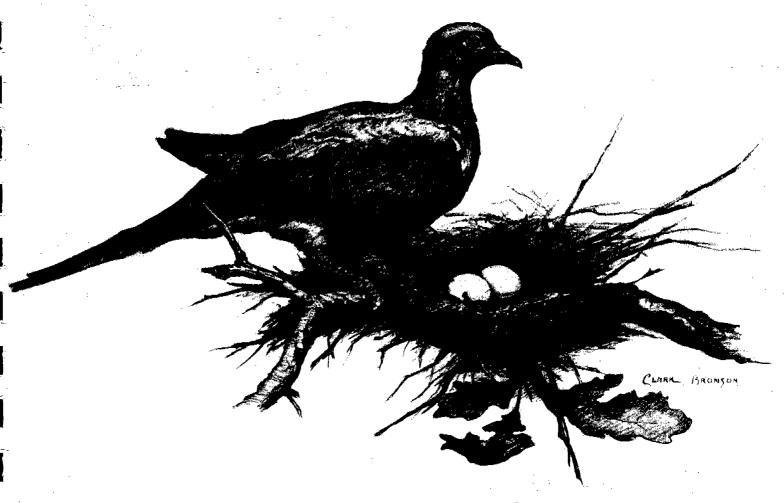
UTAH UPLAND GAME Annual Report 1972



PUBLICATION NUMBER 73, 9

Federal Aid Project W-65-R-D-21

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES
John E. Phelps, Director

UTAH

UPLAND GAME

Annual Report

1972

Prepared by:

Darrell H. Nish

Project Leader

PUBLICATION NO. 73-9

Completion Report for Federal Aid Project W-65-R-D-21

Utah State Department of Natural Resources

DIVISION OF WILDLIFE RESOURCES

John E. Phelps
Director

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JOB COMPLETION REPORT

RESEARCH PROJECT SEGMENT (Inventory)

State of <u>UTAH</u>

Project No. W-65-R-D-21

Project Title: State-wide Wildlife

Management Inventory

Job No. <u>A-4</u>

Abstract:

Job Title: State-wide Upland Game

Inventory and Management

Period Covered: January 1, 1972 to June 30, 1973

This report includes upland game inventory and harvest data relating to the 1972-73 hunting seasons. Results of annual inventory and harvest surveys and long-term trends of indexes derived by each

method are included. Data obtained in 1972 are compared to 1971

and long-term averages.

Objectives: To conduct annual inventories and determine the population trend

and annual harvest of upland game.

Procedures: Annual inventory procedures for ring-necked pheasants included

winter sex-ratio counts and summer roadside counts. The winter sex-ratio counts were conducted from December 15, 1971, through February 10, 1972, as snow cover conditions allowed. Indexes derived include hen-cock ratios and pheasants observed per 100 hours. Annual summer roadside counts (three or more per route) were conducted from July 22 - August 3 on permanently established routes. Indexes derived include pheasants per mile, young per mile, young per hen, mean brood and percent of hens with young.

Mourning dove breeding population trend was determined via the annual call-count survey. This survey is part of a nation-wide survey administered by the Bureau of Sport Fisheries and Wildlife. Call-counts are conducted over 15 permanent, 20-mile routes. One count was made on each route between May 20-30. Doves were banded during the preseason banding period (June 1 - August 20) primarily using mist nets at waterholes.

Random brood counts were conducted on chukar and Hungarian partridge, forest grouse (ruffed and blue), sage grouse, wild turkey and quail from July 10-August 5. Indexes derived for each species include mean brood size, young per 100 adults and birds observed per 100 hours effort.

Sage grouse strutting ground counts were conducted from March 15-May 15. Total cocks counted, average cocks per ground and percent change from 1971 for comparable grounds were determined on a county basis.

One Gambel's quail call-count route was run in Washington County in late April and early May. Long-period waterhole counts were completed in July and August.

Cottontail rabbit roadside counts were conducted over pre-established routes between July 15 and August 5. Indexes derived include rabbits per mile and young per 100 adults.

Two separate harvest questionnaires were mailed to an approximate 11 percent sample of eligible licensees. One, concerning the harvest of game birds excluding wild turkeys, was mailed in February, 1973 and the other concerning cottontails was mailed following the close of the season in March, 1973. Questions were asked concerning the number harvested and the number of days hunted in each county by species. Additional questions were asked of cottontail hunters concerning harvest by month and whether or not they hunted upland game birds in 1972. A separate questionnaire was also sent to all wild turkey permittees following the close of both the spring and fall seasons. Game bird and cottontail rabbit questionnaires were processed by the University of Utah Computer Center and turkey questionnaires by Game Management Section personnel. Total harvest, hunters and hunter-days afield were estimated using standard projection factors based on total eligible licensees and total questionnaire returns. Hunter success per day and per hunter was determined as well as the distribution of harvest and hunting pressure by county.

Field bag checks of upland game hunters were made at random or at checking stations during each hunting season. Indexes derived include bag per hunter (per day), bag per 100 hours, average hours per hunter-day and average hours per bird bagged.

Recommendations:

This project should be continued for the purpose of evaluating trends of upland game inventory and harvest statistics in Utah.

Approved by:

Chief, Game Management

Date <u>August 10, 1973</u>

Federal Aid Coordinator

INTRODUCTION

The objective of Utah's upland game management program is to provide recreational hunting opportunity for sportsmen within the limits of the annual harvestable surplus for each species. It is based on the knowledge that populations of upland game experience relatively high rates of annual turnover. High reproductive rates are naturally compensated for by high death rates, whether hunting is allowed or not. Annual surveys are conducted to measure the production, trend and harvest of each upland game population hunted.

This is the second edition of this annual Upland Game Report. It is a consolidation of, and annual completion report for, information compiled during all inventory and harvest surveys conducted under Federal Aid Project, W-65-R, Job A-4. Information contained herein was compiled by conservation officers, biologists and game managers of the Division of Wildlife Resources. Harvest information previously published in the annual upland game harvest book is included.

This report serves as a handbook of inventory and harvest trend data. It is designed primarily for the use of those concerned with the management of upland game in Utah. A separate section is devoted to each form of upland game hunted in Utah. Data is presented primarily in tabular form with limited narrative comment. The first page of each section provides a brief summary of population status and trend as indicated by inventory and harvest data.

During 1972, a total of 96,047 Utah sportsmen spent 670,298 days afield in pursuit of various upland game species (Appendix, Table 2). The harvest of upland game totaled 753,341. The framework for the 1972 upland game hunting seasons is shown in Appendix, Table 3. Harvest statistics by species were as follows:



Species	Hunters Afield	Total Harvest	Hunter Days	Bag/ Hunter-day	Bag/Hunter for Season
Pheasant	07. 211	240 572	227 ((0	2.72	0.05
• • •	84,311	240,573	327,669	0.73	2.85
Mourning dove	29,341	238,354	94,046	2.53	8.12
Chukar partridge	16,685	36,925	46,502	0.79	2.21
Sage grouse	13,040	15,983	22,232	0.72	1.23
Forest grouse	16,640	42,518	38,940	1.09	2.56
Quai1	7,380	16,504	21,779	0.76	2.24
Hungarian partridge	4,754	7,335	12,135	0.60	1.54
Wild turkey	•	•	,		,
spring	269	35	751	0.05	0.12
fall _	118	12	303	0.04	0.07
Cottontail	22,835	155,102	105,941	1.46	6.79

Total hunters afield for all species of upland game birds = 90,084 Hunters afield for cottontails who did not hunt game birds = 5,963 Total upland game hunters afield = 96,047

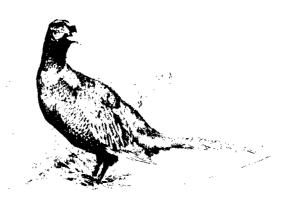
The harvest of game birds was based on a 41.9 percent return of 15,272 questionnaires and cottontail harvest data on a 35.4 percent return of 16,051 questionnaires.

Weather conditions during 1972 were not conducive to production of most upland game. During the first quarter of the year the southern half of the State experienced the driest weather in history. The warm, dry conditions stimulated an exceptionally early spring. During March, average temperatures were the warmest in history at six weather stations, the warmest since 1910 at six additional stations and the warmest since 1934 at 29 others. This warm spell was terminated the last few days of March by a killing frost which destroyed most of the States fruit crop. Below freezing minimum temperatures continued intermittently through April and early May at many weather stations. Temperature and precipitation were near normal during June and July but a cooling trend was evident later in the year with concurrent increased precipitation. Scattered rainshowers occurred over much of the State during the first week of the mourning dove season and September was the first month of the year during which all climactic divisions recorded above normal moisture. During October, record-breaking rainfall occurred in southeastern Utah with well above normal precipitation elsewhere. Snowfall occurred in some areas of northern Utah in late October. Widespread rainfall occurred during the week preceding the opening of the pheasant season with scattered rainshowers over the State on opening day. Winter set-in relatively early and severe and continued until late spring 1973, particularly in the southern half of the State.

RING-NECKED PHEASANT

SUMMARY

Indexes derived from inventory surveys during 1972 indicated a decreased breeding population, decreased reproductive success and a net decrease in the state-wide fall population level from both 1971 and the average. reduced population was primarily attributable to adverse spring weather. The greatest decline in pheasants per mile during the summer roadside count was evident in the Northern and Southern regions with a lesser decrease evident in the Northeastern region. The Central region population was similar to 1971 while the Southeastern region showed an increase. Harvest statistics for 1972 reflected the indicated decline in pheasant numbers. Hunter success and total harvest were both below 1971 and the long-term average. Total hunters also declined from 1971 to an average level; however, total hunting pressure in terms of hunter-days increased substantially. This increase was a result of a longer hunting season. The pheasants per hunter-day index was the lowest on record due to a combination of a reduced pheasant population, the longer season and inclement weather preceding the season and on opening day.



Winter Sex-ratio Counts

Results of this survey for the winter of 1971-72 and long-term trends are shown in Tables 1 and 2 of this section. Comparisons to the winter of 1970-71 and the average on a State-wide basis are as follows:

	Winter of 1971-72	Percent cl 1970-71	nange from Average
Total pheasants counted (roadside)	11,598	-20	-30
Hens per cock	4.9	+11	+22
Pheasants observed per 100 hours	1,555	- 24	-16
Total hours effort (roadside)	746	+5	-11

The 1972 breeding population level was lower than both 1971 and the average since 1968. The indicated hen-cock ratio was slightly wider than 1971 and considerably wider than the average. This is probably a reflection of the longer hunting season and greater hunter-days afield in 1972. Assuming a preseason ratio of 1.1 hens per cock, these data indicate that 78 percent of the 1971 fall rooster population was harvested during the hunting season.

Roadside Counts

A summary of pheasant roadside counts for 1972 is shown in Table 3. Long-term trends of pheasants per mile, young per mile, young per hen, percent of hens with young and mean brood size are found in Tables 4-8. Survey results for 1972 compared to 1971 and the average as follows:

		Percent	change from
	<u>1972</u>	1971	Average
Total pheasants observed	4,007	-8	-4
Total miles driven	3,016	-3	+8
Pheasants per mile	1.33	- 5	-12
Young per mile	0.99	- 7	-1 5
Young per hen	3.93	-4	-9
Percent of hens with young	72	-4	-6

Extreme drought conditions early in the year coupled with a killing frost in late March and intermittently through April and early May reduced pheasant production over most of the State's pheasant range. The lower production, combined with a reduced breeding population level, resulted in a fall population level which was lower than both 1971 and the average. Reduced pheasant densities were found in the Northern, Southern and Northeastern regions. The Central region population was indicated to be similar to 1971 while the Southeastern region showed increase.

<u>Harvest</u>

Hunter Questionnaire

Results of the hunter questionnaire for 1972 are shown in Table 9. Long-term trends of pheasants bagged per hunter-day, percent of harvest and percent of pressure (hunter-days) by county are found in Tables 10-12 and total Statewide harvest statistics in Table 13. Following is a comparison of 1972 harvest statistics to 1971 and the average:

		Percent o	hange from
	<u>1972</u>	1971	Average
Pheasant hunters	84,311	-4	-0.3
Pheasants harvested	240,573	-7	-4
Hunter-days afield	327,669	+11	+54
Pheasants per hunter	2.85	-3	-4
Pheasants per hunter-day	0.73	-1 7	-39

Total hunters decreased from 1971 but was still about average; however, the total hunter-days afield was above the previous high in 1971 and substantially higher than average. This was a reflection of the increase in season length over most of the State from a maximum of 16 to 30 days. Hunter success and total harvest declined from both 1971 and the average. The hunter success per day index was the lowest on record. An undefined proportion of the decrease in this index is attributable to the lengthened season and an increase in hunter-days afield late in the season after most of the harvestable surplus had been taken. Inclement weather immediately preceding and on the opening day of the hunting season probably reduced the harvest in some areas.

Long-term trends (1948-72) of total pheasant hunters, harvest and hunter success are shown in Figure 1.

Field Bag Checks

A summary of pheasant field bag check data is shown in Table 14. The hunter success trend determined via bag check since 1966 is found in Table 15. A comparison of 1972 data on a State-wide basis to 1971 and the average follows:

		Percentage	change from
	<u>1972</u>	1971	Average
Total hunters checked	4,445	- 5	+20
Total hours hunted	16,408	+6	+27
Pheasants per hunter (complete hunts)	0.82	-22	-23
Pheasants bagged per 100 hours	16	-24	-30
Average hours per hunter-day (complete hunts)	5.0	0	+6
Hours hunted per pheasant bagged	6.1	+27	+36

This survey substantiates the reduced hunter success indicated by the harvest questionnaire. The pheasants per hunter (per day) index from this survey (0.82) was 12 percent higher than that (0.73) indicated by the harvest questionnaire. This is probably because most bag-check data are collected on the opening weekend of the season and the influence of the longer season is minimized.

The average hunter spent 5 hours per day hunting pheasants in 1972, the same as in 1971; however, more time was required to bag each bird when compared to both 1971 and the average.

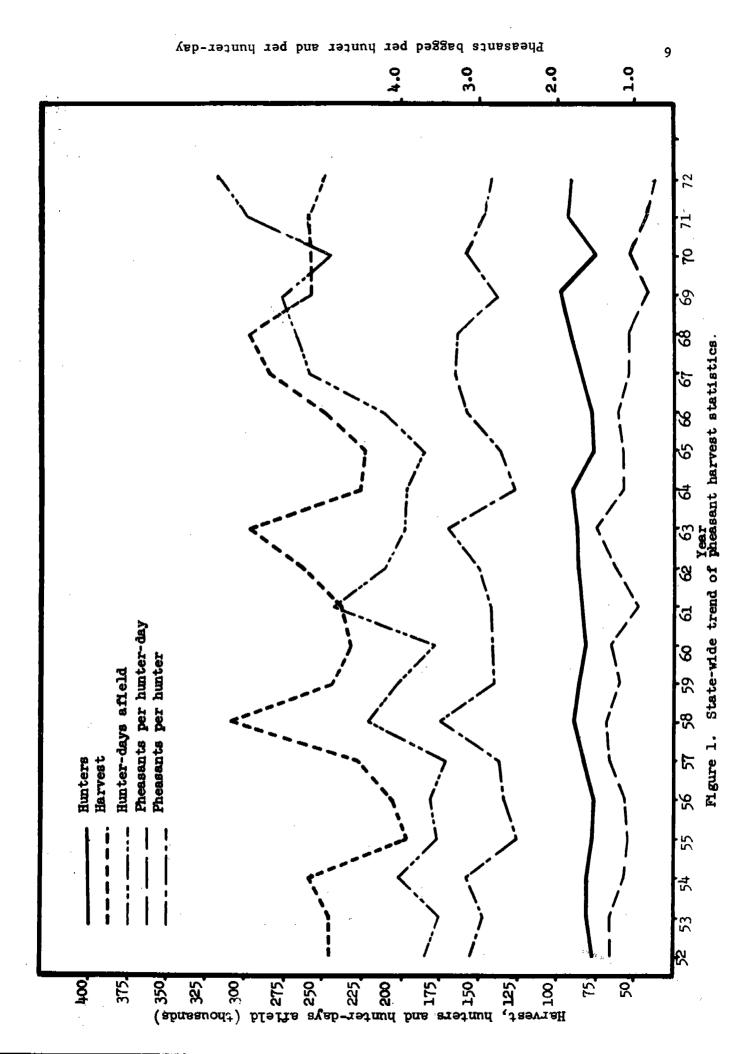


Table 1. Summary of Pheasant Winter Sex-ratio Counts, 1971-72

	ļ r	padsid	e Obse	Roadside Observations	ns	[F]	ushing	Obser	Flushing Observations	S	Ef	Effort Ex	Expended		Pheas. Obs./
Reojon &				Hens/	Cocks/				Hens/	Cocks/	Vehicle		Hours Effort	irt	100 Hrs. of
	Cocks	Hens	Total		100 Hens	Cocks	Hens	Total		100 Hens	Miles	Veh		Walk Total	Ø
Northern Region															
Box Elder	162	836	966	5.16	19	!	;	1	;	1	335	30	7	32	3327
Cache	108	440	548	4.07	25	7	10	17	1.43	70	90/	71	1	71	772
Davis	39	380	419	9.74	10	ı	;	1	1	;	140	15.5	;	15.5	2703
Morgan	;	!	;	:	!	;	!	;	;	!	;	;	!	<u> </u>	1
Rich	ł	;	!	;	!	;	t I	1	;	;	;	!	;	;	;
Summit	;	;	!	;	:	ľ	;	;	;	:	1	;	;	!	1
Weber	28	243	271	8.68	12	∞	157	165 1	9.6	5	250	13	1	13	2085
REGIONAL TOTALS	337	1899	2236	5.64	18	15	167	182 1	1.1	6	1431	129.5	2	131.5	1727
Central Region															
Juab	13	41	54	3.15	32	0	28	28	;	!	239	19	2	21	284
Salt Lake	309	2019	2328	6.53	15	70	123	163	3.08	33	1879	141	13	154	1651
Sanpete	293	1012	1305	3.45	29	0	0	0	:	;	632	71	9	17	1838
Tooele	244	1402	1646	5.75	17	;	;	;	;	1	898	19	0	61	2698
Utah	207	1103	1310	5.33	19	38		0	10.32	10	853	73.5	19	92.5	1782
Wasatch	1	1	i	;	;	;	i	;	;	!	;	;	!	!	1
REGIONAL TOTALS	1066	5577	6643	5.23	19	78	543	621	96.9	14	4471	365.5	07	405.5	1818
Southern Region	,	001	11.0	7 60	6		7 0		00	c	153	2.1	đ	30	338
beaver 2000 51 2	<u> </u>	9	C11	,	j <	- 1	† †		20.	7	7.0	7, 6	` ;	3 ~	550
Garileid	<u>.</u> د	7 ;	7 9) (> ⁵					: ² -	74	י ע כ	י ני) <u>~</u>	63/
Lron	77	118	130	y.83	ΩŢ	0	† V	/ (0.12	0	670	7.07		47	t :
Kane	1 :	!	1	! '	: ;	! ! ! !	1 (J 1 1 1 1 1 1 1 1 1	; ;) (•	1 1	, r	¦ *	1 0	17.6
Millard	0+	322	362	8,05	12	15	112	127	7.47	. T	407 C	77	⊣ -	۷,	1341.
Piute	91	36	52	2.25	77 7	7.] [<u> </u>	5.50	8T	, y		⊣ ⟨	† L	17.0
Sevier	106	651	757	6.14	16	;	!	;	;	1 1	524	43.5	O ;	43.5	1/40
Washington	50	77	127	1.54	65	45	77	122	1.71	80 00	404 57.2	30.5	22 19	52.5	416 375
Wayne (namksville) REGIONAL TOTALS	248	1325	1573	5.34	19	78/	327	402	4.19	24	2952	156.5	55.5	212	1005
				} 											
Daggett	!	1	!	1 *	1	;	;	;	ļ	1	i i	!	:	!	1 ;
Duchesne	112	193	305	1.72	28	35	52	87	1.49	29	263	36	7	70	847
Uintah	66	329	428	3.32	30	!	1	!	1		318	24	0	24	1783
REGIONAL TOTALS	211	522	733	2.47	70	35	52	87	1.49	29	881	90	4	99	1222
Southeastern Region Carbon	13	17	30	1.31	76	_	7	11	0.57	175	58	3.5	1	4.5	857
Ещегу	83	300	383	3.61	28	4	12	16	3.00	33	572	31	6	70	
Grand	;	!	-	;	;	1	!	:	;	;	1	!	!	;	10
San Juan	1	-	:	:	:	i		-	:	1	;				
REGIONAL TOTALS	96	317	413	3.30	30	11	16	27	1.45	69	630	34.5	2	44.5	1197
STATE TOTALS	1958	9640	11598	4.92	20	217	1105	1322	5.09	20	10365	746	111.5	857.5	1555
	<u> </u>							i							

Table 2. Trend of Pheasant Winter Sex-ratio Counts, 1968-72

	7967	1968-69	1969-10	-70	1970-71	-71	1971-72	-72	
Region & County	Hens/ Cock	Birds/ 100 hr.							
Northern Region	l				i				
~	4.4	2612	8.4	1900	4.0	2653	5.2	3327	
Cache	4.5	7685	3.2	372	3.6	1900	4.1	772	
Davis	9.4	2141	7.7	1733	9.5	3890	7.6	2703	
Morgan	1.3	433	;	;	1	!	•	ļ	
Rich	;	!	;	!	!	1	1		
Summit	0.3	262	:	1	1	1 1	;		
Weber	6.3	2959	6.7	1244	12.1	3140	8.7	2085	
REGIONAL TOTALS	4.6	3454	5.1	1163	5.1	2651	5.6	1727	
Central Region									
Juab	4.1	6017	5.1	1585	3.6	4886	3.2	284	
Salt Lake	5.4	5076	0.9	2362	7.3	3155	6.5	1651	
Sanpete	3,3	1001	3.1	1377	3.5	1590	3.4	1838	
Tooele	6.1	8120	5.0	2311	4.9	4245	5.8	2698	
Utah	5.4	2660	9.4	1567	4.6	1762	5.3	1782	
Wasatch					1	-	-		
REGIONAL TOTALS	5.2	3339	4.7	1899	4.8	2419	5.2	1818	
Southern Region					I				
Beaver	5,8	1225	2.3	486	& .8	612	7.7	538	
Garfield	1.8	206	3,3	390	21.0	880	0	29	
Iron	2.5	1150	}	1	;	ţ	8.8	634	
Kane	1	!	;	;	;	:	;	:	
Millard	4.7	587	5.4	167	3.9	1351	8.0	1341	
Piute	4.0	556	3.1	650	3.7	467	2.2	1733	
Sevier	5.0	3268	0.9	1527	4.6	2546	6.1	1740	
Washington	4.4	415	4.0	294	4.5	592	1.5	416	-
Wayne	;	1 0	: 3				1.7	3/5	
KEGLUNAL TOTALS	4.5	836	4.7	8.20	4.4	1430	5.3	1005	
Northeastern Region	uo								
Daggett	1	!	:	!	!	!	1	1 2	
Duchesne	 	770	2.2	428	2.1	1036	1.7	847	
- 1	3.0	2834	3.0	3087	4.2	2069	3.3	1783	
REGIONAL TOTALS	2.5	1492	2.7	915	3.0	1414	2.5	1222	
Southeastern Region	uo								
Carbon	3.9	817	1.3	694	2.0	924	1.3	857	
Emery	3.3	3593	3.5	1623	3.5	1353	3.6	1235	11
Grand	:	:	! !	;	!	:	:	:	L
San Juan	;		;	:	1	-	:		3
_11	3.4	2760	3.1	1333	2.8	1150	•	1197	
STATE TOTALS	4.4	2167	4.3	1353	4.4	2044	6.9	1555	

Table 3. Pheasant Summer Inventory Summary, 1972

			Dis	Distinct	Mixed	ed	Adults	0/M \$										
Region &	No.	Total		Broods	Observ	rv.	Young	18	Total		Total	Total	Pheas./	Yng./	Mean	Yng./	% Hens	
County	Routes	Miles	No.	Yng.	Hens Yng	Yng.	Cocks	Hens	Hens	Yng.	Cocks	Pheas.	Mile	Mile	Brood	Ad.Hen	w/Yng.	
Northern Region																		
Box Elder	2	150	21	101	ო	13	16	11	35	114	16	165	1.10	0.76	4.81	3.26	69	
Cache	7	153	15	82	10	42	12	7	32	124	12	168	1.10	0.81	5.47	3.88	78	
Davis	1	88	20	90	œ	23	10	5	33	113	10	156	1.77	1.28	4.50	3.45	85	
Morgan	!	1	ļ	;	!	ļ	!	1	;	:	!	1	1	;	;	:	;	
Rich	;	!	ł	ļ	1	;	;	-	;	;	1	;	;	1	;	;	!	
Summit	;	;	¦	!	!	;	:	I I	;	;	1	;	:	;	;	;	!	
Weber	1	78	15	91	9	45	15	18	39	136	15	190	2.44	1.74	6.07	3.49	54	
REGIONAL TOTALS	9	697	71	364	27	123	53	41	139	487	53	679	1,45	1.04	5,13	3.50	70	
Central Region										:								
Juab	-1	36	7	18	0	0	, 1	0	7	18	-	23	0.64	0.50	4.50	4.50	100	
Salt Lake	2	232	30	208	10	34	7	11	51	242	7	300	1.29	1.04	6.93	4.74	78	
Sanpete	7	184	99	403	14	83	27	œ	88	486	27	109	3.27	2.64	6.11	5.52	91	
Tooele	_	54	14	113	0	0	4	5	19	113	4	136	2.52	2.09	8.07	5.95	74	
Utah	4	457	109	579	22	38	78	46	228	617	78	923	2.03	1.35	5.31	2.71	57	
-	-	1	-	1	!	1	:	1	1	;	;	;	;	;	;	;	;	
REGIONAL TOTALS	10	963	223	1321	97	155	117	121	390	1476	117	1983	2.06	1.53	5.92	3.78	69	
Southern Region																		
Beaver	-1	75	9	37	-1	9	5	-	œ	43	2	26	0.75	0.57	6.17	5.38	88	
Garfield	;	!	;	;	;	;	;	;	;	;	;	!	;	:	;	;	;	
Iron	2	150	9	34	-	25	4	9	13	29	4	97	0.51	0.39	5.67	4.54	24	
Kane	:	!	1	;	;	:	;	;	!	ł	;	;	;	:	- 1	;	1	
Millard	7	280	35	186	m	27	19	2	43	243	19	305	1.09	0.87	5.31	5.65	88	
Piute	;	;	1	ļ	;	:	1	:	;	:	;	;	;	-	;	;	1	
Sevier	7	161	36	204	21	107	7	9	63	311	7	381	2.37	1.93	5.67	4.94	90	
Washington	7	98	9	38	4	18	7	9	16	26	7	42	0.92	9.	6.33	3.50	62	
- 1	:	:	:	:		:	-	1	۱ ا	-11		- 1]	-11	;	;	:	;	
REGIONAL TOTALS	6	752	8	499	8	213	42	24	143	712	42	897	1.19	0.95	5.60	4.98	83	
Northeastern Region	п																	
Daggett	1	!	!	;	i I	;	1	:	;	;	;	!	!	;	;	;	;	
Duchesne	m [°]	368	11	67	7	œ	23	9	19	57	23	66	0.27	0.15	4.45	3.00	99	
Uintah	7	167	12	69	4	23	13	۳	19	92	13	124	0.74	0.55	5.75	∽!	84	
REGIONAL TOTALS	~	535	23	118	9	31	36	6	38	149	36	223	0.42	0.28	5.13	3.92	9/	
Southeastern Region																		
Carbon	7	135	7	13	0	0	7	 1	ო	13	4	20	0.15	0.10	6.50	4.33	29	12
Emery	7	132	25	127	0	0	6	13	38	127	0	174	1.32	•	5.08	3.34	99	<u> </u>
Grand	-	30	'n	20	0	0	2	4	6	20	7	31	1.03	•	4.00	2.22	26	
San Juan	:				:	:	:		:	;	:	:		-1			-	
REGIONAL TOTALS	5	297	32	160	0		15	18	50	160	15	225	0.76	0.54	5.00	3.20	79	
STATE TOTALS	35	3016	438	2462	109	522	263	213	09/	2984	263	4007	1.33	0.99	5.62	3.93	72	
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Region &	ļ	ļ	ļ		Year		3,		010	- 10	[
County	1962	1963	1964	1965	1966	196/	1308	1707	13/5	13/1	19/2
Northern Region									•		
Bow Fider	3 06	1 29	2,00	1.56	1.85	0.91	0.82	0.68	0.57	1.75	1.10
Corporate Corpor	6	- 1	7	1 62	2.30	1.50	2.20	1.46	1.90	1.98	1.10
	7.0	1.5	1 26	70.0	2 2 2	٦,	600	70.7	02.0	2.75	1.77
START	1.1	3	7.1	2	1 1)		•) - 1) - !	
Morgan	l l	! !	:	;	; !	1	:	;	!	! !	1
Rich	1	!	;	1	;	;	;	:	;	1	•
Summit	i	1	¦	:	:	ŀ	0.32	;	;	ŀ	
Weber	2.31	2,11	2,15	1.81	2,48	1.67	2.00	3.18	0.71	1.82	2.44
Regional Totals	2.47	1,31	1,38	1.39	2,13	1.24	1.27	1,89	1,20	2.04	1,45
Contral Roofon		•									
	4.06	1,61	1.56	1.32	1.28	1.30	1,07	0.46	1,20	0.32	0.64
	2 37	70	1 80	2 0	1 00	•	3 04	2,60	0.88	1,74	
Salt Lake	70.7	1,74	000	1.60	2,00	9 6	6.0	20.7	3.5	2 2 2 2	3 27
Sanpere	74.7	7.00	0 1	L . 0	20.4	•	7.0	7 0	† c	111	•
Tooele	1.90	1.82	1.78	2.03	5.96	1,40	3.70	78.7	3,18	1.09 1.09	2.32
Ut a h	3.80	4.87	3.97	2.67	2.37	•	2.74	2.49	1.84	2.31	•
Wasatch	;	1	:	;	;	!	:	1			
Regional Totals	2.75	3.05	2.11	2.21	2,38	1.77	2.74	2,38	1.97	2.00	2.06
Southern Region											
Beaver	1.15	1.00	1,20	0.41	;	∞	0.88	94.0		0.69	0.75
Garfleld	;	0.84	0.75	1,10	0.75	0.41	0.79	1.05		0.03	:
Iron	3,38	0.88	0.19	0.43	0.86	9	;	0.73	0.87	0.77	0.51
Kane	;	;	!	0.75	ł	¦	;	;	;	1	E
Millard	1,48	2.05	1.70	1.84	1,48	•	1,61	1,68	1,01	1.15	1.09
Piute	!	0.16	0.31	0.89	1.02	0.39	1	•	0.53	0.35	;
Souter	3,33	1.83	0.70	0.88	1.90	1.67	1.71	1.66	1,99	4.13	•
Usehington)	2 77	; ;	1 39	1.89	, ,	0.99	•	0.29	1.32	0.92
Washille	;	- 1	;	1	} ;	• 1	: :		;	1	•
Regional Totals	2.60	1,61	0.86	1.11	1.54	1.08	1.37	1.12	0.92	1.48	1.19
Northeastern Region	uo										
Daggett	;	!	;	•	;	;	;	!	1	!	
Duchesne	0.51	0.42	0.48	0.42	0.37	0.31	0.30	0.36	0.45	0.32	0.27
Uintah	0.26	2,16	1,36	3.10	1.40	0.47	1,14	1,27	0.66	0.82	0.74
Regional Totals	0,49	1,22	0.72	1,21	99.0	0,36	97.0	0.70	0.51	0.51	0.42
Southeastern Region								1	,	•	L. **
Carbon	2.03	0.87	0	0	0.23	0	2.34	0.09	0.20	0.05	U.15
Emery	1	1,92	1,00	1.19	1.12	1.21	0.32	0.69	0.83	0.55	1.32
Grand	!	;	1	;	!	1	1	:	;	!	1.03
San Juan	1		-			:	;	:	:	:	
Regional Totals	.2,03	1.26	0,69	0.80	0.82	0.84	0.93	0.39	0.57	0.31	0.76
STATE TOTALS	2, 24	1.86	1.35	1.40	1.57	1,15	1,58	1.40	1.18	1,40	1,33
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Keglon & County	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	
Month one Book or								•				
northern negron	77 6	0	1 55	1 18	1 34	0 71	0.51		0.35	1.32	0.76	
DOX BIGE	1:4	200	7.0	1 25	76.1	2.5		1.05	1.39	1.62	0.81	
Cacile		9	, ,	7.5	1 50		65		0.54	2.25	1.28	
DAVIS	/1.7	9		1)					:	
Morgan	:	;	:	;	t I	1	<u> </u>		1	!	1	
Rich	:	:	ŀ	i	!		;	ł	1	!	;	
Summit	;	!	;	:	!	:	0.19	1	1		, i	
Weber	1.91	1.61	1.50	1.52	1.55	_	1.60	2.35	0.58	1,35	1./4	
Regional Totals	1.67	0.98	1.07	1.08	1.60	0.99	0.97	1.37	0.86	1.62	1.04	
Central Region												
	3,19	1.25	1.17	1.02	0.90	1.10			0.95	0.18	0.50	
Colt Tobo	1 93	1.27	1.30	1.26	1.44	1.00			0.61	1.31	1.04	
Sameto	2.08	1.25	0.60	1.12	1.74	0.80			2.54	1.74	5.64	
Topele	1.67	1.53	1.43	1.72	5.06	1.20			2.74	1.41	2.09	
Ttoh Ttoh	3.06	3.87	3,13	2.18	1.96	1.80	2.11	1.88	1.30	1.68	1.35	
Liesotoh	; ;	:	;	:	:	. !			!	;	;	
Doctorel Totale	70 0	38	1 50	1 73	101	1 40	2 10	1 84	1.46	1.50	1.53	
	7,7,	2:3	1	,			•		·I			
Southern Region	9	07	71 0	1,	1	5.5		96 0	79 0	87 0	0.57	
Beaver	1.00	9.40	0 :	17.0	: ;			2		;		
Garfleld	i	0.57	0.47	98.6	0.5/	0,30		4,7	0.Ly	5	30	
Iron	2.75	0.67	0.09	0.33	0.65	0.48	•	0.53	0.55	0.62	•	
Kane	!	i	ŀ	0.00	1	i		:	!	1	;	
Millard	1.29	1.64	1.30	1.51	1.19	98.0	1,39	1,32	0.84	0.90	0.87	
Piute	. !	0.13	0.24	0.68	0.81	0.28	1	0.53	0.31	0.25	! .	
Sevier	2.87	1.39	0.40	0.57	1.50	1,38	1.49	1.26	1,58	$\frac{3.21}{1.2}$	1,93	
Washington	;	2.07	ŀ	0.86	1.27	1.03	0.71	0.46	0.17	0.95	•	
- 1	;		:			:				וי		
Regional Totals	2.13	1.21	0.61	0.85	1:19	0.81	1.15	0.85	0.69	1.14	26.7	
Northeastern Region												
Daggett	1	;	ŀ	!		:	: 3	: ;	1 6	; ;	-	
Duchesne	0.35	0.30	0.36	0.32	0.27	0.19	0.20	22.0	0.27	0.21	0.10	
	0.16	1.70	98	2.50	1.10	5	0.86	0.80	0.40	2		
Regional Totals	0.32	0.94	0,53	0.96	0,50	0.23	0.32	0.47	0.31	0.34	0.28	
Southeastern Region	•	. 6	•	c	2	•	6	0	71 0	0	0,00	
Carbon	1.09	0.70	>	- ;	0.20	5	70.1		7		90.0	
Emery	:	1.52	0.70	7,7	//.0	0.8y	0.18	0.08	0.00	0.30	0,70	14
Grand	!	:	;	ł	;	;	;		!	:	0.0	
	:	:	:	;	;			: 1			: 6	
Regional Totals	1.69	1.01	0.48	09.	0.58	0.61	0.67	0.31	0,39	 - -	• 1	
STATE TOTALS	1.82	1,43	1.01	1.09	1.20	0.88	1,23	1.06	98.0	1.06	0.99	
A 1040	 - 	• -										

•)			1)						
Region &		Ī			Year					!			
County	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	ļ	
Northern Region													
Box Elder	5.26	3.49	4.86	3,38	3.15	4.02	2.07	2.00		4.02	3.26		-
Cache	8.54	4,30	5.91	4,20	6.59	6.29	5,65	3.38	.65	6.64	∞.		
Davis	4.55	3,33	4.50	3,86	3.71	2,75	4.82	4,00	00:	5,45	4.		
Morgan	Q 	;	1	!	1	1	1	E 5	1		:		
Rich	1	!	t I	1	:	1	E 1		8	1	L I		
Summit	;	1	:	!	:	!	1.75	i I		1	ŀ		
Weber	5.52	3,33	3.17	7.38	2,23	4,47	4.74	3.70	4.22	3,40	3.49		
Regional Totals	5.85	3.70	4,55	4,10	2.97	4,58	3.89	3,27	3,32	5.02	끿	,	
Central Region													
Juah	5.48	4.58	4.20	3,41	3,27			.2	ς,		ιĴ		
Salt Lake	4,95	3,33	3,48	2,86	3.36		3.02	3.63	2.96	4.08	4.74		
Sanpete	7,44	4,93	3,26	3.04	7.40		۰	4.	ő	•	٠.		
Tooele	8.33	7.25	4,53	7,15	6.54			ထ	۴.		ç.		
Utah	4.98	4.75	5.03	5.66	4.51	•	3.94	æ	•	•	٠.7		
Wasatch	;	;	!	1	8	5	1	:		t 1			
Regional Totals	5,30	4,65	4.38	4.54	5.06	4.20	3.92	4.30	3.94	3.86	3.78		Î
Southern Region					ı								
Beaver	16,20	1.35	2.40	1.60	!	,05	10.67	1.86	5,33	3.27	5.38		
Garfield	ı	2.87	3.60	4.10	4.80		4.00	•	2.00	:			
Iron	4.73	5.48	3.80	5,30	0,40	2.93	:	•	•	4.43	4.54		
Kane	8 D	ŀ	ł	Ö	;	ľ	;	1	;	1	ļ		
Millard	9.07	5,14	5.20	5.00	5.70	4.91	6.10	₹.	5.89	4.62	5,65		
Piute	1	3.67	3.00	3.57	4.90	2.50	;	5.33	1.75	5.00	1		
Sevier	6.90	4.16	2,00	4.50	4.80	5.89	6.72	۲:	4.30	4.34	4.94		
Washington	1	3.89	1	2.32	3,00	3,33	4.	ထ	1.50	•			
Wayne	1	:	:	:	1	:	-11	-11	0		1		
Regional Totals	6.37	4.09	3.67	4.19	4.68	3,98	5.75	3.84	3.92	4,19	4.98		
Northeastern Region													
Daggett	;	:	;	ł	Ş	E I	! t	1	i i	1	ı.		
Duchesne	4,36	9.00	4.60	5.60	4.70	3.21	5.92	5.00	2.51	3.50	3.00		
Uintah	1.57	5,72	3,90	6.40	5.70		•	•	•	3.08	4.84		
Regional Totals	3.62	5.77	4.20	9,00	5.20	•		۰	•	3,23	• 1		
Southeastern Region	;	,	,	•	((1	•	(
Carbon	2.00	6,08	0	0	8.00	0	4.52	1.40	2°00	2.00	٠		
Emery	5,68	3.76	3,53	4,30	5.30	5.17	4.	6.78	3,55	2,25	3,34		1
Grand	1	!	!	t I	1	1	1	ē 1	t 1	:	•		5
का	1	;	1	:	8	1	;	1	1 [ı		
Regional Totals	5.62	4.51	3,53	4.30	5,50	5,17	3,91	5,61	3,74	2,36	3.20		
STATE TOTALS	5.35	4.31	4.22	4.62	4,40	4.20	4.25	3,94	3,68	4.09	3.93		

Trend of the percent of hens observed with broods during summer roadside pheasant counts, 1963-72. Table 7.

Region &				Ye	Year						
County	1963	1964	1965	1966	1.5	1968	1969	1970	1971	1972	
Northern Region											
Box Elder	82	8	75	86	88	57		59	75	69	
Cache	83	81	74		98	65		99	98	78	
Davis	62	80	65		62	91		82	87	85	
Morgan	;	1	1	į	;	;		:	:	:	
Rich	:	!	:	:	;	:		:	i	•	
Summit	!	;	:		;	38		ł	ł	1	
Weber	91	74	100	61	100	87		100	77	54	
Regional Totals	82	81	75	78	98	99	99	68	82	70	
Central Region											
Juab	83	100	75	100				100	29	100	
Salt Lake	74	9/		53				62	99	78	
a)	83	81						78	95	91	
le	100		100	89				100	84	74	
Utah	82	78	79		99	72	14	09	69	57	
	:	:	1					1	1		
Regional Totals	82	79	79	77				71	74	69	
Southern Region											
	42	20	09	;					82	88	
Garfield	81	100	85	100					!	1 1	
Iron	80	75	90	71					62	54	
Kane	;	;	0						;	1	
Millard	82	79	88	96					81	88	
Piute		100	57						100	• •	
Sevier	26	7 0	35		100				85	06	
Washington	74	;	39	65		92	42		74	62	
Wayne	1	1	:	:			1 1		;		
Regional Totals		75	73	84	78	- }	79	77	80	83	
Northeastern Region											
Daggett	;		;	i	i	;	;	;	:	:	
ne	100	92	95	95	23	92	81	44	89	89	
	92		100	84	91	65	59	75	55	84	
Regional Totals	88	80	86	90	29	76	65	43	9	76	
Southeastern Region						,					
Carbon	75	0		100	0	74	20		100	29	
Emery	72	7,4	55	92	98	77	94	70	42		1
Grand	1.	;	:	:	ł	;	;		;		6
San Juan	i	:	-	:	:				ı.		
Regional Totals	70	74	55	96	86	75	78	71	44	64	
STATE TOTALS	78	72	82	85	9/	78	74	69	75	72	

Booton A.					Yes	 					
	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Northern Region										,	2
Box Elder	5,58	4.11	5.42	4.70	3.75	4.93	3.80	3,53	3.68	96.4	4.81
Cache	6.04	4.93	7.55	5.50	6.17	5.86	6.88	5.63	7.12	8.34	5.47
Davis	4.00	4.10	4.44	2.67	4.78	5.17	•	29.9	5.14	6.52	4.50
Morgan	:	1	:	! 1	1	!	1	:	:	!	
Rich	ł	;	1	ï	i i	!	1	1	1	!	1 1
Summit	!	ŀ	i t	[]	1	!	4.67	;	;	;	!
Weber	5.52	4.79	4.44	6.00	3.73	3.00	5.69	5.33	3.43	4.80	
Regional Totals	5.31	4.56	5.49	5.29	4.54	5.13	5.25	5.56	5.28	6.33	5.13
Central Region			٠								
	5.32	5.50	4.20	4.50	3.78	6.30	5.40	.33	4.22	7.00	4.50
Salt Lake	5.64	7.08	4.22	3.43	5.25	79.4	5.28	.35	4.95	5.76	6.93
Samete	5.88	5.88	2.64	4.57	6,39	5,18	4.68	.13	5.52	76.4	6.11
Toople	8 33	7.25	4.81	7,15	. 1	8.38	8.10	89	6.78	6.81	8.07
Utah	5,95	5.79	6.44	6.20	5.76	5.94	5.07	5.08	5.13	5.89	5.31
Wasatch	: 1	. !	:	:	1	ŀ	¦		ł	ŀ	9
Regional Totals	5.93	5.63	5.26	5.26	5.69	5.83	5.28	5.37	5.41	5.70	5.92
Southern Region											
	9.00	3,50	3.17	2.67	;	• •	10,67	:	;	5.75	6.17
Garfield	:	3.67	3.60	4.82	4.78			4.25	3.00	;	:
Iron	5.50	4.61	5.00	5.89	0,40	5.62	;	11.00	4.50	7.17	5.67
Kane	;	5.20	1	!	;			;	!	;	
Millard	6.38	6.14	5.40	5.70	5.09	6.88	;	5.74	6.24	4,44	5.31
Piute	;	!	3.00	6.25	2.67	5.00	!	2.00	3.50	2.00	11
Sevier	5.95	5.84	5.00	5.48	5.88	5.35	;	4.22	2.00	5.24	5.67
Washington	;	5.06	;	5.91	4.90	5.72	4.31	8,00	1 1	5.25	6.33
- 1		:	:	;		1	;	11			, ,
Regional Totals	5.84	5.27	4.89	5.48	5.45	5.78	5.37	5,42	5.30	5.13	5.60
Northeastern Region											
Daggett	!	:	!	!	;	ŀ	;		;	! ;	1
Duchesne	9.00	6.00	4.79	5.94	4.95	6.10	6.45	6.45	4.82	6.50	4.45
- 1	2.20	6.22	5.62	6.79	6.73	4.70	6.54	6.65	6.14 0	50.0	5, (5
Regional Totals	4.88	6.03	5.18	6.51	5.90	5.40	6.50	6.59	5.33	6.21	5.13
Southeastern Region					,		1	•			C U
Carbon	2.00	8.11	! ;	2.40	6.25	i	7.50	1.00	4.00	2.00	
Emery	5.69	5.22	4.79	5.15	6.71	29.9	4.00	8.42	5.64	00.9	20.5
Grand	1	i.	;	;	:	!	1	!	;	!	00.4
San Juan	1	1	1		;	:	1		1		
Regional Totals	5.62	5.42	4.79	5.18	6.68	6.67	6.45	7.85	5.29	5.89	-1
STATT TOTALS	5.72	5.30	5.20	5.62	5.42	5.70	5.40	5.59	5.36	5.73	5.62
	;)) - 	•	!		1				

Table 9. Summary of pheasant hunter success and distribution of harvest and hunting pressure by region and county, 1972.

Region and	Hunters	Days	Birds	Birds per	Birds per	% of	% of
County	reporting	hunted	bagged	hunter-day	hunte <u>r*</u>	pressure	harvest
0,000							
Norther <u>n</u>							a - 0=
Box Elder	628	2 11 5	1793	0.85	3.77	14.61	16.87
Cache	439	1508	1283	0.85	3.54	10.42	12.07
Davis	400	1343	724	0.54	2.84	9.28	6.81
Morgan	18	72	39	0.54	4.07	0.50	0.37
Rich	3	8	3	0.38	0.75	0.06	0.03
Summit	1	2	2	1.00	3.57	0.01	0.02
Weber	436	1413	<u>979</u>	0.69	3.06	9.76	9.21
REGIONAL TOTALS	1925	6451	4823	0.75	3.20	44.64	45.39
Central							
Juab	91	267	139	0.52	2.57	1.84	1.31
Salt Lake	462	1225	673	0.55	2.29	8.46	6.33
Sanpete	190	57 1	521	0.91	4.14	3.95	4.90
Tooele	93	335	1 55	0.46	1.81	2.31	1.46
Utah	769	2065	1542	0.75	2.60	14.27	14.5 1
Wasatch	3	4	1	0.25	2.48	0.03	0.01
REGIONAL TOTALS	1608	4467	3031	0.68	2.45	30.86	28.52
<u> </u>		, , , ' · · · · · · · · · · · · · · · · 					
Southern	26	120	84	0.70	3.85	0.83	0.79
Beaver	8	14	7	0.50	1.50	0.10	0.07
Garfield	70	240	150	0.63	2.50	1.66	1.41
Iron	0	0	0	0.00	3.50	0.00	0.00
Kane	196	666	5 37	0.81	4.22	4.60	5.05
Millard	190	23).)/ 9	0.39	3.30	0.16	0.08
Piute	173	5 3 5	452	0.84	2.97	3.70	4.25
Sevier		201	99	0.49	2.28	1.39	0.93
Washington	51	10	0	0.00	1.00	0.07	0.00
Wayne TOTAL S	<u>1</u> 533	1809	1338	0.74	3.07	12.50	12.59
REGIONAL TOTALS	233	1009	7230	0.74	3.07	12.50	12.37
Northeastern	_	_	_	• • • •	0.00	0.01	0.01
Daggett	1	1	1	1.00	2.00	0.01	0.01
Duchesne	121	322	351	1.09	4.47	2.22	3.30
<u>Uintah</u>	132	510	420	0.82	3.58	3.52	3,95
REGIONAL TOTALS	254	833	772	0.93	3.89	5.76	7.27
Southeastern							
Carbon	79	247	112	0.45	2.56	1.71	1.05
Emery	131	4 1 7	38 5	0.92	5.63	2.88	3.62
Grand	7	20	4	0.20	3.62	0.14	0.04
San Juan	0	0	0	0.00	8.00	0.00	0.00
REGIONAL TOTALS	217	684	501	0.73	3.29	4.73	4.71
Unknown counties	77	215	161	0.75	1.57	1.49	1.52
Mixed Counties	3	4	0	0.00	5.00	0.03	0.00
	4617	14,473	10,626	0.73	2.85	100.00	100.00

^{*}Based on county of residence

Table 10. Summary of pheasants bagged per hunter-day by region and county, 1965-1972.

