

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento	Delevan	Colusa	Sutter	Butte Sink	Llano Seco Unit (North Central Valley WMA)	GRAND TOTALS
	NWR 8/13/2018	NWR 8/16/2018	NWR 8/16/2018	NWR 8/14/2018	Unit (Butte Sink WMA) 8/16/2018	8/15/2018	
% of Wetlands Flooded	7%	11%	9%	1%	0%	2%	
Coot	200	300	2	0	0	0	502
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	50	150	57	0	0	0	257
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	50	150	57	0	0	0	257
Mallard	3,258	1,150	122	2	0	3	4,535
Pintail	1,200	0	0	0	0	0	1,200
Gadwall	100	20	14	0	0	0	134
Wigeon	0	0	0	0	0	0	0
Green-winged teal	350	0	0	0	0	0	350
Cinnamon teal	245	110	4	0	0	0	359
N. shoveler	50	0	8	1	0	0	59
Wood duck	80	20	37	0	0	0	137
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	5,283	1,300	185	3	0	3	6,774
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	5,283	1,300	185	3	0	3	6,774
TOTAL WATERFOWL	5,333	1,450	242	3	0	3	7,031
PERCENTAGES	75.8	20.6	3.4	0.0	0.0	0.0	100.0

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento NWR 9/17/2018	Delevan NWR 9/19/2018	Colusa NWR 9/18/2018	Sutter NWR 9/20/2018	Llano Seco Unit (North Central Valley WMA)		GRAND TOTALS
					Butte Sink Unit (Butte Sink WMA) 9/18/2018	9/18/2018	
% of Wetlands Flooded	24%	29%	23%	16%	97%	3%	
Coot	750	900	48	168	313	0	2,179
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	11,790	20,300	254	241	0	0	32,585
White goose	0	0	0	0	0	0	0
Western Canada goose	150	80	168	0	0	79	477
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	11,940	20,380	422	241	0	79	33,062
Mallard	3,800	3,560	386	389	244	130	8,509
Pintail	24,600	29,800	9,709	21,170	1,085	0	86,364
Gadwall	1,440	980	169	107	62	20	2,778
Wigeon	530	1,150	94	603	1	0	2,378
Green-winged teal	8,300	3,980	720	180	438	0	13,618
Cinnamon teal	180	130	24	53	10	0	397
N. shoveler	6,150	4,120	120	225	726	0	11,341
Wood duck	0	380	1	2	0	0	383
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	45,000	44,100	11,223	22,729	2,566	150	125,768
Ring-necked duck	0	0	0	0	0	0	0
Ruddy duck	10	0	0	0	0	0	10
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	10	0	0	0	0	0	10
TOTAL DUCKS	45,010	44,100	11,223	22,729	2,566	150	125,778
TOTAL WATERFOWL	56,950	64,480	11,645	22,970	2,566	229	158,840
PERCENTAGES	35.9	40.6	7.3	14.5	1.6	0.1	100.0

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	69%	66%	74%	45%	100%	33%	
Coot	12,241	10,450	3,903	2,251	4,328	72	33,245
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	140	522	1,115	0	53	1,200	3,030
White-fronted goose	62,604	60,630	25,759	40,390	1,666	7,425	198,474
White goose	1,394	950	373	0	0	1	2,718
Western Canada goose	417	0	0	0	0	411	828
Aleutian Canada goose	0	160	0	0	0	0	160
Cackling Canada goose	0	0	1	0	0	1	2
TOTAL GEESE	64,415	61,740	26,133	40,390	1,666	7,838	202,182
Mallard	10,513	6,450	2,914	2,013	1,290	200	23,380
Pintail	118,918	95,700	36,919	65,840	42,120	890	360,387
Gadwall	15,984	13,400	7,097	1,428	4,108	404	42,421
Wigeon	22,605	14,400	4,059	6,030	21,095	180	68,369
Green-winged teal	35,416	26,300	6,438	2,380	2,695	0	73,229
Cinnamon teal	35	70	2	9	0	0	116
N. shoveler	22,340	19,000	7,370	2,175	6,695	253	57,833
Wood duck	64	70	1	44	0	0	179
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	225,875	175,390	64,800	79,919	78,003	1,927	625,914
Ring-necked duck	1,975	700	40	150	15,435	0	18,300
Ruddy duck	0	0	0	0	370	0	370
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	1,975	700	40	150	15,805	0	18,670
TOTAL DUCKS	227,850	176,090	64,840	80,069	93,808	1,927	644,584
TOTAL WATERFOWL	292,265	237,830	90,973	120,459	95,474	9,765	846,766
PERCENTAGES	34.5	28.1	10.7	14.2	11.3	1.2	100.0

