

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento	Delevan	Colusa	Sutter	Butte Sink	Llano Seco Unit (North Central Valley WMA)	GRAND TOTALS
	NWR	NWR	NWR	NWR	Unit (Butte Sink WMA)	WMA)	
% of Wetlands Flooded	10%	15%	4%	0%	0%	4%	
Coot	1,400	400	50	0	0	0	1,850
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	0	0	2	0	0	0	2
White goose	0	0	0	0	0	0	0
Western Canada goose	180	105	0	0	0	0	285
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	180	105	2	0	0	0	287
Mallard	2,314	1,650	25	15	0	4	4,008
Pintail	4,950	6,600	0	0	0	0	11,550
Gadwall	300	250	0	0	0	0	550
Wigeon	0	0	0	0	0	0	0
Green-winged teal	7,750	900	0	0	0	0	8,650
Cinnamon teal	112	30	0	0	0	0	142
N. shoveler	880	500	0	0	0	0	1,380
Wood duck	70	50	1	0	0	0	121
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	16,376	9,980	26	15	0	4	26,401
Ring-necked duck	0	0	1	0	0	0	1
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	20	0	1	0	0	0	21
TOTAL DUCKS	16,396	9,980	27	15	0	4	26,422
TOTAL WATERFOWL	16,576	10,085	29	15	0	4	26,709
PERCENTAGES	62.1	37.8	0.1	0.1	0.0	0.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento NWR 9/19/2016	Delevan NWR 9/21/2016	Colusa NWR 9/23/2016	Sutter NWR 9/18/2016	Llano Seco Unit (North Central Valley WMA)		GRAND TOTALS
					Butte Sink Unit (Butte Sink WMA) 9/23/2016	9/22/2016	
% of Wetlands Flooded	40%	32%	15%	23%	85%	4%	
Coot	3,250	3,100	373	146	105	0	6,974
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	16,630	72,500	14,405	6	22	0	103,563
White goose	50	30	0	0	0	0	80
Western Canada goose	210	200	0	27	0	100	537
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	3	0	0	0	3
TOTAL GEESE	16,890	72,730	14,408	33	22	100	104,183
Mallard	13,050	7,750	111	823	90	0	21,824
Pintail	82,900	73,200	25,491	25,210	18,455	0	225,256
Gadwall	3,730	2,300	389	22	10	0	6,451
Wigeon	1,400	2,200	31	20	310	0	3,961
Green-winged teal	25,300	9,000	4,505	26	718	0	39,549
Cinnamon teal	150	180	4	2	2	0	338
N. shoveler	11,120	3,900	4,135	8	400	0	19,563
Wood duck	420	700	0	9	0	0	1,129
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	138,070	99,230	34,666	26,120	19,985	0	318,071
Ring-necked duck	0	0	0	0	200	0	200
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	200	0	200
TOTAL DUCKS	138,070	99,230	34,666	26,120	20,185	0	318,271
TOTAL WATERFOWL	154,960	171,960	49,074	26,153	20,207	100	422,454
PERCENTAGES	36.7	40.7	11.6	6.2	4.8	0.0	

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 Valley WMA)	
% of Wetlands Flooded	83%	80%	70%	62%	91%	31%	
Coot	26,150	16,100	2,240	823	1,750	44	47,107
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	181	361	0	27	938	1,507
White-fronted goose	150,230	68,700	38,257	53,552	1,590	11,300	323,629
White goose	3,200	1,100	156	0	9	0	4,465
Western Canada goose	1,665	0	0	0	1	401	2,067
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	70	0	6	0	1	0	77
TOTAL GEESE	155,165	69,800	38,419	53,552	1,601	11,701	330,238
Mallard	17,890	10,620	1,970	627	526	110	31,743
Pintail	238,400	130,700	18,171	14,760	68,207	80	470,318
Gadwall	35,950	18,000	1,343	106	3,575	110	59,084
Wigeon	33,700	23,150	3,574	98	26,410	40	86,972
