FIELD SUMMARY REPORT
WATERLOO SW, IOWA

I. Introduction:

A. Dates of visitation: April 20, 1987, April 21, 1987

B. Anthony Apa, SDSU Wetland Resource Specialist

C. Participants: Ross Blank-Libra, SDSU Wetland Resource Specialist

Brian Smith, SDSU Wetland Resource Specialist

R. Nicholas Rowse, USFWS Assistant Region 3 Wetland Coordinator

D. Photography: NHAP(CIR - 1:58,000)

Dates: May 15, 1983 75% coverage

May 23, 1983 12.5% coverage

April 28, 1984 12.5% coverage

Photos visited:

343-141	517-99	343-23	347-177
343-273*	517-101*	343-21*	347-175
343-271*	517-103*	343-138	347-133
343-269*	517-105*	343-136*	347-135
343-27		343-134	347-21
343-25*		347-17*	347-19

* Photos with check site(s)

E. Collateral Data:

I. USGS Topographic Maps:

-7.5' quadrangle maps visited include the Blairsburg, Webster City, Stanhope, Mackey, Fraser, Boone West, Boone East, Ames NW, Jewell, Ellsworth, Story City, Ames East, McCallsburg, Zearing, Hubbard, New Providence, Owasa

II. Field Trip Objectives and Resolutions:

A. To determine water conditions at the times of the photography.

The water conditions on the 28 April 1984 were adequate. The 15 May 1983 photography was found to be drier than expected. I will be slightly more aggressive with this photography. The 23 May 1983 photography was adequate also.

B. Determine which signatures in plowed fields should be considered wetland.

The interpretation was completed on the April photography and it was found that I was slightly aggressive and some temporaries pulled need to be deleted. With the May photography, when signatures were compared to present field conditions, the result was very inconsistent. In some cases strong signatures were found to be upland and in others weak signatures were found to be wetland. Consistency with past quads will remain. A strong basin oriented signature with water present will be pulled as a temporary or seasonal wetland with a drained modifier, where applicable. These basins sometimes show a faint vegetated signature.

C. Addition of a drained modifier in temporary wetlands in plowed fields.

Tile drainage was present in 80 - 90% of the temporary wetlands visited. The drained modifier will be added only when a signature is present. It must be noted that many of the PEMA's pulled on the photography are being actively drained but will not have a drained modifier because of the lack of a photosignature.

D. Determine if draws and vegetated waterways will be considered wetland.

Grassy waterways will be considered upland unless they display a very wet signature in the photo. The same is true for farmed or plowed draws.

E. Determine classification of linears as to perennial or intermittent in comparison to topos.

Photo will be used as the main source of determination of classification. Topo will be used as a guide in questionable situations.

F. Where to determine the Lacustrine break off and the wetland types flooded along the Saylorville Lake of the Des Moines River.

The Saylorville Lake Reservoir was created by a earthfill dam completed in 1976. The spillway elevation is a 884 feet, and this is where the riverine/lacustrine system break occurs. Much of the area was flooded at the time of photography. It was found in the field that much of the unforested area is nondepressional agricultural land and will be classified as upland. The forested areas will be classified as seasonal or temporary, given an appropriate signature with the impound modifier added.

G. Temporary forested areas along rivers.

We will be more aggressive on these areas than in previous situations. We will use collateral data and field trip observations in conjunction with an identifiable photo signature to determine wetland / upland boundary. However, some of these areas may be missed during PI due to leafed out conditions of the tree canopy. These circumstances are acknowledged nationally.

Note: Wetlands identified in the field but not check sited will have an underlined water regime.

III. Overview:

The Waterloo SW is located within 42°30' to 42°00' N latitude and 94°00'[4] to 93°00'W longitude. The elevation of the area ranges from 880 -1200 feet.

The quad contains 2 ecoregions according to R. G. Bailey. The northern portion is classified as the Bluestem Prairie (2531). This region is characterized by flat and rolling plains. This flat and rolling hill land has well developed drainage systems. The average annual precipitation ranges from 20 - 40 inches. The southern portion is classified as a Oak-Hickory-Bluestem Parkland (2511). This is characterized by alternating prairie and deciduous forests. The topography is gently rolling plains, but steep bluffs border a number of the valleys. The average annual precipitation ranges from 23 - 40 inches.

The land is under intensive and extensive agricultural practices. Most of the prairie is cultivated with some grazing practices along the river drainages.

