

June - Sacramento NWR Complex Waterfowl Survey Summary

Refuge surveyed	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit of Butte Sink WMA	Llano Seco Unit of Steve Thompson North Central Valley WMA	COMPLEX TOTALS
Survey date	6/17/2021	6/21/2021	6/15/2021	6/15/2021	6/18/2021	6/15/2021	-
% of Wetlands Flooded	19%	17%	6%	1%	1%	3%	-
# American coot	550	430	0	0	0	0	980
# Tundra swan	0	0	0	0	0	0	0
# Sandhill crane	0	0	0	0	0	0	0
# White-fronted goose	0	0	0	2	0	0	2
# White goose	0	0	0	0	0	0	0
# Western Canada goose	180	0	0	0	0	0	180
# Aleutian cackling goose	0	0	0	0	0	0	0
# Cackling cackling goose	0	0	0	0	0	0	0
TOTAL # GEESE	180	0	0	2	0	0	182
# Mallard	1,442	972	140	6	125	0	2,685
# Northern pintail	0	190	2	1	2	0	195
# Gadwall	222	168	23	3	12	0	428
# American wigeon	0	0	0	0	0	0	0
# Green-winged teal	0	0	0	2	2	0	4
# Cinnamon teal	53	33	0	0	0	0	86
# Northern shoveler	150	0	0	0	4	0	154
# Wood duck	18	0	2	2	6	0	28
# other dabbling ducks	0	3	0	0	0	0	3
# Ring-necked duck	0	0	0	0	0	0	0
# Ruddy duck	170	0	1	0	0	0	171
# 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 diving ducks	0	0	0	0	0	0	0
TOTAL # DUCKS	2,055	1,366	168	14	151	0	3,754
TOTAL # WATERFOWL	2,235	1,366	168	16	151	0	3,936

July - Sacramento NWR Complex Waterfowl Survey Summary

Refuge surveyed	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit of Butte Sink WMA	Llano Seco Unit of Steve Thompson North Central Valley WMA	COMPLEX TOTALS
Survey date	7/14/2021	7/12/2021	7/14/2021	7/15/2021	7/16/2021	7/14/2021	-
% of Wetlands Flooded	17%	13%	12%	9%	0%	3%	-
# American coot	820	180	0	0	0	0	1,000
# 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	2	0	0	0	2
# Western Canada goose	240	15	0	0	0	0	255
# Aleutian cackling goose	0	0	0	0	0	0	0
# Cackling cackling goose	0	0	0	0	0	0	0
TOTAL # GEESE	240	15	2	0	0	0	257
# Mallard	1,620	610	2	30	0	0	2,262
# Northern pintail	45	0	0	0	0	0	45
# Gadwall	108	30	0	0	0	0	138
# American wigeon	0	0	0	0	0	0	0
# Green-winged teal	0	0	0	0	0	0	0
# Cinnamon teal	41	20	0	0	0	0	61
# Northern shoveler	50	0	0	0	0	0	50
# Wood duck	30	20	0	0	0	0	50
# other dabbling ducks	0	0	0	0	0	0	0
# Ring-necked duck	0	0	0	0	0	0	0
# Ruddy duck	65	0	0	0	0	0	65
# 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 diving ducks	0	0	0	0	0	0	0
TOTAL # DUCKS	1,959	680	2	30	0	0	2,671
TOTAL # WATERFOWL	2,199	695	4	30	0	0	2,928

August - Sacramento NWR Complex Waterfowl Survey Summary

Refuge surveyed	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit of Butte Sink WMA	Llano Seco Unit of Steve Thompson North Central Valley WMA	COMPLEX TOTALS
Survey date	8/16/2021	8/19/2021	8/17/2021	8/19/2021	8/19/2021	8/17/2021	-
% of Wetlands Flooded	13%	14%	4%	0%	0%	1%	-
# American coot	900	250	0	0	0	0	1,150
# 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	2	0	0	0	2
# Western Canada goose	193	220	12	0	0	0	425
# Aleutian cackling goose	0	0	0	0	0	0	0
# Cackling cackling goose	0	0	0	0	0	0	0
TOTAL # GEESE	193	220	14	0	0	0	427
# Mallard	5,910	2,000	12	16	0	0	7,938
# Northern pintail	1,600	1,300	6	1	0	0	2,907
# Gadwall	210	100	4	10	0	0	324
# American wigeon	0	0	0	0	0	0	0
# Green-winged teal	900	1,870	1	22	0	0	2,793
# Cinnamon teal	30	82	0	0	0	0	112
# Northern shoveler	300	160	1	0	0	0	461
# Wood duck	45	20	0	4	0	0	69
# other dabbling ducks	0	0	0	0	0	0	0
# Ring-necked duck	0	0	0	0	0	0	0
# Ruddy duck	85	0	0	0	0	0	85
# 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 diving ducks	0	0	0	0	0	0	0
TOTAL # DUCKS	9,080	5,532	24	53	0	0	14,689
TOTAL # WATERFOWL	9,273	5,752	38	53	0	0	15,116

