

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 9/7/2009	Delevan 9/9/2009	Colusa 9/9/2009	Sutter 9/9/2009	Butte Sink 9/9/2009	SUB TOTALS	Llano Seco	GRAND TOTALS
Coot	2630	1150	11	20	500	4311	0	4311
Tundra Swan	0	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0	0
White-fronted goose	98	25	0	0	0	123	0	123
Tule W-F goose	0	0	0	0	0	0	0	0
White goose	0	0	0	0	0	0	0	0
Western Canada goose	135	0	0	0	6	141	0	141
Aleutian Canada goose	0	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0	0
TOTAL GEESE	233	25	0	0	6	264	0	264
Mallard	11426	5000	3739	1270	1500	22935	0	22935
Pintail	77100	40000	5341	1835	1520	125796	0	125796
Gadwall	6050	2440	684	245	250	9669	0	9669
Wigeon	1200	1080	0	40	50	2370	0	2370
Green-winged teal	20940	7750	241	0	305	29236	0	29236
Cinnamon teal	400	220	1	40	0	661	0	661
N. shoveler	10440	4750	433	60	1500	17183	0	17183
Wood duck	20	220	4	20	50	314	0	314
other dabblers	0	0	0	0	0	0	0	0
TOTAL DABLERS	127576	61460	10443	3510	5175	208164	0	208164
Ring-necked duck	0	0	0	0	0	0	0	0
Ruddy duck	0	0	2	0	0	2	0	2
Bufflehead	0	0	0	0	0	0	0	0
Redhead	0	0	0	0	0	0	0	0
Canvasback	0	0	0	0	0	0	0	0
Lesser scaup	0	0	0	0	0	0	0	0
other divers	0	0	0	0	0	0	0	0
TOTAL DIVERS	0	0	2	0	0	2	0	2
TOTAL DUCKS	127576	61460	10445	3510	5175	208166	0	208166
PERCENTAGES	61.3	29.5	5.0	1.7	2.5		0.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 9/24/2009	Delevan 9/23/2009	Colusa 9/23/2009	Sutter 9/24/2009	Butte Sink 9/23/2009	Llano Seco	GRAND TOTALS
Coot	11080	5080	285	400	206	0	17051
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	70	60	0	16	0	146
White-fronted goose	2750	1753	29	0	50	0	4582
Tule W-F goose	0	0	83	0	0	0	83
White goose	0	0	0	0	0	0	0
Western Canada goose	198	95	3	0	0	0	296
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
Undiff. Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	2948	1848	115	0	50	0	4961
Mallard	12520	11270	4178	3845	1268	0	33081
Pintail	110710	68500	8596	14325	7495	0	209626
Gadwall	13570	6320	1144	610	678	0	22322
Wigeon	6390	7290	2947	1250	4707	0	22584
Green-winged teal	15950	9600	900	0	30	0	26480
Cinnamon teal	290	370	30	150	2	0	842
N. shoveler	15070	10110	2272	452	698	0	28602
Wood duck	110	270	0	60	20	0	460
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	174610	113730	20067	20692	14898	0	343997
Ring-necked duck	100	230	0	0	550	0	880
Ruddy duck	0	0	0	0	70	0	70
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	100	230	0	0	620	0	950
TOTAL DUCKS	174710	113960	20067	20692	15518	0	344947
PERCENTAGES	50.6	33.0	5.8	6.0	4.5	0.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 10/5/2009	Delevan 10/6/2009	Colusa 10/7/2009	Sutter 10/8/2009	Butte Sink 10/8/2009	Llano Seco 10/7/2009	GRAND TOTALS
Coot	13750	10350	1671	1150	362	0	27283
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	111	75	0	95	571	852
White-fronted goose	145680	123550	37785	11345	10675	20	329055
Tule W-F goose	0	0	0	0	0	0	0
White goose	3560	850	55	8	31	0	4504
Western Canada goose	110	100	0	0	0	229	439
Aleutian Canada goose	0	0	0	0	25	0	25
Cackling Canada goose	30	0	0	0	0	0	30
Undiff. Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	149380	124500	37840	11353	10731	249	334053
