

# 2002 Sharp-tailed Grouse Harvest Report

A post-season harvest survey was conducted by phone.

A stratified random sample of 3986 sharp-tailed grouse hunters was drawn from among HIP participants. 2431 (61% response rate) hunters were contacted.

Of those surveyed, 55 or 2% reported they had hunted sharptails. The number of birds harvested ranged from 0 (26 respondents) to 10 (1 respondent), with 11 hunters reporting a harvest of 2 birds.

81% reported being satisfied with their sharp-tailed grouse hunting experience and 74% reported no crowding.

***Statewide harvest was estimated at  $148 \pm 37$  (110-186).***

## **Comparison with 2001 survey results:**

Harvest was down from 2001 when an estimated  $393 \pm 107$  birds were harvested. Hunter numbers decreased to  $85 \pm 27$  down from  $236 \pm 49$  in 2001. Days hunted were also lower with an estimated  $317 \pm 92$  compared to  $775 \pm 202$  in 2001. 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 21 plus or minus 1.96(SE) or  $1.96(4)=8$ . The range of the estimate is 14 to 29. 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 2002

stgstrata	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Will not hunt	191	7.86	191	7.86
Somewhat likely	1597	65.69	1788	73.55
Very likely	643	26.45	2431	100.00

### Hunted during Season?

hunt	Frequency	Percent	Cumulative Frequency	Cumulative Percent
yes	55	2.26	55	2.26
no	2375	97.74	2430	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	191	191
	0.00	7.86	7.86
	0.00	100.00	
	0.00	8.04	
Somewhat likely	19	1577	1596
	0.78	64.90	65.68
	1.19	98.81	
	34.55	66.40	
Very likely	36	607	643
	1.48	24.98	26.46
	5.60	94.40	
	65.45	25.56	
Total	55	2375	2430
	2.26	97.74	100.00

### Satisfied with Hunt?

satisfy	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Strongly Dis.	4	7.27	4	7.27
Somewhat Dis.	3	5.45	7	12.73
Slightly Dis.	2	3.64	9	16.36
Neutral	1	1.82	10	18.18
Slightly Sat.	3	5.45	13	23.64
Somewhat Sat.	20	36.36	33	60.00
Strongly Sat.	22	40.00	55	100.00

### Feel Crowded?

crowded	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	1	1.82	1	1.82
Not at all	41	74.55	42	76.36
Slightly	7	12.73	49	89.09
Moderately	6	10.91	55	100.00

### Possibly hunting Other Species

other	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	0	0	0	0

### Total Harvest

totharv	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	27	49.09	27	49.09
1	3	5.45	30	54.55
2	11	20.00	41	74.55
3	4	7.27	45	81.82
4	3	5.45	48	87.27
5	2	3.64	50	90.91
7	1	1.82	51	92.73
8	2	3.64	53	96.36
9	1	1.82	54	98.18
10	1	1.82	55	100.00

## Counties Hunted in Sample

The FREQ Procedure

### County Hunted

county	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Moffat	13	23.21	13	23.21
Rio Blanco	1	1.79	14	25.00
Routt	42	75.00	56	100.00

### Estimated Harvest by Strata

stgstrata	Estimated Hunters	SE(Hunters)	LCI (Hunters)	UCI (Hunters)	Estimated Days Hunted	SE(Days Hunted)	LCI(Days Hunted)	UCI(Days Hunted)
Somewhat likely	40	7	27	53	188	44	102	102
Very likely	45	3	39	52	129	15	99	99
Total	85	7	71	100	317	47	226	226

  

UCI(Days Hunted)	Estimated Harvest	SE(Harvest)	LCI (Harvest)	UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
275	52	15	23	82	2	2	-1	5
158	96	12	72	119	0	0	0	0
408	148	19	110	186	2	2	-1	5

### Estimated Harvest by Counties

County	Estimated Hunters	SE(Hunters)	LCI (Hunters)	UCI (Hunters)	Estimated Days Hunted	SE(Days Hunted)	LCI(Days Hunted)	UCI(Days Hunted)
Moffat	21	4	14	29	66	17	33	99
Rio Blanco	1	1	0	2	4	2	0	7
Routt	63	6	50	75	247	41	168	327
State Total	85	7	71	100	317	47	226	408

  

Estimated Harvest	SE(Harvest)	LCI (Harvest)	UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
15	7	2	28	0	0	0	0
0	0	0	0	0	0	0	0
133	18	98	169	2	2	-1	5
148	19	110	186	2	2	-1	5

**Estimated 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)		
North Routt	42	5	31	52	200	40	123	278
South Routt	21	4	14	28	47	9	30	64
Moffat	21	4	14	29	66	17	33	99
Rio Blanco	1	1	0	2	4	2	0	7
<b>State Total</b>	<b>85</b>	<b>7</b>	<b>71</b>	<b>100</b>	<b>317</b>	<b>47</b>	<b>226</b>	<b>408</b>

Estimated Harvest	SE(Harvest)	LCI (Harvest)	UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
30	6	18	42	0	0	0	0
15	7	2	28	0	0	0	0
0	0	0	0	0	0	0	0
<b>148</b>	<b>19</b>	<b>110</b>	<b>186</b>	<b>2</b>	<b>2</b>	<b>-1</b>	<b>5</b>