NARRATIVE REPORT

UPPER MISSISSIPPI RIVER NATIONAL WILDLIFE REFUGE

Guttenberg District

January - June 1973

Jeffrey P. Smith (Resigned 5/12/73)
Robert E. Wilson (EOD 6/25/73)
District Manager

United States Department of the Interior

Fish and Wildlife Service

Bureau of Sport Fisheries and Wildlife

Guttenberg, Iowa

PART I. REFUGE HIGHLIGHT STATEMENT

Precipitation for the period totaled 21.31 inches which is 5.36 inches higher than the normal 15.95 inches. Unusually heavy rains occurred during the months of March, April, and May. The heavy rainfall resulted in a substantial run-off. The Turkey River Bottoms were flooded on several occasions, leaving huge ice flows over much of the area which included two agricultural units where the corn had not been picked.

Snowfall for the period was relatively light. The only heavy snowfall occurred on April 9th and 10th when a total of 15 inches was recorded. Along with high winds, the snow created blizzard conditions with drifts of 15 feet not uncommon.

Generally, temperatures averaged above normal for the period. The mean average was 5 degrees above the normal mean average of 40 degrees. The maximum temperature recorded during the period was 92 degrees in June, while the minimum was minus 10 degrees in January.

On March 22nd, the river reached its highest level of 622.30 feet. This is 11.3 feet above the normal level of 611.0 feet. On three separate occassions the gates at Lock and Dam 10 were all the way out and the Mississippi River was free-flowing. During the period March through May, the gates were out 77 consecutive days which is extremely unusual. During the reporting period, the gates rere out a total of 94 days.

Mild temperatures in February (mean average 11 degrees above normal) saw migration begin with the arrival of goldeneyes followed by mallards. Peak migration occurred the fourth week in March with the presence of 25,545 birds. Compared to 1972, this peak number is a reduction of nearly 50 per cent. Use days for the reporting period totaled 880,650. Scaup (57%), mallards (10%), wood ducks (9%), and canvasbacks (7%) comprised the bulk of the use days. Scaup peaked at 14,645 and mallards at 5,610 as compared to 20,470 and 10,870 respectively in 1972.

Water levels were much more favorable for waterfowl production this year as compared to 1972. Wood duck production was estimated at 1,857, up from 1,397 in 1972. Mallard production was estimated to be 158, up slightly from 1972.

Public use for the reporting period totaled 107,607 visits. This is a 45 percent increase over 1972. Fishing still remains the major yeer round activity with 57,019 visits recorded which is 52 per cent of the total visits and an increase of 90 per cent over the same period in 1972. Boating ranks second with 20,278 visits, representing 18 per cent of the total visits.

The Guttenberg Aquarium had an estimated 1,340 visits during the month of June. Visitation was down considerably from the 4,782 estimated visits during June of 1972. This was due primarily to the resignation of the District Manager in May, which is the prime time to collect fish for display purposes. With the help of the Cassville District Manager and city officials, the Aquarium was open in early June. However, many of the popular game fish were not on display.

UM-1 Rev.
1964

B. Habitat Conditions
1. Water

UPPER MISS. N.W.R - GUTTENBERG DISTRICT
JANUARY - JUNE 1973

POOL LEVELS

Pool No. 10 at CLAYTON, IOWA Normal: 611.00

MONTH	HIGHEST LEVEL	LOWEST LEVEL	AVERAGE LEVEL	DATES OF HIGH LEVEL	DATES OF LOW LEVEL
January	613.35	611.90	612.67	23rd + 24th	15th + 16th
February	613.30	611.55	612.33	3rd + 4th	19th
March	622.30	611.80	616.21	2nd	6th
April	618.45	613.95	616.29	23rd + 24th	15th + 16th
May	619.55	612.65	615.96	11th	25th
June	617.00	611.60	613.76	4th	30th
July					
August					
September					
October					
November					
December					

UM-2
Rev.
1965

I. GENERAL

A. Weather Conditions UPPER MISS. N.W.R.
GUTTENBERG DISTRICT
JANUARY - JUNE 1973

MONTH	Precipitation			Temperature			
	Total	Normal	Snowfall	Max.	Min.	Mean Av.	Normal Mean Av.
January	1.18	.92	2.5	53	-10	22	8
February	.82	.90	1.0	48	-6	28	17
March	3.50	1.96		67	23	44	38
April	7.27	3.46	15.0	69	19	48	48
May	5.31	3.70		75	35	58	60
June	3.23	5.01		92	52	72	69
July							
August							
September							
October							
November							
December							
SEMI-Annual Totals	21.31	15.95	18.5	92	-10	45	40

UM-3

COMPARISON OF PEAK NUMBERS, PEAK DATES, AND TOTAL DAYS USE

Refuge: UPPER MISS. N.W.R. – GUTTENBERG DISTRICT

Period: JANUARY – APRIL 1973

Species	Peak Numbers 1972	Peak Numbers 1973	Percent of Change Decrease	Percent of Change Increase	Peak Dates* 1972	Peak Dates* 1973	TOTAL DUCK DAYS USE 1972	TOTAL DUCK DAYS USE 1973	Percent of Change Decrease	Percent of Change Increase
Mallard	10,870	5,610	48		3/25	3/24	107,775	79,660	26	
Black	165	55	100+		4/1	3/24	2,000	980	100+	
Gadwall	525	70	100+		4/8	3/24	6,975	1,610	100+	
Baldpate	4,090	565	100+		4/1	4/14	48,225	14,630	100+	
Pintail	620	350	43		4/1	4/7	7,650	8,925		16
G.w.teal	965	350	100+		4/1	4/7	13,775	4,970	100+	
B.w.teal	1,980	380	100+		4/15	4/21	26,875	10,290	100+	
Shoveler	795	120	100+		4/15	4/7	9,400	3,080	100+	
Wood duck	340	730		100+	4/22+29	4/21	9,325	23,520		100+
Redhead	1,180	390	100+		3/25	3/31	12,700	7,735	39	
Ring-neck	5,315	750	100+		3/25	3/31	77,750	17,500	100+	
Canvasback	3,090	2,935	5		4/8	3/24	39,625	54,250		37
L.scaup	20,470	14,645	28		4/1	3/31	417,500	506,310		21
Golden-eye	1,785	1,370	23		4/1	3/10	28,350	21,250	25	
Bufflehead	850	250	100+		3/25	3/24	11,000	6,545	41	
Ruddy	310	465		50	3/25	3/24	3,875	8,995		100+
Mergansers	1,250	1,855		48	4/1	3/10	36,250	28,610	21	
Old squaw										
Scoters										
Unident.										
TOTALS	47,325	25,545	46		4/1	3/24	859,050	798,860	7	

*Week ending.

Comments: 1972 USE DAYS BASED ON 5 DAYS PER WEEK.
1973 USE DAYS BASED ON 7 DAYS PER WEEK.

UM-3

COMPARISON OF PEAK NUMBERS, PEAK DATES, AND TOTAL DAYS USE
Refuge: UPPER MISS. N.W.R. - GUTTENBERG DISTRICT
Period: MAY - AUGUST 1973

Species	Peak Numbers 1972	Peak Numbers 1973	Percent of Change Decrease	Percent of Change Increase	Peak Dates* 1972	Peak Dates* 1973	TOTAL DUCK DAYS USE 1972	TOTAL DUCK DAYS USE 1973	Percent of Change Decrease	Percent of Change Increase
Mallard	275	300		9	8/31	8/4	15,825	26,250		65
Black										
Gadwall										
Baldpate	25	10	100+		8/31	5/5	225	280		24
Pintail	75	15	100+		8/26+31	5/5	1,250	525	100+	
G.w.teal	20	-	100+		8/31	-	100	-	100+	
B.w.teal	2,000	250	100+		8/31	5/5	24,975	10,570	100+	
Shoveler	55	-	100+		5/6	-	375	-	100+	
Wood duck	1,750	2,300		31	8/12+31	7/14	116,450	205,310		76
Redhead										
Ring-neck	40	-	100+		5/6	-	200	-	100+	
Canvasback	~~570~~									
L.scaup	570	400	30		5/6	5/5	4,100	2,975	27	
Golden-eye	10	-	100+		5/6	-	75	-	100+	
Bufflehead										
Ruddy										
Mergansers	120	50	100+		7/22-29	6/9	4,725	5,110		8
Old squaw										
Scoters										
Unident.										
TOTALS	4,195	2,760	34		8/31	8/4-8/18	168,300	251,020		49

*Week ending.

