

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento	Delevan	Colusa	Sutter	Butte Sink	Llano Seco	GRAND TOTALS
	NWR	NWR	NWR	NWR	Unit (Butte Sink WMA)	Unit (North Central Valley WMA)	
% of Wetlands Flooded	8/18/2020	8/20/2020	8/19/2020	8/15/2020	8/19/2020	8/19/2020	
	9%	6%	4%	4%	0%	1%	
Coot	200	0	0	0	0	0	200
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	0	0	0	0	0	0	0
White goose	0	0	0	0	0	0	0
Western Canada goose	115	325	0	17	0	0	457
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	115	325	0	17	0	0	457
Mallard	2,980	2,260	0	151	0	0	5,391
Pintail	350	1,900	0	0	0	0	2,250
Gadwall	225	50	0	8	0	0	283
Wigeon	30	0	0	0	0	0	30
Green-winged teal	300	400	0	4	0	0	704
Cinnamon teal	100	20	0	2	0	0	122
N. shoveler	370	200	0	0	0	0	570
Wood duck	0	30	0	4	0	0	34
other dabblers	0	0	0	0	0	0	0
TOTAL DABBLERS	4,355	4,860	0	169	0	0	9,384
Ring-necked duck	0	0	0	0	0	0	0
Ruddy duck	0	0	0	0	0	0	0
Bufflehead	0	0	0	0	0	0	0
Redhead	0	0	0	0	0	0	0
Canvasback	0	0	0	0	0	0	0
Lesser scaup	0	0	0	0	0	0	0
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	0	0	0	0	0	0	0
TOTAL DUCKS	4,355	4,860	0	169	0	0	9,384
TOTAL WATERFOWL	4,470	5,185	0	186	0	0	9,841
PERCENTAGES	45.4	52.7	0.0	1.9	0.0	0.0	100.0

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Llano Seco Unit (North Central Valley WMA)						GRAND TOTALS
	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit (Butte Sink WMA)	Central Valley WMA)	
% of Wetlands Flooded	18%	21%	9%	33%	81%	1%	
Coot	720	250	25	125	200	0	1,320
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	192	938	80	6	0	0	1,216
White goose	0	0	0	0	0	0	0
Western Canada goose	148	0	33	22	0	0	203
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	340	938	113	28	0	0	1,419
Mallard	4,950	5,750	325	964	1,015	0	13,004
Pintail	13,630	31,500	2,752	4,590	67,800	0	120,272
Gadwall	1,375	1,100	0	61	80	0	2,616
Wigeon	150	305	2	20	0	0	477
Green-winged teal	3,560	5,430	2	380	0	0	9,372
Cinnamon teal	168	157	0	22	3	0	350
N. shoveler	2,990	2,920	10	36	651	0	6,607
Wood duck	70	250	0	76	0	0	396
other dabblers	0	0	0	0	0	0	0
TOTAL DABBLERS	26,893	47,412	3,091	6,149	69,549	0	153,094
Ring-necked duck	35	0	0	0	0	0	35
Ruddy duck	20	0	0	0	0	0	20
Bufflehead	0	0	0	0	0	0	0
Redhead	0	0	0	0	0	0	0
Canvasback	0	0	0	0	0	0	0
Lesser scaup	0	0	0	0	0	0	0
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	55	0	0	0	0	0	55
TOTAL DUCKS	26,948	47,412	3,091	6,149	69,549	0	153,149
TOTAL WATERFOWL	27,288	48,350	3,204	6,177	69,549	0	154,568
PERCENTAGES	17.7	31.3	2.1	4.0	45.0	0.0	100.0