Mallard	16610	12120	3414	5366	752	430	38692
Pintail	116240	161860	17099	14502	7070	4600	321371
Gadwall	16060	16980	3876	1131	800	210	39057
Wigeon	8630	12030	10645	3626	4330	50	39311
Green-winged teal	30210	40500	5085	459	616	130	77000
Cinnamon teal	540	340	94	0	0	0	974
N. shoveler	23570	13810	5381	1209	1480	50	45500
Wood duck	100	470	4	60	32	0	666
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	211960	258110	45598	26353	15080	5470	562571
Ring-necked duck	3850	350	56	80	2900	0	7236
Ruddy duck	100	0	0	0	300	0	400
Bufflehead	0	0	0	0	0	0	0
Redhead	0	0	0	0	0	0	0
Canvasback	10	0	0	0	0	0	10
Lesser scaup	0	0	0	0	0	0	0
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	3960	350	56	80	3200	0	7646
TOTAL DUCKS	215920	258460	45654	26433	18280	5470	570217
PERCENTAGES	37.9	45.3	8.0	4.6	3.2	1.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 10/19/2009	Delevan 10/21/2009	Colusa 10/22/2009	Sutter 10/20/2009	Butte Sink 10/22/2009	Llano Seco 10/24/2009	GRAND TOTALS
Coot	21770	12050	2510	1210	1044	111	38695
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	16	54	0	63	1027	1160
White-fronted goose	122900	168880	18993	52740	4120	110	367743
Tule W-F goose	0	0	0	0	0	0	0
White goose	9000	6950	174	25	0	0	16149
Western Canada goose	150	14	0	2	0	179	345
Aleutian goose	0	0	0	120	0	0	120
Cackling goose	0	12	0	0	3	0	15
Undiff. Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	132050	175856	19167	52887	4123	289	384372
Mallard	31684	33375	2591	15550	682	2910	86792
Pintail	459180	113890	9498	28350	26100	21515	658533
Gadwall	38930	18987	5447	2960	3654	425	70403
Wigeon	40000	14135	6450	7225	10440	2110	80360
Green-winged teal	87650	51610	5427	0	7833	610	153130
Cinnamon teal	190	1815	126	2	2	0	2135
N. shoveler	29840	22770	5890	2625	2610	230	63965
Wood duck	50	30	40	100	20	0	240
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	687524	256612	35469	56812	51341	27800	1115558
Ring-necked duck	2650	540	320	10	1150	0	4670
Ruddy duck	50	0	50	0	75	0	175
Bufflehead	0	0	0	0	0	1	1
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	2700	540	370	10	1225	1	4846
TOTAL DUCKS	690224	257152	35839	56822	52566	27801	1120404
PERCENTAGES	61.6	23.0	3.2	5.1	4.7	2.5	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 11/2/2009	Delevan 11/3/2009	Colusa 11/3/2009	Sutter 11/2/2009	Butte Sink 11/5/2009	Llano Seco 11/5/2009	GRAND TOTALS
Coot	24850	18130	3773	1550	3812	157	52272
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	64	0	0	162	226
White-fronted goose	83200	90525	15935	69650	5045	2808	267163
Tule W-F goose	0	0	0	0	0	0	0
White goose	47450	39400	3540	1800	0	0	92190
Western Canada goose	200	60	0	0	0	465	725
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	35	0	0	0	0	0	35
Undiff. Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	130885	129985	19475	71450	5045	3273	360113
Mallard	24876	24577	2911	7681	2528	2500	65073
Pintail	476767	203370	12589	22650	56522	35420	807318
Gadwall	35089	25650	4510	2125	6667	800	74841
Wigeon	44550	31320	6999	3750	36430	1165	124214
Green-winged teal	57660	68850	4660	4	3310	10	134494
