

NARRATIVE REPORT
UPPER MISSISSIPPI RIVER NATIONAL WILDLIFE REFUGE

Cassville District

Fiscal 1975

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Robert E. Wilson

District Manager

UNITED STATES DEPARTMENT OF THE INTERIOR

U.S. FISH AND WILDLIFE SERVICE

Cassville, Wisconsin

PREFACE

On July 1, 1974, the Guttenberg Aquarium, house and adjoining buildings were transferred to the State of Iowa. The Guttenberg District was incorporated into the Cassville District and the Guttenberg District Manager was moved to the town of Cassville where he assumed the duties of District Manager of the newly enlarged Cassville District.

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I. GENERAL

A. Weather Conditions

<u>MONTH</u>	<u>PRECIPITATION</u>		<u>SNOWFALL</u>	<u>MAX.</u>	<u>TEMPERATURE</u>		<u>NORMAL MEAN AVE.</u>
	<u>TOTAL</u>	<u>NORMAL</u>			<u>MIN.</u>	<u>MEAN AVE.</u>	
July	1.85	3.51		95	52	73.9	72.6
August	4.06	3.73		86	45	67.0	70.5
September	0.62	3.74		81	31	57.6	61.7
October	3.08	2.74		75	25	50.7	50.7
November	1.78	2.59	6.2	65	15	36.8	34.8
December	1.46	1.90	11.6	39	3	25.5	23.5
January	0.90	1.73	6.2	48	-8	20.4	17.7
February	2.53	1.26	25.1	39	-15	19.5	22.0
March	3.33	2.97	17.2	49	-4	24.5	32.2
April	3.78	4.15	8.7	73	14	41.2	47.5
May	2.79	4.67		88	33	61.7	58.0
June	3.75	5.29		90	45	68.4	67.5
<u>ANNUAL TOTALS</u>	<u>29.93</u>	<u>38.28</u>	<u>75.0</u>	<u>95</u>	<u>-15</u>	<u>45.6</u>	<u>46.6</u>

On February 24 and 25, 1975, the district received 10 inches of snow. the snow was accompanied by 55 mph winds. All Grant County, Wisconsin roads were officially closed for one day. Drifts of 15 feet were not uncommon.

The ice on the main channel began to break up the latter part of February and the first tow was seen heading north on March 1, 1975.

B. Habitat Conditions

1. Water

POOL LEVELS

Pool No. 11 at Guttenberg, Iowa

Normal: 604.50

<u>MONTH</u>	<u>HIGHEST LEVEL</u>	<u>LOWEST LEVEL</u>	<u>DATE OF HIGH LEVEL</u>	<u>DATE OF LOW LEVEL</u>
July	608.39	603.31	1	19
August	5.44	3.61	12	31
September	4.60	3.51	11	21
October	4.55	3.38	31	5
November	5.55	4.35	12	28
December	4.94	3.69	18	12
January	4.90	3.98	14	3
February	5.85	4.52	17	5
March	10.28	5.14	24	1
April	16.76	6.00	30	8
May	19.41	8.60	5	31
June	10.31	6.53	30	12

Gauge reading: 8 a. m. tailwater reading L/D 10, Guttenberg, Iowa

Pool No. 10 at Guttenberg, Iowa

Normal: 611.0

<u>MONTH</u>	<u>HIGHEST LEVEL</u>	<u>LOWEST LEVEL</u>	<u>DATE OF HIGH LEVEL</u>	<u>DATE OF LOW LEVEL</u>
July	611.55	609. 95	29	4
August	11.39	11.02	3	20
September	11.36	10.65	30	20
October	11.38	10.90	1	4
November	11.49	10.66	3	26
December	11.30	10.26	16	31
January	10.60	9.77	12	14
February	10.40	9.93	17	5
March	11.79	9.80	22	29
April	17.23	9.42	30	17
May	19.92	10.06	5	29
June	10.94	10.17	12	19

During the year the gates were out a total of 44 days. During this time the Mississippi River was a free-flowing river.

At Dubuque, Iowa, the river crested at 622.8 feet on May 6, 1975. This crest was 5.8 feet above flood stage and about four feet below the record flood of 1965. All landings were completely flooded. The district warehouse was surrounded by water. Another 0.1 foot and water would have entered.

2. Food and Cover

The cooperative farming program left a little over one acre of corn and $8\frac{1}{2}$ acres of grain sorghum standing in the field as the refuge share. High waters in June, 1974, flooded out almost the entire crop on the district.

Because of the water level, the wild rice crop in the Bagley Bottoms was very poor this year.

II. WILDLIFE

A. Migratory Birds

1. Waterfowl

Fall---September-December: The fall migration peaked the second week in September with approximately 16,100 ducks present on the district. Total use for the period was 932,925 days, compared to 843,213 days for the same period last year. Wood ducks(43%), mallards(24%), scaup(14%), blue-winged teal(4%), wigeon(3%), and ringnecks(3%) totaled 91% of the duck-use days for the period. Mid-December still found some mallards, goldeneyes, buffleheads, and common mergansers using what little open water that was present. By the end of December all but a few mergansers had left the district.

Canada geese peaked on the district the second week of October with 80 birds present. Total use for the period was 2,289 days. Snows and blues also peaked the second week of October with 150 birds on the district. Total use was 4,200 days.

The fall migration of coots peaked at 19,500 the first week in October.

Spring---January-April: Spring migration began with the arrival of goldeneyes February 21, with mallards and pintails present by March 1. The migration peaked the first week in April with 97,645 ducks on the district. Total use for the period was 2,042,103 days. This compares to 2,637,534 use-days for the same period last year. As in past years, scaup was the predominant species comprising 57% of the use. Scaup were followed by mallards(11%), canvasbacks(11%), common mergansers(5%), ringnecks(4%), wood ducks(4%), and common goldeneyes(4%). By the end of April the population had dropped to 7,920 ducks with wood ducks, scaup, and mallards making up the majority of the species present.

Canada geese use-days totaled 150 for the period with a peak of 30 birds the first week in April. No snow or blue geese were observed stopping over on the district.

The second week in April found 36 whistling swans using the sloughs in the Wisconsin River Bottoms. They only stayed one day and then moved out.

The spring migration of coots peaked the third week in April with approximately 35,870 present on the district. By the end of April an estimated population of 2500 was present.

Censusing the last two weeks in April was almost impossible because

of the flood conditions. All the bottomland timber was flooded and the ducks were widely dispersed.

Duck-use for the entire year totaled 4,075,953 days. By species wood ducks were the number one (34%). Scaup followed closely with 31% of the use and mallards made up nearly 15%.

The tables that follow list use-days and percentages of use by species for the entire reporting year and each of the migration periods compared with last years data.

TOTAL USE BY SPECIES

SPECIES	TOTAL USE FISCAL 74	TOTAL USE FISCAL 75	PER CENT OF TOTAL	
			FISCAL 74	FISCAL 75
Mallard	901,036	599,025	22.0	14.7
Black	20,718	3,185	0.5	0.1
Gadwall	13,531	7,840	0.3	0.2
Wigeon	159,327	46,970	3.9	1.2
Pintail	68,886	17,990	1.7	0.4
G.W. Teal	23,044	17,745	0.6	0.4
B.W. Teal	93,541	70,210	2.3	1.7
Shoveler	35,048	13,790	0.8	0.3
Wood Duck	680,771	1,395,373	16.6	34.2
Redhead	14,994	3,080	0.4	0.1
Canvasback	123,046	223,965	3.0	5.5
Ringneck	61,153	116,200	1.5	2.8
Scaup	1,577,218	1,296,295	38.6	31.8
C. Goldeneye	111,393	98,105	2.7	2.4
Bufflehead	25,303	21,735	0.6	0.5
Ruddy	19,262	2,765	0.5	0.1
C. Merganser	120,337	104,370	2.9	2.6
R.B. Merganser	7,560	2,835	0.2	0.1
Hooded Merganser	31,275	34,475	0.8	0.8
TOTAL USE DAYS	4,087,443	4,075,953		

USE DAYS FALL (SEPTEMBER-DECEMBER)

