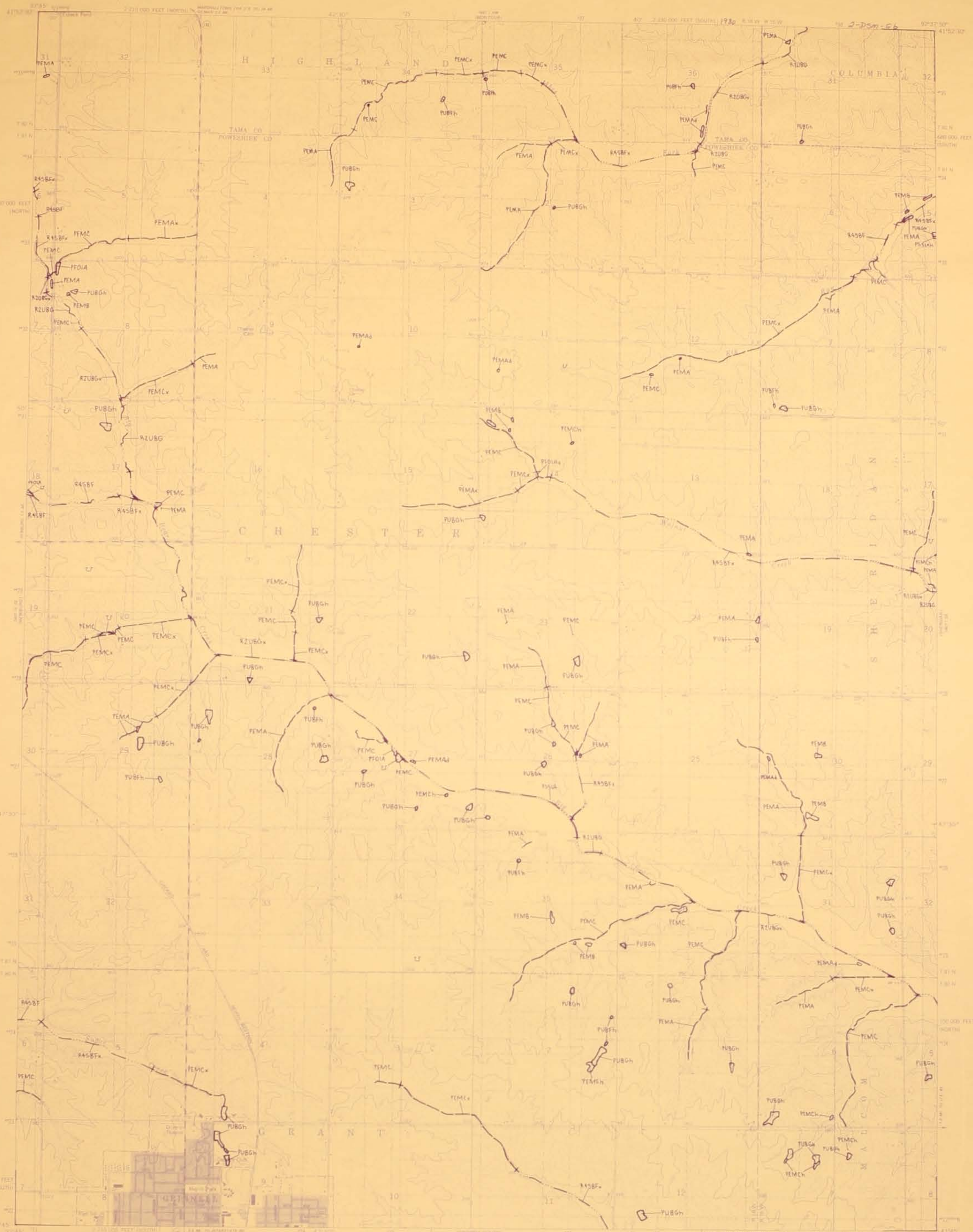


NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

GRINNELL NORTH, IOWA



DES MOINES NE
GRINNELL

GRINNELL NORTH, IOWA

DRAFT

SYMBOLS



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.

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NOTES TO 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 *Ralce* were developed specifically for NATIONAL WETLANDS INVENTORY mapping.
- Some areas designated as RASB, RASBW, or RASBL (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 (B), Bar (BB), or Flat (FL). Subclasses remain the same in both versions.

