

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento	Delevan	Colusa	Sutter	Butte Sink	Llano Seco Unit (North Central Valley WMA)	GRAND TOTALS
	NWR 6/11/2015	NWR 6/12/2015	NWR	NWR	Unit (Butte Sink WMA)	WMA)	
% of Wetlands Flooded							
Coot	1,290	500	0	0	0	0	1,790
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	70	0	0	0	0	0	70
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	70	0	0	0	0	0	70
Mallard	1,738	850	0	0	0	0	2,588
Pintail	60	0	0	0	0	0	60
Gadwall	251	104	0	0	0	0	355
Wigeon	0	0	0	0	0	0	0
Green-winged teal	0	0	0	0	0	0	0
Cinnamon teal	58	36	0	0	0	0	94
N. shoveler	100	0	0	0	0	0	100
Wood duck	10	14	0	0	0	0	24
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	2,217	1,004	0	0	0	0	3,221
Ring-necked duck	10	0	0	0	0	0	10
Ruddy duck	30	0	0	0	0	0	30
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	40	0	0	0	0	0	40
TOTAL DUCKS	2,257	1,004	0	0	0	0	3,261
PERCENTAGES	69.2	30.8	0.0	0.0	0.0	0.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento	Delevan	Colusa	Sutter	Butte Sink	Llano Seco Unit (North Central Valley WMA)	GRAND TOTALS
	NWR 7/16/2015	NWR 7/20/2015	NWR	NWR	Unit (Butte Sink WMA)	WMA)	
% of Wetlands Flooded							
Coot	1,070	360	0	0	0	0	1,430
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	234	65	0	0	0	0	299
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	234	65	0	0	0	0	299
Mallard	1,780	530	0	0	0	0	2,310
Pintail	200	20	0	0	0	0	220
Gadwall	314	40	0	0	0	0	354
Wigeon	0	0	0	0	0	0	0
Green-winged teal	0	0	0	0	0	0	0
Cinnamon teal	132	150	0	0	0	0	282
N. shoveler	70	0	0	0	0	0	70
Wood duck	10	20	0	0	0	0	30
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	2,506	760	0	0	0	0	3,266
Ring-necked duck	20	0	0	0	0	0	20
Ruddy duck	90	0	0	0	0	0	90
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	110	0	0	0	0	0	110
TOTAL DUCKS	2,616	760	0	0	0	0	3,376
PERCENTAGES	77.5	22.5	0.0	0.0	0.0	0.0	

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)	
% of Wetlands Flooded	10%	15%	4%	0%	0%	1%	
Coot	1,300	550	5	0	0	0	1,855
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	150	170	0	0	0	19	339
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	150	170	0	0	0	19	339
Mallard	3,780	4,680	145	0	0	0	8,605
Pintail	2,950	12,700	20	0	0	0	15,670
Gadwall	350	300	3	0	0	0	653
Wigeon	0	0	4	0	0	0	4
Green-winged teal	3,330	1,250	0	0	0	0	4,580
Cinnamon teal	190	210	1	0	0	0	401
N. shoveler	410	350	0	0	0	0	760
Wood duck	50	20	0	0	0	0	70
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	11,060	19,510	173	0	0	0	30,743
Ring-necked duck	0	0	0	0	0	0	0
Ruddy duck	50	0	0	0	0	0	50
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	50	0	0	0	0	0	50
TOTAL DUCKS	11,110	19,510	173	0	0	0	30,793
PERCENTAGES	36.1	63.4	0.6	0.0	0.0	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	17%	22%	1%	1%	<1%	<1%	
Coot	2,200	600	0	0	0	0	2,800
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	90	230	0	22	0	0	342
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	90	230	0	22	0	0	342
Mallard	5,600	3,500	60	10	5	37	9,212
Pintail	45,400	30,700	2	200	5	0	76,307
Gadwall	2,200	750	7	0	0	0	2,957
Wigeon	250	20	0	0	0	0	270
Green-winged teal	16,500	8,750	4	0	10	0	25,264
Cinnamon teal	50	160	2	0	0	0	212
N. shoveler	3,300	1,950	40	0	0	0	5,290
Wood duck	0	170	0	0	0	0	170
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	73,300	46,000	115	210	20	37	119,682
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	73,300	46,000	115	210	20	37	119,682
PERCENTAGES	61.2	38.4	0.1	0.2	0.0	0.0	

