OPTIONAL FORM NO. 10 MAY 1962 EDITION GSA FPMR (41 CFR) 101-11.6 UNITED STATES GOVERNMENT

Memorandum

TO

Homer

DATE: August 16, 1968

FROM

Merrill

SUBJECT:

Upland vegetation transects

I worked up some forms and summarized the data for 1960 to 1968 as well as I could. I can't remember if we made measurements fairly close during the first years. Without these and without measurements now for comparison it is difficult to say whether some stands are spreading or decreasing. Some obvious changes have been summarized.

It is obvious (and the records indicate) that we had trouble identifying some of the grasses in years and sites where no seed heads formed. Some of the most conspicuous errors were for quackgrass and western wheat and for brome and quack. I believe the 1968 identifications were mostly OK for the most common grasses. Some time we should probably go back and correct these errors where possible.

Best regards.

U.S. CEPARTMENT OF THE Berges of Sport Fisherian & S. RECEIVED

AUG 17 1968

DES LACS

Merrill

Merrill Hammond



There has been obvious mis-identification of grasses; e.g., quack grass and western wheat confused; sometimes brome and quack grass were confused.

Some field strips were reseeded to grass/alfalfa mixtures and some were left unseeded when retired.

In the seeded strips:

Brome was generally well established and has maintained fairly constant densities.

Alfalfa was generally well established and has maintained fairly constant densities.

Slender wheat decreased in most stands and nearly disappeared from some.

Crested wheat appears to have maintained fairly constant densities or to have increased from the original seed catch.

Where quack was common or dominant early in the field history there appears to have been little change. In general quack grass has not taken over significant portions of these fields.

Bluegrass (Poa palustris and Poa praetensis) has increased in nearly all segments.

There has been some increase in occurrence of rose and buckbrush, but neither are uniformly distributed through the samples yet.

Native forbs are probably increasing and true weeds decreasing. The records for 1960-64 were not available, except those showing dominant plants.

In <u>unseeded</u> strips:

Bluegrass and brome are increasing.

Quackgrass and brome became common or dominant by 1960 and have maintained their early densities.

Suggestions for 1970 survey: Examine field sheets for 1960 to 1964 to see if fairly precise measurements of species distribution were made. Attempt to make precise measurements of "zones" in 1970 to learn whether plant colonies are spreading and to establish a base for future measurements.

WILDLIFE. A brood of 3/4 grown sharptailed grouse was flushed from Unit A-12.

These fields all look good for both nesting and brood use.

Des Lacs Upland Transects

Crop History

- A-6 (33503 to 33502). Retired after wheat in 1957. No record of reseeding. Probably summerfallowed.
- A-6 (33504 to 33506). Retired after flax crop in 1956. Reseeding probable but unrecorded. This strip (field strip No. 14) was in a brome/crested wheat/ alfalfa mixture, 1960 and after.
- A-7 (33507 to 33509). Strip (10) farmed 1955; wheat 1957; idle 1958. No reseeding thereafter.
- A-7 (33509 to 33511). Strip (11) flax with alfalfa and brome seeded in 1956. Idle in brome/alfalfa 1957 on.
- A-12 (33513 to 33512). Was in barley in 1955. Retired prior to 1958. No other records. Field strip No. 3.
- A-12 (33512 to 33515). In wheat in 1955. Retired prior to 1958. No other records. Field strip No. 4.

Survey dates:

1968 - August 13. Bradley, Hammond, Bill Bair.

Ag. Unit No.: A-6
Field Strip No.: 13

Il seedlings only

Des Lacs Upland Transects

Transect No.: 33503 to

8/13 Segment No.: A

Legal Description: MI	1 Soc	6 77 621	NT DARLT		9/13		o o bin out		A
Legal Description: NW Year	11060	1 1962	1 106h	1966] 1968	1 1970	1 1972	1974	1976
Segment length	1-700	1702	1704	226	226	1740	1712	1714	1 1710
	+	-	2				 		-
bluegrass	+		C	C	D	-			-
brome	-	-		F	C		-		-
crested wheat	-					-			-
quack	D	D	D	D	D	-			_
slender wheat									
western wheat	-								-
alfalfa						-			
aster	-								-
	-								-
aster, yellow bindweed									_
				C	C				
buckwheat	-					-			
bull thistle				F	F				
Canada thistle									
dandelion									
dock									1 1
evening primrose									
flixweed									
foxtail									
germander									1
goatsbeard	C			C	F				
goldenrod									
gumweed									
horseweed									77777
lambs quarters									
lambs quarters lettuce, blue		C		C	C				
lettuce, yellow									
marsh elder									
nettle									1
pennycress									
peppergrass									
prairie cone flower				F	F				
sagewort, fringed			-	1	1.			-	
sagewort, fringed sagewort, long-leaf									
silverleaf							-		
skeletonweed									
sow thistle				C	F				
spikeweed				0	P		-	-	
sunflower			-			-	-		
sweet-clover, white	-			7	1/				
sweet-clover, white			-	D	D				
tumble mustard				D		-			
			-	-	-		-		
vetch					F		-		
wild licorice			-	-					
wild morning-glory							-		
yarrow									
buckbrush				F	F				
rose			C	C	F				
Russian olive				F	F				
			-	-					
	-	-	-						THE REAL PROPERTY.