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento NWR		Delevan NWR		Colusa NWR		Sutter NWR		Llano Seco Unit (North Central Valley WMA)		GRAND TOTALS
	11/15/2018	11/19/2018	11/15/2018	11/19/2018	11/15/2018	11/19/2018	11/15/2018	11/19/2018	11/15/2018	11/19/2018	
% of Wetlands Flooded	96%	97%	93%	73%	100%	77%					
Coot	36,490	24,430	10,335	2,422	6,018	347					80,042
Tundra Swan	0	0	0	0	0	0					0
Sandhill Crane	0	0	22	0	0	147					169
White-fronted goose	21,240	6,258	10,342	19,980	1,400	16,136					75,356
White goose	68,750	56,100	34,504	49,150	4,650	29,400					242,554
Western Canada goose	150	0	11	0	0	406					567
Aleutian Canada goose	0	0	0	0	0	0					0
Cackling Canada goose	260	0	46	0	0	18					324
TOTAL GEESE	90,400	62,358	44,903	69,130	6,050	45,960					318,801
Mallard	24,925	13,524	5,804	1,944	900	614					47,711
Pintail	225,320	117,130	51,156	40,930	77,110	21,703					533,349
Gadwall	41,250	18,760	10,999	2,153	8,365	505					82,032
Wigeon	34,455	32,620	16,188	12,270	72,478	2,668					170,679
Green-winged teal	50,800	43,600	25,423	2,480	24,838	1,273					148,414
Cinnamon teal	10	0	4	8	0	0					22
N. shoveler	38,480	20,490	20,759	3,392	22,763	772					106,656
Wood duck	15	10	120	57	11	0					213
other dabblers	0	0	0	0	0	0					0
TOTAL DABLERS	415,255	246,134	130,453	63,234	206,465	27,535					1,089,076
Ring-necked duck	25,290	1,100	60	200	901	0					27,551
Ruddy duck	650	100	0	0	550	0					1,300
Bufflehead	340	0	2	7	0	13					362
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	26,280	1,200	62	207	1,451	13					29,213
TOTAL DUCKS	441,535	247,334	130,515	63,441	207,916	27,548					1,118,289
TOTAL WATERFOWL	531,935	309,692	175,418	132,571	213,966	73,508					1,437,090
PERCENTAGES	37.0	21.5	12.2	9.2	14.9	5.1					100.0

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento NWR	Delevan NWR	Colusa NWR	Sutter NWR	Llano Seco Unit (North Central Valley WMA)		GRAND TOTALS
					Butte Sink Unit (Butte Sink WMA)	Central Valley WMA)	
% of Wetlands Flooded		100%	98%	92%	100%	96%	
Coot	N	24,450	10,933	5,412	482	621	41,898
Tundra Swan	O	0	0	0	0	0	0
Sandhill Crane		0	0	0	0	48	48
	S						
White-fronted goose	U	7,990	1,468	11,992	585	4,425	26,460
White goose	R	4,300	20,442	24,740	4,100	0	53,582
Western Canada goose	V	20	0	0	0	213	233
Aleutian Canada goose	E	0	0	0	0	0	0
Cackling Canada goose	Y	0	0	0	0	130	130
TOTAL GEESE	0	12,310	21,910	36,732	4,685	4,768	80,405
Mallard	D	13,382	5,212	2,988	814	351	22,747
Pintail	U	40,650	33,078	61,738	14,350	13,535	163,351
Gadwall	E	15,600	7,167	3,253	1,589	583	28,192
Wigeon		10,700	9,414	46,189	10,082	7,065	83,450
Green-winged teal	T	36,600	13,727	14,145	2,281	2,200	68,953
Cinnamon teal	O	0	0	22	0	0	22
N. shoveler		21,740	16,714	5,634	2,698	1,805	48,591
Wood duck		0	0	14	0	4	18
other dabblers		0	0	0	0	0	0
TOTAL DABLERS	0	138,672	85,312	133,983	31,814	25,543	415,324
Ring-necked duck	W	2,600	72	1,040	3,500	25	7,237
Ruddy duck	E	500	2	20	800	0	1,322
Bufflehead	A	800	175	6	0	173	1,154
Redhead	T	0	0	0	0	0	0
Canvasback	H	0	0	0	0	0	0
Lesser scaup	E	0	0	0	0	0	0
other divers	R	0	0	0	0	0	0
TOTAL DIVERS	0	3,900	249	1,066	4,300	198	9,713
TOTAL DUCKS	0	142,572	85,561	135,049	36,114	25,741	425,037
TOTAL WATERFOWL	0	154,882	107,471	171,781	40,799	30,509	505,442
PERCENTAGES	0.0	30.6	21.3	34.0	8.1	6.0	100.0

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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	N	N	N	N	N	N	N
Tundra Swan	O	O	O	O	O	O	O
Sandhill Crane	S	S	S	S	S	S	S
White-fronted goose	U	U	U	U	U	U	U
White goose	R	R	R	R	R	R	R
Western Canada goose	V	V	V	V	V	V	V
Aleutian Canada goose	E	E	E	E	E	E	E
Cackling Canada goose	Y	Y	Y	Y	Y	Y	Y
TOTAL GEESE							
Mallard	D	D	D	D	D	D	D
Pintail	U	U	U	U	U	U	U
Gadwall	E	E	E	E	E	E	E
Wigeon	T	T	T	T	T	T	T
Green-winged teal	T	T	T	T	T	T	T
Cinnamon teal	O	O	O	O	O	O	O
N. shoveler							
Wood duck							
other dabblers							
TOTAL DABLERS							
Ring-necked duck	S	S	S	S	S	S	S
Ruddy duck	H	H	H	H	H	H	H
Bufflehead	U	U	U	U	U	U	U
Redhead	T	T	T	T	T	T	T
Canvasback	D	D	D	D	D	D	D
Lesser scaup	O	O	O	O	O	O	O
other divers	W	W	W	W	W	W	W
	N	N	N	N	N	N	N
TOTAL DIVERS							
TOTAL DUCKS							
TOTAL WATERFOWL PERCENTAGES							