

Sacramento NWR Complex Waterfowl Survey Summary

| Refuge Date | Sacramento 9/2/2010 | Delevan 9/7/2010 | Colusa 9/2/2010 | Sutter 9/2/2010 (Mostly dry) | Butte Sink 9/2/2010 (Dry) | Llano Seco 9/2/2010 (Dry) | GRAND TOTALS |
|----------------------|------------------------|---------------------|--------------------|------------------------------------|------------------------------------|------------------------------------|-----------------|
| Coot | 400 | 300 | 22 | 0 | 0 | 0 | 722 |
| 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 |
| Tule W-F goose | 252 | 310 | 0 | 0 | 0 | 0 | 562 |
| White goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Western Canada goose | 380 | 82 | 0 | 0 | 0 | 0 | 462 |
| Aleutian goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cackling goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Undiff. Canada goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL GEESE | 632 | 392 | 0 | 0 | 0 | 0 | 1024 |
| Mallard | 13320 | 8450 | 161 | 22 | 0 | 0 | 21953 |
| Pintail | 75600 | 35000 | 3410 | 0 | 0 | 0 | 114010 |
| Gadwall | 3910 | 1480 | 10 | 2 | 0 | 0 | 5402 |
| Wigeon | 0 | 320 | 0 | 0 | 0 | 0 | 320 |
| Green-winged teal | 11650 | 7300 | 40 | 0 | 0 | 0 | 18990 |
| Cinnamon teal | 480 | 90 | 43 | 0 | 0 | 0 | 613 |
| N. shoveler | 4630 | 2250 | 44 | 0 | 0 | 0 | 6924 |
| Wood duck | 180 | 270 | 0 | 0 | 0 | 0 | 450 |
| other dabblers | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL DABLERS | 109770 | 55160 | 3708 | 24 | 0 | 0 | 168662 |
| 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 | 109770 | 55160 | 3708 | 24 | 0 | 0 | 168662 |
| PERCENTAGES | 65.1 | 32.7 | 2.2 | 0.0 | 0.0 | 0.0 | |

Sacramento NWR Complex Waterfowl Survey Summary

| Refuge Date | Sacramento 9/15/2010 | Delevan 9/16/2010 | Colusa 9/15/2010 | Sutter 9/15/2010 | Butte Sink 9/15/2010 | Llano Seco 9/16/2010 (Dry) | GRAND TOTALS |
|----------------------|-------------------------|----------------------|---------------------|---------------------|----------------------------|-------------------------------------|-----------------|
| Coot | 1,700 | 1,320 | 15 | 120 | 0 | 0 | 3,155 |
| Tundra Swan | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandhill Crane | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| White-fronted goose | 1,078 | 391 | 120 | 0 | 0 | 0 | 1,589 |
| Tule W-F goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| White goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Western Canada goose | 389 | 140 | 0 | 6 | 0 | 0 | 535 |
| Aleutian goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cackling goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Undiff. Canada goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL GEESE | 1,467 | 531 | 120 | 6 | 0 | 0 | 2,124 |
| Mallard | 19,940 | 9,720 | 1,058 | 3,110 | 220 | 0 | 34,048 |
| Pintail | 164,860 | 60,250 | 19,216 | 19,895 | 4,980 | 0 | 269,201 |
| Gadwall | 7,320 | 3,400 | 310 | 95 | 20 | 0 | 11,145 |
| Wigeon | 1,360 | 1,250 | 22 | 165 | 0 | 0 | 2,797 |
| Green-winged teal | 30,900 | 25,300 | 650 | 50 | 82 | 0 | 56,982 |
| Cinnamon teal | 440 | 420 | 4 | 195 | 0 | 0 | 1,059 |
| N. shoveler | 9,460 | 6,250 | 215 | 220 | 2 | 0 | 16,147 |
| Wood duck | 290 | 270 | 0 | 0 | 1 | 0 | 561 |
| other dabblers | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL DABLERS | 234,570 | 106,860 | 21,475 | 23,730 | 5,305 | 0 | 391,940 |
| Ring-necked duck | 100 | 0 | 0 | 10 | 0 | 0 | 110 |
| 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 | 100 | 0 | 0 | 10 | 0 | 0 | 110 |
| TOTAL DUCKS | 234,670 | 106,860 | 21,475 | 23,740 | 5,305 | 0 | 392,050 |
| PERCENTAGES | 59.9 | 27.3 | 5.5 | 6.1 | 1.4 | 0.0 | |