1965	1966	1967	1968	1969	1970	1971	1972	
1965	1966	196/	1968	IUAU	1470			
				1303	1370	19/1	19/2	
						- 4		
1.61	1.72	1.52	1.46	1.10	1.25	1.18	0.85	
1.49	1.52	1.35						·
0.80	0.85	0.76	0.70	0.60		0.67	0.54	
0.80	0.42	0.50	0.86	0.25		1.02	0.54	
1.45		1.00	0.88	0.17	1.00	1.00	0.38	
	1.00	0.00	0.50	0.64	0.50	0.00	1.00	
1.02	0.93	0.95	0.81	0.72	0.79	0.72	0.69	
1.28	1.29	1.20	1.12	0.82	1.02	0.92	0.75	X= 1.0
0.98	1.08	0.98	1.10	0.96	1.09	0.93	0.52	
								7=0.9
<u> </u>		1,01		0.00				
							^ 70	
	1.02	0.94						
1.25								
0.47								
1.02								
1.08		0.62						
0.02	1.83		0.00	0.00	1.17	0.88	0.00	
1.02	1.07	1.07	1.24	1.07	1.04	0.90	0.74	X:1.02
								•
			2.33	0.71	0.50	0.47	1.00	
1.54	1.64	1.12	1.00	1.18	1.22	1.19	1.09	
1.13		1.14	1.22	1.30		1,10	0.82	
1.30	1.67	1.14	1.13	1.25	1.16	1.13	0.93	X=1.21
			<u> </u>					— <i>,</i>
1.05	1.25	0.78	0.95	0.89	0.70	0.58	0.45	
								7=1.04
1.14	1.44	1,01	****	1.4	0.54	0.70	_0.75	<u> </u>
1.40	0.00	0.93	0.95		0.58	0.67	0.75	
0.83	- -	0.90			4.00		0.00	
1.14	1.19	1.10	1.11	0.90	1.02	0.88	0.73	X=1.01
	1.49 0.80 0.80 1.45 1.02 1.28 0.98 0.90 1.07 0.86 1.01 0.96 0.56 0.67 0.74 1.25 0.47 1.02 1.08 0.02 1.02 1.54 1.13 1.30 1.05 1.16 0.33 2.25 1.12 1.40 0.83	1.49	1.49	1.49 1.52 1.35 1.35 0.80 0.85 0.76 0.70 0.80 0.42 0.50 0.86 1.45 1.00 0.00 0.50 1.02 0.93 0.95 0.81 1.28 1.29 1.20 1.12 0.98 1.08 0.98 1.10 0.90 0.84 0.89 0.90 1.07 1.13 1.17 1.32 0.86 0.58 0.85 1.05 1.01 1.06 1.11 1.12 0.00 0.20 1.10 0.96 0.96 1.01 1.07 0.56 1.33 0.72 1.22 0.67 1.30 0.69 0.75 0.74 1.02 0.94 1.29 1.25 1.10 1.31 1.45 0.47 1.33 0.91 0.59 1.02 1.33 1.11 1.28 1.08 0.60 <td>1.49 1.52 1.35 1.35 0.87 0.80 0.85 0.76 0.70 0.60 0.80 0.42 0.50 0.86 0.25 1.45 1.00 0.08 0.17 1.00 0.00 0.50 0.64 1.02 0.93 0.95 0.81 0.72 1.28 1.29 1.20 1.12 0.82 0.98 1.08 0.98 1.10 0.96 0.90 0.84 0.89 0.90 0.69 1.07 1.13 1.17 1.32 1.01 0.86 0.58 0.85 1.05 0.80 1.01 1.06 1.11 1.12 0.89 1.01 1.06 1.11 1.12 0.89 1.02 1.33 0.72 1.22 1.14 0.67 1.33 0.72 1.22 1.14 0.67 1.33 0.72 1.22 1.14 0.67 1.33 0.91 0.59 1.22</td> <td>1.49 1.52 1.35 1.35 0.87 1.29 0.80 0.85 0.76 0.70 0.60 0.69 0.80 0.42 0.50 0.86 0.25 0.95 1.45 1.00 0.88 0.17 1.00 1.00 0.00 0.50 0.64 0.50 1.02 0.93 0.95 0.81 0.72 0.79 1.28 1.29 1.20 1.12 0.82 1.02 0.98 1.08 0.98 1.10 0.96 1.09 0.90 0.84 0.89 0.90 0.69 0.76 1.07 1.13 1.17 1.32 1.01 1.32 0.86 0.58 0.85 1.05 0.80 0.95 1.01 1.06 0.58 1.08 0.89 1.11 0.00 0.20 1.10 0.60 0.00 0.96 0.96 1.01 1.07 0.83 1.01 0.56 1.33 0.72 1.22</td> <td>1.49 1.52 1.35 1.35 0.87 1.29 1.09 0.80 0.85 0.76 0.70 0.60 0.69 0.67 0.80 0.42 0.50 0.86 0.25 0.95 1.02 1.45 1.00 0.08 0.17 1.00 1.00 1.02 0.93 0.95 0.81 0.72 0.79 0.72 1.28 1.29 1.20 1.12 0.82 1.02 0.92 0.98 1.08 0.98 1.10 0.96 1.09 0.93 0.99 0.84 0.89 0.90 0.69 0.76 0.59 1.07 1.13 1.17 1.32 1.01 1.32 1.14 0.86 0.58 0.85 1.05 0.80 0.95 0.69 1.01 1.06 1.11 1.12 0.89 1.11 0.86 1.02 1.04 1.07 0.83 1.01 0.80 0.56 1.33 0.72 1.22 1.14 0.91 1.00</td> <td>1.49 1.52 1.35 1.35 0.87 1.29 1.09 0.85 0.80 0.85 0.76 0.70 0.60 0.69 0.67 0.54 0.80 0.42 0.50 0.86 0.25 0.95 1.02 0.54 1.45 1.00 0.08 0.17 1.00 1.00 0.38 1.00 0.00 0.50 0.64 0.50 0.00 1.00 1.02 0.93 0.95 0.81 0.72 0.79 0.72 0.69 1.28 1.29 1.20 1.12 0.82 1.02 0.92 0.75 0.98 1.08 0.98 1.10 0.96 1.09 0.93 0.52 0.99 0.84 0.89 0.90 0.69 0.76 0.59 0.55 1.07 1.13 1.17 1.32 1.01 1.32 1.14 0.91 0.86 0.58 0.85 1.05 0.80 0.95 0.69 0.46 1.01 1.06 1.11</td>	1.49 1.52 1.35 1.35 0.87 0.80 0.85 0.76 0.70 0.60 0.80 0.42 0.50 0.86 0.25 1.45 1.00 0.08 0.17 1.00 0.00 0.50 0.64 1.02 0.93 0.95 0.81 0.72 1.28 1.29 1.20 1.12 0.82 0.98 1.08 0.98 1.10 0.96 0.90 0.84 0.89 0.90 0.69 1.07 1.13 1.17 1.32 1.01 0.86 0.58 0.85 1.05 0.80 1.01 1.06 1.11 1.12 0.89 1.01 1.06 1.11 1.12 0.89 1.02 1.33 0.72 1.22 1.14 0.67 1.33 0.72 1.22 1.14 0.67 1.33 0.72 1.22 1.14 0.67 1.33 0.91 0.59 1.22	1.49 1.52 1.35 1.35 0.87 1.29 0.80 0.85 0.76 0.70 0.60 0.69 0.80 0.42 0.50 0.86 0.25 0.95 1.45 1.00 0.88 0.17 1.00 1.00 0.00 0.50 0.64 0.50 1.02 0.93 0.95 0.81 0.72 0.79 1.28 1.29 1.20 1.12 0.82 1.02 0.98 1.08 0.98 1.10 0.96 1.09 0.90 0.84 0.89 0.90 0.69 0.76 1.07 1.13 1.17 1.32 1.01 1.32 0.86 0.58 0.85 1.05 0.80 0.95 1.01 1.06 0.58 1.08 0.89 1.11 0.00 0.20 1.10 0.60 0.00 0.96 0.96 1.01 1.07 0.83 1.01 0.56 1.33 0.72 1.22	1.49 1.52 1.35 1.35 0.87 1.29 1.09 0.80 0.85 0.76 0.70 0.60 0.69 0.67 0.80 0.42 0.50 0.86 0.25 0.95 1.02 1.45 1.00 0.08 0.17 1.00 1.00 1.02 0.93 0.95 0.81 0.72 0.79 0.72 1.28 1.29 1.20 1.12 0.82 1.02 0.92 0.98 1.08 0.98 1.10 0.96 1.09 0.93 0.99 0.84 0.89 0.90 0.69 0.76 0.59 1.07 1.13 1.17 1.32 1.01 1.32 1.14 0.86 0.58 0.85 1.05 0.80 0.95 0.69 1.01 1.06 1.11 1.12 0.89 1.11 0.86 1.02 1.04 1.07 0.83 1.01 0.80 0.56 1.33 0.72 1.22 1.14 0.91 1.00	1.49 1.52 1.35 1.35 0.87 1.29 1.09 0.85 0.80 0.85 0.76 0.70 0.60 0.69 0.67 0.54 0.80 0.42 0.50 0.86 0.25 0.95 1.02 0.54 1.45 1.00 0.08 0.17 1.00 1.00 0.38 1.00 0.00 0.50 0.64 0.50 0.00 1.00 1.02 0.93 0.95 0.81 0.72 0.79 0.72 0.69 1.28 1.29 1.20 1.12 0.82 1.02 0.92 0.75 0.98 1.08 0.98 1.10 0.96 1.09 0.93 0.52 0.99 0.84 0.89 0.90 0.69 0.76 0.59 0.55 1.07 1.13 1.17 1.32 1.01 1.32 1.14 0.91 0.86 0.58 0.85 1.05 0.80 0.95 0.69 0.46 1.01 1.06 1.11

Table 11. Distribution of pheasant harvest by region and county, 1965-1972.

Region and								_	
county	1965	1966	1967	1968	1969	1970	1971	1972	
Northern						•			
Box Elder	19.61	19.85	22.21	20.35	14.96	14.94	15.36	16.87	
Cache	16.81	17. 1 5	14.53	15.59	9.52	13.44	11.47	12.07	
Davis	6.84	7.63	6.10	7.46	7.52	6.95	6.60	6.81	
Morgan	0.11	0.04	0.10	0.17	0.15	0.34	0.36	0.37	
Rich	0.15		0.01	0.05	0.00	0.01	0.01	0.03	
Summit		0.02	0.00	0.01	0.07	0.01	0.00	0.02	•
Weber	9.10	8.27	9.71	7.76	9.52	7.54	9.15	9.21	
REGIONAL TOTALS		52.96	52.65	51.39	41.76	43.24	42.95	45.39	<u> 7 47.</u> 8
Central									•
Juab	1.13	1.71	0.93	1.10	1.65	1.65	1.50	1.31	
Salt Lake	9.91	6.87	8.04	7.09	7.91	7.58	6.43	6.33	
Sanpete	3.25	2.89	2.95	3.62	3.64	4.70	5.18	4.90	
Tooele	1.67	1.18	0.96	1.67	1.76	1.42	2.52	1.46	
Utah	11.89	12.92	10.30	13.49	13.78	15.84	15.41	14.51	
Wasatch		0.00	0.01	0.03	0.02	0.00	0.10	0.01	
REGIONAL TOTALS		25.57	23.19	27.00	28.77	31.19	31.13	28.52	V = 27.
Southern									
Beaver	0.47	0.59	0.41	0.84	0.81	0.48	0.75	0.79	
Garfield	0.04	0.23	0.07	0.04	0.12	0.04	0.16	0.07	•
Iron	0.84	1.09	0.61	1.34	1.52	1.38	1.26	1.41	
Kane						0.00	0.05		
Millard	4.15	3.12	3.46	4.12	5 .90	5.62	4.37	5.05	
Piute	0.06	0.10	0.07	0.07	0.27	0.09	0.12	0.08	
Sevier	2.56	2.87	2.79	3.01	4.37	4.26	4.33	4.25	
Washington	1.17	0.46	0.51	0.86	0.87	0.52	1.06	0.93	
Wayne	0.01	0.10		0.00	0.00	0.06	0.06	0.00	
REGIONAL TOTALS		8.56	7.92	10.28	13.86	12.45	12.15	12.59	x = 10.0
					<u> </u>				
Northeastern Daggett			0.02	0.05	0.04	0.03	0.06	0.01	
Duchesne	2.76	3.37	2.96	2.28	3.43	3.56	4.22	3.30	
Uintah	2.70	4.80	3.03	3.92	5.56	4.62	4.09	3.95	
REGIONAL TOTALS		8.17	6.01	6.25	9.03	8,22	8.37	7.27	7:73
	<u> </u>	0.17	0.01	0,23	9.03	0,22	0.57	7.21	<u> </u>
Southeastern Carbon	1.57	1.56	0.93	1.15	1.82	1.10	1.30	1.05	
Emery	2.13	3.14	2.72	2.31	4.65	3.21	2.52	3.62	
Grand	0.01	0.04	0.04	0.18	0.10	0.02	0.10	0.04	
San Juan	0.01				0.00	0.02	0.10		
REGIONAL TOTALS		4.74	3.69	3.64	6.58	4.36	3.94	4.71	Z=4.
Unknown countie		0.00	1.68	1.44		0.44	1.45	1.52	
Mixed counties	0.63	0.00							
mixed countles	0.03	0.00	4.86			0.10		0.00	
STATE TOTALS	100	100	100	100	100	100	100	100	
STATE TOTALS	100	100	100	100	100	100	100	100	

Table 12. Distribution of pheasant hunting pressure by county hunted, 1965-1972.*

Region and	1065	1066	1967	1968	1969	1970	1971	1972	_
county	1965	1966	1907	1900	1909	1970	<u> </u>	1912	
Northern									
Box Elder	13.47	13.13	16.15	15.52	12.31	12.23	11.47	14.61	
Cache	10.96	12.19	11.91	12.83	9.85	10.64	9.23	10.42	
Davis	8.97	9.73	8.92	11.88	11.29	10.35	8.73	9.28	
Morgan	0.19	0.23	0.22	0.22	0.53	0.37	0.31	0.50	
Rich	0.09		0.01	0.06	0.04	0.01	0.01	0.06	
Summit	0.02	0.02	0.08	0.03	0.10	0.02	0.01	0.01	
Weber	8.97	8.94	11 <u>.31</u>	10.58	11.87	9.79	11.23	9.76	
REGIONAL TOTALS	42.67	44.24	48.59	51.13	45.99	43.41	40.99	44.64	X=45,2
Central									
Juab	1.36	1.65	1.05	1.11	1.55	1.54	1.42	1.84	
Salt Lake	12.60	12.26	9.93	8.76	10.26	10.27	9.64	8.46	
Sanpete	3.42	3.05	2.79	3.06	3.24	3.63	3.99	3.95	
Tooele	2.30	2.5 1	1.25	1.76	1.97	1.53	3.19	2.31	
Utah	17.24	17.29	10.28	13.43	14.01	14.62	15.78	1 4.27	
Wasatch		0.02	0.04	0.04	0.04	0.01	0.21	0.03	
REGIONAL TOTALS	36.92	36.78	25.35	2 <u>8.16</u>	31.07	31.60	34.23	30.86	<u> 1</u> 31.87
Southern									
Beaver	0.75	0.54	0.63	0.76	0.64	0.55	0.66	0.83	
Garfield	0.12	0.16	0.10	0.06	0.11	0.04	0.15	0.10	
Iron	1.31	1.19	0.72	1.16	1.42	2.03	1.49	1.66	
Kane						0.00	0.01		
Millard	3.79	3.72	2.93	3.16	4.17	4.86	3.89	4.60	
Piute	0.19	0.14	0.09	0.13	0.20	0.12	0.11	0.16	
Sevier	3.47	2.72	2.79	2.62	3.90	3.40	3.74	3.70	
Washington	1.12	0.86	0.90	1.34	1.14	1.15	1.72	1.39	
Wayne	0.07	0.09		0.02	0.04	0.05	0.06	0.07	
REGIONAL TOTALS	10.82	9.42	8.16	9.24	11.62	12.20	11.83	12.50	-7: 0.77
Northeastern									
Daggett			0.01	0.02	0.05	0.07	0.11	0.01	
Duchesne	2.25	2.44	2.91	2.54	2.62	2.99	3.13	2.22	
<u> Uintah</u>	2.44	2.86	2.92	3.58	3.85	4.19	3.26	3.52	 /
REGIONAL TOTALS	4.69	5.30	5.84	6.14	6.52	7.25	6.50	5.76	<u> 7:</u> 6.00
Southeastern									
Carbon	1.69	1.61	1.32	1.34	1.85	1.61	1.98	1.71	
Emery	2.65	2.51	2.65	2.16	2.73	3.05	2.41	2.88	
Grand	0.05	0.09	0.10	0.16	0.13	0.05	0.12	0.14	
San Juan	0.05			- -	0.09	0.02	0.03		
REGIONAL TOTALS	4.44	4.21	4.06	3.65	4.80	4.73	4.54	4.73	<u> </u>
Unknown counties	0.07	0.02	2,00	1.67		0.78	1.92	1.49	•
Mixed counties	0.40		6.00	- -		0.03		0.03	
				<u> </u>	<u>-</u> _	· <u> </u>			
STATE TOTALS	100 .	100	100	100	100	100	100	100	166

 $[\]star$ Distribution of hunting pressure for 1967 and later is based on hunter-days rather than number of hunters reporting.

Table 13. State-wide summary of pheasant harvest statistics, 1948-1972.

t	Total	Total	Hunter-days	Pheasants	Pheasants per
Year	hunters	harvest	afield	per hunter	hunter-day
1948	96,534	280,914		2.91	
1949	88,369	263,340	189,453	2.98	1.39
1950	92,724	249,428	235,309	2.69	1.06
1951	76,576	246,575	171,233	3.22	1.44
1952	78,773	246,559	185,383	3.13	1.33
1953	82,595	245,307	176,480	2.97	1.39
1954	82,370	260,289	201,774	3.16	1.29
1955	78,793	196,195	178,359	2.49	1.10
1956	77,826	206,239	182,512	2.65	1.13
1957	83,025	228,319	170,387	2.75	1.34
1958	88,290	309,015	220,725	3.50	1.40
1959	86,268	243,276	202,730	2.82	1.21
1960	81,976	232,812	177,719	2.84	1,31
1961	83,493	238,439	243,305	2.86	0.98
1962	86,336	262,448	209,921	3.04	1.25
1963	87,647	297,873	198,582	3.40	1.50
1964	88,242	225,775	196,314	2.56	1.15
1965	77,409	211,876	186,215	2.74	1.14
1966	78,721	249,814	209,082	3.17	1.19
1967	85,664	284,000	257,033	3.32	1.10
1968	90,453	297,752	267,788	3.29	1.11
1969	90,573	250,241	277,887	2.76	0.90
1970	78,585	250,503	244,958	3.19	1.02
1971	87,878	259,189	294,618	2.95	0.88
1972	84,311	240,573	327,669	2.85	0.73

TOTALS (1948-72)	2,113,431	6,276,751	5,205,436	2.97	1.21
AVERAGES (1948-71)	84,547	251,507	212,077	2.97	1,19

Table 14. Pheasant Field Bag Check Summary, 1972

		STMIH TIA	TINITS				COM	COMPLETE HUNTS	UNTS		
Region and	Total	Total	Total	Total	Birds/	Total Complete	Total	Total	Total	Birds/	Birds/
	Parties	Hunters	Hours	Birds	100 hrs.	Hunts	Hunters	Hours	Birds	100 hrs.	Hunter
Northern								-	•		•
Box Elder	66	311	1283	231	18	30	85	420	700	5 5	1.10
Cache	222	673	2123	404	19	121	279	1036	134	516	0,.
Davis	30	81	260	7 1	16	က	17	69	61	87	71.1
Morgan	;	1	;	1	!	:	· :	;	;	:	!
Rich	;	!		;	1 1	;	<u>!</u>	:		!	:
Summit	;	;	;	ł	•	:	!	;	1	; ;	;
Weber	115	337	917	167	18	29	172	399	111	28	0.65
REGIONAL TOTALS	997	1402	4583	843	18	221	553	1930	324	17	0.59
Central				1	ļ	;	;	;	ŀ	;	;
Juan	! }	1 6	1 1	֡֝֞֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֓֓֡֓֜֜֓֓֡֡֓֜֜֡֡֡֓֓֡֡֡֓֜֜֜֡֡֡֡֓֜֜֜֡֡֡֡֓֜֜֜֡֡֡֡֡֡	1 5	0 0	Ö	200	3.5	17	0.39
Salt Lake	9/1	3/8	8/1	114	7 F	9 9	60	607	3 <	• () :
Sanpete	20	136	511	6/	1	.	- 5	> ¢	> :	1 0	77 0
Tooele	29	79	378	37	10	∞ ;	77	149	† 6 1 6	הע	40.0
Utah	118	348	1092	161	15	22	90	230	39	7.7	0.00
Wasatch	1		1	:		1		:	:	; ;	: :
REGIONAL TOTALS	373	941	2852	391	14	68	171	288	88	15	0.51
Dougle III	5	101	940	53	22	7	_	18	9	33	0.86
Deavel General	10	1 1) !	; ;		1	ì	;	;	;	;
Garileid	1 7	101	000	0.7	35	č	41	186	77	24	1.07
Lron	4	13/	290	16	7	2	1 I		: ;	i i	1
Kane	! ;	1 (1 1	1 6	! ÷		93	200	00	20	0.87
Millard	100	325	130/	180	14	OT .	7		2	3	
Piute	1	1	!	:	1	I (1 (. 6			, ,
Sevier	88	194	628	152	24	27	63	282	20	87	1.30
Washington	12	32	73	2	14	0	o	>	>	1	•
Wayne		:		:	:		:		:	-	: -
REGIONAL TOTALS	299	789	2638	492	19	59	134	594	152	97	1.13
Northeastern											!
Daggett	•	I I	:	1	1 :	1 1	! :	1 6	֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓) <u>-</u>	1 1%
Duchesne	248	658	4072	627	15	1/1	440	0777	/00		41.1
Uintah	119	341	1082	178	16	47	TOO		8	/ 1	00.0
REGIONAL TOTALS	367	666	5154	805	16	213	246	3913	282	2	1.09
Southeastern									,	,	•
Carbon	17	52	158	7	e	2	Ω	15	0	0	0 ;
Emery	9/	262	1023	156	15	11	32	133	20	15	
Grand	:	:	;	;	;	•		;	:	:	23
San Juan	;	1	:	:	1			:		:	-
REGIONAL TOTALS	93	314	1181	160	14	13	37	148	70	14	0.54
	1598	4445	16,408	2691	16	574	1441	7173	1179	16	0.82

Table 15. Pheasant hunter success trend as determined by field bag check, 1967-72.

	1067		1068	, a	1969	0	1970	0	1971		197	7.2	
Revion and	Birds/	Birds/	Birds/	Birds/	Birds/	Birds/	Birds/	Birds/	13	122	Birds/	Birds/	
	100 hr.	Day	100 hr.	Day	100 hr.	Day							
Northern											,	(
Box Elder	24	1.40	22	0.89	δ	0.41	54	1.00	10	0.30	18	1.18	
Cache	24	1.12	21	1.11	19	0.51	35	1.10	21	0.63	61	0.70	
Davis	26	0.71	54	0.97	25	0.58	27	0.98	16	1	9I	1.12	
Morgan	;	:	!	;	!	:	1		1	;	1	!	
Rich	;	;	ļ	;	1	!	1	!	!	!	!	:	
Summit	23	1.00	40	0.89	!	;	!	;	.1	1	1 :	1 ;	
Weber	24	1.08	23	0.62	12	0.50	10	0.52	13	0.35	82	•	
REGIONAL TOTALS	24	1.16	22	0.94	16	0.50	24	0.99	16	0.52	18	0.59	
Central													
Juab	77	1.67	1	;	;		20	1	13	2.00	1 ;	! !	
Salt Lake	36	0.76	35	98.0	13	0.53	16	0.28	15	0.32	13	0.39	
Sampete	19	0.56	19	0.45	13	0.69	21	0.61	34	0.71	15	0.58	,
Topele	19	0.50	15	0.50	30	1.90	20	2.18	19	0.72	10	0.64	
Utah	25	1.12	27	1.13	17	-	56	0.77	27	1.13	15		
Wasatch	;	;	1	-		:	1	-	:	:		: ['	
REGIONAL TOTALS	26	0.80	26	0.85	16	0.98	21	0.61	22	0.77	14	0.51	
Southern	:	,			Ļ	ć	9	63	30	1 33	23	98.0	
Beaver	70	1.59	;	t 1		7.00	7	20.0	, , ,		77) !	
Garfield	!	t I	; ;	! !	1 3	1 0	07 1	0.00	C7 %	33	7.	1.07	
Iron	!	;	0	7.72	40	77.7	13		7	1.7	3 1		
Kane	1	;	1 (1 8	1 9	; 6	i (. 6	I 0	0,70	17.	78.0	
Millard	:	;	20	99.0	8	7.00	77	٠ د د د د	0 70		† -	ò.	
Piute	!	;	! !	: .	! 6	;	32	1.32	97	00.0	- 70	1 30	
Sevier	1 1	;	1/	1.39	χ, X	1,11	2 '	1.50	5 C	7.10	† ;	2.0	
Washington	ï	0.30	ָר עם	0.42	40	: :	-	5 :	17 :	10:0	.	: :	
PECTONAL TOTALS	1 8	0.56	67	1.09	52			1.07	22	0.89	19	1.13	
March Carry Land													
Daggett	ł	;	;	;	1	;	1	;	!	:	:	1	
Duchespe		1.12	15	1,37	15	1.36	15	0.99	22	1.73	15	1.14	
Uintah	36	1.23	25	1.12	21	•	19	1.16	24	1.36	16	0.88	
REGIONAL TOTALS	21	1.16	18	1.27	17	1.24	17	1.06	23	1.56	16	1.09	
Southeastern						,	ı	•		•	c		
Carbon	12	1.10	12	98.0	15	3.00	ኅ ;	07.0		3 5	n	90.0	
Emery	54	1.00	22	0.76	16	1.02	54	0.96	13	50.0	5	70.0	2
Grand	;	:	i i	;	;	;	:		ע	0.33	! !		24
San Juan		:	-	:		-	1 6	-	: ;		1 2	75 0	
REGIONAL TOTALS	21	1.03	16	0.82	16	1.04	23	0.90	2	0.51	14	0.34	
STATE TOTALS	23	1.04	25	1.00	21	1.00	20	0.97	21	1,05	16	0.82	

MOURNING DOVE

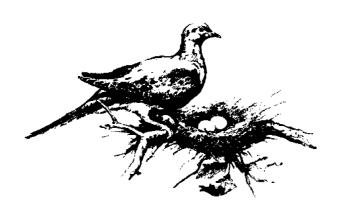
SUMMARY

The Breeding Density Index (BDI) derived from the annual call-count survey indicated a decline in the 1972 dove breeding population. The decline was sharply accentuated by an unusually high index in 1971. The breeding population level for 1972 was slightly lower than the average since 1964.

Hunting pressure, both hunters and hunter-days, increased over 1971 and resulted in an increased total harvest. Hunter success declined from 1971 and the average. Reduced success may have been due to decreased production, migration or both.

A total 1,413 doves were banded in 1972. Age composition was 36.9 percent immatures, 62.6 percent adults and 0.6 percent unknown age.

Band recovery information since 1964 indicates that a maximum of from five to ten percent of Utah banded doves have been harvested by sportsmen.



Call-Count Survey

Results of the 1972 call-count survey are found in Table 1 of this section. The long-term trend of the State's Breeding Density Index (average doves heard per route) is shown in Table 2. Indexes shown in each of these tables are unweighted and consequently differ somewhat from those published in the annual Mourning Dove Status Report compiled by the Bureau of Sport Fisheries and Wildlife. Indicated trends are similar. Following is a comparison of the results of the 1972 survey to 1971 and the average for the period 1964-71:

,		Percent cl	nange from
	<u>1972</u>	<u>1971</u>	Average
Total doves heard per route	14.3	-37	- 8
Total calls heard per route	55.7	-33	-22
Total doves seen per route	8.6	-69	-54

The breeding density index was well below the unusually high index for 1971 but only slightly below average.

Although production data are not available for mourning doves the weather conditions which decimated production of most other upland game birds probably had a detrimental influence upon mourning dove reproductive success.

The long-term trend of Utah's dove population as shown in the Mourning Dove Status Report for 1972 is downward but not to a degree that is statistically significant. The trend since 1964 as shown in Table 2 is relatively stable. It is probable that habitat deterioration over the past several years has had a detrimental influence upon the State's dove population.

<u>Harvest</u>

Hunter Questionnaire

Information obtained from the hunter questionnaire for 1972 is summarized in Table 3. Long-term trends of mourning doves bagged per hunter-day, percent of harvest and percent of pressure (hunter-days) by county are found in Tables 4-6 and total State-wide harvest statistics in Table 7. Harvest statistics for 1972 compared to 1971 and the average as follows:

		Percent	change from
	<u>1972</u>	1971	Average
Mourning dove hunters	29,341	+13	+84
Mourning dove harvest	238,354	+ 5	+67
Hunter-days afield	94,046	+16	+133
Mourning doves per hunter	8.12	- 7	- 7
Mourning doves per hunter-day	2.53	- 9	-35

Weather conditions preceding the opening of the mourning dove season consisted of below normal temperatures and near normal precipitation. Scattered rainshowers occurred throughout the State during the first week of the season. These conditions did not appear excessively detrimental to dove hunting, particularly on the opening weekend.

Results of the harvest questionnaire indicated an increase in hunting pressure, both from the standpoint of total hunters and hunter-days. Because of the increased pressure, total harvest increased. Hunter success per day and for the season both decreased from 1971 and the average. The reduced hunter success probably indicated a reduced population level at the time the hunting season opened. Whether this was due to poorer reproduction, migration or both is uncertain.

Long-term harvest trends are depicted in Figure 1.

Field Bag Checks

A summary of field-bag-check data for 1972 is shown in Table 8. Hunter success trends determined via this method are shown in Table 9. Results of the 1972 survey compare to 1971 and the average as follows:

		Percent ch	ange from
	<u>1972</u>	<u>1971</u>	Average
Total hunters checked	1,275	-5	- 8
Total hours hunted	3,359	+6	-13
Doves per hunter (complete hunts)	3.03	-1	- 15
Doves bagged per 100 hours	86	+5	-10
Average hours per hunter-day			
(complete hunts)	3.2	-14	-11
Hours hunted per dove bagged	1.2	0	+ 9

Hunter success determined by field bag check for 1972 was similar to 1971. Most complete hunt data collected came from the Northern Region and consequently is not comparable to data collected State-wide via questionnaire.

Dove hunters in 1972 spent slightly less time afield per day im comparison to 1971 and the average. An average of 1.2 hours was required for each dove bagged; the same effort required in 1971 but higher than average.

Banding

Results of the annual preseason mourning dove banding program for 1972 are shown in Table 10. The trend of doves banded since 1961 is shown in Table 11. Band recovery rates and distribution of recoveries by State and country for Utah banded doves are shown in Tables 12 and 13 respectively. Table 14 is a summary of the number of doves banded in other states that have been recovered in Utah.

During 1972, 1,251 doves were banded by Division personnel. An additional 162 were banded by Game Management Agents of the U. S. Bureau of Sport Fisheries and Wildlife. Banding was distributed among 11 counties.

Age composition of doves banded was 36.9 percent immatures, 62.6 percent adults and 0.6 percent unknown age. This suggests reduced reproductive success in 1972 as compared to 1971 when 40.2 percent of the doves banded were immatures.

The direct recovery rate or the percentage of doves killed during the first hunting season following banding for immatures and adults combined from 1949-62 was 1.1 percent. From 1964-71 this value was 1.4 percent. Total recovery rate (direct recoveries plus all subsequent recoveries) for both periods, was 2.7 percent. Expansion of the direct recovery rate of 1.4 percent for the period 1964-71 using an assumed band reporting rate of 30 percent indicates that only 4.7 percent of the State's mourning doves were harvested by hunters during this period. If crippling loss is considered, the total death rate due to hunting would still not exceed 5-10 percent of the population.

The distribution of band recoveries for Utah banded doves shows that 78.6 percent of combined recoveries (including recoveries, returns or foreign retraps) have been made in Utah. Recoveries from Utah and apparent primary dove wintering areas in Arizona, California and Mexico combined account for 97.7 percent of all recoveries received as of March 31, 1972.

Only 31 bands have been recovered in Utah from doves banded in other states. Of this number, 14 were originally banded in Arizona, primarily during the winter months.

In summary, it is evident that Utah hunters primarily harvest doves that are raised in Utah. They do not harvest a significant number of migrating doves. Doves produced in Utah, but harvested elsewhere, are probably not harvested while migrating, but rather on the wintering area indicating rapid movement from summer to winter habitat.

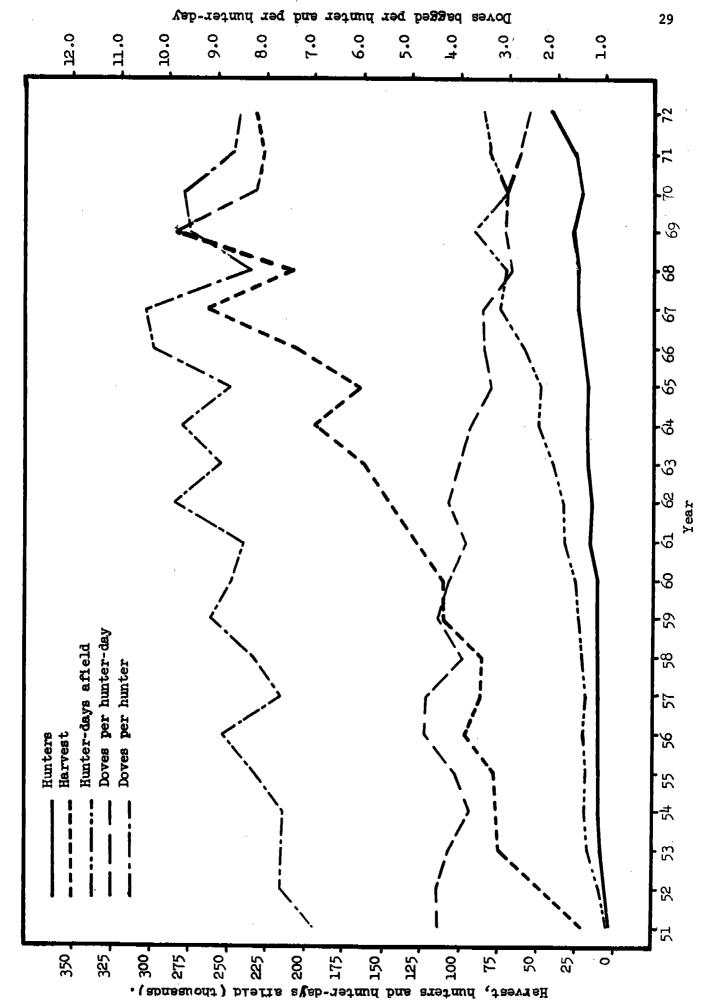


Figure 1. State-wide trends of mourning dove harvest statistics.

Table 1. Summary of the mourning dove call-count survey for 1972.

Region and	Route	Total Doves	Total Calls	Total Doves
County	Number	Heard per Route	Heard per Route	Seen per Route
Northern				
Summit	R1020	7	38	31
Box Elder	R1500	2	2	3
Regional Totals		9	40	34
Central				
Juab	R2830	6	15	4
Regional Totals		6	15	4
Southern				
Sevier-Sanpete	R0370	0	0	0
Wayne-Sevier	R0660	20	44	3
Garfield	R1090	29	101	Õ
Millard	R3640	19	89	4
Beaver	R3820	13	45	6
Iron	R4000	20	137	12
Washington	R4310	61	246	22
Regional Totals		162	662	47
Northeastern				
Duchesne	R0080	O	24	n
Dicheshe Uintah	R0220	8 4	24	3
Regional Totals		12	<u>48</u>	25
ACETORAL TOCATO				
Southeastern				
Emery	RO540	1	2	10
San Juan	R1170	24	44	29
San Juan	<u>R1450</u>	Automa	tic Zero	
Regional Totals		25	46	39
STATE TOTALS	 · · · · · · · · · · · · · · · · · ·	214	835	129
STATE AVERAGE		14.3	55.7	8.6
PERCENT CHANGE			, , , , , , , , , , , , , , , , , , , 	
(from previous year)	1	-37	-33	-69

Regional and county summary of mourning dove breeding population trend as indicated by the number of doves heard per route during random call-count surveys, 1964-72. Table 2.

	4	· *	- 1	7		3. 6	Donte				
Keglon and County	Number	1964	1965	1966 1	ıσ	IJσ	- 1	1970	1971	1972	
Northern Region Summit	R1020	11	6	16	10	16	7	11	10	7	
Box Elder	R1500	2	2	9	2	9	က	7	, 4	2	
Regional Totals		13	14	22	12	22	10	18	14	6	
Central Region	R2830	28	17	22	42	23	. &	15	32	9	
Regional Totals		28	17	22	42	23	80	15	32	9	
Southern Region											
Sevier-Sampete	R0370	m	٣	0	7	-	0	_	7	0	
Wayne-Sevier	R0660	œ	œ	'n	12	7	2	∞	11	20	
Garfield	R1090	22	19	59	27	17	18	9	14	. 29	
Millard	R3640	;	18	18	70	43	56	~	11	19	
Beaver	R3820	6	17	19	6	23	6	17	12	13	
Iron	R4000	26	33	13	19	13	26	15	54	20	
Washington	R4310	33	36	36	40	21	38	54	99	61	
Regional Totals		101	134	120	154	125	119	108	143	162	
Northeastern Region	1	1	ı	•	,	,	,	,		o	
Duchesne	R0080	19	~ 0	23	62	11	10	ر با آر	97	o <	
	ROZZU	; ٥	ز ر	71	7	3	٩	בן ב	3		
Regional Totals		16	16	35	79	444	φ	21	78	12	
Southeastern Region										-	
Egery	R0540	9	9	m	2	7	11	6	10	H	
San Juan	R1170	2			9	~	18	33	09	24	
San Juan	R1450	;	2	0	0	0	Automatic		Zero		
Regional Totals		11	13	4	8	14	29	42	70	25	
STATE TOTALS		169	194	203	295	228	214	201	341	214	
STATE AVERAGES		13.0	12.9	13,5	19.7	15.2	14.3	13.4	22.7	14.3	
171			7	+5	977	-23	9	9.	69+	-37	31
(Irom previous year)				2		2	,	,			

Table 3. Summary of mourning dove hunter success and distribution of harvest and hunting pressure by region and county, 1972.

Region and County	Hunters	Days	Birds	Birds per	Birds per	% of	% of
	Reporting	Hunted	Bagged	Hunter-Day	hunter*	Pressure	Harvest
Northern					•		
Box Elder	129	337	1,064	3.16	9.84	8.11	10.11
Cache	62	193	430	2.23	8.78	4.65	4.08
Davis	59	137	178	1.30	5.18	3.30	1.69
Morgan	22	62	131	2.11	6.83	1.49	1.24
Rich	7	13	40	3.08	2.50	0.31	0.38
Summit	8	39	79	2.03	10.00	0.94	0.75
Weber	96	319	532	1.67	6.54	7.68	5.05
Regional Totals	383	1,100	2,454	2.23	6.90	26.48	23.31
<u>Central</u>							
Juab	100	224	859	3.83	10.47	5.39	8.16
Salt Lake	165	514	930	1.81	7.89	12.37	8.83
Sanpete	34	110	224	2.04	8.69	2.65	2.13
Tooele	97	265	631	2.38	7.68	6.38	5.99
Utah	277	775	1,735	2.24	7.53	18.66	16.48
Wasatch	13	27	40	1.48	5.80	0.65	0.38
Regional Totals	686	1,915	4,419	2.31	7.83	46.10	41.97
Southern							
Beaver	20	77	363	4.71	10.87	1.85	3.45
Garfield	5	15	74	4.93	12.33	0.36	0.70
Iron	25	97	325	3.35	14.64	2.34	3.09
Kane	3	5	13	2.60	5.50	0.12	
Millard	49	129	495	3.84	10.09	3.11	0.12
Piute	7	26	92	3.54	15.33	0.63	4.70
Sevier	40	160	391	2.44	10.16	3.85	0.87
Washington	32	127	423	3.33	12.97	3.06	3.71
Wayne	1,	4	10	2.50	0.00	0.10	4.02 0.09
Regional Totals	182	640	2,186	3.42	_ 11.88	15.41	20.76
Northeastern							
Daggett	5	10	27	2.70	10.00	0.04	0.04
Duchesne	14	33	162	4.91	8.80	0.24	0.26
Uintah	29	106	167	1.58	6.21	0.79	1.54
Regional Totals						2.55	1.59
	48	149	356	2.39	7.14	3.59	3.38
Southeastern Carbon	25	0.0	000	2.2-		_	
Emery	35 19	98 47	289	2.95	9.66	2.36	2.75
Grand	11	47	126	2.68	4.87	1.13	1.20
San Juan	13	58 52	182	3.14	22.13	1.40	1.73
-			205	3.94	7.75	1.25	1.95
Regional Totals	<u>7</u> 8	255	802	3.15	11.83	6.14	7.62
Unknown counties	43	90	261	2.90	3.00	2.17	2.48
Mixed counties	1	5	50	10.00	2.00	0.12	0.47
STATE TOTALS	1,421	4,154	10,528	2.53	8.12	100	100

Table 4. Summary of mourning doves bagged per hunter-day by region and county, 1965-72.

							,	,	
Region and					•		· ·		
County	1965	1966	<u> 1967</u>	1968	1969	1970	1971	1972	
Northern									
Box Elder	4.97	5.37	4.35	3.79	3.88	3.60	3.85	3.16	
Cache	2.96	3.83	3.27	3.03	2.49	3.27	2.62	2.23	
Davis	1.75	1.81	1.76	1.56	1.68	1.56	1.64	1.30	
Morgan	3.94	4.79	4.18	3.69	3.88	3.70	3.63	2.11	
Rich	9.50		3.20	2.18	4.27	3.44	3.80	3.08	
Summit	3.17	3.57	2.60	1.70	3.15	5.00	2.77	2.03	
Weber	2.25	2.33	2.45	1.68	2.12	1.98	1.59	1.67	
Regional Totals	3.32	3.57	3.30	2.59	2.84	2.77	2.53	2.23	
		- · · - ·							
Central Tuck	E 06	E (7	()1	5 05	, 00	F 00	5 06		
Juab	5.86	5.67	6.21	5.05	4.88	5.89	5.06	3.83	
Salt Lake	2.42	2.75	3.14	2.29	2.26	2.18	2.03	1.81	
Sanpete	3.00	5.25	3.03	2.82	3.14	3.64	3.90	2.04	
Tooele	3.70	3.39	3.78	3.23	3.33	3.76	2.98	2.38	
Utah	3.27	3.27	3.32	2.92	3.10	3.41	2.71	2.24	
Wasatch	3.90	2.71	4.48	4.11	1.49	2.41	1.75	1.48	
Regional Totals	3.18	3.39	3.70	3.03	3.07	3.16	2.75	2.31	
<u>Southern</u>									
Beaver	4.78	3.96	4.55	4.85	5.65	4.28	4.00	4.71	
Garfield	2.44	1.20	3.61	1.60	3.11	1.33	3.25	4.93	
Iron	4.83	4.55	3.59	4.97	2.91	3,72	3.41	3.35	
Kane	8.04	5.00	5.86	1.64	3.60	3.00	3.53	2.60	
Millard	4.90	5.35	4.41	4.81	3.84	5.83	4.45	3.84	
Piute	3.64	2.00	6.78	0.55	2.16	7.67	3.60	3.54	
Sevier	1.93	2.79	1.99	2.31	3.20	2.95	3.32	2.44	
Washington	4.17	4.02	4.21	2.71	4.04	4.38	3.87	3.33	
Wayne	5.69	10.00	0.47	2.50	·	2.58	3.00	2.50	
Regional Totals	4.15	4.10	3.75	3.56	3.55	4.15	3.79	3.42	
Northeastern		•							
Daggett	2.75		3.69	4.00	1 67	7 20	E 0/	0.70	
Duchesne	2.00	3.73	2.00		1.67	7.30	5.86	2.70	
Uintah	4.13	3.59	2.37	1.12 _2.62	2.67	4.54	3.00	4.91	
Regional Totals	3.77	3.62	2.42	2.10	2.21	3.05	2.30	1,58	
		J. 02	2.42	2.10	2.26	3.70	2.60	2.39	
<u>Southeastern</u>									
Carbon	2.37	2.87	2.56	3.17	3.56	2.26	0.89	2.95	
Emery	1.58	2.89	4.68	3.69	2.81	1.28	2.39	2.68	
Grand	2.82	2.00	4.00	3.67	3.71	5.79	2.71	3.14	·
San Juan	3.88	5.60	4.65	7.00	3.27	2,29	3.15	3.94	
Regional Totals	2.48	3.08	3.76	3.81	3.24	2.38	1.93	3.15	
Unknown counties	2.18	1.84	3.28	2.88		4.55	2,49	2.90	
Mixed counties	3.76		3.88	1.00		0.00	2.49	10.00	
				2.00		V.UU		10.00	
STATE TOTALS	3.36	3.51	3.56	2.96	3.07	3.14	2,79	2.53	
				,0	3.07	J. 17	2.13	در. ، ،	
			· · · · · · · · · · · · · · · · · · ·						

Table 5. Distribution of mourning dove harvest by region and county, 1965-72.

Region and	1065	1066	1067	1060	1060	1070	1971	1972	
County	1965	1966	1967	1968	1969	1970	12/1	1714	
<u>Northern</u>									
Box Elder	11.47	11.55	11.76	11.47	11.94	10.11	9.99	10.11	
Cache	4.98	5.45	5.34	5.72	2.89	5.42	4.13	4.08	
Davis	2.12	2.90	1.70	3.27	2.81	3.31	2.62	1.69	
Morgan	1.48	1.86	2.31	2.29	2.78	1.77	0.92	1.24	
Rich	1.12		0.25	0.24	0.35	0.49	0.72	0.38	
Summit	0.45	1.54	0.61	0.39	0.79	0.71	0.68	0.75	
Weber	4.80	3.57	4.58	5.00	5.34	3.52	4.61	5.05	
Regional Totals	26.42	26.87	26.55	28.37	26.90	25.32	23.68	23.31	
<u>Central</u>									
Juab	5.86	8.87	8.69	7.87	8.91	6.56	8.07	8.16	
Salt Lake	13.60	16.31	9.15	10.10	10.19	12.04	11.08	8.83	
Sanpete	1.38	2.58	3.27	2.14	2.22	3.63	2.65	2.13	
Tooele	8.70	8.95	10.32	10.39	8.55	5.51	8.51	5.99	
Utah	11.83	17.28	13.16	15.74	14.41	17.46	17.46	16.48	
Wasatch	0.46	0.19	0.94	0.78	0.41	0,72	1.69	0.38	
Regional Totals	41.83	54.18	45.53	47.01	44.69	45.93	49.45	41.97	
Southern									
Beaver	1.29	2.03	1.66	2.67	1.42	1.21	1.85	3.45	
Garfield	0.26	0.12	0.51	0.08	0.64	0.04	0.61	0.70	
Iron	1.02	2.28	1.37	3.73	3.33	4.57	2.76	3.09	
Kane	2.08	0.10	0.64	0.18	1.46	0.03	0.50	0.12	
Millard	4.15	5.20	4.25	5.42	7.04	6.23	5.71	4.70	
Piute	0.47	0.20	0.47	0.21	0.61	0.20	0.17	0.87	
Sevier	1.71	2.14	1.24	2.06	2.50	3.02	3.57	3.71	
Washington	2.31	2.06	2.03	1.90	3.28	1.32	3.43	4.02	
Wayne	0.87	0.31	0.06	0.10		0.27	0.17	0.09	
Regional Totals	14.16	14.44	12.23	16.34	20.28	16.88	18,77	20.76	
Northeastern									
Daggett	0.13		0.37	0.12	0.07	0.64	0.39	0.26	
Duchesne	0.09	0.42	0.48	0.37	0.47	0.52	0.42	1.54	
Uintah	1.51	1.62	1.20	1.36	1.91	1.97	2.04	1.59	
Regional Totals	1.73	2,04	2.05	1.85	2.45	3.14	2.85	3.38	
Southeastern									
Carbon	1.89	0.91	1.21	2.06	2.84	2.85	0.64	2.75	
Emery	0.22	0.80	1.35	1.33	1.93	0.93	0.81	1.20	
Grand	0.73	0.02	0.90	0.55	0.38	1.69	0.72	1.73	
San Juan	0.37	0.29	1.34	1.05	0.53	1.13	0.98	1.95	
Regional Totals	3.21	2.02	4.80	4.98	5,68	6.60	3.15	7.62	
Unknown counties	0.85	0.47	2.07	1.44		2.13	2.09	2.48	
Mixed counties	11.80		6.78	0.00		0.00		0.47	
STATE TOTALS	100	100	100	100	100	100	100	100	

Table 6. Distribution of mourning dove hunting pressure by region and county, 1965-72*.

