

Band-tailed Pigeon (btp) Harvest 2002

A post-season harvest survey was conducted by phone.

A stratified random sample of 1500 btp hunters was drawn from among HIP participants. As part of the HIP process, migratory bird hunters are asked whether they hunted btp in the previous season (2001). We then assume that they had obtained a permit to hunt btp in 2001. They are also given the opportunity to obtain a permit for the year 2002. In the last HIP cycle (4/1/02 through 3/31/03), 5156 hunters obtained a permit for 2002.

The sample is stratified to focus more heavily on repeat btp hunters or those who hunted in 2001 and obtained a permit for 2002. Hunters who did **not** hunt btp in 2001 but did obtain a 2002 permit and those who did not obtain a 2002 permit were sampled less heavily. This is the basis for the variable Δ btpstrat and stratified results.

If btpstrat =1 then no permit was obtained.

If btpstrat =2 then a permit was obtained for 2002 but did not hunt in 2001.

If btpstrat= 3 then a permit was obtained for 2002 and did hunt in 2001.

1031 hunters were contacted (69% response rate).

Of those surveyed, 55 or 5% reported hunting btp (0 hunters when btpstrat=1, 6 hunters when btpstrat=2 and 49 hunters when btpstrat=3). The number of birds harvested ranged from 0 to 15.

61% reported being satisfied with their btp hunting experience.

Harvest results are provided by strata and by county. Also included is data estimating hunter numbers by county and information on the number of pigeons observed by county, dates hunted, pigeons bagged for each Δ bag period (weekends vs week days) and habitat hunted.

Statewide harvest estimate = 416 ± 626 (-210 -888).

Statewide hunter number estimate= 211 ± 78 (133 - 289).

(Compared with the 2001 estimate of 231 ± 102 birds harvested and 275 ± 164 hunters.)

02 Band-tailed Pigeon Harvest Survey Results Band-tail Strata versus Whether Hunted

Table of btpstrat by hunt02

btpstrat	hunt02(Hunted Pigeons)		
	Yes	No	Total
Frequency			
Percent			
Row Pct			
Col Pct			
-----+-----+-----+-----			
Strata 1	0	57	57
	0.00	5.53	5.53
	0.00	100.00	
	0.00	5.84	
-----+-----+-----+-----			
Strata 2	6	195	201
	0.58	18.91	19.50
	2.99	97.01	
	10.91	19.98	
-----+-----+-----+-----			
Strata 3	49	724	773
	4.75	70.22	74.98
	6.34	93.66	
	89.09	74.18	
-----+-----+-----+-----			
Total	55	976	1031
	5.33	94.67	100.00

Table of btpstrat by dayshunt

btpstrat		dayshunt(Number of days hunted)						
Frequency								
Percent								
Row Pct								
Col Pct	0	1	2	3	4	5	Total	
Strata 1	57	0	0	0	0	0	57	
	5.53	0.00	0.00	0.00	0.00	0.00	5.53	
	100.00	0.00	0.00	0.00	0.00	0.00		
	5.84	0.00	0.00	0.00	0.00	0.00		
Strata 2	195	2	2	2	0	0	201	
	18.91	0.19	0.19	0.19	0.00	0.00	19.50	
	97.01	1.00	1.00	1.00	0.00	0.00		
	19.98	14.29	16.67	18.18	0.00	0.00		
Strata 3	724	12	10	9	2	4	773	
	70.22	1.16	0.97	0.87	0.19	0.39	74.98	
	93.66	1.55	1.29	1.16	0.26	0.52		
	74.18	85.71	83.33	81.82	100.00	100.00		
Total	976	14	12	11	2	4	1031	
	94.67	1.36	1.16	1.07	0.19	0.39	100.00	

