

2003 Ptarmigan Grouse Harvest Report

A post-season harvest survey was conducted by phone.

A stratified random sample of 2498 ptarmigan grouse hunters was drawn from among HIP participants. 1591 (64% response rate) hunters were contacted.

Of those surveyed, 101 or 6% reported they had hunted ptarmigan. The number of birds harvested ranged from 0 (61 respondents) to 9 (2 respondents). Ten respondents reported harvesting 2 birds.

88% reported being satisfied with their ptarmigan grouse hunting experience and 86% reported no crowding.

Harvest results are provided by strata and county.

In addition, there is a summary table of areas hunted (nearest landmark) and harvest reported from survey respondents.

Statewide harvest estimate = 975 ± 527 (449 - 1502).

Comparison with 2002 survey results:

Harvest was up from 2002 when an estimated 254 ± 115 birds were harvested. Correspondingly hunter numbers increased from 372 ± 119 in 2002 to 516 ± 112 . Days hunted increased from an estimated 967 ± 357 in 2002 to 2389 ± 1382 . The difference in harvest is statistically significant at the 95% confidence level, while hunter number and days in the field are not.

Harvest by Strata and County

Summary tables provide estimates of hunter numbers, days in the field and ptarmigan grouse harvest by strata and county. 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 ptarmigan grouse hunters in Clear Creek county is 38 plus or minus 1.96(SE) or $1.96(8)=16$. The range of the estimate is 22 to 55. 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.)

**Ptarmigan Harvest 2003
Summary of Data by Strata**

ptarstrata	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Will not hunt	501	31.43	501	31.43
Somewhat likely	769	48.24	1270	79.67
Very likely	324	20.33	1594	100.00

Hunted during Season?

hunt	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Yes	101	6.36	101	6.36
No	1488	93.64	1589	100.00

Table of ptarstrata by Hunt

ptarstrata	hunt(Hunted during season?)		
	Yes	No	Total
Frequency			
Percent			
Row Pct			
Col Pct			
Will not hunt	6	494	500
	0.38	31.09	31.47
	1.20	98.80	
	5.94	33.20	
Somewhat likely	23	746	769
	1.45	46.95	48.40
	2.99	97.01	
	22.77	50.13	
Very likely	72	248	320
	4.53	15.61	20.14
	22.50	77.50	
	71.29	16.67	
Total	101	1488	1589
	6.36	93.64	100.00

Satisfied with Hunt?

satisfy	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Somewhat Dis.	1	0.94	1	0.94
Slightly Dis.	4	3.77	5	4.72
Neutral	8	7.55	13	12.26
Slightly Sat.	6	5.66	19	17.92

Somewhat Sat.	25	23.58	44	41.51
Strongly Sat.	62	58.49	106	100.00

Feel Crowded?

crowded	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Not at all	89	85.58	89	85.58
Slightly	8	7.69	97	93.27
Moderately	4	3.85	101	97.12
Extremely	3	2.88	104	100.00

Possibly Hunting Other Species

other	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	8	100.00	8	100.00

Total Harvest

totharv	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	61	60.40	61	60.40
1	6	5.94	67	66.34
2	10	9.90	77	76.24
3	9	8.91	86	85.15
4	5	4.95	91	90.10
5	4	3.96	95	94.06
6	2	1.98	97	96.04
7	1	0.99	98	97.03
8	1	0.99	99	98.02
9	2	1.98	101	100.00

Summary of Areas Hunted with Harvest Reported from Sample

Table of alpha by totharv

alpha(Description of hunting areas)	totharv(Total harvest)				Total
Frequency	Zero	1-3	4-6	>6	
10 MI-RIDGEWAY S	1	0	0	0	1
E MT SNOFFELS					

2 MI W OF SILVER PLUME S OF I70	1	0	0	0	1
3-5MI E OF KEYST ONE SKI AREA	1	0	0	0	1
35 MI WEST OF SA QUACHE	1	0	0	0	1
4 MI N OF G-TOWN /REPUBLIC MTN	0	0	1	0	1
ARAPAHOE BASIN	0	0	0	1	1
ARGENTINE PASS-G EORGETOWN	0	0	1	0	1
ASPEN	1	0	0	0	1
ASPENS INDEPENDEN CE PASS	1	0	0	0	1
BERTHOUD PASS	1	0	0	0	1
BERTHOUD PASS AR EA	1	0	0	0	1
BOULDER	0	0	0	0	0
BRECKENRIDGE	0	1	0	0	1
BRECKENRIDGE, PE ALS 10	1	0	0	0	1
BUCKHORN CREEK	0	1	0	0	1
Total	61	25	11	4	101

(Continued)

Table of alpha by totharv

alpha(Description of hunting areas)	totharv(Total harvest)				Total
Frequency	Zero	1-3	4-6	>6	
CASCADE CREEK	1	0	0	0	1
CHIMNEY ROCK-DEV ILS MTN	0	1	0	0	1
COMACHIE WILDERN ESS CAMERON PSS	0	1	0	0	1
CONTINENTAL DIVI DE @ JUN CREEK	1	0	0	0	1
COPPER MOUNTAIN	1	0	0	0	1
CORONA PASS	0	0	1	0	1
COTTONWOOD PASS	3	0	0	0	3