Comments: 1972 USE DAYS BASED ON 5 DAYS PER WEEK.
1973 USE DAYS BASED ON 7 DAYS PER WEEK.

UM-3

COMPARISON OF PEAK NUMBERS, PEAK DATES, AND TOTAL DAYS USE
Refuge: UPPER MISS. N.W.R. - GUTTENBERG DISTRICT
Period: SEPTEMBER - DECEMBER 1973

Species	Peak Numbers 1972	Peak Numbers 1973	Percent of Change Decrease	Percent of Change Increase	Peak Dates* 1972	Peak Dates* 1973	TOTAL DUCK DAYS USE 1972	TOTAL DUCK DAYS USE 1973	Percent of Change Decrease	Percent of Change Increase
Mallard	8,675	3,525	100 +		10/21	12/1	133,900	176,323		31
Black	160	117	27		11/30	12/1	2,525	4,610		82
Gadwall	210	185	12		11/11	10/6	3,350	3,588		7
Baldpate	325	990		100 +	10/21	10/27	8,150	30,849		100 +
Pintail	145	1,110		100 +	10/21	10/27	3,650	21,651		100 +
G.w.teal	425	192	100 +		10/21	10/13	9,525	6,699	30	
B.w.teal	1,840	1,400	24		9/23	9/29	48,475	31,304	35	
Shoveler	60	75		25	10/7	10/20	850	1,449		70
Wood duck	1,920	2,650		38	9/30	9/29	54,025	100,765		86
Redhead	295	30	100+		11/4	11/17	4,075	210	100+	
Ring-neck	975	194	100 +		11/11	11/17	15,125	3,403	100 +	
Canvasback	890	245	100+		11/4	11/10	10,325	4,795	100 +	
L.scaup	3,500	1,800	49		11/11	11/3	34,450	38,255		11
Golden-eye	305	80	100+		11/30	11/24	3,050	1,876	38	
Bufflehead	70	30	100+		11/25	11/17	725	462	36	
Ruddy	40	24	140+		11/4	11/17	475	420	12	
Mergansers	110	90	18		12/9	12/8	3,200	3,353	18	5
Old squaw										
Scoters										
Unident.										
TOTALS	11,460	6,601	42		10/21	10/20	335,875	430,012		28

*Week ending.

Comments: 1972 USE DAYS BASED ON 5 DAYS PER WEEK.
1973 USE DAYS BASED ON 7 DAYS PER WEEK.

UM-3A

COMPARISON OF PEAK NUMBERS, PEAK DATES, AND TOTAL DAYS USE
Refuge: UPPER MISS. N.W.R. - GUTTENBERG DISTRICT
Period: JANUARY - APRIL 1973

Species	Peak Numbers 1972	Peak Numbers 1973	Per cent of Change Decrease	Per cent of Change Increase	Peak Dates* 1972	Peak Dates* 1973	TOTAL DAYS USE 1972	TOTAL DAYS USE 1973	Per cent of Change Decrease	Per cent of Change Increase
Canada geese (lg.)	56	-	100 +		3/18	-	365	-	100	
Cackling										
White-fronted										
Snow										
Blue										
TOTALS	56	-	100		3/18		365	-	100	

Comments:

Coot	3,375	5,455		61	4/15	4/14	42,150	103,705		100+
Florida gallinule										

Comments:

UM-3A

COMPARISON OF PEAK NUMBERS, PEAK DATES, AND TOTAL DAYS USE

Refuge: UPPER MISS. N.W.R. - GUTTENBERG DISTRICT

Period: MAY - AUGUST 1973

Species	Peak Numbers 1972	Peak Numbers 1973	Per cent of Change Decrease	Per cent of Change Increase	Peak Dates* 1972	Peak Dates* 1973	TOTAL DAYS USE 1972	TOTAL DAYS USE 1973	Per cent of Change Decrease	Per cent of Change Increase
Canada geese (lg.)										
Cackling										
White-fronted										
Snow										
Blue										
TOTALS										

Comments:

Coot	530	700		32	5/6	5/5	5,100	7,770		52
Florida gallinule										

Comments:

UM-3A

COMPARISON OF PEAK NUMBERS, PEAK DATES, AND TOTAL DAYS USE
Refuge: UPPER MISS. N.W.R. - GUTTENBERG DISTRICT
Period: SEPTEMBER - DECEMBER 1973

Species	Peak Numbers 1972	Peak Numbers 1973	Per cent of Change Decrease	Per cent of Change Increase	Peak Dates* 1972	Peak Dates* 1973	TOTAL DAYS USE 1972	TOTAL DAYS USE 1973	Per cent of Change Decrease	Per cent of Change Increase
Canada geese (lg.)	18	12	33		9/23	10/13	254	24	100+	
Cackling										
White-fronted										
Snow	35	20	43		10/28	10/27	118	20	100+	
Blue	30		100		10/28	—	99	—	100	
TOTALS	71	20	100+		10/28	10/27	380	44	100+	

Comments:

Coot	14,100	27,300		94	10/14	10/20	349,325	575,410		65
Florida gallinule										

Comments:

PERCENTAGE COMPOSITION BY SPECIES OF TOTAL DUCK DAY USE
Refuge: UPPER MISS. NWR - GUTTENBERG DISTRICT
Period: JANUARY - APRIL 1973

Species	Percent of total duck day use					
	1971		1972		1973	
	% of use	Order	% of use	Order	% of use	Order
Mallard	7	2	13	2	10	2
Black duck	Tr	17	Tr	17	Tr	17
Gadwall	Tr	13	1	15	Tr	16
Baldpate	5	4	6	4	2	8
Pintail	Tr	15	1	14	1	11
G.w.teal	Tr	12	2	9	Tr	14
B.w.teal	4	7	3	8	1	9
Shoveler	Tr	11	1	12	Tr	15
Wood duck	3	8	1	13	3	5
Redhead	1	10	1	10	1	12
Ring-neck	5	3	9	3	2	7
Canvasback	5	5	5	5	7	3
Lesser scaup	63	1	49	1	63	1
Golden-eye	4	6	4	7	3	6
Bufflehead	Tr	14	1	11	1	13
Ruddy	Tr	16	Tr	16	1	10
Mergansers	2	9	4	6	3	4
Old squaw						
Scoters						

Comments:

PERCENTAGE COMPOSITION BY SPECIES OF TOTAL DUCK DAY USE
Refuge: UPPER MISS. N.W.R. - GUTTENBERG DISTRICT
Period: MAY - AUGUST 1973

Species	Percent of total duck day use					
	1971		1972		1973	
	% of use	Order	% of use	Order	% of use	Order
Mallard	13	2	9	3	10	2
Black duck						
Gadwall						
Baldpate			Tr	8	Tr	7
Pintail	Tr	7	1	6	Tr	6
G.w.teal	Tr	8	Tr	10		
B.w.teal	7	3	15	2	4	3
Shoveler	Tr	6	Tr	7		
Wood duck	78	1	69	1	82	1
Redhead						
Ring-neck			Tr	9		
Canvasback						
Lesser scaup	Tr	5	2	5	1	5
Golden-eye			Tr	11		
Bufflehead						
Ruddy						
Mergansers	Tr	4	3	4	2	4
Old squaw						
Scoters						

