Sage Grouse Harvest Report 2003

A post-season harvest survey was conducted by phone.

A stratified random sample of 3999 sage grouse hunters was drawn from among HIP participants. 2217 hunters were contacted (55% response rate).

Of those surveyed, 163 or 7% reported they had hunted sage grouse. The number of birds harvested ranged from 0 (79 respondents) to 8 (1 respondent). The most frequent number of birds reported harvested was 2 (29 respondents).

71% reported being satisfied with their sage grouse hunting experience and 65% reported no crowding.

Harvest results are provided by strata, county and population.

Statewide harvest estimate = 433 <u>+</u> 73 (360-506).

Comparison with 2002 survey results:

Harvest was estimated to be higher than in 2002 when an estimated 301 ± 57 birds were harvested. Hunter numbers were also higher with an estimated 304 ± 33 in 2003 compared to an estimated 257 ± 29 in 2002. Days hunted in 2003 were estimated at 689 ± 94 as compared to 577 ± 86 in 2002. Differences in harvest are not statistically significant at the 95% confidence level, whereas differences in days hunted and hunter numbers are.

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 113 plus or minus 1.96(SE) or 1.96(10)=20. The range of the estimate is 93 to 133. 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 2003

sgstrata	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Will not hunt	16	0.72	16	0.72
Somewhat likely	1842	83.09	1858	83.81
Very likely	359	16.19	2217	100.00

Hunted During Season?

			Cumulative	Cumulative
hunt	Frequency	Percent	Frequency	Percent
yes	163	7.33	163	7.33
no	2061	92.67	2224	100.00

Table of sgstrata by Hunt

sgstrata	hunt(Hunted during season?			
Frequency Percent Row Pct				
Col Pct	yes +	no +	Total	
Will not hunt	0 0.00 0.00 0.00	16 0.72 100.00 0.78	16 0.72	
Somewhat likely	76 3.43 4.13 48.72	1766 79.66 95.87 85.69	1842 83.09	
Very likely	80 3.61 22.28 51.28	279 12.58 77.72 13.54	- 359 16.19	
Total	156 7.04	2061 92.96	2217 100.00	

Frequency Missing = 8

Satisfied with Hunt?

satisfy	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Strongly Dis.	14	8.64	14	8.64
Somewhat Dis.	10	6.17	24	14.81
Slightly Dis.	8	4.94	32	19.75
Neutral	14	8.64	46	28.40
Slightly Sat.	13	8.02	59	36.42
Somewhat Sat.	36	22.22	95	58.64
Strongly Sat.	67	41.36	162	100.00

Feel Crowded?

crowded	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Not at all	105	64.81	105	64.81
Slightly	33	20.37	138	85.19
Moderately	15	9.26	153	94.44
Extremely	9	5.56	162	100.00

Possibly Hunting Other Species

	other	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No		2	100.00	2	100.00

Total Harvest

totharv	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	79	48.47	79	48.47
1	17	10.43	96	58.90
2	29	17.79	125	76.69
3	18	11.04	143	87.73
4	13	7.98	156	95.71
5	1	0.61	157	96.32
б	5	3.07	162	99.39
8	1	0.61	163	100.00

County Hunted

county	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Grand	23	13.37	23	13.37
Gunnison	1	0.58	24	13.95
Jackson	71	41.28	95	55.23
Mesa	3	1.74	98	56.98
Moffat	61	35.47	159	92.44
Rio Blanco	4	2.33	163	94.77
Routt	2	1.16	165	95.93
Summit	6	3.49	171	99.42
Unknown	1	0.58	172	100.00

Harvest by Strata

sgstrata		imated nters S	E(Hunters)	LCI (Hunters)	UCI (Hunters)
Systiala	Hui		E(Huncers)	(Huncers)	(huncers)
Somewhat lik	xely 1	48	12	125	171
Very likely	- 1	L57	12	133	180
Total	3	304	17	272	337
Estimated					
Days	SE(Days	LCI(Days	UCI(Days	Estimated	
Hunted	Hunted)	Hunted)	Hunted)	Harvest	SE(Harvest)
319	34	253	385	169	22
370	34	304	436	264	30
689	48	595	782	433	37
LCI	UCI	Not	SE(Not	LCI(Not.	UCI(Not.
(Harvest)	(Harvest)	Retriev	ed Ret.)	Ret.)	Ret.)
125	213	8	3	1	14
205	323	23	13	-1	48
360	507	31	13	6	57

Estimated					
	Estimated		LCI	UCI	Days
County	Hunters	SE(Hunters)	(Hunters)	(Hunters)	Hunted
		_			
Grand	35	6	24	46	80
Gunnison	2	1	-1	5	27
Jackson	133	11	111	155	285
Mesa	4	2	0	8	б
Moffat	113	10	93	133	252
Rio Blanco	8	3	2	13	10
Routt	2	1	-1	5	б
Summit	б	2	1	10	20
Unknown	2	1	-1	5	4
State Total	304	17	272	337	689

Harvest by Counties

SE(Days Hunted)	LCI(Days Hunted)	UCI(Days Hunted)	Estimated Harvest	SE(Harvest)	LCI (Harvest)
	5.0	100	2.2	0	1 5
14	52	108	33	9	15
19	-10	64	6	4	-2
28	229	341	246	29	190
2	1	10	4	2	0
27	199	304	140	22	98
4	3	17	2	1	-1
3	-0	12	2	1	-1
6	8	31	0	0	0
3	-1	9	0	0	0
48	595	782	433	37	360

UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
(naivest)	Reciteved	Ret.)	Ret.)	Ret.)
51	4	3	-1	9
14	0	0	0	0
302	8	3	2	13
8	0	0	0	0
183	20	12	-5	44
5	0	0	0	0
5	0	0	0	0
0	0	0	0	0
0	0	0	0	0
507	31	13	6	57

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)

	Estimated		LCI
Population	Hunters	SE(Hunters)	(Hunters)
Unknown	2	1	-1
North Park	133	11	111
Gunnison (closed)	2	1	-1
Moffat West	12	3	5
Moffat East	62	8	47
Middle Park	41	б	29
Yampa (closed)	0	0	0
Cold Springs	12	3	5
Blue Mountain	20	4	11
Piceance (closed)	6	2	1
Glade Park/Pinyon Mesa (closed)	4	2	0
State Total	304	17	272

	Estimated					
UCI	Days	SE(Days	LCI(Days	UCI(Days	Estimated	
(Hunters)	Hunted	Hunted)	Hunted)	Hunted)	Harvest	SE(Harvest)
5	4	3	-1	9	0	0
155	285	28	229	341	246	29
5	31	19	-6	69	б	4
18	27	9	10	45	23	12
77	152	22	109	195	68	13
53	96	16	64	127	33	9
0	4	3	-1	9	0	0
18	18	5	7	28	20	8
28	31	7	17	46	20	7
10	12	5	2	22	4	3
8	б	2	1	10	4	2
337	689	48	595	782	433	37

LCI (Harvest)	UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
0	0	0	0	0	0
190	302	8	3	2	13
-2	14	0	0	0	0
1	46	0	0	0	0
42	94	20	12	-5	44
15	51	4	3	-1	9
0	0	0	0	0	0
3	36	0	0	0	0
б	33	0	0	0	0

-1	9	0	0	0	0
0	8	0	0	0	0
360	507	31	13	6	57