

MAP REPORT FORM

Scale 1:100,000

Map Name: Bemidji SW State(s): Minnesota

MAP PREPARATION

Photography Used:

<u>Emulsion</u>	<u>Scale</u>	<u>Date</u>	<u>Percent Coverage</u>
1. CIR	1:65,000	5/2/82	98%
2.			2% cloud/shadow cover
3.			

Field Check Dates:

1. 9/9,10/85
2. 9/12/85
3. 5/20/86

Contractor(s) for Photo Interpretation:

1. South Dakota Cooperative Fish and Wildlife Research Unit, SDSU, Box 2206, Brookings, SD 57007
- 2.
- 3.

Collateral Data Used:

1. U.S.G.S. Topographic Maps
2. Tamarac National Wildlife Refuge Map U.S.D.I. March, 1978
3. U.S.G.S. Water Resources Data, Minnesota, Water Year 1983
- 4.
- 5.
- 6.
- 7.
- 8.

GEOGRAPHY

General Location:

95° 00' - 96° 00' West Longitude

47° 00' - 47° 30' North Latitude

In the North Central to North Western part of Minnesota

Bailey's Ecoregion Classification and Description:

1. 2111 - Humid Temperate Domain
 - Warm Continental Division
 - Laurentian Mixed Forest Province
 - Spruce-Fir Forest Section

2. This area has strong seasonal temperature changes. It exhibits fairly low relief and is characterized by low rolling hills, lakes, poorly drained depressions, morainic hills and other glacial features. Precipitation ranges are moderate with most occurring during the summer.

- 3.

- 4.

WETLAND COMMUNITIES

<u>MAP SYMBOLS</u>	<u>LOCAL NAME</u>	<u>DOMINANT VEGETATION</u>	<u>WATER REGIME</u>
PEM	Temporary Wetland	Carex spp., Juncus spp., Hordeum jubatum, Aster spp., Spartina spp.	A
PEM	Saturated Wetland	Carex spp., Juncus spp.	B
PEM	Seasonal Wetland	Carex atheroides, Polygonum spp., Phalaris arundinacea, Scholochloa festucacea	C
PEM	Semi-permanent Wetland	Typha spp., Scirpus spp.	F
PUB	Pond	None	F,G,H,K
PSS	Scrub Shrub Wetland	Salix spp., Alnus spp. Chamaedaphne calyculata	A,B,C,F Subclasses- 1,2,3,4,6
PFO	Forested Wetland	Larix loricina, Picea mariana, Salix spp., Populus tremuloides, ulmus americana	A,B,C,F Subclasses- 1,2,3,4,5,6
L1UB	Lake	None	H
L2AB	Lake	Lemna spp., Nuphar luteum	G
L2UB	Lake	None	G
L2EM2	Lake	Zizania aquatica	G
R2UB	River	None	G,H
R2US	Shore, Sandbar	pioneer spp., or none	A,C
R4SB	Stream	None	F

Special Modifiers b,d,h,x were used where appropriate.

SPECIAL MAPPING PROBLEMS

1. Carex beds were found in seasonal and
saturated situations in the field.

Photo signature is the same.

2. PEMC's in the Upper Egg Lake area in
the south central portion of the map,
exhibited a typical scrub-shrub signature.

3. Temporary wetlands are weak signatures
on the photography.

4. Forested temporaries do not always show
up along rivers.

1. Each basin was dealt with separately
with the PI making the distinction
based on location, situation and
collateral data.

2. This seemed to be a localized problem
and was not encountered elsewhere on
the map. We pulled those we saw in
the field as emergent, and followed
the typical scrub-shrub signature for the
rest of the map.

3. We will be aggressive in pulling tempor-
aries, especially on the western, more
agriculturalized part of the map.

4. It is recognized nationally that some
of these areas will be missed. We will
pull those that can be identified on
the photography and those that were
seen in the field.

USER CAUTION

The map 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 Operation Draft) Cowardin, et al., 1977. The aerial photographs typically reflected conditions during the 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 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 the map 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 design or products of this inventory, to define limits of proprietary jurisdiction of any Federal, State, or local government or to establish the geographical scope of 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 specific agency regulatory programs and proprietary jurisdictions that may affect such activities.

Additional information regarding this map or other National Wetland Inventory activities may be obtained by contacting:

- 1) Ron Erickson, Regional Wetland Coordinator, U.S.F.W.S., Federal Building, Fort Snelling, Twin Cities, MN 55111.
- 2) South Dakota Cooperative Fish and Wildlife Research Unit, S.D.S.U., Box 2206, Brookings, SD 57007