

2003 Sharp-tailed Grouse Harvest Report

A post-season harvest survey was conducted by phone.

A stratified random sample of 3969 sharp-tailed grouse hunters was drawn from among HIP participants. 2090 (52% response rate) hunters were contacted.

Of those surveyed, 85 or 4% reported they had hunted sharptails. The number of birds harvested ranged from 0 (32 respondents) to 20 (1 respondent), with 17 hunters reporting a harvest of 2 birds.

68% reported being satisfied with their sharp-tailed grouse hunting experience and 66% reported no crowding.

Statewide harvest was estimated at 336 ± 77 (259-413).

Comparison with 2001 survey results:

Harvest was up from 2002 when an estimated 148 ± 37 birds were harvested. Hunter numbers increased to 166 ± 26 from 85 ± 27 in 2002. Days hunted were also higher with an estimated 537 ± 118 compared to 317 ± 92 in 2002. These differences are statistically significant at the 95% confidence level.

Harvest results are provided by strata, county, and population.

Harvest by Strata, County and Population

Summary tables provide estimates of hunter numbers, days in the field and sharp-tailed grouse 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 sharp-tailed grouse hunters in Moffat County is 33 plus or minus 1.96(SE) or 1.96(6)=12. The range of the estimate is 20 to 45. 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.)

STG Grouse Harvest 2003
Summary of Sample Data

stgstrata	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Will not hunt	140	6.70	140	6.70
Somewhat likely	1561	74.69	1701	81.39
Very likely	389	18.61	2090	100.00

Hunted during Season?

hunt	Frequency	Percent	Cumulative Frequency	Cumulative Percent
yes	85	4.07	85	4.07
no	2005	95.93	2090	100.00

Table of stgstrata by Hunt

stgstrata	hunt(Hunted during season?)			Total
	yes	no		
Frequency				
Percent				
Row Pct				
Col Pct				
Will not hunt	0	140		140
	0.00	6.70		6.70
	0.00	100.00		
	0.00	6.98		
Somewhat likely	26	1535		1561
	1.24	73.44		74.69
	1.67	98.33		
	30.59	76.56		
Very likely	59	330		389
	2.82	15.79		18.61
	15.17	84.83		
	69.41	16.46		
Total	85	2005		2090
	4.07	95.93		100.00

Satisfied with Hunt?

satisfy	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Strongly Dis.	8	9.41	8	9.41
Somewhat Dis.	8	9.41	16	18.82
Slightly Dis.	3	3.53	19	22.35

Neutral	8	9.41	27	31.76
Slightly Sat.	3	3.53	30	35.29
Somewhat Sat.	22	25.88	52	61.18
Strongly Sat.	33	38.82	85	100.00

Feel Crowded?

crowded	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Not at all	56	65.88	56	65.88
Slightly	18	21.18	74	87.06
Moderately	10	11.76	84	98.82
Extremely	1	1.18	85	100.00

Possibly Hunting Other Species

other	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	3	100.00	3	100.00

Total Harvest

totharv	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	32	37.65	32	37.65
1	8	9.41	40	47.06
2	17	20.00	57	67.06
3	10	11.76	67	78.82
4	10	11.76	77	90.59
6	2	2.35	79	92.94
7	1	1.18	80	94.12
8	2	2.35	82	96.47
10	1	1.18	83	97.65
12	1	1.18	84	98.82
20	1	1.18	85	100.00

County Hunted

county	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Moffat	16	18.18	16	18.18
Rio Blanco	3	3.41	19	21.59
Routt	67	76.14	86	97.73
Unknown	2	2.27	88	100.00

Harvest by Strata

stgstrata	Estimated		LCI (Hunters)	UCI (Hunters)	Estimated		LCI(Days Hunted)	UCI(Days Hunted)
	Hunters	SE(Hunters)			Days Hunted	SE(Days Hunted)		
Somewhat likely	73	11	50	95	209	49	113	
Very likely	94	7	80	108	327	35	259	
Total	166	13	140	193	537	60	418	

UCI(Days Hunted)	Estimated Harvest	SE(Harvest)	LCI (Harvest)	UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
306	84	23	38	129	3	2	-2	7
396	253	32	190	315	13	3	7	18
655	336	39	259	413	15	4	9	22

Harvest by Counties

County	Estimated		LCI (Hunters)	UCI (Hunters)	Estimated		LCI(Days Hunted)	UCI(Days Hunted)
	Hunters	SE(Hunters)			Days Hunted	SE(Days Hunted)		
Moffat	33	6	20	45	63	12	39	87
Rio Blanco	4	2	-0	9	36	16	4	68
Routt	124	11	102	146	424	56	314	533
Unknown	6	3	-1	12	14	8	-2	30
State Total	166	13	140	193	537	60	418	655

Estimated Harvest	SE(Harvest)	LCI (Harvest)	UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
29	7	15	43	3	2	-2	7
16	10	-3	35	0	0	0	0
291	38	218	365	13	3	7	18
0	0	0	0	0	0	0	0
336	39	259	413	15	4	9	22

Harvest by Population

11=North Routt 12=South Routt 13=Moffat 14=Rio Blanco

Population	Estimated		LCI (Hunters)	UCI (Hunters)	Estimated		LCI(Days Hunted)	UCI(Days Hunted)
	Hunters	SE(Hunters)			Days Hunted	SE(Days Hunted)		
Unknown	6	3	-1	12	14	8	-2	30
North Routt	94	10	75	113	358	55	250	465
South Routt	34	7	21	47	57	11	36	78
Moffat	24	5	15	34	49	10	29	69
Rio Blanco	7	3	1	14	39	17	6	72
State Total	166	13	140	193	537	60	418	655

Estimated Harvest	SE(Harvest)	LCI (Harvest)	UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
0	0	0	0	0	0	0	0
214	34	148	280	10	2	5	14
68	16	36	100	2	1	-0	3
29	7	15	43	3	2	-2	7
16	10	-3	35	0	0	0	0
336	39	259	413	15	4	9	22