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)	
% of Wetlands Flooded	32%	34%	9%	7%	1%	2%	
Coot	2,850	0	82	0	0	0	2,932
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	1,995	6,000	12	250	0	0	8,257
White goose	0	2	0	0	0	0	2
Western Canada goose	245	84	3	0	0	26	358
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	2,240	6,086	15	250	0	26	8,617
Mallard	7,120	14,425	257	1,050	10	7	22,869
Pintail	49,000	99,201	16,369	30,960	100	0	195,630
Gadwall	6,780	775	6	330	0	0	7,891
Wigeon	2,350	865	736	330	0	0	4,281
Green-winged teal	18,620	12,935	767	0	0	0	32,322
Cinnamon teal	320	115	0	0	1	0	436
N. shoveler	10,670	3,380	725	330	70	6	15,181
Wood duck	0	109	0	0	0	0	109
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	94,860	131,805	18,860	33,000	181	13	278,719
Ring-necked duck	0	0	0	0	0	0	0
Ruddy duck	50	0	0	0	0	0	50
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	50	0	0	0	0	0	50
TOTAL DUCKS	94,910	131,805	18,860	33,000	181	13	278,769
PERCENTAGES	34.0	47.3	6.8	11.8	0.1	0.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento	Delevan	Colusa	Sutter	Butte Sink	Llano Seco Unit (North Central Valley WMA)	GRAND TOTALS
	NWR 10/5/2015	NWR 10/8/2015	NWR 10/7/2015	NWR 10/8/2015	Unit (Butte Sink WMA) 10/8/2015	WMA) 10/7/2015	
% of Wetlands Flooded	56%	62%	31%	7%	1%	4%	
Coot	14,500	13,050	1,437	400	0	0	29,387
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	17	180	475	0	0	18	690
White-fronted goose	111,870	85,500	31,390	77,500	4	0	306,264
White goose	7,550	1,500	211	0	0	0	9,261
Western Canada goose	190	32	85	0	0	0	307
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	90	72	0	0	0	162
TOTAL GEESE	119,610	87,122	31,758	77,500	4	0	315,994
Mallard	18,270	10,190	3,565	2,800	0	0	34,825
Pintail	111,500	146,200	51,780	93,000	0	0	402,480
Gadwall	19,870	12,330	2,305	1,200	2	0	35,707
Wigeon	7,350	8,000	895	1,200	0	0	17,445
Green-winged teal	38,450	33,200	8,855	800	0	0	81,305
Cinnamon teal	260	160	5	0	0	0	425
N. shoveler	26,250	21,270	6,250	1,000	2	0	54,772
Wood duck	90	240	5	0	0	0	335
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	222,040	231,590	73,660	100,000	4	0	627,294
Ring-necked duck	2,400	1,500	100	0	0	0	4,000
Ruddy duck	500	450	0	0	0	0	950
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	2	0	0	0	2
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	2,900	1,950	102	0	0	0	4,952
TOTAL DUCKS	224,940	233,540	73,762	100,000	4	0	632,246
PERCENTAGES	35.6	36.9	11.7	15.8	0.0	0.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento NWR 10/20/2015	Delevan NWR 10/19/2015	Colusa NWR 10/21/2015	Sutter NWR 10/22/2015	Llano Seco Unit (North Central		GRAND TOTALS
					Butte Sink Unit (Butte Sink WMA) 10/22/2015	Valley WMA) 10/22/2015	
% of Wetlands Flooded	76%	77%	70%	7%	25%	29%	
Coot	26,200	19,650	3,495	600	150	12	50,107
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	6	271	342	0	50	50	719
White-fronted goose	76,030	58,480	8,690	29,200	3,500	1,826	177,726
White goose	21,850	1,800	27	10	0	0	23,687
Western Canada goose	306	70	118	0	0	30	524
Aleutian Canada goose	0	0	1	0	0	0	1
Cackling Canada goose	80	0	77	0	0	0	157
TOTAL GEESE	98,266	60,350	8,913	29,210	3,500	1,856	202,095
Mallard	18,112	10,320	1,998	2,100	50	71	32,651
Pintail	229,710	75,650	51,466	96,540	50	705	454,121
Gadwall	30,560	14,780	4,436	2,100	0	150	52,026
Wigeon	25,850	9,750	6,818	2,100	50	176	44,744
Green-winged teal	38,250	24,400	3,177	1,060	0	118	67,005
Cinnamon teal	140	500	8	0	0	0	648
N. shoveler	41,550	17,050	3,051	2,100	0	59	63,810
Wood duck	100	200	1	50	0	1	352
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	384,272	152,650	70,955	106,050	150	1,280	715,357
Ring-necked duck	7,100	4,800	106	0	0	0	12,006
Ruddy duck	850	0	0	0	0	1	851
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	7,950	4,800	106	0	0	1	12,857
TOTAL DUCKS	392,222	157,450	71,061	106,050	150	1,281	728,214
PERCENTAGES	53.9	21.6	9.8	14.6	0.0	0.2	