IV. Biological Characteristics of Wetland Habitats:

Marine: Not present

Estuarine: Not present

Riverine: The 4 major rivers on the area are the Boone, Des Moines, Iowa, and Skunk. These rivers will be classified as permanent. Numerous other perennial streams and channeled rivers will be pulled as intermittently exposed. Many of the rivers have been channelized and the excavated modifier will be used when applicable.

Lacustrine: The major lacustrine systems found are Little Wall Lake, Goose Lake and Saylorville Lake. These lakes will be considered limnetic because there is no collateral data available to show where the littoral subsystem is located. The Saylorville Lake situation is an impounded river and will be handled accordingly as was discussed earlier in the report. Other lacustrine systems that may occur are sewage lagoons, gravel pits or impoundments.

Palustrine: The majority of palustrine wetlands that were encountered were in conjunction with riverine systems. Many of them were temporary forested areas and others were oxbows cut off from the river. Very few "pot holes" exist due to intensive drainage and farming practices. The primary ones that do occur are temporary or seasonal drained wetlands, although drainage limits their ability to function as wetland during successive years.

Linear seasonal wetlands which were excavated are also common in the area.

The following is a list of the most commonly found species and their classification.

PEMA

various agricultural crops	
smartweed	*Polygonum* spp.
foxtail barley	*Hordeum jubatum*

PEMC

sedges	*Carex* spp.
smartweed	*Polygonum* spp.
reed canary grass	*Phalaris arundivacea*
cattail	*Typha* spp.

PEMF

cattail	*Typha* spp.

PFO1

cottonwood	*Populus deltoides*
American elm	*Ulmus americana*
silver maple	*Acer saccharinum*
willow	*Salix* spp.

PSS1

willow	*Salix* spp.

WETLAND FIELD DATA SHEET

REPORT NO. 1 DATE 4 / 20 / 87

REPORTED BY: (Name) Tony Ana (Title) Wetland Resource Specialist (Agency) SDCFWRU

OTHER FIELD PARTY MEMBERS: Brian Smith, Ross Blank-Libra, Nick Rouse

1 Location: 1:100,000 Map Waterloo SW

STATE Iowa COUNTY Hamilton

TOWN Stanhope U.S.G.S. QUAD Stanhope

WATERSHED ECOREGION 251I/251J

(Please attach xerox copy of portion of U.S.G.S. quad showing location of subject field sites.)

Brief description of site relative to identifiable points on topographic map (e.g. adjacent river, highway, etc.):

SW¼ NE¼ of Sec. 14, T 87N, R 26W. 3 miles west and 4 miles north of Stanhope along the Boone River at a road side park.

2 Reason for Inspection:

- [x] NWI Photo Interpretation Field Reconnaissance
- [ ] NWI Draft Map Review
- [ ] Permit Review: Application # _____ (Agency) _____ Date of Notice _____
- [ ] HEP Analysis
- [ ] Other (specify) _____

3 Wetland Classification on NWI Map according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	517-101-1		
System	P		
Subsystem			
Class	FO		
Subclass	1		
Water Regime	A		
Water Chemistry			
Special Modifiers			

4 In-Field Wetland Classification according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	517-101-1		
System	P		
Subsystem	[illegible]		
Class	FO		
Subclass	1		
Water Regime	A		
Water Chemistry			
Special Modifiers			

5 Description of Wetland Plant Community

Site No.	517-101-1		
Dominance Type(s)	Trees		
Common Plants	Populus deltoides		
	Ulmus americana		
	Acer negundo		
	Acer saccharinum		
Less Common Plants			

6 **Associated Soils (from SCS Soil Survey, if available):**

7 **Other Observations (water regime, wildlife, etc.):** The soil was very sandy and was probably an old sandbar that has been colonized.

8 **Discussion of Wetland Photo-Interpretation:** The medium grey rough textured signature in the meander of the river will be pulled as a PFO1A

WETLAND FIELD DATA SHEET

REPORT NO. 2 DATE 4 / 20 / 87

REPORTED BY: (Name) Tony Apa (Title) Wetland Resource Specialist (Agency) SDCFWRU

OTHER FIELD PARTY MEMBERS: Brian Smith, Ross Blank-Libra, Nick Rowse

1 Location: 1:100,000 Map Waterloo SW

STATE Iowa COUNTY Hamilton

TOWN Stanhope U.S.G.S. QUAD Stanhope

WATERSHED ECOREGION 2531/2511

(Please attach xerox copy of portion of U.S.G.S. quad showing location of subject field sites.)

