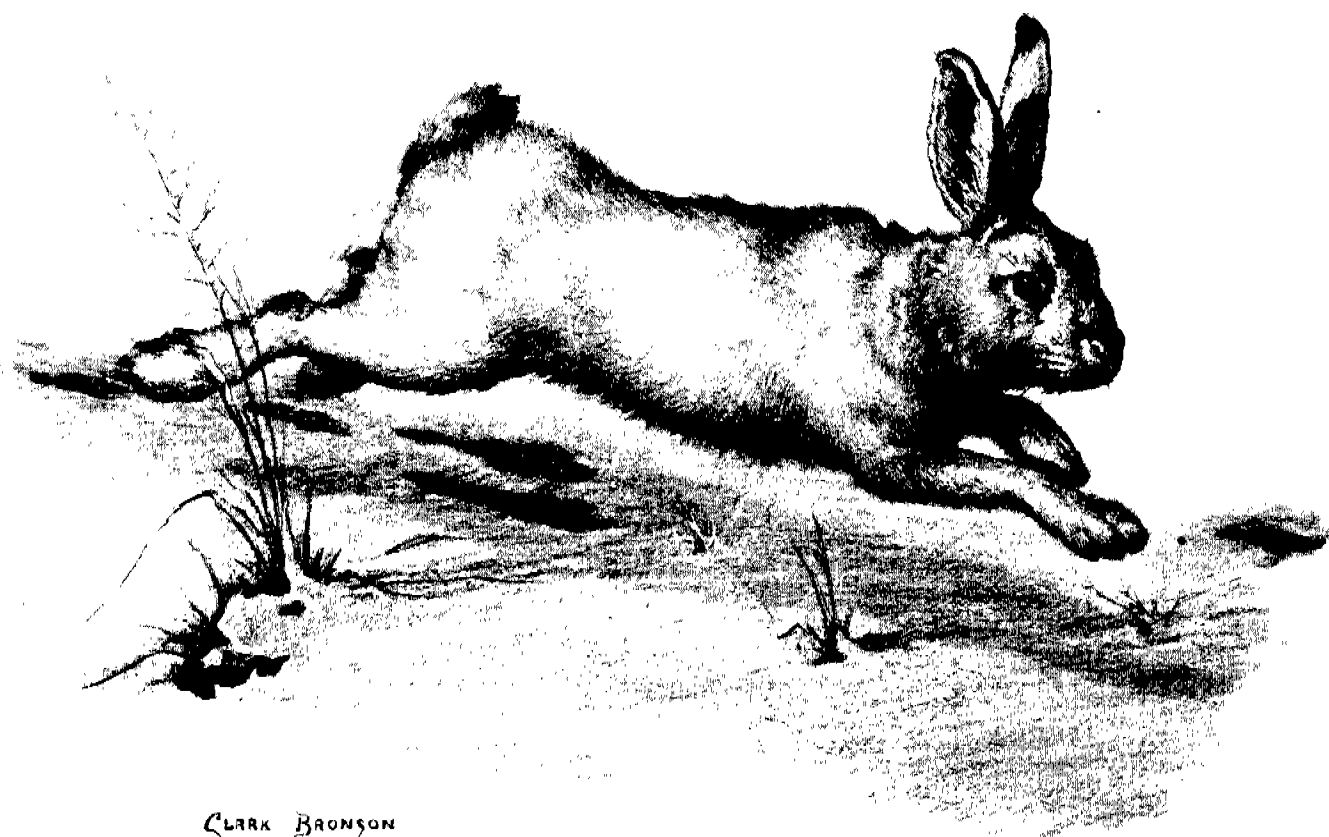


UTAH UPLAND GAME Annual Report 1975



CLARK BRONSON

PUBLICATION NUMBER 76-11

Annual Performance Report for
Federal Aid Project W-65-R-D-24
Job A-4

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES

John E. Phelps, *Director*

UTAH
UPLAND GAME
Annual Report
1975

Prepared by:
Darrell H. Nish
Upland Game Supervisor

PUBLICATION NO. 76-11
Annual Performance Report for Federal Aid Project W-65-R-D-24 Job A-4

Utah State Department of Natural Resources
DIVISION OF WILDLIFE RESOURCES
An Equal Opportunity Employer

John E. Phelps
Director

Copyright © Division of Wildlife Resources, 1976

TABLE OF CONTENTS

	Page
Abstract	1
Objectives	1
Procedures	1
Recommendations	2
Introduction	3
Pheasants	6
Migratory Upland Game Birds	27
Mourning Dove	28
Band-tailed Pigeons	47
Chukar Partridge	50
Sage Grouse	65
Forest Grouse	85
Quail	105
Hungarian Partridge	119
Wild Turkey	134
Rabbits and hares	149
Cottontail rabbit	150
Snowshoe hare	164
Appendix	167

JOB PERFORMANCE REPORT

RESEARCH PROJECT SEGMENT
(Inventory)

State of U T A H

Project Title: Statewide Wildlife
Management Inventory

Project No. W-65-R-D-24

Job Title: Statewide Upland Game
Inventory and Management

Job No. A-4

Period Covered: January 1, 1975 to June 30, 1976

Abstract: This report includes upland game inventory and harvest data relating to the 1975-76 hunting seasons. Results of annual inventory and harvest surveys and long-term trends of indexes derived by each method are included. Data obtained in 1975 are compared to 1974 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, 1974, through February 10, 1975, 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 Fish and Wildlife Service. 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 nests 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 1974 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.

Separate harvest questionnaires were used to determine the harvest of upland game birds, cottontail rabbit and snowshoe hare, band-tailed pigeon and wild turkey. An approximate 20 percent sample of eligible licensees from the previous year (1974) license file was selected for the game bird questionnaire and a 15 percent sample for the rabbit and hare questionnaire. Questionnaires were mailed to all band-tailed pigeon and wild turkey permittees. Indexes derived included total hunters, hunter-days and harvest plus hunter success per day and for each season.

The game bird and rabbit and hare questionnaires were analyzed by the University of Utah Computer Center. Wild turkey and band-tailed pigeon questionnaires were analyzed by Game Management Section personnel.

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 determining trends of upland game inventory and harvest statistics in Utah.

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 fifth edition of this annual Upland Game Report. It is a consolidation of, and annual performance report for, information compiled during 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.

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 1975, a total of 97,808 Utah sportsmen spent 635,490 days afield in pursuit of various upland game species. The harvest of upland game totaled 843,590. The proportion of the total upland game hunters which pursued each species is shown in Appendix Table 2 and the percentage failing to bag at least one bird of each species in Appendix Table 3. The framework for 1975 upland game hunting seasons is shown in Appendix Table 4. Harvest statistics by species were as follows:



Species	Hunters Afield	Total Harvest	Hunter Days	Bag/ Hunter-day	Bag/Hunter For Season
Pheasant	77,566	143,783	234,615	0.61	1.85
Mourning dove	37,378	420,308	131,312	3.20	11.24
Chukar partridge	16,156	41,551	51,083	0.81	2.57
Sage grouse	13,996	18,916	25,720	0.74	1.35
Forest grouse	20,102	42,461	50,579	0.84	2.11
Quail	6,397	16,903	16,805	1.01	2.64
Hungarian partridge	3,409	5,358	8,216	0.65	1.57
Wild turkey					
spring	97	5	219	0.03	0.05
fall	46	7	115	0.06	0.15
Band-tailed pigeon	54	116	119	0.97	2.20
Cottontail	24,803	154,182	116,707	1.32	6.22

Total hunters afield for all species of upland game = 97,808

A total 29,609 upland game bird questionnaires were mailed. Of this number 2,952 (10.0 percent) were non-deliverable. Of the 26,657 deliverable questionnaires, 10,880 (40.8 percent) were returned. Of those returned, 1,308 (12.0 percent) did not purchase a license during 1975. Useable returns, hunts plus no hunts, totaled 9,132. When combined with a total 148,281 eligible licensees a projection factor of 16.237516 resulted.

Rabbit and hare questionnaires were mailed to 22,343 sportsmen. Of these, 2,299 (10.3 percent) were non-deliverable resulting in 20,044 deliverable questionnaires. A return of 8,123 (40.5 percent) questionnaires was achieved. Of this number, 874 (10.8 percent) did not purchase a 1975 hunting license. Useable returns, hunts plus no hunts, totaled 4,950. When combined with a total 148,281 eligible licensees a projection factor of 29.955757 resulted.

Weather conditions during 1975 were characterized by generally below normal temperatures throughout the year. Only in December did average temperatures rise above normal. Precipitation was above normal during the spring and early summer period but generally below normal during the balance of the year. During January and February both temperature and precipitation were a little below normal. Total moisture accumulations in late winter were not sufficient to meet the needs of most range crops; however, this deficit was somewhat relieved by well-above normal rainfall during March. Game bird nesting season weather conditions were especially poor. April temperatures were the lowest in many years with near normal precipitation. In May, temperatures remained well below normal with above normal precipitation. A late snow storm swept much of the State on May 20 and deposited up to 25 inches of snow in some south-central valley areas. Mourning dove mortality directly related to this storm was documented. Below normal temperatures continued through June and above normal precipitation through July. Cold temperatures delayed the planting and development of many farm crops. Upland game nesting was also substantially delayed. August and September were cool but showed below normal precipitation. The usual late August "cold snap" did not occur. A late first fall freeze date allowed late starting crops to mature. Most of the fall hunting seasons progressed under favorable weather conditions as cool weather and near normal precipitation prevailed through October and November. December was relatively warm with well-below normal precipitation (Figures 1 and 2)

(Based on a weather summary for 1975 compiled by E. Arlo Richardson, State Climatologist)

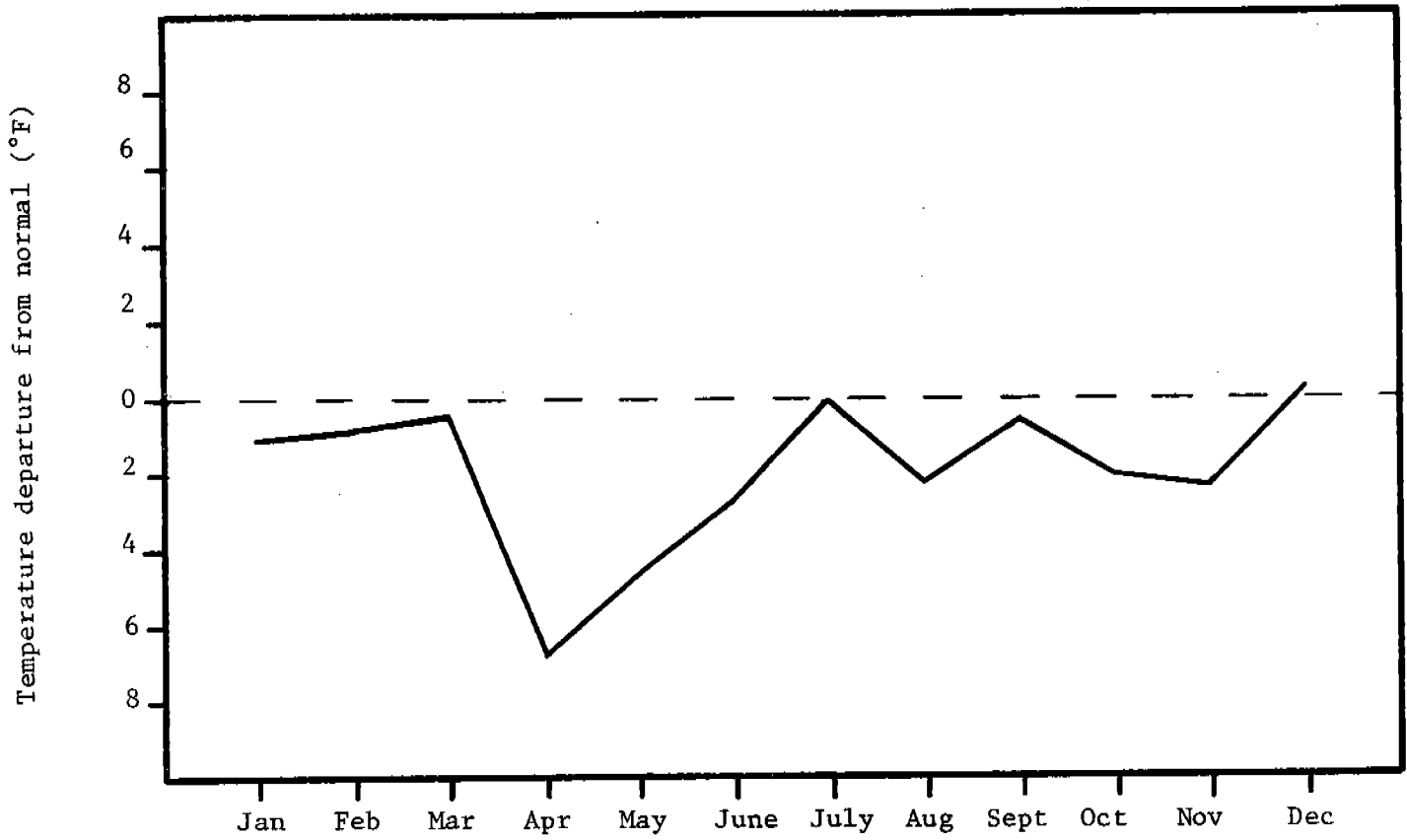


Figure 1. Monthly average temperature departure from normal, 1975.

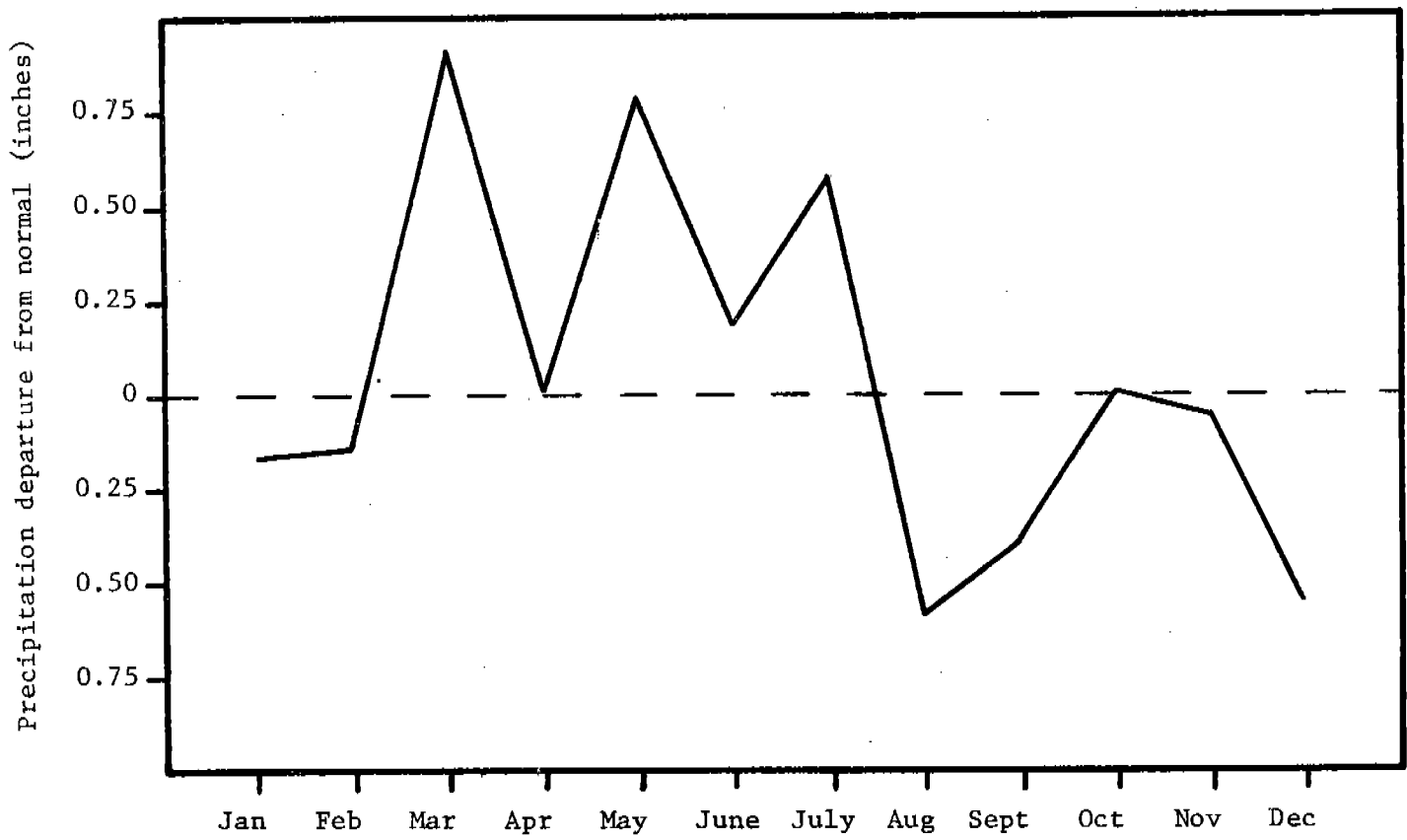


Figure 2. Monthly average precipitation departure from normal, 1975.