(Continued)

btpstrat		dayshunt(Number of days hunted)						
Frequency								
Percent								
Row Pct								
Col Pct	6	7	10	14	15	21	Total	
Strata 1	0	0	0	0	0	0	57	
	0.00	0.00	0.00	0.00	0.00	0.00	5.53	
	0.00	0.00	0.00	0.00	0.00	0.00		
	0.00	0.00	0.00	0.00	0.00	0.00		
Strata 2	0	0	0	0	0	0	201	
	0.00	0.00	0.00	0.00	0.00	0.00	19.50	
	0.00	0.00	0.00	0.00	0.00	0.00		
	0.00	0.00	0.00	0.00	0.00	0.00		
Strata 3	6	2	1	1	1	1	773	
	0.58	0.19	0.10	0.10	0.10	0.10	74.98	
	0.78	0.26	0.13	0.13	0.13	0.13		
	100.00	100.00	100.00	100.00	100.00	100.00		
Total	6	2	1	1	1	1	1031	
	0.58	0.19	0.10	0.10	0.10	0.10	100.00	

BTP Strata versus Other Variables

btpstrat	Number of days hunted	SE(Days Hunted)	LCI(Days Hunted)	UCI(Days Hunted)
Strata 1	0	0	0	0
Strata 2	196	83	34	358
Strata 3	462	68	328	596
State Total	658	107	447	868

btpstrat	Birds bagged	SE(Bagged)	LCI (Bagged)	UCI (Bagged)
Strata 1	0	0	0	0
Strata 2	278	239	-191	747
Strata 3	138	26	88	189
State Total	416	241	-56	888

btpstrat	Birds lost	SE(Lost)	LCI (Lost)	UCI (Lost)
Strata 1	0	0	0	0
Strata 2	0	0	0	0
Strata 3	12	6	-1	24
State Total	12	6	-1	24

Dates Hunted

datehunt	Frequency	Percent	Cumulative Frequency	Cumulative Percent
01SEP02	15	20.00	15	20.00
02SEP02	10	13.33	25	33.33
03SEP02	4	5.33	29	38.67
04SEP02	3	4.00	32	42.67
05SEP02	2	2.67	34	45.33
06SEP02	3	4.00	37	49.33
07SEP02	6	8.00	43	57.33
08SEP02	5	6.67	48	64.00
09SEP02	2	2.67	50	66.67
10SEP02	2	2.67	52	69.33
11SEP02	1	1.33	53	70.67
12SEP02	2	2.67	55	73.33
13SEP02	3	4.00	58	77.33
14SEP02	3	4.00	61	81.33
15SEP02	2	2.67	63	84.00
16SEP02	2	2.67	65	86.67
17SEP02	3	4.00	68	90.67
18SEP02	2	2.67	70	93.33
19SEP02	1	1.33	71	94.67
20SEP02	1	1.33	72	96.00
21SEP02	2	2.67	74	98.67
29SEP02	1	1.33	75	100.00

Dates Hunted By Bag Period (Week days vs weekends)

Variable	Label	Sum	Minimum	Maximum
bagper1	Bagged Sep 1	18.0000000	0	5.0000000
bagper2	Bagged Sep 2-6	12.0000000	0	3.0000000
bagper3	Bagged Sep 7-8	8.0000000	1.0000000	2.0000000
bagper4	Bagged Sep 9-13	.	.	.
bagper5	Bagged Sep 14-15	4.0000000	1.0000000	2.0000000
bagper6	Bagged Sep 16-20	7.0000000	2.0000000	5.0000000
bagper7	Bagged Sep 21-22	7.0000000	2.0000000	3.0000000
bagper8	Bagged Sep 23-27	.	.	.
bagper9	Bagged Sep 28-29	5.0000000	5.0000000	5.0000000
bagper10	Bagged Sep 30	.	.	.

Hunters by County

County	Number of Hunters	SE(Hunters)	95% LCI	95% UCI
Archuleta	7	3	1	13
Boulder	7	3	1	13
Clear Creek	2	2	-1	6
Custer	7	3	1	13
Delta	19	16	-12	50
Dolores	5	2	-0	9
Douglas	16	16	-15	47
Eagle	16	16	-15	47
El Paso	5	2	-0	9
Fremont	5	2	-0	9
Garfield	7	3	1	13
Grand	2	2	-1	6
Gunnison	19	16	-12	50
Huerfano	2	2	-1	6
La Plata	21	16	-10	52
Larimer	14	4	6	22
Las Animas	2	2	-1	6
Mineral	2	2	-1	6
Montezuma	2	2	-1	6
Montrose	12	4	4	19
Park	7	3	1	13
Pitkin	2	2	-1	6
Pueblo	26	16	-6	57
Teller	2	2	-1	6
Unknown	2	2	-1	6
State Total	211	40	133	289