Sacramento NWR Complex Waterfowl Survey Summary

| Refuge Date | Sacramento 10/4/2010 | Delevan 10/7/2010 | Colusa 9/30/2010 | Sutter 10/1/2010 | Butte Sink 9/30/2010 | Llano Seco 10/7/2010 | GRAND TOTALS |
|----------------------|-------------------------|----------------------|---------------------|---------------------|----------------------------|----------------------------|-----------------|
| Coot | 12,200 | 7,480 | 362 | 680 | 1,070 | 0 | 21,792 |
| Tundra Swan | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandhill Crane | 0 | 161 | 41 | 0 | 25 | 1,066 | 1,293 |
| White-fronted goose | 141,590 | 191,380 | 14,523 | 21,104 | 640 | 140 | 369,377 |
| Tule W-F goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| White goose | 0 | 100 | 0 | 1 | 0 | 0 | 101 |
| Western Canada goose | 218 | 12 | 0 | 0 | 0 | 412 | 642 |
| Aleutian goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cackling goose | 180 | 40 | 0 | 0 | 0 | 0 | 220 |
| Undiff. Canada goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL GEESE | 141,988 | 191,532 | 14,523 | 21,105 | 640 | 552 | 370,340 |
| Mallard | 23,030 | 12,330 | 2,476 | 8,680 | 450 | 2,840 | 49,806 |
| Pintail | 138,500 | 84,200 | 22,089 | 48,385 | 4,520 | 5,650 | 303,344 |
| Gadwall | 17,720 | 14,480 | 1,568 | 615 | 332 | 825 | 35,540 |
| Wigeon | 10,050 | 6,460 | 3,255 | 3,120 | 842 | 2,050 | 25,777 |
| Green-winged teal | 44,530 | 42,410 | 932 | 120 | 302 | 295 | 88,589 |
| Cinnamon teal | 620 | 280 | 12 | 20 | 0 | 0 | 932 |
| N. shoveler | 18,510 | 16,850 | 2,402 | 1,470 | 1,102 | 760 | 41,094 |
| Wood duck | 120 | 410 | 24 | 170 | 10 | 0 | 734 |
| other dabblers | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL DABLERS | 253,080 | 177,420 | 32,758 | 62,580 | 7,558 | 12,420 | 545,816 |
| Ring-necked duck | 5,650 | 4,150 | 51 | 100 | 2,990 | 0 | 12,941 |
| Ruddy duck | 100 | 0 | 2 | 0 | 40 | 0 | 142 |
| 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 | 5,750 | 4,150 | 53 | 100 | 3,030 | 0 | 13,083 |
| TOTAL DUCKS | 258,830 | 181,570 | 32,811 | 62,680 | 10,588 | 12,420 | 558,899 |
| PERCENTAGES | 46.3 | 32.5 | 5.9 | 11.2 | 1.9 | 2.2 | |

