

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 9/3/2008	Delevan 9/4/2008	Colusa 9/3/2008	Sutter 9/4/2008	Butte Sink 9/4/2008	Llano Seco 9/4/2008	GRAND TOTALS
Coot	2410	1600	22	0	0	0	4032
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	107	0	0	2	0	0	109
Tule W-F goose	0	0	0	0	0	0	0
White goose	0	0	0	0	0	0	0
Western Canada goose	175	320	22	0	0	0	517
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	282	320	22	2	0	0	626
Mallard	12400	8060	1064	185	3000	0	24709
Pintail	47550	22020	785	167	7875	0	78397
Gadwall	3020	1720	257	0	0	0	4997
Wigeon	780	370	53	0	375	0	1578
Green-winged teal	20700	6100	17	0	1500	0	28317
Cinnamon teal	870	420	5	5	100	0	1400
N. shoveler	6220	2330	140	0	2250	0	10940
Wood duck	120	400	10	0	0	0	530
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	91660	41420	2331	357	15100	0	150868
Ring-necked duck	0	0	0	0	0	0	0
Ruddy duck	40	0	0	0	0	0	40
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	91700	41420	2331	357	15100	0	150908
PERCENTAGES	60.8	27.4	1.5	0.2	10.0	0.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 9/16/2008	Delevan 9/17/2008	Colusa 9/15/2008	Sutter 9/15/2008	Butte Sink 9/16/2008	Llano Seco 9/18/2008	GRAND TOTALS
Coot	2880	3380	115	195	2300	0	8870
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	0	0
White-fronted goose	124	209	0	0	0	0	333
Tule W-F goose	0	0	10	0	0	0	10
White goose	3	0	0	0	0	0	3
Western Canada goose	113	127	0	0	0	0	240
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	240	336	10	0	0	0	586
Mallard	12940	10802	3214	3265	460	0	30681
Pintail	97270	31925	14493	5810	3040	0	152538
Gadwall	4700	1405	701	217	0	0	7023
Wigeon	990	2145	1323	590	4220	0	9268
Green-winged teal	10649	3960	2235	50	940	0	17834
Cinnamon teal	102	165	6	20	0	0	293
N. shoveler	7425	2980	2088	320	2425	0	15238
Wood duck	0	340	10	254	0	0	604
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	134076	53722	24070	10526	11085	0	233479
Ring-necked duck	1300	0	0	0	350	0	1650
Ruddy duck	13	0	0	0	175	0	188
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	1313	0	0	0	525	0	1838
TOTAL DUCKS	135389	53722	24070	10526	11610	0	235317
PERCENTAGES	57.5	22.8	10.2	4.5	4.9	0.0	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 10/6/2008	Delevan 10/8/2008	Colusa 10/7/2008	Sutter 10/2/2008	Butte Sink 10/2/2008	Llano Seco 10/9/2008	GRAND TOTALS
Coot	11850	9550	1276	580	2500	200	25956
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	13	14	0	5	247	279
White-fronted goose	100450	134260	15850	2110	20	190	252880
Tule W-F goose	0	0	0	0	0	0	0
White goose	220	336	0	0	0	0	556
Western Canada goose	350	30	0	0	0	226	606
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	20	3	0	0	0	23
Undiff. Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	101020	134646	15853	2110	20	416	254065
Mallard	22680	12400	2151	3245	1030	1012	42518
Pintail	304550	143900	10836	5595	1795	8660	475336
Gadwall	19950	15420	2226	373	800	196	38965
Wigeon	19720	9250	4956	490	1350	0	35766
Green-winged teal	48060	51560	1019	85	3985	230	104939
Cinnamon teal	860	760	2	0	0	12	1634
N. shoveler	24740	18850	2817	535	4240	0	51182
Wood duck	402	170	13	50	0	0	635
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	440962	252310	24020	10373	13200	10110	750975
Ring-necked duck	1950	900	68	0	4000	0	6918
Ruddy duck	420	0	8	0	400	0	828
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	2370	900	76	0	4400	0	7746
TOTAL DUCKS	443332	253210	24096	10373	17600	10110	758721
PERCENTAGES	58.4	33.4	3.2	1.4	2.3	1.3	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 10/20/2008	Delevan 10/21/2008	Colusa 10/21/2008	Sutter 10/20/2008	Butte Sink 10/20/2008	Llano Seco 10/23/2008	GRAND TOTALS
Coot	26260	13350	2352	1860	4300	20	48142
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	188	29	0	19	634	870
White-fronted goose	176355	160000	12203	46363	13800	500	409221
Tule W-F goose	0	0	0	0	0	0	0
White goose	9540	6670	74	0	0	0	16284
Western Canada goose	150	0	0	0	0	341	491
Aleutian Canada goose	0	0	0	0	3800	0	3800
Cackling Canada goose	0	0	2	1	0	0	3
TOTAL GEESE	186045	166670	12279	46364	17600	841	429799
Mallard	14790	11310	4829	6725	4520	2540	44714
Pintail	483330	209270	16420	5390	217810	30460	962680
Gadwall	41350	19820	4021	1580	31120	735	98626
Wigeon	69560	31100	12024	4455	160350	6075	283564
Green-winged teal	91100	56200	2902	630	29450	240	180522
Cinnamon teal	322	190	0	90	0	0	602
N. shoveler	31950	22240	6689	1090	20850	835	83654
Wood duck	40	0	5	60	0	0	105
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	732442	350130	46890	20020	464100	40885	1654467
Ring-necked duck	18410	1800	1895	0	10000	2	32107
Ruddy duck	800	100	0	0	1000	0	1900
Bufflehead	0	0	2	1	0	2	5
Redhead	0	0	0	0	20	0	20
Canvasback	70	0	100	0	50	0	220
Lesser scaup	0	0	0	0	0	0	0
other divers	0	2	0	0	0	0	2
TOTAL DIVERS	19280	1902	1997	1	11070	4	34254
TOTAL DUCKS	751722	352032	48887	20021	475170	40889	1688721
PERCENTAGES	44.5	20.8	2.9	1.2	28.1	2.4	