Summary by Counties

County	Hunters	SE(Hunters)	LCI (Hunters)	UCI (Hunters)	Days Hunted
Archuleta	7	3	1	13	28
Boulder	7	3	1	13	9
Clear Creek	2	2	-1	6	16
Custer	7	3	1	13	16
Delta	19	16	-12	50	39
Dolores	5	2	-0	9	49
Douglas	16	16	-15	47	16
Eagle	16	16	-15	47	16
El Paso	5	2	-0	9	37
Fremont	5	2	-0	9	5
Garfield	7	3	1	13	16
Grand	2	2	-1	6	9
Gunnison	19	16	-12	50	46

SE(Days Hunted)	LCI(Days Hunted)	UCI(Days Hunted)	Estimated Harvest	SE(Harvest)	LCI (Harvest)
13	2	53	0	0	0
4	1	18	26	11	3
12	-8	40	9	7	-4
8	1	31	9	5	-0
32	-23	102	33	31	-29
28	-7	104	0	0	0
16	-15	47	244	236	-219
16	-15	47	0	0	0
25	-11	86	5	4	-2
2	-0	9	9	5	-0
8	1	31	9	5	-0
7	-4	23	0	0	0
33	-19	111	0	0	0

UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
0	0	0	0	0
48	7	5	-3	17
23	5	4	-2	12
19	0	0	0	0
94	0	0	0	0
0	0	0	0	0
707	0	0	0	0
0	0	0	0	0
12	0	0	0	0
19	0	0	0	0
19	0	0	0	0
0	0	0	0	0
0	0	0	0	0

County	Hunters	SE(Hunters)	LCI (Hunters)	UCI (Hunters)	Days Hunted
Huerfano	2	2	-1	6	7
La Plata	21	16	-10	52	74

Larimer	14	4	6	22	39
Las Animas	2	2	-1	6	23
Mineral	2	2	-1	6	5
Montezuma	2	2	-1	6	14
Montrose	12	4	4	19	30
Park	7	3	1	13	23
Pitkin	2	2	-1	6	49
Pueblo	26	16	-6	57	67
Teller	2	2	-1	6	12
Unknown	2	2	-1	6	5

SE(Days Hunted)	LCI(Days Hunted)	UCI(Days Hunted)	Estimated Harvest	SE(Harvest)	LCI (Harvest)
5	-3	17	12	9	-6
49	-22	171	14	11	-7
14	12	67	0	0	0
18	-11	58	0	0	0
4	-2	12	12	9	-6
11	-7	35	9	7	-4
12	6	54	9	7	-4
13	-2	48	12	6	-1
37	-23	121	0	0	0
48	-27	161	0	0	0
9	-6	29	2	2	-1
4	-2	12	0	0	0

UCI (Harvest)	Not Retrieved	SE(Not Ret.)	LCI(Not. Ret.)	UCI(Not. Ret.)
29	0	0	0	0
35	0	0	0	0
0	0	0	0	0
0	0	0	0	0
29	0	0	0	0
23	0	0	0	0
23	0	0	0	0
24	0	0	0	0
0	0	0	0	0
0	0	0	0	0
6	0	0	0	0
0	0	0	0	0

Habitat Types Where BT Pigeons Were Observed

Habitat	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Forest	21	43.75	21	43.75

Feedlots	8	16.67	29	60.42
Agricultural Fields	11	22.92	40	83.33
Shrubland	8	16.67	48	100.00

Hunter Satisfaction Levels

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.	4	7.27	11	20.00
Neutral	5	9.09	16	29.09
Slightly Sat.	6	10.91	22	40.00
Somewhat Sat.	11	20.00	33	60.00
Strongly Sat.	22	40.00	55	100.00

