

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 9/3/2013	Delevan 9/4/2013	Colusa 9/5/2013	Sutter 9/6/2013	Butte Sink 9/6/2013	SUB TOTALS	Llano Seco 9/4/2013	GRAND TOTALS
Coot	1600	850	7	0	80	2537	0	2537
Tundra Swan	0	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0	0
White-fronted goose	25	0	0	0	0	25	0	25
White goose	0	0	0	0	0	0	0	0
Western Canada goose	280	240	97	0	0	617	240	857
Aleutian Canada goose	0	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0	0
TOTAL GEESE	305	240	97	0	0	642	240	882
Mallard	5040	7290	433	195	506	13464	0	13464
Pintail	27250	30800	3514	1602	4142	67308	0	67308
Gadwall	3400	1270	16	10	14	4710	0	4710
Wigeon	370	150	0	10	2	532	0	532
Green-winged teal	7180	5650	496	0	230	13556	0	13556
Cinnamon teal	240	220	6	10	0	476	0	476
N. shoveler	7120	3460	140	100	76	10896	0	10896
Wood duck	34	85	19	0	13	151	0	151
other dabblers	0	0	0	0	0	0	0	0
TOTAL DABLERS	50634	48925	4624	1927	4983	111093	0	111093
Ring-necked duck	0	0	0	0	0	0	0	0
Ruddy duck	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0
TOTAL DUCKS	50634	48925	4624	1927	4983	111093	0	111093
PERCENTAGES	45.6	44.0	4.2	1.7	4.5		0.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 9/16/2013	Delevan 9/17/2013	Colusa 9/20/2013	Sutter 9/17/2013	Butte Sink 9/20/2013	SUB TOTALS	Llano Seco 9/19/2013	GRAND TOTALS
Coot	6150	4550	1000	200	700	12600	0	12600
Tundra Swan	0	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0	0
White-fronted goose	300	99	55	0	0	454	0	454
White goose	0	0	0	0	0	0	0	0
Western Canada goose	360	170	1	0	0	531	0	531
Aleutian Canada goose	0	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0	0
TOTAL GEESE	660	269	56	0	0	985	0	985
Mallard	13310	8180	3070	2415	1430	28405	0	28405
Pintail	76150	44600	31570	18060	53410	223790	0	223790
Gadwall	9758	3100	950	210	400	14418	0	14418
Wigeon	850	730	75	210	460	2325	0	2325
Green-winged teal	27580	16050	5470	390	3170	52660	0	52660
Cinnamon teal	320	440	10	40	0	810	0	810
N. shoveler	18400	12300	5244	585	5565	42094	0	42094
Wood duck	62	300	14	50	50	476	0	476
other dabblers	0	0	0	0	0	0	0	0
TOTAL DABLERS	146430	85700	46403	21960	64485	364978	0	364978
Ring-necked duck	150	0	0	0	100	250	0	250
Ruddy duck	0	0	0	0	0	0	0	0
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	150	0	0	0	100	250	0	250
TOTAL DUCKS	146580	85700	46403	21960	64585	365228	0	365228
PERCENTAGES	40.1	23.5	12.7	6.0	17.7		0.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 10/17/2013	Delevan 10/18/2013	Colusa 10/17/2013	Sutter 10/17/2013	Butte Sink 10/18/2013	SUB TOTALS	Llano Seco 10/18/2013	GRAND TOTALS
Coot	26650	13710	2678	750	5431	49219	0	49219
Tundra Swan	0	0	0	0	0	0	0	0
Sandhill Crane	0	44	337	0	20	401	148	549
White-fronted goose	214000	134410	41999	19600	2205	412214	0	412214
White goose	17750	10251	309	70	0	28380	0	28380
Western Canada goose	182	0	4	0	0	186	100	286
Aleutian Canada goose	0	0	0	0	0	0	0	0
Cackling Canada goose	120	0	26	0	1	147	0	147
TOTAL GEESE	232052	144661	42338	19670	2206	440927	100	441027
Mallard	16330	20320	2976	900	701	41227	0	41227
Pintail	153290	138170	72239	7800	184490	555989	0	555989
Gadwall	33450	15145	7846	80	7160	63681	14	63695
Wigeon	16560	27480	10707	730	47046	102523	4	102527
Green-winged teal	38450	36080	6218	450	226	81424	0	81424
Cinnamon teal	200	30	6	0	0	236	0	236
N. shoveler	40130	22770	15358	1430	2862	82550	0	82550
Wood duck	20	72	4	0	14	110	0	110
other dabblers	0	0	0	0	0	0	0	0