AERIAL PHOTOGRAPHY

DATE 5-83 SCALE 1:58,000
TYPE CIR



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

1:100,000 NAME DES MOINES NE GRINNELL TOPO NAME GRINNELL, IOWA	TECHNICAL RESPONSIBILITY
TASK	NAME DATE
ZTS	T. G. GLENN 1-15-80
ZTS QC	T. G. GLENN 3-22-80
MAP P/QC	T. G. GLENN 3-22-80
ZTS CORRECTION	T. G. GLENN 4-9-80
CORRECTION CHECK	T. G. GLENN 4-13-80
F.W.S. ACCEPT	

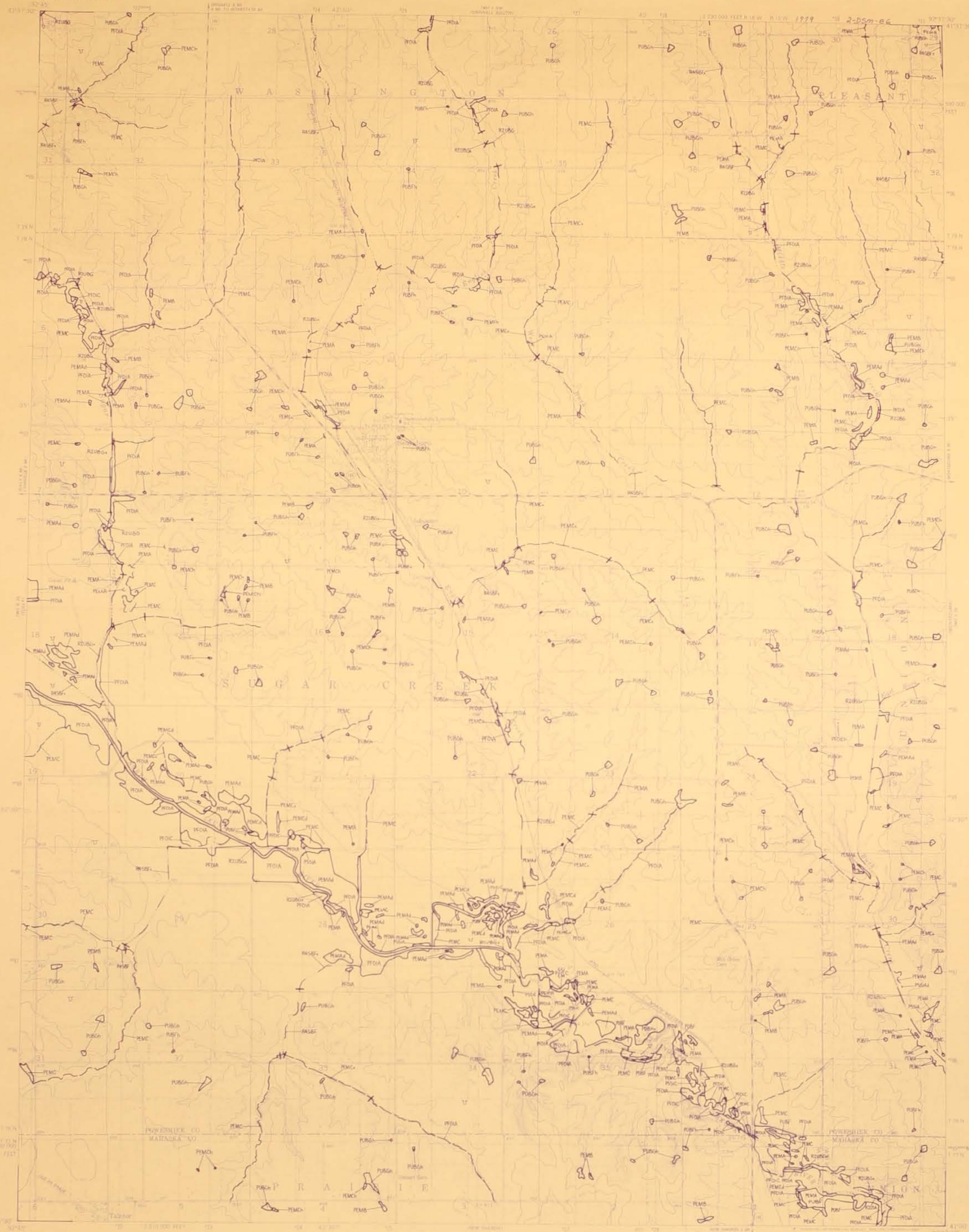
SYSTEM	1 - SUBTIDAL	2 - INTERTIDAL	3 - ESTUARINE	4 - RIVERINE	5 - LACUSTRINE	6 - UPLAND
SUBSYSTEM	1 - SUBTIDAL	2 - INTERTIDAL	1 - SUBTIDAL	2 - INTERTIDAL	1 - SUBTIDAL	2 - INTERTIDAL
CLASS	RE - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AS - AQUATIC BED RS - ROCKY SHORE US - UNCONSOLIDATED SHORE EM - EMERGENT FO - FORESTED	RE - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AS - AQUATIC BED RS - ROCKY SHORE US - UNCONSOLIDATED SHORE EM - EMERGENT FO - FORESTED	RE - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AS - AQUATIC BED RS - ROCKY SHORE US - UNCONSOLIDATED SHORE EM - EMERGENT FO - FORESTED	RE - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AS - AQUATIC BED RS - ROCKY SHORE US - UNCONSOLIDATED SHORE EM - EMERGENT FO - FORESTED	RE - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AS - AQUATIC BED RS - ROCKY SHORE US - UNCONSOLIDATED SHORE EM - EMERGENT FO - FORESTED	RE - ROCK BOTTOM UB - UNCONSOLIDATED BOTTOM AS - AQUATIC BED RS - ROCKY SHORE US - UNCONSOLIDATED SHORE EM - EMERGENT FO - FORESTED
SUBCLASS	1. Bedrock 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic 7. Algal 8. Aquatic Moss 9. Floating Vegetation 10. Submerged 11. Emergent 12. Forested	1. Bedrock 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic 7. Algal 8. Aquatic Moss 9. Floating Vegetation 10. Submerged 11. Emergent 12. Forested	1. Bedrock 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic 7. Algal 8. Aquatic Moss 9. Floating Vegetation 10. Submerged 11. Emergent 12. Forested	1. Bedrock 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic 7. Algal 8. Aquatic Moss 9. Floating Vegetation 10. Submerged 11. Emergent 12. Forested	1. Bedrock 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic 7. Algal 8. Aquatic Moss 9. Floating Vegetation 10. Submerged 11. Emergent 12. Forested	1. Bedrock 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic 7. Algal 8. Aquatic Moss 9. Floating Vegetation 10. Submerged 11. Emergent 12. Forested

