

## Sage Grouse Harvest Report 2004

A post-season harvest survey was conducted by phone.

A stratified random sample of 2500 sage grouse hunters was drawn from among HIP participants. 1344 hunters were surveyed (54% response rate).

Of those surveyed, 132 or 10% reported they had hunted sage grouse. The number of birds harvested ranged from 0 (46 respondents) to 8 (1 respondent). The most frequent number of birds reported harvested was 2 (34 respondents).

77% reported being satisfied with their sage grouse hunting experience and 61% reported no crowding.

Harvest results are provided by strata, county and population.

***Statewide harvest estimate = 1748 ± 361 (1388-2108).***

### **Comparison with 2003 survey results:**

Harvest was estimated to be higher than in 2003 when an estimated 433 ± 73 birds were harvested. Hunter numbers were also higher with an estimated 991 ± 133 in 2004 compared to an estimated 304 ± 33 in 2003. Days hunted in 2004 were estimated at 2262 ± 390 as compared to 689 ± 94 in 2003. Differences in harvest, days hunted, and hunter numbers are all statistically significant at the 95% confidence level.

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

Summary tables provide estimates of hunter numbers, days in the field and sage grouse harvest by strata, 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 sage grouse hunters in Moffat County is 301 plus or minus 1.96(SE) or 1.96(42)=82. The range of the estimate is 218 to 383. 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.)**

## Sage Grouse

### Harvest 2004

sgstrata	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Will not hunt	2	0.15	2	0.15
Somewhat likely	1072	79.76	1074	79.91
Very likely	270	20.09	1344	100.00

### Hunted during Season?

hunt	Frequency	Percent	Cumulative Frequency	Cumulative Percent
yes	132	9.82	132	9.82
no	1212	90.18	1344	100.00

### Table of sgstrata by Hunt

sgstrata	hunt(Hunted during season?)		
	yes	no	Total
Frequency			
Percent			
Row Pct			
Col Pct			
Will not hunt	0	2	2
	0.00	0.15	0.15
	0.00	100.00	
	0.00	0.17	
Somewhat likely	35	1037	1072
	2.60	77.16	79.76
	3.26	96.74	
	26.52	85.56	
Very likely	97	173	270
	7.22	12.87	20.09
	35.93	64.07	
	73.48	14.27	
Total	132	1212	1344
	9.82	90.18	100.00

### Satisfied with Hunt?

satisfy	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Strongly Dis.	6	4.55	6	4.55
Somewhat Dis.	8	6.06	14	10.61
Slightly Dis.	5	3.79	19	14.39
Neutral	11	8.33	30	22.73
Slightly Sat.	4	3.03	34	25.76
Somewhat Sat.	35	26.52	69	52.27
Strongly Sat.	63	47.73	132	100.00

### Feel Crowded?

crowded	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Not at all	81	61.36	81	61.36
Slightly	27	20.45	108	81.82
Moderately	19	14.39	127	96.21
Extremely	5	3.79	132	100.00

### Total Harvest

totharv	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	46	34.85	46	34.85
1	17	12.88	63	47.73
2	33	25.00	96	72.73
3	9	6.82	105	79.55
4	20	15.15	125	94.70
5	2	1.52	127	96.21
6	4	3.03	131	99.24
8	1	0.76	132	100.00

Counties hunted in sample -- some are not legal!

**County hunted**

county	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Grand	12	8.70	12	8.70
Jackson	70	50.72	82	59.42
Moffat	41	29.71	123	89.13
Rio Blanco	8	5.80	131	94.93
<b>Routt</b>	<b>5</b>	<b>3.62</b>	<b>136</b>	<b>98.55</b>
Summit	2	1.45	138	100.00

**Harvest by Strata**

sgstrata	Estimated Hunters	SE(Hunters)	LCI (Hunters)	UCI (Hunters)
Somewhat likely	247	38	173	322
Very likely	743	56	633	854
Total	991	68	857	1124

  

Estimated Days Hunted	SE(Days Hunted)	LCI(Days Hunted)	UCI(Days Hunted)	Estimated Harvest	SE(Harvest)
622	121	384	859	353	80
1640	158	1331	1949	1395	165
2262	199	1872	2651	1748	184

  

LCI (Harvest)	UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
196	510	14	9	-4	32
1071	1719	84	35	15	154
1388	2108	98	37	27	170

## Harvest by Counties

County	Estimated Hunters	SE(Hunters)	LCI (Hunters)	UCI (Hunters)	Estimated Days Hunted
Grand	90	24	43	137	270
Jackson	518	54	413	623	1069
Moffat	301	42	218	383	652
Rio Blanco	44	17	11	77	110
Routt	23	12	-1	47	138
Summit	15	10	-4	34	22
<b>State Total</b>	<b>991</b>	<b>68</b>	<b>857</b>	<b>1124</b>	<b>2262</b>

SE(Days Hunted)	LCI(Days Hunted)	UCI(Days Hunted)	Estimated Harvest	SE(Harvest)	LCI (Harvest)
89	95	444	152	52	50
131	811	1327	965	133	704
106	444	860	471	104	267
41	29	191	75	47	-17
68	4	272	77	59	-39
16	-8	53	8	7	-6
<b>199</b>	<b>1872</b>	<b>2651</b>	<b>1748</b>	<b>184</b>	<b>1388</b>

UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
254	15	14	-13	43
1225	53	31	-8	114
676	23	12	-1	47
168	7	7	-6	20
192	0	0	0	0
22	0	0	0	0
<b>2108</b>	<b>98</b>	<b>37</b>	<b>27</b>	<b>170</b>

## Harvest by Population

1=North Park, 2=Gunnison (closed), 3=Moffat County West  
 4=Moffat County East, 5=Middle Park, 6=Yampa (closed)  
 7=Cold Springs, 8=Blue Mountain, 9=Eagle (closed)  
 10=Piceance, 15=Glade Park/Pinyon Mesa (closed), 16=Dove Creek (closed)  
 17=Dry Creek/Miramonte (closed), 18=Crawford (closed)

Population	Estimated Hunters	SE(Hunters)	LCI (Hunters)	UCI (Hunters)
North Park	518	54	413	623
Moffat West	37	15	7	66
Moffat East	151	31	91	212
Middle Park	105	26	54	155
Cold Springs	68	21	27	109
Blue Mountain	97	25	48	145
Piceance (closed)	15	10	-4	34
<b>State Total</b>	<b>991</b>	<b>68</b>	<b>857</b>	<b>1124</b>

Estimated Days Hunted	SE(Days Hunted)	LCI(Days Hunted)	UCI(Days Hunted)	Estimated Harvest	SE(Harvest)
1069	131	811	1327	965	133
101	41	21	181	51	34
418	106	211	625	244	84
292	90	115	469	160	52
159	51	60	259	151	63
179	51	78	279	162	65
44	22	2	87	15	14
<b>2262</b>	<b>199</b>	<b>1872</b>	<b>2651</b>	<b>1748</b>	<b>184</b>

LCI (Harvest)	UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
704	1225	53	31	-8	114
-15	118	0	0	0	0
79	409	15	10	-4	35
57	262	15	14	-13	43
27	275	8	7	-6	22
34	290	7	7	-6	20
-13	43	0	0	0	0
<b>1388</b>	<b>2108</b>	<b>98</b>	<b>37</b>	<b>27</b>	<b>170</b>