Cinnamon teal	272	160	38	0	0	0	470
N. shoveler	36145	23980	6644	3350	5448	2250	77817
Wood duck	20	110	130	4	25	20	309
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	675379	378017	38481	39564	110930	42165	1284536
Ring-necked duck	9450	3480	350	6	1300	0	14586
Ruddy duck	720	400	0	0	775	0	1895
Bufflehead	20	60	0	1	0	0	81
Redhead	0	0	0	0	0	0	0
Canvasback	200	0	0	0	25	0	225
Lesser scaup	0	0	0	0	0	0	0
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	10390	3940	350	7	2100	0	16787
TOTAL DUCKS	685769	381957	38831	39571	113030	42165	1301323
PERCENTAGES	52.7	29.4	3.0	3.0	8.7	3.2	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Butte		Llano		GRAND		
	Sacramento 11/19/2009	Delevan 11/17/2009	Colusa 11/17/2009	Sutter 11/17/2009	Sink 11/18/2009	Seco 11/16/2009	TOTALS
Coot	27360	22350	6325	1120	1943	262	59360
Tundra Swan	0	0	2	0	0	0	2
Sandhill Crane	0	0	4	0	3	231	238
White-fronted goose	46980	29350	17900	43536	985	10100	148851
Tule W-F goose	0	0	0	0	0	0	0
White goose	85200	55800	21315	19500	2060	20	183895
Western Canada goose	90	18	1	0	0	406	515
Aleutian goose	0	0	0	0	0	0	0
Cackling goose	420	0	4	0	0	0	424
Undiff. Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	132690	85168	39220	63036	3045	10526	333685
Mallard	29143	24130	5169	5795	1045	2387	67669
Pintail	308030	177800	43893	41830	77460	35400	684413
Gadwall	33696	27450	12035	1927	13665	605	89378
Wigeon	20560	28705	24275	6010	38525	7760	125835
Green-winged teal	75800	85760	16280	0	17387	120	195347
Cinnamon teal	130	50	12	0	4	0	196
N. shoveler	30410	24820	19270	2325	13415	3260	93500
Wood duck	0	0	60	0	0	0	60
other dabblers	0	0	0	0	0	0	0
TOTAL DABBLERS	497769	368715	120994	57887	161501	49532	1256398
Ring-necked duck	7510	3200	1950	10	154	0	12824
Ruddy duck	1200	500	20	0	40	0	1760
Bufflehead	20	180	0	1	34	100	335
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	8730	3880	1970	11	228	100	14919
TOTAL DUCKS	506499	372595	122964	57898	161729	49632	1271317
PERCENTAGES	39.8	29.3	9.7	4.6	12.7	3.9	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Butte		Llano		GRAND		
	Sacramento 11/30/2009	Delevan 12/1/2009	Colusa 12/1/2009	Sutter 12/1/2009	Sink 12/4/2009	Seco 12/3/2009	TOTALS
Coot	26220	25260	6542	1860	14150	544	74576
Tundra Swan	0	0	6	0	0	0	6
Sandhill Crane	0	0	4	0	0	465	469
White-fronted goose	26850	28800	17675	37550	900	220	111995
Tule W-F goose	0	0	0	0	0	0	0
White goose	96000	47400	58380	60950	38500	0	301230
Western Canada goose	34	80	1	0	0	493	608
Aleutian goose	0	0	0	0	0	0	0
Cackling goose	112	30	6	0	0	6	154
Undiff. Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	122996	76310	76062	98500	39400	719	413987
Mallard	21792	18424	4981	5221	8755	2315	61488
Pintail	186590	87935	23248	38420	252580	38905	627678
Gadwall	21260	23433	10363	1686	20575	895	78212
Wigeon	7080	7550	16678	6000	131560	6300	175168
Green-winged teal	30050	61500	10131	318	19955	245	122199
Cinnamon teal	330	180	16	5	2	0	533
N. shoveler	21580	23894	16152	4820	19965	3005	89416
Wood duck	0	0	12	102	0	0	114
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	288682	222916	81581	56572	453392	51665	1154808