Other diver at Delevan NWR = Hooded merganser

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 11/4/2008	Delevan 11/6/2008	Colusa 11/7/2008	Sutter 11/6/2008	Butte Sink 11/6/2008	Llano Seco 11/4/2008	GRAND TOTALS
Coot	26490	18480	4582	2195	2420	130	54297
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	44	0	0	4	48
White-fronted goose	50620	25900	16125	34940	15520	0	143105
Tule W-F goose	0	0	0	0	0	0	0
White goose	44500	27850	11445	1500	8400	0	93695
Western Canada goose	12	30	0	0	0	356	398
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	0	0	0	10	0	0	10
Undiff. Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	95132	53780	27570	36450	23920	356	237208
Mallard	20352	19500	6166	11372	3100	3930	64420
Pintail	405610	189100	23270	38735	184785	98970	940470
Gadwall	31972	26655	7772	1490	17650	4330	89869
Wigeon	55350	50000	16719	5045	79675	57030	263819
Green-winged teal	45480	69040	8256	1520	9050	900	134246
Cinnamon teal	120	260	30	0	0	0	410
N. shoveler	34055	22655	14532	2710	8250	4070	86272
Wood duck	0	0	8	60	10	10	88
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	592939	377210	76753	60932	302520	169240	1579594
Ring-necked duck	3100	8500	550	21	300	10	12481
Ruddy duck	3700	600	2	10	500	0	4812
Bufflehead	0	0	4	7	10	4	25
Redhead	0	0	0	0	0	0	0
Canvasback	40	0	0	0	100	0	140
Lesser scaup	0	0	0	0	0	0	0
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	6840	9100	556	38	910	14	17458
TOTAL DUCKS	599779	386310	77309	60970	303430	169254	1597052
PERCENTAGES	37.6	24.2	4.8	3.8	19.0	10.6	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento		Colusa		Butte		Llano		GRAND TOTALS
	11/18/2008	Delevan 11/17/2008	11/18/2008	Sutter 11/18/2008	Sink 11/18/2008	Seco 11/17/2008			
Coot	39105	24830	5598	2752	3050	530		75865	
Tundra Swan	0	0	0	0	0	0		0	
Sandhill Crane	0	12	54	0	0	17		83	
White-fronted goose	34365	31880	13360	46750	6200	110		132665	
Tule W-F goose	0	0	0	0	0	0		0	
White goose	97470	74430	33990	34420	17000	0		257310	
Western Canada goose	215	210	0	0	0	254		679	
Aleutian Canada goose	0	0	0	0	0	0		0	
Cackling Canada goose	200	0	5	0	150	0		355	
Undiff. Canada goose	0	0	0	0	0	0		0	
TOTAL GEESE	132250	106520	47355	81170	23350	364		391009	
Mallard	23634	14169	5289	14049	3540	4430		65111	
Pintail	424590	128330	21547	38450	207150	82140		902207	
Gadwall	37490	23595	9162	3147	13680	950		88024	
Wigeon	34890	26330	18449	17250	109950	16350		223219	
Green-winged teal	24600	40800	8934	1077	6400	945		82756	
Cinnamon teal	410	600	36	88	0	0		1134	
N. shoveler	34090	17050	18430	2555	8050	2910		83085	
Wood duck	0	0	26	100	0	0		126	
other dabblers	0	0	0	0	0	0		0	
TOTAL DABLERS	579704	250874	81873	76716	348770	107725		1445662	
Ring-necked duck	16160	5000	1374	182	0	0		22716	
Ruddy duck	2850	780	151	6	1000	0		4787	
Bufflehead	20	30	4	3	0	60		117	
Redhead	0	0	0	0	0	0		0	
Canvasback	60	0	0	2	0	0		62	
Lesser scaup	0	0	0	5	1	0		6	
other divers ¹	0	0	0	1	0	0		1	
TOTAL DIVERS	19090	5810	1529	199	1001	60		27689	
