

## 2004/2005 Light Goose (Snow and Ross's) Harvest Report

This report provides information on the estimated harvest of light geese during the regular goose season and the conservation action period. Harvest is reported both on a county and statewide basis. Information is provided on the use of electronic calls and extended hunting hours during the conservation action period.

A post-season harvest survey was conducted by phone.

A stratified random sample of 2493 potential light goose hunters was drawn from among HIP participants. 1580 (63% response rate) hunters were contacted.

Of the 326 hunters who reported hunting light geese, 251 or 77% reported they had actively hunted light geese during the regular goose season. Forty-four percent or 144 hunters reported hunting light geese during the conservation action period.

67 % reported being satisfied with their light goose hunting experience; as compared to 80% in 2003/04.

The leading reason for hunting during the conservation action period was concern for the environment (37%), followed closely by the opportunity to harvest unlimited light geese (31%). Use of electronic callers (19%) and extended hunting hours (12%) were not a factor for the majority of hunters surveyed.

Forty percent (639) of the 1580 hunters surveyed said they would be very likely to participate in future conservation action periods. Thirty-five percent (554) were somewhat likely to participate and 24% (387) were not at all likely to participate.

***Statewide harvest for the conservation action period was estimated at 16,135  $\pm$  7,095 (9,039 - 23,230).***

### **Comparison with 2004/05 survey results:**

Comparing the figures for the conservation action period for both years, the estimated harvest was down slightly (but not significantly) for the 04/05 conservation action period. In 03/04 an estimated 24,497  $\pm$  6,440 (18,057- 30,937) birds were harvested during the conservation action period. Hunter numbers decreased from 1,877  $\pm$  361 in 03/04 to 1,281  $\pm$  306 in 04/05 (not a significant decrease). Total days hunted decreased from an estimated 8,547  $\pm$  1785 in 03/04 to 6,593  $\pm$  2340 in 04/05 (not significant).

### **Hunter Statistics and Harvest by Strata, County and Population**

Summary tables provide estimates of hunter numbers, days in the field and light goose harvest by county and population. Estimates are followed by the standard error of the estimate, and 95% upper (UCI) and lower (LCI) confidence intervals around the estimate. For example, the estimated number of light goose hunters in Prowers County during the conservation action is 281 plus or minus 1.96(SE) or 1.96(73)=143. The range of the estimate is 138 to 423. Estimates of days in the field and harvest are interpreted the same way. State totals are given at the bottom of each column.

**(The output wraps around.)**

2004-2005 Light Goose Survey Results

**Hunted Light Geese During the 2004-2005 Season (Oct 2 - Mar 31)?**

hunt0405	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	326	20.63	326	20.63
No	1254	79.37	1580	100.00

**Hunted Light Geese During the Regular Season (Oct 2 - Feb 20)?**

huntreg	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	251	76.99	251	76.99
No	75	23.01	326	100.00

**Hunted During the Conservation Action (Mar 1-Mar 31)?**

huntca	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	144	44.17	144	44.17
No	182	55.83	326	100.00

**Reason for Hunting**

reason	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Environmental Concerns	53	37.06	53	37.06
Harvest unlimited light geese	45	31.47	98	68.53
Use electronic callers	27	18.88	125	87.41
Hunt after sunset	18	12.59	143	100.00

**Satisfaction**

satis	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Strongly Dissatisfied	20	13.89	20	13.89
Somewhat Dissatisfied	15	10.42	35	24.31
Slightly Dissatisfied	10	6.94	45	31.25
Neutral	2	1.39	47	32.64
Slightly Satisfied	9	6.25	56	38.89
Somewhat Satisfied	34	23.61	90	62.50
Strongly Satisfied	54	37.50	144	100.00



**Hunt in Future Conservation Action Seasons?**

future	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Not likely	387	24.49	387	24.49
Somewhat likely	554	35.06	941	59.56
Very likely	639	40.44	1580	100.00

**Strata**

strata	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Did not hunt last year	1125	71.20	1125	71.20
None bagged last year	94	5.95	1219	77.15
1-30 bagged last year	251	15.89	1470	93.04
30+ bagged last year	110	6.96	1580	100.00