Comments:

PERCENTAGE COMPOSITION BY SPECIES OF TOTAL DUCK DAY USE
Refuge: UPPER MISS. N.W.R. - GUTTENBERG DISTRICT
Period: SEPTEMBER - DECEMBER 1973

Species	Percent of total duck day use					
	1971		1972		1973	
	% of use	Order	% of use	Order	% of use	Order
Mallard	33	1	40	1	41	1
Black duck	1	10	1	14	1	9
Gadwall	Tr	12	1	11	Tr	10
Baldpate	5	5	2	8	7	5
Pintail	1	9	1	10	5	6
G.w.teal	5	6	3	7	1	7
B.w.teal	8	4	14	3	7	4
Shoveler	Tr	17	Tr	15	Tr	14
Wood duck	19	2	16	2	23	2
Redhead	Tr	16	1	9	Tr	17
Ring-neck	2	8	4	5	Tr	11
Canvasback	Tr	15	3	6	1	8
Lesser scaup	19	3	10	4	9	3
Golden-eye	1	11	1	13	Tr	13
Bufflehead	Tr	14	Tr	16	Tr	15
Ruddy	Tr	13	Tr	17	Tr	16
Mergansers	3	7	1	12	Tr	12
Old squaw						
Scoters						

Comments:

WEEKLY DUCK POPULATIONS AND PEAK NUMBERS

Refuge: UPPER MISS. NWR - GUTTENBERG DISTRICT
Period: JANUARY - APRIL 1973

Week of Period:	1969	1970	1971	1972	1973
1	0	10	5	1,185	60
2	0	0	5	445	15
3	0	15	0	435	10
4	0	10	0	395	10
5	0	10	0	320	10
6	0	5	0	50	10
7	0	10	0	50	60
8	0	50	15	75	150
9	120	825	20	165	925
10	441	1,355	135	690	4,490
11	290	6,185	1,555	1,755	16,090
12	4,115	23,825	2,945	42,835	25,545 *
13	9,890	36,455 *	16,730	47,325 *	20,200
14	23,980 *	12,790	19,465 *	32,860	20,320
15	7,830	9,840	9,135	24,035	17,445
16	2,649	7,025	2,620	11,945	6,355
17	1,630	2,370	1,725	7,245	2,785
18					
TOTAL DAYS USE	283,028	502,930	268,325	859,050	798,860

* Indicates peak concentration

COMMENTS:

UM-5

WEEKLY DUCK POPULATIONS AND PEAK NUMBERS

Refuge: UPPER MISS. N.W.R. - GUTTENBERG DISTRICT
Period: MAY - AUGUST 1973

Week of Period:	1969	1970	1971	1972	1973
1	630	915	1,025	1,765	1,565
2	825	950	775	950	1,135
3	742	625	735	595	1,085
4	720	615	685	900	1,085
5	700	615	680	875	915
6	700	615	745	1,075	935
7	700	910	745	1,435	1,035
8	700	1,230	745	1,755	1,415
9	700	1,490	810	1,755	2,525
10	2,350	1,590	2,185	1,895	2,525
11	2,350	2,210	2,185	2,050	2,625
12	2,400	2,560	2,195	2,060	2,625
13	2,600	2,560	2,195	2,060	2,625
14	2,760	2,570	2,195	2,000	2,760*
15	2,760	2,570	2,460	2,350	2,760
16	3,350	2,745	2,645	2,600	2,760
17	3,450*	3,370*	3,235*	3,345	2,735
18				4,195*	2,750
TOTAL DAYS USE	198,640	168,810	171,775	168,300	251,895

* Indicates peak concentration

COMMENTS:

WEEKLY DUCK POPULATIONS AND PEAK NUMBERS

Refuge: UPPER MISS. N.W.R. - GUTTENBERG DISTRICT
Period: SEPTEMBER - DECEMBER 1973

Week of Period:	1969	1970	1971	1972	1973
1	3,050	3,450	3,385	3,940	2,750
2	2,420	3,660	3,420	4,060	3,125
3	2,560	4,305	3,315	4,185	3,930
4	2,530	4,705	3,115	4,750	5,825
5	4,400 *	5,790 *	3,410	5,060	4,800
6	1,090	1,410	2,380	5,240	3,650
7	1,660	1,830	2,875	11,460 *	6,601 *
8	3,585	1,195	3,115	2,870	5,515
9	635	1,390	3,720	6,845	5,765
10	920	1,470	6,135	8,395	5,789
11	705	2,280	8,905	2,190	3,638
12	320	1,465	11,280 *	4,020	3,163
13	295	445	8,415	3,665	2,618
14	100	410	1,550	185	4,123
15	40	255	1,535	160	125
16	0	65	1,950	75	71
17	0	30	685	75	65
18		0	285		65
TOTAL DAYS USE	146,200	186,895	365,520	335,875	471,031

* Indicates peak concentration

COMMENTS:

1965
UM-9A

Refuge: UPPER MISS. N.W.R. - GUTTENBERG DIST.
Period: Calendar Year 1973

B. Upland Game Birds

SPECIES	POPULATION JAN. 1	YOUNG PRODUCED	NUMBER STOCKED	GREATEST NO. PRESENT	TAKE	LOSS	POPULATION DEC. 31
Ring-necked Pheasant	15	5	0	25		5	15
Ruffed grouse	10	5	0	20		5	10
Bob-white quail	20	10	0	35		10	35
Gray partridge							
Wild turkey							

C. Big Game Animals (White-tailed deer)

POPULATION JAN. 1	YOUNG PRODUCED	GREATEST NO. PRESENT	HUNTER TAKE	LOSSES	POPULATION DEC. 31
30	25	55	5	5	45

3-1758
Form NR-6
(Rev. Jan. 1956)

Fish and Wildlife Service Branch of Wildlife Refuges

CULTIVATED CROPS - HAYING - GRAZING 1973

Refuge Upper Mississippi - Guttenberg District County Clayton State Iowa

Cultivated Crops Grown	Permittee's Share Harvested		Government's Share or Return				Total Acreage Planted	Green Manure, Cover and Waterfowl Browsing Crops Type and Kind	Total Acreage
			Harvested		Unharvested				
	Acres	Bu./Tons	Acres	Bu./Tons	Acres	Bu./Tons			
Corn	23	1679			11	831	34		34
								Fallow Ag. Land	132

No. of Permittees: Agricultural Operations 2 Haying Operations 0 Grazing Operations 0

Hay - Improved (Specify Kind)	Tons Harvested	Acres	Cash Revenue	GRAZING	Number Animals	AUM'S	Cash Revenue	ACREAGE
				1. Cattle				
				2. Other				
				1. Total Refuge Acreage Under Cultivation				34
Hay - Wild				2. Acreage Cultivated as Service Operation				

3-1761
Form 3-11

TIMBER REMOVAL

Refuge Upper Mississippi - Guttenberg District Year 1973

Permittee	Permit No.	Unit or Location	Acreage	No. of Units Expressed in B. F., ties, etc.	Rate of Charge	Total Income	Reservations and/or Diameter Limits	Species Cut
Pierce Lumber Co.	SUP #250	Sny Magill Bottoms	40	137,105 B.F.	$10.00 MBF	$1,371.05	Elm Only	Elm