GRINNELL SOUTH, IOWA



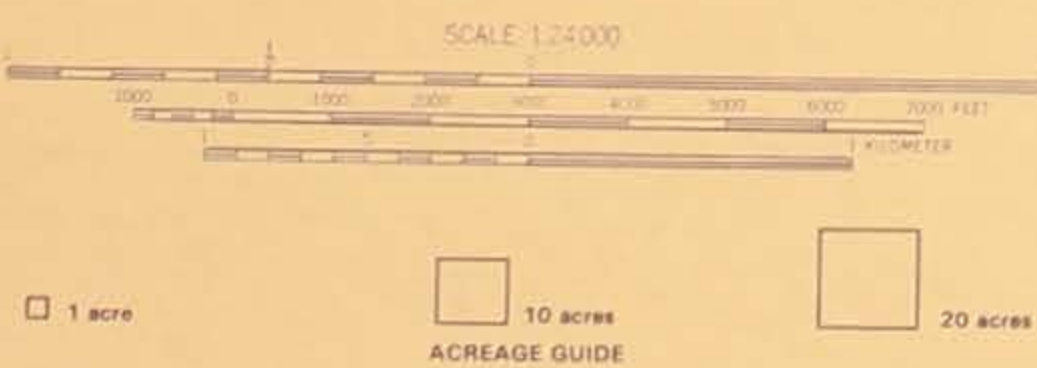
NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

SEARSBORO, IOWA



DRAFT

SEARSBORO, IOWA



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

1:100,000 NAME	TOPO NAME	TECHNICAL RESPONSIBILITY	NAME	DATE
DES MOINES NE GRINNELL	SEARSBORO, IOWA	TASK	BARRY RICKS	1-16-90
		ZTS		
		ZTS OC	C. GLENN	3/23/90
		MAP PI OC	T. J. JEFFREY	7-22-90
		ZTS CORRECTION	T. J. JEFFREY	4/12/90
		CORRECTION CHECK	C. GLENN	4/16/90
		FWS ACCEPT	JIM TERRY	5/16/90

SPECIAL NOTE

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SYMBOLS EXAMPLE



NOTES TO THE USER

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- 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.