Brief description of site relative to identifiable points on topographic map (e.g. adjacent river, highway, etc.):

SE¼ Sec 25 T87N, R26W. 1½ miles north and 1¼ miles west of Stanhope

2 Reason for Inspection:

- [x] NWI Photo Interpretation Field Reconnaissance
- [ ] NWI Draft Map Review
- [ ] Permit Review: Application # _____ (Agency) _____ Date of Notice _____
- [ ] HEP Analysis
- [ ] Other (specify) _____

3 Wetland Classification on NWI Map according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	517-103-1		
System	P		
Subsystem			
Class	EM		
Subclass			
Water Regime	C		
Water Chemistry			
Special Modifiers			

4 In-Field Wetland Classification according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	517-103-1		
System	P		
Subsystem			
Class	EM		
Subclass			
Water Regime	C		
Water Chemistry			
Special Modifiers			

5 Description of Wetland Plant Community

Site No.	517-103-1		
Dominance Type(s)	Emergence		
Common Plants	Polygonum spp		
	Typha spp.		
	Carex spp		
Less Common Plants			

R-3-72

CONTINUED ON REVERSE

6 **Associated Soils (from SCS Soil Survey, if available):**

7 **Other Observations (water regime, wildlife, etc.):**

8 **Discussion of Wetland Photo-Interpretation:** The dark grey signature and the white borders in the pasture (red) field exhibits a classic seasonal signature

WETLAND FIELD DATA SHEET

REPORT NO. 3 DATE 4 / 20 / 87

REPORTED BY: (Name) Tony Apa (Title) wetland Resource Specialist (Agency) SDCFWRU

OTHER FIELD PARTY MEMBERS: Brian Smith, Ross Blank-Libra, Nick Rouse

1 Location: 1:100,000 Map Waterloo SW

STATE Iowa COUNTY(s) Hamilton / Boone

TOWN Mackey U.S.G.S. QUAD Mackey

WATERSHED ECOREGION 25 31/25 11

(Please attach xerox copy of portion of U.S.G.S. quad showing location of subject field sites.)

Brief description of site relative to identifiable points on topographic map (e.g. adjacent river, highway, etc.):
SE¼ of SE¼ of Sec 35, T86N, R26W and NE¼ NE¼ of Sec 2 T85N R26W 3 miles north end

2 Reason for Inspection: 4 miles west of mackey.

- [x] NWI Photo Interpretation Field Reconnaissance
- [ ] NWI Draft Map Review
- [ ] Permit Review: Application # _____ (Agency) _____ Date of Notice _____
- [ ] HEP Analysis
- [ ] Other (specify) _____

3 Wetland Classification on NWI Map according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	517-105-1	517-105-2	
System	P	P	
Subsystem			
Class	EM	EM	
Subclass			
Water Regime	F	C	
Water Chemistry			
Special Modifiers	d	d	

4 In-Field Wetland Classification according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	517-105-1	517-105-2	
System	P	P	
Subsystem			
Class	EM	EM	
Subclass			
Water Regime	F	C	
Water Chemistry			
Special Modifiers	d	d	

5 Description of Wetland Plant Community

Site No.	517-105-1	517-105-2	
Dominance Type(s)	Emergence	Emergence	
Common Plants	Typha spp	Carex spp	
Less Common Plants			

CONTINUED ON REVERSE

6 **Associated Soils (from SCS Soil Survey, if available):** Palms muck, Harps loam

7 **Other Observations (water regime, wildlife, etc.):**

8 **Discussion of Wetland Photo-Interpretation:** The typical grey clumped signature will be pulled as PEM1Ed and the dark grey even toned signature will be pulled as PEM1d

WETLAND FIELD DATA SHEET

REPORT NO. 4 DATE 4 /20 /87

REPORTED BY: (Name) Tony Apa (Title) Wetland Resource Specialist (Agency) SDCFWRU

OTHER FIELD PARTY MEMBERS: Brian Smith, Ross Blank-Libra, Nick Rause

1 Location: 1:100,000 Map Waterloo SW

STATE Iowa COUNTY Boone

TOWN Mackey U.S.G.S. QUAD Mackey

WATERSHED ECOREGION 2531/2511

(Please attach xerox copy of portion of U.S.G.S. quad showing location of subject field sites.)

Brief description of site relative to identifiable points on topographic map (e.g. adjacent river, highway, etc.):

NW 1/4 Sec 10 T 85N R 26W. 6 miles west and 2 north of Mackey.