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	11/6/2015	11/5/2015	11/3/2015	11/5/2015	11/5/2015	11/5/2015	
	84%	87%	83%	7%	76%	26%	
Coot	33,700	20,600	8,976	400	2,350	0	66,026
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	206	255	0	308	430	1,199
White-fronted goose	21,180	11,690	8,376	21,500	2,670	1,745	67,161
White goose	12,300	3,900	600	500	0	0	17,300
Western Canada goose	100	10	0	0	0	181	291
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	33,580	15,600	8,976	22,000	2,670	1,926	84,752
Mallard	14,495	12,875	3,285	850	708	168	32,381
Pintail	277,000	125,300	35,821	74,300	134,371	707	647,499
Gadwall	39,650	19,380	9,150	850	8,800	277	78,107
Wigeon	43,000	26,350	8,414	2,300	35,175	212	115,451
Green-winged teal	44,550	55,740	2,739	1,500	650	21	105,200
Cinnamon teal	230	120	30	0	0	0	380
N. shoveler	46,480	25,180	10,189	3,100	800	338	86,087
Wood duck	2	0	3	0	0	0	5
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	465,407	264,945	69,631	82,900	180,504	1,723	1,065,110
Ring-necked duck	19,360	2,500	510	0	10,000	0	32,370
Ruddy duck	700	250	0	0	10	0	960
Bufflehead	120	50	0	0	0	9	179
Redhead	0	0	0	0	0	0	0
Canvasback	100	0	0	0	0	0	100
Lesser scaup	0	0	0	0	0	0	0
other divers*	0	0	0	0	0	9	9
TOTAL DIVERS	20,280	2,800	510	0	10,010	18	33,618
TOTAL DUCKS	485,687	267,745	70,141	82,900	190,514	1,741	1,098,728
PERCENTAGES	44.2	24.4	6.4	7.5	17.3	0.2	

*other divers on Llano Seco Unit = hooded merganser

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	93%	93%	91%	9%	94%	48%	
Coot	35,960	24,850	6,325	200	4,350	118	71,803
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	278	293	0	16	241	828
White-fronted goose	23,398	11,700	9,944	6,600	1,600	1,572	54,814
White goose	82,700	26,060	17,355	4,200	300	0	130,615
Western Canada goose	100	0	1	0	0	386	487
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	210	0	12	0	0	65	287
TOTAL GEESE	106,408	37,760	27,312	10,800	1,900	2,023	186,203
Mallard	14,334	9,750	3,899	682	1,066	412	30,143
Pintail	239,980	136,800	29,372	20,940	49,995	8,825	485,912
Gadwall	41,790	24,530	5,071	1,390	6,700	772	80,253
Wigeon	51,800	28,500	10,184	8,475	40,780	4,555	144,294
Green-winged teal	34,230	60,700	11,073	850	640	204	107,697
Cinnamon teal	86	220	42	2	0	2	352
N. shoveler	41,130	31,320	9,792	2,725	1,180	1,451	87,598
Wood duck	0	0	4	0	0	0	4
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	423,350	291,820	69,437	35,064	100,361	16,221	936,253
Ring-necked duck	21,400	1,200	1,035	0	4,000	2	27,637
Ruddy duck	1,950	1,250	0	10	500	0	3,710
Bufflehead	110	270	87	0	10	14	491
Redhead	0	0	0	0	0	0	0
Canvasback	200	0	2	0	20	0	222
Lesser scaup	0	0	0	0	0	0	0
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	23,660	2,720	1,124	10	4,530	16	32,060
TOTAL DUCKS	447,010	294,540	70,561	35,074	104,891	16,237	968,313
PERCENTAGES	46.2	30.4	7.3	3.6	10.8	1.7	