Ag. Unit No.: A-6
Field Strip No.: 13

11 Seedlings only

Transect No.:33502

Segment No.: B Legal Description: NW Sec. 6 T163N R88W Year 1960 1962 1966 1968 1970 1972 1974 1964 Segment length 331 331 bluegrass D D D D F brome crested wheat quack D D D D D slender wheat western wheat alfalfa aster aster, yellow bindweed buckwheat bull thistle F Canada thistle dandelion dock evening primrose F flixweed foxtail germander goatsbeard C C goldenrod gumweed horseweed lambs quarters lettuce, blue C C lettuce, yellow marsh elder nettle pennycress peppergrass prairie cone flower F F sagewort, fringed sagewort, long-leaf F F F silverleaf skeletonweed sow thistle C C spikeweed sunflower sweet-clover, white F sweet-clover, yellow tumble mustard vetch F wild licorice wild morning-glory yarrow buckbrush C C C C rose C Russian olive

Ag. Unit No.: A-6 Field Strip No.: 13

11 Seedlings only

Segment No.: C Legal Description: NW Sec. 6 T163N R88W Year 1960 | 1962 | 1964 1966 1968 1970 1972 1974 Segment length 137 137 bluegrass C brome C C crested wheat quack D D D D slender wheat western wheat alfalfa aster aster, yellow bindweed buckwheat bull thistle Canada thistle dandelion dock F F evening primrose flixweed foxtail germander goatsbeard C C goldenrod gumweed horseweed lambs quarters lettuce, blue C F lettuce, yellow marsh elder nettle pennycress peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf skeletonweed sow thistle F F spikeweed sunflower sweet-clover, white C sweet-clover, yellow D tumble mustard vetch F wild licorice wild morning-glory yarrow F buckbrush C rose Russian olive

Ag. Unit No.: A-6

Transect No.:33502

Field Strip No.: 13 Segment No.: D Legal Description: NW Sec. 6 T163N R88W 1960 | 1962 1966 1968 1970 1974 Segment length bluegrass brome D D D crested wheat quack slender wheat western wheat alfalfa aster aster, yellow bindweed buckwheat bull thistle Canada thistle dandelion dock evening primrose flixweed foxtail germander goatsbeard goldenrod gumweed horseweed lambs quarters lettuce, blue lettuce, yellow marsh elder nettle pennycress peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf skeletonweed sow thistle spikeweed sunflower sweet-clover, white sweet-clover, yellow tumble mustard vetch wild licorice wild morning-glory yarrow buckbrush rose Russian olive

33504 to

Ag. Unit No.: A-6

Field Strip No.: 14

Transect No.: 33506 Segment No.: A

8/13 Legal Description: NW Sec. 6 T163N R88W 1972 1974 1960 | 1962 1966 1968 1970 1 Segment length 150 150 bluegrass brome D D D crested wheat D D D quack slender wheat western wheat alfalfa D D aster aster, yellow bindweed buckwheat bull thistle Canada thistle dandelion dock evening primrose flixweed foxtail germander goatsbeard goldenrod gumweed horseweed lambs quarters lettuce, blue lettuce, yellow marsh elder nettle pennycress peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf skeletonweed sow thistle spikeweed sunflower sweet-clover, white sweet-clover, yellow tumble mustard vetch wild licorice wild morning-glory yarrow buckbrush rose Russian olive

Ag. Unit No.: A-6
Field Strip No.: 1)

Transect No.: 33506
Segment No.: B

Segment No.: B Legal Description: NW Sec. 6 T163N R88W Year 1960 1962 1964 1968 1972 1974 1976 1970 1966 Segment length 505 505 bluegrass brome D D crested wheat D C D D D quack slender wheat western wheat alfalfa D D D D D aster aster, yellow bindweed buckwheat bull thistle Canada thistle dandelion dock evening primrose flixweed foxtail germander goatsbeard goldenrod gumweed horseweed lambs quarters lettuce, blue lettuce, yellow marsh elder nettle pennycress peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf skeletonweed sow thistle spikeweed sunflower sweet-clover, white sweet-clover, yellow tumble mustard vetch wild licorice wild morning-glory yarrow buckbrush rose Russian olive