TOTAL DABLERS	298430	260067	115354	11390	242499	927740	18	927758
Ring-necked duck	5350	320	60	0	6350	12080	0	12080
Ruddy duck	800	100	0	0	345	1245	0	1245
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	6150	420	60	0	6695	13325	0	13325
TOTAL DUCKS	304580	260487	115414	11390	249194	941065	18	941083
PERCENTAGES	32.4	27.7	12.3	1.2	26.5		0.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 11/12/2013	Delevan 11/12/2013	Colusa 11/4/2013	Sutter 11/7/2013	Butte Sink 11/7/2013	SUB TOTALS	Llano Seco 11/8/2013	GRAND TOTALS
Coot	41720	14440	6500	890	2772	66322	1	66323
Tundra Swan	0	0	0	0	0	0	0	0
Sandhill Crane	0	7	89	0	0	96	258	354
White-fronted goose	33865	10540	14501	70000	1502	130408	8001	138409
White goose	63050	48671	7866	19050	234	138871	0	138871
Western Canada goose	160	27	2	0	0	189	1	190
Aleutian Canada goose	0	0	0	0	0	0	0	0
Cackling Canada goose	50	0	53	0	0	103	0	103
TOTAL GEESE	97125	59238	22422	89050	1736	269571	8002	277573
Mallard	16196	14060	5441	2850	340	38887	1200	40087
Pintail	286653	246705	44605	43535	73343	694841	6400	701241
Gadwall	40015	31127	5160	2910	1301	80513	1100	81613
Wigeon	39950	41620	13134	7155	45035	146894	100	146994
Green-winged teal	38850	54080	15674	410	975	109989	1400	111389
Cinnamon teal	270	10	0	0	0	280	0	280
N. shoveler	44700	31007	15942	4525	9098	105272	400	105672
Wood duck	0	0	12	10	2	24	0	24
other dabblers	0	0	0	0	0	0	0	0
TOTAL DABLERS	466634	418609	99968	61395	130094	1176700	10600	1187300
Ring-necked duck	9070	215	310	0	1525	11120	0	11120
Ruddy duck	900	120	0	0	240	1260	0	1260
Bufflehead	120	39	0	0	0	159	12	171
Redhead	15	0	0	0	0	15	0	15
Canvasback	400	0	0	0	0	400	0	400
Lesser scaup	0	0	0	0	0	0	0	0
other divers	0	0	0	0	0	0	0	0
TOTAL DIVERS	10505	374	310	0	1765	12954	12	12966
TOTAL DUCKS	477139	418983	100278	61395	131859	1189654	10612	1200266
PERCENTAGES	39.8	34.9	8.4	5.1	11.0		0.9	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 11/22/2013	Delevan 11/25/2013	Colusa 11/18/2013	Sutter 11/18/2013	Butte Sink 11/18/2013	SUB TOTALS	Llano Seco 11/21/2013	GRAND TOTALS
Coot	29800	25950	7756	1020	2157	66683	0	66683
Tundra Swan	11	0	0	0	0	11	0	11
Sandhill Crane	0	2	224	0	7	233	366	599
White-fronted goose	9000	21360	16780	36950	1998	86088	4560	90648
White goose	77850	53520	56107	42550	1420	231447	0	231447
Western Canada goose	100	110	0	0	0	210	370	580
Aleutian Canada goose	0	0	0	0	0	0	0	0
Cackling Canada goose	0	20	276	1	0	297	0	297
TOTAL GEESE	86950	75010	73163	79501	3418	318042	4930	322972
Mallard	19900	18833	5571	5525	908	50737	635	51372
Pintail	123710	134510	38878	62477	93912	453487	23775	477262
Gadwall	32850	28216	7568	3000	928	72562	600	73162
Wigeon	5320	4850	11088	13695	27555	62508	345	62853
Green-winged teal	30900	32100	10423	2650	3390	79463	3140	82603
Cinnamon teal	90	65	67	0	0	222	0	222
N. shoveler	24810	21870	21210	8340	5566	81796	905	82701
Wood duck	0	0	17	0	4	21	0	21
other dabblers	0	0	0	0	0	0	0	0
TOTAL DABLERS	237580	240444	94822	95687	132263	800796	29400	830196
Ring-necked duck	3350	2230	270	13	6008	11871	0	11871
Ruddy duck	700	1600	10	0	968	3278	0	3278
Bufflehead	120	260	2	1	1	384	60	444
Redhead	0	0	0	0	0	0	0	0
Canvasback	130	10	0	0	0	140	0	140
Lesser scaup	0	0	0	0	0	0	0	0
other divers	0	0	1	0	1	2	0	2
TOTAL DIVERS	4300	4100	283	14	6978	15675	60	15735
TOTAL DUCKS	241880	244544	95105	95701	139241	816471	29460	845931
PERCENTAGES	28.6	28.9	11.2	11.3	16.5		3.5	