Total acreage cut over 40 Total income $1,371.05

No. of units removed B. F. 137,105 Method of slash disposal Left on site

Cords

Ties

GUTTENBERG DISTRICT
03-3527-04

WE CODE	WORK ELEMENT	WE UNITS	PLANNED UNITS	PLANNED FUNDS	PLANNED PMM	ACCOMPLISHED UNITS	ACCOMPLISHED FUNDS	ACCOMPLISHED PMM	DEVIATION (+/-%) UNITS	DEVIATION (+/-%) FUNDS	DEVIATION (+/-%) PMM
OPERATION AND MAINTENANCE											
OPERATIONS											
2-02	OPERATION-SURVEYS	NO. SURVEY					1,270	1.4		+999%	+999%
2-03	OPERATION-FARMING	A. FARMED					196	.2		+999%	+999%
2-05	OPERATION-PEST PLT CON	A. TREATED					85	.1		+999%	+999%
2-07	OPERATION-WAT LEVEL MGT	A. MANAGED					27			+999%	
2-11	OPERATION-ANIMAL CONT	NO. AN CON					25			+999%	
2-16	OPERATION-ANIM COLLECT	NO. COLCTD					31			+999%	
2-20	OPERATION-LITTER CONT	NO. PROJCT					354	.5		+999%	+999%
2-22	OPERATION-PUBLIC PROG	NO. PROGMS					395	.4		+999%	+999%
2-23	OPERATION-PROTECTION	AS APP					529	.5		+999%	+999%
2-25	OPERATION-BUREAU ACT	NO. PROJCT					597	.9		+999%	+999%
2-27	OPERATION-OTH OPERATION	AS APP					738			+999%	
SUPPORTING FACILITIES											
2-40	SUP FAC-BLDG-QTRS	SQ. FT					5			+999%	
2-41	SUP FAC-BLDG-GEN NON-RC	SQ. FT					1,162	.8		+999%	+999%
2-42	SUP FAC-BLDG-RECREATION	SQ. FT					86	.1		+999%	+999%
2-45	SUP FAC-S&I-RECREATION	AS APP					17			+999%	
2-46	SUP FAC-S&I-TRANS NON-R	AS APP					26			+999%	
2-47	SUP FAC-S&I-WATER	AS APP					380	.5		+999%	+999%
2-49	SUP FAC-S&I-OTHER	AS APP					279	.4		+999%	+999%
SUPPORTING SERVICES											
2-60	SUP SER-PLANNING	NO. PLANS					242	.3		+999%	+999%
2-61	SUP SER-TRAINING	HRS TRAING					21			+999%	
2-62	SUP SER-ADMINISTRATION	AS APP					4,645	4.9		+999%	+999%
SUPPORTING EQUIPMENT											
2-70	SUP EQUIP-AIRCRAFT	HRS OPERTD					27			+999%	
2-71	SUP EQUIP-AUTO EQUIP	MI OPERTD					691	.4		+999%	+999%
2-73	SUP EQUIP-HEAVY EQUIP	HRS OPERTD					43			+999%	
2-74	SUP EQUIP-WATERCRAFT	HRS OPERTD					799	.8		+999%	+999%
TOTAL OPERATIONS AND MAINTENANCE											
	TOTAL						12,670	12.6		+999%	+999%

GUTTENBERG DISTRICT
03-3527-04

WE CODE	WORK ELEMENT	WE UNITS	**********PLANNED********** UNITS	FUNDS	PMM	******ACCOMPLISHED****** UNITS	FUNDS	PMM	*DEVIATION (+/-%)* UNITS	FUNDS	PMM
EXPENDITURES BY PLANNING ALLOWANCE											
3-15	ACTIVITY-1116	N/A					12,670			+999%	
3-16	ACTIVITY-2720	N/A					12,670			+999%	

GUTTENBERG DISTRICT
03-3527-04

WE CODE	OUTPUT ELEMENT	OE UNITS	PLANNED UNITS	ACCOMPLISHED UNITS	ACCOMPLISHED RBU'S	DEVIATION
WILDLIFE-WILDLANDS INTERPRETATION						
6-14	EXHIBITS-DEMONSTRATIONS	ACT HOURS		8,418	631,975	+999%
6-15	OTHER PROGRAMS	ACT HOURS		582	29,100	+999%
ENVIRONMENTAL EDUCATION						
6-20	STUDENTS	ACT HOURS		60	9,000	+999%
WILDLIFE-WILDLANDS RECREATION						
6-30	HUNTING MIGRATORY BIRDS	ACT HOURS		14,102	705,100	+999%
6-31	HUNTING RESIDENT GAME	ACT HOURS		1,894	38,795	+999%
6-32	FISHING	ACT HOURS		626,050	15,651,250	+999%
6-33	OTHER CONSUMPT W/W REC	ACT HOURS		366	3,660	+999%
6-34	WILDLIFE OBSERVATION	ACT HOURS		16,818	823,700	+999%
6-35	WILDLANDS APPRECIATION	ACT HOURS		88,243	1,323,645	+999%
6-36	PHOTOGRAPHY	ACT HOURS		498	24,900	+999%
6-38	PUBLIC AFFAIRS	ACT HOURS		4	1,750	+999%
NON WILDLIFE ORIENTED RECREATION						
6-40	CAMPING	ACT HOURS		579,288		+999%
6-41	PICNICKING	ACT HOURS		80,622		+999%
6-42	SWIMMING	ACT HOURS		229,348	-2,293,480	+999%
6-43	BOATING	ACT HOURS		360,679	-1,449,785	+999%
6-44	WATER SKIING	ACT HOURS		97,857	-978,570	+999%
6-45	OFF ROAD VEHICLING	ACT HOURS		1,940		+999%
6-46	OTHER NON W/W ORIENTED	ACT HOURS		100		+999%
PROFESSIONAL SERVICES						
6-55	ECOLOGICAL MONITORING	EACH		2	110,000	+999%
6-56	BANDING	EACH		1	50,000	+999%
ENVIRONMENTAL PRESERVATION						
6-60	NATURAL ENVIROMTS PRESR	EACH ACRE		15,001	300,020	+999%
6-61	NATURAL AREAS	EACH AREA		1	1,000,000	+999%
WILDLIFE						
6-70	THREATENED SPECIES	USE-DAY		137	1,370	+999%
6-71	SPECIAL RECOGNITION	USE-DAY		1,066,842	551,183	+999%
6-72	WILDLIFE DIVERSITY	USE-DAY		350	11,160,666	+999%
6-73	WATERFOWL MAINTENANCE	USE-DAY		1,515,270	1,515,270	+999%
6-80	WATERFOWL PRODUCTION	NUMBER		1,578	1,234,200	+999%

Charles Gish - 202-343-2994

PLANNING AND ACCOMPLISHMENT REPORT
FY-73
PART II - OUTPUT PRODUCTION

3656

GUTTENBERG DISTRICT
03-3527-04

WE CODE	OUTPUT ELEMENT	OE UNITS	PLANNED UNITS	ACCOMPLISHED UNITS	ACCOMPLISHED RBU'S	DEVIATION
ECONOMIC BENEFITS						
6-91	FOREST PRODUCTS	DOLLARS		80,310		+999%
6-94	FUR BEARERS	DOLLARS		48,520		+999%
PROGRAM ANALYSIS						
8-10	TOTAL ANNUAL BENEFITS				~~30,449,749~~	+999%