October - Sacramento NWR Complex Waterfowl Survey Summary

Refuge surveyed	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit of Butte Sink WMA	Llano Seco Unit of Steve Thompson North Central Valley WMA	COMPLEX TOTALS
Survey date	10/14/2021	10/18/2021	10/18/2021	10/15/2021	10/15/2021	10/18/2021	-
% of Wetlands Flooded	57%	68%	67%	8%	56%	9%	-
# American coot	10,800	11,400	2,018	150	795	0	25,163
# Tundra swan	0	0	0	0	0	0	0
# Sandhill crane	10	625	1,154	0	140	323	2,252
# White-fronted goose	14,520	58,080	19,422	4,100	7,970	5,230	109,322
# White goose	8,650	19,520	400	150	390	16	29,126
# Western Canada goose	192	0	240	0	0	66	498
# Aleutian cackling goose	0	0	9	0	0	0	9
# Cackling cackling goose	0	830	36	0	0	40	906
TOTAL # GEESE	23,362	78,430	20,107	4,250	8,360	5,352	139,861
# Mallard	12,930	10,075	1,486	126	463	2	25,082
# Northern pintail	56,790	97,550	24,325	1,470	41,575	100	221,810
# Gadwall	17,600	16,650	3,344	70	706	2	38,372
# American wigeon	8,030	12,270	2,867	225	8,850	0	32,242
# Green-winged teal	39,955	32,250	5,855	445	11,880	0	90,385
# Cinnamon teal	128	100	26	0	32	0	286
# Northern shoveler	17,178	19,960	7,991	70	525	25	45,749
# Wood duck	0	50	0	0	22	0	72
# other dabbling ducks	0	0	0	0	0	0	0
# Ring-necked duck	4,470	1,300	163	0	580	0	6,513
# Ruddy duck	100	0	0	0	20	0	120
# Bufflehead	0	0	0	0	0	0	0
# Redhead	0	0	0	0	1	0	1
# Canvasback	0	0	0	0	0	0	0
# Lesser scaup	0	0	0	0	0	0	0
# other diving ducks	0	0	0	0	0	0	0
TOTAL # DUCKS	157,181	190,205	46,057	2,406	64,654	129	460,632
TOTAL # WATERFOWL	180,543	268,635	66,164	6,656	73,014	5,481	600,493

November - Sacramento NWR Complex Waterfowl Survey Summary

Refuge surveyed	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit of Butte Sink WMA	Llano Seco Unit of Steve Thompson North Central Valley WMA	COMPLEX TOTALS
Survey date	11/18/2021	11/16/2021	11/19/2021	11/16/2021	11/18/2021	11/18/2021	-
% of Wetlands Flooded	90%	91%	91%	28%	100%	81%	-
# American coot	39,200	18,600	9,680	1,215	5,810	391	74,896
# Tundra swan	0	0	0	0	0	0	0
# Sandhill crane	0	0	68	16	185	128	397
# White-fronted goose	10,950	6,370	1,810	3,975	2,733	6,889	32,727
# White goose	71,950	3,600	7,827	5,850	5,200	275	94,702
# Western Canada goose	170	0	30	0	0	259	459
# Aleutian cackling goose	0	0	0	0	0	0	0
# Cackling cackling goose	220	0	0	0	0	24	244
TOTAL # GEESE	83,290	9,970	9,667	9,825	7,933	7,447	128,132
# Mallard	16,589	14,824	4,376	718	1,057	520	38,084
# Northern pintail	82,840	49,740	26,014	27,890	37,320	22,325	246,129
# Gadwall	35,645	22,558	7,780	910	2,215	1,158	70,266
# American wigeon	15,810	9,820	11,233	5,325	15,690	12,743	70,621
# Green-winged teal	34,020	49,100	5,620	1,790	8,500	548	99,578
# Cinnamon teal	40	40	0	2	4	2	88
# Northern shoveler	27,900	17,820	13,389	685	1,728	2,174	63,696
# Wood duck	12	0	0	2	100	0	114
# other dabbling ducks	0	0	0	0	0	0	0
# Ring-necked duck	10,720	4,210	4,155	1,240	5,610	1	25,936
# Ruddy duck	900	700	11	20	450	0	2,081
# Bufflehead	210	180	23	3	195	9	620
# Redhead	0	0	0	4	4	0	8
# Canvasback	70	0	0	0	0	0	70
# Lesser scaup	0	0	0	0	0	0	0
# other diving ducks	0	0	0	3	0	0	3
TOTAL # DUCKS	224,756	168,992	72,601	38,592	72,873	39,480	617,294
TOTAL # WATERFOWL	308,046	178,962	82,268	48,417	80,806	46,927	745,426