other diver (CLS) is hooded merganser
other diver (BTS) is common goldeneye

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 12/2/2013	Delevan 12/6/2013	Colusa 12/2/2013	Sutter 12/6/2013	Butte Sink 12/2/2013	SUB TOTALS	Llano Seco 12/6/2013	GRAND TOTALS
Coot	41460	33150	8198	2375	7006	92189	10	92199
Tundra Swan	0	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	1171	1171
White-fronted goose	9530	9560	5477	39521	1050	65138	16100	81238
White goose	72865	35800	17525	79400	16245	221835	1300	223135
Western Canada goose	110	60	0	0	0	170	740	910
Aleutian Canada goose	0	0	2	0	0	2	0	2
Cackling Canada goose	0	0	61	0	0	61	0	61
TOTAL GEESE	82505	45420	23065	118921	17295	287206	18140	305346
Mallard	18211	21394	4479	10514	370	54968	3050	58018
Pintail	184680	60210	15747	148100	188295	597032	24160	621192
Gadwall	33312	21058	6192	5982	5705	72249	1000	73249
Wigeon	6570	3950	5768	43150	92022	151460	11230	162690
Green-winged teal	33500	31350	6664	21210	8663	101387	4650	106037
Cinnamon teal	95	90	107	0	0	292	0	292
N. shoveler	27690	28292	14672	13317	8911	92882	4160	97042
Wood duck	0	0	19	0	0	19	0	19
other dabblers	0	0	0	0	0	0	0	0
TOTAL DABLERS	304058	166344	53648	242273	303966	1070289	48250	1118539
Ring-necked duck	4400	750	567	0	4800	10517	0	10517
Ruddy duck	1550	1610	6	10	1240	4416	0	4416
Bufflehead	240	140	43	6	0	429	31	460
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	6190	2500	616	16	6040	15362	31	15393
TOTAL DUCKS	310248	168844	54264	242289	310006	1085651	48281	1133932
PERCENTAGES	27.4	14.9	4.8	21.4	27.3		4.3	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 12/16/2013	Delevan 12/17/2013	Colusa 12/16/2013	Sutter 12/17/2013	Butte Sink 12/17/2013	SUB TOTALS	Llano Seco 12/18/2013	GRAND TOTALS
Coot	37810	28500	7055	2650	7641	83656	150	83806
Tundra Swan	0	0	0	0	0	0	0	0
Sandhill Crane	0	0	19	0	0	19	412	431
White-fronted goose	15297	16970	13708	24345	995	71315	16500	87815
White goose	54360	46730	31816	131800	7680	272386	0	272386
Western Canada goose	22	43	0	0	0	65	182	247
Aleutian Canada goose	0	0	0	0	0	0	0	0
Cackling Canada goose	0	0	167	0	0	167	5	172
TOTAL GEESE	69679	63743	45691	156145	8675	343933	16687	360620
Mallard	9036	8942	2979	7102	1770	29829	4660	34489
Pintail	39085	87070	12461	134490	66616	339722	36650	376372
Gadwall	22786	18060	5842	7495	4965	59148	1620	60768
Wigeon	574	2220	5768	89502	44500	142564	18950	161514
Green-winged teal	24780	55890	6451	13790	20533	121444	8600	130044
Cinnamon teal	124	40	10	0	0	174	4	178
N. shoveler	19820	16560	10205	21704	4438	72727	6500	79227
Wood duck	0	0	6	0	0	6	0	6
other dabblers	0	0	0	0	0	0	0	0
TOTAL DABLERS	116205	188782	43722	274083	142822	765614	76984	842598
Ring-necked duck	1920	2520	1240	10	300	5990	0	5990
Ruddy duck	2660	4350	26	0	900	7936	0	7936
Bufflehead	245	130	85	17	8	485	49	534
Redhead	0	0	0	0	0	0	0	0
Canvasback	10	0	3	0	0	13	0	13
Lesser scaup	0	0	0	0	0	0	0	0
other divers ¹	94	0	0	0	0	94	0	94
TOTAL DIVERS	4929	7000	1354	27	1208	14518	49	14567
TOTAL DUCKS	121134	195782	45076	274110	144030	780132	77033	857165
PERCENTAGES	14.1	22.8	5.3	32.0	16.8		9.0	

¹ Other divers at Sacramento NWR = 90 common mergansers and 4 hooded mergansers.