Ag. Unit No.: A-6

Transect No.:33506

Field Strip No.: 11 Field Strip No. . ______ Sec. Legal Description: NW Sec. ______ 1960 Segment No.: C 8/13 6 T163N R88W 1970 1968 1972 1974 1966 1976 Segment length 25 bluegrass brome D crested wheat quack slender wheat western wheat alfalfa aster aster, yellow bindweed buckwheat bull thistle Canada thistle dandelion dock evening primrose flixweed foxtail germander goatsbeard goldenrod gumweed horseweed lambs quarters lettuce, blue lettuce, yellow marsh elder nettle pennycress peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf skeletonweed sow thistle spikeweed sunflower sweet-clover, white sweet-clover, yellow tumble mustard vetch wild licorice wild morning-glory yarrow buckbrush rose Russian olive

Des Lacs Upland Transects

33507 to

Date Checked Ag. Unit No.: A-7 Transect No.: 33509 Field Strip No.: 10 Segment No.: A

Legal Description: SW Sec. 21 T162N R88W 1968 Year 1960 1962 | 1964 1974 1966 Segment length 97 bluegrass brome D D C C crested wheat quack D D D slender wheat D western wheat alfalfa aster aster, yellow bindweed buckwheat bull thistle Canada thistle dandelion dock evening primrose flixweed F foxtail germander goatsbeard F goldenrod gumweed horseweed lambs quarters lettuce, blue lettuce, yellow marsh elder C nettle pennycress peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf skeletonweed sow thistle spikeweed sunflower F sweet-clover, white sweet-clover, yellow tumble mustard vetch wild licorice wild morning-glory yarrow buckbrush rose Russian olive

Transect No.: 33509 Segment No.: B Ag. Unit No.: A-7
Field Strip No.: 10

Field Strip No.: 10	. D . Tree	07 07 6	ON DOO	T.T	8/13 Segment No.: B						
Legal Description:	SW4 Sec	21 TIC	2N ROC	W		1 2000	1 3000	1000	17076		
Year	1960	1962	1964	1966	1968	1 1970	1972	1974	1976		
Segment length				97	97				_		
bluegrass		C	C	C	?						
brome			C		F						
crested wheat											
quack		D		D	D						
slender wheat											
western wheat											
alfalfa											
aster					F						
aster, yellow											
bindweed				F	F						
buckwheat											
bull thistle											
Canada thistle											
dandelion											
dock				F	F						
evening primrose											
flixweed					F						
foxtail											
germander											
goatsbeard				F	F						
goldenrod											
gumweed									7		
horseweed											
lambs quarters											
lettuce, blue				F	F						
lettuce, yellow											
marsh elder											
nettle											
pennycress								1 111			
peppergrass											
prairie cone flower											
sagewort, fringed								-			
sagewort, long-leaf											
silverleaf											
skeletonweed					F						
sow thistle											
spikeweed											
sunflower											
sweet-clover, white											
sweet-clover, yellow											
tumble mustard	-										
vetch			-					-			
wild licorice											
wild morning-glory											
yarrow											
buckbrush					F						
rose											
Russian olive											
						1					
									The state of the s		

33507 to Transect No.: 33509

Segment No.: C Ag. Unit No.: A-7 Field Strip No.: 10 T162N R88W 1974 Legal Description: SW Sec. 21 1972 1970 1968 1966 1962 | 1964 1960 Year 192 Segment length D C C bluegrass F C? brome crested wheat D D D D quack slender wheat western wheat alfalfa aster aster, yellow bindweed F F buckwheat bull thistle F Canada thistle dandelion F F dock evening primrose flixweed foxtail F germander goatsbeard F F goldenrod gumweed horseweed lambs quarters lettuce, blue C lettuce, yellow F marsh elder nettle pennycress peppergrass prairie cone flower sagewort, fringed C C sagewort, long-leaf F F silverleaf F F skeletonweed F sow thistle spikeweed sunflower sweet-clover, white sweet-clover, yellow tumble mustard vetch wild licorice wild morning-glory yarrow buckbrush rose C F Russian olive 11 Seedlings

Ag. Unit No.: A-7 Field Strip No.: 10

. Il seedlings

Transect No.: 33509 Segment No.: D

Legal Description: SW4 Sec. 21 T162N R88W 1968 1970 1972 1974 1976 1960 1962 11964 1966 Year Segment length 299 299 bluegrass D D C D brome crested wheat C C quack C D slender wheat western wheat C F alfalfa F aster aster, yellow bindweed buckwheat bull thistle Canada thistle dandelion dock evening primrose flixweed foxtail F germander goatsbeard F F goldenrod gumweed horseweed lambs quarters lettuce, blue F F lettuce, yellow marsh elder nettle pennycress peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf skeletonweed F F sow thistle spikeweed sunflower sweet-clover, white sweet-clover, yellow tumble mustard vetch wild licorice wild morning-glory yarrow buckbrush rose Russian olive

Date Checked

Des Lacs Upland Transects

33509 to

Transect No.: 33511

Ag. Unit No.: A-7 Field Strip No.: 11
Legal Description: SW Sec. 21 T162N R88W Segment No.: A