COTTONWOOD PASS (TOP)	1	0	0	0	1
COTTONWOOD/MARSH ALL PASS	0	0	0	1	1
CRAIG	0	0	1	0	1
CREEDE 149	0	1	0	0	1
CROUSIER MTN	0	1	0	0	1
CROWN POINT	1	0	0	0	1
DEL NORTE (HWY 2 85)	0	1	0	0	1
DEL NORTE PEAK	1	0	0	0	1
DILLON LAKE-15 M IN W OF	1	0	0	0	1
Total (Continued)	61	25	11	4	101

Table of alpha by totharv

alpha(Description of hunting areas)	totharv(Total harvest)				Total
Frequency	Zero	1-3	4-6	>6	
EAGLES NEST DILL ON	0	1	0	0	1
ELLIOTT RIDGE (N EAR GR MTN RES)	0	0	0	0	0
FOSSIL RIDGE	1	0	1	0	2
FREMONT CAMP	0	1	0	0	1
FT COLLINS POWDR E RIVER	1	0	0	0	1
GEORGETOWN	2	0	0	0	2
GEORGETOWN S FEW MILES	1	0	0	0	1
GRAND LAKE	0	1	0	0	1
GRAY'S PEAK	1	0	0	0	1
GREEN MTN RESERV OIR	1	0	0	0	1
GRIZZLY PARK	0	1	0	0	1
GUANELLA PASS	0	0	1	0	1
HARVEY GAP	0	0	1	0	1
HIGHWAY 14 AT CA	1	0	0	0	1

MERON PASS					
HIGHWAY 160/DURA NGO	1	0	0	0	1
HIGHWAY 306	0	1	0	0	1
Total (Continued)	61	25	11	4	101

Table of alpha by totharv

alpha(Description of hunting areas)	totharv(Total harvest)				Total
Frequency	Zero	1-3	4-6	>6	
HIGHWAY 9 IN UNIT 35 N OF EAGLE	1	0	0	0	1
HWY 14	0	1	0	0	1
INDEPENDENCE PASS SUMMIT	0	1	0	0	1
JEFFERSON (285)	0	1	0	0	1
JONES PASS	1	0	0	0	1
JONES PASS-BORDER OF CLEAR CK	1	0	0	0	1
KEYSTONE	1	0	0	0	1
LA GARITA	0	0	0	1	1
LA VETA	1	0	0	0	1
LEADVILLE	0	1	0	0	1
LEADVILLE HWY 82 & MT ELBERT	0	0	1	0	1
LEFT HAND RES	1	0	0	0	1
LOVELAND PASS	0	1	1	0	2
LOVELAND PASS ON TOP	1	0	0	0	1
MIDDLE AND SOUTH ST VRAIN CREEK	1	0	0	0	1
MOFFAT RAILROAD TUNNEL	0	1	0	0	1
Total	61	25	11	4	101

Table of alpha by totharv

alpha(Description of hunting areas)	totharv(Total harvest)				Total
Frequency	Zero	1-3	4-6	>6	
MOSQUITO PASS-NEAREST TOWN-BREC	1	0	0	0	1
MT EVANS	2	0	0	0	2
MT EVANS EVERGREEN	1	0	0	0	1

MT ZIRKEL BUFFALO PASS	0	1	0	0	1
NATHROP	1	0	0	0	1
NETHERLAND	1	0	0	0	1
NEW YORK MTN	1	0	0	0	1
NIWOT RIDGE OUTSIDE BOULDER	0	1	0	0	1
NORTH OF MEEKER	0	1	0	0	1
NORTHWEST OF DILLON	1	0	0	0	1
NATHROP	0	0	0	0	0
NW BUFORD	1	0	0	0	1
NW RAINBOW LAKE NW OF CU RES CT	1	0	0	0	1
PINEY CREEK OUTSIDE WOOLCAT NE	1	0	0	0	1
RABBIT EARS PASS -MUDDY PASS	1	0	0	0	1
REDCLIFFE	0	0	0	1	1
Total	61	25	11	4	101

(Continued)

Table of alpha by totharv

alpha(Description of hunting areas)	totharv(Total harvest)				Total
	Zero	1-3	4-6	>6	
ROLLINS PASS	0	1	0	0	1
S OF POUUDRE CANYON	1	0	0	0	1
SHEEP MTN JAMES P PERRY	0	0	1	0	1
SI-70 GEORGETOWN	0	2	0	0	2
SILVERTHORNE	2	0	0	0	2
SOUTHWEST OF SILVERTON	1	0	0	0	1
STEAMBOAT SPRINGS	1	0	0	0	1
TAYLOR RES	1	0	0	0	1
TENTH MTN DIVISI	1	0	0	0	1