Sacramento NWR Complex Waterfowl Survey Summary

| Refuge Date | Sacramento 10/18/2010 | Delevan 10/19/2010 | Colusa 10/19/2010 | Sutter 10/19/2010 | Butte Sink 10/21/2010 | Llano Seco 10/21/2010 | GRAND TOTALS |
|----------------------|--------------------------|-----------------------|----------------------|----------------------|-----------------------------|-----------------------------|-----------------|
| Coot | 26,680 | 13,000 | 2,937 | 2,110 | 4,575 | 2 | 49,304 |
| Tundra Swan | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandhill Crane | 0 | 226 | 122 | 0 | 93 | 335 | 776 |
| White-fronted goose | 181,110 | 161,960 | 20,610 | 21,510 | 6,140 | 150 | 391,480 |
| Tule W-F goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| White goose | 8,680 | 1,400 | 55 | 21 | 0 | 0 | 10,156 |
| Western Canada goose | 242 | 30 | 9 | 7 | 0 | 460 | 748 |
| Aleutian goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cackling goose | 160 | 0 | 5 | 0 | 0 | 0 | 165 |
| Undiff. Canada goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL GEESE | 190,192 | 163,390 | 20,679 | 21,538 | 6,140 | 610 | 402,549 |
| Mallard | 24,650 | 14,570 | 3,977 | 7,810 | 645 | 2,565 | 54,217 |
| Pintail | 216,880 | 70,260 | 27,095 | 22,470 | 61,495 | 4,570 | 402,770 |
| Gadwall | 32,370 | 24,340 | 6,875 | 2,365 | 4,975 | 3,645 | 74,570 |
| Wigeon | 20,340 | 13,220 | 9,883 | 4,655 | 15,625 | 1,990 | 65,713 |
| Green-winged teal | 55,950 | 55,100 | 5,471 | 2,125 | 3,815 | 1,730 | 124,191 |
| Cinnamon teal | 450 | 260 | 2 | 20 | 2 | 0 | 734 |
| N. shoveler | 38,530 | 27,030 | 6,556 | 3,305 | 7,515 | 1,570 | 84,506 |
| Wood duck | 50 | 190 | 14 | 260 | 8 | 10 | 532 |
| other dabblers | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL DABLERS | 389,220 | 204,970 | 59,873 | 43,010 | 94,080 | 16,080 | 807,233 |
| Ring-necked duck | 11,180 | 4,500 | 580 | 860 | 1,400 | 0 | 18,520 |
| Ruddy duck | 550 | 0 | 0 | 0 | 100 | 0 | 650 |
| Bufflehead | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Redhead | 10 | 0 | 0 | 0 | 0 | 0 | 10 |
| Canvasback | 20 | 0 | 0 | 0 | 0 | 0 | 20 |
| Lesser scaup | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other divers | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL DIVERS | 11,760 | 4,500 | 580 | 860 | 1,500 | 0 | 19,200 |
| TOTAL DUCKS | 400,980 | 209,470 | 60,453 | 43,870 | 95,580 | 16,080 | 826,433 |
| PERCENTAGES | 48.5 | 25.3 | 7.3 | 5.3 | 11.6 | 1.9 | |

Sacramento NWR Complex Waterfowl Survey Summary

| Refuge Date | Sacramento 11/1/2010 | Delevan 11/5/2010 | Colusa 11/4/2010 | Sutter 11/4/2010 | Butte Sink 11/4/2010 | Llano Seco 11/4/2010 | GRAND TOTALS |
|----------------------|-------------------------|----------------------|---------------------|---------------------|----------------------------|----------------------------|------------------|
| Coot | 22,330 | 16,600 | 4,515 | 2,075 | 1,668 | 720 | 47,908 |
| Tundra Swan | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandhill Crane | 0 | 0 | 92 | 0 | 0 | 1,273 | 1,365 |
| White-fronted goose | 79,820 | 58,920 | 19,465 | 41,568 | 6,420 | 602 | 206,795 |
| Tule W-F goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| White goose | 28,150 | 14,900 | 400 | 173 | 0 | 0 | 43,623 |
| Western Canada goose | 70 | 120 | 0 | 0 | 0 | 492 | 682 |
| Aleutian goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cackling goose | 40 | 0 | 85 | 0 | 0 | 0 | 125 |
| Undiff. Canada goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL GEESE | 108,080 | 73,940 | 19,950 | 41,741 | 6,420 | 1,094 | 251,225 |
| Mallard | 18,500 | 16,262 | 6,327 | 7,160 | 520 | 5,510 | 54,279 |
| Pintail | 361,080 | 231,750 | 31,918 | 46,780 | 71,062 | 24,440 | 767,030 |
| Gadwall | 32,573 | 23,176 | 7,618 | 1,280 | 3,785 | 2,741 | 71,173 |
| Wigeon | 35,520 | 15,800 | 14,811 | 6,500 | 30,688 | 3,740 | 107,059 |
| Green-winged teal | 53,652 | 92,850 | 3,558 | 1,430 | 3,740 | 2,885 | 158,115 |
| Cinnamon teal | 230 | 52 | 38 | 52 | 2 | 8 | 382 |
| N. shoveler | 34,388 | 23,570 | 8,021 | 1,847 | 8,697 | 3,298 | 79,821 |
| Wood duck | 30 | 125 | 27 | 2 | 4 | 4 | 192 |
| other dabblers | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL DABLERS | 535,973 | 403,585 | 72,318 | 65,051 | 118,498 | 42,626 | 1,238,051 |
| Ring-necked duck | 12,750 | 3,300 | 1,924 | 55 | 1,100 | 0 | 19,129 |
| Ruddy duck | 850 | 80 | 0 | 0 | 710 | 0 | 1,640 |
| Bufflehead | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Redhead | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Canvasback | 80 | 0 | 0 | 0 | 0 | 0 | 80 |
| Lesser scaup | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other divers | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL DIVERS | 13,680 | 3,380 | 1,924 | 55 | 1,810 | 0 | 20,849 |
| TOTAL DUCKS | 549,653 | 406,965 | 74,242 | 65,106 | 120,308 | 42,626 | 1,258,900 |
| PERCENTAGES | 43.7 | 32.3 | 5.9 | 5.2 | 9.6 | 3.4 | |