TOTAL DUCKS	598794	256684	83402	76915	349771	107785		1473351	
PERCENTAGES	40.6	17.4	5.7	5.2	23.7	7.3			

¹ Other divers at Sutter NWR = hooded merganser

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 12/1/2008	Delevan 12/2/2008	Colusa 12/2/2008	Sutter	Butte Sink	Llano Seco 12/3/2008	GRAND TOTALS
Coot	28750	21080	4552			440	54822
Tundra Swan	0	0	0			24	24
Sandhill Crane	0	0	0			18	18
White-fronted goose	9258	2760	4080			1822	17920
Tule W-F goose	0	0	0			0	0
White goose	57400	12080	15989	N	N	0	85469
Western Canada goose	10	128	0	O	O	140	278
Aleutian Canada goose	0	0	0	T	T	0	0
Cackling Canada goose	220	0	6			0	226
Undiff. Canada goose	0	0	0			0	0
TOTAL GEESE	66888	14968	20075	0	0	1962	103893
Mallard	21932	16845	7258	S	S	4190	50225
Pintail	83445	40730	14553	U	U	33740	172468
Gadwall	27521	23838	8835	R	R	975	61169
Wigeon	11986	12614	11735	V	V	10220	46555
Green-winged teal	24780	60700	9975	E	E	3280	98735
Cinnamon teal	460	560	18	Y	Y	0	1038
N. shoveler	24513	24147	11907	E	E	4500	65067
Wood duck	0	0	55	D	D	0	55
other dabblers	0	0	0			0	0
TOTAL DABLERS	194637	179434	64336	0	0	56905	495312
Ring-necked duck	4330	6102	2320			60	12812
Ruddy duck	2150	2450	700			0	5300
Bufflehead	154	0	60	F	F	85	299
Redhead	0	0	0	O	O	0	0
Canvasback	0	60	0	G	G	0	60
Lesser scaup	0	0	0			0	0
other divers	0	0	0			0	0
TOTAL DIVERS	6634	8612	3080	0	0	145	18471
TOTAL DUCKS	201271	188046	67416	0	0	57050	513783
PERCENTAGES	39.2	36.6	13.1	0.0	0.0	11.1	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 12/15/2008	Delevan 12/16/2008	Colusa 12/16/2008	Sutter 12/18/2008	Butte Sink 12/18/2008	Llano Seco 12/17/2008	GRAND TOTALS
Coot	31440	21390	5014	6042	9450	1320	74656
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	420	420
White-fronted goose	15292	4930	3576	29335	2800	23100	79033
Tule W-F goose	0	0	0	0	0	0	0
White goose	69580	4100	21905	35305	200	0	131090
Western Canada goose	53	34	0	0	0	46	133
Aleutian Canada goose	0	0	0	0	0	0	0
Cackling Canada goose	170	0	10	0	0	0	180
Undiff. Canada goose	0	0	0	0	0	0	0
TOTAL GEESE	85095	9064	25491	64640	3000	23146	210436
Mallard	17703	11830	7200	16516	2220	2830	58299
Pintail	73860	13500	18625	118755	105470	87275	417485
Gadwall	25352	16634	7755	5912	10750	3845	70248
Wigeon	4410	4520	11001	46577	74430	77175	218113
Green-winged teal	48530	62780	8575	15011	9900	10210	155006
Cinnamon teal	125	190	12	0	0	0	327
N. shoveler	26778	27972	11047	12787	11650	32045	122279
Wood duck	0	0	16	80	0	0	96
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	196758	137426	64231	215638	214420	213380	1041853
Ring-necked duck	6040	8720	2410	50	0	1050	18270
Ruddy duck	3900	2300	370	1	600	0	7171
Bufflehead	170	220	28	87	100	178	783
Redhead	0	0	0	0	0	0	0
Canvasback	0	0	0	0	0	0	0
Lesser scaup	0	0	0	0	10	0	10
other divers	0	0	0	0	0	0	0
TOTAL DIVERS	10110	11240	2808	138	710	1228	26234
TOTAL DUCKS	206868	148666	67039	215776	215130	214608	1068087
PERCENTAGES	19.4	13.9	6.3	20.2	20.1	20.1	