Green-winged teal	52,650	46,700	4,865	117	9,380	10	113,722
Cinnamon teal	100	250	0	1	0	0	351
N. shoveler	43,050	17,400	3,085	85	800	10	64,430
Wood duck	130	300	14	44	0	0	488
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	421,870	247,120	33,022	15,838	108,898	360	827,108
Ring-necked duck	7,950	800	0	0	1,122	0	9,872
Ruddy duck	600	0	0	0	60	0	660
Bufflehead	0	0	1	0	0	1	2
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	8,550	800	1	0	1,182	1	10,534
TOTAL DUCKS	430,420	247,920	33,023	15,838	110,080	361	837,642
TOTAL WATERFOWL	585,585	317,720	71,442	69,390	111,681	12,062	1,167,880
PERCENTAGES	50.1	27.2	6.1	5.9	9.6	1.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Llano Seco Unit (North Central						GRAND TOTALS
	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit (Butte Sink WMA)	Valley WMA)	
% of Wetlands Flooded	11/15/2016	11/15/2016	11/18/2016	11/14/2016	11/14/2016	11/17/2016	
	91%	96%	92%	63%	100%	62%	
Coot	31,586	22,665	5,736	1,877	2,107	150	64,121
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	184	0	0	222	406
White-fronted goose	14,184	18,510	15,437	56,238	2,700	21,600	128,669
White goose	47,670	32,310	18,816	12,715	850	0	112,361
Western Canada goose	102	0	0	0	1	377	480
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	60	17	6	0	0	0	83
TOTAL GEESE	62,016	50,837	34,259	68,953	3,551	21,977	241,593
Mallard	16,488	21,281	2,368	763	365	970	42,235
Pintail	107,349	110,590	29,101	27,217	58,043	69,180	401,480
Gadwall	29,061	19,350	6,668	1,006	4,097	2,270	62,452
Wigeon	37,764	37,661	10,907	12,885	29,795	8,400	137,412
Green-winged teal	53,172	57,495	13,144	4,392	2,568	6,650	137,421
Cinnamon teal	320	30	1	1	1	0	353
N. shoveler	35,676	30,566	14,673	7,695	7,785	4,310	100,705
Wood duck	12	500	21	0	0	0	533
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	279,842	277,473	76,883	53,959	102,654	91,780	882,591
Ring-necked duck	11,875	0	441	0	600	0	12,916
Ruddy duck	2,266	450	2	0	440	0	3,158
Bufflehead	257	0	6	0	0	80	343
Redhead	0	0	0	0	0	0	0
Canvasback	2,572	0	1	0	0	0	2,573
Lesser scaup	100	0	0	0	0	0	100
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	17,070	450	450	0	1,040	80	19,090
TOTAL DUCKS	296,912	277,923	77,333	53,959	103,694	91,860	901,681
TOTAL WATERFOWL	358,928	328,760	111,592	122,912	107,245	113,837	1,143,274
PERCENTAGES	31.4	28.8	9.8	10.8	9.4	10.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento	Delevan	Colusa	Sutter	Butte Sink	Llano Seco Unit (North Central Valley WMA)	GRAND TOTALS
	NWR	NWR	NWR	NWR	Unit (Butte Sink WMA)	WMA)	
12/12/2016	12/12/2016	12/12/2016	12/12/2016	12/13/2016	no survey	12/13/2016	
% of Wetlands Flooded	100%	100%	96%		due to flooding	72%	
Coot	56,700	26,145	13,964	2,160	-	930	99,899
Tundra Swan	0	0	0	0	-	0	0
Sandhill Crane	0	0	0	0	-	6	6
White-fronted goose	14,610	15,235	8,010	53,886	-	4,850	96,591
White goose	52,450	67,995	37,140	18,145	-	6,004	181,734
Western Canada goose	170	24	0	0	-	122	316
Aleutian Canada goose	0	0	0	0	-	0	0
Cackling Canada goose	0	0	0	0	-	0	0
TOTAL GEESE	67,230	83,254	45,150	72,031	-	10,976	278,641
Mallard	17,406	20,241	4,148	1,046	-	2,040	44,881