AERIAL PHOTOGRAPHY

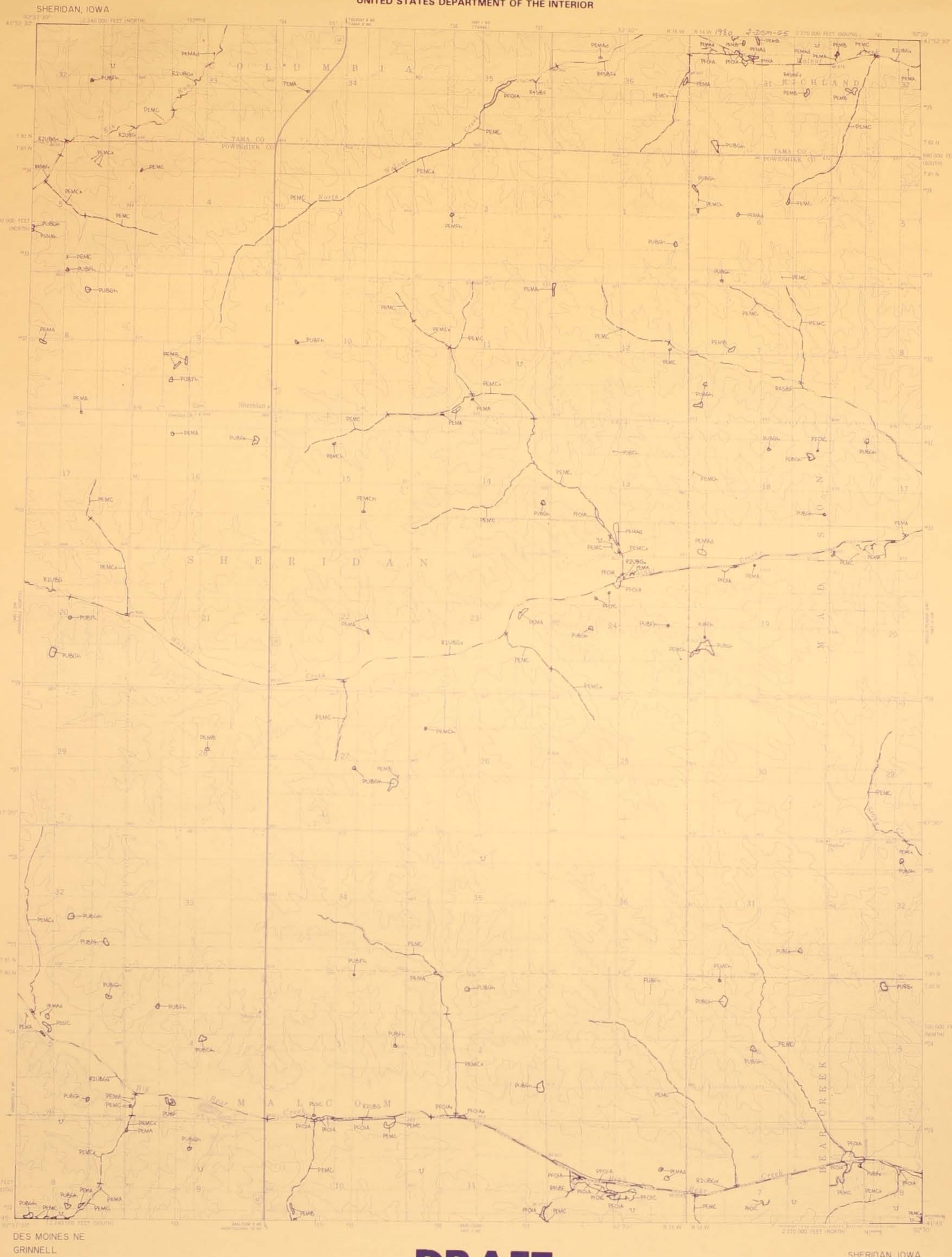
DATE 5/83 SCALE 1:50,000 TYPE CIR

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



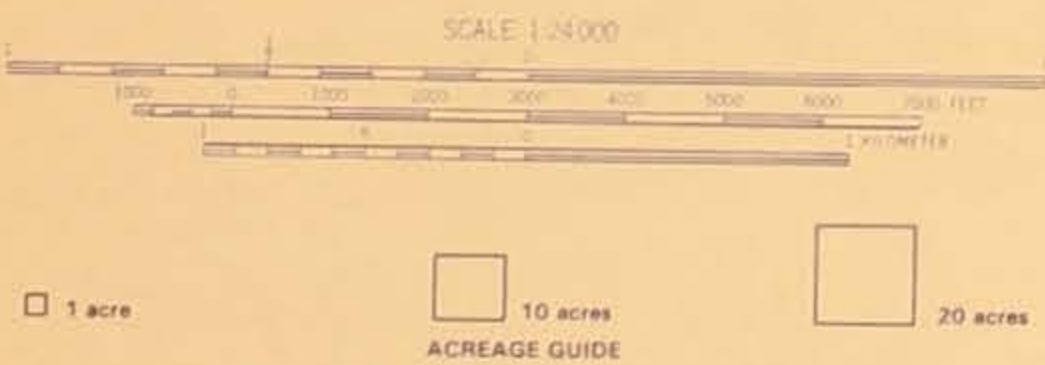
SYSTEM	1 - SUBTIDAL	2 - INTERTIDAL	3 - RIVERINE	4 - LIMNETIC	5 - LITTORAL
SUBSYSTEM	1 - SUBTIDAL	2 - INTERTIDAL	1 - TIDAL	2 - LOWER PERENNIAL	3 - UPPER PERENNIAL
CLASS	1 - ROCK BOTTOM	1 - ROCK BOTTOM	1 - TIDAL	1 - TIDAL	1 - TIDAL
Subclass	1. Rock 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic	1. Algal 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic	1. Tidal 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic	1. Tidal 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic	1. Tidal 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic
SYSTEM	6 - PALUSTRINE	7 - ESTUARINE	8 - RIVERINE	9 - LIMNETIC	10 - LITTORAL
SUBSYSTEM	1 - TIDAL	2 - LOWER PERENNIAL	3 - UPPER PERENNIAL	4 - INTERMITTENT	5 - UNKNOWN PERENNIAL
CLASS	1 - TIDAL	2 - LOWER PERENNIAL	3 - UPPER PERENNIAL	4 - INTERMITTENT	5 - UNKNOWN PERENNIAL
Subclass	1. Tidal 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic	1. Tidal 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic	1. Tidal 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic	1. Tidal 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic	1. Tidal 2. Rubble 3. Cobble Gravel 4. Sand 5. Mud 6. Organic

NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR



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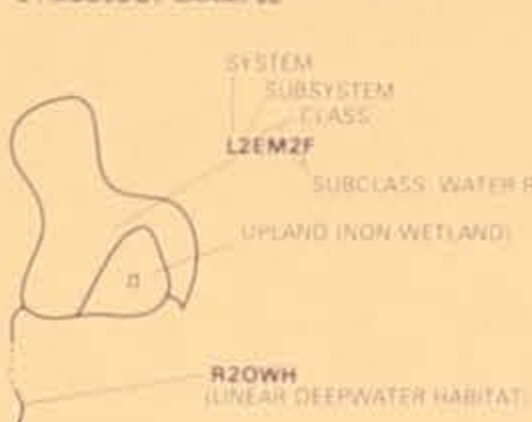
SHERIDAN, IOWA



SPECIAL NOTE

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U.S. DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
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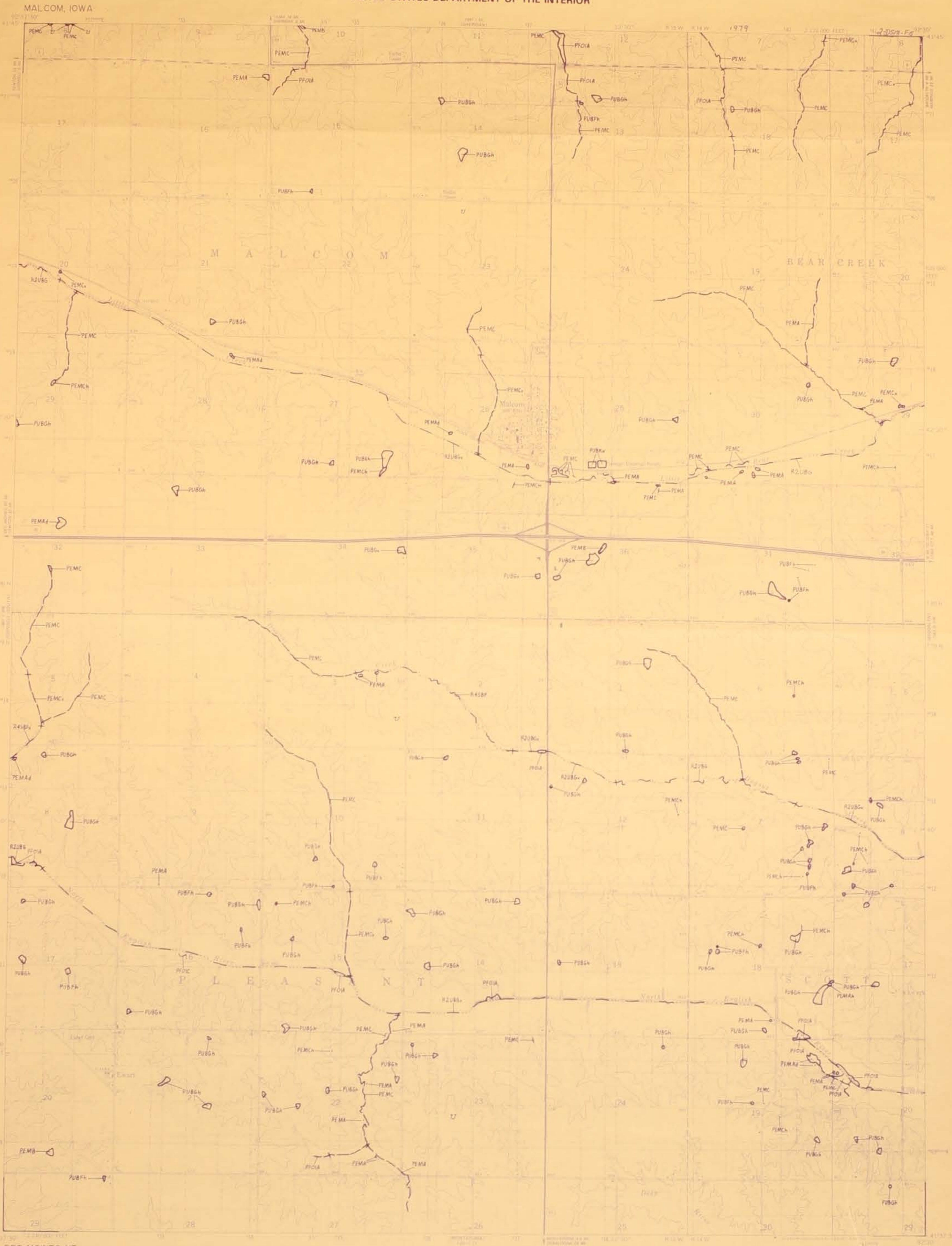
TECHNICAL RESPONSIBILITY			
TASK	NAME	DATE	
ZTS	Transfer	1-16-80	
ZTS QC	Quality Control	3-28-80	
MAP PI QC	Map Production Quality Control	4-11-80	
ZTS CORRECTION	Correction	4-11-80	
CORRECTION CHECK	Correction Check	5-14-80	
F.W.S. ACCBPT	Final Review	5-14-80	