,									
Region and		•					·		
County	1965	1966	1967	1968	1969	1970	1971	1972	
Northern									
Box Elder	16.31	10.12	9.63	8.96	9.44	8.83	7.23	8.11	
Cache	8.49	5.34	5.81	5.59	3.56	5.22	4.39	4.65	
Davis	6.66	5.25	3.43	6.18	5.15	6.66	4.45	3.30	
Morgan	1.50	1.59	1.96	1.83	2.20	1.50	0.71	1.49	
Rich	0.17		0.28	0.33	0.25	0.44	0.53	0.31	
Summit		1.31	0.83	0.68	0.77	0.44	0.68	0.94	
Weber	4.33	6.28	6.64_	8.85	7.73	5.58	8.08	7.68	
Regional Totals	37.46	29.89	28.58	32.43	29.10	28.68	26.07	26.48	
	3,4,10								
<u>Central</u>								- 00	
Juab	3.66	7.12	4.98	4.62	5.60	3.50	4.45	5.39	
Salt Lake	18.30	16.21	10.38	13.05	13.86	17.38	15.23	12.37	
Sanpete	1.16	2.34	3.85	2.25	2.18	3.14	1.89	2.65	
Tooele	5.16	9.09	9.71	9.53	7.87	4.61	7.97	6.38	
Utah	6.49	20.52	14.11	15.98	14.29	16.10	17.94	18.66	
Wasatch	0.17	0.28	0.75	0.56	0.84	0.94	2.68	0.65	
Regional Totals	34.94	44.56	43.77	45.98	44.64	45.67	50.17	46.10	
Southern									
Beaver	1.16	0.75	1.30	1.63	0.77	0.89	1.29	1.86	
Garfield	0.50	0.37	0.50	0.15	0.64	0.08	0.53	0.36	
Iron	0.83	1.87	1.36	2.22	3.52	3.86	2.26	2,34	
Kane	0.67	0.09	0.39	0.33	1.25	0.03	0.39	0.12	
Millard	3.33	3.47	3.43	3.34	5.62	3.36	3.58	3.11	
Piute	0.50	0.09	0.25	1.12	0.86	0.08	0.13	0.63	
Sevier	1.33	2.16	2.21	2.63	2.40	3.22	3.00	3.85	
	1.00	1.12	1.72	2.07	2.49	0.94	2.47	3.06	
Washington			0.47	0.12	4.43 	0.33	0.16	0.10	
Wayne	0.33 9.65	0.09	11.62	13.61	17.55	12.80	13.81	15.41	<u> </u>
Regional Totals	9.03	10.01	11.02	13.01		14.00	T7.0T	17.41	
<u>Northeastern</u>									
Daggett	0.50		0.36	0.09	0.14	0.28	0.18	0.24	
Duchesne	0.50	0.56	0.86	0.98	0.54	0.36	0.39	0.79	
Uintah	0.83	1.50	1.80	1.54	2.65	2.03	2.47	2.55	_
Regional Totals	1.83	2.06	3.02	2.62	3.33	2.67	3.05	3.59	
									-
Southeastern Carbon	2 14	1.12	1.69	1.92	2.45	3.97	2.00	2.36	
Emery	3.16 1.00	0.66	1.02	1.92	2.43	2.28	0.95	1.13	
Emery Grand	0.67	0.09	0.80	0.44	0.32	0.92	0.74	1.40	
Grand San Juan	0.50	0.09	1.02	0.44	0.32	1.55	0.74	1.40	
_					5.38	8.72	4.55	6.14	
Regional Totals	5.33	2.15	4.54	3.88	٥٠٠٠				
Unknown counties	3.16	0.28	2.24	1.48		1.47	2.34	2.17	
Mixed counties	7.65		6.23	0.03		0.00		0.12	
			<u> </u>						· · · · · · · · · · · · · · · · · · ·
STATE TOTALS	100	100	100	100	100	100	100	100	

^{*} Distribution of hunting pressure for 1967 and later is based on hunter-days rather than number of hunters reporting.

Table 7. State-wide summary of mourning dove harvest statistics, 1951-72.

	Total	Total	Hunter- Days Afield	Doves per Hunter Day	Doves per <u>Hunter</u>
Year	Hunters	<u>Harvest</u>	, , , , , , , , , , , , , , , , , , ,		
1951	3,007	20,448	4,455	4.59	6.80
1952	6,420	49,498	10,784	4.59	7.71
1953	9,887	75,636	17,797	4.25	7.65
1954	9,901	75,941	19,724	3.85	7.67
1955	9,653	79,444	19,282	4.12	8.23
1956	10,744	95 _¥ 729	20,411	4.69	8.91
1957	11,298*	86,769*	18,620*	4.66	7.68
1958	11,853	85,934	21,591	3.98	7.25
1959	12,142	110,856	24,911	4.45	9.13
1960	12,440	108,477	25,766	4.21	8.72
1961	15,192	128,001	33,434	3.89	8.42
1962	14,663	144,826	34,281	4.23	9.89
1963	18,258	162,769	40,490	4.02	8.91
1964	19,829	193,538	51,671	3.75	9.76
1965	18,710	164,087	48,835	3.36	8.69
1966	20,594	212,696	60,608	3.51	10.33
1967	25,161	263,949	74,171	3.56	10.49
1968	25,105	207,922	70,186	2.96	8.28
1969	29,131	279,311	90,965	3.07	9.59
1970	23,908	232,469	73,984	3.14	9.72
1971	26,064	226,645	81,271	2.79	8.70
1972	29,341	238,354	94,046	2.53	8.12
TOTALS	2/2 005	2.0/2./01	1 027 /5/	2.12	8.93
1951-1972	363,295	3,243,481	1,037,456	3.13	0.73
AVERAGES (1951-1971)	15,903	143,101	40,442	3.89	8.69

^{*}Estimated

Table 8. Mourning Dove Field Bag Check Summary, 1972.

			ATT DIENTE				COM	COMPLETE HINTS	INTS		
Region and	Total	Total	Total	Total	Birds/	Total Complete	Total	Total	Total	Birds/	Birds/
County	Parties	Hunters	Hours	Birds	100 hrs.	Hunts	Hunters	Hours	Birds	100 hrs.	Hunter
Northern						,	1	1		ć	(
Box Elder	274	439	1,542	1,303	84	138	355	1,351	1,21/	96	٠. د د د
Cache	15	32	9/	09	79	15	32	9/	3	ς,	1.88
Davis	ļ	!	1	!	!	:	!	1 :	1 ;	3	¦
Morgan	σ	20	53	24	45	m	5	15	12	0 <u>8</u>	2.40
Rich	e	13	28	11	39	0	0	0	0	1	!
Summit	1	1	1	-	1	ŀ	;	ł	1	1	!
Weber	29	53	83	90	108	19	35	63	73	125	2.26
Regional Totals	330	557	1,782	1,488	84	175	427	1,505	1,368	91	3.20
Central				•					,	;	
Juab	16	48	136	184	135	4	11	25	11	77	1.00
Salt Lake	49	104	215	102	47	17	36	98	55	97	1,53
Sanpete	12	30	57	95	167	-	2	9	6	150	4.50
Tooele	42	114	344	141	41	σ,	18	73	49	29	2.72
Utah	75	154	260	213	82	9	10	23	26	113	2.60
Wasatch			1	-		:	ł	ł	1		
Regional Totals	194	450	1,012	735	73	37	77	213	150	70	1.95
Southern					ı	•	,	•	•		
Beaver	9	10	16	T3	81	5	>	5	5	!	!
Garfield	!	1	}	!	!	1	1	1		1 ;	1
Iron	4	7	13	33	300	2	'n.	10	33	330	6.60
Kane	5	7	12	78	233	m	4	יטי		240	3°00 3°00 3°00
Millard	30	73	214	231	108	6	5	76		162	8.40
Piute	1	}	!	!	!	}		! '	1	1 ;	1 }
Sevier	9	20	21	16	9/	m	7	∞	'n	62	0.71
Washington	-	7	7	7	175	0	0	0	0		1
	3	4	15	14	93	1	1	4		150	9.00
Regional Totals	58	123	295	348	118	12	22	53	8	185	4.45
Northeastern Daggett	20	77	83	78	94	11	29	42	59	140	2.03
Duchesne	S	13	35	24	69	0	0	0		1	1
Uintah	38	88	152	227	149	20	39	81		157	3.26
Regional Totals	63	145	270	329	122	31	89	123	186	151	2.74
Southeastern											
Carbon _				ı		; ;					
Emery			0 Z	D A T	A COL	LECTED					
San Inan											37
Regional Totals											
STATE TOTALS	645	1,275	3,359	2,900	86	255	594	1,894	1,894 1,802	95	3.03

Table 9. Mourning dove hunter success trend determined by field bag checks, 1967-72.

	1967	7	1968	00	1969	6	1970	0	1971	-	1972	2
Region and	Doves/	Doves/	Doves/	Doves/	Doves/	Doves/	Doves/	Doves/	Doves/	Doves/	Doves/	Doves/ Hunter
Northern	100 1113	Tanina	200	Tanica	201							
Box Elder	203	6.58	84	3.83	79	3,30	81	3.20	70	3.43	8 4	3,43
Cache	20	2.12	158	4.62	91	1.88	164	4.44	106	7.00	79	1.88
Davis	55	1.00	22	1.40	62	0.80	ł	1	¦	!	1 .	1
Morgan	41	0.70	!	!	1	1	1	1	131	3.70	45	1.20
Rich	45	4.40	186	6.92	118	2.20	1	1	29	3.00	36	0.85
Summit	1	1	!	!	191	4.66	91	1.44	12	0.43	1	!
Weber	102	0.50	29	0.35	85	1.98	116	3.75	33	0.37	108	2.26
Regional Totals	166	5.77	84	3.75	82	3.08	98	3.20	71	3.22	84	3.20
Juab	1	1	61	!	130	8.00	95	4.33	83	3.00	135	3.83
Salt Lake	84	2.16	35	0.85	43	0.65	72	1.28	71	1.36	47	1.53
Sanpete	}	¦	52	1.12	!	;	19	0.47	22	0.82	167	3.17
Tooele	96	5.52	43	2.56	46	1.58	36	09.0	61	0.78	41	2.72
Utah	121	4.07	99	3.58	75	1.50	85	4.20	111	5.27	82	1.38
Wasatch	-	1	1	-	70	4.00	1	-	1	;	1	1
Regional Totals	101	3,32	46	2.12	63	1.92	99	1.46	70	1.58	73	1.95
	770	67 1							à	1	2	30
beaver o c - 1 1	+ 07	co./	¦	!	c •	<u> </u>	C F	ו ו ו	00	ł	7	2
Garrieid	1 9	7 (f		1	L43	1	7/	2.23	1 1	}	l (!
Iron	300	4.25	209	2.00	1 :	!	486	5.45	205	5.36	300	09.9
Kane	!	i	1	1	143	3,33	/2	!	{	:	233	3.00
Millard	ļ	!	105	2.58	1	!	ļ	¦	119	6.33	108	3.16
Piute	1	;	133	3.57	190	2.78	158	00.9	92	1	1	¦
Sevier	!	ł	!	}	1	1	217	1	133	5,33	9/	0.80
Washington	114	2.54	98	1.29	220	6.24	238	4.33	1	1	175	3,50
	-	1	<u> </u>	!	!	;	1	!	1	;	93	3.50
Regional Totals	190	4.32	110	2.77	205	4.06	217	4.42	124	5.86	118	4.45
Northeastern Daggett	!	}	i	1	38	0.69	;	;	152	4.20	96	2.03
Duchesne	ł	ļ	;	}	200	1.83	36	3.00	ł	¦	69	1.85
Vintah	100	2.00	143	3.67	141	5.77	132	3,39	147	3.29	149	3.26
Regional Totals	100	2.00	143	3.67	122	3.98	109	3.37	150	3.78	122	2.74
Southeastern	Ċ	ì			i I	i	(¢				
carbon	971	5.36	!	ŀ	۲/۶	3./1	>	5	!	1 1	;	1
Emery	109	2.00	ţ	¦	161	3.54	159	6.44	207	!	! !	!
Grand	1	1	1	!	1	t I	1	1	1	ŀ	!	ł
	111	3.73	:	;	339	10.00	1	!	-	1		1
Regional Totals	114	3.91	-	;	246	4.00	155	6.44	207	:	}	
STATE TOTALS	146	5.19	92	3.62	87	3.00	87	2.98	82	3.07	86	3.03

Table 10. Summary of preseason mourning dove banding in Utah during 1972.

County	Immatures	Adults	Unclassified	Total
Box Elder	2	5		7
Daggett	39	60		99
Duchesne	15	128		143
Iron	125	124		249
Juab	71	151	7	229
Millard	15	12		27
Piute	75	15		90
San Juan	73	129		202
Tooele	60	158		218
Uintah	9	85		94
Washington	37	17	1	55
TOTALS	521 (36.9%)	884 (62.6%)	8 (0.6%)	1,413

Of the total 1,413 doves, 1,251 were banded by Division of Wildlife Resources personnel and 162 by Bureau of Sport Fisheries and Wildlife personnel.

Table 11. Summary of mourning doves banded in Utah, 1968-72.

Donton and		1968			1969			1970			1971		l	1972		Total	1961-72**	2**
!	Imm. A	Adult Total	otal	Imm.	Adult Tota	Cotal	Imm. A		Total	Imm. A		Total	Imm. A		Total	Imm.	Adult I	Total
Region	,							· · · · · · · · · · · · · · · · · · ·								,		!
	10	35	45	၉	189	219	14	83	97	1	1	!	7	S	_	995	2422	3417
Cache	1	1	ł	ಜ	36	99	!	1	1	1	;	ł	į		1	ဓ္က	99	69
Davis	ł	ł	ł	ì	ł	1	ļ	1	!	ł	1	1	1	1	ł	;	1 :	;
Morgan	1	}	ł	ļ	1	1	1	1	ł	22	20	42*	1	ŀ	1	22	20	42*
Rich	1	ļ	ļ	ł	1	1	!	1	ł	1	!	1	ł	}	ł	!	1.	1
Summit	ł	;	ì	1	}	1	!	ł	1	1	1	;	ł	1	ļ	!	1	1
Weber	;	ł	ł	1	ł	1	1	1	1	1	1	ł	1	1	1	1	1	1
Regional Totals	10	35	45	09	225	285	14	83	97	22	20	45*	2	5	7	1047	2481	3531*
Central Region																	. !	•
Juab	19	113	174	213	148	361	29	28	125	64	53	117	71	151	229*	1587	2559	4500
Salt Lake	}	1	ł	31	29	9	1	¦	1	1	ł	!	1		1	47	214	261
Sanpete	1	ł	ł	ł	ł	1	1	1	1	1	ļ	!	ļ	ł	ł	1	1	;
Tooele	138	193	331	227	447	674	126	228	354	85	370	455	9	158	218	1215	2051	3291*
Utah	ł	1	ţ	1	ł	ł	!	1	1	1	!	;	ł	}	ļ	61	155	216
Wasatch	1	!	;	ł	1	ł	1	1	;	1	ł	!	1	1	;	ł	1	1
otals_	199	306	505	471	654	1125	193	286	647	149	423	572	131	309	¥447*	2910	4979	7977*
Southern Region																•	,	;
Beaver	ł	1	1	;	ł	!	ł	ł	ļ	1	ł	1	ł	ł	!	φ	5 0	32
Garfield	ł	ł	ł	1	ł	!	!	1	1	ł	1	}	1	1	ŀ	}	1	1
Iron	;	1	1	ł	1	1	179	49	228	113	п	114	125	124	249	417	174	591
Kane	ł	1	1	¦	ł	¦	ł	!	ł	-	1	1	ł	ł	1	86	89	154
Millard	ł	ł	1	79	19	140	28	35	63	38	13	21	15	12	27	303	457	761*
Piute	1	}	1	172	171	343	132	268	400	166	211	377	75	15	8	545	999	1210
Sevier	ł	ł	ł	1	ł	ł	ł	ł	1	7	0	7	ł	ł	l	4	5 6	8
Washington	ł	1	1	17	24	41	13	26	*07	41	7	43	37	17	55*	117	978	1097*
Wayne	!	;	1	1	1	1	!	}	}	-	1	1	1	1	1	4	8	12
Regional Totals	1			268	256	524	352	378	731*	360	227	587	252	168	421*	1482	2402	3887*
tern	Region																	
Daggett	`	ო	4	1	ł	1	7	7	6	7	78	35	39	9	66	54	93	147
Duchesne	!	!	1	}	1	ł	4	56	ස	7	79	71	15	128	143	5 6	218	244
Uintah	8	9	14	3	12	15	38	83	121	49	123	172	6	85	94	368	1167	1535
Regional Totals	6	6	18	C)	12	15	64	111	160	63	215	278	63	273	336	448	1478	1926
Southeastern Region	ion																	
Carbon	-	7	ന	7	7	9	1	1	1	}	1	1	1	1	ŀ	œ	4	12
Emery	1	ł	1	33	14	53	1	ł	!	1	}	1	1	!	1	36	14	23
Grand	25	17	69	1	1	:	}		1	1	1	;	ł	ł	ł	25	17	69
San Juan	;	1	1	1	ł	;	15	5	20	37	52	88	73	129	202	439	219	658
Regional Totals	53	19	72	94	16	62	1.5	2	20	37	52	89	73	129	202	538	254	792
STATE TOTALS	271	369	979	848	1163	2011	623	863	1487*	631	937	1571	521	884	1413	6425	11594	18113*
*Includes some unclassified birds.	nclas	sified	birds	•	**Long t	ng term	n total	•										40

Table 12. Summary of mourning dove band recovery rates for the period 1949-71.

Time	Doves	Number of	Recoveries	Recover	ry Rates
Period	Banded	Direct*	Total**	Direct	Total
1949-62	4,001	43	110	.011	.027
1964	1,945	37	68	.019	.035
1965	1,416	33	57	.023	•040
1966	973	1	7	.001	.007
1967	2,233	37	60	.017	.027
1968	640	6	14	.009	.022
1969	2,006	36	55	.018	.027
1970	1,487	16	40	.011	.027
1971	1,571	8	13	.005	.008
TOTALS 1964-71	12,271	174	314	.014	.026

^{*}Direct recovery - A banded dove that is killed during the first hunting season following banding.

424

.013

.026

217

GRAND

TOTALS

16,272

^{**}Total recovery - Direct recoveries plus all subsequent recoveries for any given cohort of banded doves.

Table 13. Summary of combined recoveries, returns and foreign retraps of mourning doves banded in Utah, 1961-71.

	Recoveries		Recoveries		
State and	as of		During 1970		
Country of Recovery	August, 1970	(Percent)	and 1971*	Recoveries	(Percent
UNITED STATES					
Utah	540	(81.3)	15	555	(78.6)
Arizona	38	(5.7)	16	54	(7.6)
Northern	2	(-• ,			•
Southern	36				
California	21	(3.2)	2	23	(3.2)
Northern	3	(-		, ,
Central	4				
Southern	14				
New Mexico	4	(0.6)	1	5	(0.7)
Northern	2	(-,-,	-		,
Southern	2				
Idaho	2	(0.3)	0	2	(0.3)
Texas	2	(0.3)	Ö	2	(0.3)
Oregon	2	(0.3)	Ŏ	2	(0.3)
Colorado	2	(0.3)	Ö.	2	(0.3)
Nevada	1	(0.2)	o O	ī	(0.1)
Iowa	i	(0.2)	Ŏ	ī	(0.1)
States Other Than Utah	73	(11.0)	19	92	(13.0)
United States Total	613	(92.3)	34	647	(91.6)
bilited blates iotal	013	()2.3)	3 4	0.,	(*-*-)
MEXICO			_		
Jalisco	20	(3,0)	1	21	(3.0)
Michoacan	7	(1.0)	4	11	(1.6)
Sinaloa	9	(1.4)	0	9	(1.3)
Sonora	5	(0.8)	0	5	(0.7)
Unknown State	1	(0.2)	3	4	(0.6)
Durango	2	(0.3)	0	2	(0.3)
Guanajuato	1	(0.2)	0	1	(0.1)
Aguascalientes	1	(0.2)	0	1	(0.1)
Colima	1	(0.2)	0	1	(0.1)
Nayarit	1	(0.2)	0	1	(0.1)
Mexico State	1	(0.2)	• 0	1	(0.1)
Baja California	1	(0.2)	0	1	(0.1)
Mexico Total	50	(7.5)	8	58	(8.2)
HONDURAS	1	(0.2)	0	1	(0.1)
TOTAL RETURNS	664	(100)	42	706	(100)

^{*}As per reports received as of March 31, 1972

Table 14. Summary of mourning doves banded in other states and recovered in Utah through August, 1970.

State Where Banded	Number of Returns
Arizona	14
Idaho	7
Washington	4
Nevada	3
Texas	2
Oregon	
Total Recoveries and Returns o Doves Banded In Other States:	f 31

CHUKAR PARTRIDGE

SUMMARY

All population indexes, except young-adult ratios, suggested a population level equal to or greater than 1971. Young-adult ratios suggested a substantial reduction.

Harvest questionnaire data proved the reduction indicated by the young-adult ratio to be correct. Hunting pressure declined slightly from 1971 while hunter-success and total harvest were substantially below 1971 and the average. Extensive rainfall preceding the opening of the hunting season dispersed the birds and probably depressed hunter success in many areas.

Field bag checks reflected the reduced success shown by questionnaire and indicated that hunters spent more time per bird bagged with a longer average hunter day.



Brood Counts

Results of the annual random brood survey are shown in Table 1 of this section. Long-term trends of young-adult ratios, mean brood size and chukars observed per 100 hours are found in Tables 2-4. Survey results for 1972 compared to 1971 and the average as follows:

		Percent	change from
	<u>1972</u>	1971	Average
Total chukars observed	2,148	+41	+37
Young per 100 adults	235	-24	- 45
Mean brood size	10.08	+29	+15
Chukars observed per 100 hours	556	+71	+38
Total hours effort	386	-18	-3

Considering the above average harvest and hunter success in 1971, the breeding population level should have been above average in 1972.

Weather conditions, particularly in the southern half of the State were not conducive to good production. Extremely dry conditions in late winter and spring resulted in poor forage conditions.

During brood counts, fieldmen exerted less effort and counted substantially more chukars compared to both 1971 and the average. Dry conditions may have concentrated birds in the vicinity of water making them easier to locate.

Mean broodsize was higher than both 1971 and the average while young per 100 adults was considerably lower than 1971 and the average.

Harvest

Hunter Questionnaire

Results of the hunter questionnaire survey for 1972 are shown in Table 5. Long-term trends of chukars bagged per hunter-day, percent of harvest and percent of pressure (hunter-days) by county are found in Tables 6-8 and total State-wide harvest statistics in Table 9. Following is a comparison of 1972 harvest statistics to 1971 and the average:

		<u>Percent</u>	change from
	<u>1972</u>	1971	Average
Chukar hunters	16,685	-7	+5
Chukars harvested	36,925	-40	-1 5
Hunter-days afield	46,502	-16	+ 5
Chukars per hunter	2.21	-35	-7
Chukars per hunter-day	0.79	-28	-14

Hunting pressure, in terms of both total hunters and hunter-days afield declined from 1971 but were still slightly above average. Hunter success, both per day and per hunter, was below both 1971 and the average. The combination of reduced hunting pressure and success resulted in a total harvest that was lower than both 1971 and the average; the lowest total since 1965.

Chukar hunter success in 1971 was considerably poorer than expected. This was apparently due to poorer production than indicated by inventory data and widespread rainfall just prior to the season which seemed to disperse the birds more than usual. Long-term trends of chukar harvest statistics are shown in Figure 1.

<u>Field Bag Checks</u>

A summary of field-bag-check data for 1972 is shown in Table 10. The hunter success trend determined via bag check since 1966 is shown in Table 11. Data for the 1972 season compared to 1971 and the average as follows:

		Percent change from
	<u>1972</u>	1971 Average
Total hunters checked	57 1	-37 -30
Total hours hunted	3,532	-32 -6
Chukars per hunter (complete hunts)	0.97	-8 -18
Chukars bagged per 100 hours	14	-26 -46
Average hours per hunter-day		
(complete hunts)	6.6	+20 +47
Hours hunted per chukar bagged	7.0	+32 +67

This information confirms the reduced success indicated by questionnaire. The distribution of hunter's sampled was such that the state-wide index of hunter success (per day) is not comparable to that obtained via questionnaire. Most of the data were derived from checking stations sampling Box Elder, Juab and Tooele Counties.

The average chukar hunter spent more time afield each day in comparison to both 1971 and the average and hunted more hours for each chukar bagged.

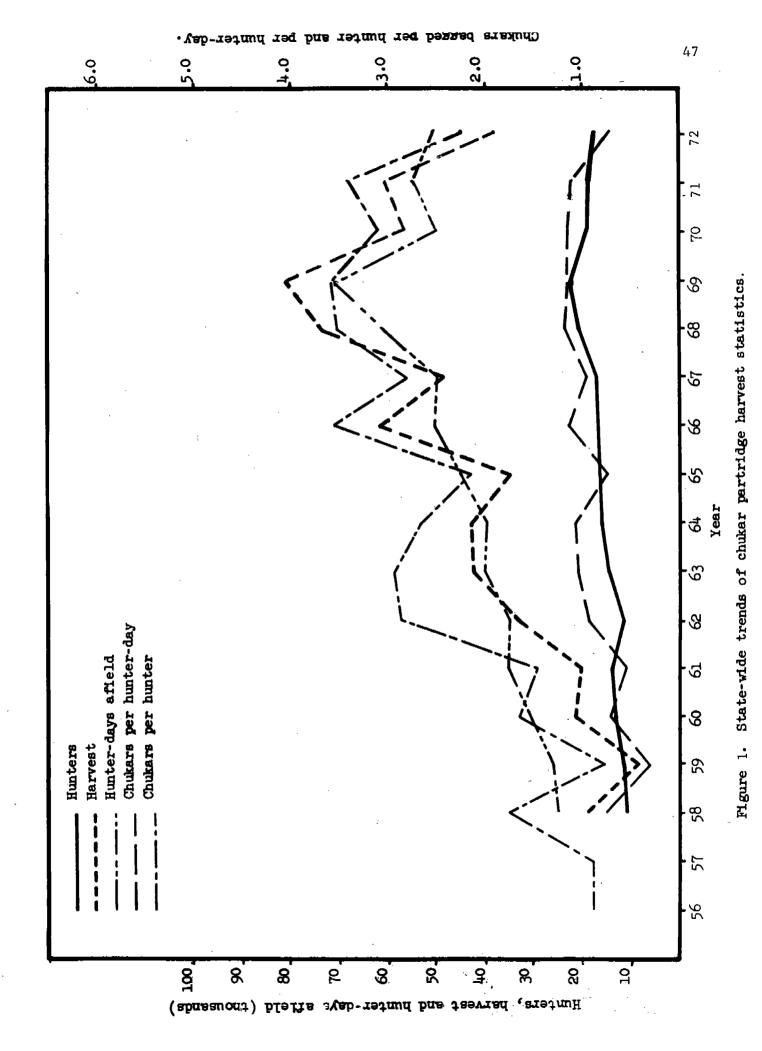


Table 1. Chukar Partridge Summer Inventory Summary, 1972

Region and	Distinct	nct	Mean	125 1	1 -1	Adults	Total	Total	Young/	Vehicle	Vo V	Hours	Effor Malk	it Total	Birds/	
County	NO. Ad.	Yng.	Brood	Ad.	1118.	w/ O 1118.	Auntes	16	100 au.	1		2	. I			
Northern					ı	;	;	1		1	ı		c	à	ŗ	
Box Elder		172	13.23	∞	83	28	53	797	492	787	ÇÇ,	40	ກເ	o † 1		
Cache	0	0		0	0	2	7	0	;	123	4	!	.	_	1	
Davis	f 1	;	•	; 1	;	1	:	;	1	:	1	;	;	; !	!	
Morgan	;	!	;	1	!	1	:	:	:	1	!	;	ł	;	:	
Rich	!	1	1	;	•	:	!	;	;	;	1	t 1	;	:	1	
Summit	:	1	;	;	1	;	;	;	;	;	!	1	1	;	!	
Weber	1	1	;	;	;	1	1	;	;	1	;	1	-			
REGIONAL TOTALS		172	13.23	8	89	30	55	261	475	712	39	97	9	91	347	
Control																
Juah	17 23	162	9.53	7	31	16	97	193	420	514	32	0	7	39	613	
Salt Lake	_	C	:	0	0	0	0	0	;	80	ო	~	0	10	1	
Sannete		7.	00.9	3	42	10	25	54	216	104	7	∞	0	15	527	
Toola	17 98	390	10.83	3.5	118	254	330	508	154	559	36	0	Ŋ	17	2044	
IItah	•	45	7.50	3 6	85	7	23	127	552	135	16	0	2	18	833	
Vocati Vasatob		Ç	. !	9	, c	. 0	0	0	:	31	œ	0	0	&	!	
REGIONAL TOTALS		609	9.98	89	273	284	454	882	208	1423	102	15	14	131	997	
Southern																
Beaver	;	;	;	;	;	!	:	!	;	!	1	;	!	!	;	
Garfield	:	!	;	!	!	1	;	1	ì	!	1	1	!	;	:	
Iron	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	- 1	1	:	!	1	;	;	;	i	1	Į Į	:	;	;	
Kane	0	0	;	0	0	0	0	0	;	210	9	0	.	01	1	
Millard	1 2	10	10.00	9	40	68	9/	20	99	605	14	0	∞	22	573	
Piute	е С	17	5.67	'n	23	0	œ	70	200	09	2	0	0	2	2400	
Sevier	0	0	!	ო	24	0	က	24	800	7.5	ო	0	0	ന	006	
Washington	!	;	!	;	ŀ	;	;	!	;	:	1	1	;	;	;	
Wayne	1	¦	;	!	!	;	;	!	I I	1	-	1	:	;	:	İ
REGIONAL TOTALS	4 5	27	6.75	14	87	68	87	114	131	950	28	0	6	37	543	1
Northeastern		•		•	((Ċ	Ċ		1. •	-	c		5		
Daggett		9	:	>	>	o .) 	> (I I	CTT	010	> (n (L 1	l I	
Duchesne	0 0	0 ;	1	0	0	0	o ,	<u></u> ٥	1 6	400	/7	o 0	-	/7	1 0	
		2	10.00	٥		0	{ .	= :	1000	497	27	٥	٥	3	40	1
REGIONAL TOTALS		10	10.00			0	·	10	1000	1012	90	5	7	60	QT	1
Southeastern					,		1	,	1		•	¢	,	•	Č	
Carbon		65	9.29	σ	58	Ó	25	93	3/2	415	£1	Þ	٥	T	170	
Emery		! ·	: 1	1 1	1 :	1 1	1 (1 T	I (1 1	1 (1 I	1	;	ı (· ·	
Grand	5 7	36	7.20	٠ ا	16		13	52	274	, ص ر	~ ! '	၁	ν, -	07	/IO	48
San Juan	- [18	9.00		77	17	30	95	317	473			⊅	67	431	3
REGIONAL TOTALS	14 16	119	8.50	25	121	33	74	240	324	984	3/	20	13	28	24.1	1
STATE TOTALS	93 111	937	10,08	115	570	415	641	1507	235	5081	272	69	45	386	. 556	

le 2. Trend of chukar young per 100 adults ratios, 1962-72.

Region and					Year							
County	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	
Northern Region												
Box Elder	1	214	535	410	416	360	455	900	247	529	492	
Cache	!	467	625	700	317	220	t 1	1011	250	258	:	
Davis	;	1	1	0	200	0	1	1100	:	;		
Morgan	;	933	009	135	680	88	315	899	178	950	1	
Rich	1	780	950	1	1	:	1	ŀ	;	;	t 1	
Summit	ł	;	!	254	1	350	ł	1	525	1	!	
Weber	-	1200	1	1	900	1	i	91	ļ	286	1 0	
Regional Totals	1	350	574	210	429	276	420	510	267	382	475	
Central Region												
Jush	006	56	300	!	ţ	475	450	209	421	594	420	
Salt Lake	809	208	929	8	I.	671	409	372	0	367	i P	
Sanpete	292	758	375	!	;	368	400	194	256	171	216	
Tooele	1267	628	!	!	1	i	1733	1360	922	372	154	
Utah	860	300	405	1	;	;	240	463	360	352	552	
Wasatch	1	;	480	!	;	1	1	167	;	;	;	
Regional Totals	729	201	473	643	638	445	407	965	471	386	208	
Southern Region												
Beaver	;	!	!	!	;	1	!	;	;	;	!!	
Garfield	183	530	200	160	!	;	1	!	495	275	[]	
Iron	i i	1	!	!	1	200	:	¦	;	1	!	
Kane	512	320	!	;	;	1	;	ł	;	1	4 1	
Millard	1038	390	1	770	514	;	1108	812	700	255	99	
Piute	900	650	009	!	1	;	!	;	:	550	500	
Sevier	1425	179	857	1350	833	;	1	;	;	1	800	
Washington	!	099	!	;	817	315	!	;	1	;	T 1	
Wayne	1036	619	364	0	;	;	ł	į	8	67	-	
Regional Totals	643	392	548	462	809	315	1108	812	581	245	131	
Northeastern Region					1		;	1	,			
Daggett	182	;	!	;	1056	436	709	1250	150	i I	!	
Duchesne	833	;	1	833	;	0	515	548	I I	120	l f	
Uintah	1	!	1	009	1273	1075	482	463	450	678	-	
Regional Totals	235	8	:	654	1217	485	540	575	279	625		
Southeastern Region		!	ļ	C	1	ļ	1000	ļ	383	727	37.0	
Carbon	! !	:		2		1 1		l i	9 6	r F	N ~~ ~~	
Emery	797		722	300	1100	317	1	1	900	1	1 1	49
Grand	;	!	!	825	539	367	1000	1	944	202	4/7	9
æ	151	-	400	375	678	57	590	138	234	161	317	
Regional Totals	169	-	655	389	604	269	635	138	338	226	324	
STATE TOTALS	434	292	571	338	638	306	523	511	382	311	235	

	-72.
	1963-
	from
	size
	brood
	mean
	chukar
_	of
	Trend
	а Э
	Tab1e

Dogion and						Year				
	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Northern					1	(ć	6	1	77
Box Elder	!	;	1 1	!	7.53	10.09	8.00	10.59	0.1/ 2./3	13,23
Cache	!	l l	!	1	00.0	! !	12.00	70.00		
Davis	;	:	:	:	; ;	t I	10.50		, .	1 1
Morgan	;	1	;	1	06./	!	10.1/	8.00	9.50	1 1
Rich	!	;	1	:	;	;	;	;	!	• •
Summit	1	:	;	;	7.00	1	;	7.33	;	1 1
Weber	;	1		1	1	:	:		20.0	
REGIONAL TOTALS	7.88	9.08	7.50	7.38	7.52	10.09	6.67	9.91	6.25	13.23
Central										
Juab	1	1	:	:	7.00	9.00	11.62	5.25	9.33	9,53
Salt La ke	!	1	;	1	;	11.25	16.50	;	1	•
Sanpete	;	;	:	;	7.00	00.9	;	6.67	7.00	9.00
Tooele	;	;	:	1	;	17.33	14.50		11.29	10.83
Utah	;	i i	;	;	;	5.62	9.40		8.14	7.50
Wasatch	:	ī	:	•		:	11.50	;	;	1
REGIONAL TOTALS	7.92	6.00	6.43	8.50	7.00	9.22	11.38	9.00	9.88	9.98
Southern										
Beaver		1	;	!	1 ·	i i	; ;	s 6	1 6	
Garfield	!	!	!	!	2.00	;	;	8.20	5.00	•
Iron	1	:	;	!	!	;	!	;	0	:
Kane	;	;	;	1	:	1	:			
Millard	;	;	;	;	!	15.43	6.67		11.50	10.00
Piute	;	;	!	I I	:	;	!		5.50	2.6/
Sevier	1	1	ŀ	;	;	;	;	;	;	:
Washington	!	!	!	;	1 1	!	!	;	; ;	•
- 1		:		- 1	:	- 1	; }	:	9.00	1 10
REGIONAL TOTALS	8.98	11.50	6.17	8,83	2.00	15.43	9.67	8.20	7.80	6.75
Northeastern Daggett	!	;	1	. !	7.71	19.00	15.50	4.00	1	!
Duchesne	;	;	t I	;	;	7.64	11.50	!	00.9	;
Uintah	;	:	i I	;	1	!	9.00	4.50	7.00	10.00
REGIONAL TOTALS	;	:	8.50	10.00	7.71	8.58	12.00	4.33	98.9	10.00
Southeastern	!	; ;	;	;	;	10 00	;	7,67	7.29	9.29
A CALL	;	,	;	1	7 33) 	;	00.6		1 1
Grand	;	;	;	;	9.35	10,00	;	7.20	8,33	7.20
San Juan	1	;	1	:	6.50	1	09.9	6.50	5.82	00.6
REGIONAL TOTALS	9.83	10.48	9.25	9.68	8.48	10.00	6.60	7.36	6.88	8.50
STATE TOTALS	8.50	90.6	7.52	9.27	7.91	10,16	10.47	8.34	7.81	10.08
							!			

Trend of chukars observed per 100 hours ratios, 1967-72 Table 4.

Dealon and			Vear				
County	1967	1968	1969	1970	1971	1972	
Northern Region	,						
Box Elder	165	274	1322	386	11	374	
Cache	291	0	911	175	358	;	
Davis	20	!	009	!	!	;	
Morgan	107	;	1670	200	262	;	
Rich	0	0		!	!	;	
Summit	19	;	1	i i	ł	1	
Weber	:	;	928	-			
Regional Totals	125	288	1196	445	132	374	
Central Region							
	230	367	450	197	1724	613	
Salt Lake	270	830	354	15	108	1	
Samete	202	847	91	371	475	527	
	;	889	730	1022	592	2044	
110011	;	567	938	177	270	233	
Elasatch	;	5	867	· C	1 1	3 :	
Regional Totals	222	285	408	320	510	766	
Beaver	;	;	0	ł	t i	;	
Garfleld	300	;	0	761	123	;	
Iron	;	;	ł	,	0	;	
Kane	;	;	0	;	;	;	
Millard	;	;	3950	;	529	573	
Piute	0	;	0	0	650	2400	
Sevier	;	ł	1	ľ	1	900	
Washington	372	!	0	1	1	;	
Wayne	;	1		•	909		
Regional Totals	216	!	787	1448	259	543	
Northeastern Region							
Daggett	2143	741	2700	1333	0	;	
Duchesne	7	965	438	0	41	1	
Uintah	115	200	255	110	350	48	
Regional Totals	199	433	396	82	162	16	
Southeastern Region	Ġ	C L			6	102	
carbon	2007	000		1	7071	170	
Emery	3330	; د	>	1 6	1 .	1 C	
Grand		37	1	693	643	7.10	51
m		1144	438	731	321	431	
Regional Totals	1550	284	211	816	364	541	
STATE TOTALS	328	382	516	459	325	556	

Table 5. Summary of chukar hunter success and distribution of harvest and hunting pressure by region and county, 1972.

			Dinde	Birds per	Birds per	% of	% of
Region and	Hunters	Days	Birds	hunter-day	hunter*	pressure	harvest
County	reporting	hunted	bagged	nuncer-day	Huncer -	presser	
Northern					2.56	07 51	20 50
Box Elder	187	565	499	0.88	2.56	27.51	30.59
Cache	63	140	105	0.75	2.33	6.82	6.44
Davis	18	36	32	0.89	1.85	1.75	1.96
Morgan	23	60	51	0.85	1.00	2.92	3.13
Rich	8	9	6	0.67	0.00	0.44	0.37
Summit	11	54	69	1.28	9.57	2.63	4.23
Weber	38	79	87	1.10	2.65	3.85	5.33
REGIONAL TOTALS	348	943	849	0.90	2.52	45.91	52.05
Central							
Juab	30	60	52	0.87	2.87	2.92	3.19
Salt Lake	49	140	90	0.64	2.12	6.82	5.52
Sanpete	12	19	12	0.63	1.20	0.93	0.74
Tooele	162	363	280	0.77	2.62	17.67	17.17
Utah	78	166	112	0.67	1.62	8.08	6.87
Wasatch	8	13	3	0.23	0.75	0.63	0.18
REGIONAL TOTALS	339	761	549	0.72	2.03	37.05	33.66
Southern							
Beaver	1	2	0	0.00	0.00	0.10	0.00
Garfield	ī	2	1	0.50	0.00	0.10	0.06
Iron	4	19	33	1.74	0.00	0.93	2.02
Kane	0	0	0	0.00	0.00	0.00	0.00
Millard	17	42	56	1.33	5.29	2.04	3.43
Piute	4	7	9	1.29	3.50	0.34	0.55
Sevier	22	56	16	0.29	0.86	2.73	0.98
Washington	1	2	3	1.50	1.67	0.10	0.18
Wayne	6	23	20	0.87	0.00	1.12	1.23
REGIONAL TOTALS	56	153_	138	0.90	1.76	7.45	8.46
Northeastern				<u> </u>			
	4	4	0	0.00	4.00	0.19	0.00
Daggett	11	39	23	0.59	5 .1 7	1.90	1.41
Duchesne Uintah	14	35	24	0.69	1.00	1.70	1.47
REGIONAL TOTALS	29	- 78	47	0.60	2.75	3.80	2.88
			<u>'.</u>				
Southeastern	14	42	26	0.62	1.94	2.04	1.59
Carbon	16	42 25	1	0.04	0.00	1.22	0.06
Emery	7 12	25 26	11	0.42	1.00	1.27	0.67
Grand .	13	26 4	1	0.25	0.00	0.19	0.06
San Juan	<u>3</u> 	97	39	0.40	1.43	4.72	2.39
REGIONAL TOTALS						1.02	0.55
Unknown counties		21	9	0.43	0.00		
Mixed counties	1	1	0	0.00	0.00	0.05	0.00
STATE TOTALS	827	2054	1631	0.79	2.21	100.	100

^{*}Based on county of residence

Table 6. Summary of chukars bagged per hunter-day by region and county, 1965-72.

Region and County	1965	1966	1967	1968	1969	1970	1971	1972
Northern								
Box Elder	1.37	1.7 5	1.55	1.28	1.31	1.00	1,66	0.88
Cache	0.66	0.89	1.02	1.21	0.82	1.28	0.91	0.75
Davis	0.45	0.56	0.48	1.35	0.70	0.93	0.98	0.89
Morgan	0.43	0.55	1.09	2.09	1.52	1.75	1.68	0.85
Rich	0.00		1.00	0.45	0.25	1.78	1.00	0.67
Summit	1.75	0.45	0.19	0.63	1.23	0.47	0.67	1.28
Weber	0.61	0.49	0.46	0.64	0.83	0.60	0.86	1.10
REGIONAL TOTALS	1.05	1.36	1.28	1.28	1.16	1.09	1.36	0.90
Central								
Juab	0.76	0.70	0.12	1.33	1.75	1.22	1.24	0.87
Salt La ke	0.67	0.93	0.99	0.92	0.71	1.15	0.77	0.64
Sanpete	0.67	1.05	0.93	0.47	0.48	0.21	0.83	0.63
Tooele	0.69	0.69	0.54	1.34	1.46	1.30	1.45	0.77
Utah	0.36	0.36	0.31	1.06	0.58	1.05	0.48	0.67
Wasatch	0.50	0.21	1.11	1.05	0.76	0.88	0.52	0.23
REGIONAL TOTALS	0.57	0.61	0.57	1.08	1.12	1.17	1.04	0.72
Southern	•							<u></u>
Beaver	0.00		0.00	1.00	0.00	0.50		0.00
Garfield		1.00	0.55	1.25	2.00	2.57	0.00	0.50
Iron	0.00		U.JJ			2.00	1.17	1.74
Kane	5.00		0.00			0.00	2.00	0.00
Millard	1.35	0.90	0.00	3.77	2.53	2.10	1.63	1.33
Piute	0.28	1.00	0.83	0.40	1.50	0.42	1.15	1.29
Sevier	0.28	0.51	0.03	0.40	0.35	0.42	0.34	0.29
	0.00		0.00	0.00	0.60	0.00	0.00	1.50
Washington						0.44	0.80	0.87
Wayne TOTAL'S	0.10	0.78	1.75 0.69	0.60 1.29	$\begin{array}{c} 0.00 \\ 1.22 \end{array}$	1.29	0.86	0.90
REGIONAL TOTALS	0.54	0.72	0.69	1.29	1.22	1.29	0.00	0.90
Northeastern								
Daggett	0.17	0.82	2.50	1.95	0.11	0.00	0.00	0.00
Duchesne	0.36	1.62	1.21	0.69	1.53	0.29	0.88	0.59
Uintah	1.17	2.33	1.56	1.27	1.12	0.60	0.81	0.69
REGIONAL TOTALS	0.91	2.04	1.44	1.22	1.16	0.46	0.82	0.60
Southeastern								
Carbon	0.46	1.75	0.60	1.27	0.62	0.54	0.26	0.62
Emery	0.47	1.42	1.32	1.52	1.30	0.46	0.79	0.04
Grand	0.38	2.07	0.92	1.15	0.69	1.72	0.63	0.42
San Ju a n	2.00	1.56	0.50	1.64	0.67	5.00	0.11	0.25
REGIONAL TOTALS	0.46	1.85	0.85	1.29	0.80	0.94	0.44	0.40
Unknown counties	0.02	1.02	0.93	0.82		2.00	1.49	0.43
Mixed counties	1.85		0.78			0.00		0.00
STATE TOTALS	0.78	1.13	0.97	1.19	1.13	1.12	1.10	0.79

Table 7. Distribution of chukar harvest by region and county, 1965-72.

Region and								7.070	
County	1965	1966	1967	1968	1969	1970	1971	1972	
Northern									
Box Elder	38.36	37.25	46.03	25.64	23.76	16.49	25.52	30.59	
Cache	4.54	5.04	6.42	9.33	3.75	12.09	4.69	6.44	
Davis	1.31	1.35	1.01	3.83	0.97	2.35	1.78	1.96	
Morgan	0.87	0.60	3.65	6.86	6.02	3.41	4.76	3.13	
Rich	0.00		0.34	0.14	0.13	0.59	0.21	0.37	
Summit	1.91	0.18	0.29	0.71	0.97	0.29	0.49	4.23	
Weber	5.46	1.35	1.22	1.36	4.08	1.39	3.36	5.33	
REGIONAL TOTALS	52.45	45.77	58.96	47.87	39.68	36.61	40.80	52.05	
Central									
Juab	1.91	1.38	0.17	1.59	6.25	2.64	3.57	3.19	
Salt Lake	8.91	6.70	6.38	6.49	4.28	6.41	3.46	5.52	
Sanpete	2.73	0.74	1.09	0.40	0.31	0.15	1.01	0.74	
Tooele	7.43	6.85	5.20	9.25	27.28	21.80	30.42	17.17	
Utah	6. 1 7	4.86	4.03	13.27	5.76	11.69	5.59	6.87	
Wasatch	0.22	0.11	2.48	1.11	0.64	0.77	1.15	0.18	
REGIONAL TOTALS	27.37	20.64	19.35	32.10	44.52	43.46	45.2 1	33.66	
Southern									
Beaver	0.00		0.00	0.06	0.00	0.04		0.00	
Garfield		0.11	0.46	0.14	0.20	0.66	0.00	0.06	
Iron	0.00					0.37	0.24	2.02	
Kane	1.64		0.00			0.00	0.07	0.00	
Millard	1.91	1.67	0.59	4.59	6.53	5.31	4,44	3.43	
Piute	0.60	0.43	0.42	0.06	0.69	0.18	0.80	0.55	
Sevier	1.42	1.24	3.57	2.27	1.27	3.22	1.40	0.98	
Washington	0.00		0.00	0.00	0.08	0.00	0.00	0.18	
Wayne	0.27	0.25	0.59	0.09	0.00	0.26	0.14	1.23	
REGIONAL TOTALS	5.84	3.70	5.62	7.20	8.77	10.04	7.10	8.46	
Northeastern									
Daggett	0.05	0.32	0.21	1,11	0.03	0.00	0.00	0.00	
Duchesne	0.27	3.51	2.18	0.71	1.33	0.37	0.98	1.41	
Uintah	2.95	11.39	4.57	3.37	1.90	1.06	1.33	1.47	
REGIONAL TOTALS	3.27	15.22	6.97	5.19	3.26	1.43	2.31	2.88	
Southeastern		•							
Carbon	2.02	5.96	0.63	1.87	1.22	1.61	0.38	1.59	
Emery	0.82	0.60	1.05	1.16	1.43	0.44	0.52	0.06	
Grand	0.66	6.03	1.51	1.96	0.87	2.97	0.84	0.67	
San Juan	0.11	0.50	0.34	0.51	0.25	0.37	0.07	0.06	
REGIONAL TOTALS	3.61	13.09	3.52	5.50	3.77	5.39	1.82	2.39	
Unknown counties	0.05	1.60	2.22	2 .1 3		3.08	2.76	0.55	
Mixed counties	7.38		3.36			0.00		0.00	
CTATE TOTAL	100	100	100	100	100	100	100	100	
STATE TOTALS	100		100						

Table 8. Distribution of chukar hunting pressure by region and county, 1965-72.