BT Pigeons Observed by County

county	N Obs	Mean	Minimum	Maximum	Sum
Archuleta	3	0.6666667	0	2.0000000	2.0000000
Boulder	3	83.3333333	50.0000000	100.0000000	250.0000000
Clear Creek	1	20.0000000	20.0000000	20.0000000	20.0000000
Custer	3	6.6666667	0	10.0000000	20.0000000
Delta	2	22.0000000	4.0000000	40.0000000	44.0000000
Dolores	2	0.5000000	0	1.0000000	1.0000000
Douglas	1	20.0000000	20.0000000	20.0000000	20.0000000
Eagle	1	0	0	0	0
El Paso	2	55.0000000	10.0000000	100.0000000	110.0000000
Fremont	2	23.5000000	12.0000000	35.0000000	47.0000000
Garfield	3	270.0000000	10.0000000	400.0000000	810.0000000
Grand	1	0	0	0	0
Gunnison	2	40.0000000	30.0000000	50.0000000	80.0000000
Huerfano	1	150.0000000	150.0000000	150.0000000	150.0000000
La Plata	3	10.0000000	0	30.0000000	30.0000000
Larimer	6	9.0000000	0	24.0000000	54.0000000
Las Animas	1	74.0000000	74.0000000	74.0000000	74.0000000
Mineral	1	60.0000000	60.0000000	60.0000000	60.0000000
Montezuma	1	25.0000000	25.0000000	25.0000000	25.0000000
Montrose	5	253.8000000	0	999.0000000	1269.00
Park	3	56.6666667	0	100.0000000	170.0000000
Pitkin	1	350.0000000	350.0000000	350.0000000	350.0000000
Pueblo	5	1.0000000	0	3.0000000	5.0000000
Teller	1	200.0000000	200.0000000	200.0000000	200.0000000
Unknown	1	4.0000000	4.0000000	4.0000000	4.0000000

Success in Observing BT Pigeons by County

Table of county by observed

county	observed(Birds Observed)						
Frequency Row Pct	0	1	2	3	4	10	Total
Archuleta	2 66.67	0 0.00	1 33.33	0 0.00	0 0.00	0 0.00	3
Boulder	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	3
Clear Creek	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1
Custer	1 33.33	0 0.00	0 0.00	0 0.00	0 0.00	2 66.67	3
Delta	0 0.00	0 0.00	0 0.00	0 0.00	1 50.00	0 0.00	2
Dolores	1 50.00	1 50.00	0 0.00	0 0.00	0 0.00	0 0.00	2
Douglas	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1
Eagle	1 100.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1
El Paso	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1 50.00	2
Total (Continued)	16	1	2	1	2	4	55

Table of county by observed

county	observed(Birds Observed)						
Frequency Row Pct	0	1	2	3	4	10	Total
Fremont	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	2
Garfield	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1 33.33	3
Grand	1 100.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1
Gunnison	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	2
Huerfano	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1
La Plata	2 66.67	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	3

Larimer	3	0	0	0	0	0	6
	50.00	0.00	0.00	0.00	0.00	0.00	
Las Animas	0	0	0	0	0	0	1
	0.00	0.00	0.00	0.00	0.00	0.00	
Mineral	0	0	0	0	0	0	1
	0.00	0.00	0.00	0.00	0.00	0.00	
Total (Continued)	16	1	2	1	2	4	55

Table of county by observed
county observed(Birds Observed)

Frequency Row Pct	0	1	2	3	4	10	Total
Montezuma	0	0	0	0	0	0	1
	0.00	0.00	0.00	0.00	0.00	0.00	
Montrose	1	0	0	0	0	0	5
	20.00	0.00	0.00	0.00	0.00	0.00	
Park	1	0	0	0	0	0	3
	33.33	0.00	0.00	0.00	0.00	0.00	
Pitkin	0	0	0	0	0	0	1
	0.00	0.00	0.00	0.00	0.00	0.00	
Pueblo	3	0	1	1	0	0	5
	60.00	0.00	20.00	20.00	0.00	0.00	
Teller	0	0	0	0	0	0	1
	0.00	0.00	0.00	0.00	0.00	0.00	
Unknown	0	0	0	0	1	0	1
	0.00	0.00	0.00	0.00	100.00	0.00	
Total (Continued)	16	1	2	1	2	4	55

Table of county by observed
county observed(Birds Observed)