AERIAL PHOTOGRAPHY

DATE 5-85
SCALE 1:58,000
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NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

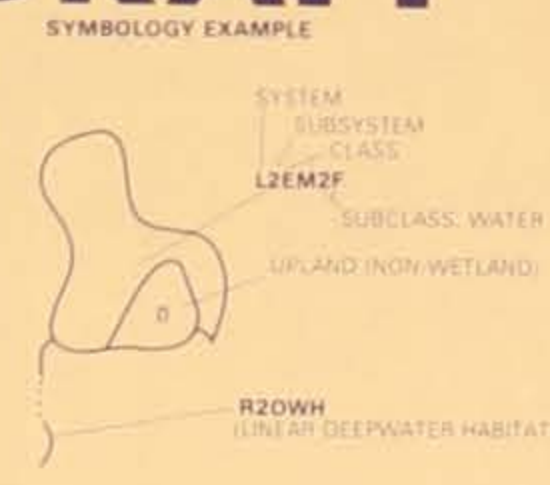


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U.S. DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
Prepared by National Wetlands Inventory

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

TECHNICAL RESPONSIBILITY	
TASK	NAME
Transfer	AN ABRAHAM
Lettering	1-18-79
ZTS QC	2-15-79
MAP PI QC	3-28-79
ZTS CORRECTION	4-18-79
CORRECTION CHECK	5-30-79
F.W.S. ACCEPT	6-30-79

SYSTEM		E - ESTUARINE		SYSTEM	
SUBSYSTEM		SUBSYSTEM		SUBSYSTEM	
CLASS	SUBCLASS	CLASS	SUBCLASS	CLASS	SUBCLASS
1 - Subtidal	1 - Subtidal	1 - Subtidal	1 - Subtidal	1 - Subtidal	1 - Subtidal
2 - Intertidal	2 - Intertidal	2 - Intertidal	2 - Intertidal	2 - Intertidal	2 - Intertidal
3 - Riverine	3 - Riverine	3 - Riverine	3 - Riverine	3 - Riverine	3 - Riverine
4 - Lacustrine	4 - Lacustrine	4 - Lacustrine	4 - Lacustrine	4 - Lacustrine	4 - Lacustrine
5 - Palustrine	5 - Palustrine	5 - Palustrine	5 - Palustrine	5 - Palustrine	5 - Palustrine

MODIFIERS

WATER REGIME	WATER CHEMISTRY	SOIL	SPECIAL MODIFIERS
Non-Tidal	Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 - Freshwater	1 - Freshwater	1 - Freshwater	1 - Freshwater
2 - Brackish	2 - Brackish	2 - Brackish	2 - Brackish
3 - Saline	3 - Saline	3 - Saline	3 - Saline
4 - Very Saline	4 - Very Saline	4 - Very Saline	4 - Very Saline
5 - Unknown	5 - Unknown	5 - Unknown	5 - Unknown