									
Region and	1965	1966	1967*	1968	1969	1970	1971	1972	
County					·- ·- ·-				
Northern									
Box Elder	23.03	27.24	28.64	23.98	20.47	18.48	16.95	27.5 1	
Cache	6.58	6.70	6.08	9.20	5.15	10.62	5.71	6.82	
Davis	3.88	2.50	2.03	3.38	1.55	2.84	2.01	1.7 5	
Morgan	1.41	1.36	3.24	3.92	4.46	2.18	3.13	2.92	
Rich	0.24		0.34	0.37	0.58	0.37	0.23	0.44	
Summit	0.71	0.79	0.29	1.35	0.89	0.70	0.81	2.63	
Weber	8. <u>5</u> 8_	3.52	2.55	2.54	5.53	2.59	4.29	3.85	
REGIONAL TOTALS	44.43	42.11	44.35	44.74	38.63	37.78	33.13	45.91	
Central									
Juab	1.76	2.84	1.38	1.42	4.03	2.43	3.17	2.92	
Salt Lake	11.99	8.40	6.24	8.42	6.82	6.26	4.94	6.82	
Sanpete	2.82	1.25	1.13	1.01	0.72	0.78	1.35	0.93	
Tooele	6,82	10.67	9.36	8.25	21.15	18.81	23.24	17.67	
Utah	11.99	13.85	12.39	14.98	11.14	12.55	12.99	8.08	
Wasatch	0.82	0.79	2.15	1.25	0.95	0.99	2.43	0.63	
REGIONAL TOTALS	36.20	37.80	32.64	35.34	44.81	41.81	48.11	37.0 <u>5</u>	
Southern Beaver	0.12		0.04	0.07	0.06	0.08		0.10	
Garfield		0.11	0.81	0.14	0.12	0.29	0.12	0.10	
Iron	0.12		0.00			0.21	0.23	0.93	
Kane	0.12		0.12			0.00	0.04	0.00	
Millard	1.06	1.70	2.19	1.45	2.91	2.84	3.01	2.04	
Piute	0.94	0.79	0.49	0.17	0.52	0.49	0.77	0.34	
Sevier	2.59	2.27	3.48	4.60	4.05	4.12	4.48	2.73	
Washington	0.12		0.45	0.07	0.14	0.08	0.23	0.10	
Wayne	1.06	0,68	0.32	0.17	0.29	0.66	0.19	1.12	
REGIONAL TOTALS	6.13	5.55	7.90	6.66	8.09	8.77	9.07	7.45	
			-			-			
Northeastern	0.07	0 60	0.00	0.68	0.26	0.12	0.04	0.19	
Daggett	0.24	0.68	0.08	1.22	0.20	1.40	1.24	1.90	
Duchesne	1.06	3.18	1.74	3.18	1.93	1.98	1.81	1.70	
<u>Uintah</u>	2.47	4.31	2.84	5.07	3.17			3.80	
REGIONAL TOTALS	<u>3.77</u>	8.17	4.66	3.07	J.1/	3.50	3.07	3.00	
Southeastern	•					_			
Carbon	2.12	2.72	1.01	1.76	2.22	3.33	1.62	2.04	
Emery	0.94	0.79	0.77	0.91	1.24	1.07	0.73	1.22	
Grand	1.29	1.59	1.58	2.03	1.41	1.93	1.47	1.27	
San Juan	0.12	0.79	0.65	0.37	0.43	0.08	0.73	0.19	
REGIONAL TOTALS	4.47	5.89	4.01	5.07	5.30	6.42	4.56	4.72	
Unknown counties	3.17	0.45	2.31	3.11		1.73	2.05	1.02	
Mixed counties	1.88		4.13			0.00		0.05	
STATE TOTALS	100	100	100	100	100	100	100	100	1
			_						

^{*}Distribution of hunting pressure for 1967 and later is based on hunter-days rather than number of hunters reporting.

Table 9. State-wide summary of chukar partridge harvest statistics, 1956-72.

Year	Total hunters	Total harvest	Hunter days afield	Chukars per hunter-day	Chukars per hunter
<u>lear</u>	nunters	narvest	days afferd	nunter-day	nuncer
1956					0.91
1957				** **	0.92
1958	11,124	19,578	25,100	0.78	1.76
1959	11,154	8,700	26,364	0.33	0.78
1960	13,252	21,733	30,610	0.71	1.64
1961	14,046	20,821	35,675	0.58	1.48
1962	11,638	33,500	35,010	0.95	2.88
1963	14,532	42,806	40,824	1.05	2.95
1964	16,090	42,974	39,971	1.08	2.67
1965	16,431	35,335	45,067	0.78	2.15
1966	17,133	61,370	54,448	1.13	3.58
1967	17,485	48,906	50,671	0.97	2.80
1968	20,744	73,218	61,402	1.19	3.53
1969	22,529	80,917	71,674	1.13	3.59
1970	18,013	56,053	49,911	1.12	3.11
1971	17,917	61,151	55,378	1.10	3.41
1972	16,685	36,925	46,502	0.79	2.21

TOTALS (1958-72)	238,773	643,987	668,607	0.96	2.70
AVERAGES (1958-71)	15,863	43,362	44,436	0.92	2.38

1972.
Summary,
Check
Bag
Field
Chukar
10.
ıble

		T TV	UIIME				S S	COMPLETE H	HINTS		
Kegion and	Total	Total	ALL HONES	Total	Birds/	Total Complete	Total		Total	Birds/	Birds/
County	Parties	Hunters	Hours	Birds	100 hrs.	Hunts	Hunters	Hours	Birds	100 hrs.	Hunter
Northern											
Box Elder	83	206	1,077	263	24	78	189	196	256	26	1.35
Cache	22	53	234	41	18	21	50	222	36	16	0.72
Davis	;	i i	1	;	!	;	;	;	;	;	.¦
Monos	į	Î	i	1	1	1 1	;	!	;	1	;
Mor gan	1				I	1	;	1	!	;	;
Kich	;	! !	!		1	l I	l I		:		1
Summit	! '	1 '	1 1	; '	!	f +	! '	(L	1 0	i 1	1
	-	3	15	0	t i	T	2)	C]	٥	:	
REGIONAL TOTALS	106	262	1,326	304	23	100	242	1,204	292	54	1.21
Central			٠					,	i		1
Juab	43	125	857	97	11	36	101	771	79	10	0.78
Salt Lake	ო	9	18	ന	17	0	0	0	0	:	!
Sanpete	1	;	ŀ	;	;	! !	!	;	;	;	;
Tooele	77	139	1.225	75	9	34	110	1,087	99	9	09.0
Utah	· 4	_	16	ന	19	0	0	0	0	;	;
Wasatch	. !	1	;	;	;	;	!	1	!	;	;
REGIONAL TOTALS	97	277	2,116	175	8	70	211	1,858	145	8	0.69
Southern											
Beaver											
Garfield											
Iron							 				
Kane					NO DA	TA COLLE	CIED				
Millard											
Piute											
Sevier											
Washington											
Wayne											
REGIONAL TOTALS											
Northeastern											
Daggett	;	1	1	1	;		;	!	!	;	;
Duchesne	1	;	!	1	;	1 1	1	1	1	:	1
Hintah	-	7	12	2	17	0	0	0	0	;	1
REGIONAL TOTALS		77	1	2	17	0	0	0	0	:	1
Southeastern											
Carbon	ve		7°E	Y	18	7	11	32	9	19	0.55
Emerv	9	12	77	18	41	0	12	77	18	41	1.50
Grand	· ;	;	1	1	;	;	;	1	!	;	i i
San Illan	;	!	1	;	;	1 1	ļ	1	1	;	!
REGIONAL TOTALS	12	28	78	24	31	10	23	9/	24	32	1.04
						0	170	200	177	3 -	100
STATE TOTALS	216	271	3,532	505	14	087	4/4	3,138	40F	ĊŢ	٥. ٧/

Table 11. Chukar field bag check trend as determined via field bag checks, 1967-72.

	10	1967	19	1968	19	696	19	1970	19	1971	19	1972
Region and	ls/	Birds/	Birds/	Birds/	1	Birds/	Birds/	Birds/	Birds/	Birds/	Birds/	Birds/
County	100 hrs.	Hunter	100 nrs.	Hunter	TOO ULS.	Hunter						
Northern			,	,	;	,	;	ć			ò	L C
Box Elder	16	0.79	16	0.90	20	1.08	20	0.86) T	. 8 . 8	57	1.35
Cache	22	06.0	54	0.89	14	0.47	1	1 .	53	•	2	0.72
Davis	6	0.27	20	0.50	;	;	12	0.47	t I	ı	1	:
Morgan	;	1	!	;	1	!	37	2.86	36	1.00	:	:
Rich	1	1	100	1.00	;	1	1	;	1	!	1	;
Summit	33	99.0	28	1.00	i I	!	96		:	1	!	;
Weber	0	0	;	;	100	0.50	7	0.17	l I	1	0	0
REGIONAL TOTALS	16	0.78	17	0.90	18	0.91	21	- 1	18	0.90	23 .	1.21
Central												
Juab	62	1.25	9/	3.18	48	3.72	20	1.08	54	1.72	11	0.78
Salt Lake	0	0	0	0	;	!	63	2.00	30	1.00	17	:
Sanpete	;	1	77	1.17	;	;	5	0.25	10	0.33	!	į
Tooele	43	1.60	65	2.73	69	1.45	38	2.35	14	1.18	9	0.60
Utah	;	1	10	0.30	28	0.81	10	0.31	:	i	19	0.43
Wasatch	;	ŀ	1	1				1		1	:	
REGIONAL TOTALS	42	1.42	55	1.98	41	1.49	21	0.96	16	1.28	80	0.69
Southern	 											
Beaver	;	1	;	1	:	1	!	!	:	ţ 1	!	!
Garfield	;	!	1	1	:	1	;	;	:	1	;	!
Iron	1	1	1	!	;	1	1	!	ţ	1	l T	:
Kane	;	!	1	l l	!	i	27	0.75	1	!	1	1
Millard	1	1	72	6.23	;	;	54	3.24	33	2.93	! !	;
Piute	1	t I	!	!	t I	;	;	;	;	;	1 1	1
Sevier	;	!	1	;	!	!	;	!	!	:	:	1
Washington	0	0	25	1.00	!	;	!	:	:	:	!	1
Wayne				-	;	-	:	1	:	11	1	;
REGIONAL TOTALS	0	0	72	6.35	1	: }	44	1.78	33	2.93	:	1
Northeastern	97	1.67	116	2,40	;	:	39		67	0,41	;	;
			277	3.0	7	01.0			90	0.83	!	;
Unintah	27	1.55	21	1.53	† O	0.55	15	0.55	<u>.</u> 69	0.55	17	0.50
REGIONAL TOTALS	33	1.52	47	2.12	8	07.0	15		52	0.45	17	0.50
Southeastern	:											
Carbon	1	;	216	2.38	;	;	:	:	11	0.25	18	0.55
Emery	!	1	t i	;	! •	!	!	!	0	0	41	'n.
Grand	28	2.50	200	2.00	!	;	73	2.20	16	09.0	!	
San Juan			47	1.46	49	2.23	:	;	1	1	:	-
REGIONAL TOTALS	28	2.50	93	1.97	67	2.23	73	2.20	11	0.40	31	1.04
STATE TOTALS	19	0.89	26	1.20	20	0.98	23	0.94	19	1.05	15	0.97

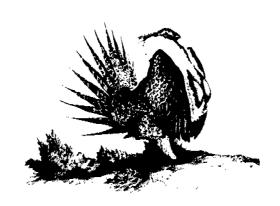
SAGE GROUSE

SUMMARY

Harvest data for 1971 and strutting ground counts in the spring of 1972 indicated a breeding population level for 1972 comparable to or slightly higher than in 1971. Production indexes, both mean brood size and young per 100 adults, were lower than both 1971 and the average indicating a reduced fall population.

Harvest data reflected the expected decline in the fall population level as both total harvest and hunter success declined. Total hunters and hunter-days afield in 1972 were slightly higher than in 1971.

The short-term trend of both inventory and harvest statistics has been downward since a peak in 1969 on a state-wide basis.



Strutting Ground Counts

The trend of the sage grouse breeding population as indicated by strutting ground counts is shown in Table 1 of this section. Results of this survey for 1972 compared to 1971 and the 1967-71 average as follows:

		Percent c	hange from
	<u>1972</u>	<u>1971</u>	Average
Number of grounds counted	113	+5	+57
Total grouse counted	2,472	+5	+41
Average male grouse per ground	21.9	+0.4	- 6
Percent change from previous year			
(comparable grounds)	-0.7		

These counts indicate that the breeding population in 1972 was comparable to 1971. Harvest data for 1971 suggest a higher breeding population. The increase in total strutting grounds and total grouse counted reflects a continued effort in locating and mapping strutting grounds as part of a sage grouse habitat inventory.

Brood Counts

Results of this survey for 1972 are found in Table 2. Long-term trends of young-adult ratios, mean brood size and sage grouse observed per 100 hours are shown in Tables 3-5. Indexes for 1972 compared to 1971 and the average as follows:

		Percent	change from
	<u>1972</u>	<u>1971</u>	Average
Total sage grouse counted	3,431	+10	+16
Young per 100 adults	100	-28	-34
Mean brood size	4.16	-10	- 9
Sage grouse observed per 100 hours	373	- 3	+ 1
Total hours effort	921	+13	+16

More grouse were counted during brood surveys due to increased effort. Production in terms of both mean brood size and young per 100 adults was lower than both 1971 and the average. A reduction in fall population level was indicated.

Harvest

Hunter Questionnaire

Results of the 1972 hunter questionnaire are shown in Table 6. Long-term trends of sage grouse bagged per hunter-day, percent of harvest and percent of pressure (hunter-days) by county are found in Tables 7-9 and total state-wide harvest statistics in Table 10. The 1972 hunting season compared to 1971 and the average as follows:

	<u>1972</u>	Percent 1971	change from Average
Sage grouse hunters	13,040	+ 1	+57
Sage grouse harvested	15,983	-20	+40
Hunter-days afield	22,232	+ 3	+78
Sage grouse per hunter	1.23	-21	- 9
Sage grouse per hunter-day	0.72	-23	-22

Harvest information reflected the reduction in the fall population level from 1971 indicated by inventory data. Even though hunting pressure increased slightly total harvest and hunter success, both per day and per hunter, declined from 1971. Total harvest was above average while hunter success was below average.

Long-term sage grouse harvest trends are shown in Figure 1.

Field Bag Checks

A summary of field-bag-check data for 1972 is shown in Table 11. Hunter success trends determined via this method since 1966 are shown in Table 12. Results of the 1972 survey compared to 1971 and the average as follows:

		Percent	change from
	<u>1972</u>	<u>1971</u>	Average
Total hunters checked	2,496	-16	+13
Total hours hunted	10,620	-13	+18
Sage grouse per hunter			
(complete hunts)	0.71	- 4	-17
Sage grouse bagged per 100 hours	15	-12	-29
Average hours per hunter-day			
(complete hunts)	4.6	+ 2	+18
Hours hunted per grouse bagged	6.9	+15	+35

Hunter success (per day) shown by this survey was similar to that shown by question-naire and was lower than 1971 and the average. The average hours per hunter-day index was similar to 1971 but higher than average. More time was required for each grouse bagged in comparison to both 1971 and the average.

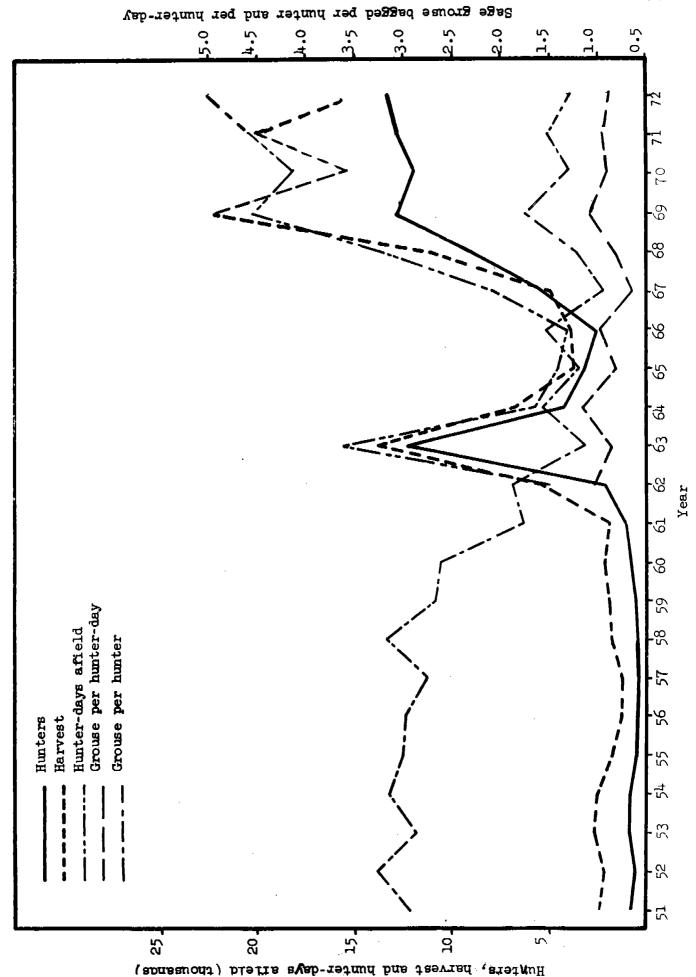


Figure 1 . State-wide trend of sage grouse harvest statistics,

_	
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	county
1	n and
	s by region and count
I	ount
	of sage grouse strutting ground of
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1	Table

Region and	1		1	1 3									- 1 -		
Northorn Booton	1939	1961	1961	1907	1903	1964	1962	1906	1967	1968	1969	19/0	19/1	7/61	
MOTERIA MERION															
BOX ELDER															
No. strutting grounds counted	9	10	7	e	6	9	9	∞	12	15	22	21	21	20	
Total grouse counted	219	292	218	106	155	73	96	118	152	253	299	556	479	422	
County average	36.5	29.5	31.1	35,3	17.2	12.2	16.0	14.8	12.7	16.9	30.3	26.5	22.8	21.1	
(All strutting grounds)		,													
% Change from previous year - comparable grounds	;	-2.8	-13,1	-31.4	-37.1	-33,3	+35.7	11.	-33,3	+23.1 +	+94.1	-8. 4	-14.0	-10.4	
САСИБ															
No strutting grounds counted								-		c	c	c	c	c	
derecting grounds								ન ;ે	⊣ ⊔ √	٠ <u>د</u>	7 1	7 (າ (າເ	
County County								† °	1	م د د		ر د ز		(
County average								24.0	45.0	10.0	57.5	29.5	7.77	19.0	
(Air sciucing grounds)															
% Change trom previous year -								•	+87.5	-77.8 4	+57.0	+31.1	+6.8	-16.3	
comparable grounds							i								
NAC BOOM															
Man and the second of the seco														•	
No. structing grounds counted											7	7	7	'n	
Total grouse counted											82	42	35	53	
County average															
(All strutting grounds)											42.5	22.5	5	17.7	
% Change from previous year -											1	-47.0	7	+29.0	
comparable grounds								İ					- 1		
RICH															
No. Strutting ground counted	v	ς.	v	v	4	Ľ	ď	ľ	Ľ	10	ų	٥	٢	a	
	214	207	7.05	231	330	17.0	ά	11,	13,	0400	000	20,00	, 0,70	257	
County average	75.7	60.0	•	, c	ን	27. 7.	V	77.0	+070	007	0,00	# C C	240	יים כי בי	
(All etrutting arounds)		0.00	•	0.00	•	7.	10.3	7.77	0.07	70.0	47.	40.0	34.3	7.07	
		1 201	c		ı	9	c	r		,		((
comparable grounds	:	720.1 +10	۰	-43.0	+4p./	- 38.9 -	-48.2	+74./	+/•2	-1.5+	5+84.1	- 20.02-	-12.0	-18.1	
SUMMIT															
No. strutting grounds counted				7	m	4	4	4	7	7	Ŋ	2	5	Ŋ	
Total grouse counted				129	21	51	33	33	28	71	168	185	223	152	
gu	grounds)			32.2	7.0	12.8	8.2	8.2	14.5	17.8	33.6 3	37.0 4	44.6	30.4	
															(
comparable grounds				:	-81.9	+75.7 -	35.9	0.0	+24.5	+22.8+	.8+60.1+10.1	ll II	+20.5	-31.8	53
												1			

Continued Table 1.

Region and County	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	
REGIONAL TOTALS No. strutting grounds counted Total grouse counted Regional average (All strutting grounds)	12 433 36.1	13 499 38.4	13 623 47.9	4 5	18 515 8.6	15 296 19.7	14	18 286 15.9	22 389 17.7	32 34 34 3	37 1263 34.1		3 104 27.	4 93 23.	
% Change from previous year - comparable grounds	:	+8.6	+1.8	-39.6	-5.8	-31.2	-29.3	46.7	+1.1	+7.9	+84.7	0.6-	-15.9	-15.8	
Southern Region								i							
GARFIELD No. strutting grounds counted	;	:	ţ	ţ	1	1	t 1	;	9 !		10	13	14	14	
Total grouse counted County average (All strutting % Change from previous year - comparable grounds	grounds)	(sp							117 19.5] 	96 16.0 17.9 +	213 21.3 +59.4	322 24.8 +31.0	351 25.1 -0.3	330 23.5 -6.8	
LIA VAND				:											
No. strutting grounds counted										7	∞	11	11	12	
Total grouse counted County average (All strutting ordinds)	oronn	ds.)							302	331 47.3	49 7 62.1	458 41.6	248	$\frac{311}{26.0}$	
% Change from previous year - comparable grounds	9-0-19	(2)					!	,	:	0	9.94	-14.6		+18.2	
BEAVER															
No. strutting grounds counted										7	2	7	Ω.	٠	
Total grouse counted County average (All strutting	erounds)	ds)								0 0	79 39.5	47 23.5	141 28.2	153 30.6	
% Change from previous year - comparable grounds		<i>,</i>										0 1	-49.4	+8.5	
PIUTE															
No. strutting grounds counted									 - (0	н (— г	н.	
lotal grouse counted County average (All strutting grounds)	groun	(sp							2.0	1 1	6.0	7.0	7.0	5.0	
% Change from previous year -	ı								:	i i	;	+16.7	0	-28.5	64
comparante groninas											!				

Region and 1959 1960 1961 1962 1963 1964 1965 19	1966 1967 1968 1969 1970 1971 1972
REGIONAL TOTALS No. strutting ground counted Total grouse counted Regional average (All strutting grounds) % Change from previous year - comparable grounds	5 8 8 174 175 232 34.8 21.9 29.0 -22.9 -24.1 +15.2
Northeastern Region	
DAGGETT No. strutting grounds counted Total grouse counted County average (All strutting grounds) % Change from previous year -	1 4 4 26 37 26 26.0 9.2 6.5 38.5 -28.0
DUCHESNE No. strutting grounds counted Total grouse counted County average (All strutting grounds) % Change from previous year - comparable grounds	2 3 5 27 27 74 13.5 9.0 14.8 25.9 0.0
UINTAH No. strutting grounds counted Total grouse counted County average (All strutting grounds) % Change from previous year - comparable grounds	2 0 2 4 5 6 134 98 105 63 118 67.0 49.0 26.2 12.6 19.7 31.6 -42.0 +77.0
RECIONAL AVERAGE No. strutting grounds counted Total grouse counted Regional averages (All strutting grounds) % Change from previous year - comparable grounds	2 0 2 7 12 15 134 98 158 127 218 67.0 49.0 22.6 10.6 14.5 31.6 -38.6 +32.2

Continued

Table 1. Continued
Region and County 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972
Southeastern Region
1 7 1 3 1 No. strutting grounds counted
EMERY No. strutting grounds counted 5 17 8 3 11 Total grouse counted County average (All strutting grounds) % Change from previous year - comparable grounds comparable grounds
SAN JUAN No. strutting grounds counted No. strutting grounds counted Total grouse counted County average (All strutting grounds) % Change from previous year - comparable grounds
No. strutting grounds counted
STATE TOTALS No. strutting grounds counted 12 13 13 13 18 15 16 18 22 59 78 92 108 113 Total grouse counted 433 499 623 466 515 296 227 286 389 1112 2379 2528 2354 2472 State average grouse 36.1 38.4 47.9 35.8 28.6 19.7 14.2 15.9 17.7 19.0 30.5 27.5 21.8 21.9 per strutting grounds % Change from previous year +8.6 +1.8 -39.6 -5.8 -31.2 -29.3 +6.7 +1.1 +0.9 +81.3 -8.4 -17.0 -0.7
67

Table 2. Sage grouse summer inventory summary - 1972.

	Distinct			red :	Yng.				,	17.64.01.0		l omno	Pffort		Rirds/
Region and County	Broods No. Ad. Yn	ıs Yng.	Mean Brood	Ad.	Adults Yng.	w/o Yng.	Adults		100 Ad.	Miles	Veh.	ושו	Walk (Total	100 hrs.
Northern	(c c	ć	,	Č	700	,	0	7.70	0,7	99	v	112	797
Box Elder	સ '		3,73	35 2	717	7 77	700	767	0 -	100	7 -	900	· c	777	183
Cache	ж ж		4.88	~	† †	70	75	20	1/1	107	1	7)	} ¦	} !
Davis	1		!	l '	1 '	'	`	}	1 6	ן ר ו	, (76	c	ď	111
Morgan			00.9	0	0	0	۰	ج ج	009	23	7 ;	<u>م</u>	> 6	ָ קר	777
Rich			4.69	9	œ	107	126	69	52	467	26	0 ;	≘ '	နှ ငှ	348 970
Summit	22 22 1		4.73	0	0	38	09	104	173	372	16	23	œ	/ +/	349
Weber	7		6.50	0	0	7	6	13	144	5	7	2	18	24	92
Regional Totals	81	371	4.58	41	141	396	518	512	99	1628	102	159	62	323	319
	<u> </u> 	ŀ													
Juah	2 2	15	7.50	0	21	0	2	36	1800	365	14	0	7	21	181
Solt 1 240	•	!	¦	;	1	¦			1	;	1	ļ	1	1	;
Sair Lake	~	7	7 23	٠	7	oc	13	23	177	667	7	'n	24	34	106
sanpere Tooslo	, <u>c</u>	101	קיל ניל	1 42	31	14	£ 7	133	322	196	6	٠.	œ	22	786
TOOL TO THE	17	1 !) 	5 1	r !	1 I	\	 	; ;	· ¦	1	1	ł	1
UCAII		110	206	[5	5	ά	142	145	127	22	71	30	99	364
wasatch	รไร		000		7 5	77	725	222	216	1187	16	76	9	143	34.1
Regional Totals	7 79 79	747	3.50		77	/3	124	222	0T7	7077		5	3		
Southern							,	(!	0	•	Ć	c	٢	707
Beaver	9 9	23	3.83	0	Ω	0	9	78	467	210	- ;	<u>ب</u> د	<u>-</u> ۲	~ ;	001
Garfield	12 7	26	3.25	33	77	77	83	83	93	168	$\frac{21}{1}$	Ξ.	16	φ, φ α	3,78
Iron	7 7	26	3.71	13	11	79	66	37	37	177	_	4	٦ ;	77	1133
Kane	80	32	4.00	7	2	-	11	37	336	33	7	0	12	13	253
Millard	 	}	1	ļ	!	1	ł	i	ŀ		}	<u> </u>	ł	1	¦
Piute	1	!	1	}	ł	!	;	!	!	ļ	!	!	;	¦	!
Sevier	!	1	}	1	ł	!	;	¦	1		1		!	¦	ļ
Washington	 	1	1	1	ł	1	}		!	-	1	ļ	i	!	;
Wayne	22 22	74	3,36	42	649	135	199	123	62	163	52	0	و	28	555
Regional Totals	55	194	3.53	90	114	259	404	308	9/	751	94	15	35	144	464
Northeastern		,	,	,	((ì	i	Ç T	Ċ	c	c	c	ò	37.6
Daggett		19	3.80	13	25	00	56	1/	2/3	320	0;	n (>	9 6	7 0
Duchesne	5	27	5.40	∞ .	32	14	27	59	219	943	Ç C	> :	x 0	2 9	207
Uintah	40	184	9.4	8	97	152	200	710	102	792		∄	١		12.5
Regional Totals	50 50	230	4.60	29	110	174	253	340	134	2125	140	14	16	1/0	349
Southeastern							1		1	9	Ġ	ć	č	2	000
Carbon	22 22	91	4.14	31	57	65	118	148	125	620	35	್ಲ ′	5 7	90	606
Emery	!	1	1	¦	1	!	!	1	!	!	!	· 1	-	n (! ! ! «
Grand	0 0	0	! !	0	0	2	2	0	ļ	120	9	0	2	∞ <u>;</u>	68 77:
San Juan	15 15	59	3.93	4	12	251	270	71	26	540	44			77	ł
Regional Totals	37	150	4.05	35	69	318	390	219	56	1280	82	33	26	141	432
STATE TOTALS	285 285 1187	187	4.16	214	525	1220	1719	1712	100	6971	468	245	208	921	373

Trend of sage grouse young per 100 adults, 1963-1972. Table 3.

																																69	,		
1972	83 171	1	009	55	173	144	66	1800	!	177	322	1 1 7	145	216	797	93	37	336]	<u> </u>	,		76		273	219	105	134	125	!	!	26	56	100
1971	75	1	58	137	158	325	135	ŀ	1	288	188	1 9	212	208	250	93	183) 1		!	•	!	1 %	Slá	3	168	230	339	278	145	!	275	70	81	138
1970	62 10	;	400	133	211		76	117	;	87	215	1 ;	205	170	1	107	214	300	8	!	!	I I	27.7	104	700	344	11	419	305	167	100	l l	28	30	117
1969	153 71	. 1	533	86	121	208	128	300	;	191	395	1 1	83	137	169	238	550	200	2	:	1 1	107	7 1	1/0	707	493	156	450	383	250	164	1	37	49	160
1968	162	; ;	;	92	133	;	132	009	;	0	416	;	00	103	1	263		1 1	! i	!	1	82	1 1	3/1	/07	560	209	969	977	512	300	;	214	369	178
1967	176) !) !	160	8 2	68	650	159	125	¦	119	200	1	101	104	173	132	107	2	;	:	!	86	1 6	140	55	145	140	237	176	433	t 1	!	61	94	141
1966	93) I	50	2001	140	; ;	129	400	ł	427	617	1	200	313	1	171	4 1	1 1	I 1	!	l l	322	1 0	124	101	216	200	612	304	533	800	;	1	009	179
1965	200	3 1	100	3	243	411	171	;	¦	207	286	l 1	450	233	7.	168	000	700	•	:	;	350	1 6	270	169	676	273	304	268	500	0	800	:	350	196
1964	104) i	_	1,4	267	550	120	;	ļ	159	250	1	179	171		171	777	<u>.</u>	1 (1 (900	1	357	1 (188	138	۲/۲	254	420	286	C	' !	400	38	20	130
1963	143	7 1	; ;	1.	156	ָ ֭֭֭֭֭֭֭֭֭֭֭֭֭֭֓֞֞֞	113	200	1 2	200	; ;	400	20	78	5	007	ł	;	!	1	1	;	1	-	02	0	115	287	252	350) !) !	1	158	186	123
Region and County	Northern Region Box Elder	Cache	Davis	Morgan	Kich	Mahar	Regional Totals	1 24		Sannote	Toolle	Utah	Wasatch	Regional Totals	Southern Region	Beaver	Garfield	Iron	Kane	Millard	Piute	Sevier	Washington		Regional Totals	Northeastern Region	Daggert	Duchesne Hintsh	Regional Totals	Southeastern Region	Kat Doi:	Emery Cress	Grand San Tuan	Regional Totals	1

Table 4. Trend of sage grouse mean brood size, 1963-1972.

Region and County	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	
Northern Region	:			ć	3	6	2	13	7,	3 03	
Box Elder	4.48	3.97	00.4	3.82 6.50	4.U4 6.80	3.80 6.00	5.10 4.60	4.13 5.00	4.50	4.88	
Davie	3 :	2) ! !) 1	; ;	; ;	1	;	1	1	
DAVIS	2 86		7 00	5.00	7.00	!	5,33	4.00	5.50	00.9	
Rich	3.60	3,25	5.00	4.37	5.00	4.07	5.42	4.68	4,44	7.69	
Summit	4.67	5.33	2.66	5.25	4.47	3.94	5.91	5.00	5.58	4.73	
Weber	:	5.50	4.11	;	6.50		3,38	;	4,33	6.50	
Regional Totals	4.12	4.07	4.54	4.90	4.43	3.94	5,18	4,55	4.98	4.58	
Central Region				-		6	6	C L		7 50	
Juab	4.00	;	:	4.00	;	00.0	7.00	00.0	1 1		
Salt Lake	2.00	:	! 1	1	¦	:	1 ·	: :	; ;	20	
Sanpete	2.00	3.58	88'9	5.88	5.67	; [5.40	4.50	00.0).33 / 01	
Tooele	:	2.50	2,00	6.17	2.00	5.75	29.6	4,44	4. IY	T8.4	
Utah	4.00	;	ļ	;	;	;	1	ļ .	; (
Wasatch	4,36	5,66	4.50	2 60		4.29	4.64	4.52	7.94	3.06	
Regional Totals	4.25	4.10	6.07	5.76	5,13	4.46	5.03	4.45	3.94	3.90	
Southern Region											
	4.93	3,83	3,83	t t	7.60	1	5.44	;	2.00	3,83	
Garfield	3.82	5.52	4,44	5,10	3.50	4.10	3.86	3.67	3.73	3.25	
Iron	1	3.00	1	;	4.00	! 	;	3.67	4.33	3.71	
Kane	i i	;	1	;	;	:	5.00	3.00	ŀ	4.00	
Millard	;	9.00	ł	i	;	;	;	1	1	1 1	
Piute	2.31	1	ļ	;	1	;	1	!	1	-	
Sevier	4.25	4.17	4.67	4.58	5.20	4.62	4.14	!	:	1	
Washington	!	i	1	: 	;	! 1	1	:	1	1	
Wayne	4.72	4.00	4.47	5.11	3.68	4.91	3,89	•	-	-1	
Regional Totals	4,24	4.76	4.49	4.96	3.89	4.42	4.07	3.60	4.10	3,53	
Northeastern Region										;	
Daggett	7.25	3,43	3.83	5.33		00.9	4.93	4.37	4.00	3.80	
Duchesne	47.44	4.75	3,75	7.00	5.20	4.09	2.00	5.00	5.17	5.40	
Uintah	5,50	4.20	6.58	6.12		6,13	4.91	4.44	5.19	4.60	
Regional Totals	5.40	4.15	4.57	5.72		5.54	4.92	4.46	5.04	4.60	
Southeastern Region											
Carbon	ļ	1	5.00	5,33	4.00	5.86	2.50	2,00	4.67	4.14	
Emery	3.50	!	;	8.00	1	3.00	9,33	1.00	:	!	
Grand	!	4.00	8.00	;	!	;	l I	;	!	70	
San Juan	4.75	1.25		1	4.00	5.00	4.20	4.29	5,10		
Regional Totals	4.33	1,80	7,00	9,00	4,00	5.36	4.92	4.00	2.00	4.05	i
STATE TOTALS	4.30	4.28	4.70	5.19	4.48	4.50	4.82	4.28	4.62	4.16	

Table 5. Trend of sage grouse observed per 100 hours, 1967-1972.

Region and County	1967	1968	1969	1970	1971	1972	
Northern Region	1.2.7	07.0	675	378	253	797	
BOX Elder Cache	390	100	90	431	229	183	
Davis	;	1	ļ	;	!	ł	
Morgan	34	!	59	333	176	111	
Rich	27	436	678	987	228	348	
Summit	131	522	236	191	420	349	
Weber	375	1	800	;	155	92	
Regional Totals	283	358	468	387	288	319	
Central Region							
Juab	180	467	200	217	0	181	
Salt Lake	ŀ	;	;	:	;	1	
Sanpete	128	80	135	123	107	106	
Tooele	22	426	407	194	342	786	
Utah	;	;	;	0	1	} ;	
Wasatch	571	735	069	321	377	364	
Regional Totals	318	475	427	208	230	341	
Southern Region							
Beaver	!	;	1186	:	420	486	
Garfield	;	941	949	409	5 09	358	
Iron	;	:	118	346	426	1133	
Kane	i i	1	924	80	1	253	
Millard	1	;	;	;	1	}	
Piute	;	0	:	;	i i	1	
Sevier	i	283	581	!	1	1	
Washington	;	;	1	:	;	ł	
Wayne	;	691	1363	447	2061	555	
Regional Totals	744	601	714	388	911	464	
Northeastern Region							
Daggett	715	388	626	414	835	346	
Duchesne	400	117	122	100	159	118	
Uintah	385	671	487	7/4	735	594	
Regional Totals	777	313	361	319	523	349	
Southeastern Region		(ò	ć L		C	
Carbon	;	£ (76	59 5	,	303	
Emery	I I	22	152	33	0	!	
Grand	!	;	!	0	133	25	71
San Juan	I I	157	2875	653	560	775	
Regional Totals	159	99	179	451	218	432	
STATE TOTALS	296	374	443	346	383	373	

Table 6. Summary of sage grouse hunter success and distribution of harvest and hunting pressure by region and county, 1972.

Region and	Hunters	Days	Birds	Birds per	Birds per	% of	% of
County	Reporting	Hunted	Bagged	Hunter-day	Hunter**	Pressure	Harvest
Northern							
Box Elder	89	164	120	0.73	1.09	16.70	17.00
Cache	52	86	38	0.44	0.97	8.76	5.38
Davis	6	9	6	0.67	0.94	0.92	0.85
Morgan	16	29	25	0.86	1.75	2.95	3.54
Rich	67	99	63	0.64	1.25	10.08	8.92
Summit	51.	72	47	0.65	1.33	7.33	6.66
Weber	27	42	23	0.55	1.21	4,28	3,26
Regional Totals	308	501	322	0.64_	1.12	51.02	45.61
Central							
Juab	2	2	1	0.50	0.00	0.20	0.14
*Salt Lake	3	4	1	0.25	1.03	0.41	0.14
Sanpete	9	15	10	0.67	1.00	1.53	1.42
Tooele	23	34	12	0.35	0.58	3.46	1.70
Utah	23	34	31	0.91	1.37	3.46	4.39
Wasatch	14	17	6	0.35	0.00	1.73	0.85
Regional Totals	74	106	61	0.58	1.08	10.79	8.64
Southern							
Beaver	11	16	15	0.94	1.88	1.63	2.12
Garfield	31	44	48	1.09	2.38	4.48	6.80
Iron	10	18	12	0.67	1.00	1.83	1.70
Kane	1	2	2	1.00	3.33	0.20	0.28
Millard	$\overline{1}$	4	0	0.00	0.00	0.41	0.00
Piute	10	17	7	0.41	0.75	1.73	0.99
Sevier	18	28	14	0.50	0.92	2.85	1.98
*Washington	0	0	0	0.00	0.89	0.00	0.00
Wayne	22	36	31	0.86	1.00	3.67	4.39
Regional Totals	104	165	129	0.78	1.34	16.80	18.27
Northeastern							
Daggett	9	17	19	1.12	3.67	1.73	2.69
Duchesne	25	48	59	1.23	2.08	4.89	8.36
Uintah	39	78	70	0.90	1.68	7.94	9.92
Regional Totals	73	143	148	1.03	1.91	14.56	20.96
Southeastern	•				·		·
Carbon	13	20	22	1.10	1.67	2.04	3.12
Emery	2	20	2	1.00	1.33	0.20	0.28
Grand	1	1	1	1.00	4.00	0.10	0.14
San Juan	2	5	10	2.00	0.00	0.51	1.42
Regional Totals	18	28	35	1.25	2.00	2.85	4.96
Unknown counties	16	39	11	0.28	1.00	3.97	1.56
					1.00	J. 97	T. 70
Mixed counties	0	0	0	0.00			
	 					100	
STATE TOTALS	593	982	706	0.72	1.23	100	100

^{*}Illegal areas

^{**}Based on county of residence

Table 7. Summary of sage grouse bagged per hunter-day by region and county, 1965-72.

•	,	0 0	0.			, ,	•		* *
Region and									
County	1965	1966	1967	1968	1969	1970*	1971	1972	
Northern									
Box Elder	**	**	0.76	0.42	1.44	1.21	1.12	0.73	
Cache	**	**	0.36	0.51	0.65	0.30	0.65	0.44	
Davis	**	**	0.00	0.25	0.92	0.00	0.41	0.67	
Morgan	**	**	1.20	0.50	0.57	0.55	0.48	0.86	
Rich	**	**	0.76	0.79	0.68	0.55	0.84	0.64	
Summit	**	**	0.68	0.51	0.62	0.68	0.68	0.65	
Weber	**	**	0.36	0.96	1.63	0.38	0.49	0.55	
Regional Totals	**	**	0.64	0.59	1.03	0.81	0.83	0.64	•
				-					
<u>Central</u> Juab	**	**	**	**	**	**	**	0.50	
Salt Lake	**	**	**	**	**	**	**	0.25	
Sanpete	**	**	**	0.86	0.81	0.40	0.82	0.67	
Tooele	**	**	**	**	**	0.40	0.83	0.35	
Utah	0.43	1.00	0.18	0.35	0.83	0.32	0.88	0.91	
Wasatch	**	**	**	0.91	0.72	0.44	0.40	0.35	
Regional Totals	0.43	1.00	0.18	0.77	0.79	0.56	0.79	0.58	
	0.43	1.00	0110	0.77	0,75	0,00	0.72	0.50	
<u>Southern</u>									
Beaver	1.11	1.13	**	1.43	1.59	0.83	0.95	0.94	
Garfield	1.63	0.67	**	1.23	1.76	1.11	1.42	1.09	
Iron	0.00	0.20	**	0.77	1.08	1.45	0.53	0.67	
Kane	1.00	2.00	**	0.75	1.00	1.00	0.50	1.00	
Millard	1.00		**	0.00		0.57		0.00	
Piute	1.00	0.89	0.67	0.92	1.24	0.75	1.38	0.41	
Sevier	0.65	0.39	0.17	0.95	0.93	1.04	0.77	0.50	
Washington		4.00	**	0.00	1.00	0.00	**	**	
Wayne _	0,83	1.18	0.80	1.52	1.28	1.44	1.15	0.86	
Regional Totals	1.12	1.31	0.48	1.18	1.39	1.19	1.11	0.78	
Northeastern									
Daggett	0.67	0.50	0.40	1.00	1.57	0.20	1.55	1.12	
Duchesne	1.15	1.20	0.60	1.11	1.05	1.30	1.39	1.23	
Uintah	0.87	1.05	1.25	1.48	1.25	0.97	0.99	0.90	
Regional Totals	0.95	0.80	0.95	1.29	1.24	1.02	1.19	1.03	
Southeastern	<u> </u>						-		<u> </u>
Carbon	0.48	1.50	0.55	0.75	0.26	0 50	0.77	1 10	
Emery	0.00	1.50	0.55 2.00	0.75 0.70	0.36 0.71	0.52 1.50	0.77	1.10	
Grand			2.00		2.00	0.00	0.00	1.00	
San Juan	0.00		2.00				1.33	1.00	
Regional Totals	0.35	1.50	0.74	0.00	1.33	1.08	1.25	2.00	
					0.52	0.73	0.75	1.25	
Unknown counties	0.03	2.00	0.94	0.43		0.76	1.06	0.28	
Mixed counties			0.00			0.00			
Illegal areas	1.00	1.27	0.34	0.46	2.16	0.71	1.00	0.25	
				··.······					
STATE TOTALS	0.83	0.99	0.65	0.82	1.09	0.86	0.93	0.72	

^{*}Northern Region counties (except part of Box Elder) and Tooele and Wasatch counties were limited to a one bird per day bag limit. Southern Region counties had a three bird daily bag limit in 1970. Season length was seven days in all but Wasatch and Tooele counties where it was two days.

^{**}Closed Season.

Table 8. Distribution of sage grouse harvest by region and county, 1965-72.

egion and		1066	1067	1068	1060	1970	1971	1972	
County	<u> 1965</u>	1966	<u> 1967</u>	1968	1969	19/0	<u> </u>	1,712	
lorthern									
Box Elder	*	*	11.29	4.11	13.24	24.19	20.30	17.00	
Cache	*	*	4.03	3.36	3.15	1.68	4.17	5.38	
Davis	*	*	0.00	0.56	1.02	0.00	0.75	0.85	
Morgan	*	*	2.42	0.75	0.74	1.55	1.18	3.54	
Rich	*	*	12.90	7.10	4.35	4.01	6.20	8.92	
Summit	*	*	7.66	3.55	3.06	5.43	4.49	6.66	
Weber	*	*	2.02	4.67	7.87	1.29	2.46	3.26	
Regional Totals		0.00	40.32	24.11	33.43	38.16	39.53	45.61	
regional locals		0.00	10.32		<u> </u>				
Central							_		
Juab	*	*	*	*	*	*	*	0.14	
Salt Lake	*	*	*	*	*	*	*	*	
Sanpete	*	*	*	2.24	1.20	1.03	0.96	1.42	
Tooele	*	*	*	*	*	1.03	3.74	1.70	
Utah	1.50	12.09	0.81	1.68	7.22	1.55	2.99	4.39	
Wasatch	*	*	*	11.59	7.04	8.67	1.07	0.85	
Regional Totals	1.50	12.09	4.04	15.51	15.46	12.94	10.58	8.64	
Southern	r 00	0.00		2 7/	2 50	2 / 6	1 02	2.12	
Beaver	5.00	2.20	*	3.74	2.50	2.46	1.92		
Garfield	32.30	8.79	*	5.05	11.11	5.05	7.59	6.80	
Iron	0.00	0.55	*	1.87	1.20	2.07	0.85	1.70	
Kane	0.50	1.10	*	0.56	0.37	0.26	0.21	0.28	
Millard	0.50		*	0.00		0.52		0.00	
Piute	9.00	8.79	3.23	2.06	2.41	0.39	1.92	0.99	
Sevier	5.50	3.85	2.02	3.55	2.31	3.23	1.82	1.98	
Washington		2.20	*	0.00	0.19	0.00	0.21	*	
Wayne	12.40	10.99	6.45	12.52	8.1 <u>5</u>	13.97	11.22	4.39	
Regional Totals	65.20	38.47	12.50	29.3 <u>5</u>	28.24	27,94	25.75	18.27	
Northcoatorn	•								
Northeastern	1 00	1.10	0.81	1.31	3.06	0.26	1.82	2.69	
Daggett	1.00	9.89	7.26	7.29	3.80	6.73	6.84	8.36	
Duchesne Uintah	7.40				8.89	7.76	7.05	9.92	
	9.90	10.99	22.18	12.15				20.96	
Regional Totals	18.30	21.98	30.24	20.75	15.74	14.75	15.71	20.90	
Southeastern									
Carbon	5.50	4.95	4.44	2.24	1.11	2.07	2.88	3.12	
Emery	0.00		0.81	1.31	0.46	0.78	0.00	0.28	
Grand					0.19	0.00	0.43	0.14	
San Juan	0.00		1.61	0.00	0.37	1.68	1.07	1.42	
Regional Totals		4.95	6.85	3.55	2.13	4.53	4.38	4.96	-
			-	•					
Unknown countie	s 0.50	1.10	6.05	4.30		1.68	4.06	1.56	
			0.00			0.00			
Mixed counties									
Mixed counties Illegal areas	9.00	20.87	4.04	2.42	5.00	0.65	2.03	0.14	
								0.14	
								0.14	

^{*}Closed Season

Table 9. Distribution of sage grouse hunting pressure by region and county, 1965-72.

Region and		· · ·							
County	1965	1966	1967*	1968	1969	1970	1971	<u> 1972</u>	
Northern									
Box elder	**	**	9.66	8.09	9.98	17.20	16.90	16.70	
Cache	**	**	7.31	5.34	5.24	4.77	5.96	8.76	
Davis	**	**	0.52	1.83	1.21	0.11	1.69	0.92	
Morgan	**	**	1.31	1.22	1.41	2.44	2.29	2.95	
Rich	**	**	10.97	7.33	6.96	6.22	6.86	10.08	
Summit	**	**	7.31	5.65	5.34	6.88	6.16	7.33	
Weber	**	**	3.66	3.97	5.24	2.89	4.67	4.28	
Regional Totals	0.00	0.00	40.73	33.44	35.38	40.51	44.53	51.02	
Central									
Juab	**	**	**	**	**	**	**	0.20	
Salt Lake	**	**	**	**	**	**	**	**	
Sanpete	**	**	**	2.14	1.61	2.22	1.09	1.53	
Tooele	**	**	**	**	**	2.77	4.17	3.46	
Utah	2.98	9.92	2.87	3.97	9.48	3.00	3.18	3.46	
Wasatch	**	**	**	10.38	10.58	10.88	2.49	1.73	
Regional Totals	2.98	9.92	2.87	16.49	21.67	19.64	12.52	10.79	
								•	
Southern	4.76	1 52	**	2.14	1.71	2.55	1.89	1.63	
Beaver		1.53	**	3.36	6.85	3.88	4.97	4.48	
Garfield	16.07 0.60	12.21	**	1.98	1.21	1.22	1.49	1.83	
Iron		3.05 0.76	**	0.61	0.40	0.22	0.40	0.20	
Kane	0.60	0.76 	**	0.81	0.40 	0.78		0.20	
Millard	0.60	9.16	3.13	1.83	2.12	0.78	1.29	1.73	
Piute	7.74		7.83	3.05	2.72	2.66	2.19	2.85	
Sevier	7.14	9.16	/.0J	0.31	0.20	0.00	0.30	**	
Washington	 10 71	0.76	5.22	6.72	6.96	8.32	9.05	3.67	
Wayne Regional Totals	10.71	9.16 45.79	16.18	20.31	22.18	20.09	21.57	16.80	
kegional locals	40.22	43./3	10.10	20.31	22.10	20.03	21.37	10.00	
Northeastern									
Daggett	1.19	2.29	1.31	1.07	2.12	1.11	1.09	1.73	
Duchesne	4.76	10.69	7.83	5.34	3.93	4.44	4.57	4.89	
Uintah	9.52	11.45	11.49	6.72	7.76	6.88	6.66	7.94	
Regional Totals	15.47	24.43	20.63	13.13	13.81	12.43	12.33	14.56	
Southeastern									
Carbon	10.71	3.82	5.22	2,44	3.33	3.44	3.48	2.04	
Emery	2.98		0.26	1.53	0.71	0.44	0.89	0.20	
Grand					0.10	0.11	0.30	0.10	
San Juan	0.60		0.52	0.15	0.30	1.33	0.80	0.51	
Regional Totals	14.29	3.82	6.01	4.12	4.44	5.33	5.47	2.85	
Unknown countie	s10.71	0.76	4.18	8.24		1.89	3.58	3.97	
Mixed counties			1.83			0.11			
Illegal areas	8.35	15.26	7.57	4.27	2.52	0.77	1.89	0.41	
		<u> </u>							
STATE TOTALS	100	100	100	100	100	100	100	100	

^{*}Distribution of hunting pressure for 1967 and later based on hunter-days rather than number of hunters reporting.