35,171,584

w/o 6-72 = 24,004,918

NATIONAL WILDLIFE REFUGE SYSTEM

REPORT OF UNIT PRODUCTION COSTS

[illegible] DISTRICT

03-3527-04

PROCESSING DATE 01/28/74

COST DATA BASE FINAL FIELD STATIONFY-73 ALL QUARTERS
OUTPUT DATA BASE PRODFILE ADJUSTED12/12/73

CODE	OUTPUT ELEMENT	OF UNITS	UNITS PRODUCED	O&M DOLLARS SPENT	MAN-HOURS UTILIZED	DOLLARS PER UNIT PRODUCED	MAN-HOURS PER UNIT PRODUCED
14	VISITS-DEMONSTRATIONS	ACT HOURS	8418	297.00	53	.0352	.0062
15	[illegible] PROGRAMS	ACT HOURS	582	975.00	157	1.6752	.2697
40	[illegible]MENTS	ACT HOURS	60	84.00	11	1.4000	.1833
42	PROFESSIONAL SERVICES			78.00	15		
[illegible]	[illegible]TING MIG BIRDS-OTHER	ACT HOURS	14102	1195.00	191	.0847	.0135
[illegible]	[illegible]ATING RESIDENT GAME	ACT HOURS	1894				
[illegible]	[illegible]SHING	ACT HOURS	626050	104.00	15	.0001	.0000
33	OTHER CONSUMPT W/W REC	ACT HOURS	365				
34	WILDLIFE OBSERVATION	ACT HOURS	16818				
36	WILDLIFE APPRECIATION	ACT HOURS	38243	52.00	12	.0005	.0001
[illegible]	[illegible]TOGRAPHY	ACT HOURS	498				
52	PUBLIC AFFAIRS	PROGRAMS	4	209.00	34	52.2500	8.5000
[illegible]	[illegible]ING	ACT HOURS	579288				
61	PICNICKING	ACT HOURS	80622				
[illegible]	[illegible]MING	ACT HOURS	229348				
[illegible]	[illegible]ING	ACT HOURS	260679				
[illegible]	[illegible]ING	ACT HOURS	37857				
69	OFF ROAD VEHICLING	ACT HOURS	1940				
70	OTHER NON W/W ORIENTED	ACT HOURS	100				
[illegible]	[illegible]DIOS & PUBLICATIONS			132.00	23		
[illegible]	[illegible]LOGICAL ASSISTANCE	PROGRAM	2	91.00	14	45.5000	7.0000
80	[illegible]NAGING	PROGRAM	1	1907.00	371	1907.0000	371.0000
87	OTHER COOPERATIVE PROMS			456.00	80		
[illegible]	[illegible]URAL ENVIRONMTS PRESR	ACRE	15001	271.00	43	.0180	.0028
[illegible]	[illegible]ATION AREAS	AREA	1				
[illegible]	[illegible]ENDANGERED SPECIES	USE DAYS	137				
[illegible]	SPECIAL RECREATION	USE DAYS	10[illegible]6842				
72	WILDLIFE DIVERSITY	NO. SPECS	350	253.00	45	.7228	.1285
73	[illegible]TIONAL MAINTENANCE	USE DAYS	1515270	4493.00	762	.0029	.0005
[illegible]	[illegible]TIONAL PRODUCTION	NO. ANIMAL	1578	518.00	94	.3282	.0595
[illegible]	[illegible]EST PRODUCTS	DOLLARS	60310	449.00	78	.0055	.0009
95	FOR REVENUE	DOLLARS	48520	1091.00	175	.0224	.0036
97	RECREATION USE FEES			15.00	2		
	ORGANIZATION TOTAL			12670.00	2175		

NATIONAL WILDLIFE REFUGE SYSTEM
PUBLIC USE REPORT

ACT HRS BY MONTH

GUTTENBERG DISTRICT
03-3527-04-GTD

ACTIVITY NAME	JUL-72	AUG-72	SEP-72	OCT-72	NOV-72	DEC-72	JAN-73	FEB-73	MAR-73	APR-73	MAY-73	JUN-73	12 MONTH TOTAL
INTERPRETATION													
EXHIBITS-DEMONSTRATIONS													
SELF GUIDED	3410	3833	480									670	8393
CONDUCTED			25										25
OTHER PROGRAMS		60		177			21	31	207	86			582
EDUCATION													
STUDENTS				60									60
RECREATION-WILDLIFE WILDLANDS													
HUNTING MIGRATORY BIRDS													
DUCKS				9085	3721	65							12871
GENERAL WATERFOWL				702	248								950
HUNTING MIG BIRDS-OTHER			123	122	36								281
HUNTING RESIDENT GAME													
UPLAND GAME BIRDS				17	200								217
BIG GAME, DEER-BOW													
WHITE-TAILED DEER				75	100								175
SMALL GAME			210	140	87	35	52	35					559
OTHER GAME			20	375	443	20	20	65					943
FISHING													
WARMWATER	96760	120811	63005	56465	25842	28347	28643	18634	27486	35522	64288	59203	625006
CLAMS,CRABS,OYSTERS	136	128	80	20	60						308	312	1044
OTHER CONSUMPT W/W REC	40	60	60	20	10						164	12	366
WILDLIFE OBSERVATION													
FOOT	590	738	384	344	315	692	698	454	670	433	392	353	6063
BOAT (NONMOTORIZED)	590	738	384	344							832	772	3660
OTHER	1180	1476	768	688	315					433	1177	1058	7095
WILDLANDS APPRECIATION													
FOOT	14325	15525	8284	11300	94	2913	748	225	2465	845	17281	14238	88243
PHOTOGRAPHY	60	60	30	60	15	15	30	15	90	30	60	33	498
RECREATION NON-WILDLIFE													
CAMPING	147636	187320	77808	600							84588	81336	579288
PICNICKING	20563	26068	10838	76							11740	11337	80622
SWIMMING	61816	78403	20035								35050	34044	229348
BOATING	79083	100246	51979	34596	3524				158	607	46890	43596	360679
WATER SKIING	26361	33420	8550								14994	14532	97857
OFF ROAD VEHICLING						1100	350	490					1940
OTHER NON W/W ORIENTED						70	30						100
TOTAL INTERPRETATION	3410	3893	505	177			21	31	207	86		670	9000
TOTAL EDUCATION				60									60

NATIONAL WILDLIFE REFUGE SYSTEM
PUBLIC USE REPORT

ACT HRS BY MONTH

GUTTENBERG DISTRICT
03-3527-04-GTD

ACTIVITY NAME	JUL-72	AUG-72	SEP-72	OCT-72	NOV-72	DEC-72	JAN-73	FEB-73	MAR-73	APR-73	MAY-73	JUN-73	12 MONTH TOTAL
TOTAL HUNTING			353	10516	4835	120	72	100					15996
TOTAL FISHING	96896	120939	63085	56485	25902	28347	28643	18634	27486	35522	64596	59515	626050
TOTAL OTHER W/W RECREATION	16785	18597	9910	12756	749	3620	1476	694	3225	1741	19906	16466	105925
TOTAL WILDLIFE ORIENTED	117091	143429	73853	79994	31486	32087	30212	19459	30918	37349	84502	76651	757031
TOTAL NON-WILDLIFE ORIENTED	335459	425457	169210	35272	3524	1170	380	490	158	607	193262	184845	1349834
TOTAL PUBLIC USE	452550	568886	243063	115266	35010	33257	30592	19949	31076	37956	277764	261496	2106865
NO. VISITS TO REFUGE	71881	90075	36253	18953	6590	7689	7163	4697	7046	8816	40599	39286	339048