2 Reason for Inspection:

- [x] NWI Photo Interpretation Field Reconnaissance
- [ ] NWI Draft Map Review
- [ ] Permit Review: Application # _____ (Agency) _____ Date of Notice _____
- [ ] HEP Analysis
- [ ] Other (specify) _____

3 Wetland Classification on NWI Map according to U.S.F.W.S. System (1979).
(See NWI legend on separate sheet)

Site No.	517-105-3		
System	U		
Subsystem			
Class			
Subclass			
Water Regime			
Water Chemistry			
Special Modifiers			

4 In-Field Wetland Classification according to U.S.F.W.S. System (1979).
(See NWI legend on separate sheet)

Site No.	517-105-3		
System	U		
Subsystem			
Class			
Subclass			
Water Regime			
Water Chemistry			
Special Modifiers			

5 Description of Wetland Plant Community

Site No.	517-105-3		
Dominance Type(s)	Plowed ground		
Common Plants			
Less Common Plants			

CONTINUED ON REVERSE

6 **Associated Soils (from SCS Soil Survey, if available):** Palms muck

7 **Other Observations (water regime, wildlife, etc.):**

8 **Discussion of Wetland Photo-Interpretation:** This dark wet basin vegetation was found in the field to be extensively drained and historic

WETLAND FIELD DATA SHEET

REPORT NO. 5 DATE 4 / 20 / 87

REPORTED BY: (Name) Tony Apa (Title) Wetland Resource Specialist (Agency) SDCFWRU

OTHER FIELD PARTY MEMBERS: Brian Smith, Ross Blant-Libra, Nick Roose.

1 Location: 1:100,000 Map Waterloo SW

STATE Iowa COUNTY Webster

TOWN Fraser U.S.G.S. QUAD Fraser

WATERSHED ECOREGION 2531/2511

(Please attach xerox copy of portion of U.S.G.S. quad showing location of subject field sites.)

Brief description of site relative to identifiable points on topographic map (e.g. adjacent river, highway, etc.):
NE¼ NE¼, Sec 28 and NW¼ NW¼ of Sec 27, T86N, R27W 8 miles north of Fraser along the west side of the Des Moines River

2 Reason for Inspection:

- [x] NWI Photo Interpretation Field Reconnaissance
- [ ] NWI Draft Map Review
- [ ] Permit Review: Application # _____ (Agency) _____ Date of Notice _____
- [ ] HEP Analysis
- [ ] Other (specify) _____

3 Wetland Classification on NWI Map according to U.S.F.W.S. System (1979).
(See NWI legend on separate sheet)

Site No.	343-273-1		
System	P		
Subsystem			
Class	FO		
Subclass	1		
Water Regime	A		
Water Chemistry	#		
Special Modifiers			

4 In-Field Wetland Classification according to U.S.F.W.S. System (1979).
(See NWI legend on separate sheet)

Site No.	343-273-1		
System	P		
Subsystem			
Class	FO		
Subclass	1		
Water Regime	A		
Water Chemistry			
Special Modifiers			

5 Description of Wetland Plant Community

Site No.	343-273-1		
Dominance Type(s)	Trees		
Common Plants	Acer saccharinum		
	Salix spp.		
Rare Common Plants			

CONTINUED ON REVERSE

6 **Associated Soils (from SCS Soil Survey, if available):** Sandy alluvial land and Buckney fine sandy loam

7 **Other Observations (water regime, wildlife, etc.):**

8 **Discussion of Wetland Photo-interpretation:** The signature is medium reddish gray in the tree canopy and this will be mapped as PFO1A. The bright red tree canopy in this signature will also be mapped as PFO1A in this case.

WETLAND FIELD DATA SHEET

REPORT NO. 6 DATE 4/20/87

REPORTED BY: (Name) Tony Apa (Title) Wetland Resource Specialist (Agency) SJCFWRU

OTHER FIELD PARTY MEMBERS: Bacn Smith, Ross Blank-Libra, Nick Rouse.

1 Location: 1:100,000 Map Waterloo SW

STATE Iowa COUNTY Webster

TOWN Fraser U.S.G.S. QUAD Fraser

WATERSHED ECOREGION 2531/2511

(Please attach xerox copy of portion of U.S.G.S. quad showing location of subject field sites.)