Ring-necked duck	6430	4000	585	12	700	0	11727
Ruddy duck	4440	7600	120	0	625	0	12785
Bufflehead	280	0	50	11	24	86	451
Redhead	0	0	0	0	0	0	0
Canvasback	0	0	0	0	6	0	6
Lesser scaup	0	0	0	2	0	0	2
other divers ¹	0	0	2	0	0	0	2
TOTAL DIVERS	11150	11600	757	25	1355	86	24973
TOTAL DUCKS	299832	234516	82338	56597	454747	51751	1179781
PERCENTAGES	25.4	19.9	7.0	4.8	38.5	4.4	

¹ Other divers = Common Goldeneye

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 12/17/2009	Delevan 12/15/2009	Colusa 12/14/2009	Sutter 12/14/2009	Butte Sink 12/18/2009	Llano Seco	GRAND TOTALS
Coot	36460	27210	10263	3490	11295	0	88718
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	26260	3900	9940	25070	3025	N	68195
Tule W-F goose	0	0	0	0	0	O	0
White goose	69600	200	23290	41945	170	0	135205
Western Canada goose	222	90	0	0	0	D	312
Aleutian goose	0	0	0	0	0	A	0
Cackling goose ¹	150	0	6	9	0	T	165
Undiff. Canada goose	0	0	0	0	0	A	0
TOTAL GEESE	96232	4190	33236	67024	3195	0	203877
Mallard	22830	15966	10451	7373	3033	A	59653
Pintail	180710	66910	50522	36935	113365	V	448442
Gadwall	30870	24870	16722	2885	11178	A	86525
Wigeon	8680	10740	28312	8965	60838	I	117535
Green-winged teal	29150	52170	29792	2200	13580	L	126892
Cinnamon teal	310	200	167	0	0	A	677
N. shoveler	22901	21474	25234	2830	11473	B	83912
Wood duck	0	60	0	0	0	L	60
other dabblers	0	0	0	0	0	E	0
TOTAL DABBLERS	295451	192390	161200	61188	213467	0	923696
Ring-necked duck	14465	3240	810	195	500	0	19210
Ruddy duck	5930	5200	215	0	575	0	11920
Bufflehead	390	350	19	22	18	0	799
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 ²	0	0	1	0	0	0	1
TOTAL DIVERS	20785	8790	1045	217	1093	0	31930
TOTAL DUCKS	316236	201180	162245	61405	214560	0	955626
PERCENTAGES	33.1	21.1	17.0	6.4	22.5	0.0	

¹ Includes one cackling Canada X whitefront hybrid at Sutter NWR.

² Common merganser

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento	Delevan	Colusa 2/2/2010	Sutter 2/8/2010	Butte Sink	Llano Seco 2/2/2010	GRAND TOTALS
Coot	0	0	9,975	5,290	0	2,811	18,076
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	32	32
White-fronted goose	0	0	10,439	21,890	0	7,160	39,489
Tule W-F goose	0	0	0	0	0	3	3
White goose	0	0	12,550	28,750	0	420	41,720
Western Canada goose	0	0	5	6	0	64	75
Aleutian goose	N	N	0	0	N	0	0
Cackling goose	O	O	0	0	O	5	5
Undiff. Canada goose	0	0	0	0	T	0	0
TOTAL GEESE	0	0	22,994	50,646	0	7,652	81,292
Mallard	S	S	12,457	11,850	S	3,842	28,149
Pintail	U	U	73,495	68,285	U	16,120	157,900
Gadwall	R	R	17,585	3,735	R	3,000	24,320
Wigeon	V	V	42,224	6,520	V	6,960	55,704
Green-winged teal	E	E	24,545	7,430	E	8,860	40,835
Cinnamon teal	Y	Y	14	82	Y	40	136
N. shoveler	0	0	24,258	11,010	E	6,490	41,758
Wood duck	0	0	21	0	D	0	21
other dabblers	0	0	0	0	0	0	0
TOTAL DABBLERS	0	0	194,599	108,912	0	45,312	348,823
Ring-necked duck	A	A	670	50	F	20	740
Ruddy duck	V	V	200	40	L	80	320
Bufflehead	A	A	25	25	O	90	140
Redhead	I	I	0	0	O	0	0
Canvasback	L	L	0	0	D	0	0
Lesser scaup	A	A	0	50	E	0	50
other divers	B	B	0	0	D	0	0
TOTAL DIVERS	L E	L E	895	165	0	190	1,250
TOTAL DUCKS	#VALUE!	#VALUE!	195,494	109,077	0	45,502	350,073
PERCENTAGES	#VALUE!	#VALUE!	55.8	31.2	0.0	13.0	