

2004 Sharp-tailed Grouse Harvest Report

A post-season harvest survey was conducted by phone.

A stratified random sample of 2500 sharp-tailed grouse hunters was drawn from among HIP participants. 1375 (55% response rate) hunters were contacted.

Of those surveyed, 74 or 5% reported they had hunted sharptails. The number of birds harvested ranged from 0 (24 respondents) to 34 (1 respondent), with 16 hunters reporting a harvest of 2 birds.

74% reported being satisfied with their sharp-tailed grouse hunting experience and 62% reported no crowding.

Statewide harvest was estimated at 1096 ± 408.

Comparison with 2003 survey results:

Harvest was up from 2003 when an estimated 336 ± 77 birds were harvested. Hunter numbers increased to 350 ± 70 from 166 ± 26 in 2003. Days hunted were also higher with an estimated 1254 ± 390 compared to 537 ± 118 in 2003. 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 84 plus or minus 1.96(SE) or 1.96(19)=37. The range of the estimate is 47 to 121. 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.)

Sharp-Tailed Grouse Harvest 2004

| stgstrata | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|-----------------|-----------|---------|-------------------------|-----------------------|
| Will not hunt | 107 | 7.78 | 107 | 7.78 |
| Somewhat likely | 961 | 69.89 | 1068 | 77.67 |
| Very likely | 307 | 22.33 | 1375 | 100.00 |

Hunted during Season?

| hunt | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|------|-----------|---------|-------------------------|-----------------------|
| yes | 74 | 5.38 | 74 | 5.38 |
| no | 1301 | 94.62 | 1375 | 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 | 107 | | 107 |
| | 0.00 | 7.78 | | 7.78 |
| | 0.00 | 100.00 | | |
| | 0.00 | 8.22 | | |
| Somewhat likely | 17 | 944 | | 961 |
| | 1.24 | 68.65 | | 69.89 |
| | 1.77 | 98.23 | | |
| | 22.97 | 72.56 | | |
| Very likely | 57 | 250 | | 307 |
| | 4.15 | 18.18 | | 22.33 |
| | 18.57 | 81.43 | | |
| | 77.03 | 19.22 | | |
| Total | 74 | 1301 | | 1375 |
| | 5.38 | 94.62 | | 100.00 |

Satisfied with Hunt?

| satisfy | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|---------------|-----------|---------|-------------------------|-----------------------|
| Strongly Dis. | 2 | 2.70 | 2 | 2.70 |
| Somewhat Dis. | 3 | 4.05 | 5 | 6.76 |
| Slightly Dis. | 4 | 5.41 | 9 | 12.16 |
| Neutral | 10 | 13.51 | 19 | 25.68 |
| Slightly Sat. | 8 | 10.81 | 27 | 36.49 |
| Somewhat Sat. | 13 | 17.57 | 40 | 54.05 |
| Strongly Sat. | 34 | 45.95 | 74 | 100.00 |

Feel Crowded?

| crowded | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|------------|-----------|---------|-------------------------|-----------------------|
| Not at all | 46 | 62.16 | 46 | 62.16 |
| Slightly | 15 | 20.27 | 61 | 82.43 |
| Moderately | 12 | 16.22 | 73 | 98.65 |
| Extremely | 1 | 1.35 | 74 | 100.00 |

Total Harvest

| totharv | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|---------|-----------|---------|-------------------------|-----------------------|
| 0 | 24 | 32.43 | 24 | 32.43 |
| 1 | 6 | 8.11 | 30 | 40.54 |
| 2 | 16 | 21.62 | 46 | 62.16 |
| 3 | 4 | 5.41 | 50 | 67.57 |
| 4 | 11 | 14.86 | 61 | 82.43 |
| 5 | 2 | 2.70 | 63 | 85.14 |
| 6 | 4 | 5.41 | 67 | 90.54 |
| 7 | 1 | 1.35 | 68 | 91.89 |
| 11 | 1 | 1.35 | 69 | 93.24 |
| 13 | 1 | 1.35 | 70 | 94.59 |
| 14 | 1 | 1.35 | 71 | 95.95 |
| 15 | 1 | 1.35 | 72 | 97.30 |
| 22 | 1 | 1.35 | 73 | 98.65 |
| 34 | 1 | 1.35 | 74 | 100.00 |

Counties hunted in sample -- some portions of counties are not legal!