<u>SPECIES</u>	<u>USE DAYS FISCAL 74</u>	<u>USE DAYS FISCAL 75</u>	<u>PER CENT OF USE</u>	
			<u>FISCAL 74</u>	<u>FISCAL 75</u>
Mallard	306,628	222,950	36.3	23.9
Black	13,643	1,505	1.6	0.2
Gadwall	4,956	5,425	0.6	0.6
Wigeon	37,464	29,750	4.4	3.2
Pintail	32,116	14,175	3.8	1.5
G.W. Teal	10,514	12,775	1.2	1.4
B.W. Teal	42,749	39,725	5.1	4.3
Shoveler	3,479	10,500	0.4	1.1
Wood Duck	208,040	401,800	24.7	43.1
Redhead	1,322		0.1	
Canvasback	4,483	700	0.5	0.1
Ringneck	6,763	26,075	0.8	2.8
Scaup	133,455	129,675	15.8	13.9
C. Goldeneye	13,608	20,020	1.6	2.1
Bufflehead	9,247	5,635	1.1	0.6
Ruddy	2,170		0.2	
C. Merganser	4,795	4,760	0.6	0.5
R.B. Merganser				
Hooded Merganser	7,581	7,455	0.9	0.8
TOTAL USE DAYS	843,213	932,925		

USE DAYS SPRING(JANUARY-APRIL)

<u>SPECIES</u>	<u>USE DAYS FISCAL 74</u>	<u>USE DAYS FISCAL 75</u>	<u>PER CENT OF USE</u>	
			<u>FISCAL 74</u>	<u>FISCAL 75</u>
Mallard	460,883	214,935	17.5	10.5
Black	7,075	1,680	0.3	0.1
Gadwall	8,575	2,415	0.3	0.1
Wigeon	121,863	17,220	4.6	0.8
Pintail	36,630	3,815	1.4	0.2
G.W. Teal	12,530	3,360	0.5	0.2
B.W. Teal	25,942	18,760	1.0	0.9
Shoveler	30,484	3,290	1.2	0.2
Wood Duck	62,181	85,673	2.4	4.2
Redhead	13,664	3,080	0.5	0.2
Canvasback	118,363	223,265	4.5	10.9
Ringneck	54,390	90,125	2.1	4.4
Scaup	1,427,138	1,166,620	54.1	57.1
C. Goldeneye	97,785	78,085	3.7	3.8
Bufflehead	16,056	16,100	0.6	0.8
Ruddy	9,324	2,765	0.4	0.1
C. Merganser	115,542	99,610	4.4	4.9
R.B. Merganser	7,560	2,835	0.3	0.1
Hooded Merganser	11,549	8,470	0.4	0.4
TOTAL USE DAYS	2,637,534	2,042,103		

2. Other Water Birds

Egrets: Great egrets were observed throughout the summer months. They

peaked at 170 during the month of July. No egrets were observed nesting in any of the district's four heron rookeries.

Herons: Great blue herons began arriving the last week in March and were greeted with cold, snowy weather. In spite of the weather, nesting activities began upon their arrival in the four rookeries. An estimated 801 young herons were produced in the rookeries. Compared to last year, production was down 13%. This reduction could be the result of loss of nests and nesting trees during a severe storm last year.

Green herons are common and nest on the district.

Black-crowned night herons are present in small numbers.

Grebes: Pied-billed grebes were present by the first week in April and reached a peak of 400 the third week in April. The fall population peaked at 650 the first week in October.

Horned grebes are uncommon on the district. One was observed the fourth week in April near the Lynn Hollow boat access.

Gallinules: One common gallinule, a rare visitor, was observed near the Potosi access the last week in April.

Gulls and Terns: The fall influx of herring and ring-billed gulls began the first week in October. Herring gulls peaked at 175 the third week in October and ring-billed gulls peaked the following week at 700. The last ring-billed gulls were observed the second week in December, while the herring gulls had left five weeks earlier. Spring arrivals of both species was noted the fourth week in March. Herring gulls peaked at 800 the second week in April, while ring-billed gulls peaked the same week at 1,500. Populations of 100-200 gulls of both species were present throughout the summer months.

The first two weeks in April approximately 100 Bonapartes gulls were observed near L/D 10 at Guttenberg, Iowa.

Common and black terns were observed frequently throughout the summer months. Common terns peaked at 145 and black terns 110 during the month of August.

3. Shorebirds

Killdeer, greater and lesser yellowlegs, common snipe, woodcock, and sandpipers were present on the district at various times of the year.

On July 16, 1974, a white-faced ibis was observed feeding along the shoreline of Big Pond in Pool 11. This very rare visitor remained on the district for two days before departing.

B. Upland Game Birds

Ruffed grouse and bobwhite quail appear to be increasing on the district. Ring-necked pheasants are present, but in very low numbers.

C. Big Game Animals

The white-tailed deer population continues to be relatively stable.

There were unconfirmed sightings of wild turkeys in the Turkey River Bottoms on the Iowa side of Pool 11.

D. Fur Animals

The muskrat population was down approximately 40% from last year. Prior to the trapping season the district's muskrat population was estimated at 53,673. With the high price of pelts, muskrat trapping pressure was great. This pressure was reflected in the take of 26,688 rats, nearly half the estimated population. The combined trapping pressure and lower population will no doubt have an adverse effect on the rat population next year.

The beaver population appears to be remaining stable with relatively little trapping pressure, primarily because of the poor market value of the pelts.

Otter are still found on the district, but in very few numbers. Otter signs were seen on several islands during the winter months, but no actual sightings were made.

Raccoons had a good year and appeared to increase in numbers. Trapping and hunting pressure increased also with an increase in the value of pelts.

E. Eagles

The first bald eagle, an immature, was observed on October 11, 1974. Two immatures and an adult were seen the following day. The winter population built up to a peak of 60 the last week in December. During the months of January and February, the numbers fluctuated from 30 to 45 and built back up to 60 again in early March. The last eagle on the district was observed April 26, 1975. Total bald eagle use days for the year was 5,145.

There were no golden eagles observed this year.

F. Other Birds

Two to three osprey were observed regularly throughout the latter summer and early fall months. One was observed fishing along the main channel, while another was seen fishing along a backwater slough.

Turkey vultures peaked at 160 in early October. They are common sights riding the air currents above the bluffs, where they also nest. One group of 30 was observed on one sandbar, evidently cleaning up a large dead carp that had floated ashore.

G. Fish

Nothing significant to report.

H. Reptiles

Nothing significant to report.

I. Disease

Dutch elm disease is progressing at a rapid rate. Within a very few years the elm will be gone in the river bottoms.

J. Rare and Endangered Species

Nothing to report.

III. REFUGE DEVELOPMENT AND MAINTENANCE

A. Physical Development

1. Development

The district is considered to be in a nearly complete state of development as far as wildlife management is concerned. There most probably will be further development advisable and necessary in the future from the aspect of increasing public use, but this will await planned surveys and investigations toward a refuge-wide public use facilities development program when funds are so provided.

2. Maintenance

Main channel boundaries were checked and signs replaced where needed. The closed area boundary was checked and posted prior to the opening of waterfowl season.

Routine maintenance of the public aquarium, buildings and grounds prior to transfer to the State of Iowa.

Moved office equipment, tools, supplies, etc. to Cassville.

Routine maintenance of public access sites and septic toilets.

Repaired high water damage to Dago Slough farm unit road.

B. Plantings

1. Aquatics and Marsh Plants

None

2. Trees and Shrubs

None

3. Upland Herbaceous Plants

None

4. Cultivated Crops

Because of wet field conditions, four of the eight cooperative farming permittees were unable to plant a crop this year. Those affected were the larger areas on the Turkey River Bottoms. The refuge share of what was planted consisted of 8.5 acres of grain sorghum and a little over one acre of corn left standing.

C. Collections and Receipts

1. Seed or other Propagules

None

2. Specimens

Two pied-billed grebes, two mallards, and one wood duck were donated to the Guttenberg Community School for educational purposes.

D. Control of Vegetation

The use of herbicides was limited to atrazine used by cooperative farming permittees for the control of giant foxtail, pigweed, and sedge.

E. Planned Burning

None

F. Fires

None

IV. RESOURCE MANAGEMENT

A. Grazing

None

B. Haying

None

C. Fur Harvest

This trapping season 305 permits were issued compared to 286 last season. A total of 20,499 muskrats, 138 beaver, 38 mink, 149 raccoon, 85 opossum, and 6 fox were taken on the district. Total receipts for the sale of pelts was \$53,775.81. The muskrat harvest was down from the 26,361 taken last year.

D. Timber

None

E. Commercial Fishing

The commercial fisherman had a good year. Buffalo was bringing an average of \$.29 a pound in the Chicago markets. Channel catfish brought anywhere from \$.75 - 1.00 a pound. The majority of the channel cats are sold locally.

F. Other Uses

Nothing to report.