Legal Description: SW	Sec.	21 Tl	62N R88	3W	713			The second	
Year	1960	1962	1964	1966	1968	1 1970	1 1972	1974	1976
Segment length				645	645				
bluegrass						-			-
brome	D	D	D	D	D				-
crested wheat	-	1	1	D	D				-
quack	C	D	-	-	-				-
slender wheat	-	D	-	-					-
western wheat	_	-	-		-				-
western wheat		-							-
1014									
alfalfa	D	D	D	D	D				
aster									
aster, yellow									
bindweed									
buckwheat									
bull thistle									
Canada thistle									
dandelion						10			
dock									
evening primrose							7, 17, 17, 1		
flixweed									
foxtail								Lui A I	
germander									
goatsbeard									-
goldenrod				F	F				
gumweed				- I	F				
horseweed									
lambs quarters									
lettuce, blue									
lettuce, yellow									
marsh elder									
nettle							-		
pennycress									
peppergrass									
prairie cone flower									
sagewort, fringed				F	F				
sagewort, long-leaf									
silverleaf									
skeletonweed				F	F				
sow thistle									
spikeweed									
sunflower									
sweet-clover, white									
sweet-clover, yellow									
tumble mustard									
vetch									
wild licorice									
wild morning-glory									
yarrow									
buckbrush			-	-					
The state of the s	-				-				
rose	-	-						-	
Russian olive					-				
									-
170 70 1 7001	0001	7.		1	1	1		1	
17falfa in 7061.	= JAAI	112000	Amanata	mr mose	mamant	0			

Date Checked

Ag. Unit No.: A-21/2

Field Strip No.: 3

33513 to

Transect No.: 33512 Segment No.: A

Field Strip No.: 3					8/13		Segment No.: A			
Legal Description: S	E4 Sec	. 32 Tl							-	
Year	1960	1962	1964	1966	1968	1 1970	1 1972	1974	1976	
Segment length				159	159					
bluegrass				C	C					
brome .		D			D					
crested wheat										
quack			D	C	F					
slender wheat		C	C	C	?					
western wheat		C		C	D					
alfalfa				F	C					
aster					F					
aster, yellow										
bindweed					C					
buckwheat										
bull thistle										
Canada thistle										
dandelion				F	F					
dock									-	
evening primrose				F						
flixweed	C									
foxtail										
germander										
goatsbeard				C	F					
goldenrod										
gumweed										
horseweed										
lambs quarters										
lettuce, blue	C									
lettuce, yellow										
marsh elder										
nettle										
pennycress										
peppergrass										
prairie cone flower										
sagewort, fringed				F	C					
sagewort, long-leaf				F	F					
silverleaf										
skeletonweed										
sow thistle										
spikeweed										
sunflower	C			F						
sweet-clover, white										
sweet-clover, yellow	MARIE DAY			F	F					
tumble mustard										
vetch			1.7	F						
wild licorice								**		
wild morning-glory				F						
yarrow									-	
buckbrush										
rose			1							
Russian olive			1			A Table				
	C									
Wild oats	0		-							
							-			

Ag. Unit No.: A- 12
Field Strip No.: 3

Transect No.: 33513 to
Segment No.: B

Field Strip No.: 3			Segment No.: B						
Legal Description:	SE4 Sec	. 32 T	160N R	88W	8/13				
Year	1960	1962	1964	1966	1968	1 1970	1 1972	1974	1976
Segment length				11),	114				
bluegrass	1			F	F				
brome .				F	F				
crested wheat				-	1				
quack	1	D	D	D	D				
slender wheat	C	C	D		1				
western wheat	D	C	D						
William Co.	1								
alfalfa	-				-				
aster	-		-	Til	77				
aster, yellow	-			F	F		-		
bindweed	-								_
buckwheat	-								
bull thistle									
Canada thistle	-								
dandelion	-								
dock	-			F	F				
				F					
evening primrose				F					
flixweed									
foxtail	-								
germander									
goatsbeard				F	F				
goldenrod									
gumweed									10.10
horseweed									
lambs quarters									
lettuce, blue									
lettuce, yellow			=		F				
marsh elder									
nettle									
pennycress									
peppergrass									
prairie cone flower									
sagewort, fringed					TETRANIA				
sagewort, long-leaf				F					
silverleaf									
skeletonweed		1177							
sow thistle									
spikeweed									
sunflower				F	F				
sweet-clover, white			1 1 2 1	M. 1.9 -					1
sweet-clover, yellow									
tumble mustard									
vetch	C				F				
wild licorice									
wild morning-glory									
yarrow				F	F				
buckbrush									
rose				F			-		
Russian olive			-	-					
Teucrium (Germander)					F				
- Carmanaer,		-	-		-	755	-	3	
			-					-	
A CONTRACTOR OF THE PARTY OF TH			-						