Brief description of site relative to identifiable points on topographic map (e.g. adjacent river, highway, etc.):
NE¼ SW¼ Sec 27, T86N R27W, 7½ miles North of Fraser on the West side of the Des Moines River

2 Reason for Inspection:

- [x] NWI Photo Interpretation Field Reconnaissance
- [ ] NWI Draft Map Review
- [ ] Permit Review: Application # (Agency) Date of Notice
- [ ] HEP Analysis
- [ ] Other (specify)

3 Wetland Classification on NWI Map according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)				4 In-Field Wetland Classification according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)			
Site No.	343-273-2			Site No.	343-273-2		
System	P			System	P		
Subsystem				Subsystem			
Class	FO			Class	FO		
Subclass	1			Subclass	1		
Water Regime	A			Water Regime	A		
Water Chemistry				Water Chemistry			
Special Modifiers				Special Modifiers			

5 Description of Wetland Plant Community

Site No.	343-273-2		
Dominance Type(s)	Forested		
Common Plants	Ulmus americana		
	Acer saccharium		
	Celtis occidentalis		
	Gleditsia triacanthos		
Less Common Plants	Viola cucullata		
	Ranunculus sceleratus		

CONTINUED ON REVERSE

6 **Associated Soils (from SCS Soil Survey, if available):** Sandy alluvial land

7 **Other Observations (water regime, wildlife, etc.):**

8 **Discussion of Wetland Photo-Interpretation:** The grey signature interspersed within the red tree canopy will be called PFO1A

WETLAND FIELD DATA SHEET

REPORT NO. 7 DATE 4 / 20 / 87

REPORTED BY: (Name) Tony Apa (Title) Wetland Resource Specialist (Agency) SDCFWRU

OTHER FIELD PARTY MEMBERS: Brian Smith, Ross Blank-Libra, Nick Rouse

1 Location: 1:100,000 Map Waterloo SW

STATE Iowa COUNTY Boone

TOWN Fraser U.S.G.S. QUAD Fraser

WATERSHED ECOREGION 2531/2511

(Please attach xerox copy of portion of U.S.G.S. quad showing location of subject field sites.)

Brief description of site relative to identifiable points on topographic map (e.g. adjacent river, highway, etc.):

SE¼ of Sec 34, T85N, R27W Located across the Des Moines River from Fraser

2 Reason for Inspection:

- [x] NWI Photo Interpretation Field Reconnaissance
- [ ] NWI Draft Map Review
- [ ] Permit Review: Application # (Agency) Date of Notice
- [ ] HEP Analysis
- [ ] Other (specify)

3 Wetland Classification on NWI Map according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	343-271-1	343-271-2	
System	R	L	
Subsystem	2	1	
Class	UB	UB	
Subclass			
Water Regime	H	H	
Water Chemistry			
Special Modifiers		h	

4 In-Field Wetland Classification according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	343-271	343-271-2	
System	R	L	
Subsystem	2	1	
Class	UB	UB	
Subclass			
Water Regime	H	H	
Water Chemistry			
Special Modifiers		h	

5 Description of Wetland Plant Community

Site No.	343-271-1	343-271-2	
Dominance Type(s)	Open water	Open water	
Common Plants			
Less Common Plants			

CONTINUED ON REVERSE

6 **Associated Soils (from SCS Soil Survey, if available):**

7 **Other Observations (water regime, wildlife, etc.):**

8 **Discussion of Wetland Photo-Interpretation:** this check site is located at the spillway elevation for the Saylorville Lake Reservoir at the point where the Des Moines River empties into the lake. The Riverine system is used on elevations up the river and the Lacustrine system with the impoundment modifier will be used to the dam.

WETLAND FIELD DATA SHEET

REPORT NO. 8 DATE 4/20/87

REPORTED BY: (Name) Tony Apa (Title) Wetland Resource Specialist (Agency) SDCFCWU

OTHER FIELD PARTY MEMBERS: Brian Smith, Ross Blank-Libre, Nick Rouse

1 Location: 1:100,000 Map Waterloo SW

STATE Iowa COUNTY Boone

TOWN Boone U.S.G.S. QUAD Boone West

WATERSHED ECOREGION 2531/2511

(Please attach xerox copy of portion of U.S.G.S. quad showing location of subject field sites.)

Brief description of site relative to identifiable points on topographic map (e.g. adjacent river, highway, etc.):

SE ¼ of Sec 7, T84N R26W. 2 miles south and 2 miles west of Boone.