V. FIELD INVESTIGATION OR APPLIED RESEARCH

A. Wood Duck Management Studies

Brood counts were run from 7/3 to 7/17/74. A total of 79 wood duck broods were observed. Wood duck production was estimated at 7,308. Mallard production appeared to be down from last year and was estimated at 100. Hooded mergansers were estimated to have produced 119 young.

B. Wood Duck Banding

This years banding activities began on July 19, 1974, with preparation of the banding sites. The first shot was fired on July 24. The banding season was wrapped up on 8/23/74. A total of 255 wood ducks was banded.

The breakdown on the number and age classes banded for the district is listed below:

<u>AHYM</u>	<u>AHYF</u>	<u>HYM</u>	<u>HYF</u>
9	8	125	113

C. Waterfowl Hunter Bag Checks

For the first time the district personnel participated in the State of Wisconsin Statistical bag check program. This program required quite a bit of time, involving predetermined times and areas for car counts and bag checks. Because of this participation and the shortage in manpower, law enforcement and non-statistical bag checks suffered.

A total of 100 hunters were checked this season. They averaged about 1.0 ducks per day. Wood ducks made up 41% of the bag. Mallards followed with 35%. Blue-winged teal only made up 11% of the bag. A cold spell just prior to the opening of the season resulted in the majority of blue-wing teal leaving the area.

D. Vegetative Transects

A vegetative transect was run on Big Pond on 12-mile Island on September 6, 1974. On the extremities of the transect mallow, nettles, and willow were common. The interior portion found spike rush, manna grass, and Chufa the predominant species. Smartweed, wild millet, and sagittaria were scattered.

VI. PUBLIC RELATIONS

A. Recreational Use

The district recorded 534,365 total visits. This compares to 492,151 visits last year. Of the total use, fishing accounted for 284,779 visits this year, compared to 246,635 last year. Hunting visits also increased this year from 7,560 last to 9,415 this year.

B. Refuge Participation

Eighteen programs or tours were presented to 1014 persons during the year. These included National Wildlife Week programs, Aquarium tours, rookery tours, Wisconsin Girls Conservation Camp, and general slide talks.

C. Hunting

Small game hunters enjoyed a fair to good squirrel and rabbit season this year. Iowa squirrel season opened abnormally early on August 17. This early opening received criticism by some of the biologically oriented hunters. Raccoon hunting on the refuge islands and bottoms continued to gain in popularity.

Iowa had a 5 day shotgun deer hunting season again this year. A total of 34,000 licenses were issued in the 5 state zones. The majority of these permits were for antlered deer only.

Wisconsin Grant and Crawford counties had a 3 day shotgun and rifle deer season this year. Hunters could legally take either sex.

Because the duck season had closed, both of the refuge closed areas were open to deer hunting. The Dago Slough closed area particularly received heavy hunting pressure. An estimated 5 deer were harvested on refuge lands in the district.

The Iowa waterfowl season opened at sunrise October 5, 1974. Once again Iowa elected to take the point system and a split season. The first part of the season closed October 12, and reopened October 26, running through December 1. Early shooting on opening day in some areas was a problem. It was reported in one area that some hunters had their bag limits before the legal opening time.

Wisconsin waterfowl season opened at noon on October 6, 1974, and continued one-half hour before sunrise through November 20. As Iowa, Wisconsin had the point system.

In both states duck hunting pressure was heavy for about the first two weeks. Except for the second opener in Iowa, pressure dropped to practically zero the last few weeks.

D. Violations

During the waterfowl season 2 individuals were apprehended for over-bagging and one for taking two pied-billed grebes; he thought they were wood ducks.

Trapping violations detected included trapping out of season and staking prior to the noon opening.

E. Safety

There were no lost-time accidents involving district personnel this year. The summer assistants were given safety instructions throughout the summer.

VII. OTHER ITEMS

A. Items of Interest

District Manager, Bill Hutchinson, transferred to the Kofa Game Range, Yuma, Arizona on January 16, 1974.

Summer assistants for July-September, 1974, were Craig Beauduy, a graduate of the University of Minnesota and Stan Skutek, a University

of Wisconsin at Stevens Point graduate. The summer of 1975 found the district without a regular summer assistant.

B. Credits

Report written and typed by Robert E. Wilson.

SIGNATURE PAGE

Submitted by:

Robert E. Wilson
(Signature)

Date: December 13, 1975

Robert E. Wilson
District Manager
Title

Approved, Regional Office:

Date: _____

(Signature)

Regional Refuge Supervisor

DISTRICT: Cassville

MONTH:

July F.Y. 75

F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending: 7/6	7/13	7/20	7/27	8/3	MONTHLY	
							TOTAL	AVERAGE
COOT	2100	60	60	60	60	300	60	
SWAN								
CANADA GOOSE								
WHITE FRONT								
SNOW/BLUE								
OTHER								
TOTAL GEESE								
MALLARD BLACK	47,775	1,365	1,365	1,365	1,365	6,825	1,365	
GADWALL								
WIDGEON								
PINTAIL								
G.W. TEAL								
B.W. TEAL	4,025	115	115	115	115	575	115	
SHOVELER								
WOOD DUCK REDHEAD	395,500	11,300	11,300	11,300	11,300	56,500	11,300	
CANVASBACK								
RING-NECK								
SCAUP								
GOLDENEYE								
BUFFLEHEAD								
RUDDY								
OLD SQUAW								
SCOTER								
COMMON MERGANSER								
RED BR. MERGANSER								
HOODED MERGANSER	8,750	250	250	250	250	1,250	250	
TOTAL DUCKS	456,050	13,030	13,030	13,030	13,030	65,150		

DISTRICT: Cassville

MONTH: _____

August F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending: 8/10	8/17	8/24	8/31	MONTHLY TOTAL	AVERAGE
COOT	1,680	60	60	60	60	240	60
SWAN							
CANADA GOOSE							
WHITE FRONT							
SNOW/BLUE							
OTHER							
TOTAL GEESE							
MALLARD BLACK	56,665	1,365	1,680	2,150	2,900	8,095	2,024
GADWALL							
WIDGEON							
PINTAIL							
G.W. TEAL	1,610				230	230	58
B.W. TEAL	7,100	95	205	325	475	1,100	275
SHOVELER							
WOOD DUCK	355,600	14,300	14,800	13,700	14,000	50,800	12,700
REDHEAD							
CANVASBACK							
RING-NECK							
SCAUP							
GOLDENEYE							
BUFFLEHEAD							
RUDDY							
OLD SQUAW							
SCOTER							
COMMON MERGANSER							
RED BR. MERGANSER							
HOODED MERGANSER	7,000	250	250	250	250	1,000	250
TOTAL DUCKS	428,575	13,010	13,935	16,425	17,855	64,225	

DISTRICT: CassvilleMONTH: September F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending: 9/7	9/14	9/21	9/28	MONTHLY TOTAL	AVERAGE
COOT	69,510	50	80	250	9,550	9,930	2,483
SWAN							
CANADA GOOSE	14			(9/27) 14			
WHITE FRONT						14	4
SNOW/BLUE							
OTHER							
TOTAL GEESE	14				14	14	4
MALLARD	80,500	2,600	3,100	2,800	3,000	11,500	2,875
BLACK	525		25	25	25	75	19
GADWALL	1,050		50	50	50	150	38
WIDGEON	3,325		150	150	175	475	118
PINTAIL	7,350		450	200	400	1,050	263
G.W. TEAL	5,450	100	150	200	300	750	188
B.W. TEAL	28,700	350	1,200	1,350	1,200	4,100	1,025
SHOVELER	10,500	300	350	500	350	1,500	375
WOOD DUCK	286,300	10,800	10,800	10,600	8,700	40,900	10,225
REDHEAD							
CANVASBACK							
RING-NECK							
SCAUP							
GOLDENEYE							
BUFFLEHEAD							
RUDDY							
OLD SQUAW							
SCOTER							
COMMON MERGANSER							
RED BR. MERGANSER							
HOODED MERGANSER	4,900	175	175	175	175	700	175
TOTAL DUCKS	417,900	14,025	16,100	15,550	14,025	59,700	