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 1/6/2014	Delevan 1/9/2014	Colusa 1/9/2014	Sutter 1/10/2014	Butte Sink 1/6/2014	SUB TOTALS	Llano Seco 1/7/2014	GRAND TOTALS
Coot	43960	34050	7956	3810	1943	91719	800	92519
Tundra Swan	0	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	750	750
White-fronted goose	26020	15050	15558	12290	1262	70180	4400	74580
White goose	60430	53180	48861	37600	4035	204106	0	204106
Western Canada goose	20	12	0	0	4	36	145	181
Aleutian Canada goose	0	0	0	0	0	0	0	0
Cackling Canada goose	0	0	87	5	0	92	20	112
TOTAL GEESE	86470	68242	64506	49895	5301	274414	4565	278979
Mallard	16454	8590	3718	9450	1423	39635	5420	45055
Pintail	23950	73970	12655	99725	9085	219385	25045	244430
Gadwall	29550	19610	5716	5860	2885	63621	1510	65131
Wigeon	2990	6480	4211	20009	12865	46555	62490	109045
Green-winged teal	17850	46000	7577	7494	3882	82803	5120	87923
Cinnamon teal	250	10	2	2	0	264	0	264
N. shoveler	22420	25450	11206	11977	8353	79406	13325	92731
Wood duck	0	0	8	0	4	12	0	12
other dabblers	0	0	0	0	0	0	0	0
TOTAL DABLERS	113464	180110	45093	154517	38497	531681	112910	644591
Ring-necked duck	2490	2000	727	1005	5100	11322	0	11322
Ruddy duck	2530	2310	38	15	1751	6644	0	6644
Bufflehead	185	80	14	25	4	308	54	362
Redhead	0	0	0	0	0	0	0	0
Canvasback	0	0	0	0	0	0	0	0
Lesser scaup	0	0	0	1	0	1	0	1
other divers ¹	0	8	3	0	0	11	0	11
TOTAL DIVERS	5205	4398	782	1046	6855	18286	54	18340
TOTAL DUCKS	118669	184508	45875	155563	45352	549967	112964	662931
PERCENTAGES	17.9	27.8	6.9	23.5	6.8		17.0	