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	94%	98%	93%	28%	98%	68%	
Coot	55,550	31,800	5,862	1,040	4,700	666	99,618
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	76	2	0	0	901	979
White-fronted goose	18,360	14,320	5,227	4,920	580	1,550	44,957
White goose	117,900	95,900	30,185	22,001	3,500	5,500	274,986
Western Canada goose	116	0	0	0	0	165	281
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	185	20	0	0	0	2	207
TOTAL GEESE	136,561	110,240	35,412	26,921	4,080	7,217	320,431
Mallard	18,522	13,040	3,690	930	3,320	599	40,101
Pintail	151,310	88,750	19,570	74,385	169,175	14,208	517,398
Gadwall	46,400	26,600	7,520	1,170	45,820	687	128,197
Wigeon	28,770	17,050	11,283	18,335	94,850	11,101	181,389
Green-winged teal	63,000	69,950	14,004	920	9,840	4,558	162,272
Cinnamon teal	288	130	34	0	0	0	452
N. shoveler	53,010	35,050	11,159	1,180	3,325	2,386	106,110
Wood duck	0	20	2	20	0	2	44
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	361,300	250,590	67,262	96,940	326,330	33,541	1,135,963
Ring-necked duck	17,400	5,000	835	0	5,500	0	28,735
Ruddy duck	2,700	3,500	132	0	1,020	0	7,352
Bufflehead	590	180	152	5	10	37	974
Redhead	0	0	0	0	0	0	0
Canvasback	700	0	0	0	0	0	700
Lesser scaup	50	0	0	0	0	0	50
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	21,440	8,680	1,119	5	6,530	37	37,811
TOTAL DUCKS	382,740	259,270	68,381	96,945	332,860	33,578	1,173,774
PERCENTAGES	32.6	22.1	5.8	8.3	28.4	2.9	

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	94%	98%	95%	53%	98%	69%	
Coot	49,100	25,800	7,184	1,200	7,000	671	90,955
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	44	0	0	152	196
White-fronted goose	22,146	13,300	8,347	2,970	530	2,212	49,505
White goose	32,700	40,500	32,980	4,001	2,000	0	112,181
Western Canada goose	157	30	0	0	0	48	235
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	130	0	75	0	0	69	274
TOTAL GEESE	55,133	53,830	41,402	6,971	2,530	2,329	162,195
Mallard	21,066	9,410	2,548	1,635	580	710	35,949
Pintail	108,050	39,330	20,518	16,655	53,790	12,461	250,804
Gadwall	35,180	25,700	7,737	2,350	6,100	740	77,807
Wigeon	9,600	3,750	4,686	11,535	24,520	12,341	66,432
Green-winged teal	49,460	54,050	13,169	6,925	3,730	3,651	130,985
Cinnamon teal	95	20	6	0	0	0	121
N. shoveler	39,680	26,850	11,356	4,360	7,560	1,771	91,577
Wood duck	0	0	0	0	0	2	2
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	263,131	159,110	60,020	43,460	96,280	31,676	653,677
Ring-necked duck	8,750	3,000	1,806	20	6,000	54	19,630
Ruddy duck	4,950	1,650	147	0	1,000	4	7,751
Bufflehead	230	260	197	20	0	30	737
Redhead	0	0	0	0	0	0	0
Canvasback	50	0	0	0	0	0	50
Lesser scaup	0	0	0	0	0	0	0
other divers	0	0	1	0	0	0	1
TOTAL DIVERS	13,980	4,910	2,151	40	7,000	88	28,169
TOTAL DUCKS	277,111	164,020	62,171	43,500	103,280	31,764	681,846
PERCENTAGES	40.6	24.1	9.1	6.4	15.1	4.7	

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
PERCENTAGES	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