RING-NECKED PHEASANT

SUMMARY

The Statewide pheasant breeding population level for 1975, as indicated by both the 1974 harvest statistics and winter sex-ratio counts, was lower than 1974. The reduction was evident in all but the Northern Region.

Production shown by the summer roadside counts was extremely low. Additionally, the density index (pheasants-per-mile) was the lowest on record. The marked decrease in both the production and density indexes was only partially attributable to the decreased pheasant population. An unusually cold spring delayed the planting and development of most farm crops and, based on observational data, delayed pheasant nesting. Consequently, the crop harvest was completely out of synchrony with the normal roadside survey period and counting conditions were poor. Grain and second crop hay, normally harvested by the initiation of roadside counts, were still standing. This, combined with the delayed development of pheasant broods substantially reduced observability of pheasants on the survey routes. Reports from fieldmen following the survey period indicated somewhat higher populations than shown by the roadside counts. The unusual circumstances and results of this survey prompted a follow-up survey which was conducted in mid-September. Results of that survey were interpreted to indicate that both production and density were higher than shown by the regular survey but still lower than in 1974.

Harvest statistics reflected the low pheasant population and forecasts of low hunter success. Total hunters was lower than both 1974 and the average while hunter-days afield declined from 1974 but remained a little above average. The total harvest also declined but not in direct proportion to the reduced pressure due to slightly improved hunter success. Both harvest questionnaire and field bag check results reflected improved success on a daily basis in comparison to 1974.

The present trend of the pheasant population continues to reflect habitat deterioration but even more significantly, at least on a short-term basis, mirrors adverse weather conditions early in the nesting season.



Winter Sex-ratio Counts

Results of this survey for the winter of 1974-75 and long-term trends are shown in Tables 1 and 2 of this section. Comparisons to the winter of 1973-74 and the average on a statewide basis are as follows:

	<u>Winter of</u> <u>1974-75</u>	<u>Percent change from</u> <u>1973-74</u> <u>Average</u>	
Total pheasants counted (roadside)	7,900	+18	-47
Hens per cock	4.5	- 6	- 4
Pheasants observed per 100 hours	944	- 4	- 42
Total hours effort (roadside)	963	+41	+18

These data indicate a breeding population slightly below 1974 and substantially below average. This reduction is consistent with reduced harvest and hunter success during the 1974 pheasant season.

Hen-cock ratios were narrower than during the 1973-74 survey, reflecting continued reduced bag and possession limits (2 and 4 respectively) and a shorter season length. Assuming a preseason sex ratio of 1.1 hens per cock, hunters harvested approximately 76 percent of the 1974 fall population.

Roadside Counts

A summary of pheasant roadside counts for 1975 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 1975 compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u> <u>1974</u> <u>Average</u>	
Total pheasants observed	1,590	-36	-59
Total miles driven	3,237	+ 9	+15
Pheasants per mile	0.49	-41	-64
Average brood size	4.80	-12	-13
Young per hen	2.28	-42	-46
Percent of hens with young	54	-24	-29

April temperatures were lower than in any year since before 1951. May temperatures also averaged well below normal. Freezing minimum temperatures prevailed throughout April and much of May, especially in the southern counties. This resulted in delayed planting and development of agricultural crops as well as delayed, and apparently substantially reduced, pheasant production. Counting conditions during the roadside survey period (July 22-August 3) were extremely poor as both grain and hay were unharvested throughout most of the pheasant range. These factors combined to depress both the production (young per hen) and density (pheasants per mile) indexes to the lowest levels on record; 46 and 64 percent below average, respectively. Observations following the survey period suggested a somewhat higher population level than was indicated by the roadside counts.

Because of the extremely atypical results of this survey an additional, abbreviated follow-up survey was made in mid-September. This was done to provide additional insight into the status of the pheasant population. The results of the later survey are shown in Table 4. Production and density indexes derived from the follow-up survey compared to the regular survey in 1975 and 1974 as follows:

	<u>Follow-up, 1975</u>	<u>Regular, 1975</u>	<u>1974</u>
Pheasants per mile	0.90	0.49	0.83
Young per mile	0.59	0.30	0.62
Mean brood size	5.42	4.80	5.46
Young per hen	2.63	2.28	3.95
Percent hens with young	48	54	71

Two factors prohibit direct comparison of the follow-up survey to the regular surveys of either 1975 or 1974. Since the follow-up survey was conducted approximately six weeks later than the regular survey some confusion of adults and early-hatched young could be expected. The extremely low percentage of hens with young in the Southern Region during the follow-up compared to the earlier survey, suggests this possibility. The follow-up survey was also conducted during a period when observability of pheasants was much improved due to crops being harvested.

The production index (young per hen) shown for the follow-up survey, though still relatively low, was greater than during the regular survey as was the average brood. Both of these indexes would normally be expected to shrink due to chick mortality between late July and mid-September. It seems safe to conclude that production was actually better than indicated by the regular survey.

The pheasants and young per mile indexes shown by the follow-up survey were nearly double those of the regular survey and somewhat comparable to 1974. This increase had to be at least partly attributable to better counting conditions than during the regular survey period but probably also reflected a higher pheasant density than was indicated by the regular 1975 survey.

Based on the combined surveys of 1975 the fall population level was judged to be higher than was suggested by the regular roadside counts but still lower than in 1974.

Harvest

Hunter Questionnaire

Results of the hunter questionnaire for 1975 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 1975 harvest statistics to 1974 and the average:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Pheasant hunters	77,566	- 9	- 7
Pheasants harvested	143,783	-14	-42
Hunter-days afield	234,615	-17	+ 6
Pheasants per hunter-day	0.61	- 6	-37
Pheasants per hunter	1.85	+ 3	-46

Total hunters decreased from 1974; an apparent response to the more restrictive season and a forecast of low hunter success. Hunter-days afield also declined. The total harvest declined but not in direct proportion to the reduced hunting pressure. Hunter success was slightly higher than 1974 on a per day basis but not on a seasonal basis; another reflection of the shorter season.

The total harvest and pheasants per season index were the lowest on record. Long-term trends (1964-75) of total pheasant hunters, hunter-days afield, harvest and hunter success are shown in Figure 1.

Field Bag Checks

A summary of pheasant field bag check data for 1975 is shown in Table 14. The hunter success trend determined via bag check since 1966 is found in Table 15. A comparison of 1975 data on a statewide basis to 1974 and the average follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1973</u>	<u>Average</u>
Total hunters checked	5,102	- 4	+18
Total hours hunted	16,762	- 1	+12
Pheasants per hunter (complete hunts)	0.63	+24	-32
Pheasants bagged per 100 hours	13	+ 8	-35
Average hours per hunter-day (complete hunts)	4.3	0	- 8
Hours hunted per pheasant bagged	6.9	-19	+30

Hunter success indicated by this survey for 1975 was somewhat higher than in 1974 with only a slightly smaller sample size. The Statewide index of 0.63 pheasants bagged per day was only 3 percent higher than the same index derived from the harvest questionnaire.

The average hunter checked spent 4.3 hours afield per hunter-day, the same as in 1974. Less time was required to bag a pheasant than in 1974.

Pheasants bagged per hunter and per hunter-day.

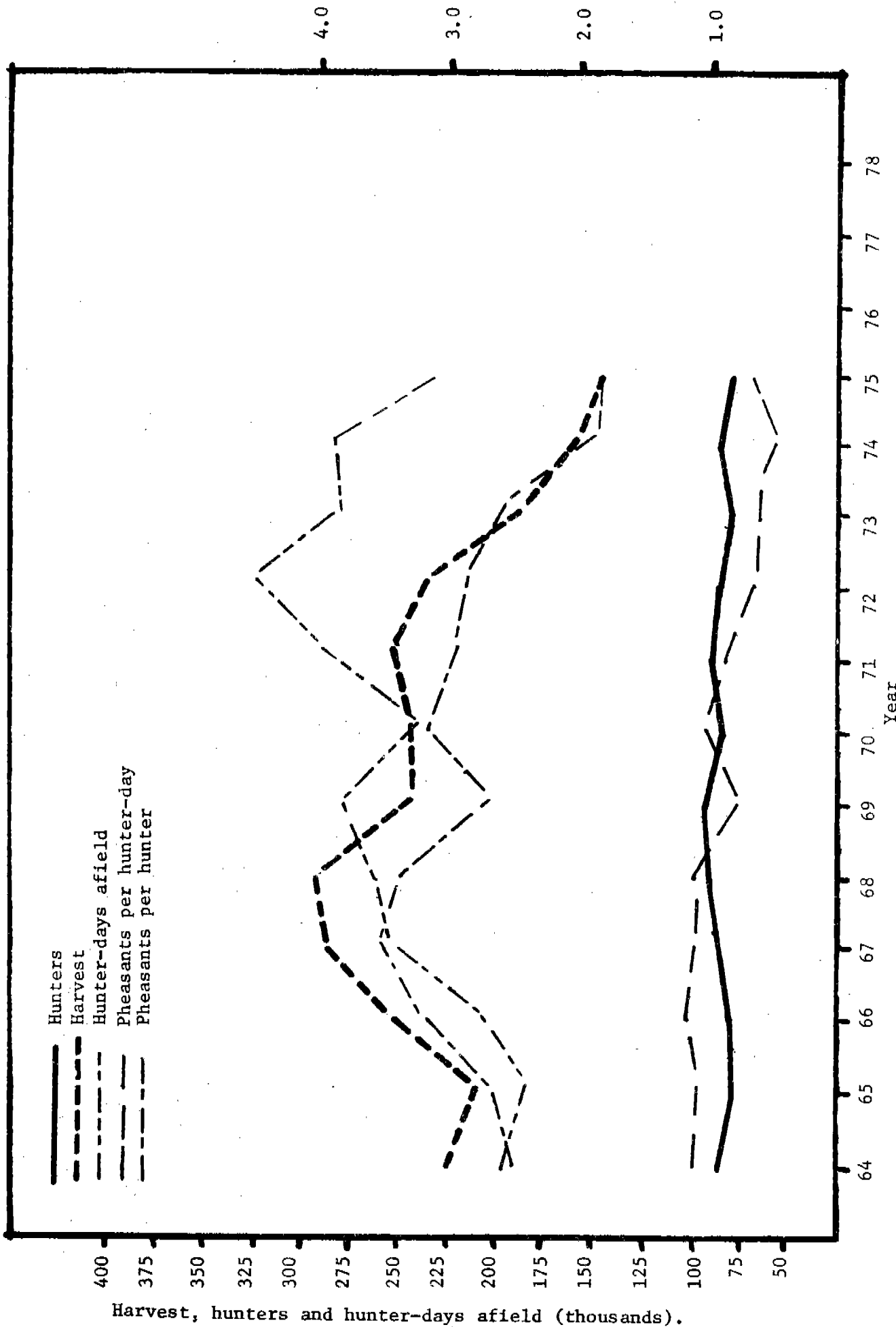


Figure 1. Statewide trend of pheasant harvest statistics.

Harvest, hunters and hunter-days afield (thousands).

Table 1. Summary of pheasant winter sex-ratio counts, 1974-75

Region & County	Roadside Observations				Flushing Observations				Effort Expended			Pheas. Obs. 100 Hrs. of Road Obs.		
	Cocks		Hens		Cocks		Hens		Vehicle Miles	Hours	Effort			
	Total	Sex Ratio	Total	Sex Ratio	Total	Sex Ratio	Total	Sex Ratio	Miles	Vehicle	Total			
Northern Region														
Box Elder	130	575	705	4.42	23	0	0	0	--	346	34	0	34	2074
Cache	42	142	184	3.38	30	9	74	83	8.22	418	32	2	34	575
Davis	40	152	192	3.80	26	10	22	32	2.20	200	16	4	20	1200
Morgan	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rich	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Summit	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Weber	10	135	145	13.50	7	1	20	21	20.0	202	20	4	24	725
REGIONAL TOTALS	222	1004	1226	4.52	22	20	116	136	5.80	1166	102	10	112	1202
Central Region														
Juab	1	19	20	19.00	5	0	0	0	--	169	18	2	20	111
Salt Lake	147	770	917	5.24	19	22	104	126	4.73	1125	102	10	112	899
Sanpete	172	1037	1209	6.03	17	7	22	29	3.14	1141	92	9	101	1314
Tooele	27	178	205	6.59	15	0	0	0	--	403	16	18	34	1281
Utah	262	1386	1648	5.29	19	4	10	14	2.50	1489	144	2	146	1144
Wasatch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	609	3390	3999	5.57	18	33	136	169	4.12	4327	372	41	413	1075
Southern Region														
Beaver	13	35	48	2.69	37	0	3	3	--	95	10	0	10	480
Garfield	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	9	34	43	3.78	26	10	53	63	5.30	111	7	3	10	614
Kane	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Millard	53	218	271	4.11	24	60	198	258	3.30	791	50	10	60	542
Piute	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sevier	91	488	579	5.36	19	4	20	24	5.00	496	44	2	46	1316
Washington	3	15	18	5.00	20	0	0	0	--	55	5	0	5	360
Wayne	23	49	72	2.13	47	8	19	27	2.38	485	16	5	21	450
REGIONAL TOTALS	192	839	1031	4.37	23	82	293	375	3.57	2033	132	20	152	781
Northeastern Region														
Daggett	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Duchesne	195	486	681	2.49	40	22	49	71	2.23	1797	116	21	137	587
Uintah	171	579	750	3.39	30	4	17	21	4.25	836	57	2	59	1316
REGIONAL TOTALS	366	1065	1431	2.91	34	26	66	92	2.54	2633	173	23	196	827
Southeastern Region														
Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Emery	43	132	175	3.07	33	3	13	16	4.33	635	47	3	50	372
Grand	9	17	26	1.89	53	3	11	14	3.67	299	9	10	19	289
San Juan	0	12	12	--	--	40	104	144	2.60	275	2	19	21	600
REGIONAL TOTALS	52	161	213	3.10	32	46	128	174	2.78	1209	58	32	90	367
STATE TOTALS	1441	6459	7900	4.48	22	207	739	946	3.57	11368	837	126	963	944

Table 2. Trend of Pheasant Winter Sex-ratio Counts, 1970-75.