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Llano Seco Unit (North Central Butte Sink Unit (Butte Sink WMA) Valley WMA)						GRAND TOTALS
	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit (Butte Sink WMA)	Central Valley WMA)	
% of Wetlands Flooded	53%	64%	48%	43%	96%	24%	
Coot	9,237	9,588	1,326	2,700	947	94	23,892
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	6	290	788	0	30	618	1,732
White-fronted goose	86,876	88,195	17,405	47,400	3,500	2,295	245,671
White goose	9,885	18,400	222	375	0	6	28,888
Western Canada goose	92	46	134	0	0	143	415
Aleutian Canada goose	0	40	0	0	0	0	40
Cackling Canada goose	0	0	1	4	1	3	9
TOTAL GEESE	96,853	106,681	17,762	47,779	3,501	2,447	275,023
Mallard	12,911	7,616	2,286	2,738	603	354	26,508
Pintail	106,591	94,452	16,941	23,110	30,754	501	272,349
Gadwall	11,895	15,301	2,735	740	2,392	87	33,150
Wigeon	17,040	20,707	5,799	2,290	18,190	519	64,545
Green-winged teal	38,685	39,981	1,256	260	958	598	81,738
Cinnamon teal	30	14	1	22	0	0	67
N. shoveler	11,070	14,887	1,214	1,300	4,558	230	33,259
Wood duck	124	56	22	82	0	0	284
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	198,346	193,014	30,254	30,542	57,455	2,289	511,900
Ring-necked duck	1,600	913	55	80	600	0	3,248
Ruddy duck	200	0	0	0	280	0	480
Bufflehead	0	0	0	0	0	0	0
Redhead	20	0	0	0	0	0	20
Canvasback	40	0	0	0	0	0	40
Lesser scaup	0	0	0	0	0	0	0
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	1,860	913	55	80	880	0	3,788
TOTAL DUCKS	200,206	193,927	30,309	30,622	58,335	2,289	515,688
TOTAL WATERFOWL	297,059	300,608	48,071	78,401	61,836	4,736	790,711
PERCENTAGES	37.6	38.0	6.1	9.9	7.8	0.6	100.0

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Llano Seco Unit (North						GRAND TOTALS
	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit (Butte Sink WMA)	Central Valley WMA)	
% of Wetlands Flooded	11/17/2020	11/19/2020	11/19/2020	11/19/2020	11/17/2020	11/16/2020	
	95%	88%	87%	73%	100%	52%	
Coot	20,950	18,800	7,355	3,433	5,414	299	56,251
Tundra Swan	0	0	34	0	0	0	34
Sandhill Crane	0	17	469	2	0	214	702
White-fronted goose	3,150	5,197	10,800	42,957	625	2,661	65,390
White goose	6,170	11,550	61,855	59,925	3,720	28,440	171,660
Western Canada goose	142	0	0	0	0	483	625
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	59	0	0	191	250
TOTAL GEESE	9,462	16,747	72,714	102,882	4,345	31,775	237,925
Mallard	15,234	16,388	2,795	3,302	934	610	39,263
Pintail	60,150	72,510	48,201	49,930	101,333	23,370	355,494
Gadwall	25,850	18,980	5,250	2,569	3,068	537	56,254
Wigeon	12,800	23,330	7,745	10,830	81,472	1,946	138,123
Green-winged teal	26,250	55,650	4,158	11,650	2,911	176	100,795
Cinnamon teal	8	83	6	8	0	0	105
N. shoveler	20,780	19,705	11,502	2,329	14,130	2,042	70,488
Wood duck	0	0	0	42	0	0	42
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	161,072	206,646	79,657	80,660	203,848	28,681	760,564
Ring-necked duck	13,390	2,280	51	300	1,350	0	17,371
Ruddy duck	800	420	0	0	200	0	1,420
Bufflehead	210	170	17	0	7	9	413
Redhead	0	0	0	0	0	0	0
Canvasback	30	0	0	0	0	0	30
Lesser scaup	0	0	0	0	0	0	0
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	14,430	2,870	68	300	1,557	9	19,234
TOTAL DUCKS	175,502	209,516	79,725	80,960	205,405	28,690	779,798
TOTAL WATERFOWL	184,964	226,263	152,439	183,842	209,750	60,465	1,017,723
PERCENTAGES	18.2	22.2	15.0	18.1	20.6	5.9	100.0

