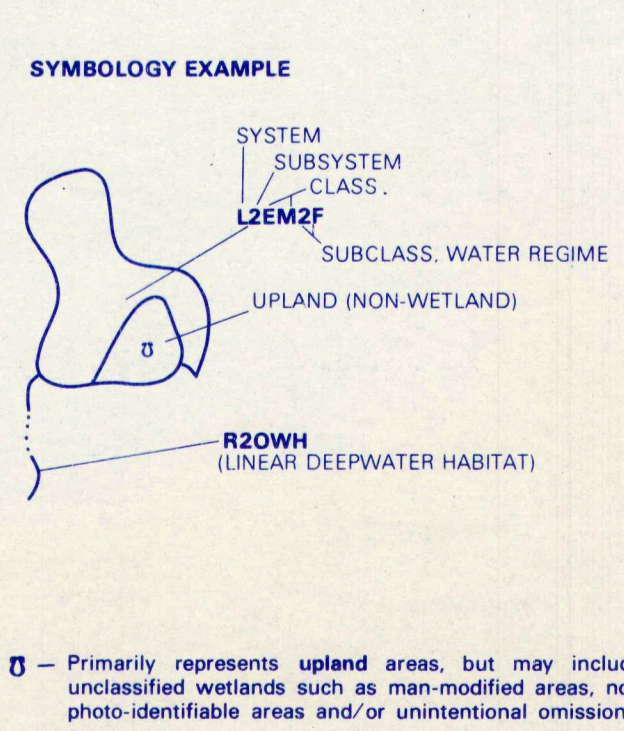
PORTLAND NW  
LAKE WINNIPESAUKEE

TUFTONBORO, NEW HAMPSHIRE



**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-78/31 December 1978). 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, Subclasses, and Water Regimes in italics were developed specifically for NATIONAL WETLANDS INVENTORY mapping.
- Some areas designated as RASB, RASBW, or RASBJ (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.

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

Regional Director (ARDE) Region V  
U.S. Fish and Wildlife Service  
1 Gateway Center, Suite 700  
Newton Corner, Massachusetts 01258



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

**AERIAL PHOTOGRAPHY**  
DATE: 5/86  
SCALE: 1:58 000  
TYPE: CIR

| SYSTEM  | 1 - SUBTIDAL                                | M - MARINE                                       | 2 - INTERTIDAL  | 1 - SUBTIDAL  | E - ESTUARINE                               | 2 - INTERTIDAL                                   | SYSTEM   |   |  |
|---|---|--|---|---|---|--|--|---|--|
| CLASS   | RB - ROCK BOTTOM                            | UB - UNCONSOLIDATED BOTTOM                       | AB - AQUATIC BED  | RF - REEF   | OW - OPEN WATER/UNKNOWN BOTTOM              | AS - AQUATIC BED                                 | US - UNCONSOLIDATED SHORE                        |   |  |
| Subclass  | 1 Bedrock<br>2 Rubble<br>3 Mud<br>4 Organic | 1 Cobble-Gravel<br>2 Sand<br>3 Muds<br>4 Organic | 1 Algal<br>2 Aquatic Macroalgae<br>3 Rooted Vascular<br>4 Floating Vascular<br>5 Unknown Submergent | 1 Coral<br>2 Worm<br>3 Mollusc<br>4 Organic   | 1 Bedrock<br>2 Rubble<br>3 Mud<br>4 Organic | 1 Cobble-Gravel<br>2 Sand<br>3 Muds<br>4 Organic | 1 Bedrock<br>2 Rubble<br>3 Mud<br>4 Organic      |   |  |
| SYSTEM <th>1 - TIDAL</th> <th>R - RIVERINE</th> <th>3 - UPPER PERENNIAL</th> <th>4 - INTERMITTENT</th> <th>5 - UNKNOWN PERENNIAL</th> <th>1 - LIMNETIC</th> <th>L - LACUSTRINE</th> <th>2 - LITTORAL</th> <th>SYSTEM</th> | 1 - TIDAL                                   | R - RIVERINE                                     | 3 - UPPER PERENNIAL   | 4 - INTERMITTENT  | 5 - UNKNOWN PERENNIAL                       | 1 - LIMNETIC                                     | L - LACUSTRINE                                   | 2 - LITTORAL                                | SYSTEM   |
| CLASS   | RB - ROCK BOTTOM                            | UB - UNCONSOLIDATED BOTTOM                       | SB - STREAMBED  | AS - AQUATIC BED  | US - UNCONSOLIDATED SHORE                   | EM - EMERGENT                                    | OW - OPEN WATER/UNKNOWN BOTTOM                   | RB - ROCK BOTTOM                            | UB - UNCONSOLIDATED BOTTOM                       |
| Subclass  | 1 Bedrock<br>2 Rubble<br>3 Mud<br>4 Organic | 1 Cobble-Gravel<br>2 Sand<br>3 Muds<br>4 Organic | 1 Bedrock<br>2 Rubble<br>3 Mud<br>4 Organic   | 1 Algal<br>2 Aquatic Macroalgae<br>3 Rooted Vascular<br>4 Floating Vascular<br>5 Unknown Submergent | 1 Bedrock<br>2 Rubble<br>3 Mud<br>4 Organic | 1 Persistent<br>2 Nonpersistent                  | 1 Cobble-Gravel<br>2 Sand<br>3 Muds<br>4 Organic | 1 Bedrock<br>2 Rubble<br>3 Mud<br>4 Organic | 1 Cobble-Gravel<br>2 Sand<br>3 Muds<br>4 Organic |

**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 lower level in the hierarchy. The termed modifier may also be applied to the subsystem.

| WATER REGIME  | WATER CHEMISTRY   | SOIL  | SPECIAL MODIFIERS   |
|---|---|---|---|
| <b>Non-Tidal</b><br>A. Temporally Flooded<br>B. Seasonally Flooded<br>C. Permanently Flooded<br>D. Intermittently Flooded<br>E. Seasonally Exposed<br>F. Intermittently Exposed<br>G. Artificially Flooded<br>H. Artificially Exposed<br>I. Regularly Flooded<br>J. Regularly Exposed<br>K. Artificially Flooded<br>L. Artificially Exposed<br>M. Regularly Flooded<br>N. Regularly Exposed<br>O. Unknown | <b>Tidal</b><br>1. Temporary-Tidal<br>2. Seasonal-Tidal<br>3. Semipermanent-Tidal<br>4. Permanent-Tidal<br>5. Unknown   | <b>Coastal Salinity</b><br>1. Hypersaline<br>2. Saline<br>3. Subsaline (Brackish)<br>4. Fresh | <b>pH Modifiers for all Fresh Water</b><br>1. Hypersaline<br>2. Saline<br>3. Subsaline (Brackish)<br>4. Fresh |
| <b>Soil</b><br>1. Organic<br>2. Mineral   | <b>Special Modifiers</b><br>a. Beaver<br>b. Partially Drained/Cutched<br>c. Fanned<br>d. Dead/Impounded<br>e. Artificial Substrate<br>f. Sand<br>g. Estuarine |   |   |