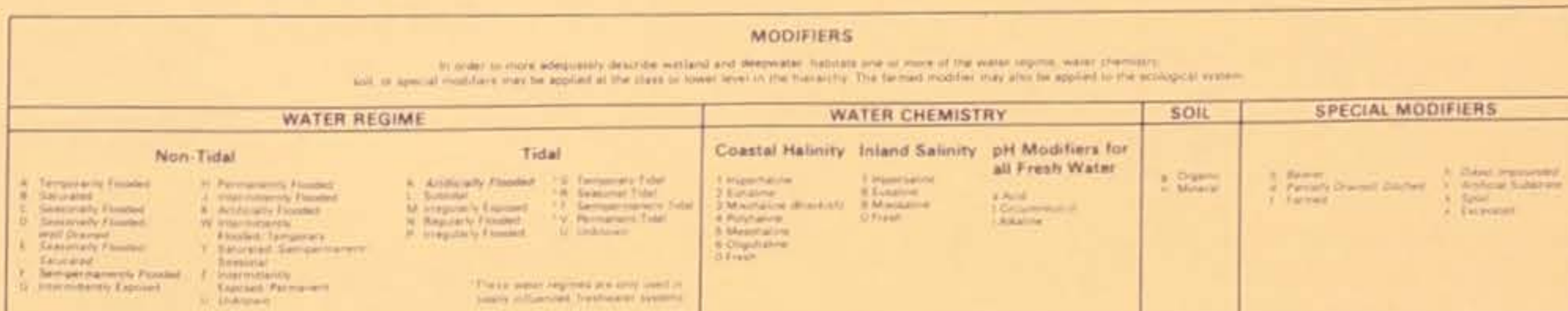
MONTEZUMA, IOWA



MONTEZUMA, IOWA

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

DATE 5/83 DATE
SCALE 1:58,000 SCALE
TYPE CIR TYPE



BELLE PLAINE SW. IOWA



BARNES CITY, IOWA



BARNES CITY, IOWA



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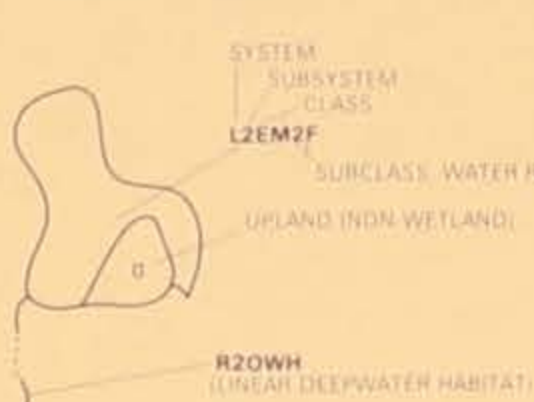
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		ZTS QC	<i>W DEANOVICH</i>	9-20-90
		MAP PI QC	<i>J BERKE</i>	3-23-90
		ZTS CORRECTION	W DEANOVICH	4 P 90
		CORRECTION CHECK	<i>J. HOLT</i>	4-15-90
		SWR ACCEPT	<i>Jim Terry</i>	5-30-90

SPECIAL NOTE

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SYMBOLGY EXAMPLE



NOTES TO THE USER

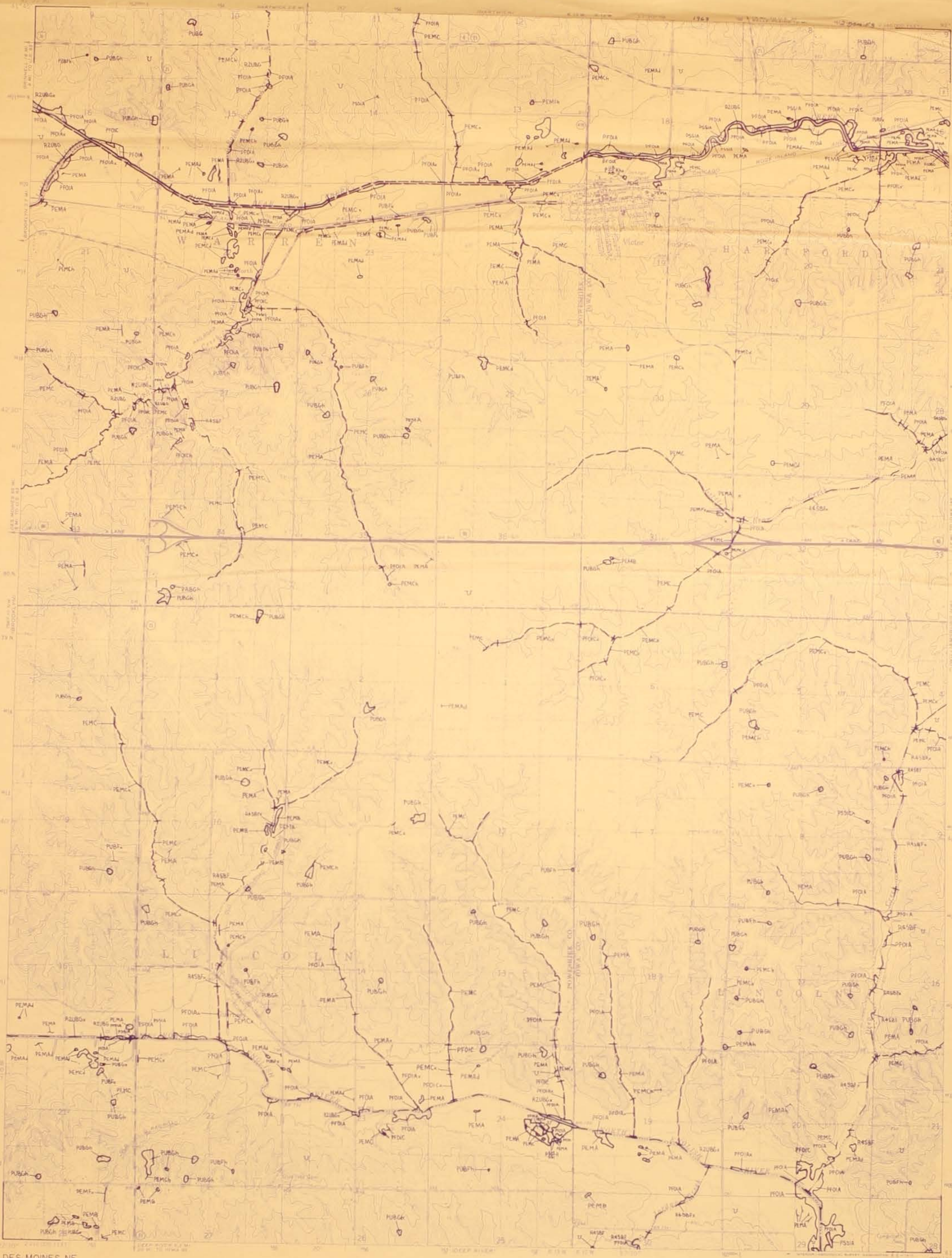
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- This map uses the class Unconsolidated Shore (US). On earlier NWI maps that class was designated Beach-Bar (BB), or Flat (FL). Subclasses remain the same in both versions.