NATIONAL WILDLIFE REFUGE SYSTEM
PUBLIC USE REPORT

VISITS BY MONTH

GUTTENBERG DISTRICT
03-3527-04-GTD

ACTIVITY NAME	JUL-72	AUG-72	SEP-72	OCT-72	NOV-72	DEC-72	JAN-73	FEB-73	MAR-73	APR-73	MAY-73	JUN-73	12 MONTH TOTAL
INTERPRETATION													
EXHIBITS-DEMONSTRATIONS													
SELF GUIDED	6820	7666	960									1340	16786
CONDUCTED			25										25
OTHER PROGRAMS		60		59			21	31	207	43			421
EDUCATION													
STUDENTS				15									15
RECREATION-WILDLIFE WILDLANDS													
HUNTING MIGRATORY BIRDS													
DUCKS				1975	809	15							2799
GENERAL WATERFOWL				147	51								198
HUNTING MIG BIRDS-OTHER			35	35	10								80
HUNTING RESIDENT GAME													
UPLAND GAME BIRDS				5	40								45
BIG GAME, DEER-BOW													
WHITE-TAILED DEER				15	20								35
SMALL GAME			60	40	25	10	15	10					160
OTHER GAME			5	75	90	5	5	15					195
FISHING													
WARMWATER	23600	29466	15367	13772	6303	6914	6986	4545	6704	8664	15680	14440	152441
CLAMS,CRABS,OYSTERS	34	32	20	5	15						77	78	261
OTHER CONSUMPT W/W REC	20	30	30	10	5						82	6	183
WILDLIFE OBSERVATION													
FOOT	590	738	384	344	315	692	698	454	670	433	392	353	6063
BOAT (NONMOTORIZED)	590	738	384	344							416	386	2858
OTHER	1180	1476	768	688	315					433	1177	1058	7095
WILDLANDS APPRECIATION													
FOOT	57300	62100	33135	45200	375	1348	460	325	890	620	69124	56954	327831
PHOTOGRAPHY	20	20	10	20	5	5	10	5	30	10	20	11	166
RECREATION NON-WILDLIFE													
CAMPING	12303	15610	6484	50							7049	6778	48274
PICNICKING	7616	9655	4014	28							4348	4199	29860
SWIMMING	16707	21190	5415								9473	9201	61986
BOATING	17574	22277	11551	7688	783				35	135	10420	9688	80151
WATER SKIING	8787	11140	2850								4998	4844	32619
OFF ROAD VEHICLING						370	120	165					655
OTHER NON W/W ORIENTED						35	15						50
TOTAL INTERPRETATION	6820	7726	985	59			21	31	207	43		1340	17232
TOTAL EDUCATION				15									15

NATIONAL WILDLIFE REFUGE SYSTEM
PUBLIC USE REPORT

VISITS BY MONTH

GUTTENBERG DISTRICT
03-3527-04-GTD

ACTIVITY NAME	JUL-72	AUG-72	SEP-72	OCT-72	NOV-72	DEC-72	JAN-73	FEB-73	MAR-73	APR-73	MAY-73	JUN-73	12 MONTH TOTAL
TOTAL HUNTING			100	2292	1045	30	20	25					3512
TOTAL FISHING	23634	29498	15387	13777	6318	6914	6986	4545	6704	8664	15757	14518	152702
TOTAL OTHER W/W RECREATION	59700	65102	34711	46606	1015	2045	1168	784	1590	1496	71211	58768	344196
TOTAL WILDLIFE ORIENTED	90154	102326	51183	62749	8378	8989	8195	5385	8501	10203	86968	74626	517657
TOTAL NON-WILDLIFE ORIENTED	62987	79872	30314	7766	783	405	135	165	35	135	36288	34710	253595
TOTAL PUBLIC USE	153141	182198	81497	70515	9161	9394	8330	5550	8536	10338	123256	109336	771252
NO. VISITS TO REFUGE	71881	90075	36253	18953	6590	7689	7163	4697	7046	8816	40599	39286	339048

NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
(WATERFOWL ONLY)

FY-73

GUTTENBERG DISTRICT
03-3527-04-GTD

SPECIES NAME	LINE CODE	JUL-SEP 72	OCT-DEC 72	JAN-MAR 73	APR-JUN 73	FY TOTAL	FY-NO. PRODUCED	FY-NO. HARVESTED	FY-PEAK POPULATION	DATE
		*****----------USE DAYS----------*****								
SPECIAL RECOGNITION										
BIRDS										
AMERICAN COOT	711 2210	300	0	0	0	300	0	0	10	07/08
WATERFOWL MAINTENANCE										
SWANS										
WHISTLING SWAN	731 1800	0	30	0	0	30	0	0	1	11/25
GEESE										
LESSER-SNOW GOOSE	732 1690	0	540	0	0	540	0	0	65	10/28
CANADA GOOSE	732 1720	180	0	0	0	180	0	0	18	09/23
DUCKS										
COMMON MERGANSER	733 1290	0	300	0	0	300	0	0	30	11/30
RED-BREASTED MERGANSER	733 1300	0	720	0	0	720	0	0	45	11/18
HOODED MERGANSER	733 1310	3210	0	0	0	3210	0	0	120	07/22
MALLARD	733 1320	6570	0	0	0	6570	0	0	225	07/15
BLACK DUCK	733 1330	240	0	0	0	240	0	0	20	09/30
GADWALL	733 1350	180	0	0	0	180	0	0	25	09/30
AMERICAN WIDGEON	733 1370	270	0	0	0	270	0	0	25	08/31
GREEN-WINGED TEAL	733 1390	120	0	0	0	120	0	0	20	08/31
BLUE-WINGED TEAL	733 1400	450	0	0	0	450	0	0	15	07/08
SHOVELER	733 1420	480	0	0	0	480	0	0	20	09/30
PINTAIL	733 1430	1500	0	0	0	1500	0	0	75	08/26
WOOD DUCK	733 1440	50250	0	0	0	50250	0	0	1700	07/15
RED HEAD	733 1460	270	0	0	0	270	0	0	20	09/30
CANVASBACK	733 1470	0	1530	0	0	1530	0	0	105	10/21
LESSER SCAUP	733 1490	0	6720	0	0	6720	0	0	415	10/28
RING-NECKED DUCK	733 1500	270	0	0	0	270	0	0	35	09/30
COMMON GOLDENEYE	733 1510	30	0	0	0	30	0	0	5	09/30
BUFFLEHEAD	733 1530	0	150	0	0	150	0	0	10	10/21
RUDDY DUCK	733 1670	0	60	0	0	60	0	0	10	10/28
WATERFOWL PRODUCTION										
DUCKS										
HOODED MERGANSER	803 1310	0	0	0	0	0	47	0	0	
MALLARD	803 1320	0	0	0	0	0	134	0	0	
WOOD DUCK	803 1440	0	0	0	0	0	1397	0	0	

NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
(WATERFOWL ONLY)

FY-73

GUTTENBERG DISTRICT
03-3527-04-GTD

SPECIES NAME	LINE CODE	USE DAYS JUL-SEP 72	USE DAYS OCT-DEC 72	USE DAYS JAN-MAR 73	USE DAYS APR-JUN 73	FY TOTAL	FY-NO. PRODUCED	FY-NO. HARVESTED	FY-PEAK POPULATION	DATE
CONTROL TOTALS	995 0000	60780	0	0	0	60780	0	0	2070	07/00
CONTROL TOTALS	996 0000	0	0	0	0	0	1578	0	0	
	TOTAL	125100	10050	0	0	135150	3156	0		

NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
(EXCLUDING WATERFOWL)

