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UNITED STATES DEPARTMENT OF THE INTERIOR
 Fish and Wildlife Service
 Bureau of Sport Fisheries and Wildlife
 Washington 25, D. C.

1960 PUBLIC USE OF NATIONAL WILDLIFE REFUGES

#431

The 10-3/4 million visitors on the National Wildlife Refuges in 1960 represent an 8-percent increase over the visitor-days of public use in 1959. The 10,754,000 visitor-days were divided as follows:

Fishing	31 percent	3,328,500
Hunting	3 1/2 percent	363,500
Miscellaneous	65 1/2 percent	7,062,000

Wildlife observations, picnicking, and swimming were the most popular. Recreation is permitted on designated portions of 140 of the 289 refuges where such coordinated use can be accomplished without defeating the primary objective for which the refuge was established.

The following tabulation of public use, arranged by regions, is based upon information submitted by all refuge managers.

REGION 1 (Pacific)

<u>Refuge</u>	<u>Total Use</u>	<u>Hunting Use</u>	<u>Fishing Use</u>	<u>Miscellaneous Use</u>
Bowdoin	15,000	428	--	14,572
Camas	948	96	--	852
Clear Lake	4,000	--	--	4,000
Cold Springs	6,000	--	4,000	2,000
Columbia	69,079	8,249	37,880	22,950
Colusa	8,125	2,809	425	4,891
Deer Flat	162,000	2,000	40,000	120,000
Desert Game	148,735	2,800	1,400	144,535
Fort Peck	179,075	25,975	38,500	114,600
Hart Mountain	3,610	1,600	10	2,000
Little Pend Oreille	15,815	5,200	4,160	6,455
Lower Klamath	56,459	14,259	--	42,200
Malheur	12,150	710	2,500	8,940
McKay Creek	4,600	700	400	3,500
McNary	2,400	--	1,400	1,000
Medicine Lake	16,000	200	--	15,800
Merced	1,932	1,532	--	400
Minidoka	25,000	--	7,500	17,500
National Bison	38,000	--	--	38,000
Nine-Pipe	11,000	--	9,000	2,000
Pablo	2,500	--	2,000	500
Red Rock Lakes	1,790	180	660	950
Ruby Lake	18,249	49	8,000	10,200
Sacramento	18,500	--	250	18,250
Salton Sea	6,940	240	200	6,500
Sheldon	9,150	875	275	8,000
Snake River	500	300	150	50

<u>Refuge</u>	<u>Total Use</u>	<u>Hunting Use</u>	<u>Fishing Use</u>	<u>Miscellaneous Use</u>
Stillwater	7,510	2,210	2,800	2,500
Sutter	12,500	3,452	7,000	2,048
Tule Lake	81,878	14,678	--	67,200
Turnbull	3,800	--	--	3,800
Upper Klamath	13,000	1,500	7,000	4,500
Willapa	<u>1,500</u>	<u>500</u>	<u>--</u>	<u>1,000</u>
Total	957,745	90,542	175,510	691,693

REGION 2 (Southwest)

Aransas	13,294	--	--	13,294
Bear River	17,778	3,405	1,543	12,830
Bitter Lake	12,484	290	5,600	6,594
Bosque del Apache	2,000	--	1,000	1,000
Buffalo Lakes	191,157	--	10,000	181,157
Cabeza Prieta	330	--	--	330
Fish Springs	284	58	--	226
Hagerman	9,500	--	5,000	4,500
Havasu Lake	406,660	500	160,000	246,160
Hutton Lake	550	--	--	550
Imperial	96,000	1,670	40,000	54,330
Kirwin	193,654	526	118,000	75,128
Kofa	5,850	410	--	5,440
Laguna Atascosa	21,236	--	19,662	1,574
Monte Vista	5,448	1,608	875	2,965
Muleshoe	4,000	--	100	3,900
National Elk	69,075	--	1,600	67,475
Pathfinder	10,500	1,000	5,000	4,500
Quivira	500	--	--	500
Salt Plains	235,685	--	11,800	223,885
San Andres	740	475	--	265
Santa Ana	5,830	--	--	5,830
Tishomingo	26,115	1,126	14,493	10,496
Wichita Mountains	<u>1,022,907</u>	<u>--</u>	<u>51,245</u>	<u>971,662</u>
Total	2,351,577	11,068	445,918	1,894,591

REGION 3 (North-central)

Arrowwood	11,130	600	530	10,000
Bear Butte	7,000	--	3,000	4,000
Belle Fourche	8,000	500	--	7,500
Chautauqua	55,357	1,493	45,680	8,184
Crab Orchard	1,287,900	27,600	74,400	1,185,900
Crescent Lake	460	--	10	450
Des Lacs	10,500	500	--	10,000
De Soto	13,800	--	1,400	12,400
Fort Niobrara	25,696	--	--	25,696
Horicon	295,000	50,000	65,000	180,000