Sacramento NWR Complex Waterfowl Survey Summary

Refuge Date	Sacramento 1/7/2009	Delevan 1/10/2009	Colusa 1/6/2009	Sutter 1/6/2009	Butte Sink 1/10/2009	Llano Seco ¹ 1/6/2009	GRAND TOTALS
Coot	22140	17734	6990	2760	4000	4025	57649
Tundra Swan	0	0	0	0	0	0	0
Sandhill Crane	0	0	0	0	0	595	595
White-fronted goose	9060	20050	35415	24395	3000	10575	102495
Tule W-F goose	0	0	0	0	0	0	0
White goose	71700	58400	160000	15240	550	0	305890
Western Canada goose	50	1610	0	0	0	685	2345
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	80810	80060	195415	39635	3550	11260	410730
Mallard	12405	10115	5400	8970	2000	21125	60015
Pintail	36380	21860	47575	88400	29000	29160	252375
Gadwall	12265	7560	10060	3620	8000	2226	43731
Wigeon	3065	15000	14210	19320	29000	21187	101782
Green-winged teal	11940	15595	23400	6700	4000	3560	65195
Cinnamon teal	0	60	285	150	0	0	495
N. shoveler	21242	15870	24375	18525	8000	9683	97695
Wood duck	0	20	0	0	0	50	70
other dabblers	0	0	0	0	0	0	0
TOTAL DABLERS	97297	86080	125305	145685	80000	86991	621358
Ring-necked duck	1950	750	850	800	0	0	4350
Ruddy duck	1800	650	725	50	500	0	3725
Bufflehead	102	45	225	70	0	10	452
Redhead	0	0	0	0	0	0	0
Canvasback	210	0	10	25	0	0	245
Lesser scaup	0	0	0	0	0	10	10
other divers ²	0	0	0	2	0	0	2
TOTAL DIVERS	4062	1445	1810	947	500	20	8784
TOTAL DUCKS	101359	87525	127115	146632	80500	87011	630142
PERCENTAGES	16.1	13.9	20.2	23.3	12.8	13.8	

¹ Waterfowl numbers include Federal, State and private lands.

² Other divers = Goldeneye