^{**}Closed Season

Table 10. Statewide summary of sage grouse harvest statistics, 1951-72.

Year	Total* Hunters	Total* Harvest	Hunter Days Afield	Sage grouse per hunter-day	Sage grouse per hunter
1951	840	2,458			2.93
1952	678	2,230			3.29
1953	895	2,581			2.88
1954	802	2,510			3.13
1955	579	1,742			3.01
1956	495	1,375			2.97
1957	470	1,303			2.77
1958	567	1,797			3.17
1959	699	1,875			2.68
1960	861	2,246			2.61
1961	1,078**	1,918**			1.78**
1962***	2,382	5,352	5,097	1.05	1.89
1963	12,366	13,793	15,564	0.89	1.12
1964	4,362	6,827	5,807	1.18	1.56
1965	3,243	3,881	4,673	0.83	1.20
1966	2,612	3,962	4,006	0.99	1.52
1967	5,336	5,089	7,860	0.65	0.95
1968	9,115	11,109	13,601	0.82	1.22
1969	12,894	22,282	20,466	1.09	1.73
1970	12,036	15,877	18,506	0.86	1.32
1971	12,893	20,013	21,509	0.93	1.55
1972	13,040	15,983	22,232	0.72	1.23

TOTALS		· .			
(1963-72)	87,897	118,816	134,224	0.89	1.35
AVERAGES (1963-71)	8,317	11,426	12,444	0.92	1.35

^{*}The number of sage grouse hunters and consequently harvest was limited by permits available from 1951 through 1962.

^{**}Estimated

^{***}Totals and indexes based on indiscreet data.

Table 11. Sage grouse field bag check summary, 1972.

		AI	ומט				COMP	⊃ 1	SIN			
Region and County	Total Parties	Total Hunters	Total Hours	Total Birds	Birds/ 100 hrs.	Total Complete Hunts	Total Hunters	Total Hours	Total Birds	Birds/ 100 hrs.	Birds/ Hunter	
Northern												
Box Elder	327	836	4,080	632	15	288	732	3,646	645	18	0.88	
Cache	65	155	689	50	7	59	134	613	42	7	0.31	
Davis	!	-	;	ł	1	ł	1	!	!		!	
Morgan	9	13	33	7	9	က	7	29	2	7	0.29	
Rich	195	496	2,202	232	11	161	398	1,899	199	10	0.50	
Summit	က	7	36	2	9	n	7	36	2	9	0.29	
Weber	18	50	229	16	7	18	50	229	16	_	0.32	
Regional Totals	614	1,557	7,269	934	13	532	1,328	6,452	906	14	0.68	
Central												
Juap	1	;	}	1	1	1	}	}	}	1	}	
Salt Lake	i	;	;	}	!	!	!	1	;	}	}	
Sannete	1	;	}	ł	;	1	}	ŀ	-	1	ł	
Tooele	24	9/	220	49	22	11	19	98	31	36	0.46	
Utah	;	}	}	1	!	1	ł	;	!	;	1	
Wasatch	1	{	1	}	!	ł	}	-	!		-	
Regional Totals	24	76	220	67	22	11	19	98	31	36	0.46	
1												
Beaver	!	1	!	ļ	:	!	!	}	1		1	
Garfield	42	124	276	99	20	11	23	9	28	47	1.22	
Iron	15	41	134	13	10	5	15	33	-	ന	0.07	
Kane	l	-	!	!	!	;	1	!	-	;	!	
Millard	¦	;	ł	-		!	1	1.		1	i	
Piute	2	10	102	12	12	2	10	102	12	12	1.20	
Sevier	!	}	¦	l i	1	1	1	}	}	1	;	
Washington	1	}	1	1	1	;	ļ	1	ł		!	
Wayne	170	456	2,059	277	13	124	327	1,561	239	15	0.73	1
Regional Totals	229	631	2,571	358	14	142	375	1,756	280	16	0.75	
Northeastern	,	-	,	Ċ		¢	C	Ċ	c		6	
Daggett	T2	45	T44	77	cī	'n	×	7	0	2 t	T.00	
Duchesne	21	71	155	77	28	(п (- 5	2 6	200	2.00	
	44	110	243		26	19	4α	132	2	23	1.40	
Regional Totals	80	226	542	202	37	23	57	153	8	52	1.40	
Southeastern												
Carbon	7	9	18	9	33		9	18	9	33	1.00	
Emery	!	!		}	!	!		!	-	!	¦	
Grand	-	;		!	;	;	1	-	-	¦	1	77
San Juan	-	!	!	-			-	1	-	-		
Regional Totals	1	9	18	9	33	1	9	18	9	33	1.00	
STATE TOTALS	948	2,496	2,496 10,620 1,549	1,549	15	709	1,833	8,465 1,303	1,303	15	0.71	
		•					•		•			

Table 12. Sage grouse hunter success trend determined by field bag checks, 1967-72.

	1967	6.7	161	1968	19	1969	19	1970	19	1971	19	1972	i
Region and County	Birds/ 100 hrs.	Birds/ Hunter	Birds/ 100 hrs.	Birds/ Hunter	Birds/ 100 hrs.	Birds/ Hunter	Birds/ 100 hrs.	Birds/ Hunter	Birds/ 100 hrs.	Birds/ Hunter	Birds/ 100 hrs.	Birds/ Hunter	
Northern										i			
Box Elder	29	0.81	16	0.86	23	1.24	24	1,00	19	0.99	15	0.88	
Cache	9	0.38	18	0.52	11	0.63	35	1.10	7	0.29	7	0.31	
Davis	!	1	;	1	!	!	27	96.0	!	;	!	!	
Morgan	{	1	1	ļ	1	1 1	!	1	10	0.21	9	0.29	
Rich	14	0.52	12	0.46	6	0.62	!	1	14	0.55	11	0.50	
Summit	45	0.93	36	0.91	28	0.75	1	ł	26	1.00	9	0.29	
Weber	25	0.25	10	0.42	15	0.63	10	0.52	6	0.38	7	0.32	}
Regional Totals	12	0.50	14	0.52	15	06.0	24	0.99	16	0.73	13	0.68	ŀ
Central													
Juab	;	;	ļ	ŀ	1		50	;		1	1	!	
Salt Lake	!	!	;	[!	!	16	0.28	!	!	1	1	
Sanpete	!	;	65	1.17	c	0.12	21	0.61	9	0.37	1	1	
Tooele	!	1		ŀ	1	ł	20	2.18	16	0.68	22	0.46	
Utah	ł	1	;	1	;	1	26	0.77	!	¦	!	1	
Wasatch	1	1	41	0.98	28	0.84	!	1	1	}	!	!	
Regional Totals			42	0.98	26	0.79	21	0.61	13	0.61	22	97.0	l
Southern			:		ļ	,			1				
Beaver	!	!	77	2.30	34	1.36	19	0.67	<u> </u>	!	1 :	1	
Garfield	!	!	}	ŀ	39	1.51	20	0.50	21	0.72	20	1.22	
Iron	!	;	37	1.62	27	0.71	19	0.77	34	1.02	10	0.07	
Kane	1	;	1	1	36	1.05	!	}	1	!	!	1	
Millard	1	1	1	}	1	}	12	0.98	1	!	!	;	
Piute	}	-	}	1	1	ļ	32	1.32	23	1.00	12	1.20	
Sevier	[}	1	1	1	}	25	1.36	1	!	!	!	
Washington	-	!	1	1	1		7	0.43	1	1	1	ļ	
Wayne			35	1.31	27	2.02	1		13	0.65	13	0.73	ĺ
Regional Totals	1	1	37	1,35	34	1.49	18	1.07	15	0.67	14	0.75	
Northeastern Daggett	28	0.91	97	1.41	23	1.68	;	;	38	1.14	15	1,00	
Dichesne	78	1 61	37	1 36	38	1 39	7.	00 0	20	0.86	28	00 6	
Uintah	, 4 3	1,54	36	1.42	3 6	$\frac{1.10}{1.10}$	1 6	1.16	707	1.48	26	1.46	
Regional Totals	37	1.40	40		32	1.24	17	1.06	36	1.24	37	1.40	l
Southeastern	ı		(†	t		ı	6	1	,	ć	•	
carbon	C 7	1.50	79	1.5/	ሳ	0.30	Λ <u>;</u>	0T.0	`	1.00	33	7.00	
Emery	13	1.20	30	1.22	38	1.10	24	96.0	!	!	1	1	7
Grand	!	;	!	}	 	}	¦		! !	!	!		8
San Juan	-	-		-	18	0.80	!	1	29	• •	!	!	
Regional Totals	19	1.41	52	1.49	17	0.72	23	0.90	22	1.46	33	1.00	İ
STATE TOTALS	18	0.72	30	0.98	22	1.02	20	0.97	17	0.74	15	0.71	

FOREST GROUSE

SUMMARY

Forest grouse harvest statistics for 1971 indicated an average or higher breeding population level in 1972. Production of ruffed grouse in 1972 was apparently higher than both 1971 and the average while blue grouse was lower than both 1971 and the average. Based on these data a fall population level comparable to 1971 was predicted for 1972.

The harvest of both ruffed and blue grouse was at an all-time high in 1972 due to increased hunters and hunter-days afield. Hunter success was similar to 1971 on a per day basis and slightly higher than 1971 on a per hunter basis.

Forest grouse population densities, as indicated by hunter success, have been above average for the past three years. This has resulted in increased interest and greater hunting pressure.





Brood Counts

Ruffed Grouse

Results of the annual random brood survey for 1972 are shown in Table 1 of this section. Long-term trends of young-adult ratios, mean brood size and ruffed grouse observed per 100 hours are found in Tables 2-4. A summary of effort expended on ruffed and blue grouse brood counts combined is shown in Table 9. Survey results for 1972 compared to 1971 and the average as follows:

		Percent	change from
	1972	1971	Average
Total ruffed grouse observed	223	~5 0	-37
Young per 100 adults	38 5	+2 5	+7
Mean brood size	4.61	-11	-2
Ruffed grouse observed per 100 hours	28	-48	-53
Total hours effort (Forest groust)	7 97	-4	+28

Judging from 1971 harvest statistics the breeding population level in 1972 was probably above average.

Fewer ruffed grouse were counted during brood surveys with slightly less effort than in 1971. Mean brood size was lower than in 1971 but about average while the young per 100 adults ratio was substantially higher than in 1971 and slightly higher than average. The small sample size precludes accurate assessment of production and trend.

Blue Grouse

Results of the annual random brood survey for 1972 are shown in Table 5 of this section. Long-term trends of young-adult ratios, mean brood size and blue grouse observed per 100 hours are found in Tables 6-8. Survey results for 1972 compared to 1971 and the average as follows:

		Percent	change from
	<u>1972</u>	<u>1971</u>	Average
Total blue grouse observed	756	+29	+58
Young per 100 adults	224	-23	-22
Mean brood size	4.64	- 5	-1
Blue grouse observed per 100 hours	95	+34	+30
Total hours effort (Forest grouse)	797	-4	+28

Harvest statistics for 1971 indicate an average breeding population level. Fieldmen exerted slightly less effort on brood surveys than in 1971 but observed more blue grouse. Indicated production, both mean brood size and young per 100 adults, was lower than 1971 and the average.

Field Bag Checks

A summary of field bag check data for 1972 is found in Table 15. Hunter success trends determined via this method since 1966 are shown in Table 16. Results of the 1972 survey compared to 1971 and the average as follows:

		Percent	change from
	<u>1972</u>	1971	Average
Total hunters checked	1,506	+34	+90
Total hours hunted	6,624	+67	+131
Forest grouse per hunter (complete hunts)	0.95	+19	+28
Forest grouse bagged per 100 hours	20	-9	- 5
Average hours per hunter-day			
(complete hunts)	4.7	+27	+24
Hours hunted per grouse bagged	5.0	+9	-2

Results of this survey indicate an increase in hunter success over 1971 on a per day basis. The average hunter spent more hours afield per day compared to both 1971 and the average. The time required to bag a grouse was slightly more than in 1971 but about average.

Harvest

Hunter Questionnaire

Results of the 1972 forest grouse (ruffed and blue grouse combined) hunter questionnaire are shown in Table 10. Long-term trends of forest grouse bagged per hunter-day, percent of harvest and percent of pressure (hunter-days) by county are found in Tables 11-13 and total State-wide harvest statistics in Table 14. Harvest statistics for 1972 compared to 1971 and the average as follows:

		Percent	change from
	<u>1972</u>	1971	Average
Forest grouse hunters	16,640	+25	+49
Forest grouse harvested	42,518	+33	+110
Hunter-days afield	38,940	+34	+106
Forest grouse per hunter	2.56	+7	+28
Forest grouse per hunter-day	1.09	-1	+3
Percent ruffed grouse	48.6	-2	+1
Percent blue grouse	45.2	+5	+2
Percent unidentified species	6.2	-17	-22

During 1972, hunting pressure was at an all-time high and resulted in a record harvest of 42,518 forest grouse. Hunter success per day was similar to 1971 and slightly above average while success per hunter for the season was slightly above 1971 but considerably higher than the average.

The long-term trend of forest grouse harvest statistics continues upward largely due to increasing interest in forest grouse hunting (Figure 1).

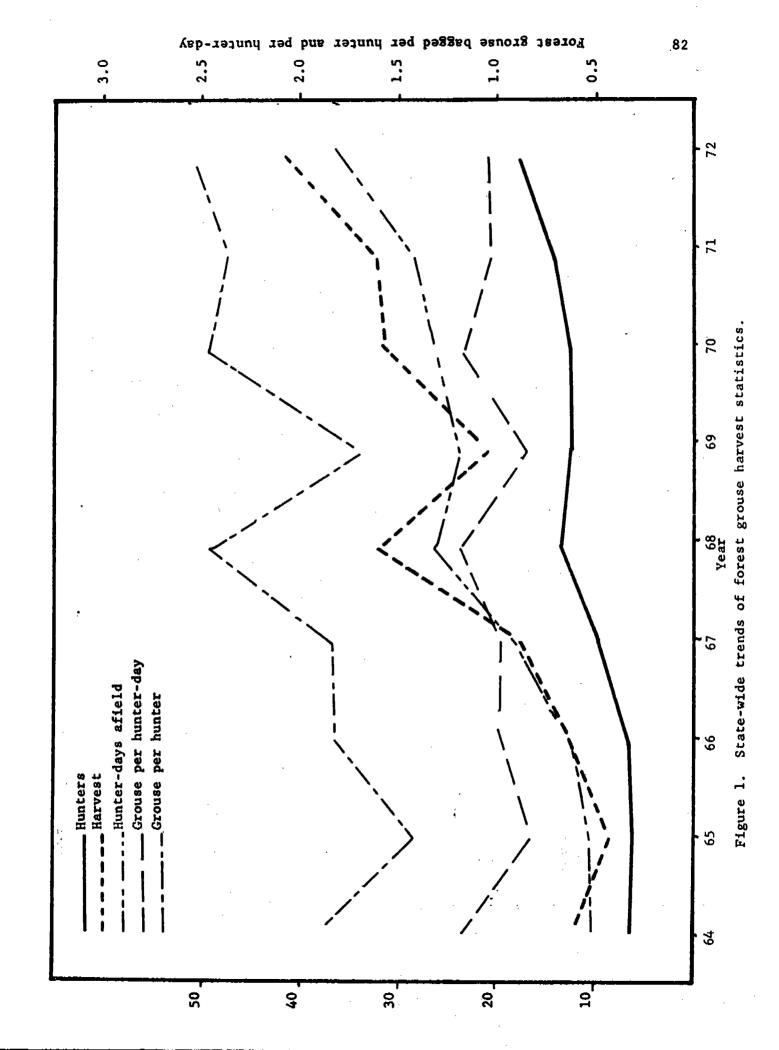


Table 1. Ruffed grouse summer inventory summary, 1972.

	a ic	Distinct Ry	Rroods	Mean	Mixed Vng.	g. & Ad.	Adults	Total	Total	Young/	Grouse/
County	So.		Yng.	Brood	Adults		w/o Yng.	Adults	Young	100 Ad.	100 hrs.
7											
Nor chern	;	;	;	1	;	;	;	;	!	;	;
DOA BIGGI	-	-	o	00.6	0	0	0	-	6	006	14
Cacine	4 1/	4 1/	7 7	08.7	. m		0	œ	31	388	244
Morto	` ;) !	. 1		' ¦	-	1	;	;	!	1
no gan	7	7	د در	3 75	C	0	0	4	15	375	61
Sumit	۰ ۱	,) <u>-</u>	6.50	0	0	0	7	13	650	100
Uchor	+ ¦	j 1	})) ;)	' '	:	:	!	;	-	
REGIONAL TOTALS	12	12	61	5.08	3	7	0	15	89	453	39
1											
Tuab	0	0	0	;	0	0	0	0	0	1	•
Salt Lake	0	0	Ó	1	0	0	0	0	0	!	1
Sannete	9	•	78	4.67	9	18	2	14	94	329	240
Tooele	0	0	0	1	0	0	0	0	0	1	!
IItah	7	- 7	19	4.75	0	0	0	4	19	475	37
Wasatch	·	· 🗝	<u> </u>	3.00	0	0	0	1	Э	300	50
REGIONAL TOTALS	I		20	4.55	9	18	2	19	68	358	84
1		} 	,								!
Beaver	;	1	;	!	:		:	;	;	; ;	1
Garfield	;	;	;	!	1	;	;	;	:	:	:
Iron	;	;	ì	ł	!	1	:	;	 -	:	;
Kane	;	;	ł	;	;	;	;	;	!	1	1
Millard	;	;	į	;	;	;	1	;	!	;	:
Piute	;	;	;	i	!	;	;	!	1	!	;
Sevier	7	7	30	4.29	0	0	2	6	30	333	22
Washington	. !	1	. 1	;	1	;	;	;	:	;	1
Wayne	:	;	;	1	1	;	:			-	:
REGIONAL TOTALS	7	7	30	4.29	0	0	2	6	30	333	15
Northeastern											
Daggett	;	;	;	ţ	1	1	;	1	1	; ;	1 6
Duchesne	ന	m	Ξ	3.67	0	0	0	က		367	28
Uintah	:	1	;	!	i 1	1		:	1 1	1	
REGIONAL TOTALS	3	3	11	3.67	0	0	0	0	11	367	10
Southeastern											
Carbon	0	0	0	;	0	0	0	0	0	1	;
Emery	;	;	;	!	;	:	:	!	;	:	!
Grand	0	0	0	!	0	0	0	0	0	!	83 ¦
San Juan	!	;	1	1			-	:	:	:	1
REGIONAL TOTALS	0	0	0		0	0	0	0	0		-
STATE TOTALS	33	33	152	4.61	90	25	7	97	177	385	28

Trend of ruffed grouse young per 100 adults ratios, 1963-72. Table 2.

				!																																8	84		
1972		006	388	:	375	650	1	453		:	1 1	329		475	300	358		1	1 1	!	!	:	;	333	1		333		!	367	1	367	!		•	t I	1		000
1971	;	383	:	240	1	514	340	426		325	100	240	;	300	1	242		200	!	:	ł	280	300	221	:	•	235		!	:	375	375		:	200	;	:	500	
1970	. :	468	:	400	;	200	:	471		470	470	300	;	256	l 1	331		;	į	ì	1	183	;	533	:	:	300		1	225	250	233	c	Þ	700	:	1	489	
1969	+	321	0	200	1	333	143	260		333	133	171	į	267	:	214		97	!	;	1	225	:	400	1	200	139		!	800	200	992		!	400	;	ŀ	004	
1968	Q	225	400	;	150	200	450	292		275	150	259	:	433	:	236		;	;	!	;	:	i	425	ł	:	425		1	450	0	386		40	350	;	ľ	128	
1967	400	425	009	:	300	ł	:	427		550	0	228	;	450	450	333		;	;	;	0	i	!	243	ł	:	189		;	1	-	1	-	:	t I	;	1		
1966	;	630	525	200	;	;	257	522		;	1	;	ŀ	:		375		;	;	;	;	200	;	362	;	1	378		1	;	:	1		!	;	;	;		
1965	1	314	;	;	!	0	009	280		;	:	;	ŧ	;	:	311		1	ļ	1	!	;	;	225	i	:	225		!	!	:	:	; 	:	300	£	257	267	
1964	;	:	;	240	;	:	!	240		;	;	!	:	ł	:	171		:	1	ľ	¦	1	;	200	1	1	200		!	;	t	:		!	200		ł	200	
1963		362	300	:	300	!	ł	331		ł	;	:	:	!	ŀ	226		!	;	ľ	!	:	!	260	1	;	260		;	457	1	457		1	300	i	:	300	
Region and County	Northern Region	Cache	Davis	Morgan	Rich	Summit	Weber	Regional Totals	Central Region	Juah	Salt Lake	Sanpete	Tooele	Utah	Wasatch	Regional Totals	Southern Region	Beaver	Garfield	Iron	Kane	Millard	Pfute	Sevier	Washington	Wayne	Regional Totals	Northeastern Region	Daggett	Duchesne	Uintah	Regional Totals	Southeastern Region	Carbon	Emery	Grand	San Juan	Regional Totals	

Table 3. Trend of ruffed grouse mean brood size, 1962-72.

Region and	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Northern Region			;	; ;	9	00 7	;	;	:	ŀ	:
Box Elder Cache	7.33	3.62	; ;	4.40	6.59	6.38	2.00	4.09	4.78	5.55	00.6
Davis	:	3.00	;	:	5.25	9.00	4.00		1 6	1 1	7.80
Morgan	:	;	4.00	:	4.00	;	1 :	4.67	4.00	6.75	
Rich	2.00	3.00	;	1	t T	3.00	3.00	1 8	; 6	1 6	3.75
Summit	ŧ	:	1	:	1 :	:	5.00	9.00	2.00	9.00	6.50
Weber	5,33	:	:	6.00	4.50	:	4.50	2.50		3 8 8	6 6
Regional Totals	6.00	3.31	4.00	4.66	6.01	5.82	4.00	4.30	4.79	6.09	5.08
Central Region								,	,		
	!	;	;	;	;	09.9	5.33	4.00	79.4	4.33	1
Salt Lake	;	;	!	;	!	;	;	4.00	4.67	4.00	
Sannete	;	;	;	!	;	3.89	3.54	4.67	4.64	5.50	4.6/
Top 10	;	;	;	:	:	;	;	•	1	;	:
Itah	;	;	;	;	;	4.60	4.33	3.80	7.00	3.75	4.75
Lineatoh	;	;	;	8	;	4.50	;	;	:	1	3.00
Regional Totals	:	4.00	4.08	5.09	5.00	4.76	4.00	4.17	4.78	4.75	4.55
		 		! 		!	;	00	! !	5.00	
Beaver	:	!	! !	:	}	1	}		i	} ;	
Garfield	:	!	1	!	:	:	1	1		1	1
Iron	;	!	!	;	!	:	;	;	;	:	:
Kane	1	!	!	!	:	;	1	1 1	! !	!!	•
Millard	;	:	1	;	2.00	;	;	2.25	;	4.67	!
Piute	;	:	1	;	ł	1	;	:	!	3.00	1
Sevier	1	2.60	2.00	3.00	4.14	4.25	4.25	4.00	!	3.83	4.29
Washington	:	;	;	;	:	;	:		;	1	-
Wavne	;	;	;	:	:			2.00	1	•	
Regional Totals	:	5.60	2.00	3.00	4.25	4.25	4.25	3.30	1	4.08	4.29
Northeastern Region											
Daggett	;	;	ł	1	;	:		;	: :	:	•
Duchesne	4.00	5.33	;	;	1	:	4.50	8.00	3.00	1 6	3.67
Uintah	;	:		;	1		ı	ر 00	2.50	2.00	
Regional Totals	4.00	5.33	1	:	;		4.50	7.67	2.80	2.00	3.67
Southeastern Region							•				
Carbon	!	1	1	;	!	1	2.00	;	ł		:
Emery	5.50	3.00	6.67	9.00	;	0	3.50	3.00	7.00	2.00	:
Grand	1	;	;	!	;	;	!	;	1	;	8.5
San Inan	;	;	ł	4.50	;	:		:	į	:	
Regional Totals	5.50	3.00	6.67	4.80	:	;	3.00	3.00	7.00	5.00	•
STATE TOTALS	5.58	4.10	4.24	4.32	5.56	5.33	4.05	4.24	4.66	5.16	4.61

1
1967-72.
hours,
100
→ per
use observed per 100 hours,
grouse
nf fed
• of
Trend of r
14
Table

Region and County	1967	1968	1969	1970	1971	1972	
Northern							
Box Elder	;	7	;	i	!	;	
Cache	;	24	83	270	29	14	
Davis	;	31	ຕ	;	;	244	
Morgan	;	:	28	62	128	:	
Rich	;	62	;	:	;	61	
Summit	;	40	63	42	108	100	
Weber	i	92	77	•	73	:	
REGIONAL TOTALS	37	33	20	80	77	39	
Central							
Juab	206	200	158	179	142	;	
Salt Lake	;	111	70	47	16	;	
Sanpete	87	316	158	143	167	240	
Tooele	1	;	;	;	;	!	
Utah	21	61	63	32	40	37	
	100	-	:	;	٥	50	
REGIONAL TOTALS	58	395	78	81	85	87	
Southern							
Beaver	;	;	314	!	250	i	
Garfield	1	:	ŀ	;	;	;	
Iron	:	;	!	;	!	ţ	
Kane	1	;	!	!	;	:	
Millard	!	;	;	213	317	:	
Piute	ŧ	;	!	;	267	;	
Sevier	;	:	;	;	78	22	
Washington	;	;		;	;	:	
Wayne	1	:	1		:	-	
REGIONAL TOTALS	78	:	314	62	35	15	
Northeastern							
Daggett	t	i	;	;	0	:	
Duchesne	1	157	28	29	0	28	
Uintah	1	20	88	18	83	:	
REGIONAL TOTALS	:	119	65	23	83	10	
Southeastern				U	<		
carbon	!	T &	: 6	٠,	>	; i	
Emery	1	9	2	97	40		
Grand	!	;	!	;	:	;	
San Juan	:	: :	: ?	: <u>:</u>	- 77	:	
KEGLUNAL IOIALS	:	7	3	77	4		
STATE TOTALS	48	70	59	55	54	28	86

Table 5. Blue grouse summer inventory summary, 1972.

					Missel Vac	PV 3	Adulte	Total	Total	Young/	Grouse/
Region and	Dist	Distinct Br	Broods	Mean	Adrilta	Volino	w/o Yng.	Adults	Young	100 Ad.	100 hrs.
County	S	Adult	ıng.	DIOOG	Partie		0.1.				
Northern								•	1	Č	200
Box Elder	1	-	'n	2.00	0	0	0	-	n ¦	200	,
1 0 C	12	12	99	5.50	2	9	11	25	72	288	133
00000	1 6	۳,	, «	2,67	2	1	9	11	6	82	125
Davis	י ר	י ר	יי פ	יי מי מי	ורי	o	7	10	25	250	125
Morgan	~ •	n (9	7 4	n c	· c		~	6	300	39
Rich	7	7	, ע	4.50	> 0	> 0	4 6) r	, 4	533	127
Summit	ന	ന	16	5,33	5	Ď,)	n :	0 0		17.7
Weber	7	7	19	4.75	0	0	24	28	67	8	7.4.1
REGIONAL TOTALS	28	28	139	4.96	7	16	46	81	155	191	111
Central											
Tuah	C	c	c	;	0	0	0	0	0	:	1
1000	· c	· c	_	;	c	0	0	0	0	;	1
Salt Lake	י כ	יו כ	2	2 80	· c		7	6	14	156	92
oanpere maratra	۰ د	٦ د	י כ	0		· c	C	0	0	;	!
Tooele	> 0	> 0) o	7. 23	, ,	7		12	45	375	92
Utan	, ע	<i>n</i> c	ရှိ ရ	77.4	4 C	· C	ı c	m	18	009	262
C (3	9,0	,	<u>-</u>	, L	7/2	77	321	98
REGIONAL TOTALS	-	\geq	2	4.12	7	,		13			
Southern										!	ļ
Beaver	t 1	;	;	!	1	:	;	;	;		•
Garfield	-	1	4	4.00	0	0	2	m	7	133	01
Tron	!	;	!	;	;	;		;	;	1	!
Kane	٠-	~	10	3,33	0	7	2	Ŋ	12	240	!
Millord Millord	· -	,	6	2.00	0	0	2	ന	2	29	83
niriai u	-	4	1		•	· ¦	· :	!	;	1	:
Piute	; '	¦	1 7	;	4		13	16	7	100	23
Sevier	20	×	77	7.02	.	י כ	<u>.</u>	4 1	17 6	222	260
Washington	m	с ,	12	4.00	7	~ (7 0	~ c	£ C	1/7	2 1
Wayne	0	0	0	-	٥	٥	اد	5			2.6
REGIONAL TOTALS	16	16	49	3.06	2	6	21	39	28	149	3/
Northeastern								,	•	Š	\ ·
Daggett	∞	œ	40	5.00	0	0	9	14	40	286	140
Duchesne	_	7	33	4.71	0	0	'n	12	33	5/2	S ;
IIintah	-4	- 4	26	6.50	ო	13	0	7	39	557	87
REGIONAL TOTALS	19	19	66	5.21	3	13	11	33	112	339	104
00:17											
Corbon	-	-	v	9.00	•	17	16	25	23	92	258
7	• •	1 1) <u> </u>		. !	;	;	;	;	;	!
Eurer y	, (, .	0	7.67	c	c	4	7	0 0	114	103
Grand	ກ (າ (o i	7.07	> ~) ¥	r oa	· //c	Ö	375	238
San Juan	12	77	14	• •	4	018	0 0	77	25	216	216
REGIONAL TOTALS	16	16	88	5.50	1.2	33	97	20	177	077	1
STATE TOTALS	96	96	445	4.64	26	78	111	233	523	224	7 56

Table 6. Trend of blue grouse young per 100 adults ratios, 1963-72.

Region and County	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	
Northern Region											
	254	700	200	;	133	382	222	389	1 6	500	
Cache	333	;	200	487	350	318	154	316	242	288	
Davis	250	;	:	442	400	138	250	: 6	070	70	
Morgan	1	425	1	400	1 8	† •	200	200	222	200	
Rich	ţ	:	200	:	333	1	: 3	300	: 5	500	
Summit	1	:	200	1 1	450	; ;	904	433	000	555	
Weber	528	:	9	567	200	200	325	֡֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓		00	
Regional Totals	317	517	265	478	193	289	248	361	305	191	
Central Region											
Juab	;	:	;	;	300	;	383	;	; ;	!	
Salt Lake	;	;	;	ŀ	0	;	175	900	67	1	
Sanbete	;	1	;	:	267	467	!	283	425	156	
Toople	;	;	;	;	800	400	;	ŀ	;	;	
Utah	;	;	;		275	267	230	314	422	375	
Wasatch	:	ł	1	1	333	360		550	420	009	
Regional Totals	347	344	567	612	326	337	231	389	324	321	
Southern Region											
Beaver	1	;	1	:	1	238	!	! 6	1 6		
Garfield	!	1	ţ	:	;	140	;	100	900	133	
Tron	!	!	;	700	;	400	∞	:	267	1 0	
Zane	i	1	ţ	;	233	;	;	150	200	240	
Millard	;	;	;	;	;	ŀ	;	;	280	/9	
Piute	;	;	;	!	;	200	;	;	ţ	3 (
Sevier	92	200	40	69	29	1	ł	140	136	100	
Washington	: 1	:	;	0	366	:	38	170	;	2/1	
Wayne	;	300	;	900	-	:	182	;	;		
Regional Totals	92	240	40	150	160	224	75	135	213	149	
Northeastern Region	Į.						1			<i>3</i> 0 0	
Daggett	ŀ	;	1	1	!	150	350	;	! !	907	
Duchesne	:	909	317	1	200	257	433	1 5	400	C/7	
Uintah	-	1	200	:	999	:	9	400	2	23/	
Regional Totals	•	009	343	:	555	186	414	400	225	339	
Southeastern Region								ı	1		
Carbon	:	;	;	;	1	138	;	0	167	92	
Emery	300	;	575	!	300	250	0	450	300	1 .	
Grand	;	:	i	;	;	1	:	;	1	711	88
San Juan	;	:	0		200	400	456	153	386	375	в
Regional Totals	300	;	383	•	250	288	456	139	310	216	
STATE TOTALS	258	381	312	354	246	268	235	253	292	224	

Table 7. Trend of blue grouse mean brood size, 1962- 72.

Region and County	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Northern Region Rox Elder	90.9	5.09	7,00	9.00	;	3.67	4.43	5.54	3,83	ŧ	5.00
Cache	: :	4.28	} ;	2.50	6.22	4.67	4.38	3,35	4.28	5.18	5.50
Davis	;	3.33	;	1	4.42	4.00	4.50	7.00	:	6.25	2.67
Morgan	;	;	4.25	;	9.00	;	;	2.00	9.00	5.33	5,33
Rich	;	;	;	5.00	;	3,33	;	;	3.00	;	4.50
Summit	5.00	;	1	4.00	;	4.50	;	8.00	4.33	9.00	5,33
Weber	3.00	5.28	;	6.00	5.67	4.00	5.00	4.75		6.50	4,75
Regional Totals	5.64	4.75	5.17	4.09	5.73	4,10	4.50	4.51	4.21	5.54	4.96
Central Region											
Juah	;	;	;	:	;	3.00	i	7.60	;	:	;
Salt Lake	;	;	;	:	;	;	;	4.40	9.00	2.00	:
Sanpete	;	;	:	;	;	4.00	4.67	;	2.83	4.25	2.80
Tooele	;	ł	;	;	;	8.00	4.00	;	;	;	ů ě
Utah	;	;	;	;	:	5.00	3.40	4.67	5.50	4.22	4.22
Wasatch	;	:	;	1	;	10.00	3.60	:	5.50	4.50	6.00
Regional Totals	1	3.88	4.43	5.67	6.13	4.78	3.80	4.54	4.67	4.00	4.12
Southern Region											
Beaver	;	;	;	:	;	;	3.75	;	;	;	•
Garfield	;	ł	;	;	;	;	2.00	;	3.00	9.00	4.00
Iron	;	;	;	;	7.00	;	4.00	;	;	8.00	
Kane	:	ł	;	;	;	;	;	;	3.00	9.00	3.33
Millard	;	;	;	;	;	;	;	;	;	4.67	2.00
Piute	;	;	;	;	;	;	2.00	i	;	;	:
Sevier	1	3.20	3.00	2.00	2.57	2.00	:	1.50	1	3,00	2.62
Washington	:	:	;	1	;	9.00	;	4.00	3.40	:	4.00
	7.00	:	3.00		9.00	;					
Regional Totals		3.20	3.00	2.00	4.36	3.00	3.22	5.50	3.25	4.45	3.06
Northeastern Region											
Daggett	;	;	1	:	ļ	;	:	3,50	;	:	5.00
Duchesne	2.00	;	9.00	4.75	:	2,00	9.00	4.33	;	4.00	4.71
		:	:	2.00	:	6.67	:	9.00	5.50	2.50	6.50
Regional Totals	5.00	:	6,00	4.80	;	5.50	9.00	4.46	5.50	3.00	5.21
Southeastern Region							•			1	
Carbon	;	;	;	;	;	:	4.00	:	:	2.00	0.0
Emery	7.00	3.00	;	5.75	;	9.00	2.00	:	4.50	3.00	
Grand	;	;	;	;	;	:	!	:	;	1 4	7.6/
San Juan		:	;	;		4.00	4.33	•1		5.25	6.17
Regional Totals	7.00	3.00		5.75		2.00	4.33	5,20	4.20	4.82	5.50
STATE TOTALS	5.64	4.36	4.44	4.74	5.49	4.42	4.24	97.4	4.28	4.86	7.64

1967-72.
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Trend
Table 8.

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Region and	1967	1968	1969	1970	1971	1972	
(2000)							
Northern	,	1 20	713	00	;	2.5	
box Elder	:	100	17.6	108	171	13.7	
Cacne	•	761	7 1	2	701	125	
Davis	!	174	27	1 6	174	100	
Morgan	!	;	ž	χ. Σ	2	C71	
Rich	!	;	!	33	ļ	39	
Summit	;	;	32	99	18	127	
Weber	;	150	364		153	147	
RECIONAL TOTALS	63	103	127	97	135	111	
Central							
Juab	138	;	175	;	0	;	
Salt Lake	2	;	99	28	20	;	
Sanpete	89	89	;	43	34	92	
Tooele	675	200	!	:	;	;	
Utah	32	106	38	63	46	92	
Wasatch	100	87	;	260	1,100	262	
REGIONAL TOTALS	9 9	46	52	57	21	88	
Southern							
Beaver	;	88	;	;	;	;	
Garfield	;	240	•	98	45	10	
Tron	;	143	140	15	42	;	
Kane	;	;	;	111	51	;	
Millard	;	;	;	ł	317	83	
Piute	;	54	¦	1	1	!	
Sevier	;	1	38	;	16	23	
Mashinoton	;	;	86	174	!	260	
Wayne	;	;	;	!	;	i.	
REGIONAL TOTALS	116	102	56	162	29	37	
Northeastern							
Daggett	1	1,400	193	;	0	146	
Duchesne	10	119	33	;	13	06	
Uintah	255	!	156	41	35	87	
REGIONAL TOTALS	51	210	150	41	18	104	
Southeastern					,		
Carbon	!	543	6	32	80	258	
Emery	53	12	;	12	31	!	91
Grand	;	!	;	ļ	13	103	O
San Juan	75	158	196	211	178	238	
REGIONAL TOTALS	33	29	98	40	97	216	
STATE TOTALS	<i>L</i> 9	101	84	71	71	95	

Table 9. Summary of effort expended on forest grouse brood counts, 1972.

Region and	Vehicle Miles		urs Effort Expe		
County	Traveled	Vehicle	Horseback	Walking	Total
Northern					
Box Elder	6 0	3	13	1	17
Cache	540	37	28	8	73
Davis	260	12	0	4	16
Morgan	0	0	28	0	28
Rich	283	12	0	19	31
Summit	186	13	0	2	15
Weber	41	4	5	23	32
REGIONAL TOTALS	1,370	81	74	57	212
Central					
Juab	0	0	0	0	0
Salt Lake	31	3	0	1	4
Sanpete	247	17	0	8	25
Tooele	36	3		1	4
Utah	418	36	24	2	62
Wasatch	72	8	0	0	8
REGIONAL TOTALS	804	67	24	12	103
Southern					
Beaver					
Garfield	127	14	57	0	71
Iron		-· 			
Kane					
Millard	110	5		1	6
Piute	==			- -	
Sevier	0	0	180	0	180
Washington	30	3	2	5	10
Wayne	54	1	0	2	3
REGIONAL TOTALS	214	13	239	8	260
Northeastern					
Daggett	320	25	3	9	37
Duchesne	629	44	0	6	50
Uintah	397	23	20	10	53
REGIONAL TOTALS	1,346	92	23	25	140
Southeastern					
Carbon	166	13	0	6	19
Emery					
Grand	90	10	0	5	15
San Juan	95	10	35	3	48
REGIONAL TOTALS	351	33	35	14	82
STATE TOTALS	4,085	286	395	116	797

Table 10. Summary of forest grouse hunter success and distribution of harvest and hunting pressure by region and county, 1972.

Region and	Hunters	Days			Bagged		Birds/	•	% of	% of
County	reporting	hunted	Ruffed	Blue	Uniden.	Total	Day	Hunter*	Pressure	Harvest
Northern										
Box Elder	33	71	50	36	8	94	1.32	3.09	4.13	5.01
Cache	173	399	218	225	12	455	1.14	2.81	23.20	24.23
Davis	25	46	11	28	0	39	0.85	2.71	2.67	2.08
Morgan	25	51	50	34	4	88	1.73	0.50	2.97	4.69
Rich	28	52	34	2 5	1	60	1.15	3.33	3.02	3.19
Summit	48	105	53	23	5	81	0.77	2.83	6.10	4.31
Weber	88	226	111	175	35	321	1.42	3.34	13,14	17.09
REGIONAL TOTALS	420	950	527	546	65	1,138	1.20	3.03	55.23	60.60
<u>Central</u>									<u> </u>	
Juab	15	34	-8	9	0	17	0.50	2.00	1.98	0.91
Salt Lake	25	50	34	29	0	63	1.26	1.96	2.91	3.35
Sanpete	33	55	23	41	13	77	1.40	2.07	3,20	4.10
Tooele	7	10	2	3	2	7	0.70	1.17	0.58	0.37
Utah	85	201	137	87	4	228	1.13	2.58	11.69	12.14
Wasatch	34	66	30	29	7	66	1.00	2.67	3.84	3,51
REGIONAL TOTALS	199	416	234	198	26	458	1.10	2.21	24.19	24.39
Southern					· ·	•				
Beaver	5	9	7	0	2	9	1.00	2.50	0.52	0.48
Garfield	6	10	3	3	0	6	0.60	0.67	0.58	0.32
Iron	14	34	4	10	10	24	0.71	2.50	1.98	1.28
Kane	7	16	0	11	0	11	0.69	1.00	0.93	0.59
Millard	13	22	8	6	1	15	0.68	1.62	1.28	0.80
Piute	5	10	2	0	0	2	0.20	1.33	0.58	0.11
Sevier	28	55	3 5	9	4	48	0.87	1.59	3.20	2.56
Washington	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Wayne	2	2	0	3	00	3	1.50	0.00	0.12	0.16
REGIONAL TOTALS	80	158	59	42	17	118	0.75	1.76	9.19	6.28
Northeastern										
Daggett	7	16	3	19	0	22	1.37	0.00	0.93	1.17
Duchesne	1 5	30	32	5	0	37	1.23	1.80	1.74	1.97
<u> Uintah</u>	1 5	30	_ 5	5	2	12	0.40	0.50	1.74	0.64
REGIONAL TOTALS	37	_76	40	29	2	71	0.93	0.88	4.42	3.78
Southeastern	_									
Carbon	15	34	24	10	1	35	1.03	3.08	1.98	1.86
Emery	4	10	9	1	Ö	10	1.00	2.00	0.58	0.53
Grand	2	3	1	1	Ō	2	0.67	1.50	0.17	0.11
San Juan	3	3	_ 3	3	0	6	2.00	0.00	0.17	0.32
REGIONAL TOTALS	24	50	37	1 5	1	53	1.06	2.61	2.91	2.82
Jnknown countie	s 34	70	15	19	6	40	0.57	0.00	4.07	2.13
Mixed counties	0	0	0	0	o	0	0.00	0.00	0.00	0.00
STATE TOTALS	794	.,720	912	849	117	1,878	1.09	2.56	100	 LOO

^{*}Based on county of residence.

Table 11. Summary of forest grouse bagged per hunter-day by region and county, 1965-72.

				Q I				,
Region and	·		··	***************************************		<u> </u>	_	
County	1965	1966	1967	1968	1969	1970	1971	1972
Northern		•		,				
	0.67	1.08	0.83	0.72	0.88	1.17	1.07	1.32
	0.98	1.12	1.24	1.17	1.11	1.33	1.36	1.14
	0.71	0.38	0.57	0.40	0.52	0.82	0.47	0.85
	1.33	1.77	0.57	1.59	0.50	1.55	1.40	1.73
	0.93		1.09	0.92	0.97	1.42	1.35	1.15
	0.87	1.04	0.58	1.32	0.60	1.10	0.89	0.77
	0.32	1.04	0.62	1.52	0.75	1.22	1.11	1.42
	0.80	1.08	0.94	1.19	0.87	1.28	1.17	1.20
Central		_						
	1.14	1.67	0.73	1.36	1.00	1.38	1.21	0.50
	0.55	0.69	0.74	1.21	0.96	0.80	1.26	1.26
	1.06	0.87	1.15	1.53	0.77	1.56	0.92	1.40
-	0.95	0.25	0.15	1.00	0.68	0.55	0.57	0.70
	1.00	1.03	0.87	1.21	0.76	1.13	1.02	1.13
	1.09	1.07	1.21	1.37	0.68	1.29	1.36	1.00
	0.88	0.93	0.87	1.31	0.77	1.24	1.08	1.10
		0.73	0.07		<u> </u>		1.00	
Southern								
	0.00	0.00	2.00	0.67	0.50	1.00	0.80	1.00
	1.00	1.00	0.33	2.00	0.25	0.00	0.00	0.60
	0.00	0.33	0.60	1.03	1.15	1.19	1.00	0.71
Kane				0.25	0.80	0.00	0.63	0.69
	0.00	0.00	1.60	0.00	4.00	1.83	1.50	0.68
	3.00	1.00		1.00	1.00	0.43	1.33	0.20
	0.25	1.63	1.06	1.21	1.00	1.11	0.95	0.87
Washington			1.00	1.10	0.00	0.00	1.00	
	0.00		4.00	0.33	2.00	0.00	0.00	1.50
REGIONAL TOTALS	0.35	1.00	1.09	1.06	$0.9\overline{9}$	1.07	0.92	0.75
Northeastern								
Daggett		0.00	1.69	1.20	2.22	0.14	0.50	1.37
	1.60	1.36	0.78	1.33	1.08	0.84	1.64	1.23
	1.00	1.00	0.56	1.04	1.26	0.88	0.52	0.40
REGIONAL TOTALS	1.27	1.14	0.98	1.19	1.37	0.73	0.96	0.93
Southeastern								
	0.50	1.00	1.00	0.88	1.04	1.18	0.65	1.03
	0.00	0.33	2.43	2.00	0.89	1.12	0.45	1.00
•	3.00			1.17	0.00	0.50	1.00	0.67
	0.00	 -	1.00		0.43	0.00		2.00
	0.60	0.87	1.43	1.12	0.85	1.12	0.61	1.06
	0.83	0.35	0.82	1.30		0.68	1.11	- 170
				1.30				0.57
Mixed counties	1.00		1.51			0.00	2.00	
STATE TOTALS (0.83	0.99	0.99	1.22	0.87	1.20	1.10	1.09

Table 12. Distribution of forest grouse harvest by region and county, 1965-72.

				·	 				. <u></u>
Region and									
County	1965	1966	1967	<u> 1968</u>	1969	1970	1971	1972	
Northern									
Box Elder	3.12	4.95	2.81	1.67	3.45	3.03	2.88	5.01	
Cache	25.17	25.44	25.29	20.44	28.21	28.27	27.41	24.23	
Davis	4.90	0.88	1.41	0.77	1.44	1.48	1.94	2.08	•
Morgan	1.78	4.06	0.47	4.16	1.73	2.90	3.28	4.69	
Rich	3.12		2.93	2.18	3.65	3.03	4.62	3.19	
Summit	2.90	4.95	4.92	8.20	4.61	2.96	3.62	4.31	
Weber	3.34	9.72	3.40	8.20	11.80	10.24	10.52	17.09	
REGIONAL TOTALS	44.33	50.00	41.22	45.61	54.89	51.90	54.29	60.60	
	44.33	20.00	41,22	47.01	24.03	31.70	J4.2J	00.00	
Central	1 70	1 77	0.04	1 00	1 //	2 / 0	0 00	0.01	
Juab	1.78	1.77	0.94	1.92	1.44	3.48	2.28	0.91	
Salt Lake	8.02	4.24	3.04	4.04	2.50	1.29	3.89	3.35	
Sanpete	3.79	7.24	7.03	8.52	3.17	8.82	3.69	4.10	
Tooele	4.45	0.35	0.59	0.64	1.25	0.39	0.80	0.37	
Utah	17.59	20.49	9.25	13.26	12.67	12.04	12.73	12.14	
Wasatch	5.35	2.65	6.09	6.34	3.93	4.89	6.03	3.51	
REGIONAL TOTALS	40.98	36.74	26.93	34.72	24.95	30.91	29.42	24.39	
Southern									
Beaver	0.00	0.00	0.47	0.26	0.10	0.26	0.54	0.48	
Garfield	0.45	0.18	0.12	0.64	0.10	0.00	0.00	0.32	
Iron	0.00	0.53	1.05	1.99	2.88	1.22	0.60	1.28	
Kane				0.06	0.77	0.00	0.34	0.59	
Millard	0.00	0.00	0.00	0.00	0.38	1.42	0.80	0.80	i e
Piute	0.67	0.35		0.19	1.06	0.19	1.07	0.11	
Sevier	0.22	4.59	1.99	2.63	1.92	3.80	3.49	2.56	
Washington			0.12	0.70	0.00	0.00	0.07		
Wayne	0.00		0.94	0.06	0.58	0.00	0.00	0.16	
REGIONAL TOTALS	1.34		5.62	6.53	7.77	6.89	6.90	6.28	
	1.54	3.03	J.02	0.55	7.11	0.09	0.90	0.20	
Northeastern									
Daggett			3.16	0.77	1.92	0.13	0.40	1.17	
Duchesne	1.78	3.36	1.64	2.31	1.34	1.74	2.41	1.97	
<u> Uintah</u>	1.34	0.88	1.17	1.73	4.61	1.80	0.74	0.64	
REGIONAL TOTALS	3.12	4.24	5.97	4.80	7.87	3.67	3.55	3.78	
Southeastern	·								
Carbon	0.67	2.12	1.76	2.31	2.69	5.15	1.47	1.86	
Emery	0.00	0.18	1.99	1.41	1.54	0.58	0.34	0.53	
Grand	0.67			0.45	0.00	0.06	0.07	0.11	
San Juan	0.00		0.12		0.29	0.00		0.32	
REGIONAL TOTALS	1.34	2.30	3.86	4.16	4.51	5.80	1.88	2.82	<u> </u>
Unknown counties	7.57	1.06	3.28	4.16		0.84	3.42	2.13	
Mixed counties	1.34		13.11			0.00	0.54		
				-					
STATE TOTALS	100	100	100	100	100	100	100	100	
									

Table 13. Distribution of forest grouse hunting pressure by region and county, 1965-72.