Ag. Unit No.: A-2 12 Field Strip No.: 3 Transect No.: 33512 Segment No.: C

ield Strip No.: 3 Sec. 32 T160N R88W 8/3

Legal Description:	STIL SOC	. 32 T	TAON P	8814	8/13		Degmen		
Year	1040	1962	I ZOCI	L Z OZZ		1 7070	1 1972	1974	1976
	1900	1305	1964		1968	1970	1912	1914	17910
Segment length	-			20	20				
bluegrass					D				
brome					C				
crested wheat									
quack		D	- 5						
slender wheat	C		D	D					
western wheat	D	1		D	D	-			_
	-	-	-	-	-	-			-
alfalfa	-		-	-	-	_			
aster	-	+	-	-	773	-			-
	-		-	-	F				
aster, yellow bindweed	-	-							-
	-	-							
buckwheat									
bull thistle									
Canada thistle									
dandelion					C				
dock									
evening primrose									
flixweed									
foxtail	-								
germander									
goatsbeard	-								
goldenrod									
gumweed	-								
horseweed									
lambs quarters									
lettuce, blue									
lettuce, yellow					F				
marsh elder									
nettle									
pennycress									
peppergrass									
prairie cone flower									
sagewort, fringed									
sagewort, long-leaf									
silverleaf									
skeletonweed									
sow thistle							-		
spikeweed									
sunflower							-		
sweet-clover, white							-		
sweet-clover, white				-				-	
tumble mustard									
				-	77				
vetch					F				
wild licorice									
wild morning-glory									
yarrow									
buckbrush									
rose									
Russian olive									
Teucrium (Germander)			-		F				
Teucrium (Germander)	-	-			- P		-	-	
							-		
			-		-				

Transect No.: 33512 Ag. Unit No.: A-2 12 Field Strip No.: 3 Segment No.: D SE Sec. 32 T160N R88W Legal Description: Year 1960 1962 11964 1968 1970 | 1972 1974 1976 1966 Segment length 46 46 bluegrass F D brome F crested wheat quack D slender wheat D D D western wheat D alfalfa aster F aster, yellow bindweed F buckwheat bull thistle Canada thistle dandelion C dock F evening primrose F flixweed foxtail germander goatsbeard F F goldenrod gumweed horseweed lambs quarters lettuce, blue lettuce, yellow D F marsh elder nettle pennycress peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf F silverleaf skeletonweed sow thistle spikeweed sunflower F sweet-clover, white sweet-clover, yellow tumble mustard vetch wild licorice wild morning-glory F yarrow buckbrush rose F C Russian olive

Ag. Unit No.: A-2 /2 Transect No.:33512 Field Strip No.: 3 Segment No.: E Legal Description: SE4 Sec. 32 T160N R88W 1962 1970 1972 1974 1960 1966 1976 Year 1964 1968 Segment length 207 207 bluegrass F C brome F crested wheat F F quack slender wheat D D D western wheat D D alfalfa F F aster F F aster, yellow bindweed F buckwheat bull thistle Canada thistle dandelion F C dock evening primrose flixweed F foxtail germander goatsbeard F C goldenrod gumweed F C horseweed F lambs quarters lettuce, blue lettuce, yellow marsh elder nettle pennycress C peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf skeletonweed sow thistle spikeweed sunflower sweet-clover, white F sweet-clover, yellow tumble mustard vetch wild licorice wild morning-glory yarrow buckbrush rose Russian olive D Wild oats D

Ag. Unit No.: A-

Transect No.:33512

Field Strip No.: 3 Segment No.: F SE4 Sec. 32 T160N R88W Legal Description: Year 1960 | 1962 1964 1966 1968 1970 1972 1974 1976 Segment length 143 143 bluegrass C C brome F crested wheat quack D D slender wheat D western wheat D D D alfalfa aster aster, yellow bindweed C buckwheat bull thistle Canada thistle dandelion dock evening primrose flixweed foxtail germander goatsbeard C F goldenrod gumweed horseweed lambs quarters lettuce, blue lettuce, yellow marsh elder nettle pennycress peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf C CI skeletonweed sow thistle spikeweed sunflower sweet-clover, white F sweet-clover, yellow tumble mustard vetch wild licorice wild morning-glory yarrow buckbrush rose Russian olive

Transect No.: 33512 Ag. Unit No.: A-212 Field Strip No.: 3 Segment No.: G Legal Description: SE4 Sec. 32 T160N R88W 1970 1972 1974 Year 1960 1962 1964 1968 1966 Segment length 40 40 bluegrass D brome D D D crested wheat quack slender wheat western wheat alfalfa aster aster, yellow bindweed buckwheat bull thistle Canada thistle dandelion dock evening primrose flixweed foxtail germander goatsbeard goldenrod gumweed horseweed lambs quarters lettuce, blue lettuce, yellow marsh elder nettle pennycress peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf skeletonweed sow thistle spikeweed sunflower sweet-clover, white sweet-clover, yellow tumble mustard vetch wild licorice wild morning-glory varrow buckbrush rose Russian olive