Region & County	1970-71		1971-72		1972-73		1973-74		1974-75		Average 1968-74
	Hens/ Cock	Birds/ 100 hr.	Hens/ Cock	Birds/ 100 hr.	Hens/ Cock	Birds/ 100 hr.	Hens/ Cock	Birds/ 100 hr.	Hens/ Cock	Birds/ 100 hr.	
Northern Region											
Box Elder	4.0	2653	5.2	3327	3.9	1941	5.6	1553	4.42	2074	
Cache	3.6	1900	4.1	772	9.3	912	5.9	443	3.38	575	
Davis	9.5	3890	9.7	2703	11.1	2420	6.3	912	3.80	1200	
Morgan	--	--	--	--	--	--	--	--	--	--	
Rich	--	--	--	--	--	--	--	--	--	--	
Summit	--	--	--	--	--	--	--	--	--	--	
Weber	12.1	3140	8.7	2085	9.8	2995	6.1	662	13.50	725	
REGIONAL TOTALS	5.1	2651	5.6	1727	6.2	1838	5.7	980	4.52	1202	5.4
Central Region											
Juab	3.6	4886	3.2	284	14.9	1725	6.0	117	19.00	111	
Salt Lake	7.3	3155	6.5	1651	5.0	2107	9.3	768	5.24	899	
Sanpete	3.5	1590	3.4	1838	5.8	1674	6.2	2044	6.03	1314	
Tooele	4.9	4245	5.8	2698	10.5	4631	--	--	6.59	1281	
Utah	4.6	1762	5.3	1782	5.4	1432	5.2	970	5.29	1144	
Wasatch	--	--	--	--	--	--	--	--	--	--	
REGIONAL TOTALS	4.8	2419	5.2	1818	6.6	2215	6.3	1167	5.57	1075	5.5
Southern Region											
Beaver	8.8	612	7.7	538	10.4	705	3.7	540	2.69	480	
Garfield	21.0	880	0	67	--	--	--	--	--	--	
Iron	--	--	9.8	634	9.8	491	4.5	546	3.78	614	
Kane	--	--	--	--	--	--	--	--	--	--	
Millard	3.9	1351	8.0	1341	9.2	1439	3.8	663	4.11	542	
Piute	3.7	467	2.2	1733	--	--	--	--	--	--	
Sevier	4.6	2546	6.1	1740	7.7	1505	6.4	1839	5.36	1316	
Washington	4.5	592	1.5	416	4.8	444	1.9	1232	5.00	360	
Wayne	--	--	1.7	375	1.8	450	--	--	2.13	450	
REGIONAL TOTALS	4.4	1430	5.3	1005	7.7	984	4.1	963	4.37	781	5.2
Northeastern Region											
Baggett	--	--	--	--	--	--	--	--	--	--	
Duchesne	2.1	1036	1.7	847	2.3	839	3.1	507	2.49	587	
Uintah	4.2	2069	3.3	1783	2.0	1795	3.0	1184	3.39	1316	
REGIONAL TOTALS	3.0	1414	2.5	1222	2.1	1219	3.0	867	2.91	827	2.6
Southeastern Region											
Carbon	2.0	924	1.3	857	1.8	578	3.5	169	--	--	
Emery	3.5	1353	3.6	1235	3.2	1141	1.9	721	3.07	372	
Grand	--	--	--	--	1.8	243	4.4	270	1.89	289	
San Juan	--	--	--	--	--	--	1.7	2167	--	600	
REGIONAL TOTALS	2.8	1150	3.3	1197	2.8	855	2.3	406	3.10	367	3.0
STATE TOTALS	4.4	2044	4.9	1555	5.6	1692	4.8	981	4.48	944	4.7

Table 3. Pheasant Summer Inventory Summary, 1975.

Region & County	No. Routes	Total Miles	Distinct Broods		Mixed Observ.	Adults w/o Young		Total Hens	Total Yng.	Total Cocks	Total Pheas.	Mile	Yng./Mile	Mean Brood Ad.	Yng./Hen w/Yng.	% Hens		
			No. Yng.	Hens Yng.		Cocks	Hens											
Northern Region																		
Box Elder	2	170	7	22	0	0	4	2	9	22	4	35	0.21	0.13	3.14	2.44	78	
Cache	2	180	15	70	4	8	15	10	29	78	15	122	0.68	0.43	4.67	2.69	66	
Davis	1	62	8	22	25	30	10	1	34	52	10	96	1.55	0.84	2.75	1.53	97	
Morgan	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rich	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Summit	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Weber	1	78	9	52	1	8	7	19	29	60	7	96	1.23	0.77	5.78	2.07	34	
REGIONAL TOTALS	6	490	39	166	30	46	36	32	101	212	36	349	0.71	0.43	4.26	2.10	68	
Central Region																		
Juab	1	34	1	9	3	15	0	0	4	24	0	28	0.82	0.71	9.00	6.00	100	
Salt Lake	2	228	11	63	4	16	12	18	33	79	12	124	0.54	0.35	5.73	2.39	45	
Sanpete	2	171	18	85	5	11	5	13	36	96	5	137	0.80	0.56	4.72	2.67	64	
Tooele	1	60	1	4	0	0	3	2	3	4	3	10	0.17	0.07	4.00	1.33	33	
Utah	4	353	24	99	6	18	37	42	72	117	37	226	0.64	0.33	4.12	1.62	42	
Wasatch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	10	846	55	260	18	60	57	75	148	320	57	525	0.62	0.38	4.73	2.16	49	
Southern Region																		
Beaver	1	180	1	6	0	0	0	6	7	6	0	13	0.07	0.03	6.00	0.86	14	
Garfield	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	1	75	1	6	0	0	1	6	7	6	1	14	0.19	0.08	6.00	0.86	14	
Kane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Millard	2	255	11	63	2	5	10	14	27	68	10	105	0.41	0.27	5.73	2.52	48	
Piute	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sevier	2	186	8	34	2	18	6	7	17	52	6	75	0.40	0.28	4.25	3.06	59	
Washington	2	117	5	29	0	2	8	11	16	31	8	55	0.47	0.26	5.80	1.94	31	
Wayne	1	180	0	0	6	3	1	6	12	3	1	16	0.09	0.02	--	0.25	50	
REGIONAL TOTALS	9	993	26	138	10	28	26	50	86	166	26	278	0.28	0.17	5.31	1.93	42	
Northeastern Region																		
Daggett	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Duchesne	3	363	10	64	3	18	15	9	22	82	15	119	0.33	0.23	6.40	3.73	59	
Uintah	2	152	9	38	2	3	18	12	23	41	18	82	0.54	0.27	4.22	1.78	48	
REGIONAL TOTALS	5	515	19	102	5	21	33	21	45	123	33	201	0.39	0.24	5.37	2.73	53	
Southeastern Region																		
Carbon	2	192	0	0	0	0	2	1	1	0	2	3	0.02	0.00	--	0.00	0	
Emery	3	180	9	45	8	58	30	9	26	103	30	159	0.88	0.57	5.00	3.96	65	
Grand	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
San Juan	1	21	0	0	11	51	4	9	20	51	4	75	3.57	2.43	--	2.55	55	
REGIONAL TOTALS	6	393	9	45	19	109	36	19	47	154	36	237	0.60	0.39	5.00	3.28	60	
STATE TOTALS	36	3237	148	711	82	264	188	197	427	975	188	1590	0.49	0.30	4.80	2.28	54	

Table 4. Follow-up pheasant roadside counts conducted in mid-September, 1975.

Region & County	No. Routes	Total Miles	Distinct Broods		Mixed Observ.		Adults w/o Young		Total Hens	Total Yng.	Total Cocks	Total Pheas.	Total Miles	Yng./Mile	Mean Brood Ad.	Yng./Hen w/Yng.
			No.	Yng.	Hens	Yng.	Cocks	Hens								
Northern Region																
Box Elder	2	102	6	31	2	4	4	1	9	35	4	48	0.47	0.34	5.16	3.89
Cache	2	122	10	47	4	50	14	21	35	97	14	146	1.20	0.79	4.70	2.77
Davis	1	49	7	35	5	10	11	22	34	45	11	90	1.84	0.92	5.00	1.32
Morgan	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rich	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Summit	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Weber	1	52	3	14	3	39	6	14	20	53	6	79	1.52	1.02	4.67	2.65
REGIONAL TOTALS	6	325	26	127	14	103	35	58	98	230	35	363	1.12	0.71	4.88	2.35
Central Region																
Juab	1	24	2	13	7	22	8	1	10	35	8	53	2.21	1.46	6.50	3.50
Salt Lake	2	114	4	23	3	14	10	21	28	37	10	75	0.66	0.32	5.75	1.32
Sanpete	2	115	13	144	0	11	6	0	13	155	6	174	1.51	1.35	11.08	11.92
Tooele	1	40	1	8	3	6	3	2	6	14	3	23	0.58	0.35	8.00	2.33
Utah	4	204	34	154	26	172	12	8	68	326	12	406	1.99	1.60	4.53	4.79
Wasatch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	10	497	54	342	39	225	39	32	125	567	39	731	1.47	1.14	6.33	4.54
Southern Region																
Beaver	1	60	0	0	0	0	0	1	1	0	0	1	0.02	0.00	--	0.00
Garfield	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	1	48	1	5	0	19	4	1	2	24	4	30	0.62	0.50	5.00	12.00
Kane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Millard	2	147	5	28	6	24	27	47	58	52	27	137	0.93	0.35	5.60	0.90
Piute	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sevier	2	102	9	36	1	3	6	3	13	39	6	58	0.57	0.38	4.00	3.00
Washington	2	81	1	6	0	3	28	32	33	9	28	70	0.86	0.11	6.00	0.27
Wayne	1	120	0	0	0	0	9	32	32	0	9	41	0.34	0.00	--	0.00
REGIONAL TOTALS	9	558	16	75	7	49	74	116	139	124	74	337	0.60	0.22	4.69	0.89
Northeastern Region																
Daggett	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Duchesne	2	124	6	29	1	1	3	0	7	30	3	40	0.32	0.24	4.83	4.29
Uintah	2	79	11	49	2	9	8	1	14	58	8	80	1.01	0.73	4.45	4.14
REGIONAL TOTALS	4	203	17	78	3	10	11	1	21	88	11	120	0.59	0.43	4.59	4.19
Southeastern Region																
Carbon	2	124	0	0	0	0	1	0	0	0	1	1	0.01	0.00	--	--
Emery	3	120	5	20	14	39	14	3	22	59	14	95	0.79	0.49	4.00	2.68
Grand	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
San Juan	1	11	2	9	0	0	1	2	4	9	1	14	1.27	0.82	4.50	2.25
REGIONAL TOTALS	6	255	7	29	14	39	16	5	26	68	16	110	0.43	0.27	4.14	2.62
STATE TOTALS	35	1838	120	651	77	426	175	212	409	1077	175	1661	0.90	0.59	5.42	2.63

Table 5. Trend of pheasants observed per mile during summer roadside counts, 1962-75.

Region & County	Year														Average 1962-74
	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	
Northern Region															
Box Elder	3.06	1.29	2.00	1.56	1.85	0.91	0.82	0.68	0.57	1.75	1.10	0.38	0.87	0.21	
Cache	1.90	1.15	0.71	1.62	2.30	1.50	2.20	1.46	1.90	1.98	1.10	0.36	0.48	0.68	
Davis	3.12	1.06	1.26	0.70	2.12	1.39	0.83	4.04	0.70	2.75	1.77	--	0.32	1.55	
Morgan	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Rich	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Summit	--	--	--	--	--	--	0.32	--	--	--	--	--	--	--	
Weber	2.31	2.11	2.15	1.81	2.48	1.67	2.00	3.18	0.71	1.82	2.44	2.36	1.77	1.23	
Regional Totals	2.47	1.31	1.38	1.39	2.13	1.24	1.27	1.89	1.20	2.04	1.45	1.04	0.80	0.71	
Central Region															
Juab	4.06	1.61	1.56	1.32	1.28	1.30	1.07	0.46	1.20	0.32	0.64	0.23	0.46	0.82	
Salt Lake	2.37	1.94	1.80	1.80	1.98	1.40	3.04	2.60	0.88	1.74	1.29	0.44	0.48	0.54	
Sanpete	2.47	1.60	0.88	1.63	2.03	1.00	2.61	2.33	3.34	2.22	3.27	1.78	1.60	0.80	
Tooele	1.90	1.82	1.78	2.03	5.96	1.40	3.70	2.82	3.18	1.69	2.52	0.07	0.87	0.17	
Utah	3.80	4.87	3.97	2.67	2.37	2.40	2.74	2.49	1.84	2.31	2.02	1.36	1.29	0.64	
Wasatch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Regional Totals	2.75	3.05	2.11	2.21	2.38	1.77	2.74	2.38	1.97	2.00	2.06	0.98	1.11	0.62	
Southern Region															
Beaver	1.15	1.00	1.20	0.41	--	0.83	0.88	0.46	0.96	0.69	0.75	0.60	0.60	0.07	
Garfield	--	0.84	0.75	1.10	0.75	0.41	0.79	1.05	0.36	0.03	--	--	--	--	
Iron	3.38	0.88	0.19	0.43	0.86	0.69	--	0.73	0.87	0.77	0.51	0.56	0.53	0.19	
Kane	--	--	--	0.75	--	--	--	--	--	--	--	--	--	--	
Millard	1.48	2.05	1.70	1.84	1.48	1.19	1.61	1.68	1.01	1.15	1.09	0.57	0.79	0.41	
Piute	--	0.16	0.31	0.89	1.02	0.39	--	0.64	0.53	0.35	--	--	--	--	
Sevier	3.33	1.83	0.70	0.88	1.90	1.67	1.71	1.66	1.99	4.13	2.37	1.03	0.89	0.40	
Washington	--	2.77	--	1.39	1.89	1.49	0.99	0.67	0.29	1.32	0.92	1.12	1.34	0.47	
Wayne	--	--	--	--	--	--	--	--	--	--	--	--	0.48	0.09	
Regional Totals	2.60	1.61	0.86	1.11	1.54	1.08	1.37	1.12	0.92	1.48	1.19	0.79	0.78	1.27	
Northeastern Region															
Daggett	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Duchesne	0.51	0.42	0.48	0.42	0.37	0.31	0.30	0.36	0.45	0.32	0.27	0.31	0.33	0.33	
Uintah	0.26	2.16	1.36	3.10	1.40	0.47	1.14	1.27	0.66	0.82	0.74	0.61	1.33	0.54	
Regional Totals	0.49	1.22	0.72	1.21	0.66	0.36	0.46	0.70	0.51	0.51	0.42	0.39	0.61	0.39	
Southeastern Region															
Carbon	2.03	0.87	0	0	0.23	0	2.34	0.09	0.20	0.05	0.15	0.01	0	0.02	
Emery	--	1.92	1.00	1.19	1.12	1.21	0.32	0.69	0.83	0.55	1.32	0.64	1.06	0.88	
Grand	--	--	--	--	--	--	--	--	--	--	1.03	--	--	--	
San Juan	--	--	--	--	--	--	--	--	--	--	--	--	5.00	3.57	
Regional Totals	-2.03	1.26	0.69	0.80	0.82	0.84	0.93	0.39	0.57	0.31	0.76	0.34	0.64	0.60	
STATE TOTALS	2.24	1.86	1.35	1.40	1.57	1.15	1.58	1.40	1.18	1.40	1.33	0.74	0.83	0.49	

Table 6. Trend of young observed per mile during summer roadside pheasant counts, 1962-75.