Region and									
County	1965	1966	1967*	1968	1969	1970	1971	1972	
Northern									
Box Elder	3.86	4.53	3.35	2.82	3.44	3.09	2.94	4.13	
Cache	18.33	21.15	20.09	21.28	22.33	25.39	22.04	23.20	
Davis	5.14	3.02	2.42	2.35	2.43	2.16	4.56	2.67	
Morgan	0.61	1.51	0.81	3.21	3.02	2.24	2.57	2.97	
Rich	3.22		2.66	2.90	3.27	2.55	3.75	3.02	
Summit	2.89	6.95	8.43	7.59	6.72	3.24	4.48	6.10	
Weber	10.29	9.37	5.43	6.57	13.85	10.03	10.36	13.14	
REGIONAL TOTALS	44.34		43.19	46.71	55.08	48.69	50.70	55.23	
		40.52	73.13	+01/1		40.07	30.70	J	- 1
<u>Central</u>	1 00								
Juab	1.29	0.91	1.27	1.72	1.26	3.01	2.06	1.98	
Salt Lake	12.22	8.46	4.04	4.07	2.27	1.93	3.38	2.91	
Sanpete	3.54	8.16	6.00	6.81	3.61	6.79	4.41	3.20	
Tooele	3.22	1.81	3.81	0.78	1.60	0.85	1.54	0.58	
Utah	13.18	17.82	10.51	13.38	14.60	12.81	13.74	11.69	
<u>Wasatch</u>	4.50	2.11	4.97	5.63	5.04	4.55	4.85	3.84	
REGIONAL TOTALS	37.95	39.27	30.60	32.39	28.38	29.94	29.98	24.19	
outhern									
Beaver	0.64	0.30	0.23	0.47	0.17	0.31	0.73	0.52	
Garfield	0.32	0.30	0.35	0.39	0.34	0.23	0.44	0.58	
Iron	0.32	1.21	1.73	2.32	2.18	1.23	0.66	1.98	
Kane				0.31	0.84	0.15	0.59		
Millard	0.64	0.30	0.58	0.08	0.08	0.93	0.59	1.28	
Piute	0.32	0.30		0.23	0.92	0.54	0.88	0.58	
Sevier	0.96	2.42	1.85	2.66	1.68	4.09	4.04	3.20	
Washington			0.12	0.78	0.42	0.00	0.07	J. 20 	
Wayne	0.32		0.23	0.78	0.42	0.23	0.07		
REGIONAL TOTALS	3.52	4.83	50.8	7.51	6.88	7.72	8.23	0,12 9,19	· • • •
			30.0		0.00	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	0,23		
Northeastern		0 20	1 05	0 70	0 77				
Daggett		0.30	1.85	0.78	0.76	1.08	0.88	0.93	
Duchesne	1.61	2.72	2.08	2.11	1.09	2.47	1.62	1.74	
Uintah	0.96	0.91	2.08	2.03	3.19	2.47	1.54	1.74	
EGIONAL TOTALS	2.57	3.93	6.00	4.93	5.04	6.02	4.04	4.42	
outheastern									
Carbon	1.61	2.42	1.73	3.21	2.27	5.25	2.50	1.98	
Emery	0.32	0.60	0.81	0.86	1.51	0.62	0.81	0.58	
Grand	0.32			0.47	0.25	0.15	0.07	0.17	
San Juan	0.32		0.12		0.59	0.15		0.17	
EGIONAL TOTALS	2.57	3.02	2.66	4.54	4.62	6.17	3.38	2.91	
Jnknown counties	7.07	2.42	3.93	3.91		1.47	3,38	4.07	_
fixed counties	0.96								
TYER CORULTES	0.90		8.55			0.00	0.29		
STATE TOTALS	100	100	100	L00	100	100	100	100	

^{*}Distribution of hunting pressure for 1967 and later based on hunter-days rather than number of hunters reporting.

State-wide summary of forest grouse harvest statistics, 1961-72. Table 14.

	Total			T ₂	Total harvest	vest			Hunter-days	Grouse/ hunter-day	hunter	r-dav	Grouse	per se	season
Year	hunters	Ruffed	(%)	Blue	n (%)	Unknown	(%)	Total	afield	Ruffed	Blue	Total		1 31	Total
1961*	256	128	(36.3)	220	220 (62.3)	5	(1.4)	353	;	1 .	i i	1	0.50	0.86	1.38
1962**	2386	1885	(56.3)		1464 (43.7)	0	6	3349	4276	1.19	0.76	1.96	;	:	:
1963	7425	5470	(40.2)	7372	7372 (54.2)	992	(5.6)	13,608	12,313	0.44	99.0	1.11	0.74	0.99	1.83
1964	6487	5354	(42.2)	6685	(57.7)	652	(5.1)	12,691	10,566	0.51	0.63	1.20	0.82	1.03	1.96
1965	6005	3225	(37.2)	4924	4924 (56.8)	520	(6.0)	8669	10,504	0.31	0.47	0.83	0.54	0.82	1.44
1966	6683	9969		(56.6) 4659 (37.8)	(37.8)	969	(5.7)	12,321	12,387	0.56	0.38	0.99	1.04	0.68	1.84
1967	9420	8476	(48.4)		6773 (38.6)	2277 ((13.0)	17,527	17,773	0.48	0.38	0.99	0.87	0.69	1.86
1968	13,061	17,048	(52.6)	(52.6) 12604 (38.9)	(38.9)	2762	(8.5)	32,414	26,537	0.64	0.47	1.22	1.30	96.0	2.48
1969	12,523	9490	9490 (44.1) 10419 (48.5)	10419	(48.5)	1589	(7.4)	(7.4) 21,498	24,572	0.38	0.42	0.87	0.76	0.83	1.72
1970	12,775	15,590 (48.9) 13515 (42.4)	(48.9)	13515	(42.4)	2793	(8.7)	(8.7) 31,898	26,619	0.59	0.51	1.20	1.22	1.06	2.50
1971	13,363	15,759	(46.4)	(49.4) 13749 (43.1)	(43.1)	2393	(7.5)	31,901	29,100	0.54	0.47	1.10	1.18	1.03	2.39
1972	16,640	20,648	(48.6)	(48.6) 19221 (45.2)	(45.2)	2649	(6.2)	(6.2) 42,518	38,940	0.53	0.49	1.09	1.24	1.16	2.56

TOTALS 1963-72	FOTALS 1963-72 116,905 108,026 (48.0) 99921 (44.4) 17097	108,026	(48.0)	99921	(44.4)	17097	(7.6)	(7.6) 225045	209,311	0.52	0.48	0.52 0.48 1.08 0.92	0.92	0.85	1.92
AVERAGES 1963-71	11,141	9,709 (47.9) 8967 (44.2) 1605	(47.9)	8967	(44.2)	1605	(7.9)	(7.9) 20,281	18,930	0.49	0.49	1.06	0.49 0.49 1.06 0.94 0.90 2.00	06.0	2.00

*Estimated $\star\star Totals$ and indexes based on indiscreet data.

able 15. Forest grouse field bag check summary, 1972

,								- 1			
Kegion		ALI	ALL HUNTS				֓֞֜֜֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓		HUNTS	,	
and Couptv	Total Parties	Total	Total	Total Rirds	Birds/ 100 hrs	Total Complete	: Total	Total	Total Rirds	Birds/ 100 hrs	Birds/
Monthous	2242 224	222		25.440	2011		Hanter 5	2 1001	777	100	Hancer
Box Elder	11	25	80	20	25	10	23	74	18	24	0.78
Cache	350	824	3,916	771	20	322		3,595	724	50	0.97
Davis	;	;	;	1	;	;			1	!	;
Morgan	2	7	12	0	0	2	7	12	0	0	0
Rich	93	237	1,122	177	16	83	207	982	167	17	0.81
Summi t	;	;	;	!	;	;	;	!	ł	;	!
Weber	87	226	955	211	22	74	196	881	196	22	1.00
REGIONAL TOTALS	543	1,316	6,085	1,179	19	491	1,173	5,544	1,105	20	0.94
Central											1
Juab	7	15	67	16	33	က	11	36	15	42	1.36
Salt Lake	5	6	27	0	0	m	7	23	0	0	0
Sanpete	œ	17	28	15	26	0	0	0	0	ł	;
Tooele		2	9	7	33	0	0	0	0	;	1
Utah	37	101	276	74	27	œ	56	96	18	19	0.69
Wasatch	1	1	!	:	1	;	1	;	;	;	;
REGIONAL TOTALS	56	144	917	107	26	14	77	155	33	21	0.75
Southern]									
Beaver	;	;	•	!	:	:	;	;	!	!	1
Garfield	i	!	;	;	;	;	!	;	;	;	;
Iron	!	ļ	;	ľ	!	;	;	;	:	!	;
Kane	m	6	45	23	51	c	ο,	45	23	51	2.56
Millard	1	;	:	1	;	;	1	i	;	1 1	;
Piute	2	7	16	2	12	_	-	4	,	25	1.00
Sevier	∞	20	34	15	7 7	5	11	24	15	62	1.36
Washington	;	;	;	;	;	:	1	;	;	;	!
Wayne	1	;	!	!	:	;	!	;	;	!	;
REGIONAL TOTALS	13	33	95	40	42	6	21	73	39	53	1.86
Northeastern											
Daggett	m	7	19	7	21	1	2	14	က	21	1.50
Duchesne	-	2	S		20	0	0	0	0	!	;
Uintah	2	4	4	9	150	1	2	1	.	100	0.50
REGIONAL TOTALS	9	13	28	11	39	2	4	15	7	27	1.00
Southeastern											
Emerv											
Grand				0 N	DATA	COLLECTE	Q				
San Juan											
REGIONAL TOTALS											
STATE TOTALS	618	1,506	6,624	1,337	20	516	1,242	5,787	1,181	20	0.95

Table 16. Forest grouse hunter success trend determined by field bag checks, 1967-72.

Doodon	1967	5	1068	a a	1060	0	1070	9	1071	1	1072	. 61
vegton	130		120		21	,	177	,				7
and County	Birds/ 100 hrs.	Birds/ Hunter	Birds/ 100 hrs.	Birds/ Hunter	Birds/ 100 hrs.	Birds/ Hunter	Birds/ 100 hrs.	Birds/ Hunter	Birds/ 100 hrs.	Birds/ Hunter	Birds/ 100 hrs	Birds/ Hunter
Northern												
Rox Flder	7	0.17	;	;	33	1.00	;	;	;	;	75	0.78
100 100	. 7		7	0) -	1 0	10	70 0	5		3 8	200
cacne	1	70.0	17		7	0 7	07	0.00	17	0.00	27	76.0
Davis	4	0.16	;	1	-	0.05	!	!	!	:	i	;
Morgan	;	;	133	2.00	;	!	100	1.50	96	1.60	0	0.00
Rich	14	0.42	26	0.76	23	1.00	32	1.14	54	1.09	16	0.81
Summit	25	1,00	77	1.06	:	1	2.5	1.33	14	0.45	;	;
Mohor] =	0.46	23	99.0	7	01.0	12	, C	. 9	0.65	33	
DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF		2	3 6		- 5		1 -	25.0	3		77 5	
KEGLUNAL IOIALS	74	0.34	2	00.0	5	0.33		67.5	177	• 1	F F	7.74
Central										•		
T ₁₁	23	5.5	5.7	1 5.	3%	76 0	20	0.57	33:	1 67	33	1 36
	7 9		~ ·	1.0	\$ >	100	0 6		ý c) · ·	7 6	900
Sait Lake)	0.00	٥	0.22	† 7	1.50	71	0.88	<u>،</u> د	00.0)	0.00
Sanpete	13	1.00	53	1.11	10	0.10	8	1.29	31	0.88	56	0.88
Tooele	;	;	1	!	!	!	17	0.67	;	!	33	1.00
Utah	:	!	53	1.00	19	0.44	16	0.33	26	0.38	27	0.69
Wasatch	64	2.10	13	0.78	83	1.75	!	1	20	1.33	;	!
REGIONAL TOTALS	23	1.18	28	1.10	22	0.54	24		28	0.61	26	0.75
Southern												
Bearer	ļ		1	1	1	1	4	;	7	0 33	;	1
Conf1-14	ļ	l I	! !	!) I	1 1	1 4		t «	200	l I) 1
tar-	:	;	;	:	t I	;	۵ و	0.21	t (0.00	;	1
Lron 	;	!	1 3		!	:	67	0.43	32	00	;;	;
Kane	ł	:	5 0	1.1/	!	:	Δ	0.14	;	;	71	2.56
Millard	;	!	:	t t	1 1	!	1	;	1	1	1 1	;
Pfute	:	:	;	ţ	;	;	:	:	!	;	12	0.75
Sevier	;	!	125	1.25	;	!	;	;	20	1.28	77	1.36
Washington	;	:	!	;	;	;	15	0.67	!	;	:	t I
Wayne		-		1			40	1.33		1		•
REGIONAL TOTALS			39	1.25		:	12	0.32	17	0.38	42	1.86
Northeastern												
Daggett	;	;	;	;	30	2.00	0	0.00	80	1,33	21	0.57
Duchesne	;	;	18	0.56	20	0.33	38	1.17	20	2.00	20	0.50
Uintah	;	;	33	1.23	59	0.40	30	2.33	74	2.36	150	1,50
REGIONAL TOTALS	8	:	28	1.23	40	0.55	28	1.87	49	2.12	39	0.85
Southeastern												
Carbon	;	;	47	1.00	22	0.83	!	;	35	1.75	;	t I
Emery	77	1.00	52	1.50	;	;	!	:	13	0.62	;	;
Grand	:	;	;	;	;	ł	1	;	17	1.00	;	!
San Juan	;	;	;	;		;	;	;	;	!	;	98 ¦
REGIONAL TOTALS	77	1.00	64	1.16	22	0.83		-	26	1.00		
O TATOR OF ALA	3 E	13.0	70	7.0	7.	22.0	· 21	21.0		000	06	30 0
SIRIE IOIALS	0.7	0.01	07	0.,0	74	0.33	70	0.70	77	00.0	77	0.93
			ŀ									

QUAIL

SUMMARY

Quail inventory data indicated poor production during 1972. This, coupled with a low breeding population level, resulted in a low fall population level, especially for Gambel's quail in Washington County.

Total harvest and hunter success declined as expected during the 1972 hunting season; however the decline occurred primarily in the southern, northeastern and southeastern regions. Success in the northern and central regions was low but similar to 1971.





Brood Counts

Results of the annual random brood survey for 1972 are shown in Table 1 of this section. Long-term trends of young-adult ratios, mean brood size and quail observed per 100 hours are shown in Tables 2-4. Survey results for 1972 compared to 1971 and the average as follows:

		Percent	change from
	<u>1972</u>	1971	Average
Total quail observed	990	-12	- 29
Young per 100 adults	17 1	-33	-28
Mean brood size	7.2 1	+10	+2
Quail observed per 100 hours	664	-9	- 20
Total hours effort	149	-3	-16

Harvest data for 1971 indicates a breeding population level for 1972 which was equal to or slightly lower than that for 1971.

Total effort on quail brood counts was low. Indicated density in terms of quail observed per 100 hours effort was less than both 1971 and the average.

Average brood size was higher than both 1971 and the average, but the number of young per 100 adults, the best index of production was considerably lower than both 1971 and the average.

The Gambel's quail population in Washington County was again at a low level due to very poor production.

Harvest

Results of the annual hunter questionnaire are shown in Table 5. Long-term trends of quail bagged per hunter-day, percent of harvest and percent of pressure (hunter-days) by county are found in Tables 6-8 and total State-wide harvest statistics in Table 9.

The 1972 season compared to 1971 and the average as follows:

		<u>Percent</u>	change from
	<u> 1972</u>	1971	Average
			 -
Quail hunters	7 ,380	-8	-7
Quail harvested	16,5 0 4	-22	-31
Hunter-days afield	21,779	+0.9	+13
Quail per hunter	2.24	-14	- 2 5
Quail per hunter-day	0.76	-22	-40

Total hunters in 1972 declined slightly from both 1971 and the average but the number of hunter-days increased, probably a reflection of the increased days spent hunting pheasants. Total harvest and hunter-days declined as expected.

Hunter success for Gambel's quail in Washington County was poor.

Long-term quail harvest statistics are shown in Figure 1.

Gambel's Quail Studies

Annual call-count surveys, long-period waterhole counts and vegetative surveys have been conducted on the west slope of the Beaver Dam Mountains since 1962. Trends of those surveys are shown in Tables 10-12.

Call-counts and waterhole counts decreased quail abundance compared to 1971. Hunter success for Washington County also reflected a decrease.

Vegetative surveys designed to measure the relative abundance of annual forbs, using filaree (Erodium cicutarium) as the indicator species, indicated the poorest production of annuals since these studies were initiated in 1962. This was in response to an extreme drought in southern Utah in early spring of 1972.

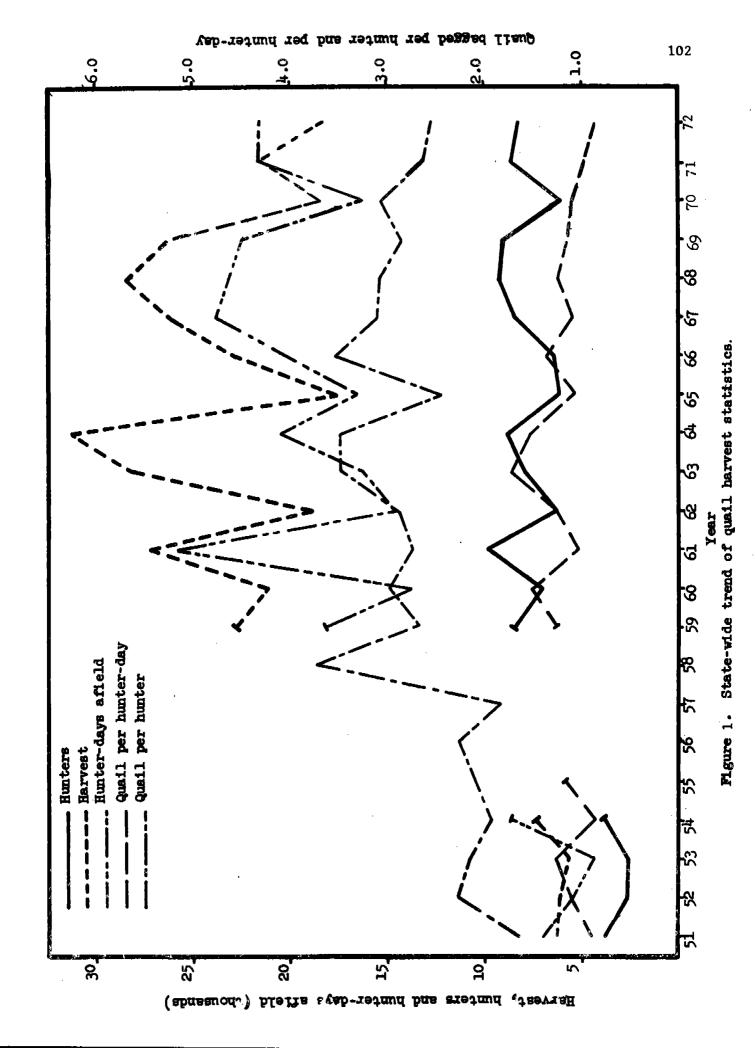


Table 1. Quail summer inventory summary, 1972.

Table 1. Quail s	summer	inne	entor	summer inventory summary, 19/2.	19/2.										
Region	Di	Distinct	1	Ä	d Yng.		E	E	,	1101.5010		o account	House Defort	4	Birde/
and	No.	Broods Ad. Yr	Yng.	Brood Ad.	Adults Yng.	Adults w/o Yng.	Adults	Yng.	100 Ad.	Miles	Veh.	Horse Walk.		Total	100 hrs.
	1										,				
Northern									1	1	;	i	;	;	¦
Box Elder	:	- !	1	! !	l i	:	:	:	<u> </u>	}		: 1		;	1
Cache	:	•	:	1	1	!	!	!	;	;	:	}	1	ļ !	: 1
Davis	;	•	!	' ¦	1	; '	;	: 8	1 L	1 V	;	; <	: <	, ,	1 350
Morgan	7	. · •	23	11.50 0	0	0	4	23	575	91	7	>	>	7	1,330
Rich	:	:	:	:	;	ľ	i i	;	;	;	;	;	:	1	;
Summit	:		1	•	;	;	;	;	1 1	1 (! '	; '	; '	; '	: F
Weber	-		20	10.00 0	0	8	6	2	111	30	이	٥		-	2/1
REGIONAL TOTALS	<u>س</u>	2	33	1 1	0	80	13	33	254	46	2	٥	-	6	511
Central															
Just	:		;	;	1	!	-	!	1 ;	1 1	: :	¦ (; •	`	1 6
Salt Lake	11	19	88	8.00 71	143	112	202	231	114	286	15	0		9 ' :	2,706
Sanpete	5	.,	27	5.40 4	18	0	6	42	200	!	_	:	!	_	1//
Tooele	;	:	-	;	!	;	1	;	;	!	1	ţ	ļ	1 .	1 (
Utah	9	12 4	43	7.17 8	12	0	70	22	275	26	1	!	:	7	1,071
Masatch			1	;	!	;	;	1	1		1			:	
REGIONAL TOTALS 22	1	36 1	158	8	173	112	231	331	143	342	29	٥	-	8	1,873
Southern															
Beaver	:	•	:	:	;	!	ţ	;	;	;	:	;	;	;	;
Garfield	;	•	;	:	;	!	!	:	;	!	!	;	!	1	ł
Iron	:	1	;	;	•	;	;	;	1	1	!	1	1	: ;	;
Kane	0	0	0	0	0	o	0	0	;	210	σ	0	 1 ·	2 ;	; ;
Millard	-	_	7	7.00 0	0	'n	9	7	117	125	7	0	4	=======================================	118
Piute	;	:	;	;	;	!	.	ŀ	1	;	;	;	!	ł	1
Sevier	;	:	;	:	;	•	!	:	;	!	;	!	;	: :	1 6
Washington	ന	4	80	2.67 0	0	10	14	œ	27	240	16	0	7	18	122
Wayne	:		1		:	ŀ		:	1	1		:	:	:	
REGIONAL TOTALS	7	5	15	3.75 0	0	15	20	15	75	575	32	٥	-	33	05
Northeastern										5	5		v	-	;
Daggett	;	•	:	!	;	!	t I	:	! •	907	2 6	!	٦ ٢	3 8	: :
Duchesne			; ;		1 07	; ;	: 2	- 0[165	330	78		7 [19	1,005
DECTONAT TOWAT	71	3 2	1,5	5 00 21	2 8	27	72	119	165	870	55	0	8	63	303
WEST OWNER TOTAL	*														
Carbon	;	•	ŀ	;	;	;	;	;	;	ł	:	;	i	;	;
Emery		10	69	9.86 15	28	4	29	127	438	120	9	;	7	∞	1,950
Grand	1	;	1	;	;	;	ł	;	;	1	!	•	!	:	10 ¦
San Juan	;		;	;	;	1			:	;				:	
REGIONAL TOTALS	-	l	69	9.86 15	58	4	29	127	438	120	9		2	œ	1,950
	87		346	7.21 119	279	166	365	625	171	1,953	124	0	25	149	799
		- 1													

Table 2. Trend of quall young per 100 adults ratios 1964-72*

	ıia.	California.	others (A11 (quail.	Gambel's		ne coun	and Wayne counties,	*Washington, Kane
	171	255	200	229	302	202	303	148	261	STATE TOTALS
04	438	100	283	114	150	383	211	1	8	Regional Totals
	:		1	f ⁻	f	1200	1	1		San Juan
	:	;	;	!	;	:	;	1	•	Grand
	438	20	;	!	0		167	;	3	Emery
	;	125	283	114	200	220	233	;	;	Southeastern Region Carbon
	165	243	301	123	194	141	288	154.	146	Regional Totals
	165	217	218	138	200	133	378	153	147	Uintah
	1	;	0	24	183	171	100	156	140	Duchesne
	;	267	524	:	; 1	;	;	:	:	Daggett
										Northeastern Region
	75	270	98	260	324	223	270	115	146	Regional Totals
	1	0	1,	:	400	;	0	0		*Wayne
	27	320	48	138	323	215	290	114	146	*Washington
	:	;	;	;	;	!	;	;	;	Sevier
	:	:	;	1	;	333	;	¦	;	Piute
	117	233	:	122	;	;	150	;	1	Millard
	1	160	1075	;	;	625	;	314	;	*Kane
	!	:	;	;	ţ	;	;	0	;	Iron
	;	:	;	†	;	;	;	;	;	Garfield
	;	;	;	;	;	;	;	;	;	Beaver
										Southern Region
	143	267	198	337	306	564	414	158	392	Regional Totals
	:	:	;	:	1	-	1	;	:	Wasatch
	275	220	228	300	319	282	394	143	359	Utah
	!	:	;	:	;	;	;	!	;	Tooele
	200	077	476	327	625	262	4 94	350	467	Sanpete
	114	240	173	360	230	241	!	150	629	Salt Lake
	;	:	:	;	;	1	;	;	ł	Juah
										1 6
	254	290	230	183	273	83	275	83	250	Regional Totals
	111	255	0	125	909	;	264	;	;	Weber
	!	;	;	450	;	267	!	383	;	Summit
	1	;	;	;	;	;	1	;	;	Rich
	575	300	329	76	153	141	256	20	200	Morgan
	;	314	;	400	1500	2	175	0	;	Davis
	1	1	;	:	ł	1	;	;	0	Cache
	;	5	;	;	;	800	200	!	200	Box Elder
									:	Northern Region
	1972	1971	1970	1969	1968	1967	1966	1965	1964	County
										Region and

Table 3. Trend of quail mean brood size from 1959-72*.

Region and County	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Northern Region														
Box Elder	;	2.83	7.75	8.00	1	5.00	;	10.00	8.0	;	¦	t 1	:	!
Cache	;	;	:	;	!	;	;	;	:	;	:	Į	;	;
Davis	1	9.33	11.67	7.50	5.00	:	;	ŀ	;	15.0	8.20	;	11,00	
Morgan	:	8.50	6.80	3.57	1	5.00	3.50	9.00	9.00	!	4.80	7.67	12.00	11.50
Rich	ł	;	:	;	:	;	;	;	;	;	:	;	;	;
Summit	ł	;	6.50	9.00	11.50	;	6.67	1	8.00	;	7.00	;	;	;
Weber	6.13	5.14	t	7.67		-	!	13.00	:	12.00	4.00	;	9.33	10.00
Regional Totals	6.13	7.58	7.41	4.91	7.17	2,00	5.40	10.25	6.57	14,25	5.94	7.67	10.50	11.00
Central Region														
Juah	;	;	;	;	;	;	;	;	;	;	;	;	:	;
Salt Lake	9.29	5.50	7.67	;	7.00	8.80	;	;	9.00	6.67	11.42	8.61	7.00	8.00
Sanpete	;	;	7.25	!	5.80	7.00	7.00	9.29	6.30	7.50	6.00	2.67	5.70	2.40
Tooele	;	:	;	;	;	:	;	!	;	;	;	ţ	;	:
Utah	8.13	6.33	6.43	;	7.20	8.09	8.24	8.38	6.80	8.24	8.75	7.85	7.43	7.17
Wasatch	1					;			1			:		
Regional Totals	8.70	6.04	6.88	1	6.90	8.14	8.00	8.65	6.86	7.91	9.67	7.98	6.50	7.18
Southern Region													,	
Beaver	;	:	;	;	;	:	:	;	;	;	;	•	:	:
Garfield	:	:	1	;	!	;	:	;	:	;	;	;	;	:
Iron	;	;	;	;	;	;	;	;	;	:	;	ţ	:	;
*Kane	;	1	;	;	;	;	;	;	;	;	¦	;	8.00	;
Millard	11.00	:	10.00	;	1	;	;	12.00	;	;	4.00	!	8.00	7.00
Piute	;	7.00	;	;	8.50	;	!	;	4.00	:	;	;	:	;
	į	¦	;	;	6.70	;	:	į	1	ł	1	;	;	!
ngton	8.55	8.96	7.12	4.70	7.60	;	8.30	6.92	5.30	7.92	2.90	4.00	6.62	2.67
	10.75	8.00	6.83	;	;		:				• •	,	٠.	
Regional Totals	8.86	8.71	7.24	4.70	7.58	:	8.30	7,11	5.34	7.92	3.50	4.00	7.21	3.75
Northeastern Region														
Daggett	:	;	ł	;	;	;	;	!	:	;	:	5.29	5,45	1
Duchesne	4.75	5.14	9.00	7.50	2.00	7.00	6.25	2.00	;	3.67	3.00	;	:	1 4
Uintah	9.00	;	5.00	;	6.20	7.09	9.67	9.80	6.25	4.80	9	5.43	5.33	5.92
Regional Totals	6.17	5.14	5.25	7.50	8.11	7.08	7.71	8.50	6.25	4.38	5.50	5.32	5.41	5.92
Southeastern Region														
Carbon	7 , 38	;	6.67	10.00	;	7.50	!	7.0	3.67	3.00	4.67	i	;	1 1
Emery	ŧ	1	9.00	;	:	;	;	;	:	;	:	:	2.00	9.86
Grand	;	:	;	;	:	;	;	;	;	;	;	;	;	:
San Juan	:	:	-	:	:	:	-	:		:				:
Regional Totals	7.38		9.50	10.00	:	7.50	:	- 1	:				2.00	9.86
STATE TOTALS	8.45	7.17	7,21	4.77	7.37	7.56	7.61	8,10	5.80	7.76	6.95	6.97	6.58	7.21
*Washington, Kane	and W	and Wayne counties		Gambel's		1	l	California,	nia,					

1967 - 72*.
ratios,
100 hour
d per]
observe
quail
Trend of
Table 4.
-

Region and County	1961	1968	1969	1970	1971	1972	
Northern Region							
Box Elder	;	!	;	;	;	;	
Cache	0	0	;	;	;	1	
Davis	727	1200	1625	0	829	;	
Morgan	189	;	631	1200	400	1350	
Rich	;	:	;	1	:	:	
Summit	23	;	1100	:	1	:	
Weber	-	65	100	86	300	271	
Regional Totals	141	577	657	550	471	511	
Central Region							
Juab	;	;	;	:	;	!	
Salt Lake	1400	248	3684	2637	1133	2706	
Sanpete	470	483	427	817	982	771	
Tooele	ł	;	;	;	;	:	
Utah	2625	1351	2086	959	988	1071	
Wasatch	-		•	:	•		
Regional Totals	1418	1330	2083	1704	1030	1873	
Southern Region							
Beaver	;	;	;	;	;	:	
Garfield	;	;	:	;	:	;	
Iron	99	;	:	;	;	i i	
*Kane	564	;	0	2350	578	1	
Millard	;	:	1800	;	3000	118	
Piute	400	;	;	1	!	!	
Sevier	!	;	;	;	;	:	
*Washington	673	1600	322	316	009	122	
*Wayne	1	:	:	:	33		
Regional Totals	998	1600	2122	420	708	06	
Northeastern Region							
Daggett	!	1	;	3017	1900	;	
Duchesne	43	45	170	29	0	;	
Uintah	525	514	1575	894	1120	1005	
Regional Totals	146	118	794	628	769	303	
Southeastern Region							
Carbon	533	300	377	271	300	:	
Emery	1	;	;	;	83	1950	
Grand	;	:	:	;	;	!	
San Juan	1300	•	1	-	:		10
Regional Totals	750	300	377	271	181	1950	06
STATE TOTALS	525	887	1049	939	728	799	
*Washington, Kane	and Way	ne cour	and Wayne counties Gambel's		quail,	All others C	others California.

Table 5. Summary of quail hunter success and distribution of harvest and hunting pressure by region and county, 1972.

Region and	Hunters	Days	Birds	Birds per	Birds per	% of	% of
County	Reporting	Hunted	Bagged	Hunter-day	Hunter*	Pressure	Harvest
Northern							
Box Elder	10	24	27	1.12	1.00	2.49	3.70
Cache	4	19	1	0.05	1.67	1.98	0.14
Davis	34	81	79	0.98	2.73	8.42	10.84
Morgan	6	16	8	0.50	1.67	1.66	1.10
Rich	1	1	1	1.00	0.00	0.10	0.14
Summit	2	3	2	0.67	1.00	0.31	0.27
Weber	27	69	51	0.74	1.91	7.17	7.00
Regional Totals	84	213	169	0.79	2.16	22.14	23.18
Central							
Juab	0	0	0	0.00	0.00	0.00	0.00
Salt Lake	39	87	99	1.14	2.25	9.04	13.58
Sanpete	8	24	4	0.17	3.00	2.49	0.55
Tooele	2	5	0	0.00	0.00	0.52	0.00
Tooele Utah	95	290	232	0.80	2.33	30.15	31.82
	3	290 5	0	0.00	0.00	0.52	0.00
Wasatch Regional Totals	<u>3</u>	411	335	0.82	2.27	42.72	45.95
Southern_	-	•	-	1 50	3.00	0.21	0.41
Beaver	1	2	3	1.50		0.21	0.00
Garfield	0	0	0	0.00	1.00		0.27
Iron	2	2	2	1.00	3.00	0.21	
Kane	0	0	0	0.00	0.00	0.00	0.00
Millard	4	10	3	0.30	0.00	1.04	0.41
Piute	0	0	0	0.00	0.00	0.00	0.00
Sevier	3	4	0	0.00	1.00	0.42	0.00
Washington	38	124	133	1.07	3.39	12.89	18.24
Wayne _	11	2	4	2.00_	0.00	0.21	0.55
Regional Totals	49	144	145	1.01	2.84	14.97	19.89
<u>Northeastern</u>							
Daggett	1	1	0	0.00	0.00	0.10	0.00
Duchesne	3	4	9	2.25	0.00	0.42	1.23
Uintah _	21	118	45	0.38	2.50	12.27	6.17
Regional Totals	25	123	54	0.44	2.50	12.79	7.41
Southeastern							
Carbon	18	45	14	0.31	0.74	4.68	1.92
Emery	5	11	0	0.00	0.00	1.14	0.00
Grand	Ō	0	0	0.00	0.00	0.00	0.00
San Juan	Ō	0	0	0.00	0.00	0.00	0.400
Regional Totals	23	56	14	0.25	0.74	5.82	1.92
Unknown counties	11	15	12	0.80	0.00	1.56	1.65
Mixed counties	0	0	0	0.00	0.00	0.00	0.00
STATE TOTALS	339	962	729	0.76	2.24	100	100

^{*}Based on county of residence.

Table 6. Summary of quail bagged per hunter-day by region and county, 1965-72.

Region and							1071	1070	
County	1965	1966	1967	1968	1969	1970	1971	1972	
lorthern									
Box Elder	0.67	0.96	0.36	0.89	1.04	0.33	0.45	1.12	
Cache	0.00	0.82	0.53	0.22	0.57	0.20	0.40	0.05	
Davis	0.74	0.62	0.40	0.81	0.60	0.97	0.53	0.98	
Morgan	2.35	2.75	2.10	1,56	2.22	1.68	0.83	0.50	
Rich					0.29	0.00		1.00	
	1.71	3.13	0.93	0.65	1.00	1.50	0.58	0.67	
Summit	1.31	0.85	1.33	0.76	0.95	0.66	0.91	0.74	
Weber REGIONAL TOTALS		0.95	0.96	υ.90	1.00	1.00	0.67	0.79	
REGIONAL TOTALS	1.19	0.93	0.50	0.50	1.00	2,00			
Central									
Juab	0.67	2.80	0.00	0.50	0.00	0.00	0.00		
Salt Lake	1.19	0.71	1.06	1.09	0.77	1.05	0.88	1.14	
Sanpete		0.67	0.82	0.22	0.50	2.00	0.38	0.17	
Tooele	0.56	1.00	0.14	0.00	0.33	3.00	0.00	0.00	
Utah	1.04	1.26	1.14	1.09	1.30	1.12	0.83	0.80	
Wasatch	0.00	6.00	2.00		0.83	1.00	0.00	0.00	. <u></u> .
REGIONAL TOTALS	1.06	1.19	1.06	1.06	1.14	1.12	0.80	0.82	
Southern				•					
Beaver				3.00		1.33	3.00	1.50	
Garfield	1.00			4.00	1.50	0.00			
Iron	2.00	0.50	1.50	4.00	1.17	0.50	1.20	1.00	
Kane		1.00	5.86	3.33	0.75	5.67	2.86		
Millard	0.93	0.20	1.14	0.50	0.44	0.45	0.14	0.30	
Piute	0.00		2.00	0.67	2.60	0.00			
Sevier	0.40	2.60	1.23	0.83	1.80	0.00	0.60	0.00	
Washington	2.03	2.82	1.80	2.45	1.86	1.50	1.81	1.07	
-	2.00	3.50	0.00_	2.67	0.75	0.00	8.00	2.00	
Wayne TOTALS		2.43	1.86	2.31	1.62	1.33	1.82	1.01	
REGIONAL TOTALS	7.71	2.43	1.00	2.51					
<u>Northeastern</u>						0.00		0.00	
Daggett						0.00	1 00		
Duchesne	2.00	0.69	0.50	0.40	1.00	1.00	1.38	2.25	
<u> Uintah</u>	0.76	1.12	0.69	0.71	0.54	1.22	0.53	0.38	
REGIONAL TOTALS	3 0.95	1.02	0.59	0.67	0.60	1.17	0.83	0.44	
Southeastern									
Carbon	0.60	1.79	1.07	1.00	0.89	1.87	0.95	0.31	
Emery	1.67	3.50	0.50	0.25	0.86	1.50	1.50	0.00	
Grand	0.00	0.00			3.00	0.00			
San Juan					1.00	0.00			· · · · · · · · · · · · · · · · · · ·
REGIONAL TOTALS	0.65	1.84	1.00	0.86	0.98	1.77	1.00	0.25	
Unknown countie			1.44	0.17		0.00	1.12	0.80	
						0.00	_=		
Mixed counties	U.05		0.37	3.67		0.00			
STATE TOTALS	1.06	1.36	1.10	1.23	1.16	1.15	0.98	0.76	
OTUTO TOTUDO	00	0							

Table 7. Distribution of quail harvest by region and county, 1965-72.

Region and				 		-		·	
County	1965	1966	1967	1968	1969	1970	1971	1972	
Northern		_				-			
Box Elder	2.42	2.49	0.71	1.82	1.97	0.11	0.51	3.70	
Cache	0.00	0.86	0.78	0.29	1.26	0.11	0.61	0.14	
Davis	5.95	4.40	4.47	7.22	6.64	8.15	6.09	10.84	
Morgan	5.18	6.31	4.94	6.49	11.06	7.50	2.43	1.10	
Rich					0.16	0.00		0.14	
Summit	4.52	2.39	2.19	0.95	0.39	0.33	0.71	0.27	
Weber	14.32	4.21	19.83	3.72	7.90	4.35	7.20	7.00	
REGIONAL TOTALS	32.39	20.66		20.50	29.38	20.54	17.55	23.18	<u></u>
Central									
Juab	0.22	1.34	0.00	0.22	0.00	0.00	0.00		
Salt Lake	14.65	6.41	6.82	7.59	5.69			12 50	
Sanpete	14.05	0.38	0.71	0.15	0.16	7.28 0.22	6.49 0.51	13.58	
Tooele	0.55	0.19	0.08	0.13	0.16	1.30	0.00	0.55	
Utah	32.05	32.22						0.00	
Wasatch	0.00	2.87	24.06	28.01	31.44	33.91	25.46	31.82	
REGIONAL TOTALS	47.47	43.41	0.16 31.82	35.96	0.39	0.11	0.00	0.00	
	47.47	43.41		33.90	37.84	42.83	32.45	45.95	
Southern									
Beaver				0.22		0.43	0.61	0.41	
Garfield -	0.11			0.29	0.24	0.00			
Iron	1.10	0.19	0.94	0.58	0.55	0.98	0.61	0.27	
Kane		0.19	3.21	0.73	0.47	1.85	2.03		
Millard	1.54	0.19	0.63	0.44	0.87	0.54	0.10	0.41	
Piute	0.00		0.16	0.15	1.03	0.00			
Sevier	0.44	1.24	1.25	0.36	0.71	0.00	0.61	0.00	
Washington	8.26	22.08	20.30	32.82	23.22	17.50	26.06	18.24	
Wayne	0.22	1.34	0.00	0.58	0.24	0.00	2.43	0.55	
REGIONAL TOTALS	11.67	25.23	26.49	36.18	27.33	21.30	32.45	19.89	
Northeastern				_					
Daggett						0.00		0.00	
Duchesne	1.32	0.86	1.33	0.15	0.39	1.74	2.94	1.23	
Uintah	2.75	4.40	1.72	1.97	1.50	8.59	2.03	6.17	
REGIONAL TOTALS	4.07	5.26	3.06	2.12	1.90	10.33	4.97	7.41	<u> </u>
Southeastern							1.27		
Carbon	2.31	4.78	2 51	2 55	2 52	, , , ,	ć 00	1 00	
Emery	0.55	0.67	2.51 0.16	2.55	2.53	4.67	6.09	1.92	
Grand	0.00	0.00		0.15	0.47	0.33	0.91	0.00	
San Juan					0.47	0.00		0.00	
					0.08	0.00	7.00	0.00	
REGIONAL TOTALS	2.86	5.45		2.70	3,55	5.00	7.00	1.92	
Unknown counties	0.33		1.80	1.75		0.00	5.58	1.65	
Mixed counties	1.21		1.25	0.80		0.00			
STATE TOTALS	100	100	100	100	100	100	100	100	

Table 8. Distribution of quail hunting pressure by region and county, 1965-72.

able o. Discillo		1	_						
egion and		1066	1067%	1069	1969	1970	1 971	1972	
ounty	1965	1966	1967*	1968	1909	1970	<u> </u>		
orthern									
Box Elder	3.23	3.81	2.16	2.51	2.20	0.37	1.09	2.49	
	1.35	1.90	1.64	1.62	2.56	0.62	1.49	1.98	
Cache	6.74		12.24		12.82	9.61	11.19	8.42	
Davis	3.77	3.81	2.59	5.12	5.77	5.12	2.87	1.66	
Morgan	J.//				0.64	0.00		0.10	
Rich	2.96	1.90	2.59	1.80	0.46	0.25	1,19	0.31	
Summit	12.94	8.25	16.38	6.01	9.62	7.62	7.72	7.17	
Weber		27.61	37.59	28.01	34.07	23.60	25.54	22.14	
EGIONAL TOTALS	30.99	27.01	31.33	20.01	34.07				
Central					0 07	0.25	0.10		
J ua b	0.54	1.27	1.03	0.54	0.37	0.25	7.23	9.04	
Salt Lake	14.56	12.38	7.07	8.53	8.61	7.99		2.49	
Sanpete		0.95	0.95	0.81	0.37	0.12	1.29		
Tooele	1.35	0.63	0.60	0.09	0.55	0.50	0.40	0.52	
Utah	26 .1 5	32.38	23.28	31.69	28.11	34.83	30.00	30.15	
Wasatch	0.27	0.32	0.09		0.55	0.12	0.50	0.52	
REGIONAL TOTALS	42.87	47.93	33.02	41.65	38.55	43.82	39.50	42.72	
			·						
Southern				0.09		0.37	0.20	0.21	
Beaver				0.09	0.18	0.00			
Garfield	0.27				0.15	2.25	0.50	0.21	
Iron	0.81	0.63	0.69	0.18		0.37	0.69		
Kane		0.32	0,60	0.27	0.73	1.37	0.69	1.04	
Millard	1.35	1.59	0.60	1.08	2.29				
Piute	0.27		0.09	0.27	0.46	0.00	0.99	0.42	
Sevier	1.35	1.27	1.12	0.54	0.46	0.62			
Washington	6.47	8.89	12.41	16.52	14.47	13.36	14.06	12.89	
Wayne	0.27	0.63	0.17	0.27	0.37	0.00	0.30	0.21	
REGIONAL TOTALS	10.79	13.33	15.69	19.30	19.51	18.35	17.43	<u>14.97</u>	
Northeastern						0.00		0.10	
Daggett			2 02	0.45	0.46	2.00	2.08	0.42	
Duchesne	1.08	1.59	2.93			8.11	3.76	12.27	
Uintah	3.50	4.44	2.76	3.41	3.21		5.84	12.79	
REGIONAL TOTALS	4.58	6.03	5.69	3.86	3.66	10.11	٠.04	12,13	
Southeastern								1.00	
Carbon	4.31	4.44	2.5 9	3.14	3.30	2.87	6.24	4.68	•
Emery	0.81	0.32	0.34	0.72	0.64	0.25	0.59	1.14	
Grand				- -	0.18	0.12			
San Juan					0.09	0.00			
REGIONAL TOTALS	5.39	5.08	2.93	3.86	4.21	3.25	6.83	5.82	
Unknown counties	4.04		1,38			0.87	4.85	1.56	
	1.35		3.71			0.00			
Mixed counties	1,4	<u></u> -			<u> </u>		<u></u>		····
STATE TOTALS	100	100	100	100	100	100	100	100	

^{*}Distribution of hunting pressure for 1967 and later based on hunter-days rather than number of hunters reporting.

Table 9. State-wide summary of quail harvest statistics, 1951-72.

Year	Total Hunters	Total harvest	Hunter days afield	Quail per hunter-day	Quail per hunter
1951	3,856	6,362	7,069	0.90	1.65
1952	2,694	6,105	5,500	1.11	2.27
1953	2,676	5,753	4,494	1.28	2.15
1954	3,855	7,479	8,696	0.86	1.94
1955		÷-		1.17	2.10
1956					2.26
1957					1.85
1958					3.73
1959	8,554	22,854	18,174	1.26	2.67
1960	7,117	21,272	13,971	1.52	2.99
1961	9,980	27,362	25,746	1.06	2.74
1962	6,462	18,710	14,660	1.27	2.89
1963	8,059	28,088	16,383	1.71	3.49
1964	8,951	31,189	20,510	1.52	3.48
1965	6,163	17,532	16,528	1.06	2.45
1966	6,465	22,771	16,720	1.36	3.52
1967	8,455	26,187	23,806	1.10	3.10
1968	9,302	28,469	23,132	1.23	3.06
1969	9,160	26,119	22,529	1.16	2.85
1970	6,141	18,896	16,452	1.15	3.08
1971	8,039	21,082	21,595	0.98	2.62
1972	7,380	16,504	21,779	0.76	2.24
TOTALS			and = = =		
	110,228	327,035	271,985	1.20	2.97
AVERAGES (1959-71)	7,911	23,887	19,247	1.26	3.00

Gambel's quail call-count trends on the west slope of the Beaver Dam Mountains, Washington County, 1962-72. Table 10.

Index	1962	1963	1964	1965	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972	1967	1968	1969	1970	1261	1972
Mean calls per station	2.71	2.71 1.67 0.	0.68	:	9.2	9.2 1.23 6.08	6.08	9	0.08	0.08 1.57 0.36	0.36
Mean quail calling per station 0.41 0.22	0.41	0.22	0.15	:	1,10	1.10 0.33 1.16	1,16	;	0.08	0.08 0.37 0.11	0.11
Mean total calls-route	41.0 25.0	25.0	10.1	;	138.5 18.4 91.2	18.4	91.2	;	1,33 23.5		5.3
Mean total quail calling-route 7.0 3.3	7.0	3.3	2.3	!	17.0 5.0 17.4	5.0	17.4	;	1.33 5.5 1.7	5.5	1.7

Gambel's quail long-period waterhole count trend on the west slope of the Beaver Dam Mountains, Washington County, 1962-72. Table 11.

Index	1962 1963	1963	1964	1965	1966	1967	1968	1969	1970 1971 1972	1971	1972
Total young	99	33	19	1	130	20	86	96	21	33	0
Total adults	142	45	13	ł	40	30	24	40	45	80	0
Total quail	208	78	32	:	170	80	122	130	99	41	:
Young per 100 adults	46	73	146	;	325	167	408	225	47	412	;

Trend of filaree plants per square foot on the west slope of the Beaver Dam Mountains, 1962-72. Table 12.

Area	1962 1963	1963	1964	1964 1965 1966 1967 1968 1969 1970 1971 1972	1966	1967	1968	1969	1970	1971	1972
Vern's Wash (B-1)	0.12	0.03	0.19 0.85	0.85	;	1.89	0.39	0.10	0.10	0.07	1
Reber Wash (B-2)	0.92	0.59	0.82	2.23	;	3,35	1.07	0.32	0.17	00.00	00.00
Brick Wash (A-1)	2.80	0.28	1.02	2.02		1.84	0.54	0.14	0,11	0.13	0.04
Gravel Canyon (A-2)	4.60	0.46	97.0	1.36	!	4.39 (0.28	0.28 1.28 0.05	0.05	0.28	0.04
AVERAGE	2.11 0.34	0.34	0.62 1.62	1.62		2.87	2.87 0.57 0.46 0.11 0.14 0.03	0.46	0.11	0.14	0.03

HUNGARIAN PARTRIDGE

SUMMARY

Harvest data for 1971 indicated an increased breeding population level in the northern region for 1972 and a reduction in the central region. Production data was too limited to estimate population trend.