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Refuge Date	Llano Seco Unit (North						GRAND TOTALS
	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit (Butte Sink WMA)	Central Valley WMA)	
% of Wetlands Flooded	100%	98%	97%	92%	100%	66%	
Coot	30,810	28,930	9,933	5,690	4,733	519	80,615
Tundra Swan	0	0	1	0	0	0	1
Sandhill Crane	0	0	4	0	0	40	44
White-fronted goose	21,140	3,535	1,768	12,722	160	932	40,257
White goose	113,400	7,810	18,731	5,660	0	0	145,601
Western Canada goose	152	110	0	0	0	160	422
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	35	0	0	0	0	0	35
TOTAL GEESE	134,727	11,455	20,499	18,382	160	1,092	186,315
Mallard	13,120	12,615	4,121	2,769	1,263	467	34,355
Pintail	95,730	104,280	45,294	56,853	51,605	20,855	374,617
Gadwall	40,830	27,695	8,361	3,447	6,203	692	87,228
Wigeon	14,430	13,840	7,844	19,676	39,890	4,552	100,232
Green-winged teal	40,030	64,010	13,228	14,855	10,866	1,283	144,272
Cinnamon teal	80	50	8	6	0	7	151
N. shoveler	30,485	28,830	17,107	2,840	8,433	2,768	90,463
Wood duck	0	0	4	19	2	4	29
other dabblers	0	0	0	0	0	0	0
TOTAL DABBLERS	234,705	251,320	95,967	100,465	118,262	30,628	831,347
Ring-necked duck	9,060	6,900	777	180	5,520	0	22,437
Ruddy duck	1,340	420	122	0	431	0	2,313
Bufflehead	0	190	104	32	2	0	328
Redhead	460	0	0	0	0	0	460
Canvasback	0	0	0	0	0	0	0
Lesser scaup	0	0	0	0	0	0	0
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	10,860	7,510	1,003	212	5,953	0	25,538
TOTAL DUCKS	245,565	258,830	96,970	100,677	124,215	30,628	856,885
TOTAL WATERFOWL	380,292	270,285	117,469	119,059	124,375	31,720	1,043,200
PERCENTAGES	36.5	25.9	11.3	11.4	11.9	3.0	100.0

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Refuge Date	Llano Seco Unit (North						GRAND TOTALS
	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit (Butte Sink WMA)	Central Valley WMA)	
% of Wetlands Flooded	92%	95%	96%	92%	100%	79%	
Coot	37,200	33,250	13,694	7,966	3,612	1,831	97,553
Tundra Swan	0	0	2	0	0	0	2
Sandhill Crane	0	9	0	0	6	642	657
White-fronted goose	27,350	12,160	5,811	17,129	814	1,542	64,806
White goose	77,685	20,390	15,635	17,884	124	2,582	134,300
Western Canada goose	185	39	0	2	6	104	336
Aleutian Canada goose	0	0	0	0	0	16	16
Cackling Canada goose	120	0	3	0	0	426	549
TOTAL GEESE	105,340	32,589	21,449	35,015	944	4,670	200,007
Mallard	15,711	10,504	1,578	2,918	789	573	32,073
Pintail	27,890	44,770	35,077	56,936	11,489	16,818	192,980
Gadwall	23,225	22,760	8,608	1,764	2,970	1,577	60,904
Wigeon	18,070	18,170	12,067	16,954	3,109	12,467	80,837
Green-winged teal	22,010	30,820	15,935	10,140	3,715	4,571	87,191
Cinnamon teal	130	60	5	7	2	0	204
N. shoveler	13,375	25,480	21,210	2,752	6,893	5,871	75,581
Wood duck	0	0	5	2	0	0	7
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	120,411	152,564	94,485	91,473	28,967	41,877	529,777
Ring-necked duck	10,390	10,350	284	1,596	490	128	23,238
Ruddy duck	1,810	700	211	2	2,150	0	4,873
Bufflehead	180	40	254	32	20	22	548
Redhead	0	0	0	4	0	0	4
Canvasback	450	0	1	0	0	0	451
Lesser scaup	0	0	0	0	0	0	0
other divers*	6	4	0	6	0	0	16
TOTAL DIVERS	12,836	11,094	750	1,640	2,660	150	29,130
TOTAL DUCKS	133,247	163,658	95,235	93,113	31,627	42,027	558,907
TOTAL WATERFOWL	238,587	196,247	116,684	128,128	32,571	46,697	758,914
PERCENTAGES	31.4	25.9	15.4	16.9	4.3	6.2	100.0

Other divers Sac/Del = hooded mergansers; Sut = common goldeneye