Region & County	Year														Average 1962-74
	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	
Northern Region															
Box Elder	2.44	0.93	1.55	1.18	1.34	0.71	0.51	0.40	0.35	1.32	0.76	0.28	0.62	0.13	
Cache	1.63	0.88	0.59	1.25	1.94	1.25	1.84	1.05	1.39	1.62	0.81	0.32	0.35	0.43	
Davis	2.17	0.86	0.97	0.53	1.59	0.95	0.65	3.11	0.54	2.25	1.28	--	0.22	0.84	
Morgan	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Rich	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Summit	--	--	--	--	--	0.19	--	--	--	--	--	--	--	--	
Weber	1.91	1.61	1.50	1.52	1.55	1.33	1.60	2.35	0.58	1.35	1.74	1.72	1.31	0.77	
Regional Totals	1.67	0.98	1.07	1.08	1.60	0.99	0.97	1.37	0.86	1.62	1.04	0.77	0.59	0.43	
Central Region															
Juab	3.19	1.25	1.17	1.02	0.90	1.10	0.90	0.27	0.95	0.18	0.50	0.17	0.38	0.71	
Salt Lake	1.93	1.27	1.30	1.26	1.44	1.00	2.14	1.91	0.61	1.31	1.04	0.32	0.32	0.35	
Sanpete	2.08	1.25	0.60	1.12	1.74	0.80	2.10	1.90	2.54	1.74	2.64	1.43	1.26	0.56	
Tooele	1.67	1.53	1.43	1.72	5.06	1.20	3.15	2.49	2.74	1.41	2.09	0.00	0.62	0.07	
Utah	3.06	3.87	3.13	2.18	1.96	1.80	2.11	1.88	1.30	1.68	1.35	1.02	0.95	0.33	
Wasatch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Regional Totals	2.27	2.38	1.59	1.73	1.91	1.40	2.10	1.84	1.46	1.50	1.53	0.73	0.83	0.38	
Southern Region															
Beaver	1.08	0.40	0.76	0.21	--	0.55	0.80	0.26	0.64	0.48	0.57	0.39	0.47	0.03	
Garfield	--	0.57	0.47	0.86	0.57	0.30	0.63	0.74	0.19	0	--	--	--	--	
Iron	2.75	0.67	0.09	0.33	0.65	0.48	--	0.53	0.55	0.62	0.39	0.51	0.46	0.08	
Kane	--	--	--	0.00	--	--	--	--	--	--	--	--	--	--	
Millard	1.29	1.64	1.30	1.51	1.19	0.86	1.39	1.32	0.84	0.90	0.87	0.48	0.57	0.27	
Piute	--	0.13	0.24	0.68	0.81	0.28	--	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	3.21	1.93	0.85	0.70	0.28	
Washington	--	2.07	--	0.86	1.27	1.03	0.71	0.46	0.17	0.95	0.65	0.72	1.03	0.26	
Wayne	--	--	--	--	--	--	--	--	--	--	--	--	0.14	0.02	
Regional Totals	2.13	1.21	0.61	0.85	1.19	0.81	1.15	0.85	0.69	1.14	0.95	0.61	0.59	0.17	
Northeastern Region															
Daggett	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Duchesne	0.35	0.30	0.36	0.32	0.27	0.19	0.20	0.25	0.27	0.21	0.15	0.18	0.21	0.23	
Uintah	0.16	1.70	0.98	2.50	1.10	0.33	0.86	0.86	0.40	0.55	0.55	0.47	1.08	0.27	
Regional Totals	0.32	0.94	0.53	0.96	0.50	0.23	0.32	0.47	0.31	0.34	0.28	0.26	0.45	0.45	
Southeastern Region															
Carbon	1.69	0.70	0	0	0.20	0	1.82	0.03	0.17	0.03	0.10	--	0	0.00	
Emery	--	1.52	0.70	0.94	0.77	0.89	0.18	0.58	0.56	0.30	0.96	0.47	0.81	0.57	
Grand	--	--	--	--	--	--	--	--	--	--	0.67	--	--	--	
San Juan	--	--	--	--	--	--	--	--	--	--	--	--	4.07	2.43	
Regional Totals	1.69	1.01	0.48	0.60	0.58	0.61	0.67	0.31	0.39	0.17	0.54	0.25	0.50	0.39	
STATE TOTALS	1.82	1.43	1.01	1.09	1.20	0.88	1.23	1.06	0.86	1.06	0.99	0.55	0.62	0.30	

Table 7. Trend of young per adult hen ratios found during summer roadside pheasant counts, 1962-75

Region & County	Year														Averages 1962-74
	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	
Northern Region															
Box Elder	5.26	3.49	4.86	3.38	3.15	4.02	2.07	2.00	2.19	4.02	3.26	3.23	3.19	2.44	
Cache	8.54	4.30	5.91	4.20	6.59	6.29	5.65	3.38	3.65	6.64	3.88	10.00	3.00	2.69	
Davis	4.55	3.33	4.50	3.86	3.71	2.75	4.82	4.00	4.00	5.45	3.42	--	4.00	1.53	
Morgan	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Rich	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Summit	--	--	--	--	--	--	1.75	--	--	--	--	--	--	--	
Weber	5.52	3.33	3.17	7.38	2.23	4.47	4.74	3.70	4.22	3.40	3.49	3.72	3.66	2.07	
Regional Totals	5.85	3.70	4.55	4.10	2.97	4.58	3.89	3.27	3.32	5.02	3.50	3.82	3.35	2.10	
Central Region															
Juab	5.48	4.58	4.20	3.41	3.27	6.30	5.40	3.25	4.22	2.33	4.50	4.00	5.00	6.00	
Salt Lake	4.95	3.33	3.48	2.86	3.36	3.40	3.02	3.63	2.96	4.08	4.74	3.24	2.87	2.39	
Sanpete	7.44	4.93	3.26	3.04	7.40	5.60	4.71	5.48	4.02	4.73	5.52	5.33	4.45	2.67	
Tooele	8.33	7.25	4.53	7.15	6.54	8.40	7.08	7.89	6.78	5.95	5.95	0.00	3.36	1.33	
Utah	4.98	4.75	5.03	5.66	4.51	3.80	3.94	3.85	3.69	3.28	2.71	3.33	3.58	1.62	
Wasatch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Regional Totals	5.30	4.65	4.38	4.54	5.06	4.20	3.92	4.30	3.94	3.86	3.78	3.46	3.77	2.16	
Southern Region															
Beaver	16.20	1.35	2.40	1.60	--	2.05	10.67	1.86	5.33	3.27	5.38	2.78	5.83	0.86	
Garfield	--	2.87	3.60	4.10	4.80	3.83	4.00	3.50	2.00	--	--	--	--	--	
Iron	4.73	5.48	3.80	5.30	6.40	2.93	--	3.21	2.53	4.43	4.54	13.67	9.50	0.86	
Kane	--	--	--	0	--	--	--	--	--	--	--	--	--	--	
Millard	9.07	5.14	5.20	5.00	5.70	4.91	6.10	4.58	5.89	4.62	5.65	5.75	2.91	2.52	
Piute	--	3.67	3.00	3.57	4.90	2.50	--	5.33	1.75	5.00	--	--	--	--	
Sevier	6.90	4.16	2.00	4.50	4.80	5.89	6.72	3.74	4.30	4.34	4.94	5.18	3.80	3.06	
Washington	--	3.89	--	2.32	3.00	3.33	3.42	2.88	1.50	3.45	3.50	2.62	3.89	1.94	
Wayne	--	--	--	--	--	--	--	--	--	--	--	--	0.54	0.25	
Regional Totals	6.37	4.09	3.67	4.19	4.68	3.98	5.75	3.84	3.92	4.19	4.98	4.41	3.73	1.93	
Northeastern Region															
Daggett	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Duchesne	4.36	6.00	4.60	5.60	4.70	3.21	5.92	5.00	2.51	3.50	3.00	4.06	3.71	3.73	
Uintah	1.57	5.72	3.90	6.40	5.70	4.27	4.24	3.37	2.62	3.08	4.84	5.64	5.43	1.78	
Regional Totals	3.62	5.77	4.20	6.00	5.20	3.60	4.93	3.77	2.56	3.23	3.92	4.70	4.69	2.73	
Southeastern Region															
Carbon	5.00	6.08	0	0	8.00	0	4.52	1.40	5.00	5.00	4.33	--	--	0.00	
Emery	5.68	3.76	3.53	4.30	5.30	5.17	2.46	6.78	3.55	2.25	3.34	4.70	7.46	3.96	
Grand	--	--	--	--	--	--	--	--	--	--	2.22	--	--	--	
San Juan	--	--	--	--	--	--	--	--	--	--	--	--	7.62	2.55	
Regional Totals	5.62	4.51	3.53	4.30	5.50	5.17	3.91	5.61	3.74	2.36	3.20	4.70	7.52	3.28	
STATE TOTALS	5.35	4.31	4.22	4.62	4.40	4.20	4.25	3.94	3.68	4.09	3.93	3.95	3.95	2.28	

Table 8. Trend of the percent of hens observed with broods during summer roadside pheasant counts, 1963-75.

Region & County	Year													Averages 1963-74
	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	
Northern Region														
Box Elder	85	90	75	86	88	57	58	59	75	69	62	78	78	
Cache	83	81	74	82	86	65	62	66	86	78	50	68	66	
Davis	62	80	65	76	62	91	56	82	87	85	--	100	97	
Morgan	--	--	--	--	--	--	--	--	--	--	--	--	--	
Rich	--	--	--	--	--	--	--	--	--	--	--	--	--	
Summit	--	--	--	--	--	38	--	--	--	--	--	--	--	
Weber	91	74	100	61	100	87	80	100	77	54	82	69	34	
Regional Totals	82	81	75	78	86	66	66	68	82	70	77	74	68	75
Central Region														
Juab	83	100	75	100	100	100	75	100	67	100	100	100	100	
Salt Lake	74	76	80	53	71	69	76	62	66	78	71	52	45	
Sanpete	83	81	67	100	81	97	91	78	95	91	93	88	64	
Tooele	100	94	100	89	100	88	100	100	84	74	0	64	33	
Utah	82	78	79	78	66	72	74	60	69	57	62	58	42	
Wasatch	--	--	--	--	--	--	--	--	--	--	--	--	--	
Regional Totals	82	79	79	77	71	76	79	71	74	69	66	68	49	74
Southern Region														
Beaver	42	50	60	--	75	100	72	100	82	88	64	83	14	
Garfield	81	100	85	100	100	100	83	50	--	--	--	--	--	
Iron	80	75	90	71	76	--	75	59	62	54	100	80	14	
Kane	--	--	0	--	--	--	--	--	--	--	--	--	--	
Millard	82	79	88	96	74	100	77	94	81	88	100	50	48	
Plute	67	100	57	85	50	--	100	50	100	--	--	--	--	
Sevier	56	40	35	98	100	100	96	88	85	90	85	83	59	
Washington	74	--	39	65	67	92	42	67	74	62	66	78	31	
Wayne	--	--	--	--	--	--	--	--	--	--	--	8	50	
Regional Totals	--	75	73	84	78	98	79	77	80	83	79	64	42	79
Northeastern Region														
Daggett	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Duchesne	100	92	95	95	53	92	81	44	68	68	81	76	59	
Uintah	92	70	100	84	91	65	59	42	55	84	91	100	48	
Regional Totals	88	80	98	90	67	76	65	43	60	76	85	90	53	76
Southeastern Region														
Carbon	75	0	0	100	0	74	20	75	100	67	--	--	0	
Emery	72	74	55	92	86	77	94	70	42	66	76	77	65	
Grand	--	--	--	--	--	--	--	--	--	56	--	--	--	
San Juan	--	--	--	--	--	--	--	--	--	--	--	100	55	
Regional Totals	70	74	55	96	86	75	78	71	44	64	76	86	60	73
STATE TOTALS	78	72	82	85	76	78	74	69	75	72	74	71	54	76

Table 9. Trend of average brood size for pheasants, 1962-75

Region & County	Year														Averages 1962-74
	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	
Northern Region															
Box Elder	5.58	4.11	5.42	4.70	3.75	4.93	3.80	3.53	3.68	4.96	4.81	4.75	4.17	3.14	
Cache	6.04	4.93	7.55	5.50	6.17	5.86	6.88	5.63	7.12	8.34	5.47	5.00	4.38	4.67	
Davis	4.00	4.10	4.44	5.67	4.78	5.17	5.14	6.67	5.14	6.52	4.50	--	3.50	2.75	
Morgan	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Rich	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Summit	--	--	--	--	--	4.67	--	--	--	--	--	--	--	--	
Weber	5.52	4.79	4.44	6.00	3.73	3.00	5.69	5.33	3.43	4.80	6.07	6.55	7.27	5.78	
Regional Totals	5.31	4.56	5.49	5.29	4.54	5.13	5.25	5.56	5.28	6.33	5.13	6.00	4.84	4.26	
Central Region															
Juab	5.32	5.50	4.20	4.50	3.78	6.30	5.40	4.33	4.22	7.00	4.50	--	5.00	9.00	
Salt Lake	5.64	4.08	4.22	3.43	5.25	4.67	5.28	5.35	4.95	5.76	6.93	4.58	5.00	5.73	
Sanpete	5.88	5.88	2.64	4.57	6.39	5.18	4.68	5.13	5.52	4.94	6.11	5.92	4.59	4.72	
Tooele	8.33	7.25	4.81	7.15	--	8.38	8.10	7.89	6.78	6.81	8.07	--	6.50	4.00	
Utah	5.95	5.79	6.44	6.20	5.76	5.94	5.07	5.08	5.13	5.89	5.31	5.78	6.24	4.12	
Wasatch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Regional Totals	5.93	5.63	5.26	5.26	5.69	5.83	5.28	5.37	5.41	5.70	5.92	5.60	5.46	4.73	
Southern Region															
Beaver	6.00	3.50	3.17	2.67	--	4.75	10.67	--	--	5.75	6.17	4.33	8.00	6.00	
Garfield	--	3.67	3.60	4.82	4.78	4.25	4.00	4.25	3.00	--	--	--	--	--	
Iron	5.50	4.61	5.00	5.89	6.40	5.62	--	11.00	4.50	7.17	5.67	6.00	9.50	6.00	
Kane	--	5.20	--	--	--	--	--	--	--	--	--	--	--	--	
Millard	6.38	6.14	5.40	5.70	5.09	6.88	--	5.74	6.24	4.44	5.31	5.50	6.20	5.73	
Plute	--	--	3.00	6.25	5.67	5.00	--	5.00	3.50	5.00	--	--	--	--	
Sevier	5.95	5.84	5.00	5.48	5.88	5.35	--	4.22	5.00	5.24	5.67	6.14	4.82	4.25	
Washington	--	5.06	--	5.91	4.90	5.72	4.31	8.00	--	5.25	6.33	4.33	4.42	5.80	
Wayne	--	--	--	--	--	--	--	--	--	--	--	--	7.00	--	
Regional Totals	5.84	5.27	4.89	5.48	5.45	5.78	5.37	5.42	5.30	5.13	5.60	5.38	5.83	5.31	
Northeastern Region															
Daggett	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Duchesne	6.00	6.00	4.79	5.94	4.95	6.10	6.45	6.45	4.82	6.50	4.45	5.64	5.43	6.40	
Uintah	2.20	6.22	5.62	6.79	6.73	4.70	6.54	6.65	6.14	6.05	5.75	6.28	5.21	4.22	
Regional Totals	4.88	6.03	5.18	6.51	5.90	5.40	6.50	6.59	5.33	6.21	5.13	5.89	5.29	5.37	
Southeastern Region															
Carbon	5.00	8.11	--	5.40	6.25	--	7.50	1.00	4.00	5.00	6.50	--	--	--	
Emery	5.69	5.22	4.79	5.15	6.71	6.67	4.00	8.42	5.64	6.00	5.08	6.22	6.67	5.00	
Grand	--	--	--	--	--	--	--	--	--	--	4.00	--	--	--	
San Juan	--	--	--	--	--	--	--	--	--	--	--	--	6.12	--	
Regional Totals	5.62	5.42	4.79	5.18	6.68	6.67	6.45	7.85	5.29	5.89	5.00	6.22	6.36	5.00	
STATE TOTALS	5.72	5.30	5.20	5.62	5.42	5.70	5.40	5.59	5.36	5.73	5.62	5.65	5.46	4.80	

Table 10. Summary of pheasant hunter success and distribution of harvest and hunting pressure by region and county, 1975.