Cancelled due to staffing

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
PERCENTAGES	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

cancelled due to weather

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	98%	99%	95%	96%			
Coot	52,400	15,650	8,203	2,389	0	0	78,642
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	16,200	8,865	1,658	4,164	0	0	30,887
White goose	34,400	20,510	8,288	500	0	0	63,698
Western Canada goose	82	1	0	21	0	0	104
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	50,682	29,376	9,946	4,685	0	0	94,689
Mallard	16,090	9,732	3,002	1,301	0	0	30,125
Pintail	55,610	25,895	20,638	5,853	0	0	107,996
Gadwall	26,380	9,155	6,394	2,083	0	0	44,012
Wigeon	12,700	9,253	6,381	1,075	0	0	29,409
Green-winged teal	26,490	15,690	12,822	2,338	0	0	57,340
Cinnamon teal	149	50	22	0	0	0	221
N. shoveler	36,920	24,377	15,303	3,414	0	0	80,014
Wood duck	0	4	0	0	0	0	4
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	174,339	94,156	64,562	16,064	0	0	349,121
Ring-necked duck	4,360	135	455	1,218	0	0	6,168
Ruddy duck	5,200	1,378	559	45	0	0	7,182
Bufflehead	330	78	75	64	0	0	547
Redhead	0	1	0	0	0	0	1
Canvasback	200	0	0	0	0	0	200
Lesser scaup	0	0	0	0	0	0	0
other divers	2	0	0	2	0	0	4
TOTAL DIVERS	10,092	1,592	1,089	1,329	0	0	14,102
TOTAL DUCKS	184,431	95,748	65,651	17,393	0	0	363,223
PERCENTAGES	50.8	26.4	18.1	4.8	0.0	0.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento	Delevan	Colusa	Sutter	Butte Sink	Llano Seco Unit (North Central Valley WMA)	GRAND TOTALS
	NWR 2/16/2016	NWR 2/20/2016	NWR	NWR	Unit (Butte Sink WMA)	WMA)	
% of Wetlands Flooded							
Coot	49,450	17,725	0	0	0	0	67,175
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	14,103	10,430	0	0	0	0	24,533
White goose	61,730	32,146	0	0	0	0	93,876
Western Canada goose	62	15	0	0	0	0	77
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	75,895	42,591	0	0	0	0	118,486
Mallard	13,350	5,429	0	0	0	0	18,779
Pintail	55,610	28,080	0	0	0	0	83,690
Gadwall	28,810	10,079	0	0	0	0	38,889
Wigeon	10,620	10,685	0	0	0	0	21,305
Green-winged teal	41,100	19,380	0	0	0	0	60,480
Cinnamon teal	90	0	0	0	0	0	90
N. shoveler	38,710	25,385	0	0	0	0	64,095
Wood duck	0	0	0	0	0	0	0
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	188,290	99,038	0	0	0	0	287,328
Ring-necked duck	4,480	205	0	0	0	0	4,685
Ruddy duck	1,650	775	0	0	0	0	2,425
Bufflehead	290	101	0	0	0	0	391
Redhead	0	0	0	0	0	0	0
Canvasback	50	0	0	0	0	0	50
Lesser scaup	0	0	0	0	0	0	0
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	6,470	1,081	0	0	0	0	7,551
TOTAL DUCKS	194,760	100,119	0	0	0	0	294,879
PERCENTAGES	66.0	34.0	0.0	0.0	0.0	0.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento	Delevan	Colusa	Sutter	Butte Sink	Llano Seco Unit (North Central Valley WMA)	GRAND TOTALS
	NWR 3/24/2016	NWR 3/25/2016	NWR	NWR	Unit (Butte Sink WMA)	WMA)	
% of Wetlands Flooded							
Coot	29,330	21,562	0	0	0	0	50,892
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	1,125	4,115	0	0	0	0	5,240
White goose	0	7	0	0	0	0	7
Western Canada goose	77	15	0	0	0	0	92
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	1,202	4,137	0	0	0	0	5,339
Mallard	1,547	1,036	0	0	0	0	2,583
Pintail	90	83	0	0	0	0	173
Gadwall	7,980	2,426	0	0	0	0	10,406
Wigeon	2,310	10	0	0	0	0	2,320
Green-winged teal	17,780	16,448	0	0	0	0	34,228
Cinnamon teal	220	68	0	0	0	0	288
N. shoveler	18,870	26,136	0	0	0	0	45,006
Wood duck	10	20	0	0	0	0	30
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	48,807	46,227	0	0	0	0	95,034
Ring-necked duck	660	64	0	0	0	0	724
Ruddy duck	600	210	0	0	0	0	810
Bufflehead	90	24	0	0	0	0	114
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	1,350	298	0	0	0	0	1,648
TOTAL DUCKS	50,157	46,525	0	0	0	0	96,682
PERCENTAGES	51.9	48.1	0.0	0.0	0.0	0.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento	Delevan	Colusa	Sutter	Butte Sink	Llano Seco Unit (North Central Valley WMA)	GRAND TOTALS
	NWR 4/6/2016	NWR 4/8/2016	NWR	NWR	Unit (Butte Sink WMA)	WMA)	
% of Wetlands Flooded							
Coot	38,780	19,945	0	0	0	0	58,725
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	740	3,364	0	0	0	0	4,104
White goose	0	23	0	0	0	0	23
Western Canada goose	116	11	0	0	0	0	127
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	856	3,398	0	0	0	0	4,254
Mallard	1,592	641	0	0	0	0	2,233
Pintail	50	0	0	0	0	0	50
Gadwall	10,802	3,883	0	0	0	0	14,685
Wigeon	1,920	10	0	0	0	0	1,930
Green-winged teal	16,855	12,119	0	0	0	0	28,974
Cinnamon teal	238	91	0	0	0	0	329
N. shoveler	19,955	19,831	0	0	0	0	39,786
Wood duck	20	16	0	0	0	0	36
other dabblers ¹	0	2	0	0	0	0	2
TOTAL DABLERS	51,432	36,593	0	0	0	0	88,025
Ring-necked duck	780	12	0	0	0	0	792
Ruddy duck	350	30	0	0	0	0	380
Bufflehead	160	25	0	0	0	0	185
Redhead	0	0	0	0	0	0	0
Canvasback	0	0	0	0	0	0	0
Lesser scaup	20	0	0	0	0	0	20
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	1,310	67	0	0	0	0	1,377
TOTAL DUCKS	52,742	36,660	0	0	0	0	89,402
PERCENTAGES	59.0	41.0	0.0	0.0	0.0	0.0	