2 Reason for Inspection:

- [x] NWI Photo Interpretation Field Reconnaissance
- [ ] NWI Draft Map Review
- [ ] Permit Review: Application # _____ (Agency) _____ Date of Notice _____
- [ ] HEP Analysis
- [ ] Other (specify) _____

3 Wetland Classification on NWI Map according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	343-269-1	343-269-2	
System	P	P	
Subsystem			
Class	EM	EM	
Subclass			
Water Regime	A	C	
Water Chemistry			
Special Modifiers	h	h	

4 In-Field Wetland Classification according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	343-269-1	343-269-2
System	U	U
Subsystem		
Class		
Subclass		
Water Regime		
Water Chemistry		
Special Modifiers		

5 Description of Wetland Plant Community

Site No.	343-269-1	343-269-2
Dominance Type(s)	None identified (ag land)	None identified (ag land)
Common Plants		
Less Common Plants		

CONTINUED ON REVERSE

7 Other Observations (water regime, wildlife, etc.):

8 Discussion of Wetland Photo-Interpretation: The area is flooded on the photo from dam flooding, but while in the field this area was found to be cultivated and non depressional which classifies it as upland. without observing it in the field it was classified as PEMHb and PEMCh.

WETLAND FIELD DATA SHEET

REPORT NO. 9 DATE 4 / 21 / 87

REPORTED BY: (Name) Tony Apa (Title) Wetland Resource Specialist (Agency) SDCFWRU

OTHER FIELD PARTY MEMBERS: Brian Smith, Ross Blank-Libra, Nick Rowse

1 Location: 1:100,000 Map Waterloo SW

STATE Iowa COUNTY Story

TOWN Ames U.S.G.S. QUAD Ames East

WATERSHED ECOREGION 2531/2511

(Please attach xerox copy of portion of U.S.G.S. quad showing location of subject field sites.)

Brief description of site relative to identifiable points on topographic map (e.g. adjacent river, highway, etc.):

SW¼, SW¼ Sec 1, T84N, R24W. 3 miles north on 69 and 1 mile east near the

2 Reason for Inspection: Iowa St Univ. Experimental Farm.

- ☐ NWI Photo Interpretation Field Reconnaissance
- ☐ NWI Draft Map Review
- ☐ Permit Review: Application # _____ (Agency) _____ Date of Notice _____
- ☐ HEP Analysis
- ☐ Other (specify) _____

3 Wetland Classification on NWI Map according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	343-25-1		
System	v		
Subsystem			
Class			
Subclass			
Water Regime			
Water Chemistry			
Special Modifiers			

4 In-Field Wetland Classification according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	343-25-1		
System	v		
Subsystem			
Class			
Subclass			
Water Regime			
Water Chemistry			
Special Modifiers			

5 Description of Wetland Plant Community

Site No.	343-25-1		
Dominance Type(s)	Plowed ground		
Common Plants			
Less Common Plants			

CONTINUED ON REVERSE

6 **Associated Soils (from SCS Soil Survey, if available):**

7 **Other Observations (water regime, wildlife, etc.):**

8 **Discussion of Wetland Photo-Interpretation:** This ~~[illegible]~~ wet signature along the road would typically be called a PEM1 but when visited in the field it was found to be historic.

WETLAND FIELD DATA SHEET

REPORT NO. 10 DATE 4 / 21 / 87

REPORTED BY: (Name) Tony Apa (Title) Wetland Resource Specialist (Agency) SIDC FWRD

OTHER FIELD PARTY MEMBERS: Brian Smith, Ross Blank-Libra, Nick Rouse

1. Location: 1:100,000 Map Waterloo SW

STATE Iowa COUNTY Story

TOWN Story City U.S.G.S. QUAD Story City

WATERSHED ECOREGION 2531/2511

(Please attach xerox copy of portion of U.S.G.S. quad showing location of subject field sites.)