During the 1972 hunting season, more hunters spent more days afield, but bagged fewer Huns. The increased pressure probably reflects a substantial increase in pheasant hunter-days afield and the fact that Huns are bagged largely coincidental to hunting pheasants.





Brood Counts

Results of the annual random brood counts are shown in Table 1 of this section. Long-term trends of young-adult ratios, mean brood size and Huns observed per 100 hours are shown in Tables 2-4. Results of this survey for 1972 compared to 1971 and the average as follows:

		Percent	change from
	<u>1972</u>	1971	Average
Total Huns observed	194	-22	- 54
Young per 100 adults	424	-14	-7
Mean brood size	10.33	+27	+13
Huns observed per 100 hours	139	-43	-58
Total hours effort	140	+36	+9

Harvest data for 1971 indicated an increased breeding population level in Box Elder County and a reduced one in Wasatch County.

Production data shows a reduction in young per 100 adults, but an increased brood size. The smaple size was too small to be reliable in estimating fall population trend.

Harvest

Hunter Questionnaire

Results of the annual hunter questionnaire are shown in Table 5. Long-term trends of Huns bagged per hunter-day, percent of harvest and percent of pressure (hunter-days) by county are found in Tables 6-8 and total State-wide harvest statistics in Table 9. The 1972 season compared to 1971 and the average as follows:

		Percent	change from
	<u>1972</u>	1971	Average
Hungarian partridge hunters	4,754	+11	+9
Hungarian partridge harvest	7,335	-22	-29
Hunter-days afield	12,135	+10	+14
Huns per hunter	1.54	-30	-32
Huns per hunter-day	0.60	-29	-36

Total hunters and hunter-days afield in 1972 increased slightly from both 1971 and the average. Total harvest and hunter success both declined.

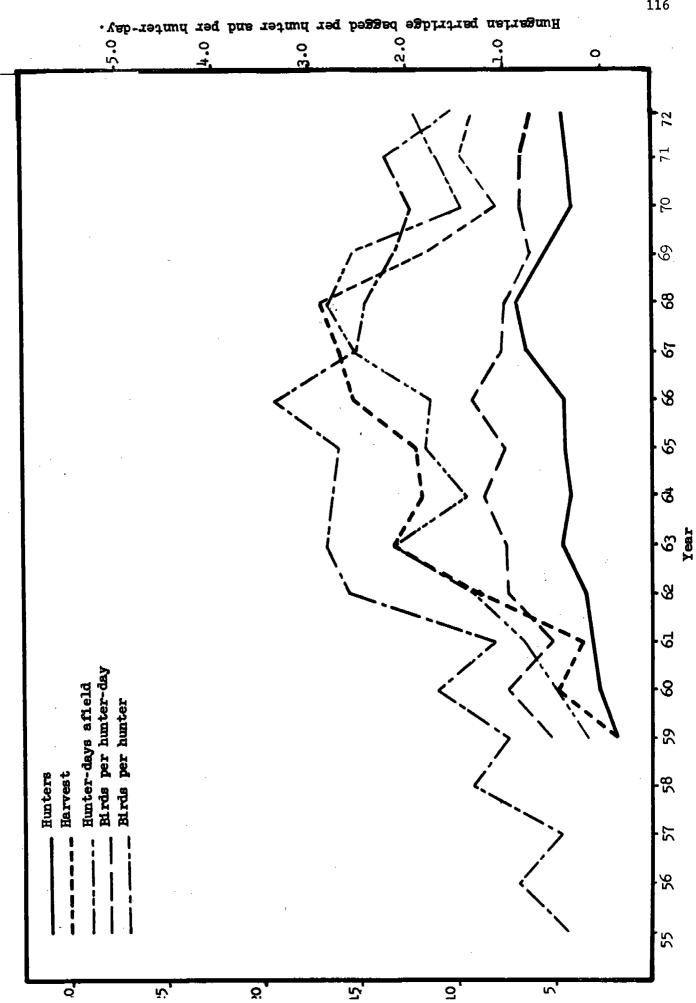
The trend of harvest statistics is shown in Figure 1. An undetermined, but presumed substantial, percentage of the annual harvest of Hungarian partridge occurs incidental to hunting pheasants. Consequently, indicated Hun hunting pressure trends may reflect changes in pheasant hunting pressure rather than abundance of Huns.

Field Bag Checks

Results of this survey for 1972 are shown in Table 10. Hunter success trends determined via this method are shown in Table 11. Indexes obtained for 1972 compared to 1971 and the average as follows:

		Percent	change from
	<u>1972</u>	1971	Average
Total hunters checked	137	-20	-42
Total hours hunted	614	-34	-46
Huns per hunter (complete hunts)	0.75	-9	+7
Huns bagged per 100 hours	17	+13	+21
Average hours per hunter-day			
(complete hunts)	4.3	+20	+14
Hours hunted per Hun bagged	6.0	-9	-13

Results of this survey suggest that hunter success in 1972 was similar to or only slightly less than in 1971. Hunters spent less time per hunter-day with less effort required per bird bagged. All data compiled was from Box Elder County.



Higure 1. State-wide trend of Hungarian partridge harvest statistics,

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Region	Dist	Distinct			Mixed Yng.	Yng.										
and	Bro	Broods	24	Mean	& Adults		Adults	Total	Total	/SunoX	41		Hours	Effc	ال	Birds/
County	No. A	No. Ad. Yng		Brood	Ad.	. •	w/o Yng.	Adults	Young	100 Ad.	Miles	Veh.	Horse	Walk	Total	100 hrs.
Northern					c	ć	1	ç	10.	076	1 255	63	75	ď	119	133
Box Elder	⊶ ∞	13	92 I	11.50	7)	2	/1	C C	77	610	1,477	7	t	י י	; ;) I
Cache	;	!	ļ	;	!	1	!	! !	!	! !	1	•	1) 		1
Davis	1	!	:	:	!	1	!	!	;	i t	! !	;	l	1 1	¦ ;	. ;
Morgan	;	1	;	;	;	ŀ	;	!	!	:	1	;	:	! !)	! ! ! !
Rich	:	1	:	;	!	1	:	1 1	;	:	:	:	;	;	:	!
Summit	!	1	:	!	:	!	:	;	:	;	ļ	1	:	!	:	;
Weber	;		:	1	- 1		:	:	:	:		1	:		ן:	1 6
REGIONAL TOTALS	8 1	13 9	92 1	11.50	3	33	17	33	125	379	1,255	62	54	m	119	133
Central																
Juab	;	1	:	;	;	ļ	i I	;	1	;	;	;	;	;	; ;	1
Salt Lake	!	•	;	1	:	!	1	;	;	:	80	m	_	0	27	;
Sanpete	;	,	1	!	! !	;	1	:	1	!	!	!	1	!	;	:
Tooele	;	•	•	;	1	;	:	;	;	:	;	;	;	;	;	.
IItah	1	!	;	;	;	;	;	;	;	1	15	ന	0	0	m	;
Wasatch	7	4 3	2	8.00	0	0	0	7	32	800	31	8	0	٥	8	450
REGIONAL TOTALS	7	1	32	8.00	0	0	0	7	32	800	126	14	7	0	21	171
Southern Beaver Garfield																
Kane						I O N	APP	LICA	BLE							
Millard																
Piute																
Sevier																
Washington																
Wayne RECTONAL TOTALS																
									}					ì		
Northeastern Daggett Duchesne						T O N	APP	LICA	BLE							
Uintah																
REGIONAL TOTALS																
Southeastern																
Carbon																
Emery						N O T	APP	LICA	BLE							11
Grand San Juan																7
REGIONAL TOTALS																
STATE TOTALS	12 1	17 124		10.33	ť	33	17	37	157	454	1,381	9/	61	m	140	139

Region and County	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	
Northern Region	1000	828	326	510	447	400	325	306	524	379	
box Eluei Cache	3 1	} !	; ;	152	875	450	:	;	:	!	
Davis	;	;	;	;	! .	!	:	!	1	•	
Morgan	ļ	;	:	;	300	;	:	;	1400	:	
Rich	069	400	683	675	288	900	0	:	!		
Summit	i	;	ť	:	;	•	!	;	:	1	
Weber	260	1	:	:	1		:	;			
Regional Totals	653	776	380	395	644	421	319	306	553	379	
Central Region										;	
Juah	:	;	;	:	;	;	1	;	1 1		
Salt Lake	;	;	;	;	;	;	;	:	1	1	
Sanpete	;	;	;	;	:	;	:	:	;	ŧ	
Tooele	:	;	;	!	!	;	:	:	;	1	
Utah	;	;	;	:	1	;	;	1 ;	1 5		
겅	550	390	385	270	403	442	497	414	350	800	
Regional Totals	550	390	385	270	403	442	497	414	350	800	
Southern Region											
Beguer											
Garfield											
Iron											
Kane					1						
Millard			z	O T A	P P L]	ICAB	니 되				
Piute											
Sevier											
Washington											
Wayne											
vektonar iorais											
Northeastern Region			•								
Daggett			Z	N O T A	P P L	ICAB	田田				
Uintah											
Regional Totals											
Southeastern Region	,					•					
Carbon											
Emery			Z	O T A	APPL	ICAB	그 크			11	11
Grand Son Tuen										8	8
Regional Totals											1
STATE TOTALS	642	710	382	370	435	430	325	319	495	424	
A											

Trend of Hungarian partridge mean brood size from 1963-72. Table 3.

Region and County	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	
Northern Region Box Elder	10.00	13.69	6.53	11.06	8.60	7.00	5.75	11,82	7.82	11.50	
Cache	1	:	;	7.00	11.67	9.00	;	;	!	1	
Davis	. 1	:	;	;	:	;	;	1	1 9	1	
Morgan	;	1		•	;	1 3	:		14.00	•	
Rich Commit	9.60	8.00	13.66	13.50	7.67	9.6	1 ;	: :	: :		
Taker Taker	. !	: :	1		:	;	;	;	;	;	
Regional Totals	9,25	13,10	7.60	10,44	8.77	7.24	5.75	11,58	8,16	11.50	
Central Region											•
Juab	;	;	;	:	;	;	;	;	-	-	
Salt Lake	1	;	;	1	ļ	ł	!	;	1	•	
Sanpete	9	;	;	1	*	1	;	;	;	!	
Tooele	;	1	;	;	1	;	;	;	;	!	
Utah	!	:	;	:	;	;	;	:	;	1 0	
Wasatch	:	7.80	7.70	6.57	10.00	9.00	9.94	7.25	;	8.00	
Regional Totals	:	7.80	7.70	6,57	10.00	00'6	9.94	7.25	;	8.00	
Southern Region											
Beaver											
Garfield											
Iron											
Kane			5		د د -	۲	P				
Millard			Z		# 1 1	⊣	a -1				
Piute											
Sevier											
washington											
Regional Totals											
Northeastern Region											
Daggett											
Duchesne			Z	1 O	APPL	ICAB	I E				
Uintah					٠						
Regional Totals											
Southeastern Region											
Carbon											
Emery			Z	NOT	APPL	ICAB	디				٠
Grand											11
San Juan									ļ		9
Regional Totals											
STATE TOTALS	9.25	12.32	7.63	9.59	9.07	7.93	6.87	10.50	8.16	10.33	
	,		r								

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Trend
Table 4.

Region and County	1967	1968	1969	1970	1971	1972	
Northern Region	256	192	416	210	213	133	
Cache	175	209	0	1		1	
Davis	;	;	;	;	:	!	
Morgan	73	!	1	:	;	!	
Rich	238	333	•	1	; , }	: :	
Summit	;	: ;	: :	: :	: ;	;	
Regional Totals	235	261	385	210	213	133	
Central Region							
Juah	;	. !	;	;	;	1	
Salt Lake	;	;	;	;	;	1	
Sanbete	:	;	;	;	1	1	
Tooele	;	:	:	:	:	:	
Utah	!	;	;	:	1	1 5	
Wasatch	777	1193	1415	720	900	450	
Regional Totals	777	1193	1415	/20	3		
Southern Region Beaver Garfield Iron Kane Millard Piute Sevier Washington Wayne Northeastern Region Daggett Duchesne Uintah Regional Totals Southeastern Region Carbon Emery Grand San Juan	Z Z	H O H O H	A P P L A P P L	APPLICAB APPLICAB	고 된 된 된 된 표		
STATE TOTALS	292	383	508	249	243	139	

Table 5. Summary of Hungarian partridge hunter success and distribution of harvest and hunting pressure by region and county, 1972.

Region and	Hunters	Days	Birds	Birds per	Birds per	% of	% of
County	Reporting	<u>Hunted</u>	Bagged	Hunter-day	Hunter*	Pressure	Harvest
Northern Box Elder	105	277	156	0.56	1.93	51.68	48.15
Cache	34	63	44	0.70	1.19	11.75	13.58
Davis	3	6	8	1.33	2.17	1.12	2.47
Morgan	10	29	33	1.14	0.00	5,41	10.19
Rich	3	7	3	0.43	0.00	1.31	0.93
Summit	3	4	2	0.50	3.00	0.75	0.62
Weber	14	36	28	0.78	1.68	6.72	8.64_
Regional Totals	172	422	274	0.65	1.76	78.73	84.57
				<u> </u>			
Central Juab	2	2	0	0.00	0.00	0.37	0.00
Salt Lake	5	6	Ö	0.00	1.06	1.12	0.00
Sanpete	2	2	2	1.00	0.00	0.37	0.62
Tooele	4	6	1	0.17	0.00	1.12	0.31
Utah	. 9	20	3	0.15	0.46	3.73	0.93
Wasatch	13	52	23	0.44	3.00	9.70	7.10
Regional Totals	35	88	29	0.33	1.11	16.42	8.95
				<u> </u>			
Southern Beaver	0	0	0	0.00	0.00	0.00	0.00
Garfield	Ö	ő	Ö	0.00	0.00	0.00	0.00
Iron	0	0	Ö	0.00	0.00	0.00	0.00
Kane	0	Ö	ő	0.00	0.00	0.00	0.00
Millard	Ö	Ŏ	ő	0.00	0.00	0.00	0.00
Piute	Ö	ŏ	ŏ	0.00	0.00	0.00	0.00
Sevier	2	3	ŏ	0.00	0.00	0.56	0.00
Washington	0	0	0	0.00	0.00	0.00	0.00
_	1	1	0	0.00	0.00	0.19	0.00
Wayne Regional Totals	3	4	0	0.00	0.00	0.75	0.00
Northeastern	-	1	1	1.00	0.00	0.19	0.31
Daggett	1	1 0	1 0	0.00	0.00	0.00	0.00
Duchesne	0 2	4	0	0.00	0.00	0.75	0.00
Uintah Regional Totals	3		<u></u> 1	0.00	0.00	0.93	0.31
			 				
Southeastern		•	,	0.33	0.00	0.56	0.31
Carbon	2	3	1	0.33	0.00	0.00	0.00
Emery	0	0	0	0.00		0.00	0.00
Grand	0	0	0	0.00	1.00 0.00	0.00	0.00
San Juan	0	<u>0</u> 3	0	0.00	0.33	0.56	0.31
Regional Totals	2		1	0.33			•
Unknown counties	8	13	19	1.46	0.00	2.43	5.86
Mixed counties	1	1	0	0.00	0.00	0.19	0.00
STATE TOTALS	224	536	324	0.60	1.54	100	100

^{*}Based on county of residence.

Table 6. Summary of Hungarian partridge bagged per hunter-day by region and county, 1965-72.

									. <u> </u>
Region and	1065	1066	1067	1069	1969	1970	1971	1972	
County	1965	1966	1967	1968	1969	19/0	19/1	19/2	
Northern									
Box Elder	1.32	1.65	1.45	1.04	0.81	0.87	0.94	0.56	
Cache	0.77	1.14	0.65	1.23	0.71	1.14	0.87	0.70	
Davis	- -	0.00	0.50	1.81	0.92	0.09	0.50	1.33	
Morgan		1.00	0.00	0.96	0.68	1.00	1.24	1.14	
Rich	3.22		1.43	0.40	0.00	0.57	1.33	0.43	
Summit	0.00	0,00	0.16	0.40	2.56	0.00	1.50	0.50	
Weber	0.33_	0.46	0,88	1.09_	0.58	0.31	0.75	0.78	
REGIONAL TOTALS	1.14	1.42	1.16	1.07	0.78	0.87	0.94	0.65	
Central									
Juab	 -	2.00	0.00	3.00	0.00	0.57	0.00	0.00	
Salt Lake	0.25	0.00	0.17	0.23	0.85	0.50	0.50	0.00	
Sanpete	0.00				2.27	0.67		1.00	
Tooele	0.00	0.20	0.41	0.00	0.62	0.81	0.20	0.17	
Utah	0.37	0.23	0.25	0.57	0.22	0.56	0.17	0.15	
Wasatch	1.23	0.24	1.74	1.00	0.29	1.03	0.71	0.44	
REGIONAL TOTALS	0.71	0.26	0.76	0.85	0.70	0.77	0.54	0.33	
	- 1.1								
Southern			_						
Beaver									
Garfield									
Iron		0.00					_		
Kane			0.00						
Millard				0.00		1.00			
Piute	0.00	2.00	0.00	0.00			0.60	- -	
Sevier		2.00	0.00	0.00			1.00	<u></u>	
Washington									
<u>Wayne</u> REGIONAL TOTALS	0.00	0.67	0.00	0.00		1.00	0.64		
	0.00_	0.07	<u> </u>	- 0.00					
Northeastern					0.00	0.00	- -	1.00	
Daggett		1 47	0.00	1 67	0.00	0.00	3.00		
Duchesne	0.00	1.67	0.00	1.67	2.00	0.00	3.00	0.00	
Uintah	0.00	1 67	0.25	0.00	0.00	0.00	3.00	0.00	
REGIONAL TOTALS	0.00	1.67	0.20	1.25	0.75	0.00	٠٠.٠٠	0.40	
Southeastern					1 50	1 00	0.00	0.33	
Carbon			0.00		1.50	1.00	0.00	0.33	
Emery		- -				0.00			
Grand					2.00	1.67			
San Juan					2.00 1.67	0.86	0.00	0.33	
REGIONAL TOTALS			0.00						
Unknown counties	0.39		1.12	0.82		0.00	1.17	1.46	
Mixed counties	1.13		0.20					0.00	
						0.01	2 25	0.60	
STATE TOTALS	1.03	1.34	1.06	1.02	0.77	0.84	0.85	0.60	
	· · · · · ·								

Table 7. Distribution of Hungarian partridge harvest by region and county, 1965-72.

egion and		7066	1067	1069	1969	1970	1971	1972	
ounty	1965	1966	<u> 1967_</u>	1968	1909	1970	<u> </u>		
lorthern									
Box Elder	65.93	71.06	72.5 1	51.76	52.93	41.40	55.45	48.15	
Cache	13.47	25.11	9.97	19.08	7.93	32.42	10.91	13.58	
Davis		0.00	0.77	4.62	2.07	0.25	0.23	2.47	
Morgan		0.57	0.00	2.67	7.76	1.50	4.77	10.19	
Rich	4.60		2.56	0.49	0.00	1.00	1.82	0.93	
Summit	0.00	0.00	0.51	0.97	3.97	0.00	1.36	0.62	
Weber	2.22	0.85	2.69	4.37	8.10_	2.49	4.77	8.64	<u> </u>
REGIONAL TOTALS	86.22	97.59	89.00	83.96	82.76	79.05	79. <u>32</u>	84.57	
Central									
Juab		0.28	0.00	0.73	0.00	1,00	0.00	0.00	
Salt Lake	0.16	0.00	0.38	0.36	1.90	1.00	0.68	0.00	
Sanpete	0.00				8.62	0.50		0.62	
Tooele	0.00	0.14	0.90	0.00	1.38	4.24	0.45	0.31	
Utah	1.11	0.43	0.51	1.46	0.69	3.74	0.91	0.93	
Wasatch	7.61	0.57	6.01	8.87	2.76	8.73	11.82	7.10	
REGIONAL TOTALS	8.88	1.42	7.80	11.42	15.34	19.20	13.86	8.95	
	0.00								
Southern .									
Beaver									
Garfield									
Iron									
Kane		0.00							
Millard			0.00						
Piute				0.00		0.25		0.00	
Sevier	0.00	0.28	0.00	0.00			1.36		•
Washington			0.00	0.00			0.23	0.00	
Wayne							1 50	0.00	
REGIONAL TOTALS	0.00	0.28	0.00	0.00	0.00	0.25	1.59	0.00	
Northeastern									
Daggett					0.00	0.00		0.31	
Duchesne	0.00	0.71	0.00	0.61	1.03		2.05		
Uintah			0.38	0.00	0.00	0.00		0.00	
REGIONAL TOTALS	0.00	0.71	0.38	0.61	1.03	0.00	2.05	0.31	
Southeastern									
Carbon			0.00		0.52	0.25	0.00	0.31	
Emery						0.00			
Grand						1.25			
San Juan					0.34				
REGIONAL TOTALS	0.00	0.00	0.00		0.86	1.50	0.00	0.31	
Unknown counties			2.43	4.01		0.00	3.18	5.86	
Mixed counties	2.85		0.38			0.00		0.00	
TITACG COUNCICS									
STATE TOTALS	100	100	100	100	100	100	100	100	
OTUTE TOTUED	-00								

Table 8. Distribution of Hungarian partridge hunting pressure by region and county, 1965-72.

County 1965 1966 1967* 1968 1969 1970 1971 1972										<u> </u>
Northern So. Region and				1060	1000	1070	1071	1072		
Box Elder 56.65 58.45 53.13 50.93 50.27 39.96 50.49 51.68 Cache 18.45 24.20 16.30 15.94 8.64 23.85 10.68 11.75 Davis 1.37 1.63 2.62 1.73 2.30 0.39 1.12 Morgan 0.91 1.63 2.86 8.78 1.26 3.30 5.41 Rich 1.29 1.90 1.25 0.27 1.46 1.17 1.31 Summit 0.43 0.46 3.40 2.49 1.20 1.05 0.78 0.75 Weber 6.44 3.65 3.26 4.11 10.77 6.69 5.44 6.72 RRGIONAL TOTALS 83.26 89.04 81.25 80.20 81.65 76.57 72.23 78.73 Central Juab 0.46 0.27 0.25 0.66 1.46 0.19 0.37 Sait Lake 0.43 0.91 2.45 1.62 1.73 1.67 1.17 1.12 Sampete 0.43 2.93 0.63 0.37 Tooele 2.15 1.83 2.31 0.25 1.73 4.39 1.94 1.12 Utah 2.58 2.74 2.17 2.62 2.39 5.65 4.66 3.73 Wasatch 5.58 3.20 3.67 90.9 7.45 7.11 4.17 9.70 REGIONAL TOTALS 11.7 9.14 10.87 13.82 16.89 20.92 22.14 16.42 Southern Beaver	County	1965	1966	196/*	1968	1969	1970	19/1	19/2	
No. The color No. Northern								:_		
Davis	Box Elder	56.65	58.45							
Morgan	Cache	18.45								
No. State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State	Davis									
Numit	Morgan		0.91							
Weber 6.44 3.65 3.26 4.11 10.77 6.69 5.44 6.72 REGIONAL TOTALS 83.26 89.04 81.25 80.20 81.65 76.57 72.23 78.73 Central Juab 0.46 0.27 0.25 0.66 1.46 0.19 0.37 Salt Lake 0.43 0.91 2.45 1.62 1.73 1.67 1.17 1.12 Sanpete 0.43 2.93 0.63 0.37 Tooele 2.15 1.83 2.31 0.25 1.73 4.39 1.94 1.12 Utah 2.58 2.74 2.17 2.62 2.99 5.65 4.66 3.73 Wasatch 5.58 3.20 3.67 9.09 7.45 7.11 14.17 9.70 REGIONAL TOTALS 11.17 9.14 10.87 13.82 16.89 20.92 22.14 16.42 Southern	Rich									
REGIONAL TOTALS 83.26 89.04 81.25 80.20 81.65 76.57 72.23 78.73	Summit									
Central Juab 0.46 0.27 0.25 0.66 1.46 0.19 0.37 Salt Lake 0.43 0.91 2.45 1.62 1.73 1.67 1.17 1.12 Sanpete 0.43 2.93 0.63 0.37 Tooele 2.15 1.83 2.31 0.25 1.73 4.39 1.94 1.12 Utah 2.58 2.74 2.17 2.62 2.39 5.65 4.66 3.73 Wasatch 5.58 3.20 3.67 9.09 7.45 7.11 14.17 9.70 REGIONAL TOTALS 11.17 9.14 10.87 13.82 16.89 20.92 22.14 16.42 Southern Beaver										
Juab	REGIONAL TOTALS	83.26	89.04	81.25	80.20	81.65	76.57_	/2.23	/8./3	· · · · · · · · · · · · · · · · · · ·
Salt Lake 0.43 0.91 2.45 1.62 1.73 1.67 1.17 1.12 Sanpete 0.43 2.93 0.63 0.37 Tooele 2.15 1.83 2.31 0.25 1.73 4.39 1.94 1.12 Utah 2.58 2.74 2.17 2.62 2.39 5.65 4.66 3.73 Wasatch 5.58 3.20 3.67 9.09 7.45 7.11 14.17 9.70 RECIONAL TOTALS 11.17 9.14 10.87 13.82 16.89 20.92 22.14 16.42 Southern Beaver	Central							_		
Sanpete 0.43 2.93 0.63 0.37 Tooele 2.15 1.83 2.31 0.25 1.73 4.39 1.94 1.12 Utah 2.58 2.74 2.17 2.62 2.39 5.65 4.66 3.73 Wasatch 5.58 3.20 3.67 9.09 7.45 7.11 14.17 9.70 REGIONAL TOTALS 11.17 9.14 10.87 13.82 16.89 20.92 22.14 16.42 Southern Beaver	Juab		0.46							
Tooele 2.15 1.83 2.31 0.25 1.73 4.39 1.94 1.12 Utah 2.58 2.74 2.17 2.62 2.39 5.65 4.66 3.73 Wasatch 5.58 3.20 3.67 9.09 7.45 7.11 14.17 9.70 REGIONAL TOTALS 11.17 9.14 10.87 13.82 16.89 20.92 22.14 16.42 Southern Beaver	Salt La ke	0.43	0.91	2.45	1.62					
Utah	Sanpete									
Wasatch 5.58 3.20 3.67 9.09 7.45 7.11 14.17 9.70 REGIONAL TOTALS 11.17 9.14 10.87 13.82 16.89 20.92 22.14 16.42 Southern Beaver Garfield 0.19 0.19 <	Tooele									
REGIONAL TOTALS 11.17 9.14 10.87 13.82 16.89 20.92 22.14 16.42	Utah									
Southern Beaver						7.45				
Beaver	REGIONAL TOTALS	11 <u>.1</u> 7	9.14	10.87	13.82	16.89	20.92	22.14	16.42	
Beaver	Southern	•								
Iron				- -						
Kane 0.46 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19<	Garfield									
Millard 0.27	Iron									
Piute	Kane		0.46			- -				
Sevier 0.43 0.46 0.14 0.12 1.94 0.56 Washington 0.95 0.25 0.19 Wayne 0.19 REGIONAL TOTALS 0.43 0.92 1.36 0.50 0.00 0.21 2.13 0.75 Northeastern Daggett 0.40 0.21 0.19 Duchesne 0.86 0.91 0.41 0.37 0.40 0.58 Uintah 1.63 0.12 0.27 0.21 0.75 REGIONAL TOTALS 0.86 0.91 2.04 0.50 1.06 0.42 0.58 0.56 Emery 0.63 Grand 0.63 San Juan <td>Millard</td> <td></td> <td></td> <td>0.27</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Millard			0.27						
Washington 0.95 0.25 0.19 Wayne 0.19 REGIONAL TOTALS 0.43 0.92 1.36 0.50 0.00 0.21 2.13 0.75 Northeastern Daggett 0.40 0.21 0.19 Duchesne 0.86 0.91 0.41 0.37 0.40 0.58 Uintah 1.63 0.12 0.27 0.21 0.75 REGIONAL TOTALS 0.86 0.91 2.04 0.50 1.06 0.42 0.58 0.93 Southeastern Carbon 0.14 0.27 0.21 0.58 0.56 Emery 0.63 Grand 0.63 REGIONAL TOTALS	Piute			- -			0.21			
Wayne 0.19 REGIONAL TOTALS 0.43 0.92 1.36 0.50 0.00 0.21 2.13 0.75 Northeastern Daggett 0.40 0.21 0.19 Duchesne 0.86 0.91 0.41 0.37 0.40 0.58 0.75 REGIONAL TOTALS 0.86 0.91 2.04 0.50 1.06 0.42 0.58 0.93 Southeastern Carbon 0.14 0.27 0.21 0.58 0.56 Emery 0.63 Grand 0.63 San Juan 0.13 REGIONAL TOTALS 0.00 0.00 0.00 0.14 0.00 0.40 1.46 0.58 0.56 0.56 Unknown counties 2.58 2.31 4.98 0.42 2.33 2.43 Mixed counties 1.72 2.04 0.00 0.19	Sevier	0.43	0.46	0.14						
Northeastern	Washington			0.95	0.25			0.19		
Northeastern Daggett 0.40 0.21 0.19 Duchesne 0.86 0.91 0.41 0.37 0.40 0.58 Uintah 1.63 0.12 0.27 0.21 0.75 REGIONAL TOTALS 0.86 0.91 2.04 0.50 1.06 0.42 0.58 0.93 Southeastern Carbon 0.14 0.27 0.21 0.58 0.56 Emery 0.63 Grand 0.63 San Juan 0.13 REGIONAL TOTALS 0.00 0.00 0.14 0.00 0.40 1.46 0.58 0.56 Unknown counties 2.58 2.31 4.98 0.42 2.33 2.43 Mixed counties 1.72 2.04 0.00 0.19	Wayne			_						
Daggett 0.40 0.21 0.19 Duchesne 0.86 0.91 0.41 0.37 0.40 0.58 Uintah 1.63 0.12 0.27 0.21 0.75 REGIONAL TOTALS 0.86 0.91 2.04 0.50 1.06 0.42 0.58 0.93 Southeastern Carbon 0.14 0.27 0.21 0.58 0.56 Emery 0.63 Grand 0.63 San Juan 0.13 REGIONAL TOTALS 0.00 0.00 0.14 0.00 0.40 1.46 0.58 0.56 Unknown counties 2.58 2.31 4.98 0.42 2.33 2.43 Mixed counties 1.72 2.04	REGIONAL TOTALS	0.43	0.92	1.36	0.50	0.00	0.21	2.13	0.75	<u>.</u>
Daggett 0.40 0.21 0.19 Duchesne 0.86 0.91 0.41 0.37 0.40 0.58 Uintah 1.63 0.12 0.27 0.21 0.75 REGIONAL TOTALS 0.86 0.91 2.04 0.50 1.06 0.42 0.58 0.93 Southeastern Carbon 0.14 0.27 0.21 0.58 0.56 Emery 0.63 Grand 0.63 San Juan 0.13 REGIONAL TOTALS 0.00 0.00 0.14 0.00 0.40 1.46 0.58 0.56 Unknown counties 2.58 2.31 4.98 0.42 2.33 2.43 Mixed counties 1.72 2.04	Northeastern									
Duchesne 0.86 0.91 0.41 0.37 0.40 0.58 Uintah 1.63 0.12 0.27 0.21 0.75 REGIONAL TOTALS 0.86 0.91 2.04 0.50 1.06 0.42 0.58 0.93 Southeastern Carbon 0.14 0.27 0.21 0.58 0.56 Emery 0.63 Grand 0.63 San Juan 0.13 REGIONAL TOTALS 0.00 0.00 0.14 0.00 0.40 1.46 0.58 0.56 Unknown counties 2.58 2.31 4.98 0.42 2.33 2.43 Mixed counties 1.72 2.04 0.00 0.19					- -	0.40	0.21		0.19	
REGIONAL TOTALS 0.86 0.91 2.04 0.50 1.06 0.42 0.58 0.93 Southeastern Carbon 0.14 0.27 0.21 0.58 0.56 Emery 0.63 Grand 0.63 San Juan 0.13 REGIONAL TOTALS 0.00 0.00 0.14 0.00 0.40 1.46 0.58 0.56 Unknown counties 2.58 2.31 4.98 0.42 2.33 2.43 Mixed counties 1.72 2.04 0.00 0.19		0.86	0.91	0.41	0.37	0.40		0.58		
Southeastern Carbon 0.14 0.27 0.21 0.58 0.56 Emery 0.63 Grand 0.63 San Juan 0.13 REGIONAL TOTALS 0.00 0.00 0.14 0.00 0.40 1.46 0.58 0.56 Unknown counties 2.58 2.31 4.98 0.42 2.33 2.43 Mixed counties 1.72 2.04 0.00 0.19	Uintah			1.63	0.12	0.27				
Carbon 0.14 0.27 0.21 0.58 0.56 Emery 0.63 Grand 0.63 San Juan 0.13 REGIONAL TOTALS 0.00 0.00 0.14 0.00 0.40 1.46 0.58 0.56 Unknown counties 2.58 2.31 4.98 0.42 2.33 2.43 Mixed counties 1.72 2.04 0.00 0.19	REGIONAL TOTALS	0.86	0.91	2.04	0.50	1.06	0.42	0.58	0.93	
Carbon 0.14 0.27 0.21 0.58 0.56 Emery 0.63 Grand 0.63 San Juan 0.13 REGIONAL TOTALS 0.00 0.00 0.14 0.00 0.40 1.46 0.58 0.56 Unknown counties 2.58 2.31 4.98 0.42 2.33 2.43 Mixed counties 1.72 2.04 0.00 0.19	Southeastern									
Emery 0.63 San Juan 0.13 0.13				N 14		0.27	0.21	0.58	0.56	
Grand 0.63 San Juan 0.13 0.13										
San Juan 0.13 REGIONAL TOTALS 0.00 0.00 0.14 0.00 0.40 1.46 0.58 0.56 Unknown counties 2.58 2.31 4.98 0.42 2.33 2.43 Mixed counties 1.72 2.04 0.00 0.19	•									
REGIONAL TOTALS 0.00 0.00 0.14 0.00 0.40 1.46 0.58 0.56 Unknown counties 2.58 2.31 4.98 0.42 2.33 2.43 Mixed counties 1.72 2.04 0.00 0.19										
Unknown counties 2.58 2.31 4.98 0.42 2.33 2.43 Mixed counties 1.72 2.04 0.00 0.19								0.58	0.56	
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STATE TOTALS 100 100 100 100 100 100 100	TITYER CORRETES									<u> </u>
SIMIE 101MES 100 100 100 100 100 100 100 100	CTATE TOTATE	100	100	100	100	100	100	100	100	
	STATE TOTALS	100	100	100	100	200	100		200	

^{*}Distribution of hunting pressure for 1967 and later based on hunter-days rather than number of hunters reporting.

Table 9. State-wide summary of Hungarian partridge harvest statistics, 1955-72.

	Total	Total	Hunter	Huns per	Huns per hunter
Year	hunters	harvest	days afield	hunter-day	
1955					0.39
19 56					0.89
1957		- -			0.45
1958					1.34
1959	1,846	1,820	3,354	0.54	0.99
1960	2,847	4,877	4,929	0.99	1.71
1961	3,205	3,648	6,645	0.54	1.13
1962	3,440	8,970	9,153	0.98	2.61
1963	4,676	13,343	13,291	1.00	2.85
1964	4,249	11,812	9,688	1.22	2.78
1965	4,498	12,183	11,798	1.03	2.71
1966	4,549	15,348	11,473	1.34	3.37
1967	6,321	16,049	15,105	1.06	2.54
1968	6,935	17,089	16,674	1.02	2.46
1969	5,591	11,966	15,515	0.77	2.14
1970	4,128	8,236	9,818	0.84	2.00
1971	4,276	9,407	11,011	0.85	2.20
1972	4,754	7 ,33 5	12,135	0.60	1.54

TOTALS (1955-72)	61,315	142,083	150,589	0.94	2.32	
AVERAGE (1959-71)	4,351	10,365	10,650	0.94	2.27	

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er 42 122 577 93 16 35 99 456 4 12 34 5 15 4 12 25	and County	Total	Total Hunters	Total Hours	Total Birds	Birds/ 100 hrs.	Total Complete Hunts	Total Hunters		Total Birds	Birds/ 100 hrs.	Birds/ Hunter
ke NO DATA COLLECTED NO TAPLICABLE TOTALS A NO TAPLICABLE NO TAPLICABLE NO TAPLICABLE NO TAPLICABLE NO TAPLICABLE NO TAPLICABLE NO TAPLICABLE NO TAPLICABLE NO TAPLICABLE NO TAPPLICABLE NO TAP	No-#1-0				 							
FET 44 122 34 35 15 45 12 34	Northern	6.7	100	, ,	ç	71	35	00	756	7.7	17	7.8
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Table 11. Hungarian partridge hunter success trend determined by field bag checks, 1967-72.

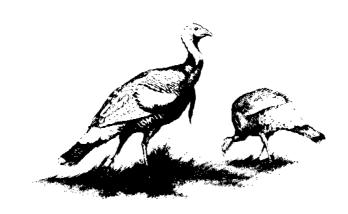
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WILD TURKEY

SUMMARY

Harvest data for 1971 and the spring of 1972 indicated that the breeding population level for 1972 was near average.

Severe drought throughout southern Utah from late December 1971 through mid-summer of 1972 apparently was extremely detrimental to production. Although brood data were insufficient to indicate population trend or production, subsequent harvest statistics in the fall of 1972 indicate the fall population to be at an extremely low level, probably due to poor reproductive success.



Brood_Counts

Annual random brood counts have been conducted each year since the introduction of turkeys into Utah in the early 1950's; however, success in finding broods has usually been poor. Sample sizes have generally been too low to meaningfully indicate relative density or production from year to year. During 1972, a total of 64 turkeys were observed during the brood survey period with a ratio of 392 young per 100 adults. Three distinct broods averaged 4.3 poults each. No data were available from 1971 for comparison. This information was too limited to suggest trend.

<u>Harvest</u>

Spring Gobbler Seasons

Results of the 1972 spring season are shown in Table 1 of this section. The trend of these data since the first season in 1967 is shown in Table 2. The 1972 spring season compared to 1971 and the average as follows:

		Percent change from
	<u> 1972</u>	1971 Average
Permits sold	285	+28 +33
Hunters afield	269	+25 +31
Turkeys harvested	35	+35 +75
Hunter-days afield	751	+30 +47
Percent hunter success	12	+ 9 0
Turkeys bagged per hunter-day	0.05	+25 0
Percent of hunters who observed turkeys	39	+ 3 - 2
Total turkeys reported observed	296	-15 + 1
Crippling loss (loss:100 bagged)	20	−56 −57

Total hunters and hunter-days afield in 1972 increased from both 1971 and the average. Percent hunter success and turkeys per day increased slightly from 1971 to the average since 1967. Paradoxically, fewer turkeys were observed by hunters in 1972 than were reported for 1971. Reported crippling loss was below both 1971 and the average. The trend of spring turkey harvest statistics is shown in Figure 1.

Fall Seasons

Results of the 1972 fall season are shown in Table 3. Harvest trends for each hunting unit are shown in Tables 4-8 and State-wide trends in Table 9. The 1972 season compared to 1971 and the average as follows:

		Percent o	hange from
	<u> 1972</u>	<u>1971</u>	<u>Average</u>
D	104	2.2	- 46
Permits sold	124	-33	
Hunters afield	118	-32	-44
Turkeys harvested	12	-80	-83
Hunter-days afield	303	-32	- 38
Percent hunter success	7	-67	-74
Turkeys bagged per hunter-day	0.04	-71	-71 <u>.</u>
Percent of hunters who observed turkeys	21	-25	-46
Total turkeys reported observed	173	-62	-81
Crippling loss (loss:100 bagged)	10	+25	-17

Hunting pressure, both hunters and hunter-days, declined from 1971 and the average. Hunter success and total harvest dropped to an all-time low. In view of relatively good spring hunter success the low success during the fall season apparently reflects extremely poor production. This was expected as a result of a widespread drought in southern Utah during the late winter and early spring of 1972.

Total turkeys observed and the percent of hunters observing turkeys were also extremely low.

The rate of reported crippling loss was slightly higher than in 1971 but well below average.

The trend of fall turkey harvest statistics is shown in Figure 2. It indicates that the fall population level for 1972 was probably as low as it has been for several years.

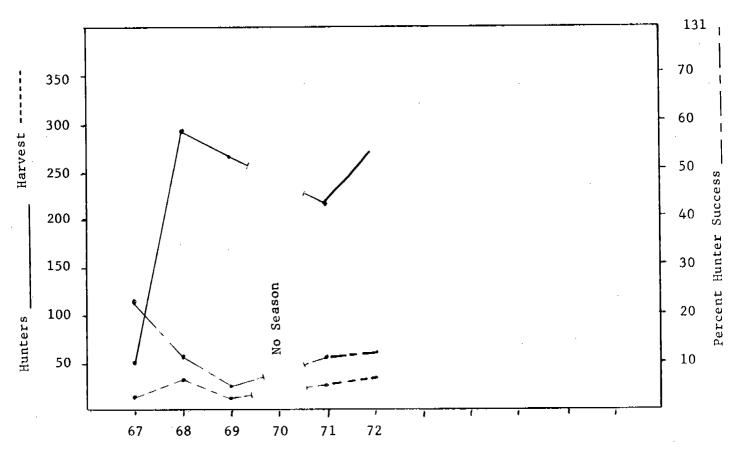


Figure 1. Wild turkey gobbler harvest trends for spring seasons.

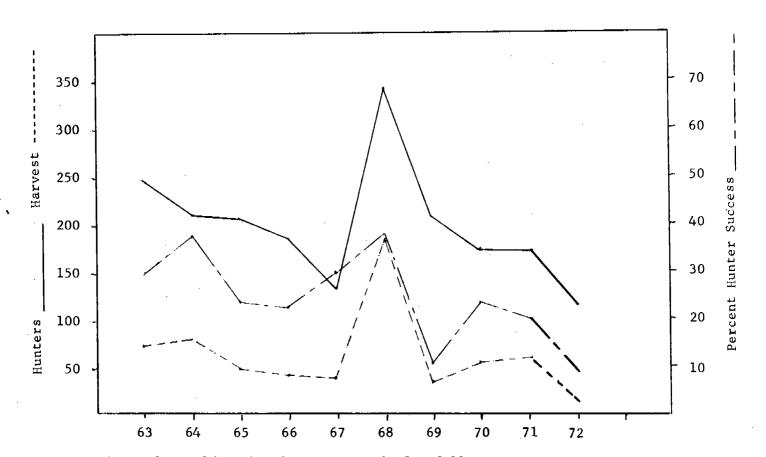


Figure 2. Wild turkey harvest trends for fall seasons.

Table 1. Summary of the 1972 spring turkey season.

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Hunter days	278	321	93	107	112	129	97	53	45	52	11	89	651	751
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Turkeys bagged per hunter day	0.06	!	0.03		0.03		0.04	 	0.02	2	0.05		0.05	
Reported crippling loss (loss/100 bagged)	24	;	33	;	33	}	0	1	200	1	0	1	20	1
Turkeys observed	169	1	13	ŀ	39	!	6		39	ł	27	1	296	1
Gobblers	61	1	œ	!	18	ł	5	1	9	}	11	1	109	1
Hens	92	1	2	}	17	ł	7	1	30	}	7	}	152	1
Unidentified	16	ļ	en	}	4	}	0	1	m	1	6	1	35	}
Number of hunters who saw turkeys	46	{	10	1	12	1	m	1	∞		11	;	90	1
Percent of hunters who saw turkeys	47	1	28	1	29	!	20	{	42	-	20	1	39	1

Projection factor 1.1538

*Based on number of hunters who bagged one or more turkeys, not total turkeys.

Summary of turkey harvest statistics for spring gobbler seasons, 1967-72. Table 2.

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Table 3. Summary of the 1972 fall turkey season.

							HIOG		TA CAT		MI VED III	TINITES	STATE TO	TOTALS
ል ተልጠ	PINE VI	PINE VALLEY Rep't Calc	Rep't (Calc	Rep't C	Calc	Rep't Ca	101	Rep't (a1c	1 19	. 1	Rep't	Calc
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NO Muntes Hunters afield	6	10.84	67	59	7	9	9	7.22	26	31.30	e	3.61	86	117,99
Hunter days	16		128	154.11	11 10	12.04	14	16.86	58	69.83	26 3	31,30	252	303.40
Turkeys bagged	0		œ	9.63	3 0	1	0	1	2	2.40	0	1	10	12.04
Percent success* (1 or more turkeys)	. 0	1	12.24	ŀ	0	1	0	1	3.84	1,	0	1	7.14	¦
No. hunters bagging two turkeys	0	1	7		0		0	1	н		0	1	က	¦
Percent bagging two turkeys	0	1	4.08		0	1	0	}	3.84	}	0	1	3.06	ł
Turkeys bagged per hunter day	0	1	90.		0	1	0	1	.017	1	0	1	.039	
Reported crippling loss (loss/100 bagged)	0	ļ	12.50	1	0	1,	0		0	!	0	ł	10	1
Turkeys observed	0	}	96	t I	11	1	0	1	63	1	m	1	173	1
Number of hunters who saw turkeys	0	1	11	1	7	1	0	1	7	-	н	1	21	;
Percent of hunters who saw turkeys	0	1	22.45		40	!	0	1	26.92	!	33.3	1	21.42	1

Projection factor 1.204 (124 + 103)

*Based on number of hunters who bagged one or more turkeys, not total turkeys.

Table 4. Summary of Boulder Mountain wild turkey harvest data for fall hunts from 1963 through 1972*.

Harvest Data	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Hunters afield	21	20	19	50	22	77	45	24	20	7
Hunter-days		45	44	132	71	195	103	77	46	17
Turkeys bagged	2	8	8	11	4	37	0	2	0	0
Percent success**	10	40	44	22	20	32	0	8	0	0
Percent bagging two turkeys						13	0	0	0	0
Birds bagged/day		0.18	0.18	0.08	0.06	0.19	0	0.03	0	0
Reported crippling loss (loss:100 bagged)	100	37	12	9	25	18		0	0	0
Turkeys observed		86	99	260	55	436	0	16	0	0
No. hunters who observed turkeys	8	14	9	22	8	27	0	2	0	0
Percent of hunters who observed turkeys	38	70	53	44	40	38	0	10	0	0

^{*}Data for 1963 were collected at hunter checking stations; for 1964 and later years via mailed questionnaires.

^{**}Season bag limits after 1968 were two turkeys. Percent success was based on successful hunters rather than total turkeys bagged.

Table 5. Summary of East Zion wild turkey harvest data for fall hunts from 1963 through 1972*.

Harvest Data	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Hunters afield	112	71	86	111	113	218	137	87	90	59
Hunter-days		127	170	266	334	569	374	203	229	154
Turkeys bagged	43	26	26	31	36	127	35	43	39	10
Percent success**	38	39	30	28	32	40	16	32	27	12
Percent bagging two turkey	s					19	10	16	16	4
Birds bagged/day		0.20	0.15	0.12	0.11	0.22	0.9	0.21	0.17	0.06
Reported crippling loss (loss:100 bagged)	5	15	8	6	15	15	19	5	6	12
Turkeys observed		270	403	476	693	1661	426	469	264	96
No. hunters who observed turkeys	54	14	32	43	51	122	30	30	23	11
Percent of hunters who observed turkeys	48	62	40	39	50	60	25	40	31	22

^{*}Data for 1963 were collected at hunter checking stations; for 1964 and later via mailed questionnaire.

^{**}Season bag limits after 1968 were two turkeys. Percent success was based on successful hunters rather than total turkeys bagged.

Table 6. Summary of LaSal Mountain wild turkey harvest data for fall hunts from 1963 through 1972*.

Harvest Data	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Hunters afield	115	120	102			45	17	18	13	31
Hunter-days		180	192			119	.51	30	27	70
Turkeys bagged	30	47	16	N	N O	19	1	3	5	2
Percent success**	26	37	15	S A	S S	43	. 7	11	18	4
Percent bagging two turkeys	- -			S E	S El	0	0	6	18	4
Birds bagged/day		0.26	0.08	Д	Q	0.16	0.02	0.10	0.18	0.02
Reported crippling loss (loss:100 bagged)	23	11	6	0 S E	O S E	11	۷ 0	0	0	0
Turkeys observed		802	228	C	C	214	40	15	25	63
No. hunters who observed turkeys	56	69	20			21	1	3	3	7
Percent of hunters who observed turkeys	54	58	21			50	7	20	27	27

^{*}Data for 1963 collected at hunter checking stations; for 1964 and later via mailed questionnaire.

^{**}Season bag limits after 1969 were two turkeys. Percent success was based on successful hunters rather than total turkeys bagged.

Table 7. Summary of Beaver Mountain wild turkey harvest data for the fall hunt, 1972.

Harvest Data	1970*	1971	1972
Hunters afield	30	13	6
Hunter-days	87	24	12
Turkeys bagged	. 7	5	0
Percent success	15	18	0
Percent bagging two turkeys	8	18	0
Birds bagged/day	0.08	0.20	0
Reported crippling loss(loss:100 bagged)	0	0	0
Turkeys observed	48	64	11
No. hunters who observed turkeys	8	5	2
Percent of hunters who observed turkeys	31	46	40

^{*}Wild turkeys were transplanted onto the Beaver Mountain during the winter of 1967-68. The first hunting season was held in 1970.

Table 8. Summary of Pine Valley Mountain wild turkey harvest data for the fall hunt, 1972.