**Use Electronic Calls to Hunt during the Conservation Action**

useecalls	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	14	33.33	14	33.33
No	28	66.67	42	100.00

**Hunt during the extended hunting hours during the Conservation Action?**

sunset	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	17	41.46	17	41.46
No	24	58.54	41	100.00

## Harvest Summaries for State-wide Estimates

----- Strata=Did not hunt last year -----

Variable	Estimate	Standard Error	LCI	UCI
Days hunted regular season	20916	3298.5	14451	27381
Harvest regular season	9449	3144.6	3286	15612
Days hunted CA season	1782	574.4	656	2908
Harvest CA season	4943	3297.1	-1519	11405
Days hunted all seasons	22698	3538.4	15763	29633
Harvest all seasons	14392	4701.7	5177	23608
Electronic Call Harvest all seasons	4775	3293.2	-1680	11230
Electronic Call Harvest CA season	4775	3293.2	-1680	11230
Extended Hours Harvest CA season	202	148.1	-88	492
Hunters regular season	3060	303.1	2466	3654
Hunters CA season	504	127.5	255	754
Hunters all seasons	3228	310.5	2620	3837

----- Strata=None bagged last year -----

Variable	Estimate	Standard Error	LCI	UCI
Days hunted regular season	7335	2450.1	2533	12137
Harvest regular season	1217	513.3	211	2224
Days hunted CA season	1674	982.9	-252	3600
Harvest CA season	243	162.9	-76	563
Days hunted all seasons	9009	3193.8	2749	15269
Harvest all seasons	1461	546.2	390	2532
Electronic Call Harvest all seasons	183	111.0	-35	400
Electronic Call Harvest CA season	183	111.0	-35	400
Extended Hours Harvest CA season	0	0.0	0	0
Hunters regular season	609	119.4	375	843
Hunters CA season	243	81.4	84	403
Hunters all seasons	700	125.4	454	946

----- Strata=1-30 bagged last year -----

Variable	Estimate	Error	Standard LCI	UCI
Days hunted regular season	5396	670.0	4082	6709
Harvest regular season	5187	692.3	3830	6544
Days hunted CA season	2115	321.5	1485	2746
Harvest CA season	6745	1312.9	4171	9318
Days hunted all seasons		7511	829.7	5885
9137 Harvest all seasons		11932	1627.9	8741
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Electronic Call Harvest all seasons	4415	921.7	2608	6221
Electronic Call Harvest CA season	4415	921.7	2608	6221
Extended Hours Harvest CA season	840	205.5	437	1243
Hunters regular season	576	43.1	492	661
Hunters CA season	448	40.4	368	527
Hunters all seasons	773	44.5	685	860

----- Strata=30+ bagged last year -----

Variable	Estimate	Standard Error	LCI	UCI
Days hunted regular season	1639	230.8	1187	2092
Harvest regular season	4745	1057.9	2671	6818
Days hunted CA season	1021	161.2	705	1337
Harvest CA season	4203	695.2	2841	5566
Days hunted all seasons	2660	337.9	1998	3323
Harvest all seasons	8948	1600.2	5812	12085
Electronic Call Harvest all seasons	3045	593.8	1881	4209
Electronic Call Harvest CA season	3045	593.8	1881	4209
Extended Hours Harvest CA season	845	199.6	453	1236
Hunters regular season	82	6.1	70	94
Hunters CA season	86	6.2	73	98
Hunters all seasons	112	6.2	100	124

----- Strata=Totals -----

Variable	Estimate	Standard Error	LCI	UCI
Days hunted regular season	35286	4169.6	27114	43458
Harvest regular season	20599	3427.8	13880	27317
Days hunted CA season	6593	1193.9	4252	8933
Harvest CA season	16135	3620.0	9039	23230
Days hunted all seasons	41878	4850.1	32372	51385
Harvest all seasons	36733	5255.0	26434	47033
Electronic Call Harvest all seasons	12417	3472.7	5611	19224
Electronic Call Harvest CA season	12417	3472.7	5611	19224
Extended Hours Harvest CA season	1886	322.5	1254	2518