Brief description of site relative to identifiable points on topographic map (e.g. adjacent river, highway, etc.):
SW ¼, SE ¼ of Sec. 25 T85N, R24W, 3 miles south and ½ mile east of Story City

2. Reason for Inspection:

- ☐ NWI Photo Interpretation Field Reconnaissance
- ☐ NWI Draft Map Review
- ☐ Permit Review: Application # _____ (Agency) _____ Date of Notice _____
- ☐ HEP Analysis
- ☐ Other (specify) _____

3. Wetland Classification on NWI Map according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)				4. In-Field Wetland Classification according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)			
Site No.	343-25-2			Site No.	343-25-2		
System	P			System	P		
Subsystem				Subsystem			
Class	EM			Class	EM		
Subclass				Subclass			
Water Regime	A			Water Regime	C		
Water Chemistry				Water Chemistry			
Special Modifiers				Special Modifiers			

5. Description of Wetland Plant Community

Site No.	343-25-2		
Dominance Type(s)	Emergence		
Common Plants	Typha spp.		
Less Common Plants			

6 **Associated Soils (from SCS Soil Survey, if available):**

7 **Other Observations (water regime, wildlife, etc.):**

8 **Discussion of Wetland Photo-Interpretation:** This wet signature in a plowed field would typically be called a PEM1A but in the field we found it exhibited seasonal characteristics.

WETLAND FIELD DATA SHEET

REPORT NO. 11 DATE 4/21/87

REPORTED BY: (Name) Tony Apa (Title) Wetland Resource Specialist (Agency) SDC FWRU

OTHER FIELD PARTY MEMBERS: Brian Smith, Ross Blank-Libra, Nick Rouse

1 Location: 1:100,000 Map Waterloo SW

STATE Iowa COUNTY Story

TOWN Story City U.S.G.S. QUAD Story City

WATERSHED ECOREGION 2531/2511

(Please attach xerox copy of portion of U.S.G.S. quad showing location of subject field sites.)

Brief description of site relative to identifiable points on topographic map (e.g. adjacent river, highway, etc.):

W½, NW¼ of Sec 26, T85N, R24W. 2 miles south and 1 mile west of Story City

2 Reason for Inspection: An oxbow along the Keigley Branch River

- [x] NWI Photo Interpretation Field Reconnaissance
- [ ] NWI Draft Map Review
- [ ] Permit Review: Application # _____ (Agency) _____ Date of Notice _____
- [ ] HEP Analysis
- [ ] Other (specify) _____

3 Wetland Classification on NWI Map according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	343-25-3		
System	P		
Subsystem			
Class	EM		
Subclass			
Water Regime	C		
Water Chemistry			
Special Modifiers			

4 In-Field Wetland Classification according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	343-25-3		
System	P		
Subsystem			
Class	EM		
Subclass			
Water Regime	C		
Water Chemistry			
Special Modifiers			

5 Description of Wetland Plant Community

Site No.	343-25-3		
Dominance Type(s)	Emergence		
Common Plants	Eleocharis spp		
	Typha spp		
	Polygonum spp		
Less Common Plants	Lemna spp		

CONTINUED ON REVERSE

6 **Associated Soils (from SCS Soil Survey, if available):**

7 **Other Observations (water regime, wildlife, etc.):**

8 **Discussion of Wetland Photo-Interpretation:** This dark grey wet signature is typical of oxbow signatures along rivers.

WETLAND FIELD DATA SHEET

REPORT NO. 12 DATE 4 / 21 / 87

REPORTED BY: (Name) Tony Apa (Title) Wetland Resource Specialist (Agency) SDCFWRU

OTHER FIELD PARTY MEMBERS: Brian Smith, Ross Blank-Libra, Nick Rowse

1 Location: 1:100,000 Map Waterloo SW

STATE Iowa COUNTY Hamilton

TOWN Ellsworth U.S.G.S. QUAD Ellsworth

WATERSHED ECOREGION 2531/2511

(Please attach xerox copy of portion of U.S.G.S. quad showing location of subject field sites.)

Brief description of site relative to identifiable points on topographic map (e.g. adjacent river, highway, etc.):

NW 1/4, SW 1/4 of Sec 36 T87N, R24W. 1 mile west on I75 and 3/4 mile south from Ellsworth along the South Skunk River.

2 Reason for Inspection:

- [x] NWI Photo Interpretation Field Reconnaissance
- [ ] NWI Draft Map Review
- [ ] Permit Review: Application # _____ (Agency) _____ Date of Notice _____
- [ ] HEP Analysis
- [ ] Other (specify) _____

3 Wetland Classification on NWI Map according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	343-21-1		
System	P		
Subsystem			
Class	EM		
Subclass			
Water Regime	B		
Water Chemistry			
Special Modifiers			

4 In-Field Wetland Classification according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	343-21-1		
System	P		
Subsystem			
Class	EM		
Subclass			
Water Regime	B		
Water Chemistry			
Special Modifiers			

5 Description of Wetland Plant Community

Site No.	343-21-1		
Dominance Type(s)	Emergent		
Common Plants	Poa spp.		
	Carex spp.		
	Rumex spp.		
Less Common Plants			

6 **Associated Soils (from SCS Soil Survey, if available):**

7 **Other Observations (water regime, wildlife, etc.):**

8 **Discussion of Wetland Photo-interpretation:** This bright red signature in the opening of the tree canopy along the river will be pulled as a PEMB.