AERIAL PHOTOGRAPHY

DATE 5 83 DATE
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NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

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SYMBOLS



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AERIAL PHOTOGRAPHY

DATE 5/83 DATE
SCALE 1:50,000 SCALE
TYPE CIR TYPE

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



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TECHNICAL RESPONSIBILITY			
TASK	NAME	DATE	
ZTS	Transfer	1/11/80	
ZTS QC	C. GLEASON	3/24/80	
MAP PI QC	A. J. JONES	3/13/81	
ZTS CORRECTION	W. DEANOLICH	4/18/82	
CORRECTION CHECK	C. GLEASON	4/13/80	
F.W.S. ACCEPT	J. M. TERRY	5/30/80	

SYSTEM

SUBSYSTEM

CLASS

SUBCLASS

1 - SUBTIDAL

2 - INTERTIDAL

M - MARINE

1 - SUBTIDAL

2 - INTERTIDAL

1 - SUBTIDAL

2 - INTERTIDAL

E - ESTUARINE

1 - SUBTIDAL

2 - INTERTIDAL

1 - SUBTIDAL

2 - INTERTIDAL

R - RIVERINE

1 - TIDAL

2 - LOWER PERENNIAL

3 - UPPER PERENNIAL

4 - INTERMITTENT

5 - UNKNOWN PERENNIAL

1 - TIDAL

2 - LOWER PERENNIAL

3 - UPPER PERENNIAL

4 - INTERMITTENT

5 - UNKNOWN PERENNIAL

L - LACUSTRINE

1 - LIMNETIC

2 - LITTORAL

1 - LIMNETIC

2 - LITTORAL

P - PALUSTRINE

1 - TIDAL

2 - LOWER PERENNIAL

3 - UPPER PERENNIAL

4 - INTERMITTENT

5 - UNKNOWN PERENNIAL

1 - TIDAL

2 - LOWER PERENNIAL

3 - UPPER PERENNIAL

4 - INTERMITTENT

5 - UNKNOWN PERENNIAL

MODIFIERS

WATER REGIME

WATER CHEMISTRY

SOIL

SPECIAL MODIFIERS

Non-Tidal

Tidal

Coastal Salinity

Inland Salinity

pH Modifiers for all Fresh Water

1. Temperature Fluctuates

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DEEP RIVER, IOWA



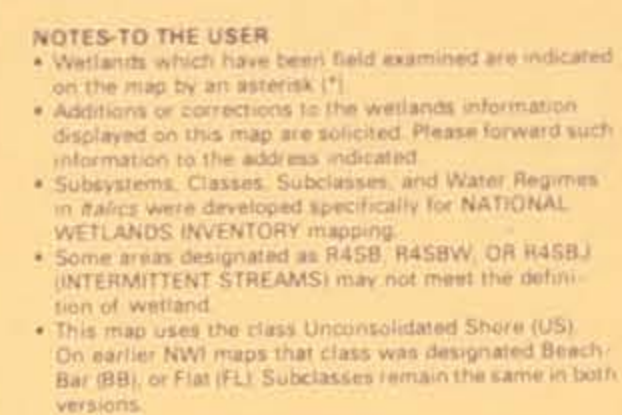
Other information including a narrative report concerning the wetland resources depicted on this document may be available. For information, contact:

SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified and geographically located on vegetation, hydrology, and geomorphic features. **Classification of Wetlands and Deepwater Habitats of the United States** (Wetlands Classification Manual) and **Wetland Photogrammetry** typically reflect results obtained during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of aerial photography. Thus, a detailed ground and/or aerial analysis of a single site may result in a revision of the wetland boundaries established through photogrammetry. Wetland boundaries established on aerial photographs obscured by dense forest cover may not be included on this document.

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 intent to establish a boundary between the inventory, to define the limits of proprietary jurisdiction of any Federal, State or local government or to establish the jurisdiction of any Federal, State or local government agency. **Persons intending to engage in activities involving modifications within or adjacent to wetland areas should consult with the appropriate Federal, State or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect**

SYMBOLOLOGY EXAMPLE



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

AERIAL PHOTOGRAPHY

DATE 5 / 83 DATE / /
SCALE 1:58 000 SCALE / /
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