Frequency Row Pct	12	15	20	24	25	30	Total
Archuleta	0	0	0	0	0	0	3
	0.00	0.00	0.00	0.00	0.00	0.00	
Boulder	0	0	0	0	0	0	3
	0.00	0.00	0.00	0.00	0.00	0.00	
Clear Creek	0	0	1	0	0	0	1
	0.00	0.00	100.00	0.00	0.00	0.00	
Custer	0	0	0	0	0	0	3

	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Delta	0	0	0	0	0	0	0	2
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Dolores	0	0	0	0	0	0	0	2
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Douglas	0	0	1	0	0	0	0	1
	0.00	0.00	100.00	0.00	0.00	0.00	0.00	
Eagle	0	0	0	0	0	0	0	1
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
El Paso	0	0	0	0	0	0	0	2
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total (Continued)	1	2	3	1	1	2		55

Table of county by observed
county observed(Birds Observed)

Frequency Row Pct	12	15	20	24	25	30	Total	
Fremont	1 50.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	2
Garfield	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	3
Grand	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1
Gunnison	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 50.00	1 50.00	2
Huerfano	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1
La Plata	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 33.33	1 33.33	3
Larimer	0 0.00	2 33.33	0 0.00	1 16.67	0 0.00	0 0.00	0 0.00	6
Las Animas	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1
Mineral	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1
Total (Continued)	1	2	3	1	1	2		55

Table of county by observed
county observed(Birds Observed)

Frequency Row Pct	12	15	20	24	25	30	Total
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Montezuma	0 0.00	0 0.00	0 0.00	0 0.00	1 100.00	0 0.00	1
Montrose	0 0.00	0 0.00	1 20.00	0 0.00	0 0.00	0 0.00	5
Park	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	3
Pitkin	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1
Pueblo	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	5
Teller	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1
Unknown	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1
Total (Continued)	1	2	3	1	1	2	55

Larimer	0	0	0	0	0	0	6
	0.00	0.00	0.00	0.00	0.00	0.00	
Las Animas	0	0	0	0	0	1	1
	0.00	0.00	0.00	0.00	0.00	100.00	
Mineral	0	0	0	1	0	0	1
	0.00	0.00	0.00	100.00	0.00	0.00	
Total (Continued)	1	1	3	1	1	1	55

Table of county by observed

county	observed(Birds Observed)						
Frequency Row Pct	35	40	50	60	70	74	Total
Montezuma	0	0	0	0	0	0	1
	0.00	0.00	0.00	0.00	0.00	0.00	
Montrose	0	0	1	0	0	0	5
	0.00	0.00	20.00	0.00	0.00	0.00	
Park	0	0	0	0	1	0	3
	0.00	0.00	0.00	0.00	33.33	0.00	
Pitkin	0	0	0	0	0	0	1
	0.00	0.00	0.00	0.00	0.00	0.00	
Pueblo	0	0	0	0	0	0	5
	0.00	0.00	0.00	0.00	0.00	0.00	
Teller	0	0	0	0	0	0	1
	0.00	0.00	0.00	0.00	0.00	0.00	
Unknown	0	0	0	0	0	0	1
	0.00	0.00	0.00	0.00	0.00	0.00	
Total (Continued)	1	1	3	1	1	1	55

Table of county by observed

county	observed(Birds Observed)						
Frequency Row Pct	100	150	200	350	400	999	Total
Archuleta	0	0	0	0	0	0	3
	0.00	0.00	0.00	0.00	0.00	0.00	
Boulder	2	0	0	0	0	0	3
	66.67	0.00	0.00	0.00	0.00	0.00	

Total 4 1 2 1 2 1 55
 (Continued)

Table of county by observed

county	observed(Birds Observed)						Total
Frequency Row Pct	100	150	200	350	400	999	
Montezuma	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1
Montrose	0 0.00	0 0.00	1 20.00	0 0.00	0 0.00	1 20.00	5
Park	1 33.33	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	3
Pitkin	0 0.00	0 0.00	0 0.00	1 100.00	0 0.00	0 0.00	1
Pueblo	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	5
Teller	0 0.00	0 0.00	1 100.00	0 0.00	0 0.00	0 0.00	1
Unknown	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1
Total	4	1	2	1	2	1	55