WETLAND FIELD DATA SHEET

REPORT NO. 13 DATE 4 /21/87

REPORTED BY: (Name) Tony Apa (Title) Wetland Resource Specialist (Agency) SDCFWPC

OTHER FIELD PARTY MEMBERS: Brian Smith, Ross Blank-Libra, Nick Rouse

1 Location: 1:100,000 Map Waterloo SW

STATE Iowa COUNTY Hamilton

TOWN Jewell U.S.G.S. QUAD Ames NW

WATERSHED ECOREGION 25J1/25I1

(Please attach xerox copy of portion of U.S.G.S. quad showing location of subject field sites.)

Brief description of site relative to identifiable points on topographic map (e.g. adjacent river, highway, etc.):

NW¼ NW¼ of Sec 28, T86N, R24W. 5 miles south of Jewell on 69 and 1 mile west

2 Reason for Inspection:

- [x] NWI Photo Interpretation Field Reconnaissance
- [ ] NWI Draft Map Review
- [ ] Permit Review: Application # (Agency) Date of Notice
- [ ] HEP Analysis
- [ ] Other (specify)

3 Wetland Classification on NWI Map according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	343-136-1		
System	P		
Subsystem			
Class	EM		
Subclass			
Water Regime	C		
Water Chemistry			
Special Modifiers	d		

4 In-Field Wetland Classification according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	343-136-1		
System	V		
Subsystem			
Class			
Subclass			
Water Regime			
Water Chemistry			
Special Modifiers			

5 Description of Wetland Plant Community

Site No.	343-136-1		
Dominance Type(s)	Plowed ground		
Common Plants			
Less Common Plants			

6 **Associated Soils (from SCS Soil Survey, if available):**

7 **Other Observations (water regime, wildlife, etc.):**

8 **Discussion of Wetland Photo-Interpretation:** This signature, a mottled gray, would classically be pulled as a PEM1C but after field investigation it was found to be drained, plowed and non-existant and will be called upland.

WETLAND FIELD DATA SHEET

REPORT NO. 14 DATE 4/21/87

REPORTED BY: (Name) Tony Apa (Title) Wetland Resource Specialist (Agency) SDCFWRU

OTHER FIELD PARTY MEMBERS: Brian Smith, Ross Blank-Libra, Nick Rouse

1 Location: 1:100,000 Map Waterloo SW

STATE Iowa COUNTY Hardin

TOWN Eagle City U.S.G.S. QUAD Owasa

WATERSHED _____ ECOREGION 2531/2511

(Please attach xerox copy of portion of U.S.G.S. quad showing location of subject field sites.)

Brief description of site relative to identifiable points on topographic map (e.g. adjacent river, highway, etc.):

SW¼ NE¼, Sec 31, T 89N, R 19W, 1/2 mile east and 3/4 mile north of Eagle City along the north side of the Iowa River.

2 Reason for Inspection:

- [x] NWI Photo Interpretation Field Reconnaissance
- [ ] NWI Draft Map Review
- [ ] Permit Review: Application # _____ (Agency) _____ Date of Notice _____
- [ ] HEP Analysis
- [ ] Other (specify) _____

3 Wetland Classification on NWI Map according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	347-17-1		
System	P		
Subsystem			
Class	SS		
Subclass	1		
Water Regime	C		
Water Chemistry	[illegible]		
Special Modifiers			

4 In-Field Wetland Classification according to U.S.F.W.S. System (1979). (See NWI legend on separate sheet)

Site No.	347-17-1		
System	P		
Subsystem			
Class	SS		
Subclass	1		
Water Regime	C		
Water Chemistry			
Special Modifiers			

5 Description of Wetland Plant Community

Site No.	347-17-1		
Dominance Type(s)	Shrubs		
Common Plants	Salix spp.		
Less Common Plants			

CONTINUED ON REVERSE

6 **Associated Soils (from SCS Soil Survey, if available):**

7 **Other Observations (water regime, wildlife, etc.):**

8 **Discussion of Wetland Photo-Interpretation:** This rough textured pink and grey signature will be ruled as a scrub-shrub wetland.