Sacramento NWR Complex Waterfowl Survey Summary

| Refuge Date | Sacramento | | Delevan | | Colusa | | Sutter | | Butte | Llano | GRAND TOTALS |
|---------------------------|----------------|----------------|---------------|----------------|----------------|---------------|--------|------|-------|------------------|-----------------|
| | 11/15/2010 | 11/18/2010 | 11/15/2010 | 11/19/2010 | 11/15/2010 | 11/18/2010 | Sink | Seco | | | |
| Coot | 19,000 | 18,050 | 4,018 | 5,680 | 2,192 | 560 | | | | 49,500 | |
| Tundra Swan | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | |
| Sandhill Crane | 0 | 0 | 104 | 0 | 3 | 205 | | | | 312 | |
| White-fronted goose | 25,500 | 28,050 | 9,685 | 106,300 | 2,960 | 7,610 | | | | 180,105 | |
| Tule W-F goose | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | |
| White goose | 105,400 | 46,200 | 6,650 | 25,350 | 2,050 | 0 | | | | 185,650 | |
| Western Canada goose | 14 | 80 | 0 | 0 | 0 | 810 | | | | 904 | |
| Aleutian goose | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | |
| Cackling goose | 0 | 0 | 47 | 0 | 0 | 0 | | | | 47 | |
| Undiff. Canada goose | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | |
| TOTAL GEESE | 130,914 | 74,330 | 16,382 | 131,650 | 5,010 | 8,420 | | | | 366,706 | |
| Mallard | 17,220 | 17,085 | 4,654 | 15,440 | 725 | 3,830 | | | | 58,954 | |
| Pintail | 286,770 | 154,380 | 19,600 | 100,945 | 47,396 | 59,850 | | | | 668,941 | |
| Gadwall | 33,130 | 24,510 | 5,342 | 4,525 | 5,775 | 2,500 | | | | 75,782 | |
| Wigeon | 31,260 | 23,725 | 11,491 | 16,950 | 60,874 | 9,825 | | | | 154,125 | |
| Green-winged teal | 29,200 | 57,280 | 2,199 | 8,505 | 2,573 | 1,845 | | | | 101,602 | |
| Cinnamon teal | 110 | 100 | 42 | 0 | 0 | 0 | | | | 252 | |
| N. shoveler | 29,020 | 22,390 | 6,954 | 6,810 | 5,295 | 3,485 | | | | 73,954 | |
| Wood duck | 0 | 340 | 44 | 70 | 4 | 10 | | | | 468 | |
| other dabblers | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | |
| TOTAL DABLERS | 426,710 | 299,810 | 50,326 | 153,245 | 122,642 | 81,345 | | | | 1,134,078 | |
| Ring-necked duck | 10,880 | 1,600 | 1,550 | 110 | 6,000 | 140 | | | | 20,280 | |
| Ruddy duck | 1,200 | 600 | 0 | 0 | 220 | 0 | | | | 2,020 | |
| Bufflehead | 80 | 30 | 0 | 0 | 8 | 60 | | | | 178 | |
| Redhead | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | |
| Canvasback | 10 | 0 | 0 | 0 | 1 | 0 | | | | 11 | |
| Lesser scaup | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | |
| other divers ¹ | 0 | 0 | 0 | 2 | 0 | 0 | | | | 2 | |
| TOTAL DIVERS | 12,170 | 2,230 | 1,550 | 112 | 6,229 | 200 | | | | 22,491 | |
| TOTAL DUCKS | 438,880 | 302,040 | 51,876 | 153,357 | 128,871 | 81,545 | | | | 1,156,569 | |
| PERCENTAGES | 37.9 | 26.1 | 4.5 | 13.3 | 11.1 | 7.1 | | | | | |

¹ Other divers at Sutter NWR were common goldeneye.