FY-73

GUTTENBERG DISTRICT
03-3527-04-GTD

SPECIES NAME	LINE CODE	USE DAYS JUL-SEP 72	USE DAYS OCT-DEC 72	USE DAYS JAN-MAR 73	USE DAYS APR-JUN 73	FY TOTAL	FY-NO. PRODUCED	FY-NO. HARVESTED	FY-PEAK POPULATION	DATE
OTHER BIRD-MIG & RESDNT										
NON-OUTPUT SPECIES										
BOBWHITE QUAIL	071 2890	0	0	0	0	2625	10	0	35	06/30
RUFFED GROUSE	071 3000	0	0	0	0	2450	5	0	15	06/30
BELTED KINGFISHER	071 3900	0	0	0	0	109500	0	0	400	06/30
PILEATED WOODPECKER	071 4050	0	0	0	0	3650	0	0	10	06/30
COMMON CROW	071 4880	0	0	0	0	547500	0	0	1500	06/30
BOAT-TAILED GRACKLE	071 5130	0	0	0	0	2920000	0	0	8000	06/30
NON-OUTPUT SPECIES										
OPOSSUM	072 8005	0	0	0	0	150570	650	25	830	06/30
EASTERN COTTONTAIL	072 8040	0	0	0	0	255150	700	10	1150	06/30
BEAVER	072 8100	0	0	0	0	132160	100	81	400	06/30
CHIPMUNK	072 8105	0	0	0	0	73000	0	0	250	06/30
WOODCHUCK (GROUND HOG)	072 8110	0	0	0	0	28385	35	10	95	06/30
13-LINED GROUND SQUIRREL	072 8140	0	0	0	0	25550	0	0	70	06/30
GRAY SQUIRREL	072 8170	0	0	0	0	160848	400	20	810	06/30
FOX SQUIRREL	072 8180	0	0	0	0	547620	1200	160	2450	06/30
SOUTHERN FLYING SQUIRREL	072 8200	0	0	0	0	29200	0	0	100	06/30
MUSKRAT	072 8235	0	0	0	0	3162600	10500	10857	16000	06/30
RED FOX	072 8290	0	0	0	0	57155	170	25	270	06/30
GRAY FOX	072 8315	0	0	0	0	29890	70	10	135	06/30
RACCON	072 8355	0	0	0	0	227535	625	81	1000	06/30
LONG-TAILED WEASEL	072 8385	0	0	0	0	12775	0	0	35	06/30
MINK	072 8400	0	0	0	0	42245	70	25	150	06/30
STRIPED SKUNK	072 8430	0	0	0	0	38675	90	0	155	06/30
RIVER OTTER	072 8445	0	0	0	0	11445	10	0	35	06/30
WHITE-TAILED DEER	072 8540	0	0	0	0	14560	25	0	55	06/30
THREATENED SPECIES										
STATUS-UNDETERMINED										
OSPREY	704 3640	95	0	0	42	137	0	0	5	07/08
SPECIAL RECOGNITION										
BIRDS										
HORNED GREBE	711 0030	50	25	25	0	100	0	0	5	09/23
PIED-BILLED GREBE	711 0060	6625	9075	575	4865	21140	0	0	630	09/30
HERRING GULL	711 0510	200	650	2000	0	2850	0	0	275	03/10
RING-BILLED GULL	711 0540	4100	8175	20325	875	33475	0	0	2100	03/10
FRANKLIN'S GULL	711 0590	0	0	250	245	495	0	0	50	03/31
CASPIAN TERN	711 0640	525	50	0	0	575	0	0	25	09/16
FORSTER'S TERN	711 0690	875	250	0	572	1697	0	0	75	05/12

NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
(EXCLUDING WATERFOWL)

FY-73

GUTTENBERG DISTRICT
03-3527-04-GTD

SPECIES NAME	LINE CODE	USE DAYS JUL-SEP 72	USE DAYS OCT-DEC 72	USE DAYS JAN-MAR 73	USE DAYS APR-JUN 73	FY TOTAL	FY-NO. PRODUCED	FY-NO. HARVESTED	FY-PEAK POPULATION	DATE
COMMON TERN	711 0700	1475	75	0	3745	5295	0	0	250	04/28
BLACK TERN	711 0770	1575	0	0	2275	3850	0	0	300	05/12
AMERICAN BITTERN	711 1900	625	200	50	1190	2065	5	0	25	09/02
LEAST BITTERN	711 1910	325	25	0	560	910	2	0	15	04/28
GREAT BLUE HERON	711 1940	58250	8675	11300	104700	182925	725	0	1450	07/08
COMMON EGRET	711 1960	6525	125	125	1715	8490	20	0	225	08/12
GREEN HERON	711 2010	15700	125	0	19005	34830	145	0	300	06/30
BLACK-CROWNED NIGHT HERON	711 2020	2200	0	0	0	2200	30	0	60	07/08
VIRGINIA RAIL	711 2120	1100	175	0	0	1275	0	0	60	09/16
SORA	711 2140	22625	4250	0	35700	62575	0	30	2000	05/05
AMERICAN AVOCET	711 2250	5	0	0	0	5	0	0	1	07/15
AMERICAN WOODCOCK	711 2280	675	125	200	2100	3100	5	0	30	06/30
COMMON SNIPE	711 2290	0	0	0	4060	4060	0	0	200	04/07
COMMON SNIPE	711 2300	425	4525	1825	0	6775	0	10	500	10/21
DUNLIN	711 2430	0	0	0	70	70	0	0	10	04/21
UNIDENTIFIED SANDPIPER	711 2467	0	0	0	4060	4060	0	0	50	06/30
GREATER YELLOWLEGS	711 2540	0	25	0	0	25	0	0	5	10/28
LESSER YELLOWLEGS	711 2550	1050	300	0	805	2155	0	0	35	07/29
SPOTTED SANDPIPER	711 2630	16750	575	0	0	17325	175	0	300	07/08
KILLDEER	711 2730	1950	1825	750	3080	7605	30	0	120	10/21
SEMIPALMATED PLOVER	711 2740	50	0	0	0	50	0	0	10	07/08
MOURNING DOVE	711 3160	0	0	0	0	11130	100	0	200	06/30
TURKEY VULTURE	711 3250	1875	250	0	0	2125	0	0	60	09/30
MARSH HAWK	711 3310	400	325	150	455	1330	0	0	15	09/16
SHARP-SHINNED HAWK	711 3320	25	25	50	0	100	0	0	5	09/30
COOPER'S HAWK	711 3330	75	25	50	0	150	0	0	5	09/16
RED-TAILED HAWK	711 3370	1900	1400	1025	1365	5690	10	0	45	09/16
RED-SHOULDERED HAWK	711 3390	400	250	0	455	1105	0	0	10	09/16
BROAD-WINGED HAWK	711 3430	20	0	0	1365	1385	0	0	15	06/30
GOLDEN EAGLE	711 3490	0	5	0	0	5	0	0	1	12/02
BALD EAGLE	711 3520	0	160	350	0	510	0	0	13	02/17
SPARROW HAWK	711 3600	200	100	200	735	1235	0	0	20	03/31
BARRED OWL	711 3680	1625	1625	1625	3535	8410	15	0	50	06/30
SCREECH OWL	711 3730	650	650	650	1575	3525	5	0	20	06/30
GREAT HORNED OWL	711 3750	975	975	975	2870	5795	8	0	45	06/30
CONTROL TOTALS	997 0000	151920	45040	42500	202019	9037697	15935	11344	23990	00/00
	TOTAL	303840	90080	85000	404038	18075394	31870	22688		