December - Sacramento NWR Complex Waterfowl Survey Summary

Refuge surveyed	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit of Butte Sink WMA	Llano Seco Unit of Steve Thompson North Central Valley WMA	COMPLEX TOTALS
Survey date	12/14/2021	12/16/2021	12/17/2021	12/17/2021	no survey flooded	12/17/2021	-
% of Wetlands Flooded	97%	96%	98%	70%		98%	-
# American coot	32,300	31,850	10,055	2,783	-	563	77,551
# Tundra swan	0	18	0	0	-	0	18
# Sandhill crane	0	0	0	0	-	8	8
# White-fronted goose	15,413	12,900	11,709	14,516	-	1,715	56,253
# White goose	81,600	23,000	101,135	27,000	-	0	232,735
# Western Canada goose	90	17	0	0	-	18	125
# Aleutian cackling goose	0	0	0	0	-	0	0
# Cackling cackling goose	0	0	6	0	-	0	6
TOTAL # GEESE	97,103	35,917	112,850	41,516	-	1,733	289,119
# Mallard	14,626	13,840	2,924	2,132	-	291	33,813
# Northern pintail	69,558	39,810	31,891	29,191	-	12,880	183,330
# Gadwall	22,677	20,070	4,922	1,297	-	805	49,771
# American wigeon	7,720	6,160	16,010	17,177	-	8,278	55,345
# Green-winged teal	36,030	37,320	10,155	6,015	-	865	90,385
# Cinnamon teal	88	100	2	0	-	0	190
# Northern shoveler	30,331	23,410	12,073	1,451	-	4,402	71,667
# Wood duck	0	0	0	8	-	3	11
# other dabbling ducks	0	0	0	0	-	0	0
# Ring-necked duck	6,060	5,490	536	646	-	6	12,738
# Ruddy duck	1,180	560	310	0	-	0	2,050
# Bufflehead	136	90	51	66	-	39	382
# Redhead	0	0	0	0	-	0	0
# Canvasback	0	0	0	0	-	0	0
# Lesser scaup	0	0	0	0	-	0	0
# other diving ducks	8	0	0	0	-	0	8
TOTAL # DUCKS	188,414	146,850	78,874	57,983	-	27,569	499,690
TOTAL # WATERFOWL	285,517	182,767	191,724	99,499	-	29,302	788,809

January - Sacramento NWR Complex Waterfowl Survey Summary

Refuge surveyed	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit of Butte Sink WMA	Llano Seco Unit of Steve Thompson North Central Valley WMA	COMPLEX TOTALS
Survey date	1/20/2022	1/18/2022	1/21/2022	1/20/2022	1/19/2022	1/20/2022	-
% of Wetlands Flooded	97%	97%	98%	92%	100%	98%	-
# American coot	36,350	28,400	7,832	6,397	2,908	902	82,789
# Tundra swan	0	0	0	0	0	0	0
# Sandhill crane	0	22	0	0	0	452	474
# White-fronted goose	13,947	9,765	2,427	22,977	1,451	3,813	54,380
# White goose	87,715	33,510	15,716	9,415	2,285	8,804	157,445
# Western Canada goose	82	24	0	0	8	84	198
# Aleutian cackling goose	0	0	0	0	0	3	3
# Cackling cackling goose	50	0	0	0	0	601	651
TOTAL # GEESE	101,794	43,299	18,143	32,392	3,744	13,305	212,677
# Mallard	8,600	8,876	1,965	2,526	884	178	23,029
# Northern pintail	46,048	40,510	27,211	42,081	21,849	8,417	186,116
# Gadwall	25,060	16,340	5,149	2,790	1,520	816	51,675
# American wigeon	7,540	5,160	7,954	29,648	8,792	6,042	65,136
# Green-winged teal	22,750	37,230	3,144	21,918	7,725	1,425	94,192
# Cinnamon teal	30	75	2	8	0	1	116
# Northern shoveler	23,870	17,180	10,523	3,752	2,153	1,976	59,454
# Wood duck	0	0	0	14	6	0	20
# other dabbling ducks	0	0	0	0	0	0	0
# Ring-necked duck	11,120	4,635	2,057	1,860	3,280	165	23,117
# Ruddy duck	1,170	1,260	234	0	576	14	3,254
# Bufflehead	267	168	277	94	126	29	961
# Redhead	0	0	0	0	4	0	4
# Canvasback	0	0	0	0	0	0	0
# Lesser scaup	0	0	0	0	0	0	0
# other diving ducks	10	0	0	4	0	0	14
TOTAL # DUCKS	146,465	131,434	58,516	104,695	46,915	19,063	507,088
TOTAL # WATERFOWL	248,259	174,733	76,659	137,087	50,659	32,368	719,765