Pintail	143,330	73,025	48,132	28,215	-	31,075	323,777
Gadwall	38,030	18,191	12,411	1,167	-	940	70,739
Wigeon	22,830	21,290	23,408	12,792	-	4,875	85,195
Green-winged teal	42,150	43,795	37,566	1,467	-	2,015	126,993
Cinnamon teal	160	0	0	0	-	0	160
N. shoveler	37,966	46,964	28,148	6,101	-	5,515	124,694
Wood duck	100	6	8	0	-	0	114
other dabblers	0	0	0	0	-	0	0
TOTAL DABLERS	301,972	223,512	153,821	50,788	-	46,460	776,553
Ring-necked duck	12,350	3,300	1,585	0	-	0	17,235
Ruddy duck	4,300	1,490	3	0	-	0	5,793
Bufflehead	440	530	85	8	-	91	1,154
Redhead	0	0	0	0	-	0	0
Canvasback	300	1	0	0	-	0	301
Lesser scaup	0	0	0	0	-	0	0
other divers	0	0	0	0	-	0	0
TOTAL DIVERS	17,390	5,321	1,673	8	-	91	24,483
TOTAL DUCKS	319,362	228,833	155,494	50,796	-	46,551	801,036
TOTAL WATERFOWL	386,592	312,087	200,644	122,827	-	57,527	1,079,677
PERCENTAGES	35.8	28.9	18.6	11.4	-	5.3	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date % of Wetlands Flooded	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Butte Sink Unit (Butte Sink WMA)	Llano Seco Unit (North Central Valley WMA)	GRAND TOTALS
Coot	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	0	0	0	0	0	0	0
Mallard	0	0	0	0	0	0	0
Pintail	0	0	0	0	0	0	0
Gadwall	0	0	0	0	0	0	0
Wigeon	0	0	0	0	0	0	0
Green-winged teal	0	0	0	0	0	0	0
Cinnamon teal	0	0	0	0	0	0	0
N. shoveler	0	0	0	0	0	0	0
Wood duck	0	0	0	0	0	0	0
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
TOTAL WATERFOWL	0	0	0	0	0	0	0
PERCENTAGES	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

Jan cancelled due to flooding

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento NWR 2/13/2017	Delevan NWR 2/15/2017	Colusa NWR 2/15/2017	Sutter NWR no survey due to flooding	Butte Sink Unit (Butte Sink WMA) no survey due to flooding	Llano Seco Unit (North Central Valley WMA)	GRAND TOTALS
						2/15/2017	
% of Wetlands Flooded	100%	100%	100%				
Coot	37,100	35,684	8,439	-	-	3,160	84,383
Tundra Swan	0	0	0	-	-	0	0
Sandhill Crane	0	0	0	-	-	0	0
White-fronted goose	15,600	13,572	2,436	-	-	7,015	38,623
White goose	44,400	25,146	5,930	-	-	18,500	93,976
Western Canada goose	48	15	0	-	-	42	105
Aleutian Canada goose	0	0	0	-	-	0	0
Cackling Canada goose	80	0	0	-	-	330	410
TOTAL GEESE	60,128	38,733	8,366	-	-	25,887	133,114
Mallard	12,510	16,317	2,545	-	-	322	31,694
Pintail	37,630	32,630	17,411	-	-	3,310	90,981
Gadwall	23,480	15,403	7,755	-	-	3,080	49,718
Wigeon	14,870	27,751	8,473	-	-	9,760	60,854
Green-winged teal	63,130	52,802	6,560	-	-	1,850	124,342
Cinnamon teal	200	0	133	-	-	0	333
N. shoveler	29,030	49,340	11,290	-	-	5,400	95,060
Wood duck	0	0	9	-	-	0	9
other dabblers	0	0	0	-	-	0	0
TOTAL DABLERS	180,850	194,243	54,176	-	-	23,722	452,991
Ring-necked duck	4,790	1,092	261	-	-	540	6,683
Ruddy duck	3,630	600	147	-	-	20	4,397
Bufflehead	910	174	44	-	-	32	1,160
Redhead	0	0	0	-	-	0	0
Canvasback	20	0	0	-	-	0	20
Lesser scaup	120	0	0	-	-	0	120
other divers	0	0	0	-	-	0	0
TOTAL DIVERS	9,470	1,866	452	-	-	592	12,380
TOTAL DUCKS	190,320	196,109	54,628	-	-	24,314	465,371
TOTAL WATERFOWL	250,448	234,842	62,994	-	-	50,201	598,485
PERCENTAGES	41.8	39.2	10.5	-	-	8.4	