33512 to

Ag. Unit No.: A-12

Transect No.: 33515

Field Strip No.: h Segment No.: A 9/13 Legal Description: SEA Sec. 32 T160N R88W Year 1960 1968 1970 1962 1972 1974 1964 1966 1976 Segment length 57 57 bluegrass D C brome D D D crested wheat F quack C slender wheat western wheat green needlegrass C alfalfa D D C C aster aster, yellow bindweed buckwheat bull thistle Canada thistle dandelion dock evening primrose flixweed foxtail germander goatsbeard goldenrod gumweed horseweed lambs quarters lettuce, blue lettuce, yellow marsh elder nettle pennycress peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf skeletonweed sow thistle spikeweed sunflower sweet-clover, white sweet-clover, yellow tumble mustard D vetch wild licorice wild morning-glory yarrow buckbrush rose Russian olive wild oats 3/13 - Flushed 11 young ST Grouse with her, Hyrown, from field included in transer Ag. Unit No.: A-12

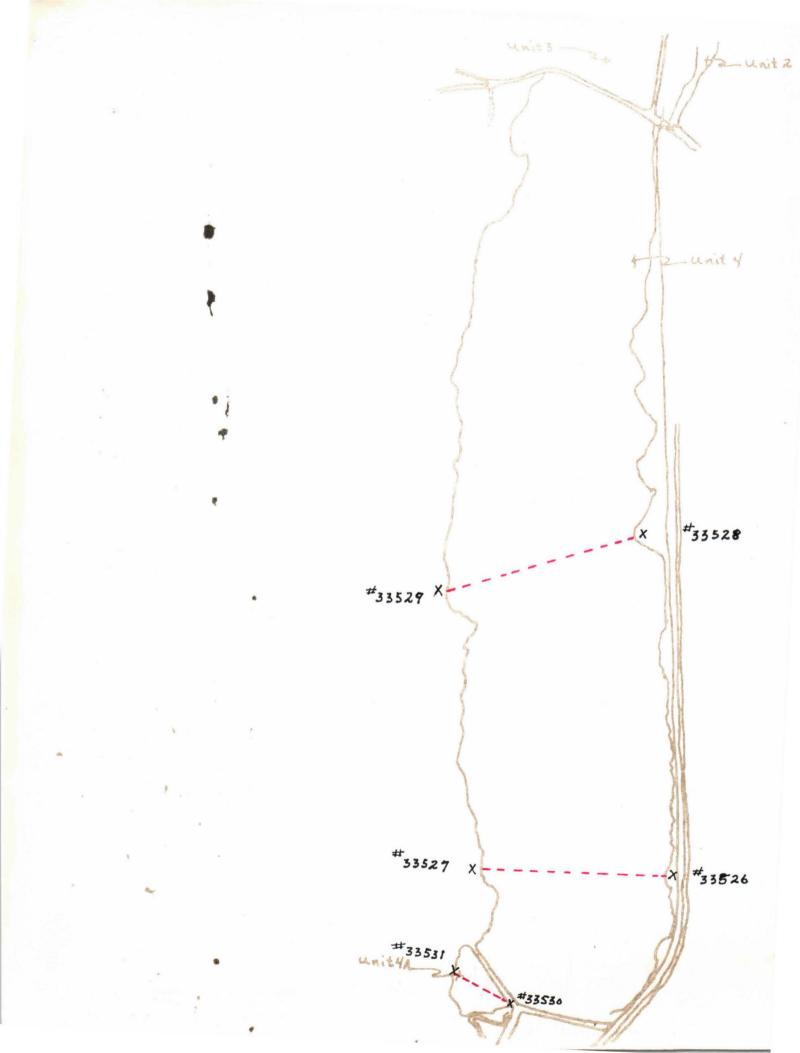
Transect No.: 33515

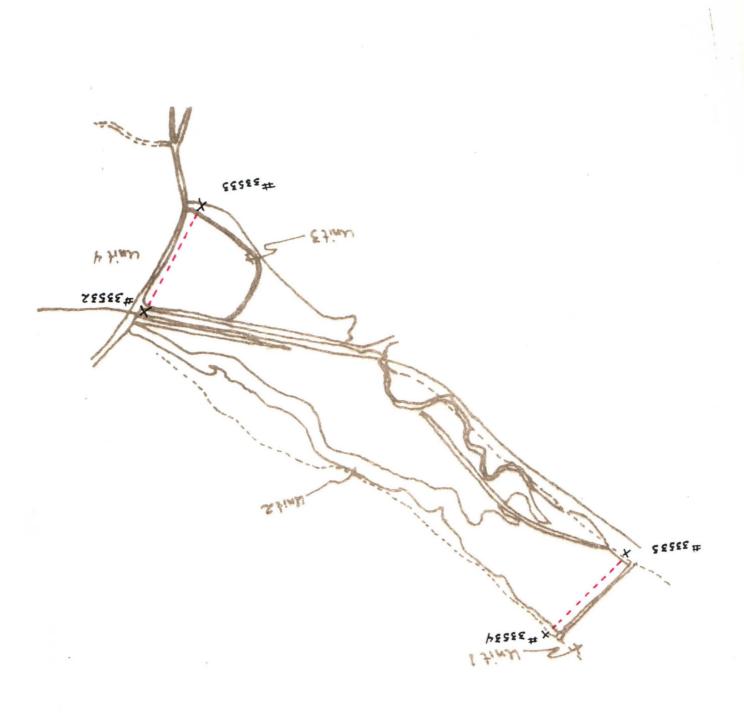
Field Strip No.: 1 Legal Description: SEL Sec. 32 Segment No.: B 8/13 1960 | 1962 | 1964 1968 1972 Year 1966 1970 1 1974 1976 Segment length bluegrass F brome F. crested wheat C C D quack F F slender wheat C D C western wheat alfalfa C D D D D aster aster, yellow bindweed