¹Other dabblers at Delevan = Blue-winged teal

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento	Delevan	Colusa	Sutter	Butte Sink	Llano Seco Unit (North Central Valley WMA)	GRAND TOTALS
	NWR 4/21/2016	NWR 4/27/2016	NWR	NWR	Unit (Butte Sink WMA)	WMA)	
% of Wetlands Flooded							
Coot	17,900	6,725	0	0	0	0	24,625
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	600	1,995	0	0	0	0	2,595
White goose	0	1	0	0	0	0	1
Western Canada goose	79	23	0	0	0	0	102
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	679	2,019	0	0	0	0	2,698
Mallard	1,364	588	0	0	0	0	1,952
Pintail	0	8	0	0	0	0	8
Gadwall	4,120	573	0	0	0	0	4,693
Wigeon	3,110	318	0	0	0	0	3,428
Green-winged teal	6,370	1,904	0	0	0	0	8,274
Cinnamon teal	174	143	0	0	0	0	317
N. shoveler	3,538	3,739	0	0	0	0	7,277
Wood duck	18	14	0	0	0	0	32
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	18,694	7,287	0	0	0	0	25,981
Ring-necked duck	20	0	0	0	0	0	20
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	20	0	0	0	0	0	20
TOTAL DUCKS	18,714	7,287	0	0	0	0	26,001
PERCENTAGES	72.0	28.0	0.0	0.0	0.0	0.0	

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)	
% of Wetlands Flooded	5/23/2016	5/16/2016					
Coot	1,900	1,022	0	0	0	0	2,922
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	70	16	0	0	0	0	86
White goose	0	5	0	0	0	0	5
Western Canada goose	67	17	0	0	0	0	84
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	137	38	0	0	0	0	175
Mallard	783	242	0	0	0	0	1,025
Pintail	50	7	0	0	0	0	57
Gadwall	356	54	0	0	0	0	410
Wigeon	0	0	0	0	0	0	0
Green-winged teal	0	7	0	0	0	0	7
Cinnamon teal	78	53	0	0	0	0	131
N. shoveler	210	13	0	0	0	0	223
Wood duck	16	9	0	0	0	0	25
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	1,493	385	0	0	0	0	1,878
Ring-necked duck	30	0	0	0	0	0	30
Ruddy duck	0	8	0	0	0	0	8
Bufflehead	0	5	0	0	0	0	5
Redhead	0	17	0	0	0	0	17
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	30	30	0	0	0	0	60
TOTAL DUCKS	1,523	415	0	0	0	0	1,938
PERCENTAGES	78.6	21.4	0.0	0.0	0.0	0.0	