February - Sacramento NWR Complex Waterfowl Survey Summary

Refuge surveyed	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit of Butte Sink WMA	Llano Seco Unit of Steve Thompson North Central Valley WMA	COMPLEX TOTALS
Survey date	2/16/2022	2/17/2022	data pending	data pending	data pending	data pending	-
% of Wetlands Flooded	88%	91%	data pending	data pending	data pending	data pending	-
# American coot	20,400	22,450	-	-	-	-	42,850
# Tundra swan	0	0	-	-	-	-	0
# Sandhill crane	0	0	-	-	-	-	0
# White-fronted goose	8,308	10,300	-	-	-	-	18,608
# White goose	29,010	28,530	-	-	-	-	57,540
# Western Canada goose	102	15	-	-	-	-	117
# Aleutian cackling goose	0	0	-	-	-	-	0
# Cackling cackling goose	0	0	-	-	-	-	0
TOTAL # GEESE	37,420	38,845	-	-	-	-	76,265
# Mallard	3,428	2,850	-	-	-	-	6,278
# Northern pintail	30,445	20,210	-	-	-	-	50,655
# Gadwall	13,295	15,920	-	-	-	-	29,215
# American wigeon	4,780	3,910	-	-	-	-	8,690
# Green-winged teal	14,140	12,875	-	-	-	-	27,015
# Cinnamon teal	40	25	-	-	-	-	65
# Northern shoveler	28,545	26,490	-	-	-	-	55,035
# Wood duck	0	20	-	-	-	-	20
# other dabbling ducks	0	0	-	-	-	-	0
# Ring-necked duck	4,390	880	-	-	-	-	5,270
# Ruddy duck	560	1,080	-	-	-	-	1,640
# Bufflehead	194	200	-	-	-	-	394
# Redhead	0	0	-	-	-	-	0
# Canvasback	0	0	-	-	-	-	0
# Lesser scaup	50	0	-	-	-	-	50
# other diving ducks	0	0	-	-	-	-	0
TOTAL # DUCKS	99,867	84,460	-	-	-	-	184,327
TOTAL # WATERFOWL	137,287	123,305	-	-	-	-	260,592

March - Sacramento NWR Complex Waterfowl Survey Summary

Refuge surveyed	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit of Butte Sink WMA	Llano Seco Unit of Steve Thompson North Central Valley WMA	COMPLEX TOTALS
Survey date	3/22/2022	3/23/2022	3/23/2022	data pending	data pending	3/23/2022	-
% of Wetlands Flooded	82%	70%	71%			85%	-
# American coot	15,280	18,450	8,016	-	-	1,242	42,988
# Tundra swan	0	0	0	-	-	0	0
# Sandhill crane	0	0	0	-	-	0	0
# White-fronted goose	1,805	3,245	2,542	-	-	859	8,451
# White goose	11,860	5,270	2,858	-	-	5,181	25,169
# Western Canada goose	155	6	18	-	-	61	240
# Aleutian cackling goose	0	0	1	-	-	0	1
# Cackling cackling goose	0	0	25	-	-	60	85
TOTAL # GEESE	13,820	8,521	5,444	-	-	6,161	33,946
# Mallard	1,495	1,198	1,103	-	-	239	4,035
# Northern pintail	272	157	532	-	-	473	1,434
# Gadwall	8,658	6,300	2,159	-	-	713	17,830
# American wigeon	2,440	1,660	199	-	-	699	4,998
# Green-winged teal	9,005	12,810	3,772	-	-	1,391	26,978
# Cinnamon teal	100	70	36	-	-	4	210
# Northern shoveler	27,108	21,486	9,131	-	-	2,019	59,744
# Wood duck	0	8	27	-	-	0	35
# other dabbling ducks	0	0	0	-	-	0	0
# Ring-necked duck	640	190	156	-	-	136	1,122
# Ruddy duck	460	100	56	-	-	6	622
# Bufflehead	75	190	45	-	-	50	360
# Redhead	0	0	0	-	-	0	0
# Canvasback	0	0	0	-	-	0	0
# Lesser scaup	90	0	0	-	-	0	90
# other diving ducks	6	0	0	-	-	0	6
TOTAL # DUCKS	50,349	44,169	17,216	-	-	5,730	117,464
TOTAL # WATERFOWL	64,169	52,690	22,660	-	-	11,891	151,410