buckwheat F bull thistle Canada thistle dandelion dock evening primrose flixweed F foxtail C germander goatsbeard F goldenrod gumweed horseweed lambs quarters lettuce, blue lettuce, yellow marsh elder nettle pennycress F peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf skeletonweed sow thistle spikeweed F sunflower sweet-clover, white sweet-clover, yellow tumble mustard vetch wild licorice wild morning-glory yarrow buckbrush rose Russian olive

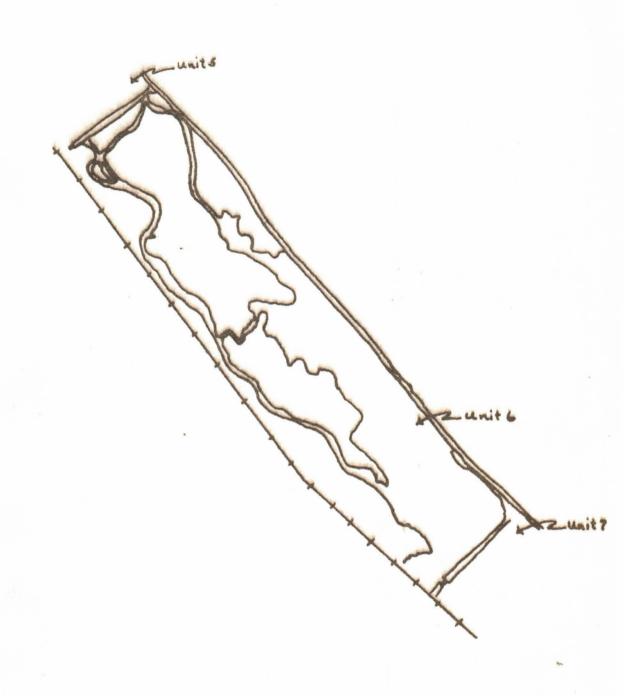
Transect No.: 33515 Ag. Unit No.: A-12 Field Strip No.: 4 Segment No.: C Legal Description: SE4 Sec. 32 T160N R88W 1974 1968 1970 1972 1976 1960 1962 1964 1966 Year Segment length 72 bluegrass C D C brome C crested wheat C C quack D slender wheat C western wheat F alfalfa D D D D aster aster, yellow bindweed buckwheat C bull thistle Canada thistle dandelion F dock evening primrose flixweed D F foxtail C germander goatsbeard C C goldenrod gumweed horseweed lambs quarters lettuce, blue lettuce, yellow marsh elder nettle pennycress peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf skeletonweed sow thistle spikeweed sunflower sweet-clover, white sweet-clover, yellow tumble mustard vetch wild licorice wild morning-glory yarrow buckbrush rose Russian olive D Wild oats