¹ = Hooded mergansers

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 1/24/2014	Delevan 1/23/2014	Colusa 1/21/2014	Sutter 1/21/2014	Butte Sink 1/23/2014	SUB TOTALS	Llano Seco 1/21/2014	GRAND TOTALS
Coot	49530	32950	8012	4930	2237	97659	680	98339
Tundra Swan	0	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	880	880
White-fronted goose	48740	13760	14662	16965	515	94642	11104	105746
White goose	65100	27000	29771	91305	400	213576	0	213576
Western Canada goose	37	0	2	0	46	85	166	251
Aleutian Canada goose	0	0	0	0	0	0	0	0
Cackling Canada goose	35	0	86	3	0	124	0	124
TOTAL GEESE	113912	40760	44521	108273	961	308427	11270	319697
Mallard	17710	10100	2907	9060	1348	41125	3060	44185
Pintail	37980	54560	11392	83325	10778	198035	32200	230235
Gadwall	38330	20290	6051	7067	4615	76353	2730	79083
Wigeon	4370	3320	3534	30912	4878	47014	38415	85429
Green-winged teal	39140	30300	9805	8230	1755	89230	7620	96850
Cinnamon teal	220	100	4	2	0	326	0	326
N. shoveler	30132	26180	12935	23275	8193	100715	7680	108395
Wood duck	0	0	8	0	0	8	0	8
other dabblers	0	0	0	0	0	0	0	0
TOTAL DABLERS	167882	144850	46636	161871	31567	552806	91705	644511
Ring-necked duck	3370	1750	1020	3021	12000	21161	0	21161
Ruddy duck	1650	2250	75	80	1160	5215	0	5215
Bufflehead	380	180	48	6	24	638	10	648
Redhead	0	0	0	0	0	0	0	0
Canvasback	0	0	0	0	0	0	0	0
Lesser scaup	0	0	0	2	0	2	0	2
other divers	0	0	0	0	0	0	0	0
TOTAL DIVERS	5400	4180	1143	3109	13184	27016	10	27026
TOTAL DUCKS	173282	149030	47779	164980	44751	579822	91715	671537
PERCENTAGES	25.8	22.2	7.1	24.6	6.7		13.7	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 2/3/2014	Delevan 2/6/2014	Colusa 2/5/2014	Sutter 2/5/2014	Butte Sink 2/5/2014	SUB TOTALS	Llano Seco 2/6/2014	GRAND TOTALS
Coot	42230	26950	7454	8905	3050	88589	2400	90989
Tundra Swan	0	0	0	0	0	0	0	0
Sandhill Crane	0	0	7	0	0	7	24	31
White-fronted goose	46672	470	8556	10320	400	66418	4500	70918
White goose	81580	0	27186	25005	111	133882	0	133882
Western Canada goose	4	12	0	7	24	47	8	55
Aleutian Canada goose	0	0	0	0	0	0	0	0
Cackling Canada goose	12	0	100	0	0	112	0	112
TOTAL GEESE	128268	482	35842	35332	535	200459	4508	204967
Mallard	12830	5610	2600	7925	880	29845	1245	31090
Pintail	18350	17170	13494	25015	7172	81201	8525	89726
Gadwall	29900	18500	5020	3495	3040	59955	320	60275
Wigeon	2490	2470	5063	1447	1930	13400	8685	22085
Green-winged teal	15210	11600	6367	6345	278	39800	5275	45075
Cinnamon teal	70	170	6	0	0	246	0	246
N. shoveler	34930	32410	12070	9700	2944	92054	10050	102104
Wood duck	0	0	2	10	0	12	0	12
other dabblers	0	0	0	0	0	0	0	0
TOTAL DABLERS	113780	87930	44622	53937	16244	316513	34100	350613
Ring-necked duck	3920	4030	1500	4245	4000	17695	2000	19695
Ruddy duck	1550	1380	59	85	3360	6434	0	6434
Bufflehead	480	380	30	18	27	935	20	955
Redhead	0	0	0	0	0	0	0	0
Canvasback	50	0	0	0	0	50	0	50
Lesser scaup	0	0	0	2	0	2	0	2
other divers	0	0	0	1	0	1	0	1
TOTAL DIVERS	6000	5790	1589	4351	7387	25117	2020	27137
TOTAL DUCKS	119780	93720	46211	58288	23631	341630	36120	377750
PERCENTAGES	31.7	24.8	12.2	15.4	6.3		9.6	

Other divers at Sutter NWR = c. goldeneye

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 2/18/2014	Delevan 2/18/2014	Colusa 2/18/2014	Sutter 2/21/2014	Butte Sink	SUB TOTALS	Llano Seco 2/20/2014	GRAND TOTALS
Coot	36040	22700	6508	8920	n	74168	1580	75748
Tundra Swan	0	0	0	0	o	0	0	0
Sandhill Crane	0	0	0	0	s	0	1594	1594
White-fronted goose	25490	27387	8402	13730	u	75009	12210	87219
White goose	59950	120120	20754	11030	r	211854	12200	224054
Western Canada goose	43	32	6	3	v	84	77	161
Aleutian Canada goose	0	0	0	0	e	0	0	0
Cackling Canada goose	0	0	119	0	y	119	0	119
TOTAL GEESE	85483	147539	29281	24763		287066	24487	311553
Mallard	7856	13040	1658	12445	d	34999	600	35599
Pintail	8460	63790	11103	29370	u	112723	9090	121813
Gadwall	27386	30895	5703	2850	e	66834	2192	69026
Wigeon	3630	4195	2872	405	t	11102	5030	16132
Green-winged teal	16020	16070	4927	8855	o	45872	5910	51782
Cinnamon teal	84	2	16	5	f	107	56	163
N. shoveler	35560	84670	9044	10885	l	140159	7210	147369
Wood duck	0	0	6	0	o	6		6
other dabblers	0	0	0	0	d	0	0	0
TOTAL DABLERS	98996	212662	35329	64815		411802	30088	441890
Ring-necked duck	2415	2350	783	2630	i	8178	860	9038
Ruddy duck	2550	346	4	70	n	2970	27	2997
Bufflehead	480	105	36	17	g	638	27	665
Redhead	0	0	0	0		0	0	0
Canvasback	50	0	0	0		50	0	50
Lesser scaup	10	0	0	0		10	0	10
other divers ¹	0	0	0	5		5	0	5
TOTAL DIVERS	5505	2801	823	2722		11851	914	12765
TOTAL DUCKS	104501	215463	36152	67537		423653	31002	454655
PERCENTAGES	23.0	47.4	8.0	14.9			6.8	

¹ Other divers at Sutter NWR were hooded mergansers.