April - Sacramento NWR Complex Waterfowl Survey Summary

Refuge surveyed	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit of Butte Sink WMA	Llano Seco Unit of Steve Thompson North Central Valley WMA	COMPLEX TOTALS
Survey date	4/18/2022	4/15/2022	4/18/2022	4/21/2022	4/21/2022	4/18/2022	-
% of Wetlands Flooded	49%	44%	43%	54%	1%	43%	-
# American coot	22,050	11,500	3,467	3,732	0	225	40,974
# Tundra swan	0	0	0	0	0	0	0
# Sandhill crane	0	0	0	0	0	1	1
# White-fronted goose	2,870	5,975	2,896	3,533	0	530	15,804
# White goose	470	1,170	249	50	0	25	1,964
# Western Canada goose	172	18	3	10	0	130	333
# Aleutian cackling goose	0	0	0	0	0	0	0
# Cackling cackling goose	0	0	0	0	0	1	1
TOTAL # GEESE	3,512	7,163	3,148	3,593	0	686	18,102
# Mallard	1,939	537	413	855	4	316	4,064
# Northern pintail	0	30	138	7	0	21	196
# Gadwall	12,822	3,097	567	295	2	50	16,833
# American wigeon	1,010	434	20	24	0	529	2,017
# Green-winged teal	16,740	10,690	2,292	1,978	0	796	32,496
# Cinnamon teal	232	24	30	20	0	2	308
# Northern shoveler	13,521	5,880	3,256	553	1	916	24,127
# Wood duck	12	10	35	16	0	0	73
# other dabbling ducks	0	0	0	0	0	0	0
# Ring-necked duck	120	0	14	0	0	48	182
# Ruddy duck	50	0	1	4	0	0	55
# Bufflehead	0	0	0	2	0	2	4
# 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 diving ducks	0	0	0	0	0	0	0
TOTAL # DUCKS	46,446	20,702	6,766	3,754	7	2,680	80,355
TOTAL # WATERFOWL	49,958	27,865	9,914	7,347	7	3,366	98,457

May - Sacramento NWR Complex Waterfowl Survey Summary

Refuge surveyed	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit of Butte Sink WMA	Llano Seco Unit of Steve Thompson North Central Valley WMA	COMPLEX TOTALS
Survey date	5/17/2022	5/18/2022	5/16/2022	5/19/2022	5/19/2022	5/16/2022	-
% of Wetlands Flooded	16%	17%	8%	14%	0%	4%	-
# American coot	1,780	0	10	36	0	0	1,826
# Tundra swan	0	0	0	0	0	0	0
# Sandhill crane	0	0	0	0	0	0	0
# White-fronted goose	0	0	6	0	0	0	6
# White goose	0	0	11	0	0	0	11
# Western Canada goose	140	0	0	0	0	53	193
# Aleutian cackling goose	0	0	0	0	0	0	0
# Cackling cackling goose	0	0	0	0	0	0	0
TOTAL # GEESE	140	0	17	0	0	53	210
# Mallard	1,872	596	206	51	0	18	2,743
# Northern pintail	0	0	10	0	0	0	10
# Gadwall	158	12	16	2	0	2	190
# American wigeon	0	0	2	0	0	0	2
# Green-winged teal	0	0	4	0	0	0	4
# Cinnamon teal	100	46	4	0	0	0	150
# Northern shoveler	550	100	0	4	0	0	654
# Wood duck	2	20	26	7	0	0	55
# other dabbling ducks	2	2	0	0	0	0	4
# Ring-necked duck	3	0	2	0	0	2	7
# 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 diving ducks	0	0	0	0	0	0	0
TOTAL # DUCKS	2,687	776	270	64	0	22	3,819
TOTAL # WATERFOWL	2,827	776	287	64	0	75	4,029