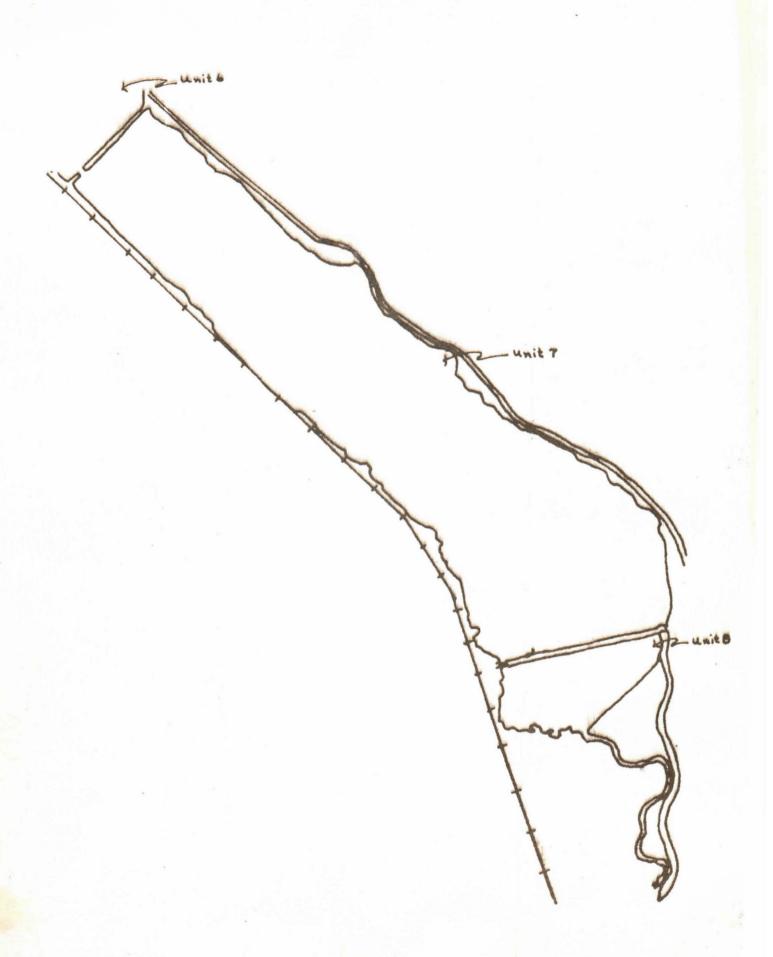
Transect No.: 33515 Ag. Unit No.: A-12 Segment No.: D Field Strip No.: 4 8/13 Legal Description: SE4 Sec. 32 T160N R88W 1972 1960 1962 1964 1968 1970 1974 1976 Year 1966 Segment length 270 270 bluegrass F F brome F F F crested wheat F C quack C C C slender wheat F C F western wheat alfalfa D D aster aster, yellow bindweed F buckwheat C bull thistle Canada thistle dandelion F C dock evening primrose flixweed foxtail F germander goatsbeard F C F goldenrod gumweed horseweed lambs quarters lettuce, blue F lettuce, yellow F F marsh elder nettle F pennycress peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf skeletonweed sow thistle spikeweed sunflower sweet-clover, white sweet-clover, yellow tumble mustard F F vetch wild licorice wild morning-glory varrow buckbrush F rose Russian olive Wild oats F D

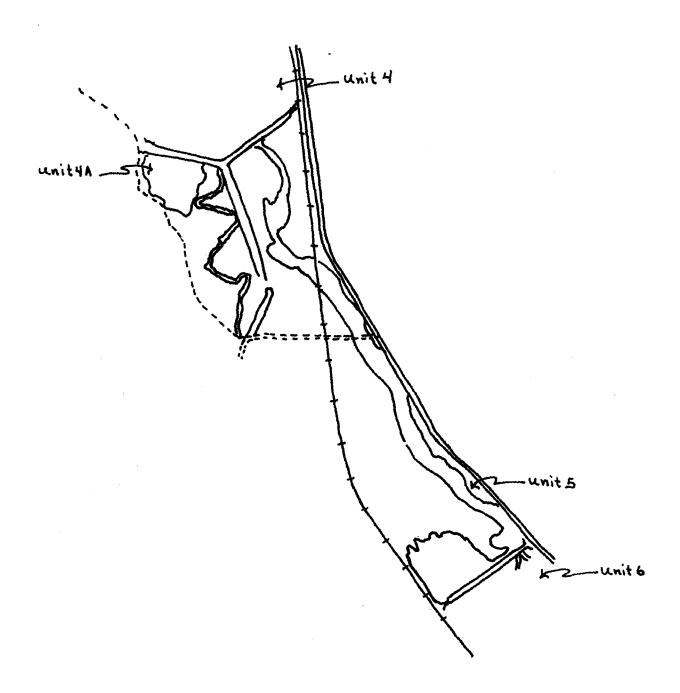
Transect No.: 33515 Ag. Unit No.: A-12 Field Strip No.: 4
Legal Description: SE4 Sec. 32 T160N R88W Segment No.: E 8/13 1976 1968 1970 1972 1974 1960 | 1962 | 1964 | 1966 Year Segment length 249 249 C C bluegrass C D D brome C FI D crested wheat C C D D quack C slender wheat C western wheat alfalfa D D D D aster aster, yellow bindweed buckwheat C F bull thistle Canada thistle dandelion F C dock evening primrose flixweed F F foxtail F germander goatsbeard C C goldenrod gumweed horseweed lambs quarters lettuce, blue C C ? lettuce, yellow F marsh elder nettle pennycress peppergrass prairie cone flower sagewort, fringed sagewort, long-leaf silverleaf skeletonweed sow thistle spikeweed sunflower sweet-clover, white sweet-clover, yellow tumble mustard vetch wild licorice wild morning-glory varrow buckbrush rose Russian olive D Wild oats C Il All in last 75











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