County Hunted

| county | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
|------------|-----------|---------|-------------------------|-----------------------|
| Moffat | 17 | 22.08 | 17 | 22.08 |
| Rio Blanco | 2 | 2.60 | 19 | 24.68 |
| Routt | 58 | 75.32 | 77 | 100.00 |

| stgstrata | Estimated Hunters | SE(Hunters) | LCI (Hunters) | UCI (Hunters) |
|------------------|------------------------------|--------------------|--------------------------|--------------------------|
| Somewhat likely | 123 | 27 | 69 | 177 |
| Very likely | 227 | 23 | 181 | 273 |
| Total | 350 | 36 | 279 | 421 |

| Estimated Days Hunted | SE(Days Hunted) | LCI(Days Hunted) | UCI(Days Hunted) | Estimated Harvest | SE(Harvest) |
|--------------------------------------|----------------------------|-----------------------------|-----------------------------|------------------------------|--------------------|
| 441 | 159 | 130 | 753 | 275 | 119 |
| 813 | 119 | 579 | 1047 | 821 | 170 |
| 1254 | 199 | 864 | 1644 | 1096 | 208 |

| LCI (Harvest) | UCI (Harvest) | Not Retrieved | SE(Not Ret.) | LCI(Not. Ret.) | UCI(Not. Ret.) |
|--------------------------|--------------------------|--------------------------|-------------------------|---------------------------|---------------------------|
| 41 | 508 | 29 | 16 | -3 | 61 |
| 488 | 1154 | 20 | 11 | -2 | 42 |
| 689 | 1502 | 49 | 20 | 10 | 88 |

Harvest by Counties

| Estimated | | | | | |
|--------------------|----------------------|-------------|------------------|------------------|----------------|
| County | Estimated Hunters | SE(Hunters) | LCI (Hunters) | UCI (Hunters) | Days Hunted |
| Moffat | 84 | 19 | 47 | 121 | 364 |
| Rio Blanco | 8 | 5 | -2 | 17 | 56 |
| Routt | 258 | 31 | 197 | 319 | 834 |
| State Total | 350 | 36 | 279 | 421 | 1254 |

| SE(Days Hunted) | LCI(Days Hunted) | UCI(Days Hunted) | Estimated Harvest | SE(Harvest) | LCI (Harvest) |
|--------------------|---------------------|---------------------|----------------------|-------------|------------------|
| 148 | 74 | 653 | 254 | 116 | 26 |
| 45 | -32 | 144 | 20 | 17 | -14 |
| 124 | 592 | 1077 | 822 | 169 | 491 |
| 199 | 864 | 1644 | 1096 | 208 | 689 |

| UCI (Harvest) | Not Retrieved | SE(Not Ret.) | LCI(Not. Ret.) | UCI(Not. Ret.) |
|------------------|------------------|-----------------|-------------------|-------------------|
| 482 | 7 | 7 | -6 | 20 |
| 54 | 0 | 0 | 0 | 0 |
| 1153 | 42 | 19 | 5 | 79 |
| 1502 | 49 | 20 | 10 | 88 |

Harvest by Population

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

| Estimated Population | Estimated Hunters | SE(Hunters) | LCI (Hunters) | UCI (Hunters) | Days Hunted |
|---------------------------------|------------------------------|--------------------|--------------------------|--------------------------|------------------------|
| North Routt | 126 | 23 | 81 | 171 | 395 |
| South Routt | 136 | 22 | 92 | 179 | 456 |
| Moffat | 80 | 19 | 43 | 117 | 348 |
| Rio Blanco | 8 | 5 | -2 | 17 | 56 |
| State Total | 350 | 36 | 279 | 421 | 1254 |

| SE(Days Hunted) | LCI(Days Hunted) | UCI(Days Hunted) | Estimated Harvest | SE(Harvest) | LCI (Harvest) |
|----------------------------|-----------------------------|-----------------------------|------------------------------|--------------------|--------------------------|
| 79 | 240 | 550 | 321 | 74 | 176 |
| 99 | 262 | 649 | 501 | 154 | 200 |
| 147 | 59 | 636 | 254 | 116 | 26 |
| 45 | -32 | 144 | 20 | 17 | -14 |
| 199 | 864 | 1644 | 1096 | 208 | 689 |

| UCI (Harvest) | Not Retrieved | SE(Not Ret.) | LCI(Not. Ret.) | UCI(Not. Ret.) |
|--------------------------|--------------------------|-------------------------|---------------------------|---------------------------|
| 466 | 23 | 13 | -2 | 48 |
| 802 | 18 | 14 | -9 | 46 |
| 482 | 7 | 7 | -6 | 20 |
| 54 | 0 | 0 | 0 | 0 |
| 1502 | 49 | 20 | 10 | 88 |