ON					
TOP OF ARAPAHOE BASIN SKI AREA	0	0	1	0	1
TRIANGLE PARK	1	0	0	0	1
UNIT 45-HOLY CRO SS WILDERNESS	1	0	0	0	1
W ALMA MTN LINCO LN	2	0	0	0	2
WALDEN	1	0	0	0	1
WESTIN PASS	0	1	0	0	1
WESTON PASS-BUEN A VISTA	1	0	0	0	1
Total	61	25	11	4	101

County Hunted

county	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Archuleta	1	0.86	1	0.86
Boulder	8	6.90	9	7.76
Chaffee	8	6.90	17	14.66
Clear Creek	16	13.79	33	28.45
Eagle	11	9.48	44	37.93
Garfield	3	2.59	47	40.52
Grand	9	7.76	56	48.28
Gunnison	4	3.45	60	51.72
Huerfano	1	0.86	61	52.59
Jackson	4	3.45	65	56.03
Lake	5	4.31	70	60.34
La Plata	3	2.59	73	62.93
Larimer	8	6.90	81	69.83
Ouray	1	0.86	82	70.69
Pitkin	2	1.72	84	72.41
Rio Grande	3	2.59	87	75.00
Routt	2	1.72	89	76.72
Saguache	3	2.59	92	79.31
Summit	16	13.79	108	93.10
Gilpin	2	1.72	110	94.83
Mineral	1	0.86	111	95.69
Park	5	4.31	116	100.00

Harvest by Strata

ptarstrata	Estimated		LCI (Hunters)	UCI (Hunters)	Estimated	
	Hunters	SE(Hunters)			Days Hunted	SE(Days Hunted)

Will not hunt	118	43	34	201	1125	679	-205
Somewhat likely	176	34	110	242	627	177	280
Very likely	223	18	187	259	637	68	503
Total	516	57	404	629	2389	705	1007

UCI(Days Hunted)	Estimated Harvest	SE(Harvest)	LCI (Harvest)	UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
2456	437	249	-51	924	17	16	-15	49
974	260	88	87	432	0	0	0	0
771	279	50	180	377	6	5	-3	15
3771	975	269	449	1502	23	17	-11	56

Harvest by Counties

County	Estimated Hunters	SE(Hunters)	LCI (Hunters)	UCI (Hunters)	Estimated Days Hunted	SE(Days Hunted)	LCI(Days Hunted)	UCI(Days Hunted)
Archuleta	17	16	-15	49	118	114	-106	341
Boulder	39	19	3	75	388	326	-252	1027
Chaffee	25	9	7	43	98	52	-5	200
Clear Creek	38	8	22	55	82	21	42	123
Conejos	8	7	-6	22	23	21	-19	65
Eagle	37	10	17	57	198	103	-4	400
Garfield	23	12	-1	47	76	48	-18	171
Grand	56	25	8	104	189	105	-17	395
Gunnison	14	8	-2	29	43	20	4	82
Huerfano	6	3	-1	12	12	8	-3	27
Jackson	16	8	0	33	34	18	-2	70
Lake	11	8	-4	25	28	12	4	52
La Plata	18	10	-2	38	70	46	-19	159
Larimer	27	11	5	49	386	326	-253	1026
Ouray	3	2	-2	8	32	26	-19	84
Pitkin	11	8	-4	25	16	10	-3	36
Rio Grande	37	23	-9	82	177	115	-49	403
Routt	19	9	3	36	36	17	3	69
Saguache	18	10	-2	38	59	31	-1	119
Summit	75	22	32	118	186	57	74	298
Mineral	3	2	-2	8	3	2	-2	8

Estimated Harvest	SE(Harvest)	LCI (Harvest)	UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
50	49	-45	146	17	16	-15	49
82	66	-47	211	0	0	0	0
26	17	-7	60	0	0	0	0
44	18	10	79	0	0	0	0
8	7	-6	22	0	0	0	0
26	16	-5	58	0	0	0	0
38	36	-32	108	0	0	0	0
147	83	-16	310	0	0	0	0
12	10	-7	30	0	0	0	0
15	12	-9	38	0	0	0	0
3	2	-2	8	0	0	0	0
26	16	-5	58	0	0	0	0
0	0	0	0	0	0	0	0
209	165	-114	531	0	0	0	0
0	0	0	0	0	0	0	0
23	21	-19	65	0	0	0	0
34	33	-30	97	0	0	0	0
24	15	-6	54	6	5	-3	15
21	15	-8	51	0	0	0	0
138	67	7	268	0	0	0	0
6	5	-3	15	0	0	0	0

Harvest by Counties (con't)

County	Estimated		LCI	UCI	Estimated		LCI(Days	UCI(Days
	Hunters	SE(Hunters)			Days	Hunted		
Park	16	8	0	33	135	107	-75	346
State Total	516	57	404	629	2389	705	1007	3771

Estimated	SE(Harvest)	LCI	UCI	Not	SE(Not	LCI(Not.	UCI(Not.
44	36	-26	115	0	0	0	0
975	269	449	1502	23	17	-11	56