Region and County	Hunters Reporting	Days Hunted	Birds Bagged	Birds per Hunter-day	Birds per Hunter*	% of Pressure	% of Harvest
<u>Northern Region</u>							
Box Elder	562	1,389	1,156	0.83	2.55	9.61	13.05
Cache	405	975	775	0.79	2.29	6.75	8.75
Davis	528	1,479	773	0.52	1.85	10.24	8.73
Morgan	14	33	8	0.24	0.69	0.23	0.09
Rich	4	9	5	0.56	0.00	0.06	0.06
Summit	2	2	1	0.50	3.93	0.01	0.01
Weber	636	1,980	1,170	0.59	2.26	13.70	13.21
REGIONAL TOTALS	2,151	5,867	3,888	0.66	2.18	40.60	43.91
<u>Central Region</u>							
Juab	73	162	61	0.38	1.40	1.12	0.69
Salt Lake	638	1,643	773	0.47	1.62	11.37	8.73
Sanpete	279	667	534	0.80	2.27	4.62	6.03
Tooele	146	336	159	0.47	1.69	2.33	1.80
Utah	1,045	2,228	1,302	0.58	1.50	15.42	14.70
Wasatch	7	9	2	0.22	3.36	0.06	0.02
REGIONAL TOTALS	2,188	5,045	2,831	0.56	1.63	34.92	31.97
<u>Southern Region</u>							
Beaver	24	52	30	0.58	1.33	0.36	0.34
Garfield	8	19	4	0.21	0.67	0.13	0.05
Iron	86	203	87	0.43	1.19	1.40	0.98
Kane	1	9	3	0.33	0.00	0.06	0.03
Millard	250	638	463	0.73	2.06	4.42	5.23
Piute	6	15	6	0.40	2.83	0.10	0.07
Sevier	219	728	409	0.56	2.01	5.04	4.62
Washington	91	239	94	0.39	1.37	1.65	1.06
Wayne	1	2	0	0.00	1.50	0.01	0.00
REGIONAL TOTALS	686	1,905	1,096	0.58	1.72	13.18	12.38
<u>Northeastern Region</u>							
Daggett	2	4	9	2.25	1.00	0.03	0.10
Duchesne	146	331	253	0.76	1.89	2.29	2.86
Uintah	151	489	363	0.74	2.72	3.38	4.10
REGIONAL TOTALS	299	824	625	0.76	2.40	5.70	7.06
<u>Southeastern Region</u>							
Carbon	87	225	77	0.34	1.86	1.56	0.87
Emery	149	446	238	0.53	1.81	3.09	2.69
Grand	7	13	4	0.31	1.44	0.09	0.05
San Juan	8	13	4	0.31	0.38	0.09	0.05
REGIONAL TOTALS	251	697	323	0.46	1.76	4.82	3.65
Unknown counties	29	111	92	0.83	2.67	0.77	1.04
Mixed counties	0	0	0	0.00	0.00	0.00	0.00
STATE TOTALS	5,604	14,449	8,855	0.61	1.85	100	100

*Based on county of residence.

Table 11. Summary of pheasants bagged per hunter-day by region and county, 1970-75.

Region and County	1970	1971	1972	1973	1974	1975
<u>Northern</u>						
Box Elder	1.25	1.18	0.85	0.85	0.69	0.83
Cache	1.29	1.09	0.85	0.87	0.70	0.79
Davis	0.69	0.67	0.54	0.50	0.47	0.52
Morgan	0.95	1.02	0.54	0.63	0.30	0.24
Rich	1.00	1.00	0.38	0.00	1.00	0.56
Summit	0.50	0.00	1.00	0.33	0.69	0.50
Weber	0.79	0.72	0.69	0.63	0.52	0.59
REGIONAL TOTALS	1.02	0.92	0.75	0.72	0.59	0.66
<u>Central</u>						
Juab	1.09	0.93	0.52	0.43	0.39	0.38
Salt Lake	0.76	0.59	0.55	0.61	0.44	0.47
Sanpete	1.32	1.14	0.91	0.81	0.89	0.80
Tooele	0.95	0.69	0.46	0.48	0.37	0.47
Utah	1.11	0.86	0.75	0.67	0.61	0.58
Wasatch	0.00	0.41	0.25	0.00	0.00	0.22
REGIONAL TOTALS	1.01	0.80	0.68	0.65	0.56	0.56
<u>Southern</u>						
Beaver	0.91	1.00	0.70	0.53	0.58	0.58
Garfield	1.00	0.95	0.50	0.88	0.44	0.21
Iron	0.69	0.75	0.63	0.45	0.55	0.43
Kane	--	3.00	--	--	--	0.33
Millard	1.18	0.99	0.81	0.86	0.65	0.73
Piute	0.79	0.93	0.39	0.77	0.88	0.40
Sevier	1.28	1.02	0.84	0.73	0.70	0.56
Washington	0.47	0.54	0.49	0.36	0.38	0.39
Wayne	1.17	0.88	0.00	1.57	1.09	0.00
REGIONAL TOTALS	1.04	0.90	0.74	0.70	0.63	0.58
<u>Northeastern</u>						
Daggett	0.50	0.47	1.00	0.50	0.50	2.25
Duchesne	1.22	1.19	1.09	1.15	0.83	0.76
Uintah	1.13	1.10	0.82	0.92	0.70	0.74
REGIONAL TOTALS	1.16	1.13	0.93	1.03	0.76	0.76
<u>Southeastern</u>						
Carbon	0.70	0.58	0.45	0.52	0.25	0.34
Emery	1.07	0.92	0.92	0.60	0.46	0.53
Grand	0.50	0.75	0.20	0.30	0.00	0.31
San Juan	2.00	0.75	--	1.08	0.94	0.31
REGIONAL TOTALS	0.94	0.76	0.73	0.57	0.42	0.46
Unknown counties	0.58	0.67	0.75	0.75	0.63	0.83
Mixed counties	4.00	--	0.00	0.75	1.95	0.00
STATE TOTALS	1.02	0.88	0.73	0.70	0.59	0.61

Table 12. Distribution of pheasant harvest by region and county, 1970-75.

Region and county	1970	1971	1972	1973	1974	1975
<u>Northern</u>						
Box Elder	14.94	15.36	16.87	12.86	11.64	13.05
Cache	13.44	11.47	12.07	11.31	11.76	8.75
Davis	6.95	6.60	6.81	5.70	8.27	8.73
Morgan	0.34	0.36	0.37	0.38	0.24	0.09
Rich	0.01	0.01	0.03	0.00	0.05	0.06
Summit	0.01	0.00	0.02	0.04	0.10	0.01
Weber	7.54	9.15	9.21	8.31	10.26	13.21
REGIONAL TOTALS	43.24	42.95	45.39	38.60	42.31	43.91
<u>Central</u>						
Juab	1.65	1.50	1.31	0.87	0.96	0.69
Salt Lake	7.58	6.43	6.33	7.80	8.12	8.73
Sanpete	4.70	5.18	4.90	6.88	6.56	6.03
Tooele	1.42	2.52	1.46	1.87	1.72	1.80
Utah	15.84	15.41	14.51	15.84	14.27	14.70
Wasatch	0.00	0.10	0.01	0.00	0.00	0.02
REGIONAL TOTALS	31.19	31.13	28.52	33.26	31.65	31.97
<u>Southern</u>						
Beaver	0.48	0.75	0.79	0.82	0.64	0.34
Garfield	0.04	0.16	0.07	0.07	0.05	0.05
Iron	1.38	1.26	1.41	1.06	0.77	0.98
Kane	0.00	0.05	--	--	--	0.03
Millard	5.62	4.37	5.05	6.01	5.32	5.23
Piute	0.09	0.12	0.08	0.35	0.17	0.07
Sevier	4.26	4.33	4.25	4.06	5.39	4.62
Washington	0.52	1.06	0.93	0.74	0.89	1.06
Wayne	0.06	0.06	0.00	0.32	0.14	0.00
REGIONAL TOTALS	12.45	12.15	12.59	13.42	13.36	12.38
<u>Northeastern</u>						
Daggett	0.03	0.06	0.01	0.02	0.02	0.10
Duchesne	3.56	4.22	3.30	4.45	3.97	2.86
Uintah	4.62	4.09	3.95	4.24	4.24	4.24
REGIONAL TOTALS	8.22	8.37	7.27	8.71	8.24	8.24
<u>Southeastern</u>						
Carbon	1.10	1.30	1.05	1.51	0.36	0.87
Emery	3.21	2.52	3.62	2.32	1.86	2.69
Grand	0.02	0.10	0.04	0.03	0.00	0.05
San Juan	0.03	0.02	--	0.13	0.17	0.05
REGIONAL TOTALS	4.36	3.94	4.71	3.99	2.39	3.65
Unknown counties	0.44	1.45	1.52	1.99	1.59	1.04
Mixed counties	0.10	--	0.00	0.03	0.47	0.00
STATE TOTALS	100	100	100	100	100	100

Table 13. Distribution of pheasant hunting pressure by county hunted, 1969-75.

Region and County	1969	1970	1971	1972	1973	1974	1975
<u>Northern</u>							
Box Elder	12.31	12.23	11.47	14.61	10.71	9.95	9.61
Cache	9.85	10.64	9.23	10.42	9.21	9.92	6.75
Davis	11.29	10.35	8.73	9.28	8.05	10.34	10.24
Morgan	0.53	0.37	0.31	0.50	0.42	0.46	0.23
Rich	0.04	0.01	0.01	0.06	0.01	0.03	0.06
Summit	0.10	0.02	0.01	0.01	0.08	0.09	0.01
Weber	11.87	9.79	11.23	9.76	9.24	11.64	13.70
REGIONAL TOTALS	45.99	43.41	40.99	44.64	37.72	42.43	40.60
<u>Central</u>							
Juab	1.55	1.54	1.42	1.84	1.44	1.48	1.12
Salt Lake	10.26	10.27	9.64	8.46	8.99	11.06	11.37
Sanpete	3.24	3.63	3.99	3.95	6.00	4.39	4.62
Tooele	1.97	1.53	3.19	2.31	2.72	2.74	2.33
Utah	14.01	14.62	15.78	14.27	16.68	13.87	15.42
Wasatch	0.04	0.01	0.21	0.03	0.03	0.01	0.06
REGIONAL TOTALS	31.07	31.60	34.23	30.86	35.85	33.54	34.92
<u>Southern</u>							
Beaver	0.64	0.55	0.66	0.83	1.10	0.65	0.36
Garfield	0.11	0.04	0.15	0.10	0.05	0.06	0.13
Iron	1.42	2.03	1.49	1.66	1.66	0.83	1.40
Kane	--	0.00	0.01	--	--	--	0.06
Millard	4.17	4.86	3.89	4.60	4.95	4.89	4.42
Piute	0.20	0.12	0.11	0.16	0.32	0.11	0.10
Sevier	3.90	3.40	3.74	3.70	3.93	4.55	5.04
Washington	1.14	1.15	1.72	1.39	1.44	1.39	1.65
Wayne	0.04	0.05	0.06	0.07	0.14	0.07	0.01
REGIONAL TOTALS	11.62	12.20	11.83	12.50	13.59	12.55	13.18
<u>Northeastern</u>							
Daggett	0.05	0.07	0.11	0.01	0.03	0.03	0.03
Duchesne	2.62	2.99	3.13	2.22	2.72	2.83	2.29
Uintah	3.85	4.19	3.26	3.52	3.23	3.58	3.38
REGIONAL TOTALS	6.52	7.25	6.50	5.76	5.98	6.43	5.70
<u>Southeastern</u>							
Carbon	1.85	1.61	1.98	1.71	2.05	0.85	1.56
Emery	2.73	3.05	2.41	2.88	2.73	2.40	3.09
Grand	0.13	0.05	0.12	0.14	0.07	0.03	0.09
San Juan	0.09	0.02	0.03	--	0.08	0.11	0.09
REGIONAL TOTALS	4.80	4.73	4.54	4.73	4.93	3.40	4.82
Unknown counties	--	0.78	1.92	1.49	1.88	1.50	0.77
Mixed counties	--	0.03	--	0.03	0.03	0.14	0.00
STATE TOTALS	100	100	100	100	100	100	100

Table 14. State-wide summary of pheasant harvest statistics, 1948-1975.

Year	Total hunters	Total harvest	Hunter-days afield	Pheasants per hunter-day	Pheasants per hunter
1948	96,534	280,914	--	--	2.91
1949	88,369	263,340	189,453	1.39	2.98
1950	92,724	249,428	235,309	1.06	2.69
1951	76,576	246,575	171,233	1.44	3.22
1952	78,773	246,559	185,383	1.33	3.13
1953	82,595	245,307	176,480	1.39	2.97
1954	82,370	260,289	201,774	1.29	3.16
1955	78,793	196,195	178,359	1.10	2.49
1956	77,826	206,239	182,512	1.13	2.65
1957	83,025	228,319	170,387	1.34	2.75
1958	88,290	309,015	220,725	1.40	3.50
1959	86,268	243,276	202,730	1.21	2.82
1960	81,976	232,812	177,719	1.31	2.84
1961	83,493	238,439	243,305	0.98	2.86
1962	86,336	262,448	209,921	1.25	3.04
1963	87,647	297,873	198,582	1.50	3.40
1964	88,242	225,775	196,314	1.15	2.56
1965	77,409	211,876	186,215	1.14	2.74
1966	78,721	249,814	209,082	1.19	3.17
1967	85,664	284,000	257,033	1.10	3.32
1968	90,453	297,752	267,788	1.11	3.29
1969	90,573	250,241	277,887	0.90	2.76
1970	78,585	250,503	244,958	1.02	3.19
1971	87,878	259,189	294,618	0.88	2.95
1972	84,311	240,573	327,669	0.73	2.85
1973	75,968	196,012	278,033	0.70	2.58
1974	85,252	167,408	282,294	0.59	1.96
1975	77,566	143,783	234,615	0.61	1.85
<hr/>					
TOTALS (1949-75)	2,352,217	6,783,954	6,000,378	2.88	1.13
<hr/>					
AVERAGES (1948-74)	84,246	245,932	221,760	2.92	1.14

Table 13. Pheasant Field Bag check summary, 1973.