Sacramento NWR Complex Waterfowl Survey Summary

| Refuge Date | Sacramento 12/2/2010 | Delevan 12/7/2010 | Colusa 12/3/2010 | Sutter 12/3/2010 | Butte Sink 11/30/2010 | Llano Seco 12/3/2010 | GRAND TOTALS |
|---------------------------|-------------------------|----------------------|---------------------|---------------------|-----------------------------|----------------------------|------------------|
| Coot | 32,410 | 20,150 | 7,485 | 7,350 | 7,328 | 1,960 | 76,683 |
| Tundra Swan | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandhill Crane | 0 | 0 | 74 | 0 | 0 | 31 | 105 |
| White-fronted goose | 26,750 | 24,450 | 6,345 | 22,330 | 865 | 126 | 80,866 |
| Tule W-F goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| White goose | 105,900 | 49,400 | 27,055 | 54,140 | 12,700 | 0 | 249,195 |
| Western Canada goose | 32 | 30 | 0 | 0 | 0 | 107 | 169 |
| Aleutian goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cackling goose | 400 | 0 | 40 | 10 | 0 | 0 | 450 |
| Undiff. Canada goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL GEESE | 133,082 | 73,880 | 33,440 | 76,480 | 13,565 | 233 | 330,680 |
| Mallard | 22,008 | 14,074 | 7,500 | 13,480 | 630 | 8,930 | 66,622 |
| Pintail | 331,550 | 70,290 | 28,062 | 60,095 | 98,040 | 46,100 | 634,137 |
| Gadwall | 40,120 | 25,298 | 9,737 | 5,952 | 9,523 | 3,869 | 94,499 |
| Wigeon | 24,170 | 15,250 | 21,585 | 17,745 | 74,638 | 33,450 | 186,838 |
| Green-winged teal | 69,150 | 78,300 | 13,963 | 19,635 | 7,175 | 2,910 | 191,133 |
| Cinnamon teal | 440 | 160 | 58 | 55 | 0 | 0 | 713 |
| N. shoveler | 32,680 | 16,020 | 11,996 | 6,250 | 6,753 | 10,130 | 83,829 |
| Wood duck | 100 | 20 | 30 | 5 | 0 | 0 | 155 |
| other dabblers | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL DABLERS | 520,218 | 219,412 | 92,931 | 123,217 | 196,759 | 105,389 | 1,257,926 |
| Ring-necked duck | 8,080 | 3,250 | 2,510 | 250 | 2,460 | 20 | 16,570 |
| Ruddy duck | 2,410 | 1,950 | 403 | 0 | 520 | 10 | 5,293 |
| Bufflehead | 90 | 360 | 43 | 15 | 23 | 92 | 623 |
| Redhead | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Canvasback | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Lesser scaup | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other divers ¹ | 11 | 0 | 0 | 1 | 1 | 4 | 17 |
| TOTAL DIVERS | 10,591 | 5,560 | 2,956 | 267 | 3,004 | 126 | 22,504 |
| TOTAL DUCKS | 530,809 | 224,972 | 95,887 | 123,484 | 199,763 | 105,515 | 1,280,430 |
| PERCENTAGES | 41.5 | 17.6 | 7.5 | 9.6 | 15.6 | 8.2 | |

¹ Other divers = hooded mergansers at Sac/Llano Seco NWR and c. goldeneye at Sutter/Butte Sink NWR.