DISTRICT: CassvilleMONTH: OctoberF.Y. 75

WATERFOWL POPULATIONS	DAYS USE : FOR PERIOD	Week ending: 10/5	10/12	10/19	10/26	11/2	MONTHLY TOTAL	AVERAGE
COOT	542,500	19,500	17,500	16,500	12,000	12,000	77,500	15,500
SWAN								
CANADA GOOSE								
WHITE FRONT	2,275	65	80	80	55	45	325	65
SNOW/BLUE	4,200	100	150	150	100	100	600	120
OTHER								
TOTAL GEESE	6,475	165	230	230	155	145	925	
MALLARD								
BLACK	70,000	2,650	1,850	1,600	1,600	2,300	10,000	2,000
GADWALL	4,375	150	125	150	100	20	60	12
WIDGEON	21,525	550	775	650	550	100	625	125
PINTAIL	4,550	175	100	125	125	550	3,075	615
G.W. TEAL	7,350	350	275	200	125	125	650	130
B.W. TEAL	11,025	900	300	225	100	100	1,050	210
SHOVELER							1,575	315
WOOD DUCK	119,000	7,000	4,700	3,000	1,800	500	17,000	3,400
REDHEAD								
CANVASBACK								
RING-NECK	12,075	100	250	350	375	650	1,725	345
SCAUP	64,400	50	1,000	1,600	3,250	3,300	9,200	1,840
GOLDENEYE								
BUFFLEHEAD								
RUDDY								
OLD SQUAW								
SCOTER								
COMMON Merganser								
RED BR. Merganser								
HOODED Merganser	2,555	145	80	80	50	40	365	73
TOTAL DUCKS	317,275	12,050	9,465	7,990	8,085	7,735	45,325	

DISTRICT: CassvilleMONTH: November F. Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending:	11/16	11/23	11/30	MONTHLY TOTAL	AVERAGE
COOT	64,400	7,000	2,000	200		9,200	2,300
SWAN							
CANADA GOOSE							
WHITE FRONT							
SNOW/BLUE							
OTHER							
TOTAL GEESE							
MALLARD	68,250	1,800	3,650	2,750	1,550	9,750	2,438
BLACK	560	40	40			80	20
GADWALL							
WIDGEON	4,900	500	200				
PINTAIL	2,275	175	150			700	175
G.W. TEAL	175	25				325	82
B.W. TEAL						25	6
SHOVELER							
WOOD DUCK	3,500	250	150	100	50	550	125
REDHEAD							
CANVASBACK	700	100					
RING-NECK	14,000	1,000	700	150	150	100	25
SCAUP	65,275	4,100	3,100	4,600	525	9,325	2,331
GOLDENEYE	9,520		60	150	1,150	1,360	340
BUFFLEHEAD	4,235	40	115	200	250	605	151
RUDDY							
OLD SQUAW							
SCOTER							
COMMON Merganser	525	10	10	20	35	75	19
RED BR. Merganser							
HOODED Merganser							
TOTAL DUCKS	173,915	8,040	8,175	4,970	3,710	24,895	

DISTRICT: CassvilleMONTH: December F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending: 12/17	12/14	12/21	12/28	1/4	MONTHLY TOTAL	AVERAGE
COOT	:	:	:	:	:	:	:	:
SWAN	:	:	:	:	:	:	:	:
CANADA GOOSE	:	:	:	:	:	:	:	:
WHITE FRONT	:	:	:	:	:	:	:	:
SNOW/BLUE	:	:	:	:	:	:	:	:
OTHER	:	:	:	:	:	:	:	:
TOTAL GEESE	:	:	:	:	:	:	:	:
MALLARD BLACK	:	4,200	250	250	100	:	600	120
GADWALL	:	:	:	:	:	:	:	:
WIDGEON	:	:	:	:	:	:	:	:
PINTAIL	:	:	:	:	:	:	:	:
G.W. TEAL	:	:	:	:	:	:	:	:
B.W. TEAL	:	:	:	:	:	:	:	:
SHOVELER	:	:	:	:	:	:	:	:
WOOD DUCK	:	:	:	:	:	:	:	:
REDHEAD	:	:	:	:	:	:	:	:
CANVASBACK	:	:	:	:	:	:	:	:
RING-NECK	:	:	:	:	:	:	:	:
SCAUP	:	:	:	:	:	:	:	:
GOLDENEYE	:	10,500	750	750	:	:	4,500	300
BUFFLEHEAD	:	1,400	100	100	:	:	200	40
RUDDY	:	:	:	:	:	:	:	:
OLD SQUAW	:	:	:	:	:	:	:	:
SCOTER	:	:	:	:	:	:	:	:
COMMON MERGANSER	:	4,235	20	175	300	50	605	121
RED BR. MERGANSER	:	:	:	:	:	:	:	:
HOODED MERGANSER	:	:	:	:	:	:	:	:
TOTAL DUCKS	:	29,335	420	1,275	400	50	2,905	:

**Cassville District
Upper Mississippi Refuge.**

DISTRICT:

MONTH:

F V 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending	MONTHLY	
			TOTAL	AVERAGE
COOT				
SWAN				
CANADA GOOSE				
WHITE FRONT				
SNOW/BLUE				
OTHER				
TOTAL GEESE				
MALLARD				
BLACK				
GADWALL				
WIDGEON				
PINTAIL				
G.W. TEAL				
B.W. TEAL				
SHOVELER				
WOOD DUCK				
REDHEAD				
CANVASBACK				
RING-NECK				
SCAUP				
GOLDENEYE				
BUFFLEHEAD				
RUDDY				
OLD SQUAW				
SCOTER				
COMMON MERGANSER				
RED BR. MERGANSER				
HOODED MERGANSER				
TOTAL DUCKS				

DISTRICT: Cassville Foot 10411MONTH: February F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending: 2/8	2/15	2/22	3/1	MONTHLY TOTAL	AVERAGE
COOT	:	:	:	:	:	:	:
SWAN	:	:	:	:	:	:	:
CANADA GOOSE	:	:	:	:	:	:	:
WHITE FRONT	:	:	:	:	:	:	:
SNOW/BLUE	:	:	:	:	:	:	:
OTHER	:	:	:	:	:	:	:
TOTAL GEESE	:	:	:	:	:	:	:
MALLARD	:	:	:	:	:	:	:
BLACK	:	70	:	:	31/10	10	3
GADWALL	:	:	:	:	:	:	:
WIDGEON	:	:	:	:	:	:	:
PINTAIL	:	105	:	:	31/15	15	4
G.W. TEAL	:	:	:	:	:	:	:
B.W. TEAL	:	:	:	:	:	:	:
SHOVELER	:	:	:	:	:	:	:
WOOD DUCK	:	:	:	:	:	:	:
REDHEAD	:	:	:	:	:	:	:
CANVASBACK	:	:	:	:	:	:	:
RING-NECK	:	:	:	:	:	:	:
SCAUP	:	:	:	:	:	:	:
GOLDENEYE	:	700	:	31/50	50	100	25
BUFFLEHEAD	:	:	:	:	:	:	:
RUDDY	:	:	:	:	:	:	:
OLD SQUAW	:	:	:	:	:	:	:
SCOTER	:	:	:	:	:	:	:
COMMON MERGANSER	:	7,700	250	300	300	1100	275
RED BR. MERGANSER	:	:	:	:	:	:	:
HOODED MERGANSER	:	:	:	:	:	:	:
TOTAL DUCKS	:	8,575	250	350	375	1225	:

POOL 10

Cassville District
Upper Mississippi Refuge

DISTRICT:

MONTH:

MarchF. Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending:	3/8	3/15	3/22	3/29	MONTHLY TOTAL	AVERAGE
COOT	3,045	:	:	:	:	435	435	109
SWAN	:	:	:	:	:	:	:	:
CANADA GOOSE	483	:	:	:	:	69	69	17
WHITE FRONT	:	:	:	:	:	:	:	:
SNOW/BLUE	:	:	:	:	:	:	:	:
OTHER	:	:	:	:	:	:	:	:
TOTAL GEESE	483	:	:	:	:	69	69	17
MALLARD	1,365	:	:	:	:	195	195	49
BLACK	70	:	:	:	:	10	10	2
GADWALL	154	:	:	:	:	22	22	5
WIDGEON	:	:	:	:	:	:	:	:
PINTAIL	:	:	:	:	:	:	:	:
G.W. TEAL	:	:	:	:	:	:	:	:
B.W. TEAL	:	:	:	:	:	:	:	:
SHOVELER	:	:	:	:	:	:	:	:
WOOD DUCK	140	:	:	:	:	20	20	5
REDHEAD	350	:	:	:	:	50	50	12
CANVASBACK	4,690	:	:	:	:	670	670	167
RING-NECK	7,560	:	:	:	:	1,080	1,080	270
SCAUP	60,900	:	:	:	:	8,700	8,700	2175
GOLDENEYE	13,580	:	15	15	400	1,510	1,940	485
BUFFLEHEAD	910	:	:	:	:	130	130	32
RUDDY	:	:	:	:	:	:	:	:
OLD SQUAW	:	:	:	:	:	:	:	:
SCOTER	:	:	:	:	:	:	:	:
COMMON Merganser	19,145	:	75	75	800	1,785	2,735	684
RED BR. Merganser	:	:	:	:	:	:	:	:
HOODED Merganser	2,660	:	:	:	:	380	380	95
TOTAL DUCKS	111,524	:	90	90	1,200	14,552	15,932	:

Cassville District
Upper Mississippi Refuge

DISTRICT:

POOLS 10 + 11

MONTH:

April

F. Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending:	4/5	4/12	4/19	* 4/26	** 5/3	MONTHLY TOTAL	AVERAGE
COOT	484,190	7,400	19,820	35,870	2,500	69,170	13,834		
SWAN	36		36						
CANADA GOOSE	150	30							
WHITE FRONT									
SNOW/BLUE									
OTHER									
TOTAL GEESE	150	30						30	6
MALLARD	212,590	18,100	5,700	3,820	1,550	1,200	30,370	6,074	
BLACK	1,680	130	80	30			240	48	
GADWALL	2,415		245	100			345	69	
WIDGEON	17,115	250	985	970	190	50	2,445	489	
PINTAIL	3,710	80	400	50			530	106	
G.W. TEAL	3,360		180	270	30		480	96	
B.W. TEAL	18,760		880	1,170	330	300	2,680	536	
SHOVELER	3,185		355	20			455	91	
WOOD DUCK	85,435	1,085	1,370	3,250	3,250	12,205	2,441		
REDHEAD	1,330	100	50	20			190	38	
CANVASBACK	186,165	13,410	7,385	5,600	200		26,595	5,319	
RING-NECK	88,025	5,300	3,175	3,730	330	40	12,575	2,515	
SCAUP	1,150,590	46,480	49,790	45,050	20,050	3,000	164,370	32,874	
GOLDENEYE	53,620	6,300	1,080	200	80		7,660	1,532	
BUFFLEHEAD	9,975	500	475	300	150		1,425	285	
RUDDY	2,345	220	75	40			335	67	
OLD SQUAW									
SCOTER									
COMMON Merganser	55,860	5,240	1,500	1,230	10		7,980	1,596	
RED BR. Merganser	2,835		45	260	70	30	405	81	
HOODED Merganser	5,145	370	215	50	50		735	147	
TOTAL DUCKS	1,904,140	97,645	73,985	66,160	26,310	7,920	272,020		

* Partially estimated due to high water. ** Entirely estimated due to high water.

Cassville District
Upper Mississippi Refuge

DISTRICT:

MONTH: May F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending:	5/17	5/24	5/31	MONTHLY TOTAL	AVERAGE
COOT	7,350	600	300	75	75	1050	263
SWAN							
CANADA GOOSE							
WHITE FRONT							
SNOW/BLUE							
OTHER							
TOTAL GEESE							
MALLARD	28,700	1100	1000	1000	1000	4100	1025
BLACK							
GADWALL							
WIDGEON							
PINTAIL							
G.W. TEAL							
B.W. TEAL							
SHOVELER							
WOOD DUCK	78,400	2800	2800	2800	2800	11,200	2800
REDHEAD							
CANVASBACK							
RING-NECK							
SCAUP							
GOLDENEYE							
BUFFLEHEAD							
RUDDY							
OLD SQUAW							
SCOTER							
COMMON Merganser							
RED BR. Merganser							
HOODED Merganser	1,400	50	50	50	50	200	50
TOTAL DUCKS	108,500	3450	3850	3850	3850	15,500	

Cassville District
Upper Mississippi Refuge

DISTRICT:

MONTH: June F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending:	6/7	6/14	6/21	6/28	MONTHLY TOTAL	AVERAGE
COOT	:	:	:	:	:	:	:	:
SWAN	:	:	:	:	:	:	:	:
CANADA GOOSE	:	:	:	:	:	:	:	:
WHITE FRONT	:	168	6	6	6	6	24	6
SNOW/BLUE	:	:	:	:	:	:	:	:
OTHER	:	:	:	:	:	:	:	:
TOTAL GEESE	:	168	6	6	6	6	24	6
MALLARD	:	:	:	:	:	:	:	:
BLACK	:	28,000	1000	1000	1000	1000	4000	1000
GADWALL	:	:	:	:	:	:	:	:
WIDGEON	:	:	:	:	:	:	:	:
PINTAIL	:	:	:	:	:	:	:	:
G.W. TEAL	:	:	:	:	:	:	:	:
B.W. TEAL	:	:	:	:	:	:	:	:
SHOVELER	:	:	:	:	:	:	:	:
WOOD DUCK	:	78,400	2800	2800	2800	2800	11,200	2800
REDHEAD	:	:	:	:	:	:	:	:
CANVASBACK	:	:	:	:	:	:	:	:
RING-NECK	:	:	:	:	:	:	:	:
SCAUP	:	:	:	:	:	:	:	:
GOLDENEYE	:	:	:	:	:	:	:	:
BUFFLEHEAD	:	:	:	:	:	:	:	:
RUDDY	:	:	:	:	:	:	:	:
OLD SQUAW	:	:	:	:	:	:	:	:
SCOTER	:	:	:	:	:	:	:	:
COMMON Merganser	:	:	:	:	:	:	:	:
RED BR. Merganser	:	:	:	:	:	:	:	:
HOODED Merganser	:	1,400	50	50	50	50	200	50
TOTAL DUCKS	:	107,800	3850	3850	3850	3850	15,400	:

NATIONAL WILDLIFE REFUGE SYSTEM

MONTHLY REPORT

VISITS BY MONTH

CASSIUS DISTRICT
03-007-05-000

ACTIVITY NAME	JUL-74	AUG-74	SEP-74	OCT-74	NOV-74	DEC-74	JAN-75	FEB-75	MAR-75	APR-75	MAY-75	JUN-75	12 MONTH TOTAL
TOTAL EDUCATION	25												25
TOTAL HUNTING		15	260	5460	2475	735	350						9295
TOTAL FISHING	31143	23095	22022	40397	14355	23000	16000	12500	7700	12750	14500	14780	232743
TOTAL OTHER W/H RECREATION	63672	41000	21057	44295	18267	9270	4770	4900	6140	27260	26320	44230	311191
TOTAL PUBLIC USE	120673	127420	91535	107762	25507	22045	21120	17490	14540	40086	46320	116010	771648
TOTAL WILDLIFE ORIENTED	94340	67410	44160	90120	25507	23095	21120	17490	14540	40086	40820	59010	558217
TOTAL NON-WILDLIFE ORIENTED	25333	60010	47416	17632		40					5500	57000	213431
NO. VISITS TO REFUGE	61571	29370	55139	50072	19080	22755	15048	11781	8316	13307	16740	57007	361236

NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
SPECIAL RECOGNITION SPECIES
(EXCLUDING WATERFOWL)
FY-75

CASSVILLE DISTRICT
03-3527-C5-C50

SPECIES NAME	***** USE DAYS *****										FY-NO.	FY-NO.	FY-PEAK
	LINE CODE	JUL-SEP 74	OCT-DEC 74	JAN-MAR 75	APR-JUN 75	FY TOTAL	PRODUCED	HARVESTED	POPULATION	DATE			
THREATENED SPECIES													
STATUS-UNDETERMINED													
OSPREY	704 3640	140	C	0	0	140	0	0	6	09/21			
SPECIAL RECOGNITION													
BIRDS													
HORNED GREBE	711 0030	0	0	0	0	0	0	0	0	0	0	0	0
LEAST GREBE	711 0050	0	0	0	0	0	0	0	0	0	0	0	0
PIED-BILLED GREBE	711 0060	8505	15750	0	0	17780	0	0	400	04/19			
COMMON LOON	711 0070	0	0	0	0	0	0	0	650	10/05			
HERRING GULL	711 0510	5880	6125	1540	0	28350	0	0	1	10/26			
RING-BILLED GULL	711 0540	12460	30450	3850	0	56700	0	0	800	04/12			
BONAPARTE'S GULL	711 0600	0	0	0	0	1050	0	0	1500	04/12			
COMMON TERN	711 0700	4550	0	910	0	10850	0	0	100	04/05			
BLACK TERN	711 0770	1610	0	0	0	1610	0	0	200	04/05			
DOUBLE-CRESTED CORMORANT	711 1200	10	5	0	0	140	0	0	80	08/10			
AMERICAN BITTERN	711 1900	1680	0	0	0	3570	0	0	15	04/19			
LEAST BITTERN	711 1910	350	0	0	0	0	0	0	50	04/26			
GREAT BLUE HERON	711 1940	193830	31850	525	0	149100	0	0	7	03/31			
GREAT (COMMON) EGRET	711 1960	12810	1610	0	0	5390	0	0	2530	09/07			
GREEN HERON	711 2010	35490	2590	0	0	12775	0	0	170	03/24			
BLACK-CROWNED NIGHT HERON	711 2020	1260	0	0	0	1540	0	0	475	08/10			
SUKA	711 2140	9800	2800	0	0	19950	0	0	20	09/28			
AMERICAN WOODCOCK	711 2280	3640	2655	560	0	6650	0	0	1000	05/24			
COMMON SNIPES	711 2300	1960	5600	0	0	5215	0	0	100	05/24			
LONG-BILLED OWL	711 2320	70	0	0	0	0	0	0	150	11/16			
UNIDENTIFIED SANDPIPER	711 2467	0	0	0	0	9100	0	0	5	03/07			
GREATER YELLOWLEGS	711 2540	350	525	0	0	0	0	0	150	04/05			
LESSER YELLOWLEGS	711 2550	4060	3325	0	0	770	0	0	75	10/26			
SPOTTED SANDPIPER	711 2630	8750	0	0	0	0	0	0	125	10/05			
BLACK-BELLIED PLOVER	711 2700	7	0	0	0	0	0	0	200	08/24			
KILLDEER	711 2730	8960	7700	630	0	13300	0	0	1	08/24			
RUDDY TURNSTONE	711 2830	7	0	0	0	0	0	0	200	10/05			
MOURNING DOVE	711 3160	0	0	0	0	0	0	0	1	09/04			
TURKEY VULTURE	711 3250	7280	5390	140	0	9940	0	0	425	05/30			
MARSH HAWK	711 3310	910	0	280	0	2660	0	0	160	10/05			
SHARP-SHINNED HAWK	711 3320	910	0	280	0	2660	0	0	30	04/12			
COOPER'S HAWK	711 3330	0	0	140	0	910	0	0	30	04/12			
RED-TAILED (HARLAN) HAWK	711 3370	5460	10920	10010	0	12530	0	0	10	03/22			
RED-SPOOLED HAWK	711 3390	910	840	210	0	1820	0	0	140	04/12			
BROAD-WINGED HAWK	711 3430	210	840	0	0	0	0	0	20	10/05			
ROUGH-LEGGED HAWK	711 3470	910	840	1820	0	1820	0	0	20	10/05			
BALD EAGLE	711 3520	0	1400	3654	0	91	0	0	60	12/28			
AM. KESTREL (SPARROW HAWK)	711 3600	4550	2520	140	0	6860	0	0	100	10/05			

NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
SPECIAL RECOGNITION SPECIES
(EXCLUDING WATERFOWL)
FY-75

CASSVILLE DISTRICT
03-3527-C5-CSU

SPECIES NAME	LINE CODE	*****--USE DAYS--*****						FY-NO. PRODUCED	FY-NO. HARVESTED	FY-PEAK POPULATION	DATE
		JUL-SEP 74	OCT-DEC 74	JAN-MAR 75	APR-JUN 75	JUL-SEP 75	TOTAL				
BARRED OWL	711 3680	13650	27300	25200	25025	91175	91175	50	0	300	10/05
SCREECH OWL	711 3730	4550	9100	7420	7280	28350	28350	15	0	100	10/05
GREAT HORNED OWL	711 3750	9100	18200	16520	16380	60200	60200	30	0	200	10/05
TOTAL		364619	188377	73825	430213	1102498	1102498	1561	0		

NATIONAL WILDLIFE REFUGE SYSTEM
LAND USE INVENTORY REPORT
FY - 75

CASSVILLE DISTRICT
03-3527-05-CSD

LAND CLASSIFICATION ACREAGE

I. DETAILED CLASSIFICATIONS

WETLAND TYPES	
INLAND FRESH AREAS	4,490.0
SEASONALLY FLOOD BASIN/FLAT	3,366.0
SHALLOW FRESH MARSHES	3,074.0
DEEP FRESH MARSHES	1,414.0
OPEN FRESH WATER	
OTHER WETLANDS	
RIVERS AND STREAMS	14,937.0
UPLAND TYPES	
CROPLANDS	202.5
IRRIGATED - HOT FIELDS	
FORESTLANDS	8,887.5
NON-COMMERCIAL FORESTS	
OTHER LAND TYPES	
ADMINISTRATIVE	1.0
GENERAL	
TOTAL ACRES	36,372.0

II. SUMMARY CLASSIFICATIONS

INLAND FRESH AREAS	12,344.0
OTHER WETLANDS	14,937.0
WETLAND TYPES	27,281.0
CROPLANDS	202.5
FORESTLANDS	8,887.5
UPLAND TYPES	5,090.0
ADMINISTRATIVE	1.0
OTHER LAND TYPES	1.0

NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
(WATERFOWL ONLY)

FY-75

CASSVILLE DISTRICT
CS-3227-05-030

SPECIES NAME SPECIAL RECOGNITION	*****--USE DAYS-----*****				FY-NO.		FY-NO.		FY-PEAK		DATE
	LINE CODE	JUL-SEP 74	OCT-DEC 74	JAN-MAR 75	APR-JUN 75	FY TOTAL	PRCCUCED	HARVESTED	POPULATION		
BIRDS	711	2210	58050	534000	4470	422910	1019430	0	C	35870	04/10
WATERFOWL MAINTENANCE											
SWANS	731	1800			C	210	210	0	0	36	04/12
GESE											
SWAN GOOSE	732	1690	0	-3600	0	0	3600	0	0	150	10/12
CANADA GOOSE	732	1720	120	1950	510	360	2940	0	C	80	10/07
DUCKS											
COMMON MERGANSER	733	1290	0	4200	67380	47880	119460	0	0	5335	03/05
RED-NECKED MERGANSER	733	1300	0	0	0	2430	2430	0	0	260	04/19
HOODED MERGANSER	733	1310	5750	2190	6420	7410	25770	0	C	855	03/07
MALLARD	733	1320	90510	136740	3990	242970	474210	0	735	18100	04/07
BLACK DUCK	733	1330	570	960	100	1440	3150	0	C	130	04/05
GADWALL	733	1350	1140	3750	2070	2070	6960	0	0	245	04/12
AMERICAN WIGEON	733	1370	3540	23700	270	14670	42180	0	77	985	04/12
GREEN-WINGED (CINN.) TEAL	733	1390	6000	6480	C	2880	15360	0	81	350	10/19
BLUE-WINGED TEAL	733	1400	27240	9450	0	16080	52770	0	65	1170	04/19
NORTHERN SHOVELLER	733	1420	0	C	120	2730	2850	0	0	355	04/12
PLATEAU	733	1430	5640	6360	120	3180	15300	0	0	450	09/12
WOOD DUCK	733	1440	549000	105750	350	241230	896370	0	755	8500	03/07
FLORENTINE	733	1460	0	C	2250	1140	3390	0	0	300	03/05
CANVASBACK	733	1470	0	750	44760	159570	205080	0	0	13410	04/05
LESSER SCAUP	733	1480	0	125130	82410	986220	1193760	0	C	49700	04/12
RING-BILLED DUCK	733	1500	0	25350	13350	75450	111150	0	0	5300	04/05
COMMON GOLDENEYE	733	1510	C	19200	40770	0	59970	0	18	4235	03/25
BUFFLEHEAD	733	1530	0	5730	7530	8550	21810	0	0	1005	03/05
RODDY DUCK	733	1670	0	0	450	2010	2460	0	C	220	04/05
TOTAL			751560	1915250	272370	2241390	4280610	0	1731		

NATIONAL WILDLIFE REFUGE SYSTEM
 PUBLIC REPORT

ACT HAS BY MONTH

CACCHIO DISTRICT
 02-237-05-050

ACTIVITY NAME	JUL-74	AUG-74	SEP-74	OCT-74	NOV-74	DEC-74	JAN-75	FEB-75	MAR-75	APR-75	MAY-75	JUN-75	12 MONTH TOTAL
TOTAL EDUCATION	50												50
TOTAL HUNTING													31638
TOTAL FISHING	140144	94670	90238	172250	64605	98060	72000	56250	34650	57375	65250	60590	1007412
TOTAL OTHER WMA RECREATION	65699	13240	9638	20390	24553	12627	5140	5620	6190	27390	26540	14900	240126
TOTAL PUBLIC USE	340528	420231	270502	302077	97473	114510	73540	61870	40846	84758	117890	393326	2431641
TOTAL WILDLIFE ORIENTED	205493	100622	100131	222483	97473	114430	73540	61870	40846	84758	91790	75490	1281376
TOTAL NON-WILDLIFE ORIENTED	134635	319609	270371	81504							26100	317936	1150265
NO. VISITS TO REFUGE	61571	29370	55139	50372	10080	23755	15048	11781	8316	13307	16740	57007	361236