Harvest Data	1970*	1971	1972
Hunters afield	6	32	11
Hunter-days	21	87	19
Turkeys bagged	3	11	0
Percent success	50	23	0
Percent bagging two turkeys	0	12	0
Birds bagged/day	0.14	0.13	0
Reported crippling loss(loss:100 bagged)	33	22	0
Turkeys observed	16	98	0
No. hunters who observed turkeys	4	9	0
Percent of hunters who observed turkeys	80	35	0

^{*}Wild turkeys were transplanted onto the Pine Valley Mountain during the winter of 1967-68. The first hunting season was held in 1970.

State-wide summary of wild turkey harvest data for fall hunts from 1963 through 1972* Table 9.

											Averages
Harvest Data	1963	1964	1965	1966** 1967	1967	1968**	1969	1970	1971	1972	(1963-71)
Permits sold	297	229	214	192	146	368	223	197	184	124	228
Hunters afield	248	211	207	187	135	344	210	174	174	118	210
Hunter-days	1	362	406	471	405	883	549	418	444	303	492
Turkeys bagged	7.5	81	50	43	40	183	36	58	09	12	70
Percent success***	30	38	24	23	30	38	11	24	21	1	27
Percent bagging two turkeys	1	;	1	!	1	15	9	10	13	ന	11
Birds bagged/day	1	0.22	0.12	0.09	0.10	0.21	90.0	0.14	0.14	0.04	0.14
Reported crippling loss (loss:100 bagged)	15	15	œ	7	16	15	19	9	œ	10	12
Turkeys observed	!	1158	730	756	748	2321	997	564	451	173	899
No. hunters who observed turkeys	118	127	61	89	59	171	31	47	40	21	80
Percent of hunters who observed turkeys	48	09	29	36	48	54	17	31	28	21	39

*Data for 1963 collected by hunter checking stations, for 1964 and later via mailed questionnaire.

This accounts for the difference between totals given above and combined tables of separate units in Tables 5, 6, and 7. **During 1966, 1968 and later years some hunters hunted more than one area or failed to designate areas hunted.

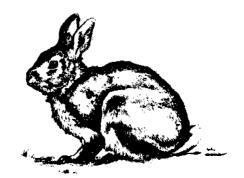
limit; in 1969 and later years all areas had a two-bird limit. Hunter success was based on the number of successful ***During 1968 the Boulder Mountain and East Zion units had two-bird season limits and the LaSal Mountain a one-bird hunters rather than total turkeys bagged.

COTTONTAIL RABBIT

SUMMARY

Harvest data for 1972 suggested a breeding population lower than in 1971. Roadside counts indicated a population in 1972 comparable to 1971; however, indicated production was lower than in 1971.

During the 1972 hunting season a marked reduction in total hunters, hunter-days, harvest and hunter-success was evident. This decline was attributed to a combination of reduced abundance and relatively severe winter weather during most of the hunting seasons.



Roadside Counts

Results of the annual roadside counts are shown in Table 1 of this section. The trend of cottontails observed per mile and young per 100 adults since 1967 is shown in Tables 2 and 3 respectively. Indexes for 1972 compared to 1971 and the average as follows:

		Percent	change from
	<u>1972</u>	1971	Average
Total cottontails counted	1,140	-4	-8
Total miles driven	2,643	- 2	0
Cottontails observed per mile	0.43	-2	+6
Young observed per 100 adults	99	-19	-7

Hunter success in 1971 suggests a breeding population for 1972 slightly below the average since 1967. Indicated density from roadside counts is similar to 1971, but slightly higher than average. Production was apparently lower than in 1971.

Harvest

Hunter Questionnaire

Results of the 1972 hunter questionnaire are found in Table 4. Trends of cotton-tails bagged per hunter-day, percent of harvest and percent of pressure (hunter-days) by county since 1967 are found in Tables 5-7. Monthly distribution of harvest and hunting pressure each year since 1967 is shown in Table 8. Trend of State-wide harvest statisites is found in Table 9 and Figure 2. The 1972 season compared to 1971 and the average as follows:

		<u>Percent</u>	change from
	<u>1972</u>	1971	<u>Average</u>
Cottontail hunters	22,835	- 26	-16
Cottontail harvest	155,102	-35	- 24
Hunter-days afield	105,941	-27	-4
Cottontails per hunter	6.79	-13	-11
Cottontails per hunter-day	1.46	-12	- 23

Total hunters, hunter-days afield, harvest and hunter success in 1972 declined from both 1971 and the average. This was probably a reflection of both poorer production in 1972 and relatively severe winter weather during most of the hunting season.

Field Bag Checks

Results of this survey for 1972 are shown in Table 10. Trend of hunter success as determined by bag checks are shown in Table 11. The 1972 season compared to 1971 and the average as follows:

		Percent	change from
	<u>1972</u>	1971	<u>Average</u>
Total hunters checked	266	-41	-49
Total hours hunted	870	-8	-38
Cottontails per hunter (complete hunts)	2.27	+89	+40
Cottontails bagged per 100 hours	58	+35	+16
Hours per hunter-day (complete hunts)	3.4	+36	+6
Hours per cottontail bagged	1.7	-26	-23

Results of this survey suggest increased hunter success; however, most of these data were compiled in the northeastern and southeastern regions, where success is generally higher, and are not comparable on a statewide basis.

The average hunter contacted spent more time afield per day than in 1971 with less time required to bag a cottontail.

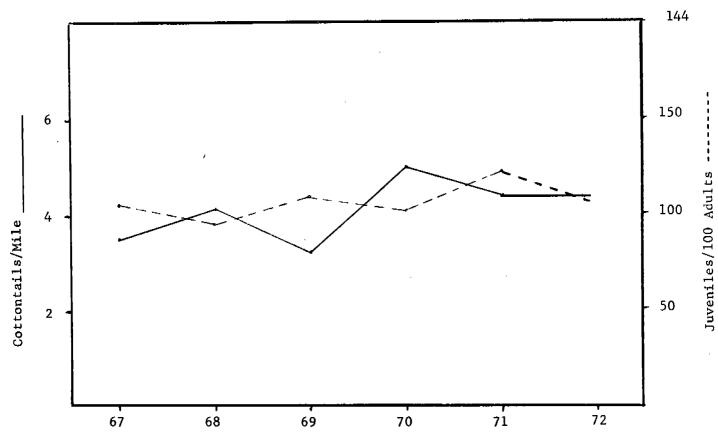


Figure 1. Cottontail Rabbit Population Indexes Trend.

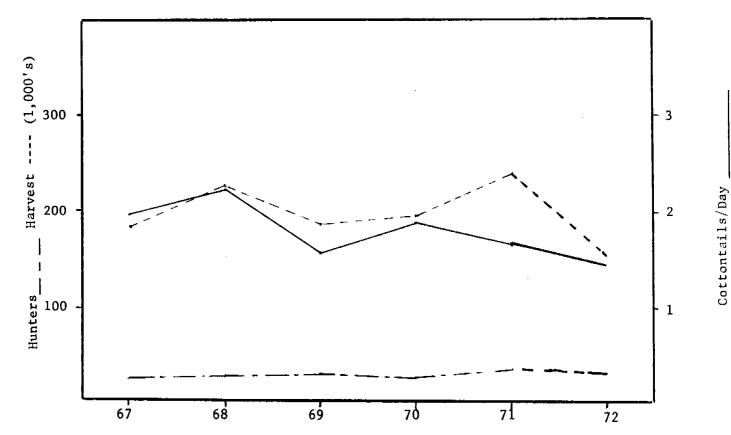


Figure 2. Cottontail Rabbit Harvest Trend.

Table 1. Cottontail rabbit summer inventory summary, 1972.

County			1000 C14000))			
Country	Driven	Adults		Unclass.	Total	100 adults	Mile
Northern					,	;	c
Box Elder	270	. 42	26	33	101	62	0.57
Cache	09	٣	0	r-l	4	o	/0.0
Davis	1	•	;	!	;	!	• •
Morgan	;	•	;	1	1	1 (· -
Rich	06	'n	5	0	10	100	0.11
Summit	06	7	-	7	12	14	0.13
Meher	: :	:	;	:	1		;
REGIONAL TOTALS	510	57	32	38	127	56	0.25
1 2 2 2 2							
Inah	66	9	_	-	14	117	0.14
		•	• •	;	;	:	1
Sair Lake	; 6	25	37	er:	65	148	0.72
Josefe	2 8	j æ	;	, ,	13	100	0.14
TOOLE	2	>	· ;	' ;	;	;	:
Ucan	! ! ! !	; ;	•	;	:	;	1
Wasarcn	010	2.5	0	ď	9.5	135	0,33
REGIONAL TOTALS	6/2	3/	200		7,5		
Southern		;	;	•	c r	[7	0 36
Beaver	102	23	† 7	o	<u>`</u>		٠,
Garfield	150	22	19	רי) ו	44	000	0.23
Iron	09	15	15	Ŋ	35	100	0,0
Kane	90	29	25	0	54	9 00	0.00
Millard	90	7	19	0	26	1/7	67.0
Piute	09	0	0	0	0 ;	j (170
Sevier	123	œ	36	7	51	450	14.0
Washington	174	116	13	72	201	((1.10 0.10
Wayne	90	4	2	0	9	50	0.07
REGIONAL TOTALS	939	224	143	87	454	64	0.40
Northeastern							6
Daggett	120	29	35	24	88	121	0./3
Duchesne	144	18	14	m	35	18	0.24
Uintah	96	37	52	4	93	141	0.97
REGIONAL TOTALS	360	84	101	31	216	120	09.0
Southeastern							
Carbon	135	11	16	0	27	145	0.20
Emero	09	80	10	0	18	125	
Grand	180	30	86	0	119	297	14 99:0
San Juan	180	38	42	7	87	111	- 1
REGIONAL TOTALS	555	87	157	7	251	180	0.45
STATE TOTALS	٤79 6	687	483	168	1,140	66	0.43

Table 2. Summary of cottontail rabbits observed per mile during summer inventory, 1907 72.

Region and	1967	1968	1969	1970	1971	1972	
Northern Region	•	6	6	7	67	23	
Box Elder	0.36	0./8	0.00	0/.0	5.45		
Cache	0	0.02	0.01		0.00	70.0	
Davis	!	;	1		!	•	
Morgan	0.02	0.17	0.10		0.28	•	
Rich	0.26	0.50	0.52		0.22	0.11	
Summit	0.16	0.22	0.08	0.39	;	0.13	
Weber	1	;	0.16		-		
Regional Totals	0.19	0.44	0.23	0.59	0.31	0.25	
Ιρα							
	0.26	0.42	0.51	0.72	0.33	0.14	
3014 1050	3 5	· c			. !	•	
Sair Lake	3.0	76	,	, 62 0	77 0	0.72	
Sanpe Le	0.50	20.0		200	, ;	0 14	
Tooele	0.0	40.0	07.0	07.0	77.0		
Utah	;	!	!	!	!		
Wasatch		:			1	ш	
Regional Totals	0.15	0.29	0.32	0.54	0.46	0,33	
Southern Repfon	ı						
	0	0.23	0.36	;	0.18	0.36	
Corfield	0.15	0.25	0.48	0.48	0.33	0.29	
	0.09	79.0	0.40	;	0.38	0.58	
TION	0.67	:	:	0.71	0.17	09.0	
Malle W411ard	0.22	0.30	0.39	0.28	0.15	0.29	
D4::+0	0.01	0.09	0	0	0	0	
Confor	0.18	0.13	0.47	0.58	97.0	0.41	
Usekington	0.80	0.55	0,61	0.17	97.0	1.16	
Hashington	0.08	0.10	0.12	ł	0.08	0.07	
Regional Totals	0.27	0.32	0.35	0.35	0.25	0.48	
Worth Contour Booton							
Not dicastern argren	1 93	0.81	09.0	0.77	0.76	0.73	
Dichespe	1 40	0.77	0.68	0.56	0.58	0.24	
III ntah	1.00	0.98	0.84	1.56	1,39	0.97	
Regional Totals	1.30	0.82	0.68	0.93	0.89	0.60	
1 4	,						
Southerstern megron	0.05	0 64	0.13	0.13	0.24	0.20	
H CAL DOLL	3.6	33.0	0 17	0.20	0.04	0.30	1
Emer y	76.0	7		0 14	0.53	0.66	.46
Grand	ָבָי מַנ מיר	0.10	0.50	30	0.97	0.48	;
San Juan		1 5	1	25	0 53	0.45	
Regional locals	0.39	24.0	•	23:5	,,,,		
STATE TOTALS	0.35	0.41	0.32	0.50	0.44	0.43	

Summary of cottontail rabbits young per 100 adults ratios, 1967-72. Table 3.

																																	14	7			
1972	62	0	1 1	1	100	14	1	56	117	, T T	14.8	100	;	;	135	19	¥ 98	100	98	271	i I	450	11	50	79		121	78	141	120		145	125	297	111	180	66
1971	129	0	;	5 2	စ္ထ	:	:	100	171	7 / 7	17.7	1001	;	:	145	1,4	7 2	162	20	32	; ;	390	71	167	93		81	150	191	139	ļ	53	$\frac{100}{100}$	79	215	132	123
1970	95	: :	:	;	40 ;	64		76	37.6	047	: :	100	!	;	157		103	3 :	28	41	! ;	350	22	1	89		57	131	203	126		100	183	160	228	115	102
1969	76	, o	;	900	186	33	75	115	c	67	> ,	311	;	;	224	72	1 00 00 00	33	נ ה	22	:	360	114	300	85		34	148	154	77		122	200	1 7	166	161	110
1968	106	3 ;	1	100	98	26	;	97		/07	: 3	133	:	1	179	26	0 8	0 7 7	נ נ	143	} =	22	71	2 05	75		62	146	117	107		55	238	7		92	96
1967	70	ţ ;	;	;	125	L 9	1	104	-L †	1/2	: ;	25 / 200	:	;	218		: 8	9 6	120	33	י ל י	157	7.5	100	115		26	142	231	118		150	73	106	45	62	106
Region and County	Northern Region	Cache	Davis	Morgan	Rich	Summit	Weber	Regional Totals	Central Region	Juah	Salt Lake	Sanpete	11424	Ucali	Regional Totals	Southern Region	Beaver	Garfield	Iron	Kane	Millard	Fine	Sevier	Washington	Regional Totals	Northeastern Region	Daggett	Duchesne	Uintah	Regional Totals	Southeastern Region	Carbon	Emery	Grand	San Juan	Regional Totals	STATE TOTALS

Table 4. Summary of cottontail rabbit hunter success and distribution of harvest and hunting pressure by region and county, 1972.

Region and	Hunters	Days		Cottontails/	Cottontails	% of	% of
County	Reporting	Hunted	Bagged	Hunter-day	per Hunter*	TESSUIE	HELVES
Northern					, 7,	14.54	14.43
Box Elder	20 9	601	887	1.48	4.74		1.73
Cache	21	72	123	1.71	7.00	2.02	0.96
Davis	14	40	23	0.57	3.79	0.38	
Morgan	21	129	33	0.26	4.33	0.54	3.10
Rich	20	37	147	3.97	0.00	2.41	0.89
Summit	28	129	153	1.19	6.17	2.51	3.10
Weber	22	79	22	0.28	4.12	0.36	1.90
Regional Totals	335	1087	1388	1.28	4.43	22.75	26.10
Central							
Juab	70	197	224	1.14	10.60	3.67	4.73
Salt Lake	30	93	115	1.24	7.04	1.89	2.23
Sanpete	33	187	250	1.34	11.25	4.10	4.49
Tooele	123	319	400	1.25	6.45	6.56	7.66
Utah	120	362	397	1.10	5.25	6.51	8.69
Wasatch	21	119	150	1.26	11.22	2.46	2.86
Regional Totals	397	1277	1536	1.20	6.68	25.18	30.67
Southern							
Beaver	6	18	19	1.06	3.00	0.31	0.43
Garfield	7	11	16	1.45	1.33	0.26	0.26
	16	80	105	1.31	6.71	1.72	1.92
Iron Kane	4	8	13	1.62	4.33	0.21	0.19
Millard	60	174	326	1.87	5.06	5.34	4.18
	2	4	3	0.75	3.00	0.05	0.10
Piute	19	61	114	1.87	3.43	1.87	1.46
Sevier			302	2.29	26.17	4.95	3.17
Washington	20	121	302 28	2.15	7.33	0.46	0.31
Wayne	8 142	13 501	926	1.85	10.34	15.18	12.03
Regional Totals	142	201	920	1.00	10.54	13.10	12.03
Northeastern	20	54	158	2.93	8.00	2.59	1.30
Daggett	20		600	2.93	8.67	9.84	4.95
Duchesne	58 57	206		2.91 1.47	8.97	7.03	7.01
Uintah	57	292	429		8.88	19.46	13.26
Regional Totals	135	552	1187	2.15_	0,00	13.40	13.20
Southeastern			554		0.77	/ OF	(20
Carbon	38	258	296	1.15	8.77	4.85	6.20
Emery	20	86	128	1.49	7.00	2.10	2.07
Grand	17	43	101	2.35	15.38	1.66	1.03
San Juan	28	186	397	2.13	14.91	6.51	4,47
Regional Totals	103	573	922	1.61	11.58	15.11	13.76
Unknown counties	3 5	167	127	0.76		2.08	4.01
STATE TOTALS	1147	4157	6086	1.46	6.75	100	100

^{*}Based on county of residence.

Table 5. Summary of cottontail rabbits bagged per hunter-day by region and county, 1967-72.

Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern Northern	Northern Sox Elder 1.81 3.54 2.29 2.62 2.28 1.48	
Sorthern Dox Elder 1.81 3.54 2.29 2.62 2.28 1.48	Sorthern Sox Elder 1.81 3.54 2.29 2.62 2.28 1.48	
Sox Elder	Box Elder	
Sox Elder	Sor Elder 1.01 3.74 2.00 2.02 1.71	
Davis 0.78 0.27 1.10 0.56 0.60 0.57 Davis 0.78 0.27 1.10 0.56 0.60 0.57 Morgan 1.01 1.02 1.21 1.80 2.06 0.26 Rich 0.07 3.11 2.65 2.66 1.91 3.97 Summit 1.70 1.78 1.40 1.93 1.24 1.19 Weber 1.03 1.16 0.94 1.02 0.36 0.28 Weber 1.03 1.16 0.94 1.02 0.36 0.28 Weigional Totals 1.49 2.81 2.02 2.41 1.90 1.28 Pentral Juab 1.89 2.58 1.74 2.38 1.75 1.14 Salt Lake 1.33 1.40 0.83 0.94 0.92 1.24 Sanpete 0.80 1.93 1.86 1.72 1.23 1.34 Tocele 1.59 1.62 1.27 1.50 1.60 1.25 Utah 1.19 1.55 1.24 1.11 1.32 1.10 Wessetch 1.21 1.39 0.59 1.80 0.95 1.26 Segional Totals 1.34 1.73 1.30 1.47 1.41 1.20 Southern Feaver 2.04 2.06 1.84 1.41 1.15 1.06 Cerfield 2.83 2.26 0.96 0.62 2.40 1.45 Iron 1.18 2.82 1.57 0.99 1.74 1.31 Kane 4.04 3.30 0.00 0.75 0.20 1.62 Millard 2.25 2.69 1.34 2.43 2.26 1.87 Plute 4.45 1.33 1.43 1.00 0.46 0.75 Sevier 0.65 2.54 1.09 0.68 0.93 1.87 Washington 0.83 8.00 1.11 1.54 1.55 2.29 Wayne 1.50 4.00 0.79 1.23 1.55 2.29 Wayne 1.50 4.00 0.79 1.23 1.55 2.29 Wayne 1.50 4.00 0.79 1.23 1.55 2.29 Wayne 1.50 4.00 0.79 1.23 1.55 2.29 Wayne 1.50 4.00 0.79 1.23 1.55 2.29 Wayne 1.50 4.00 0.79 1.23 1.55 2.29 Wayne 1.50 4.00 0.79 1.23 1.55 2.29 Wayne 1.50 4.00 0.79 1.23 1.55 2.29 Wayne 1.50 4.00 0.79 1.23 1.55 2.29 Wayne 1.50 4.00 0.79 1.23 1.55 2.29 Wayne 1.50 4.00 0.79 1.23 1.55 2.29 Wayne 1.50 4.00 0.79 1.23 1.55 2.29 Wayne 1.50 4.00 0.79 1.23 1.55 2.29 Wayne 1.50 4.00 0.79 1.23 1.51 1.45 1.85 Boutheastern Carbon 1.70 1.47 1.62 1.27 0.63 1.15 Emery 1.98 2.58 1.68 2.22 1.06 1.49 Grand 0.74 1.28 1.26 2.26 1.71 2.35 Sau Juan 3.35 2.20 1.39 2.04 2.73 2.13 Regional Totals 2.17 1.83 1.52 1.85 1.25 1.61	Davis 0.78 0.27 1.10 0.56 0.60 0.57 Morgan 1.01 1.02 1.21 1.80 2.06 0.26 Rich 0.07 3.11 2.65 2.62 1.91 3.97 Summit 1.70 1.78 1.40 1.93 1.24 1.19 Weber 1.03 1.16 0.94 1.02 0.36 0.28 Regional Totals 1.49 2.81 2.02 2.41 1.90 1.28 Regional Totals 1.49 2.81 2.02 2.41 1.90 1.28 Regional Totals 1.59 1.62 1.27 0.63 1.75 Regional Totals 1.19 1.55 1.24 1.11 1.32 1.10 Wasatch 1.21 1.39 0.59 1.80 0.95 1.26 Regional Totals 1.34 1.73 1.30 1.47 1.41 1.20 Regional Totals 1.34 1.73 1.30 1.47 1.41 1.51 Regional Totals 1.38 2.26 0.96 0.62 2.40 1.45 Iron 1.18 2.82 1.57 0.99 1.74 1.31 Kane 4.04 3.30 0.00 0.75 0.20 1.62 Millard 2.25 2.69 1.34 2.43 2.26 1.87 Pitte 4.45 1.33 1.43 1.00 0.46 0.75 Sevier 0.65 2.54 1.09 0.68 0.93 1.87 Washington 0.83 8.00 1.11 1.54 1.55 2.29 Wayne 1.50 4.00 0.79 1.39 1.58 Northeastern Daggett 3.87 4.08 2.08 2.67 2.73 2.93 Duchesne 3.31 2.40 1.47 2.45 3.14 2.91 Uintah 3.53 3.69 1.95 2.30 1.80 1.47 Regional Totals 3.49 3.39 1.86 2.38 2.30 2.15	
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Duchesne 3.31 2.40 1.47 2.45 3.14 2.91 Uintah 3.53 3.69 1.95 2.30 1.80 1.47 Regional Totals 3.49 3.39 1.86 2.38 2.30 2.15 Southeastern Carbon 1.70 1.47 1.62 1.27 0.63 1.15 Emery 1.98 2.58 1.68 2.22 1.06 1.49 Grand 0.74 1.28 1.26 2.26 1.71 2.35 San Juan 3.35 2.20 1.39 2.04 2.73 2.13 Regional Totals 2.17 1.83 1.52 1.85 1.25 1.61 Unknown counties 0.38 1.03 0.53 1.79 1.13 0.76	Duchesne 3.31 2.40 1.47 2.45 3.14 2.91 Uintah 3.53 3.69 1.95 2.30 1.80 1.47 Regional Totals 3.49 3.39 1.86 2.38 2.30 2.15 Southeastern Carbon 1.70 1.47 1.62 1.27 0.63 1.15 Emery 1.98 2.58 1.68 2.22 1.06 1.49	
Regional Totals 3.49 3.39 1.86 2.38 2.30 2.15 Southeastern Carbon 1.70 1.47 1.62 1.27 0.63 1.15 Emery 1.98 2.58 1.68 2.22 1.06 1.49 Grand 0.74 1.28 1.26 2.26 1.71 2.35 San Juan 3.35 2.20 1.39 2.04 2.73 2.13 Regional Totals 2.17 1.83 1.52 1.85 1.25 1.61 Unknown counties 0.38 1.03 0.53 1.79 1.13 0.76	Regional Totals 3.49 3.39 1.86 2.38 2.30 2.15 Southeastern Carbon 1.70 1.47 1.62 1.27 0.63 1.15 Emery 1.98 2.58 1.68 2.22 1.06 1.49	
Regional Totals 3.49 3.39 1.86 2.38 2.30 2.15 Southeastern Carbon 1.70 1.47 1.62 1.27 0.63 1.15 Emery 1.98 2.58 1.68 2.22 1.06 1.49 Grand 0.74 1.28 1.26 2.26 1.71 2.35 San Juan 3.35 2.20 1.39 2.04 2.73 2.13 Regional Totals 2.17 1.83 1.52 1.85 1.25 1.61 Unknown counties 0.38 1.03 0.53 1.79 1.13 0.76	Regional Totals 3.49 3.39 1.86 2.38 2.30 2.15 Southeastern Carbon 1.70 1.47 1.62 1.27 0.63 1.15 Emery 1.98 2.58 1.68 2.22 1.06 1.49	
Carbon 1.70 1.47 1.62 1.27 0.63 1.15 Emery 1.98 2.58 1.68 2.22 1.06 1.49 Grand 0.74 1.28 1.26 2.26 1.71 2.35 San Juan 3.35 2.20 1.39 2.04 2.73 2.13 Regional Totals 2.17 1.83 1.52 1.85 1.25 1.61 Unknown counties 0.38 1.03 0.53 1.79 1.13 0.76	Carbon 1.70 1.47 1.62 1.27 0.63 1.15 Emery 1.98 2.58 1.68 2.22 1.06 1.49	<u> </u>
Carbon 1.70 1.47 1.62 1.27 0.63 1.15 Emery 1.98 2.58 1.68 2.22 1.06 1.49 Grand 0.74 1.28 1.26 2.26 1.71 2.35 San Juan 3.35 2.20 1.39 2.04 2.73 2.13 Regional Totals 2.17 1.83 1.52 1.85 1.25 1.61 Unknown counties 0.38 1.03 0.53 1.79 1.13 0.76	Carbon 1.70 1.47 1.62 1.27 0.63 1.15 Emery 1.98 2.58 1.68 2.22 1.06 1.49	
Emery 1.98 2.58 1.68 2.22 1.06 1.49 Grand 0.74 1.28 1.26 2.26 1.71 2.35 San Juan 3.35 2.20 1.39 2.04 2.73 2.13 Regional Totals 2.17 1.83 1.52 1.85 1.25 1.61 Unknown counties 0.38 1.03 0.53 1.79 1.13 0.76	Emery 1.98 2.58 1.68 2.22 1.06 1.49	
Grand 0.74 1.28 1.26 2.26 1.71 2.35 San Juan 3.35 2.20 1.39 2.04 2.73 2.13 Regional Totals 2.17 1.83 1.52 1.85 1.25 1.61 Unknown counties 0.38 1.03 0.53 1.79 1.13 0.76	Hinery 2005	
San Juan 3.35 2.20 1.39 2.04 2.73 2.13 Regional Totals 2.17 1.83 1.52 1.85 1.25 1.61 Unknown counties 0.38 1.03 0.53 1.79 1.13 0.76	Chand (174 198 196 996 171 /-11	
Regional Totals 2.17 1.83 1.52 1.85 1.25 1.61 Unknown counties 0.38 1.03 0.53 1.79 1.13 0.76	Grand Tito I.20 Line	
Unknown counties 0.38 1.03 0.53 1.79 1.13 0.76	Deni o dani	
	Regional Totals 4.1(1.03 1.52 1.0) 1.23 1.01	
	Unknown counties 0.38 1.03 0.53 1.79 1.13 0.76	
STATE TOTALS 1.95 2.42 1.54 1.86 1.65 1.46	STATE TOTALS 1.95 2.42 1.54 1.86 1.65 1.46	

Table 6. Distribution of cottontail rabbit harvest by region and county, 1967-72.

egion and county orthern Box Elder	1967	1968	1969	1970	1971	1972	
	·					<u></u>	<u> </u>
			÷				
	9.80	31.46	28.69	32.46	19.42	14.54	
Cache	0.86	1.79	1.75	0.85	1.33	2.02	
	0.36	0.29	0.55	0.27	0.63	0.38	
Davis	1.23	1.11	0.63	1.12	1.81	0.54	
Morgan	0.67	1.44	1.89	2.05	1.65	2.41	
Rich	2.36	2.33	2.59	2.10	2.29	2.51	
Summit	0.53	1.07	1.45	0.60	0.21		
Weber	15.81	39.49	37.58	39.48	27.35	0.36 22.75	
Regional Totals	<u> </u>	37 • 72					
<u> </u>		_ •	0.0	6 kg			
Juab	4.31	5.24	8.83	6.43	4.27	3.67	
Salt Lake	2.12	1.15	1.11	1.58	0.83	1.89	
Sanpete	1.16	1.10	2.78	1.32	2.09	4.10	•
Tooele	5.06	5 • 5 5	10.82	9.90	8.83	6.56	
Utah	6.91	5•95	8.02	7.04	6.26	6.51	
Wasatch	3.59	2.01	1.49	1.57	1.65	2,46	
Regional Totals	23.17	21.00	33.08	27.88	23.93	25.18	
<u>Bouthern</u>	2.89	0.49	1.26	1.47	0.68	0.31	
Beaver	0.58	2.07	0.87	0.34	0.14	0.26	
Garfield		1.46	1.45	1.34	2.62	1.72	
Iron	1.11	0.87	0.00	0.04	0.15	0.21	
Kane	1.66		4.11	3.74	4.85	5.34	•
Millard	1.97	3.96	0.25	0.08	0.22	0.05	
Plute	0.84	0.16		0.60	1.55	1.87	
Se vier	0.44	1.62	1.01	2.74	2.41	4.95	
Washington	0.17	0.11	2.86	•			
Wayne	0.15	0.21	0.41	1.12	0.59	0.46	
Regional Totals	9.82	10.95	12.45	11.51	13.21	15.18	
Northeastern							
Daggett	5.63	6.33	2.50	0.57	1.84	2.59	
Duchesne	12.29	4.41	2.17	4.69	10.20	9.84	
Uintah	14.49	9.30	6.64	5.63	10.79	7.03 19.46	·
Regional Totals	32.41	20.04	11.31	10.89	22,82	19.46	
Southeastern							
Carbon	4.26	2.48	1.86	2.38	2.47	4.85	
Emery	6.93	2.70	1.30	3.01	2.33	2.10	
Emery Grand	0.34	1.03	0.61	2.13	1.60	1.66	
	7.05	1.48_	0.99	2.33	4.61	6.51	
San Juan	18.58	7.69	4.77	9.86	11.01	15.11	
Regional Totals	10.20	1.09	7.11	9.00	11.01	4.7.44	<u> </u>
Unknown counties	0.20	0.79	0.96	0.35	1.56	2.08	
STATE TOTALS	100.00	100.00	100.00	100.00	100.00	100.00	

Table 7. Distribution of cottontail rabbit hunting pressure by region and county, 1967-72:

1907-72.							
egion and county	1967	1968	1969	1970	1971	1972	
Coming							•
orthern			- 1	22.00	14.03	14.43	
Box Elder	10.57	21.53	19.24	23.09 0.80	1.09	1.73	
Cache	1.23	1.44	1.44		1.73	0.96	
Davis	0.90	1.89	0.77	0.90	1.45	3.10	
Morgan	2.37	2.63	0.81	1.17	1.43	0.89	
Rich	1.87	1.12	1.10	1.46	3.05	3.10	n
Summit	2.70	3 . 18 ^	2.85	2.02		1.90	
Weber	1.00 _	2,25	2.37	1.09	0.94	26.10	
egional Totals	20.65	34.04	28.61	30.56	23.72	20.10	
<u>entral</u>		l. 63	7 70	5.04	4.03	4.73	
Juab	4.44	4.91	7.79			2.23	
Salt Lake	3.10	1.99	2.06	3.14 1.44	1.49 2.80	4.49	
Sanpete	2.84	1.38	2.29			7.66	•
Tooale	6.20	8.28	13.06	12.29	9.09	7.66 8.69	
Utah	11.34	9.30	9.96	11.89	7.81		
Wasatch	5 <u>-77</u>	3.50	3.89	1.62	2.88	2.86	
Regional Totals	33.69	29.36	39.09	35 .44	28.09	30.67	
Southern	0 777	0.58	1.06	1.94	0.98	0.43	
Beaver	2.77	2.21	1.40	1.04	0.09	0.26	
Garfield	0.40		1.42	2.53	2.48	1.92	,
Iron	1.83	1.25	0.23	0.10	1.22	0.19	
Kane	0.80	0.64		2.88	3.54	4.18	•
Millard	1.70	3.56	4.71	0.16	0.77	0.10	
Piute	0.37	0.29	0.27		2.75	1.46	
Sevier	1.33	1.54	1.42	1.65	2.75	3.17	
Washington	0.40	0.03	3.95	3 · 33		0.31	
Wayne	0.20	0.13	0.81	1.52	0.62	12.03	
Regional Totals	9.81	10.23	15.30	15.17	15.01	12.03	
Northeastern							
Daggett	2.84	3•75	1.85	0.40	1.11	1.30	
Duchesne	7.24	4.46	2.27	3 - 57	5.36	4.95	
Uintah	8.01	6.10	5.25	4.56_	9.88	7.01	
Regional Totals	18.08	14.31	9.37	8.53	16.35	13.26	<u></u>
							•
<u>Southeastern</u>). O=), OZ	1.77	3.49	6.53	6.20	
Carbon	4.87	4.07			3.63	2.07	
Emery	6.84	2.53	1.19	2.53	1.54	1.03	
Grand	0.90	1.96	0.75			4.47	
San Juan	4.10	1.64	1.10	2.13	2.78		
Regional Totals	16.71	10.20	4.82	9.92	14.48	13.76	
Unknown counties	1.07	1.86	2.77	0.37	2.28	4.01	
STATE TOTALS	100.00	100.00	100.00	100.00	100.00	100.00	

Table 8. Summary of the monthly distribution of cottontail harvest and hunting pressure each year from 1968 through 1972.

	Percen	t of H	arvest		Perc	ent of				
	1969				1968	1969	1970	1971	1972	
6.3	7.8	7.6	7.1	7.8	6.5	7.0	8.1	7.0	8.1	
12.0	11.5	11.3	12.8	21.3	14.1	12.2	12.4	14.4	16.7	
22.6	24.6	21.2	22.7	22.5	21.4	23.3	21.8	21.1	23.0	
28.6	24.2	25.7	26.2	23.4	25.0	24.1	22.7	23.4	20.4	
20.0	19.9	21.2	19.4	15.9	20.9	20.0	20.0	19.1	18.4	
9.2	9.6	10.4	8.7	7.5	11.7	10.8	11.5	10.8	10.0	
1.2	2.4	2.6	3.1	1.5	1.2	2.6	3.4	4.2	3.4	
	1968 6.3 12.0 22.6 28.6 20.0 9.2	1968 1969 6.3 7.8 12.0 11.5 22.6 24.6 28.6 24.2 20.0 19.9 9.2 9.6	1968 1969 1970 6.3 7.8 7.6 12.0 11.5 11.3 22.6 24.6 21.2 28.6 24.2 25.7 20.0 19.9 21.2 9.2 9.6 10.4	1968 1969 1970 1971 6.3 7.8 7.6 7.1 12.0 11.5 11.3 12.8 22.6 24.6 21.2 22.7 28.6 24.2 25.7 26.2 20.0 19.9 21.2 19.4 9.2 9.6 10.4 8.7	6.3 7.8 7.6 7.1 7.8 12.0 11.5 11.3 12.8 21.3 22.6 24.6 21.2 22.7 22.5 28.6 24.2 25.7 26.2 23.4 20.0 19.9 21.2 19.4 15.9 9.2 9.6 10.4 8.7 7.5	1968 1969 1970 1971 1972 1968 6.3 7.8 7.6 7.1 7.8 6.5 12.0 11.5 11.3 12.8 21.3 14.1 22.6 24.6 21.2 22.7 22.5 21.4 28.6 24.2 25.7 26.2 23.4 25.0 20.0 19.9 21.2 19.4 15.9 20.9 9.2 9.6 10.4 8.7 7.5 11.7	1968 1969 1970 1971 1972 1968 1969 6.3 7.8 7.6 7.1 7.8 6.5 7.0 12.0 11.5 11.3 12.8 21.3 14.1 12.2 22.6 24.6 21.2 22.7 22.5 21.4 23.3 28.6 24.2 25.7 26.2 23.4 25.0 24.1 20.0 19.9 21.2 19.4 15.9 20.9 20.0 9.2 9.6 10.4 8.7 7.5 11.7 10.8	1968 1969 1970 1971 1972 1968 1969 1970 6.3 7.8 7.6 7.1 7.8 6.5 7.0 8.1 12.0 11.5 11.3 12.8 21.3 14.1 12.2 12.4 22.6 24.6 21.2 22.7 22.5 21.4 23.3 21.8 28.6 24.2 25.7 26.2 23.4 25.0 24.1 22.7 20.0 19.9 21.2 19.4 15.9 20.9 20.0 20.0 9.2 9.6 10.4 8.7 7.5 11.7 10.8 11.5	1968 1969 1970 1971 1972 1968 1969 1970 1971 6.3 7.8 7.6 7.1 7.8 6.5 7.0 8.1 7.0 12.0 11.5 11.3 12.8 21.3 14.1 12.2 12.4 14.4 22.6 24.6 21.2 22.7 22.5 21.4 23.3 21.8 21.1 28.6 24.2 25.7 26.2 23.4 25.0 24.1 22.7 23.4 20.0 19.9 21.2 19.4 15.9 20.9 20.0 20.0 19.1 9.2 9.6 10.4 8.7 7.5 11.7 10.8 11.5 10.8	1968 1969 1970 1971 1972 1968 1969 1970 1971 1972 6.3 7.8 7.6 7.1 7.8 6.5 7.0 8.1 7.0 8.1 12.0 11.5 11.3 12.8 21.3 14.1 12.2 12.4 14.4 16.7 22.6 24.6 21.2 22.7 22.5 21.4 23.3 21.8 21.1 23.0 28.6 24.2 25.7 26.2 23.4 25.0 24.1 22.7 23.4 20.4 20.0 19.9 21.2 19.4 15.9 20.9 20.0 20.0 19.1 18.4 9.2 9.6 10.4 8.7 7.5 11.7 10.8 11.5 10.8 10.0

Table 9. State-wide summary of cottontail rabbit harvest statistics, 1967-72.

1967 23,349 181,812 92,681 1.95 1968 26,889 225,450 93,126 2.42 1969 29,760 184,034 119,596 1.54 1970 24,486 195,248 103,725 1.88 1971 30,824 239,511 145,287 1.65	Year	Total hunters	Total harvest	Hunter days afield	Cottontail per hunter-day	Cottontails* per hunter
1969 29,760 184,034 119,596 1.54 1970 24,486 195,248 103,725 1.88 1971 30,824 239,511 145,287 1.65	1967	23,349	181,812	92,681	1.95	7.79
1970 24,486 195,248 103,725 1.88 1971 30,824 239,511 145,287 1.65	1968	26,889	225,450	93,126	2.42	8.38
1971 30,824 239,511 145,287 1.65	1969	29,760	184,034	119,596	1.54	6.18
	1970	24,486	195,248	103,725	1.88	7.97
1070 00 005 155 100 105 0/1 1/6	1971	30,824	239,511	145,287	1.65	7.78
1972 22,835 155,102 105,941 1.46	1972	22,835	155,102	105,941	1.46	6.79

TOTALS				
(1967-72)158,143	1,181,157	660,356	1.79	7.47
AVERAGES	·			
(1967-71) 27,062	205,211	110,883	1.89	7.62

^{*}Based on county of residence.

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		Crontail
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								COMPLETE HUNTS	CTNOL		
Region		ALL	ALL HUNTS								7 - 1 1 1
and	Total	Total	Total	Total	Rabbits/	Total Complete	Total	Total	Total	Rabbits/ 100 brs	Rabbits/ Hunter
County	Parties	Hunters	Hours	Kappits	TOO DES.	HUDUS	Huncers	e inou	Nabotes	100	Harres
Northern							,	,	,	•	0
Box Elder	6	25	134	13	10	7	21	131	3 0 ·	•	0.38
Cache	1	7	-		100	-	7	 1	p-d	100	0.50
Davis	1	;	!	;	;	:	!	;	1	;	;
Morean	;	i	;	;	;	;	;	!	;	:	!
Rich	Ŋ	15	47	Ŋ	11	7	12	88	ന	œ	0.25
Summit	;	;	:	;	1	:	;	;	1	;	t i
Weber	;	;	;]]			1	:		:	
REGIONAL TOTALS	15	42	182	19	10	12	35	170	12	7	0.34
Central									,	,	,
Juab	-	~ 4		-	100	, p=4	p-4	, 1		100	1.00
Salt Lake	;	;	;	!	:	;	;	:	!	!	;
Sanpete	!	;	!	;	;	1	;	;	:	1	1
Tooele	9	15	47	18	38	7	10	32	15	43	1.50
Utah	:	;	;	:	;	:	;	;	;	•	;
Wasatch	1	;	;	;	;	-				:	
REGIONAL TOTALS	7	16	48	19	40	5	11	36	16	44	1.45
Southern											
Beaver											
Garfield											
Iron											
Kane						! !					
Millard				NO DA	T A C	OLLECTED					
Pfute											
Sevier											
Washington											
KEGLUNAL TOTALS											
Northeastern			*			-	•	•	;	. *	
Daggett	11	29	4 4	48	109	ν.	12	13	27	116	56.1
Duchesne	19	43	103	104	101	10	22	8	95	119	4.32
Uintah	17	28	81	82	101	9	10	20	61	122	6.10
REGIONAL TOTALS	47	100	228	234	103	21	44	149	178	119	4.05
Southeastern											1
Carbon	17	19	41	40	86	16	18	36	39	100	2.17
Emery	œ	26	127	7	9	-	-	-	H	100	
Grand	;	;	1	;	!	;	!	i	1 :	1 1	153
San Juan	31	63	244	190	78	6	19	37	44	119	-
REGIONAL TOTALS	56	108	412	237	58	26	38	17	87	109	2.21
STATE TOTALS	125	266	870	509	58	79	128	432	290	<i>L</i> 9	2.27
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Daggett	171	5.56	.72	3.72	99	2.00	58	1.84	119	1.58	109	1.83
Duchesne	102	4.75	26	0.95	. 15	0.80	31	0.95	21	0.85	101	4.32
Hintah	159	2.58	79	0.86	27	0.92	112	2.28	55	1.15	101	6.10
REGIONAL TOTALS	135	3.94	51	2.84	32	1.17	57	1.72	57	1.29	103	4.05
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San Juan	1	1	1		:	-	33	4.00	t+t-	1.23	0 2	25.32
REGIONAL TOTALS		:	140	2.44	-	-	43	4.00	56	1./2	28	7.71
STATE TOTALS	92	2.67	54	2.00	29	1.16	42	1.32	43	1.20	58	2.27
												1 5

APPENDIX

State-wide temperature and precipitation departures from normal as determined by averaging similar values for the seven weather divisions in Utah, 1960-72. Table 1.

Year		Jan.	Feb.	March	Apri1	May	June	July	August	Sept.	Oct,	Nov.	Dec.
1960	Temp. Precip.	-2.8 +0.30	-3.7 +0.47	+3.1 -0.37	+0.7	0 -0.40	+3,3	+1.6 -0.51	-0.3	+2.4 +0.24	-1.5	+1,4	-0.7
1961	Temp. Precip.	+2.59	+5.37	+1.27	+1.27	+0.47	+5,34	+1.21	+0.97	-5.56	-2.76 +0.42	-3.24	-3.37
1962	Temp. Precip.	-3,44	+1.86	-4,51 -0.08	+3.00	-1.87 +0.16	-0,77	-2.20	-1.04	+0.27	+1,53	+4.39	+0.70
1963	Temp. Precip.	-4.71 -0.26	+8.01	-0.83	-4.14 +0.84	+2.87	-2.79 +0.36	+0.21	+0.21	+1.64	+4.26	+2.17 +0.25	-2.96 -0.83
1964	Temp. Precip.	-1.81	-4.37	-6.49	-3.20	-1.80	-2.59 +0.68	+1.13	-1.54	-2.46	+1.73	-3.61	-0.31 +0.97
1965	Temp. Precip.	+4.07 -0.16	+0.07	-3.59	-1.50	-4.03	-3.70	-2.07 +0.53	-2.67	-7.20 +0.84	+1.37	+5.19	-0.06 +0.71
1966	Temp. Precip.	-0.21	-3,33	+1.51	-0.54	+2.54	+0.24	+0.71	+0.09	+0,53	-2.20	+3.97	-3.60
1967	Temp. Precip.	+0.47	+1.84	+3.47	-4.96 +0.14	-2.34	-3.76 +1.15	+0.76	+1.54	+0.06	+0.39	+3.80	-7.19 +0.54
1968	Temp. Precip.	-3.33	+4.53 +0.35	+2.90	-4.87 +0.59	-1.80	+0.64	-0.49 +0.02	-5.07	-3.10	-0.99	-0.26	-4.11
1969	Temp. Precip.	+5.36 +1.36	-1.11 +1.22	-4.76	+0.21	+4.14 -0.59	-2.54	+0.04 +0.10	+3.03	+1.80	-6.59	-0.01	+1.91
1970	Temp. Precíp.	+3.04	+6.93	-1.17	-6.50	+0.09	-0.06	-0.31 +0.33	+2.09	-4.70	-5.77	+2.06	-1.49
1971	Temp. Precip.	+2.96	+1.61	-0.57	-1.66 +0.28	-2.97	+0.39	+0.59	+1.53	-4.61	-4.93	-2.83	-5.19
1972	Temp. Precip.	+2.71	+4.50	+6.87	-0.66	+0.60	+1.53	+0.19	-0.90	-2.47	-1.63	-2.40	-7.50

Number and percent of total upland game hunters afield who reported hunting each game species during 1966-72 Table 2.

			;	١						Perce	Percent of	Total		
		Ì	Numper	히	Hunters	,	010	2001	1067	1069		1970	1971	1972
Species	1966	1967	1968	1969	1970	1971	7/61	1900	130/	7200	1202	2/21	1	
Pheasant	78,721	85,664	90,453	90,573	78,585	87,878	84,311	96.3	96.6	95.4	8.46	87.6	87.7	87.8
Chukars	17,133	17,485	20,744	22,529	18,013	17,917	16,685	21.0	19.7	21.9	23.6	20.1	17.9	17.4
Mourning doves	20,594	25,161	25,105	29,131	23,908	26,064	29,341	25.2	28.4	26.5	30.5	26.7	26.0	30.5
Sage grouse	2,612	5,336	9,115	12,894	12,036	12,893	13,040	3.2	0.9	9.6	13.5	13.4	12.9	13.6
Forest grouse	6,683	9,420	13,061	12,523	12,775	13,363	16,640	8.2	10.6	13.8	13.1	14.2	13.3	17.3
Quail	6,465	8,455	9,302	9,160	6,141	8,039	7,380	7.9	9.5	8.6	9.6	6.8	8.0	7.7
Hungarian part.	4,549	6,321	6,935	5,591	4,128	4,276	4,754	5.6	7.1	7.3	5.8	4.6	4.3	6.4
Wild turkey**	187	184*	634*	*17*	174	389*	351*	0.2	0.2	0.7	0.5	0.2	0.4	7.0
Cottontail***	i r	23,349	26,889	29,760	24,486	30,824	22,835	;	27.2	28.4	31.2	27.3	30.8	23.8
Total Hunters	81,760	81,760 88,639 94,814 95,483	94,814	95,483	89,657	89,657 100,183	96,047							

*Includes both spring and fall hunts

**Although wild turkey harvest was determined by separate questionnaire, it is assumed that these hunters are derived from the same group of hunters who reported hunting other upland game bird species.

***Of the total 30,824 cottontail hunters, 7,644 did not hunt upland game birds.

Table 3. Season framework for upland game during 1972.

Species	Season dates	Daily bag limit	Possession limit	Area open
Pheasant	Nov. 11-Dec. 10	3 cocks	6 cocks	State-wide except Salt Lake, Sevier and Utah counties.
	Nov. 11-21	3 cocks	6 cocks	Salt Lake, Sevier and Utah counties.
Mourning dove	Sept. 1-30	10	20	State-wide
Chukar	Sept. 23, 1972 to January 15, 1973	, . 8	16	State-wide
Sage Grouse	Sept. 23-29	2	4	Beaver, Daggett, Duchesne, Garfield, Grand, Iron, Kane, Millard, Morgan, Piute, San Juan, Sevier, Summit, Uintah, Wayne, West Box Elder
	Sept. 23-29	1	2	Cache, Carbon, Davis, East Box Elder, Emery, Juab (part), Rich, Sanpete, Tooele, Utah (part), Wasatch (part) and Weber counties.
Th sa	ne following countion nge grouse hunting	es were clos during 1972:	ed to	Salt Lake, Washington, Wasatch and Utah except drainages of the Price River, Juab except the Sheeprock Mountains.
Forest grouse	Sept. 23-Nov. 30	4 aggregate	8 aggregate	State-wide
Quail	Nov. 11-Dec. 10	8	16	State-wide
Hungarian partridge	Sept. 23, 1972 to January 15, 1973	8	16	State-wide
Wild turkeys			•	
Spring hunt	April 29-May 14	Season lin	nit 2 gobblers	Beaver, Garfield, Grand, Iron, Kane, Piute, Sevier, Washington and Wayne countie Also San Juan County north and east of U.S. Highway 160 Highway 46 and the Lisbon Valley Road.
Fall hunt	Sept. 23-Oct. 8	Season li	mit 2 turkeys	Same as above.
Cottontail	Sept. 23, 1972 to March 1, 1973	10	20	State-wide