Sacramento NWR Complex Waterfowl Survey Summary

| Refuge Date | Sacramento | | Delevan | | Colusa | | Sutter | | Butte | Llano | GRAND TOTALS |
|---------------------------|----------------|----------------|---------------|----------------|----------------|---------------|------------|------------|-------|----------------|-----------------|
| | 12/16/2010 | 12/20/2010 | 12/16/2010 | 12/17/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | 12/16/2010 | | | |
| Coot | 27,130 | 15,100 | 6,492 | 7,950 | 6,315 | 1,780 | | | | 64,767 | |
| Tundra Swan | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | |
| Sandhill Crane | 0 | 0 | 2 | 0 | 0 | 8 | | | | 10 | |
| White-fronted goose | 26,867 | 14,740 | 12,890 | 15,330 | 610 | 40 | | | | 70,477 | |
| Tule W-F goose | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | |
| White goose | 111,100 | 16,300 | 53,435 | 1,205 | 4,050 | 0 | | | | 186,090 | |
| Western Canada goose | 40 | 0 | 0 | 0 | 0 | 834 | | | | 874 | |
| Aleutian goose | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | |
| Cackling goose | 0 | 0 | 18 | 0 | 0 | 40 | | | | 58 | |
| Undiff. Canada goose | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | |
| TOTAL GEESE | 138,007 | 31,040 | 66,343 | 16,535 | 4,660 | 914 | | | | 257,499 | |
| Mallard | 22,815 | 13,584 | 5,636 | 20,370 | 130 | 3,832 | | | | 66,367 | |
| Pintail | 137,460 | 32,870 | 19,817 | 53,645 | 93,370 | 11,200 | | | | 348,362 | |
| Gadwall | 31,961 | 15,480 | 6,731 | 5,110 | 13,975 | 3,866 | | | | 77,123 | |
| Wigeon | 10,880 | 3,350 | 10,966 | 20,480 | 36,225 | 12,140 | | | | 94,041 | |
| Green-winged teal | 69,640 | 35,500 | 5,882 | 9,115 | 4,035 | 2,670 | | | | 126,842 | |
| Cinnamon teal | 123 | 40 | 120 | 20 | 0 | 0 | | | | 303 | |
| N. shoveler | 19,810 | 14,192 | 10,196 | 7,945 | 8,550 | 4,975 | | | | 65,668 | |
| Wood duck | 100 | 130 | 2 | 0 | 0 | 0 | | | | 232 | |
| other dabblers | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | |
| TOTAL DABLERS | 292,789 | 115,146 | 59,350 | 116,685 | 156,285 | 38,683 | | | | 778,938 | |
| Ring-necked duck | 1,170 | 7,550 | 757 | 1,235 | 500 | 150 | | | | 11,362 | |
| Ruddy duck | 1,160 | 2,000 | 77 | 0 | 300 | 0 | | | | 3,537 | |
| Bufflehead | 275 | 150 | 6 | 50 | 0 | 134 | | | | 615 | |
| 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 ¹ | 8 | 0 | 0 | 0 | 0 | 0 | | | | 8 | |
| TOTAL DIVERS | 2,613 | 9,700 | 840 | 1,285 | 800 | 284 | | | | 15,522 | |
| TOTAL DUCKS | 295,402 | 124,846 | 60,190 | 117,970 | 157,085 | 38,967 | | | | 794,460 | |
| PERCENTAGES | 37.2 | 15.7 | 7.6 | 14.8 | 19.8 | 4.9 | | | | | |