Region & County	ALL HUNTS				COMPLETE HUNTS					
	Total Parties	Total Hunters	Total Hours	Total Birds/100 Hrs.	Total Complete Hunts	Total Hunters	Total Hours	Total Birds/100 Hrs.	Birds/Hunter	
Northern Region										
Box Elder	126	295	744	136	18	106	664	129	19	0.52
Cache	90	345	1,027	150	15	70	524	97	19	0.61
Davis	161	419	1,219	96	8	51	388	36	9	0.28
Morgan	--	--	--	--	--	--	--	--	--	--
Rich	--	--	--	--	--	--	--	--	--	--
Summit	--	--	--	--	--	--	--	--	--	--
Weber	51	119	323	26	8	17	125	15	12	0.38
REGIONAL TOTALS	428	1,178	3,313	408	12	244	1,701	277	16	0.48
Central Region										
Juab	23	63	111	18	16	2	24	1	4	0.28*
Salt Lake	39	97	257	39	15	14	80	15	19	0.47
Sanpete	80	277	854	119	14	18	258	44	17	0.73
Tooele	55	134	335	45	13	3	15	8	53	0.34*
Utah	198	533	1,674	192	11	26	152	24	16	0.42
Wasatch	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	395	1,104	3,231	413	13	63	529	92	17	0.58
Southern Region										
Beaver	41	133	392	54	14	16	143	22	15	0.56
Garfield	--	--	--	--	--	--	--	--	--	--
Iron	10	27	26	10	39	0	0	0	--	0.37*
Kane	--	--	--	--	--	--	--	--	--	--
Millard	198	517	1,614	195	12	34	230	58	25	0.70
Piute	--	--	--	--	--	--	--	--	--	--
Sevier	152	385	1,387	210	15	40	392	65	17	0.66
Washington	26	80	149	23	15	3	16	4	25	0.29*
Wayne	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	427	1,142	3,568	492	14	93	781	149	19	0.65
Northeastern Region										
Daggett	--	--	--	--	--	--	--	--	--	--
Duchesne	192	584	3,135	371	12	119	2,441	299	12	0.89
Uintah	147	455	1,808	236	13	103	1,399	187	13	0.71
REGIONAL TOTALS	339	1,039	4,943	607	12	222	3,840	486	13	0.81
Southeastern Region										
Carbon	92	207	545	79	14	38	336	42	12	0.54
Emery	141	389	1,081	110	10	30	202	26	13	0.41
Grand	--	--	--	--	--	--	--	--	--	--
San Juan	20	43	81	9	11	8	34	6	18	0.38
REGIONAL TOTALS	253	639	1,707	198	12	76	572	74	13	0.47
STATE TOTALS	1,842	15,102	16,762	2,118	13	698	7,423	1,078	15	0.63

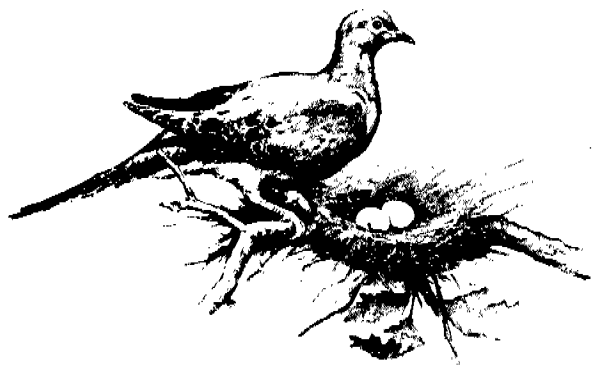
*Based on incomplete hunts.

Table 16. Pheasant hunter success trend as determined by field bag check, 1971-75.

Region and County	1971		1972		1973		1974		1975	
	Birds/ 100 hr. Day	Birds/ 100 hr. Day	Birds/ 100 hr. Day	Birds/ 100 hr. Day	Birds/ 100 hr. Day	Birds/ 100 hr. Day	Birds/ 100 hr. Day	Birds/ 100 hr. Day	Birds/ 100 hr. Day	Birds/ 100 hr. Day
<u>Northern Region</u>										
Box Elder	10	0.30	18	1.18	13	0.51	13	0.43	18	0.52
Cache	21	0.63	19	0.70	16	0.69	16	0.61	15	0.61
Davis	16	--	16	1.12	13	0.52	11	0.55	8	0.28
Morgan	--	--	--	--	--	--	--	--	--	--
Rich	--	--	--	--	--	--	--	--	--	--
Summit	--	--	--	--	--	--	--	--	--	--
Weber	13	0.35	18	0.65	13	0.37	14	0.54	8	0.38
REGIONAL TOTALS	16	0.52	18	0.59	14	0.53	14	0.47	12	0.48
<u>Central Region</u>										
Juab	13	2.00	--	--	6	0.80	5	0.10	16	0.28
Salt Lake	15	0.32	13	0.39	15	0.71	9	0.27	15	0.47
Sanpete	34	0.71	15	0.58	20	1.68	13	0.14	14	0.73
Tooele	19	0.72	10	0.64	17	0.67	10	1.67	13	0.34
Utah	27	1.13	15	0.65	13	0.62	17	0.94	11	0.42
Washington	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	22	0.77	14	0.51	15	0.77	14	0.46	13	0.58
<u>Southern Region</u>										
Beaver	39	1.33	22	0.86	11	0.94	--	--	14	0.56
Garfield	23	0.33	--	--	--	--	--	--	--	--
Iron	26	1.32	25	1.07	7	--	18	0.44	39	0.37
Kane	--	--	--	--	--	--	--	--	--	--
Millard	18	0.79	14	0.87	14	0.79	14	0.79	12	0.70
Piute	36	3.00	--	--	--	--	20	1.00	--	--
Sevier	26	1.10	24	1.30	14	0.80	16	0.30	15	0.66
Washington	21	0.31	14	0.31	17	0.80	--	--	15	0.29
Wayne	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	22	0.89	19	1.13	14	0.81	15	0.57	14	0.65
<u>Northeastern Region</u>										
Daggett	--	--	--	--	--	--	--	--	--	--
Duchesne	22	1.73	15	1.14	16	1.13	9	0.57	12	0.89
Uintah	24	1.36	16	0.88	15	0.89	10	0.59	13	0.71
REGIONAL TOTALS	23	1.56	16	1.09	16	1.03	9	0.58	12	0.81
<u>Southeastern Region</u>										
Carbon	15	1.00	3	0.08	6	0.15	3	0.40	14	0.54
Emery	13	0.53	15	0.62	9	0.42	12	0.42	10	0.41
Grand	9	0.33	--	--	--	--	--	--	--	--
San Juan	--	--	--	--	12	0.40	15	0.62	11	0.38
REGIONAL TOTALS	13	0.51	14	0.54	9	0.37	11	0.46	12	0.47
STATE TOTALS	21	1.05	16	0.82	14	0.70	12	0.51	13	0.63

MIGRATORY UPLAND GAME BIRDS

SUMMARY



Mourning Doves

The breeding density index for 1975 was substantially lower than both 1974 and the average primarily because of adverse spring weather conditions. Heavy snowfall over much of the State on May 20 caused an undetermined mortality of mourning doves.

Data available suggests delayed nesting and possible decreased production; however, reports received from the field suggested relatively high dove populations over most of the State.

The late spring and apparent late nesting combined with generally mild weather in August and early September, and a Labor Day opening, to produce a record mourning dove harvest. Migration was delayed making more doves available to the hunter. Total hunters, hunter-days afield and hunter success all increased over 1974 and all but the doves per day index were well above average. Increased hunter success shown by the harvest questionnaire was substantiated by field bag check data.

Banding efforts resulted in 2,688 banded doves during 1975. The age composition of this sample was 60 immatures per 100 adults. A banding moratorium will be in effect from 1976 through 1978 to facilitate analysis of recoveries presently on file.

Band-tailed Pigeons

During 1975, 285 band-tailed pigeons were banded raising the long-term total (since 1970) to 2,011. An additional 118 previously banded pigeons were recaptured.

Hunter participation during the 1975 season remained at an extremely low level with only 54 hunters afield. This was lower than both 1974 and the average. Total hunter-days was similar to 1974 and above average; probably due to increased hunter success. Total harvest increased over 1974 to about average.



MOURNING DOVE

Call-Count Survey

Results of the 1975 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 from those published in the annual Mourning Dove Status compiled by the Fish and Wildlife Service. Indicated trends are similar and the average for the period 1964-74:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Total doves heard per route	12.1	-37	-22
Total calls heard per route	31.0	-59	-54
Total doves seen per route	12.4	044	-26

A marked reduction in breeding density indexes from both 1974 and the average was shown by call-count data. This decline was thought to be largely due to the unusually low temperatures in April and May and a heavy snowstorm which swept the State on May 20, just prior to the survey period. Mourning dove mortality resulted from that storm but the proportion of the population effected was not known. Reports from the field suggested relatively high dove populations in most areas of the State during the summer months.

Harvest

Hunter Questionnaire

Information obtained from the hunter questionnaire for 1975 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 statewide harvest statistics in Table 7. Harvest statistics for 1975 compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Mourning dove hunters	37,378	+10	+111
Mourning dove harvest	420,308	+37	+162
Hunter-days afield	131,312	+16	+152
Mourning doves per hunter-day	3.20	+18	- 15
Mourning doves per hunter	11.24	+25	+ 28

The 1975 mourning dove harvest was by far the largest on record for Utah. It resulted from a combination of increased hunting pressure, both hunters and hunter-days, and improved hunter success. It occurred in contrast to a substantially reduced breeding density index. It confirmed the fact that mortality resulting from the May 20 snowstorm was not extensive.

The increased harvest probably did not reflect a substantially increased mourning dove population but rather a combination of factors which delayed normal migration patterns. The extremely late spring undoubtedly delayed nesting. This, along with generally mild weather during August and early in the mourning dove season, resulted in more birds being available to the hunter; birds that normally would

have migrated prior to the season opening. Added to this was the opening of the season on Labor Day which was probably the stimulus for the increased hunting pressure.

Long-term harvest trends are depicted in Figure 2.

Field Bag Checks

A summary of field bag check data for 1975 is shown in Table 8. Hunter success trends determined via this method are shown in Table 9. Results of the 1975 survey compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Total hunters checked	1,966	+28	+42
Total hours hunted	5,792	+16	+47
Doves per hunter (complete hunts)	4.81	+37	+38
Doves bagged per 100 hours	124	+53	+29
Average hours per hunter-days (complete hunts)	3.6	-12	0
Hours hunted per dove bagged	0.7	-42	-36

Hunter success shown by field bag checks was markedly higher than both 1974 and the average. It was also higher than shown by the harvest questionnaire.

Dove hunters spent less time per day afield than in 1974 with less time required per dove bagged.

Banding

Results of the annual preseason mourning dove banding program for 1975 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 1975, 2,688 doves were banded in Utah, all by Division personnel. Banding was distributed among 17 counties.

Age composition of doves banded was 60 immatures per 100 adults. This suggests slightly decreased reproductive success in 1975 as compared to 1974.

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 1964-73 this value was 1.3 percent. Total recovery rate (direct recoveries plus all subsequent recoveries) for 1949-62 was 2.7 percent and for 1964-71, 2.6 percent. Expansion of the direct recovery rate of 1.3 percent for the period 1964-73 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.

Through August, 1970, only 31 bands were 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.

To facilitate analysis of banding data presently on file at the U. S. Fish and Wildlife Service Bird Banding Laboratory, a banding moratorium will be in effect in Utah and other Western states from 1976 through 1978. Results of this analysis will be incorporated in this report as they are obtained.

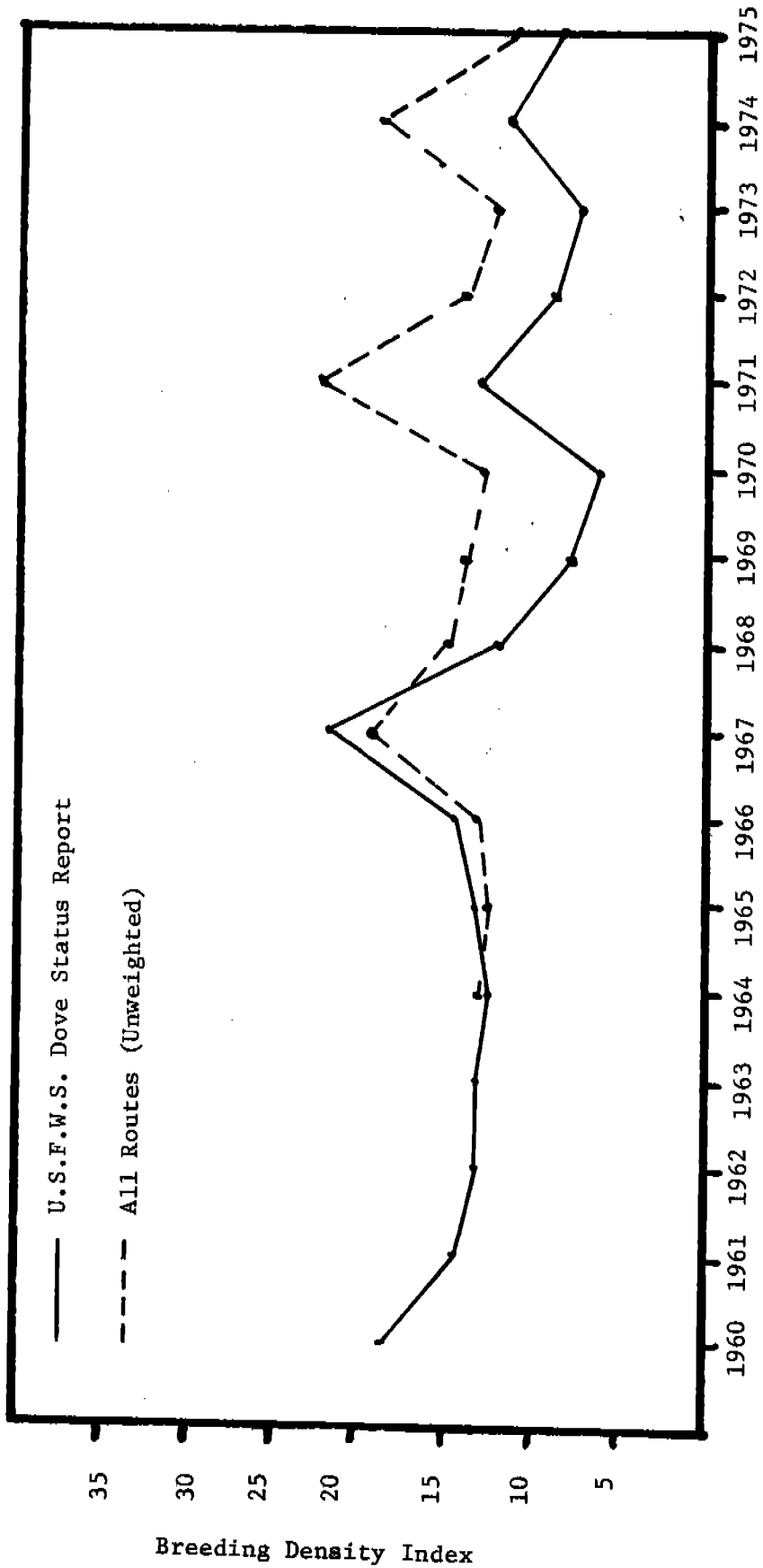


Figure 1. Mourning dove breeding density index trend, 1960-75.