NATIONAL WILDLIFE REFUGE SYSTEM
WATERFOWL USE DAYS

CASSVILLE DISTRICT

13-2527-05-C50

SPECIES NAME	JUL 1974- SEP 1974	OCT 1974- DEC 1974	JAN 1975- MAR 1975	APR 1975- JUN 1975	12 MONTH TOTAL
SPECIAL RECOGNITION					
DUCK	58,950	534,000	4,470	422,910	1,019,430
AMERICAN COOT					
WATERFOWL MAINTENANCE					
SKANS	0	0	0	210	210
WHISTLING SWAN					
GESE					
SCOT GESE	0	3,600	0	0	3,600
CANADA GESE	120	1,950	510	360	2,940

DUCK	0	4,200	67,380	47,880	119,460
COMMON MORGANSE	0	0	0	2,430	2,430
RED-NECKED MORGANSE	0	0	0	7,610	7,610
HONDER MORGANSE	0,750	2,100	6,420	242,970	255,770
MALLARD	90,510	126,740	3,900	3,150	474,210
BLACK DUCK	570	950	180	1,440	3,150
CANALI	1,160	3,750	0	2,070	6,960
AMERICAN WIGSON	3,540	23,730	270	14,670	42,180
GREEN-WINGED (COMMON) TEAL	6,000	6,480	0	2,880	15,360
BLUE-WINGED TEAL	27,240	9,450	0	16,080	52,770
WATERFOWL SAMPLED	0	0	120	2,730	2,850
PINTAIL	5,640	6,260	120	2,180	15,300
LYON DUCK	540,000	105,750	300	241,230	896,370
PEMHEAD	0	0	2,250	1,140	3,390
CANVASBACK	0	750	44,760	159,570	205,080
LESSER SCAUP	0	125,130	82,410	986,220	1,193,760
PINK-NECKED DUCK	0	25,250	10,350	75,450	111,150
COMMON GOLDENEYE	0	19,200	40,770	0	59,970
BUFFLEHEAD	0	5,730	7,530	8,550	21,810
ELDER DUCK	0	0	450	2,010	2,460

TOTAL SWANS	0	0	0	210	210
TOTAL GESE	120	5,550	510	360	6,540
TOTAL DUCKS	693,290	475,740	267,380	1,817,910	3,254,430
TOTAL WATERFOWL	751,560	1,015,290	272,370	2,241,390	4,280,610

TOTAL WATERFOWL

0/24/75

NATIONAL LIFE REFUGE SYSTEM
NUMBER OF PUBLIC AFFAIRS ACTIVITIES

131

CASSVILLE DISTRICT

03-3527-C5-CSD

PUBLIC AFFAIRS ACTIVITY NAME

PUBLIC AFFAIRS
NEWSPAPER ARTICLES

TOTAL

	JUL-74	AUG-74	SEP-74	OCT-74	NOV-74	DEC-74	JAN-75	FEB-75	MAR-75	APR-75	MAY-75	JUN-75	12 MONTH TOTAL
C	0	0	2	2	0	0	0	0	1	0	0	0	5
0	0	0	2	2	0	0	0	0	1	0	0	0	5

NATIONAL WILDLIFE REFUGE SYSTEM

REPORT OF ECONOMIC OUTPUTS - FY 75

(IN DOLLARS)

CASSVILLE DISTRICT

03-3527-05-CSD

TYPE OF BENEFIT	JUL-SEP 74	CCT-DEC 74	JAN-MAR 75	APR-JUN 75	FY TOTAL
REFUGE RECEIPTS					
FUN DEMONSTRATIONS	0.00	1,327.30	0.00	0.00	1,327.30
OTHER RECEIPTS	0.00	0.00	0.00	838.32	838.32
BY CUPKTR, FOR SELF	0.00	0.00	20.00	0.00	20.00
BY CUPKTR, FOR BSW	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	1,327.30	20.00	838.32	2,185.62

NATIONAL WILDLIFE REFUGE SYSTEM
REPORT OF MISCELLANEOUS OUTPUTS
FY-75

CASSVILLE DISTRICT
03-3527-05-CSD

TYPE OF CUTPUTS	UNITS	FY TOTAL
PROFESSIONAL SERVICES		
ECOLOGICAL MONITORING BY REFUGE PERSONNEL HANDING	PROGRAM 6	6
BY REFUGE PERSONNEL	PROGRAM 1	1
MISCELLANEOUS WILDLIFE OUTPUTS		
WILDLIFE DIVERSITY SPECIES DONATED	NO. SPECS EA. ANIMAL	458 5

NATIONAL WILDLIFE REFUGE SYSTEM
PUBLIC USE REPORT

VISITS BY MONTH

OUTERMOOR DISTRICT
93-3537-34-010

ACTIVITY NAME JUL-74 AUG-74 SEP-74 OCT-74 NOV-74 DEC-74 JAN-75 FEB-75 MAR-75 APR-75 MAY-75 JUN-75 12 MONTH TOTAL

INTERPRETATION

EXHIBITS-DEMONSTRATIONS

SELF GUIDED

5294

5294

RECREATION-WILDLIFE WILDLANDS

FISHING

LAQUATES

25471

25471

CLAMS, CRABS, OVSTERS

250

250

WILDLIFE OBSERVATION

FOOT

637

637

BOAT (NONMOTORIZED)

732

732

OTHER

1909

1909

WILDLANDS APPRECIATION

FOOT

41350

41350

BIOTECORARY

50

50

RECREATION NON-WILDLIFE

CAMPING

12778

12778

PICTURING

7911

7911

SWIMMING

17340

17340

BOATING

18253

18253

WATER SKIING

9127

9127

TOTAL INTERPRETATION

5294

5294

TOTAL FISHING

25721

25721

TOTAL OTHER W/M RECREATION

44678

44678

TOTAL PUBLIC USE

141102

141102

TOTAL WILDLIFE ORIENTED

75693

75693

TOTAL NON-WILDLIFE ORIENTED

65409

65409

NO. VISITS TO REFUGE

74814

74814

NATIONAL WILDLIFE REFUGE SYSTEM
LAND USE INVENTORY REPORT
FY - 75

GUTHRIE DISTRICT
03-3527-C4-GTD

LAND CLASSIFICATION ACREAGE

I. DETAILED CLASSIFICATIONS

WETLAND TYPES	
INLAND FRESH AREAS	
SEASONAL FLOOD BASIN/FLAT	1,390.0
SHALLOW FRESH MARSHES	1,226.0
DEEP FRESH MARSHES	2,074.0
OPEN FRESH WATER	1,414.0
OTHER WETLANDS	
RIVERS AND STREAMS	4,550.0
UPLAND TYPES	
CROPLANDS	
NONIRRIGATED - HCT FIELDS	167.0
FORESTLANDS	
NON-COMMERCIAL FORESTS	4,274.0
OTHER LAND TYPES	
ADMINISTRATIVE	6.0
GENERAL	
TOTAL ACRES	15,101.0

II. SUMMARY CLASSIFICATIONS

INLAND FRESH AREAS	6,104.0
OTHER WETLANDS	4,550.0
WETLAND TYPES	10,654.0
CROPLANDS	167.0
FORESTLANDS	4,274.0
UPLAND TYPES	4,441.0
ADMINISTRATIVE	6.0
OTHER LAND TYPES	6.0

NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
(WATERFOWL ONLY)

FY-75

GUTHRIE DISTRICT
05-3527-04-CIU

*****--USE DAYS-----*****
LINE CODE JUL-SEP 74 OCT-DEC 74 JAN-MAR 75 APR-JUN 75 FY TOTAL PROCUCED HARVESTED POPULATION DATE