¹ Other divers = hooded mergansers

Sacramento NWR Complex Waterfowl Survey Summary

| Refuge Date | Sacramento 1/3/2011 | Delevan 1/4/2011 | Colusa 1/4/2011 | Sutter 1/4/2011 | Butte Sink | SUB TOTALS | Llano Seco 1/6/2011 | GRAND TOTALS |
|-----------------------|------------------------|---------------------|--------------------|--------------------|---------------|---------------|---------------------------|-----------------|
| Coot | 33580 | 20300 | 7195 | 5600 | n | 66675 | 3460 | 70135 |
| Tundra Swan | 0 | 0 | 0 | 0 | o | 0 | 0 | 0 |
| Sandhill Crane | 0 | 0 | 0 | 0 | t | 0 | 40 | 40 |
| White-fronted goose | 26427 | 26370 | 12985 | 15973 | s | 81755 | 0 | 81755 |
| Tule W-F goose | 0 | 0 | 0 | 0 | u | 0 | 0 | 0 |
| White goose | 100400 | 62500 | 27032 | 49665 | r | 239597 | 0 | 239597 |
| Western Canada goose | 93 | 30 | 0 | 0 | v | 123 | 85 | 208 |
| Aleutian Canada goose | 0 | 0 | 0 | 0 | e | 0 | 0 | 0 |
| Cackling Canada goose | 0 | 0 | 3 | 0 | y | 3 | 0 | 3 |
| TOTAL GEESE | 126920 | 88900 | 40020 | 65638 | d | 321478 | 85 | 321563 |
| Mallard | 18760 | 15296 | 5208 | 11765 | d | 51029 | 6774 | 57803 |
| Pintail | 335170 | 92680 | 14636 | 43730 | u | 486216 | 32150 | 518366 |
| Gadwall | 33553 | 19650 | 8661 | 4770 | e | 66634 | 3285 | 69919 |
| Wigeon | 19010 | 4850 | 12567 | 13100 | | 49527 | 46740 | 96267 |
| Green-winged teal | 92280 | 85100 | 8285 | 2655 | t | 188320 | 2730 | 191050 |
| Cinnamon teal | 220 | 20 | 58 | 10 | o | 308 | 0 | 308 |
| N. shoveler | 30904 | 19770 | 12373 | 8850 | | 71897 | 9605 | 81502 |
| Wood duck | 0 | 0 | 2 | 10 | f | 12 | 0 | 12 |
| other dabblers | 0 | 0 | 0 | 0 | l | 0 | 0 | 0 |
| TOTAL DABLERS | 529897 | 237366 | 61790 | 84890 | o | 913943 | 101284 | 1015227 |
| Ring-necked duck | 1315 | 1260 | 1039 | 1770 | i | 5384 | 0 | 5384 |
| Ruddy duck | 4180 | 1700 | 60 | 0 | n | 5940 | 0 | 5940 |
| Bufflehead | 120 | 390 | 67 | 65 | g | 642 | 0 | 642 |
| Redhead | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| Canvasback | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| Lesser scaup | 0 | 0 | 0 | 150 | | 150 | 0 | 150 |
| other divers* | 0 | 0 | 2 | 0 | | 2 | 0 | 2 |
| TOTAL DIVERS | 5615 | 3350 | 1168 | 1985 | | 12118 | 0 | 12118 |
| TOTAL DUCKS | 535512 | 240716 | 62958 | 86875 | | 926061 | 101284 | 1027345 |
| PERCENTAGES | 52.1 | 23.4 | 6.1 | 8.5 | | | 9.9 | |

* other divers on Colusa were common mergansers

**Early January Waterfowl Survey not completed in 2010 due to fog.

Sacramento NWR Complex Waterfowl Survey Summary

| Refuge Date | Sacramento 1/20/2011 | Delevan 1/24/2011 | Colusa 1/20/2011 | Sutter 1/25/2011 | Butte Sink 1/25/2011 | Llano Seco 1/20/2011 | GRAND TOTALS |
|---------------------------|-------------------------|----------------------|---------------------|---------------------|----------------------------|----------------------------|-----------------|
| Coot | 36,550 | 19,930 | 8,598 | 7,390 | 786 | 2,070 | 75,324 |
| Tundra Swan | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandhill Crane | 0 | 0 | 2 | 0 | 0 | 258 | 260 |
| White-fronted goose | 39,610 | 30,650 | 11,510 | 16,120 | 1,117 | 16,120 | 115,127 |
| Tule W-F goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| White goose | 115,500 | 43,800 | 14,092 | 19,670 | 0 | 16,000 | 209,062 |
| Western Canada goose | 84 | 20 | 0 | 0 | 6 | 474 | 584 |
| Aleutian goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cackling goose | 0 | 0 | 120 | 0 | 0 | 270 | 390 |
| Undiff. Canada goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL GEESE | 155,194 | 74,470 | 25,722 | 35,790 | 1,123 | 32,864 | 325,163 |
| Mallard | 14,260 | 17,464 | 7,871 | 9,241 | 484 | 3,030 | 52,350 |
| Pintail | 107,800 | 36,790 | 18,340 | 91,885 | 15,572 | 13,620 | 284,007 |
| Gadwall | 27,170 | 17,600 | 8,933 | 3,660 | 3,153 | 2,870 | 63,386 |
| Wigeon | 10,530 | 4,240 | 10,134 | 11,545 | 2,482 | 13,054 | 51,985 |
| Green-winged teal | 50,460 | 59,180 | 10,759 | 7,005 | 3,393 | 3,330 | 134,127 |
| Cinnamon teal | 90 | 40 | 9 | 22 | 0 | 0 | 161 |
| N. shoveler | 27,004 | 24,000 | 12,397 | 7,830 | 2,105 | 4,970 | 78,306 |
| Wood duck | 0 | 0 | 0 | 10 | 2 | 2 | 14 |
| other dabblers | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL DABLERS | 237,314 | 159,314 | 68,443 | 131,198 | 27,191 | 40,876 | 664,336 |
| Ring-necked duck | 2,270 | 3,000 | 806 | 1,800 | 2,400 | 4 | 10,280 |
| Ruddy duck | 3,280 | 2,650 | 104 | 80 | 430 | 0 | 6,544 |
| Bufflehead | 760 | 330 | 48 | 67 | 10 | 50 | 1,265 |
| Redhead | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Canvasback | 8 | 0 | 1 | 0 | 130 | 0 | 139 |
| Lesser scaup | 45 | 0 | 0 | 485 | 1,400 | 0 | 1,930 |
| other divers ¹ | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| TOTAL DIVERS | 6,363 | 5,980 | 959 | 2,434 | 4,370 | 54 | 20,160 |
| TOTAL DUCKS | 243,677 | 165,294 | 69,402 | 133,632 | 31,561 | 40,930 | 684,496 |
| PERCENTAGES | 35.6 | 24.1 | 10.1 | 19.5 | 4.6 | 6.0 | |