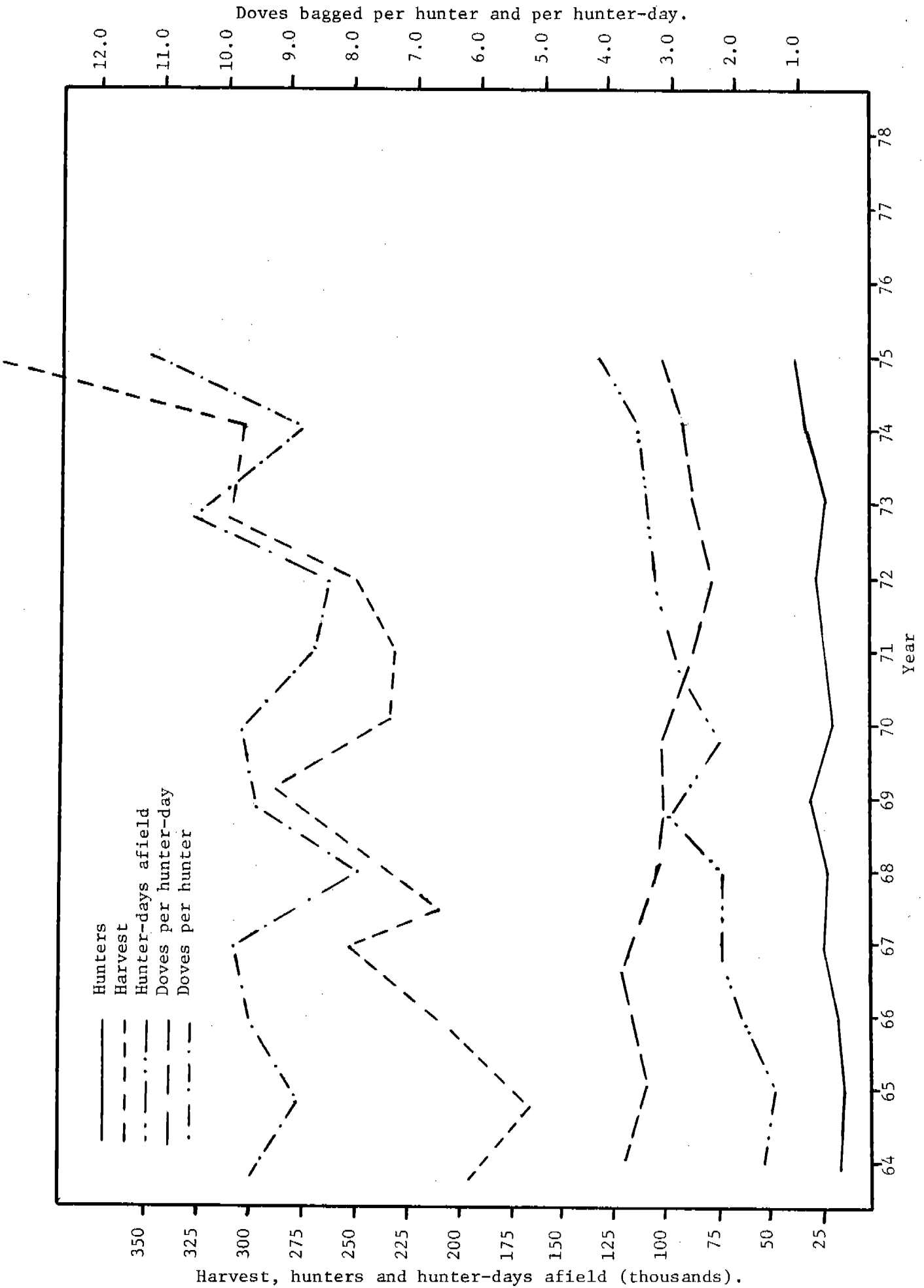


Figure 2. Statewide trends of mourning dove harvest statistics.

Table 1. Summary of the mourning dove call-count surveys for 1975.

Region and County	Route Number	Total Doves Heard Per Route	Total Calls Heard Per Route	Total Doves Seen Per Route
<u>Northern</u>				
Summit	R1020	3	8	8
Box Elder	R1500	5	8	14
REGIONAL TOTALS		8	16	22
<u>Central</u>				
Juab	R2830	13	27	2
REGIONAL TOTALS		13	27	2
<u>Southern</u>				
Sevier-Sanpete	R0370	0	0	5
Wayne-Sevier	R0660	7	12	0
Garfield	R1090	AUTOMATIC ZERO		
Millard	R3640	21	103	10
Beaver	R3820	0	0	2
Iron	R4000	42	109	7
Washington	R4310	37	117	9
REGIONAL TOTALS		107	341	33
<u>Northeastern</u>				
Duchesne	R0080	9	31	0
Uintah	R0220	7	20	2
REGIONAL TOTALS		16	51	2
<u>Southeastern</u>				
Emery	R0540	6	27	61
San Juan	R1170	32	103	66
San Juan	R1450	AUTOMATIC ZERO		
REGIONAL TOTALS		38	130	127
STATE TOTALS		182	465	186
STATE AVERAGE		12.1	31.0	12.4
PERCENT CHANGE (from previous year)		-37	-59	-44

Table 2. 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, 1964-75.

Region and County	Route Number	Number of Doves Heard per Route												
		1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	
Northern Region														
Summit	R1020	11	9	16	10	16	7	11	10	7	3	3	3	
Box Elder	R1500	2	5	6	2	6	3	7	4	2	5	3	5	
Regional Totals		13	14	22	12	22	10	18	14	9	8	6	8	
Central Region														
Juab	R2830	28	17	22	42	23	8	15	32	6	17	16	13	
Regional Totals		28	17	22	42	23	8	15	32	6	17	16	13	
Southern Region														
Sevier-Sanpete	R0370	3	3	0	7	1	0	1	1	0	0	0	0	
Wayne-Sevier	R0660	8	8	5	12	7	2	8	11	20	11	16	7	
Garfield	R1090	22	19	29	27	17	18	6	14	29	0	0	0	
Millard	R3640	--	18	18	40	43	26	7	17	19	24	22	21	
Beaver	R3820	9	17	19	9	23	9	17	12	13	6	24	0	
Iron	R4000	26	33	13	19	13	26	15	24	20	35	103	42	
Washington	R4310	33	36	36	40	21	38	54	64	61	26	32	37	
Regional Totals		101	134	120	154	125	119	108	143	162	102	197	107	
Northeastern Region														
Duchesne	R0080	10	7	23	62	11	10	3	16	8	3	14	9	
Uintah	R0220	6	9	12	17	33	38	15	66	4	18	12	7	
Regional Totals		16	16	35	79	44	48	18	82	12	21	26	16	
Southeastern Region														
Emery	R0540	6	6	3	2	7	11	9	10	1	27	4	6	
San Juan	R1170	5	5	1	6	7	18	33	60	24	17	41	32	
San Juan	R1450	--	2	0	0	0	Automatic	Zero						
Regional Totals		11	13	4	8	14	29	42	70	25	44	45	38	
STATE TOTALS														
		169	194	203	295	228	214	201	341	214	192	290	182	
STATE AVERAGES														
		13.0	12.9	13.5	19.7	15.2	14.3	13.4	22.7	14.3	12.8	19.3	12.1	\bar{X} =15.2
PERCENT CHANGE (from previous year)														
			-1	+5	+46	-23	-6	-6	+69	-37	-10	+51	-37	

Table 3. Summary of mourning dove hunter success and distribution of harvest and hunting pressure by region and county, 1975.

Region and County	Hunters Reporting	Days Hunted	Birds Bagged	Birds per Hunter-Day	Birds per Hunter*	% of Pressure	% of Harvest
<u>Northern</u>							
Box Elder	249	538	2,551	4.74	8.94	6.65	9.86
Cache	99	346	905	2.62	10.19	4.28	3.50
Davis	88	256	434	1.70	8.30	3.17	1.68
Morgan	34	84	264	3.14	11.00	1.04	1.02
Rich	13	27	78	2.89	7.50	0.33	0.30
Summit	13	33	90	2.73	9.30	0.41	0.35
Weber	158	544	967	1.78	9.29	6.73	3.74
REGIONAL TOTALS	654	1,828	5,289	2.89	9.11	22.60	20.43
<u>Central</u>							
Juab	197	471	2,495	5.30	20.30	5.82	9.64
Salt Lake	249	882	2,077	2.35	10.34	10.91	8.02
Sanpete	83	205	544	2.65	10.00	2.53	2.10
Tooele	180	477	1,767	3.70	12.76	5.90	6.83
Utah	530	1,689	4,221	2.50	9.25	20.89	16.31
Wasatch	19	69	215	3.12	22.17	0.85	0.83
REGIONAL TOTALS	1,258	3,793	11,319	2.98	10.41	46.90	43.73
<u>Southern</u>							
Beaver	28	98	526	5.37	21.28	1.21	2.03
Garfield	7	31	166	5.35	27.17	0.38	0.64
Iron	51	251	1,026	4.09	21.57	3.10	3.96
Kane	11	26	128	4.92	10.67	0.32	0.49
Millard	114	290	1,371	4.73	12.42	3.59	5.30
Piute	7	33	109	3.30	19.40	0.41	0.42
Sevier	80	428	1,571	3.67	23.56	5.29	6.07
Washington	58	221	1,116	5.05	21.40	2.73	4.31
Wayne	15	42	172	4.10	13.09	0.52	0.66
REGIONAL TOTALS	371	1,420	6,185	4.36	19.80	17.56	23.89
<u>Northeastern</u>							
Daggett	9	19	88	4.63	9.67	0.23	0.34
Duchesne	32	73	259	3.55	9.16	0.90	1.00
Uintah	66	286	868	3.03	11.89	3.54	3.35
REGIONAL TOTALS	107	378	1,215	3.21	11.11	4.67	4.69
<u>Southeastern</u>							
Carbon	49	200	574	2.87	15.96	2.47	2.22
Emery	38	214	413	1.93	8.80	2.65	1.60
Grand	28	79	291	3.68	14.19	0.98	1.12
San Juan	32	137	440	3.21	10.70	1.69	1.70
REGIONAL TOTALS	147	630	1,718	2.73	13.43	7.79	6.64
Unknown counties	17	38	159	4.18	36.00	0.47	0.61
Mixed counties	0	0	0	0.00	0.00	0.00	0.00
STATE TOTALS	2,554	8,087	25,885	3.20	11.24	100	100

*Based on county of residence.

Table 4. Summary of mourning doves bagged per hunter-day by region and county, 1965-75.

Region and County	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
<u>Northern</u>											
Box Elder	4.97	5.37	4.35	3.79	3.88	3.60	3.85	3.16	4.25	3.34	4.74
Cache	2.96	3.83	3.27	3.03	2.49	3.27	2.62	2.23	2.29	1.92	2.62
Davis	1.75	1.81	1.76	1.56	1.68	1.56	1.64	1.30	1.43	1.30	1.70
Morgan	3.94	4.79	4.18	3.69	3.88	3.70	3.63	2.11	3.42	3.09	3.14
Rich	9.50	--	3.20	2.18	4.27	3.44	3.80	3.08	1.30	1.97	2.89
Summit	3.17	3.57	2.60	1.70	3.15	5.00	2.77	2.03	2.65	2.21	2.73
Weber	2.25	2.33	2.45	1.68	2.12	1.98	1.59	1.67	1.36	1.53	1.78
<u>Regional Totals</u>	<u>3.32</u>	<u>3.57</u>	<u>3.30</u>	<u>2.59</u>	<u>2.84</u>	<u>2.77</u>	<u>2.53</u>	<u>2.23</u>	<u>2.53</u>	<u>2.14</u>	<u>2.89</u>
<u>Central</u>											
Juab	5.86	5.67	6.21	5.05	4.88	5.89	5.06	3.83	5.38	3.62	5.30
Salt Lake	2.42	2.75	3.14	2.29	2.26	2.18	2.03	1.81	2.36	1.88	2.35
Sanpete	3.00	5.25	3.03	2.82	3.14	3.64	3.90	2.04	2.50	3.65	2.65
Tooele	3.70	3.39	3.78	3.23	3.33	3.76	2.98	2.38	2.58	2.80	3.70
Utah	3.27	3.27	3.32	2.92	3.10	3.41	2.71	2.24	2.78	2.66	2.50
Wasatch	3.90	2.71	4.48	4.11	1.49	2.41	1.75	1.48	2.12	2.00	3.12
<u>Regional Totals</u>	<u>3.18</u>	<u>3.39</u>	<u>3.70</u>	<u>3.03</u>	<u>3.07</u>	<u>3.16</u>	<u>2.75</u>	<u>2.31</u>	<u>2.90</u>	<u>2.70</u>	<u>2.98</u>
<u>Southern</u>											
Beaver	4.78	3.96	4.55	4.85	5.65	4.28	4.00	4.71	4.31	2.94	5.37
Garfield	2.44	1.20	3.61	1.60	3.11	1.33	3.25	4.93	6.03	1.79	5.35
Iron	4.83	4.55	3.59	4.97	2.91	3.72	3.41	3.35	3.96	4.65	4.09
Kane	8.04	5.00	5.86	1.64	3.60	3.00	3.53	2.60	4.98	2.83	4.92
Millard	4.90	5.35	4.41	4.81	3.84	5.83	4.45	3.84	4.63	5.14	4.73
Piute	3.64	2.00	6.78	0.55	2.16	7.67	3.60	3.54	2.00	2.00	3.30
Sevier	1.93	2.79	1.99	2.31	3.20	2.95	3.32	2.44	3.22	2.83	3.67
Washington	4.17	4.02	4.21	2.71	4.04	4.38	3.87	3.33	3.92	3.85	5.05
Wayne	5.69	10.00	0.47	2.50	--	2.58	3.00	2.50	6.74	2.83	4.10
<u>Regional Totals</u>	<u>4.15</u>	<u>4.10</u>	<u>3.75</u>	<u>3.56</u>	<u>3.55</u>	<u>4.15</u>	<u>3.79</u>	<u>3.42</u>	<u>4.15</u>	<u>3.82</u>	<u>4.36</u>
<u>Northeastern</u>											
Daggett	2.75	--	3.69	4.00	1.67	7.30	5.86	2.70	0.82	2.12	4.63
Duchesne	2.00	3.73	2.00	1.12	2.67	4.54	3.00	4.91	4.73	2.80	3.55
Uintah	4.13	3.59	2.37	2.62	2.21	3.05	2.30	1.58	2.97	1.78	3.03
<u>Regional Totals</u>	<u>3.77</u>	<u>3.62</u>	<u>2.42</u>	<u>2.10</u>	<u>2.26</u>	<u>3.70</u>	<u>2.60</u>	<u>2.39</u>	<u>3.04</u>	<u>2.05</u>	<u>3.21</u>
<u>Southeastern</u>											
Carbon	2.37	2.87	2.56	3.17	3.56	2.26	0.89	2.95	3.65	2.55	2.87
Emery	1.58	2.89	4.68	3.69	2.81	1.28	2.39	2.68	2.66	1.86	1.93
Grand	2.82	2.00	4.00	3.67	3.71	5.79	2.71	3.14	3.84	3.62	3.68
San Juan	3.88	5.60	4.65	7.00	3.27	2.29	3.15	3.94	4.36	4.22	3.21
<u>Regional Totals</u>	<u>2.48</u>	<u>3.08</u>	<u>3.76</u>	<u>3.81</u>	<u>3.24</u>	<u>2.38</u>	<u>1.93</u>	<u>3.15</u>	<u>3.61</u>	<u>2.49</u>	<u>2.73</u>
Unknown counties	2.18	1.84	3.28	2.88	--	4.55	2.49	2.90	2.58	3.55	4.18
Mixed counties	3.76	--	3.88	1.00	--	0.00	--	10.00	0.00	3.00	--
<u>STATE TOTALS</u>	<u>3.36</u>	<u>3.51</u>	<u>3.56</u>	<u>2.96</u>	<u>3.07</u>	<u>3.14</u>	<u>2.79</u>	<u>2.53</u>	<u>3.14</u>	<u>2.71</u>	<u>3.20</u>

Table 5. Distribution of mourning dove harvest by region and county, 1970-75.