SPECIES NAME

SPECIAL RECOGNITION

ELKUS

AMERICAN COOT

WATERFOWL MAINTENANCE

DUCKS

HOULT PERGANSER

MALLARD

BLUE-WINGED TEAL

WOOD DUCK

711 2210	300	0	0	0	0	300	0	0	10	07/06
733 1310	4500	0	0	0	0	4500	0	0	150	07/06
733 1320	10950	0	0	0	0	10950	0	0	365	07/06
733 1400	450	0	0	0	0	450	0	0	15	07/06
733 1440	210000	0	0	0	0	210000	0	0	7000	07/06
TOTAL	226200	0	0	0	0	226200	0	0		

ACT 1105 RY MINT:14

COLLEEN DISTRICT
03-2627-04-010

[illegible]

INTERPRETATION

U.S. GOVERNMENT PRINTING OFFICE

2647

Summary of the results of the study

FIGURES	
CALCULATED	104431
CLIFFS, CAVERNS, OVERSTAYS	1000
HILLOCK PRESERVATION	
FOOT	637
COAT (HYDROGRAPHIC)	1464
OTHER	1909
ALLIANCE ASSOCIATION	
FOOT	10338
ALLOVATIONS	150

1994-1995

92251	Galaxy	Galaxy	1822
21250	Galaxy	Galaxy	6125
05172	Galaxy	Galaxy	6126
92251	Galaxy	Galaxy	1822

153336
21360
64158
82139
27381

NOTES ON THE INTERPRETATION

1000	NOT RECORDED	1467
1000	NOT RECORDED	1468
1000	NOT RECORDED	1469
1000	NOT RECORDED	1470
1000	NOT RECORDED	1471
1000	NOT RECORDED	1472
1000	NOT RECORDED	1473
1000	NOT RECORDED	1474
1000	NOT RECORDED	1475
1000	NOT RECORDED	1476
1000	NOT RECORDED	1477
1000	NOT RECORDED	1478
1000	NOT RECORDED	1479
1000	NOT RECORDED	1480
1000	NOT RECORDED	1481
1000	NOT RECORDED	1482
1000	NOT RECORDED	1483
1000	NOT RECORDED	1484
1000	NOT RECORDED	1485
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1000	NOT RECORDED	1487
1000	NOT RECORDED	1488
1000	NOT RECORDED	1489
1000	NOT RECORDED	1490
1000	NOT RECORDED	1491
1000	NOT RECORDED	1492
1000	NOT RECORDED	1493
1000	NOT RECORDED	1494
1000	NOT RECORDED	1495
1000	NOT RECORDED	1496
1000	NOT RECORDED	1497
1000	NOT RECORDED	1498
1000	NOT RECORDED	1499
1000	NOT RECORDED	1500

2647
105431
14498

Total number of users

470950

470950

TOGETHER WITH LIFE ORIENTED

122576

122576

TOTAL NON-MILITARY ORIENTED

248276

348374

NO. VISITS TO DECEASED

76314

74814

NATIONAL WILDLIFE REFUGE SYSTEM

WATERFOWL USE DAYS

CHITTENDEN DISTRICT

93-3537-04-G10

SPECIES NAME	JUL 1974- SEP 1974	OCT 1974- DEC 1974	JAN 1975- MAR 1975	APR 1975- JUN 1975	12 MONTH TOTAL
SPECIAL REGISTRATION					
DUCKS	300	0	0	0	300
AMERICAN COT					
WATERFOWL MAINTENANCE					
DUCKS					
HOOPER'S MAGNANER	4,500	0	0	0	4,500
WALLARD	10,950	0	0	0	10,950
WALLARD-ALBINO TOTAL	450	0	0	0	450
WALLARD CUCK	210,000	0	0	0	210,000
TOTAL SHOPS	0	0	0	0	0
TOTAL OFFICE	0	0	0	0	0
TOTAL DUCKS	225,900	0	0	0	225,900
TOTAL WATERFOWL	226,200	0	0	0	226,200

[illegible]

NATIONAL MIDWEST REFUGE SYSTEM
AVERAGE MONTHLY WATERFOWL POPULATIONS

STATION: 0150101

000000-01-010

SPECIES NAME

JUL 74 AUG 74 SEP 74 OCT 74 NOV 74 DEC 74 JAN 75 FEB 75 MAR 75 APR 75 MAY 75 JUN 75

SOCIUM SPECIFICATION

WINGS

AMERICAN COOT

10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

POTENTIAL MAINTENANCE

DUCK

RECOVERED RECOVERED

WINGS

RECOVERED RECOVERED

WINGS

RECOVERED RECOVERED

WINGS

RECOVERED RECOVERED

WINGS

RECOVERED RECOVERED

WINGS

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WINGS

RECOVERED RECOVERED

WINGS

RECOVERED RECOVERED

TOTAL QUANT
TOTAL QUANT
TOTAL QUANT

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7530 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

TOTAL QUANT

7530 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
WILDLIFE USE REPORT - WATERFOWL
(USE DAYS, HARVEST, & PRODUCTION)
FY-75

WATERFOWL DISTRICT
527-04-610

SPECIES NAME

SPECIAL REGISTRATION

SEXES

AMERICAN COT

GENERAL MAINTENANCE

BIRDS
BLOODED WINGED DUCK
MALLARD
BLUE-WINGED TEAL
MUD DUCK

*****--USE DAYS-----*****											
LINE CODE	JUL-SEP 74	OCT-DEC 74	JAN-MAR 75	APR-JUN 75	FY TOTAL	FY-NO. PRODUCED	FY-NO. HARVESTED	FY-PEAK POPULATION	DATE		
711 2210	300	0	0	0	300	0	0	10	07/06		
733 1310	4500	0	0	0	4500	0	0	150	07/06		
733 1320	10950	0	0	0	10950	0	0	365	07/06		
733 1400	450	0	0	0	450	0	0	15	07/06		
733 1440	210000	0	0	0	210000	0	0	7000	07/06		
TOTAL	226200	0	0	0	226200	0	0				

NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
WILDLIFE USE REPORT - WATERFOWL
(USE DAYS, HARVEST, & PRODUCTION)
FY-75

VILLE DISTRICT
927-05-050

SPECIES NAME	LIVE CODE	*****USE DAYS*****					FY-NO. HARVESTED	FY-NO. PEAK	DATE
		JUL-SEP 74	OCT-DEC 74	JAN-MAR 75	APR-JUN 75	FY TOTAL PRODUCED			

AMERICAN Coot	711 2210	53050	534000	4470	422910	1019430	0	35370	C4/10
TELFORD MAINTENANCE	731 1800	0	0	0	210	210	0	36	34/12
SEAL	732 1690	0	3600	0	0	3600	0	150	10/12
CANADA GOOSE	732 1720	120	1950	510	360	2940	0	30	10/07

DUCK	733 1290	0	4200	67380	47830	119460	0	5335	03/05
RED-NECKED MERGANSER	733 1300	0	0	0	2430	2430	0	260	04/19
BLUE MERGANSER	733 1310	9750	2190	6420	7410	25770	0	855	03/07
WILSON	733 1320	90510	136740	3990	242970	474210	735	18100	04/05
BLACK DUCK	733 1330	570	960	180	1440	3150	0	130	04/12
GOOSE	733 1350	1140	3750	0	2070	6960	0	245	04/12
AMERICAN WIGEON	733 1370	3540	23700	270	14670	42150	0	935	04/12
RED-NECKED (CIN.) TEAL	733 1390	6000	6480	0	2880	15360	0	350	10/13
WILSON TEAL	733 1400	27240	9450	0	16030	52770	65	1170	04/19
WILSON SHOVELER	733 1420	0	0	120	2730	2350	0	355	04/12
WILSON	733 1430	5640	6360	120	3180	15300	0	450	03/12
WILSON	733 1440	549000	105750	390	241230	896370	755	8500	03/07
WILSON	733 1460	0	0	2250	1140	3390	0	300	03/05
WILSON	733 1470	0	750	44760	159570	205080	0	13410	04/05
LESSER SCAUP	733 1480	0	125130	82410	986220	1193760	0	49790	04/12
WILSON DUCK	733 1500	0	25350	10350	75450	111150	0	5300	04/05
GOOSE WIGEON	733 1510	0	19200	40770	0	59970	18	4235	03/29
GOOSE WIGEON	733 1530	0	5730	7530	8550	21810	0	1005	03/05
GOOSE DUCK	733 1670	0	0	450	2010	2460	0	220	04/05

TELFORD PRODUCTION	803 1310	0	0	0	0	0	40	0	
TELFORD	803 1320	0	0	0	0	0	200	0	
TELFORD	803 1400	0	0	0	0	0	20	0	
TELFORD	803 1440	0	0	0	0	0	3000	0	