¹ Other divers at Sutter NWR = common goldeneye

Sacramento NWR Complex Waterfowl Survey Summary

| Refuge Date | Sacramento 2/4/2011 | Delevan 2/2/2011 | Colusa 2/1/2011 | Sutter 2/2/2011 | Butte Sink 2/7/2011 | Llano Seco 2/2/2011 | GRAND TOTALS |
|---------------------------|------------------------|---------------------|--------------------|--------------------|---------------------------|---------------------------|-----------------|
| Coot | 37,500 | 21,860 | 5,938 | 7,100 | 5,610 | 5,110 | 83,118 |
| Tundra Swan | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandhill Crane | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| White-fronted goose | 40,150 | 20,550 | 3,949 | 7,130 | 620 | 9,224 | 81,623 |
| Tule W-F goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| White goose | 74,700 | 32,550 | 4,261 | 4,068 | 30 | 44,790 | 160,399 |
| Western Canada goose | 58 | 24 | 0 | 0 | 20 | 96 | 198 |
| Aleutian goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cackling goose | 190 | 0 | 110 | 0 | 0 | 350 | 650 |
| Undiff. Canada goose | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL GEESE | 115,098 | 53,124 | 8,320 | 11,198 | 670 | 54,460 | 242,870 |
| Mallard | 17,869 | 9,248 | 4,287 | 5,387 | 1,250 | 664 | 38,705 |
| Pintail | 23,100 | 16,490 | 9,103 | 11,475 | 10,720 | 10,770 | 81,658 |
| Gadwall | 25,520 | 18,470 | 5,790 | 3,490 | 2,735 | 940 | 56,945 |
| Wigeon | 3,230 | 3,900 | 4,549 | 1,580 | 1,070 | 20,300 | 34,629 |
| Green-winged teal | 52,400 | 43,230 | 6,818 | 3,545 | 400 | 4,460 | 110,853 |
| Cinnamon teal | 270 | 75 | 8 | 140 | 0 | 0 | 493 |
| N. shoveler | 27,930 | 24,570 | 7,867 | 4,330 | 4,135 | 5,720 | 74,552 |
| Wood duck | 0 | 30 | 0 | 0 | 1 | 0 | 31 |
| other dabblers | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL DABLERS | 150,319 | 116,013 | 38,422 | 29,947 | 20,311 | 42,854 | 397,866 |
| Ring-necked duck | 4,930 | 630 | 1,652 | 2,365 | 500 | 762 | 10,839 |
| Ruddy duck | 3,150 | 2,100 | 82 | 30 | 1,410 | 2 | 6,774 |
| Bufflehead | 240 | 140 | 18 | 25 | 40 | 80 | 543 |
| Redhead | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Canvasback | 200 | 0 | 1 | 0 | 0 | 0 | 201 |
| Lesser scaup | 130 | 0 | 0 | 53 | 0 | 0 | 183 |
| other divers ¹ | 3 | 2 | 0 | 4 | 0 | 0 | 9 |
| TOTAL DIVERS | 8,653 | 2,872 | 1,753 | 2,477 | 1,950 | 844 | 18,549 |
| TOTAL DUCKS | 158,972 | 118,885 | 40,175 | 32,424 | 22,261 | 43,698 | 416,415 |
| PERCENTAGES | 38.2 | 28.5 | 9.6 | 7.8 | 5.3 | 10.5 | |

¹ Other divers at Sacramento and Delevan = hooded mergansers; at Sutter NWR = c. goldeneye.