Hunters regular season	4327	328.6	3683	4971
Hunters CA season	1281	156.7	974	1588
Hunters all seasons	4813	337.9	4151	5475

**Regular Season Harvest by Counties**

<b>County</b>	<b>Hunters</b>	<b>SE(Hunters)</b>	<b>LCI (Hunters)</b>	<b>UCI (Hunters)</b>
Adams	274	92	92	455
Arapahoe	34	33	-31	99
Archuleta	67	47	-24	159
Baca	48	34	-19	114
Bent	74	35	5	143
Boulder	99	55	-9	208
Chaffee	67	47	-24	159
Conejos	6	6	-5	17
Crowley	91	46	2	181
Delta	67	47	-24	159
El Paso	35	33	-30	100
Gunnison	34	33	-31	99
Kiowa	143	25	94	192
Larimer	567	130	312	822
Las Animas	35	33	-30	100
Logan	437	105	232	642
Mesa	67	47	-24	159
Montrose	35	33	-30	100
Morgan	527	113	305	748
Otero	132	45	44	221
Phillips	6	6	-5	17

<b>Estimated Harvest</b>	<b>SE(Harvest)</b>	<b>LCI (Harvest)</b>	<b>UCI (Harvest)</b>
1045	699	-326	2416
0	0	0	0
135	132	-125	394
153	134	-109	415
153	45	65	242
757	502	-226	1740
135	105	-71	340
0	0	0	0
354	143	75	634
0	0	0	0
9	6	-3	20
34	33	-31	99
1760	419	940	2580
2854	1106	687	5021
69	41	-10	149
1156	263	642	1671
34	33	-31	99
76	67	-54	207
1593	359	889	2297
1112	288	548	1675
6	6	-5	17

County	Hunters	SE(Hunters)	LCI (Hunters)	UCI (Hunters)
Prowers	406	100	209	602
Pueblo	299	88	126	471
Sedgwick	162	54	56	267
Washington	26	10	6	45
Weld	1111	182	754	1469
Yuma	20	10	1	39
Unknown	170	74	25	315
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<b>5040</b>				

Estimated Harvest	SE(Harvest)	LCI (Harvest)	UCI (Harvest)
1445	442	578	2311
1908	1064	-177	3994
1274	333	620	1927
152	56	42	263
4178	2079	104	8253
0	0	0	0
207	141	-68	483
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<b>20599</b>			

### Conservation Action Season Harvest by Counties

County	Hunters	SE(Hunters)	LCI (Hunters)	UCI (Hunters)	Days Hunted	SE(Days Hunted)
Adams	34	33	-31	99	101	99
Baca	44	31	-16	105	175	98
Bent	19	8	3	36	58	22
Crowley	37	33	-28	102	147	133
Kiowa	70	18	36	105	464	138
Kit Carson	6	6	-5	17	6	6
Las Animas	8	6	-3	19	13	7
Logan	440	98	249	631	1722	398
Morgan	40	30	-19	100	979	928
Otero	31	10	11	51	298	173
Prowers	281	73	138	423	872	224
Pueblo	46	34	-21	113	208	143
Sedgwick	182	50	84	279	1003	344
Washington	37	33	-28	102	105	70
Weld	77	47	-15	169	268	158
Unknown	83	47	-10	176	174	81
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<b>1435</b>					<b>6593</b>	

<u>LCI (Days</u> <u>Hunted)</u>	<u>UCI (Days</u> <u>Hunted)</u>	<u>Estimated</u> <u>Harvest</u>	<u>SE (Harvest)</u>	<u>LCI</u> <u>(Harvest)</u>	<u>UCI</u> <u>(Harvest)</u>
-94	296	0	0	0	0
-17	367	328	182	-28	685
14	101	357	186	-8	722
-113	407	2	1	-1	4
193	735	545	169	214	876
-5	17	37	34	-29	103
-1	28	17	9	-1	35
942	2502	2849	1094	705	4993
-840	2798	392	237	-73	857
-41	637	1062	678	-267	2390
433	1311	3665	996	1714	5617
-72	488	334	217	-92	760
329	1676	5355	2310	829	9882
-33	243	880	828	-744	2504
-42	579	11	7	-3	25
15	333	301	144	19	582
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