<u>Refuge</u>	<u>Total Use</u>	<u>Hunting Use</u>	<u>Fishing Use</u>	<u>Miscellaneous Use</u>
Lacreek	15,300	800	4,000	10,500
Lake Andes	900	800	5	95
Lake Ilo	6,800	--	2,800	4,000
Long Lake	850	400	250	200
Lostwood	570	320	--	250
Lower Souris	5,810	3,200	500	2,110
Mark Twain	26,635	--	18,215	8,420
Mingo	30,000	--	25,000	5,000
Mud Lake	41,800	1,669	--	40,131
Necedah	83,300	30,000	3,300	50,000
Rice Lake	2,100	500	600	1,000
Sand Lake	4,260	325	400	3,535
Seney	27,300	3,000	2,000	22,300
Shiawassee	12,050	2,800	4,000	5,250
Slade	32,800	200	2,000	30,600
Snake Creek	215	80	--	135
Squaw Creek	6,200	--	1,200	5,000
Sullys Hill	52,000	--	--	52,000
Swan Lake	48,852	6,702	7,150	35,000
Tamarac	19,590	3,152	1,000	15,438
Tewaukon	13,900	75	9,525	4,300
Union Slough	5,430	--	500	4,930
Upper Mississippi	3,105,106	78,317	1,398,484	1,628,305
Upper Souris	51,100	1,000	35,000	15,100
Valentine	9,420	--	1,000	8,420
Waubay	10,125	125	--	10,000
Total	5,327,256	214,158	1,706,949	3,406,149

REGION 4 (Southeast)

Back Bay	5,400	--	1,800	3,600
Big Lake	33,750	55	11,695	22,000
Blackbeard Island	8,749	649	7,100	1,000
Blackwater	12,530	--	530	12,000
Cape Romain	5,212	292	2,655	2,265
Carolina Sandhills	5,475	--	2,475	3,000
Chassahowitzka	5,764	164	4,900	700
Chincoteague	10,000	--	4,000	6,000
Delta	34,000	--	750	33,250
Great White Heron, Key West, and Key Deer	103,000	--	75,000	28,000
Gulf Island	238	--	--	238
Holla Bend	600	--	100	500
Kentucky Woodlands	357,695	2,100	250,000	105,595
Lacassine	25,612	--	15,642	9,970
Loxahatchee	33,001	576	22,000	10,425
Mattamuskeet	44,385	4,385	12,000	28,000
Noxubee	63,500	3,000	25,500	35,000

<u>Refuge</u>	<u>Total Use</u>	<u>Hunting Use</u>	<u>Fishing Use</u>	<u>Miscellaneous Use</u>
Okefenokee	140,000	--	17,000	123,000
Pea Island	14,000	--	4,000	10,000
Piedmont	5,000	2,000	300	2,700
Presquile	314	--	--	314
Reelfoot-Lake Isom	41,936	471	40,390	1,075
Sabine	19,729	--	19,290	439
Sanibel	125,000	--	20,000	105,000
Santee	85,000	--	75,000	10,000
St. Marks	40,100	100	10,000	30,000
Savannah	10,500	--	5,500	5,000
Susquehanna	4,900	--	1,800	3,100
Swanquarter	11,500	--	6,000	5,500
Tennessee	165,000	--	100,000	65,000
Wheeler	166,400	3,100	143,950	19,350
White River	78,000	6,000	57,000	15,000
Yazoo	500	--	--	500
Total	1,656,790	22,892	936,377	697,521

REGION 5 (Northeast)

Bombay Hook	9,227	844	750	7,633
Brigantine	28,072	904	10,000	17,168
Great Meadows	3,800	6	--	3,794
Killcohook	600	--	--	600
Missisquoi	4,115	32	1,200	2,883
Moncmoy	12,000	--	2,400	9,600
Montezuma	18,605	605	7,000	11,000
Moosehorn	10,400	1,500	1,400	7,500
Morton	11,935	--	--	11,935
Oak Orchard	5,720	3,500	220	2,000
Parker River	175,900	515	17,600	157,785
Troy Meadows	200	--	5	195
Total	280,574	7,906	40,575	232,093

REGION 6 (Alaska)

Kenai	179,000	16,000	23,000	140,000
Kodiak	1,050	900	150	--
Total	180,050	16,900	23,150	140,000
GRAND TOTALS	10,753,992	363,466	3,328,479	7,062,047