NATIONAL WILDLIFE REFUGE SYSTEM

PEAK MONTHLY WATERFOWL POPULATIONS

GUTTENBERG DISTRICT

03-3527-04-GTD

SPECIES NAME	JUL 72	AUG 72	SEP 72	OCT 72	NOV 72	DEC 72	JAN 73	FEB 73	MAR 73	APR 73	MAY 73	JUN 73
SPECIAL RECOGNITION BIRDS												
AMERICAN COOT	10	10	4180	14100	10115	10	5	0	30	5455	0	40
WATERFOWL MAINTENANCE												
SWANS												
WHISTLING SWAN	0	0	0	0	1	0	0	0	0	0	0	0
GEESE												
LESSER-SNOW GOOSE	0	0	0	65	25	0	0	0	0	0	0	0
CANADA GOOSE	0	0	18	10	0	0	0	0	75	7	0	0
DUCKS												
COMMON MERGANSER	0	0	0	0	30	110	15	390	1400	75	0	0
RED-BREASTED MERGANSER	0	0	0	0	45	5	0	0	315	425	0	0
HOODED MERGANSER	120	50	25	35	20	0	0	20	30	25	0	0
MALLARD	225	275	660	8675	2830	40	30	40	5610	800	0	260
BLACK DUCK	0	0	20	40	160	5	0	0	55	10	0	0
GADWALL	0	0	25	55	210	0	0	0	70	35	0	0
AMERICAN WIDGEON	0	25	185	325	200	0	0	0	245	565	0	0
GREEN-WINGED TEAL	0	20	60	425	285	0	0	0	120	350	0	0
BLUE-WINGED TEAL	15	2000	1840	1500	50	0	0	0	90	500	0	15
SHOVELER	0	0	20	60	15	0	0	0	70	120	0	0
PINTAIL	0	75	85	145	30	0	0	0	420	350	0	0
WOOD DUCK	1700	1750	1920	1750	215	0	0	0	315	730	0	2200
RED HEAD	0	0	20	40	295	0	0	0	390	250	0	0
CANVASBACK	0	0	0	105	890	0	0	0	2935	900	0	0
LESSER SCAUP	0	0	0	415	3500	15	0	0	14645	14500	0	0
RING-NECKED DUCK	0	0	35	825	975	0	0	0	750	600	0	0
COMMON GOLDENEYE	0	0	5	5	305	30	15	475	1370	5	0	0
BUFFLEHEAD	0	0	0	10	70	0	0	0	250	200	0	0
RUDDY DUCK	0	0	0	10	40	0	0	0	465	300	0	50
TOTAL SWANS	0	0	0	0	1	0	0	0	0	0	0	0
TOTAL GEESE	0	0	18	75	25	0	0	0	75	7	0	0
TOTAL DUCKS	2060	4195	4900	14420	10165	205	60	925	29545	20740	0	2525
TOTAL WATERFOWL	2060	4195	4918	14495	10191	205	60	925	29620	20747	0	2525

NATIONAL WILDLIFE REFUGE SYSTEM

AVERAGE MONTHLY WATERFOWL POPULATIONS

GUTTENBERG DISTRICT

03-3527-04-GTD

SPECIES NAME	JUL 72	AUG 72	SEP. 72	OCT 72	NOV 72	DEC 72	JAN 73	FEB 73	MAR 73	APR 73	MAY 73	JUN 73
SPECIAL RECOGNITION												
BIRDS												
AMERICAN COOT	10	10	2381	11432	2917	6	1	0	1	3689	0	19
WATERFOWL MAINTENANCE												
SWANS												
WHISTLING SWAN	0	0	0	0	1	0	0	0	0	0	0	0
GEESE												
LESSER-SNOW GOOSE	0	0	0	18	5	0	0	0	0	0	0	0
CANADA GOOSE	0	0	6	6	0	0	0	0	39	2	0	0
DUCKS												
COMMON MERGANSER	0	0	0	0	10	59	4	98	564	28	0	0
RED-BREASTED MERGANSER	0	0	0	0	24	2	0	0	181	131	0	0
HOODED MERGANSER	107	50	25	20	9	0	0	5	18	24	0	0
MALLARD	219	250	411	3306	2354	35	14	18	2485	335	0	152
BLACK DUCK	0	0	8	31	69	1	0	0	30	5	0	0
GADWALL	0	0	6	38	99	0	0	0	35	22	0	0
AMERICAN WIDGEON	0	9	106	219	66	0	0	0	169	354	0	0
GREEN-WINGED TEAL	0	4	46	326	83	0	0	0	34	144	0	0
BLUE-WINGED TEAL	15	795	1782	612	23	0	0	0	22	345	0	15
SHOVELER	0	0	16	24	4	0	0	0	26	84	0	0
PINTAIL	0	50	80	90	10	0	0	0	119	200	0	0
WOOD DUCK	1675	1740	1736	862	82	0	0	0	175	665	0	1150
RED HEAD	0	0	9	35	128	0	0	0	182	94	0	0
CANVASBACK	0	0	0	51	372	0	0	0	1666	271	0	0
LESSER SCAUP	0	0	0	224	1196	4	0	0	9502	8580	0	0
RING-NECKED DUCK	0	0	9	306	353	0	0	0	371	254	0	0
COMMON GOLDENEYE	0	0	1	5	99	22	3	166	635	2	0	0
BUFFLEHEAD	0	0	0	5	25	0	0	0	149	85	0	0
RUDDY DUCK	0	0	0	2	17	0	0	0	218	104	0	48
TOTAL SWANS	0	0	0	0	1	0	0	0	0	0	0	0
TOTAL GEESE	0	0	6	24	5	0	0	0	39	2	0	0
TOTAL DUCKS	2016	2898	4235	6156	5023	123	21	287	16581	11727	0	1365
TOTAL WATERFOWL	2016	2898	4241	6180	5029	123	21	287	16620	11729	0	1365

NATIONAL WILDLIFE REFUGE SYSTEM

WATERFOWL USE DAYS

GUTTENBERG DISTRICT

03-3527-04-GTD

SPECIES NAME	JUL 1972-SEP 1972	OCT 1972-DEC 1972	JAN 1973-MAR 1973	APR 1973-JUN 1973	12 MONTH TOTAL
SPECIAL RECOGNITION					
BIRDS					
AMERICAN COOT	72,030	430,650	450	111,240	614,370
WATERFOWL MAINTENANCE					
SWANS					
WHISTLING SWAN	0	30	0	0	30
GEESE					
LESSER-SNOW GOOSE	0	690	0	0	690
CANADA GOOSE	180	180	1,170	60	1,590
DUCKS					
COMMON MERGANSER	0	2,070	19,980	840	22,890
RED-BREASTED MERGANSER	0	780	5,430	3,930	10,140
HOODED MERGANSER	5,460	870	690	720	7,740
MALLARD	26,400	170,850	75,510	14,610	287,370
BLACK DUCK	240	3,030	900	150	4,320
GADWALL	180	4,110	1,050	660	6,000
AMERICAN WIDGEON	3,450	8,550	5,070	10,620	27,690
GREEN-WINGED TEAL	1,500	12,270	1,020	4,320	19,110
BLUE-WINGED TEAL	77,760	19,050	660	10,800	108,270
SHOVELER	480	840	780	2,520	4,620
PINTAIL	3,900	3,000	3,570	6,000	16,470
WOOD DUCK	154,530	28,320	5,250	54,450	242,550
RED HEAD	270	4,890	5,460	2,820	13,440
CANVASBACK	0	12,690	49,980	8,130	70,800
LESSER SCAUP	0	42,720	285,060	257,400	585,180
RING-NECKED DUCK	270	19,770	11,130	7,620	38,790
COMMON GOLDENEYE	30	3,780	24,120	60	27,990
BUFFLEHEAD	0	900	4,470	2,550	7,920
RUDDY DUCK	0	570	6,540	4,560	11,670
TOTAL SWANS	0	30	0	0	30
TOTAL GEESE	180	870	1,170	60	2,280
TOTAL DUCKS	274,470	339,060	506,670	392,760	1,512,960
TOTAL WATERFOWL	274,650	339,960	507,840	392,820	1,515,270

NATIONAL WILDLIFE REFUGE SYSTEM
REPORT OF MISCELLANEOUS OUTPUTS
FY-73

GUTTENBERG DISTRICT
03-3527-04-GTD

TYPE OF OUTPUTS	UNITS	FY TOTAL
PROFESSIONAL SERVICES		
ECOLOGICAL MONITORING BY REFUGE PERSONNEL	PROGRAM	2
BANDING BY REFUGE PERSONNEL	PROGRAM	1
ENVIRONMENTAL PRESERVATION		
NATURAL ENVIROMTS PRESR NATURAL AREAS	ACRE	15,001
OTHER RES NAT AREAS	AREA	1
MISCELLANEOUS WILDLIFE OUTPUTS		
WILDLIFE DIVERSITY	NO. SPECS	350