Region and County	1970	1971	1972	1973	1974	1975
Northern						
Box Elder	10.11	9.99	10.11	7.85	9.09	9.86
Cache	5.42	4.13	4.08	3.29	3.68	3.50
Davis	3.31	2.62	1.69	1.80	2.62	1.68
Morgan	1.77	0.92	1.24	1.27	1.57	1.02
Rich	0.49	0.72	0.38	0.08	0.47	0.30
Summit	0.71	0.68	0.75	0.61	0.40	0.35
Weber	3.52	4.61	5.05	2.03	4.00	3.74
REGIONAL TOTALS	25.32	23.68	23.31	16.93	21.83	20.43
Central						
Juab	6.56	8.07	8.16	8.58	8.30	9.64
Salt Lake	12.04	11.08	8.83	7.95	6.51	8.02
Sanpete	3.63	2.65	2.13	2.51	3.61	2.10
Tooele	5.51	8.51	5.99	6.07	5.06	6.83
Utah	17.46	17.46	16.48	14.30	19.26	16.31
Wasatch	0.72	1.69	0.38	1.11	0.53	0.83
REGIONAL TOTALS	45.93	49.45	41.97	40.52	43.26	43.73
Southern						
Beaver	1.21	1.85	3.45	2.26	1.15	2.03
Garfield	0.04	0.61	0.70	1.08	0.52	0.64
Iron	4.57	2.76	3.09	5.63	3.87	3.96
Kane	0.03	0.50	0.12	1.35	0.51	0.49
Millard	6.23	5.71	4.70	8.04	8.68	5.30
Piute	0.20	0.17	0.87	0.31	0.22	0.42
Sevier	3.02	3.57	3.71	3.26	4.57	6.07
Washington	1.32	3.43	4.02	3.63	3.87	4.31
Wayne	0.27	0.17	0.09	0.79	0.11	0.66
REGIONAL TOTALS	16.88	18.77	20.76	26.37	23.48	23.89
Northeastern						
Daggett	0.64	0.39	0.26	0.20	0.11	0.34
Duchesne	0.52	0.42	1.54	1.61	1.06	1.00
Uintah	1.97	2.04	1.59	1.85	1.87	3.35
REGIONAL TOTALS	3.14	2.85	3.38	3.66	3.03	4.69
Southeastern						
Carbon	2.85	0.64	2.75	3.47	1.56	2.22
Emery	0.93	0.81	1.20	2.02	2.12	1.60
Grand	1.69	0.72	1.73	2.51	0.65	1.12
San Juan	1.13	0.98	1.95	3.18	1.20	1.70
REGIONAL TOTALS	6.60	3.15	7.62	11.18	5.54	6.64
Unknown counties	2.13	2.09	2.48	1.34	2.66	0.61
Mixed counties	0.00	--	0.47	0.00	0.19	--
STATE TOTALS	100	100	100	100	100	100

Table 6. Distribution of mourning dove hunting pressure by region and county, 1970-75.

Region and County	1970	1971	1972	1973	1974	1975
<u>Northern</u>						
Box Elder	8.83	7.23	8.11	5.80	7.37	6.65
Cache	5.22	4.39	4.65	4.50	5.20	4.28
Davis	6.66	4.45	3.30	3.96	5.46	3.17
Morgan	1.50	0.71	1.49	1.16	1.38	1.04
Rich	0.44	0.53	0.31	0.19	0.64	0.33
Summit	0.44	0.68	0.94	0.72	0.49	0.41
Weber	5.58	8.08	7.68	4.70	7.10	6.73
REGIONAL TOTALS	28.68	26.07	26.48	21.03	27.63	22.60
<u>Central</u>						
Juab	3.50	4.45	5.39	5.01	6.20	5.82
Salt Lake	17.38	15.23	12.37	10.59	9.38	10.91
Sanpete	3.14	1.89	2.65	3.16	2.67	2.53
Tooele	4.61	7.97	6.38	7.37	4.89	5.90
Utah	16.10	17.94	18.66	16.12	19.61	20.89
Wasatch	0.94	2.68	0.65	1.65	0.72	0.85
REGIONAL TOTALS	45.67	50.17	46.10	43.91	43.48	46.90
<u>Southern</u>						
Beaver	0.89	1.29	1.86	1.65	1.06	1.21
Garfield	0.08	0.53	0.36	0.56	0.79	0.38
Iron	3.86	2.26	2.34	4.46	2.25	3.10
Kane	0.03	0.39	0.12	0.85	0.49	0.32
Millard	3.36	3.58	3.11	5.45	4.57	3.59
Piute	0.08	0.13	0.63	0.49	0.30	0.41
Sevier	3.22	3.00	3.85	3.18	4.37	5.29
Washington	0.94	2.47	3.06	2.91	2.72	2.73
Wayne	0.33	0.16	0.10	0.37	0.10	0.52
REGIONAL TOTALS	12.80	13.81	15.41	19.93	16.66	17.56
<u>Northeastern</u>						
Daggett	0.28	0.18	0.24	0.76	0.13	0.23
Duchesne	0.36	0.39	0.79	1.07	1.03	0.90
Uintah	2.03	2.47	2.55	1.96	2.84	3.54
REGIONAL TOTALS	2.67	3.05	3.59	3.78	4.00	4.67
<u>Southeastern</u>						
Carbon	3.97	2.00	2.36	2.99	1.66	2.47
Emery	2.28	0.95	1.13	2.39	3.09	2.65
Grand	0.92	0.74	1.40	2.06	0.49	0.98
San Juan	1.55	0.87	1.25	2.29	0.77	1.69
REGIONAL TOTALS	8.72	4.55	6.14	9.72	6.02	7.79
Unknown counties	1.47	2.34	2.17	1.63	2.03	0.47
Mixed counties	0.00	--	0.12	0.00	0.17	--
STATE TOTALS	100	100	100	100	100	100

Table 7. State-wide summary of mourning dove harvest statistics, 1951-75.

Year	Total Hunters	Total Harvest	Hunter-Days Afield	Doves per Hunter Day	Doves per Hunter
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
1973	27,435	307,062	97,788	3.14	11.19
1974	34,021	306,076	112,967	2.71	9.00
1975	37,378	420,308	131,312	3.20	11.24
TOTALS 1951-1975	462,132	4,276,927	1,379,523	3.10	9.25
AVERAGES 1951-1974	17,698	160,692	52,009	3.75	8.78

*Estimated

Table 8. Mourning dove field bag check summary, 1975.

Region and County	ALL HUNTS				COMPLETE HUNTS				Birds/ 100 hrs. Hunter	
	Total Parties	Total Hunters	Total Hours	Total Birds	Total Hunts	Total Hunters	Total Hours	Total Birds		
Northern										
Box Elder	206	544	2,246	2,701	178	459	2,011	2,453	122	5.34
Cache	26	59	132	100	2	7	9	6	67	1.69*
Davis	39	96	291	268	38	92	279	266	95	2.89
Morgan	8	23	72	122	8	23	72	122	169	5.30
Rich	--	--	--	--	--	--	--	--	--	--
Summit	--	--	--	--	--	--	--	--	--	--
Weber	23	46	90	31	2	6	12	2	17	0.67*
REGIONAL TOTALS	302	768	2,831	3,222	228	587	2,383	2,849	120	4.85
Central										
Juab	37	101	245	435	6	17	63	128	203	7.53
Salt Lake	85	197	374	290	27	67	118	108	92	1.61
Sanpete	--	--	--	--	--	--	--	--	--	--
Tooele	41	103	239	260	4	11	42	75	179	6.82
Utah	80	209	490	418	23	55	168	191	114	3.47
Wasatch	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	243	610	1,348	1,403	60	150	391	502	128	3.35
Southern										
Beaver	14	37	90	163	2	4	13	40	308	4.40*
Garfield	18	37	81	133	16	30	69	120	174	4.00
Iron	7	19	46	94	1	2	6	20	333	4.95*
Kane	--	--	--	--	--	--	--	--	--	--
Millard	69	214	762	1,079	24	70	271	469	173	6.70
Piute	--	--	--	--	--	--	--	--	--	--
Sevier	19	42	94	114	4	10	36	53	147	5.30
Washington	--	--	--	--	--	--	--	--	--	--
Wayne	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	127	349	1,073	1,583	47	116	395	702	178	6.05
Northeastern										
Daggett	4	9	17	2	1	2	4	0	0	0.00
Duchesne	16	32	55	146	11	23	47	126	268	5.48
Uintah	21	55	132	221	5	10	33	76	230	7.60
REGIONAL TOTALS	41	96	204	369	17	35	84	202	240	5.77
Southeastern										
Carbon	4	8	16	41	1	2	8	14	175	7.00
Emery	28	62	128	208	9	19	41	77	188	4.05
Grand	15	26	64	120	11	20	52	115	221	5.75
San Juan	18	47	128	239	13	38	114	193	169	5.08
REGIONAL TOTALS	65	143	336	608	34	79	215	399	186	5.05
STATE TOTALS	778	1,966	5,792	7,185	386	967	3,468	4,654	134	4.81

*Based on all hunts

Table 9. Mourning dove hunter success trend determined by field bag checks, 1971-75.

Region and County	1971		1972		1973		1974		1975	
	Doves/ 100 hrs. Hunter	Doves/ 100 hrs. Hunter	Doves/ 100 hrs. Hunter	Doves/ 100 hrs. Hunter	Doves/ 100 hrs. Hunter	Doves/ 100 hrs. Hunter	Doves/ 100 hrs. Hunter	Doves/ 100 hrs. Hunter	Doves/ 100 hrs. Hunter	Doves/ 100 hrs. Hunter
Northern										
Box Elder	70	3.43	84	3.43	85	3.41	77	3.74	120	5.34
Cache	106	7.00	79	1.88	33	1.00	25	1.12	76	1.69*
Davis	--	--	--	--	30	0.33	7	0.18	92	2.01
Morgan	131	3.70	45	1.20	--	--	--	--	169	5.30
Rich	67	3.00	39	0.85	55	0.80	--	--	--	--
Summit	12	0.43	--	--	--	--	--	--	--	--
Weber	33	0.37	108	2.26	83	3.50	38	1.59	34	0.67*
REGIONAL TOTALS	71	3.22	84	3.20	83	3.37	72	3.40	114	4.85
Central										
Juab	83	3.00	135	3.83	119	10.00	171	3.95*	178	7.53
Salt Lake	71	1.36	47	1.53	57	1.16	27	0.32	78	1.61
Sanpete	22	0.82	167	3.17	47	1.94	49	0.63	--	--
Tooele	61	0.78	41	2.72	83	7.15	85	3.33	109	6.82
Utah	111	5.27	82	1.38	105	3.89	45	1.06	85	3.47
Wasatch	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	70	1.58	73	1.95	80	2.51	58	0.90	104	3.35
Southern										
Beaver	88	--	81	1.30	150	4.50	114	6.56	181	4.40*
Garfield	--	--	--	--	150	1.50	100	10.00	164	4.00
Iron	205	5.36	300	6.60	249	7.67	--	--	204	4.95*
Kane	--	--	233	3.00	220	6.67	352	6.75	--	--
Millard	119	6.33	108	3.16	88	4.29	109	7.08	142	6.70
Piute	92	--	--	--	200	0.66	86	1.50	--	--
Sevier	133	5.33	76	0.80	105	5.57	151	3.32*	121	5.30
Washington	--	--	175	3.50	42	0.72	--	--	--	--
Wayne	--	--	93	3.50	88	1.75	100	--	--	--
REGIONAL TOTALS	124	5.86	118	4.45	119	5.19	120	6.71	148	6.05
Northeastern										
Daggett	152	4.20	94	2.03	20	0.75	5	0.40	12	0.00
Duchesne	--	--	69	1.85	238	6.76	98	3.92	265	5.48
Uintah	147	3.29	149	3.26	179	7.11	135	4.23	167	7.60
REGIONAL TOTALS	150	3.78	122	2.74	162	4.95	104	3.65	181	5.77
Southeastern										
Carbon	--	--	--	--	92	1.00	--	--	256	7.00
Emery	207	--	--	--	147	1.87	--	--	162	4.05
Grand	--	--	--	--	--	--	--	--	188	5.75
San Juan	--	--	--	--	--	--	185	6.32	187	5.08
REGIONAL TOTALS	207	--	--	--	126	1.00	185	6.32	181	5.05
STATE TOTALS	82	3.07	86	3.03	92	3.51	81	3.51	124	4.81

*Doves per hunter index based on all hunts.

Table 10. Summary of preseason mourning dove banding in Utah during 1975.

Region and County	Adult		Total	Young	Total	Juveniles per 100 Adults
	Male	Female				
<u>Northern</u>						
Box Elder	--	--	--	--	--	--
Cache	--	--	--	--	--	--
Davis	--	--	--	--	--	--
Morgan	25	12	37	28	65	76
Rich	--	--	--	--	--	--
Summit	--	--	--	--	--	--
Weber	--	--	--	--	--	--
REGIONAL TOTALS	25	12	37	28	65	76
<u>Central</u>						
Juab	86	67	153	137	290	90
Salt Lake	--	--	--	--	--	--
Sanpete	--	--	--	--	--	--
Tooele	57	56	113	138	251	122
Utah	--	--	--	--	--	--
Wasatch	--	--	--	--	--	--
REGIONAL TOTALS	143	123	266	275	541	103
<u>Southern</u>						
Beaver	--	--	--	--	--	--
Garfield	26	15	41	5	46	12
Iron	26	21	47	70	117	149
Kane	--	--	66*	115	181	174
Millard	63	62	125	197	322	158
Piute	3	0	3	3	6	100
Sevier	129	70	199	30	229	15
Washington	116	42	158	87	245	550
Wayne	11	2	13	5	18	38
REGIONAL TOTALS	374	212	652	512	1164	79
<u>Northeastern</u>						
Daggett	39	29	68	0	68	0
Duchesne	36	44	80	34	114	43
Uintah	--	--	95*	0	95	0
REGIONAL TOTALS	75	73	243	34	277	14
<u>Southeastern</u>						
Carbon	--	--	--	--	--	--
Emery	74	33	107	118	225	110
Grand	1	0	1	0	1	0
San Juan	359	11	370	45	415	12
REGIONAL TOTALS	434	44	478	163	641	34
STATE TOTALS	1051	464	1676	1012	2688	60

*Unclassified sex

Table 11. Summary of mourning doves banded in Utah, 1971-75.

Region and County	1971		1972		1973		1974		1975		Totals 1961-74				
	Imm.	Adult Total	Imm.	Adult Total	Imm.	Adult Total	Imm.	Adult Total	Imm.	Adult Total	Imm.	Adult Total			
Northern															
Box Elder	--	--	2	5	7	--	--	16	22	38	--	--	1011	2444	3455
Cache	--	--	--	--	--	--	--	--	--	--	--	--	30	39	69
Davis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Morgan	22	20	45*	--	--	--	--	59	12	71	28	37	65	81	32
Rich	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Summit	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Weber	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	22	20	45*	5	7	--	--	75	34	109	28	37	65	1122	2515
Central															
Juab	64	53	117	71	151	229*	--	91	297	388	137	153	290	1678	2856
Salt Lake	--	--	--	--	--	--	--	--	--	--	--	--	--	47	214
Sanpete	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tooele	85	370	455	60	158	218	27	57	84	487	138	113	251	1400	2437
Utah	--	--	--	--	--	--	--	--	--	--	--	--	--	61	155
Wasatch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	149	423	572	131	309	447*	27	57	84	249	275	266	541	3186	5662
Southern															
Beaver	--	--	--	--	--	--	6	4	10	84	--	--	--	34	92
Garfield	--	--	--	--	--	--	--	--	--	--	5	41	46	--	--
Iron	113	1	114	125	124	249	4	13	4	49	70	47	117	434	210
Kane	--	--	--	--	--	--	206	17	223	--	115	66	181	292	85
Millard	38	13	51	15	12	27	1	88	128	216	197	125	322	392	641
Piute	166	211	377	75	15	90	--	--	--	--	3	3	6	545	665
Sevier	2	0	2	--	--	--	--	--	--	--	30	199	299	4	26
Washington	41	2	43	37	17	55*	136	84	220	300	87	158	245	365	1250
Wayne	--	--	--	--	--	--	--	28	54	82	5	13	18	32	62
REGIONAL TOTALS	360	227	587	252	168	421*	353	161	514	731	512	652	1164	2138	2991
Northeastern															
Daggett	7	28	35	39	60	99	0	137	137	159	0	68	68	54	389
Duchesne	7	64	71	15	128	143	1	2	3	71	108	34	80	114	64
Uintah	49	123	172	9	85	94	--	48	247	295	0	95	95	416	1414
REGIONAL TOTALS	63	215	278	63	273	336	1	139	140	562	34	243	277	534	2094
Southeastern															
Carbon	--	--	--	--	--	--	--	58	42	100	--	--	--	66	46
Emery	--	--	--	--	--	--	--	153	76	229	118	107	225	192	90
Grand	--	--	--	--	--	--	--	--	--	--	0	1	1	52	17
San Juan	37	52	89	73	129	202	7	10	17	289	45	370	415	735	323
REGIONAL TOTALS	37	52	89	73	129	202	7	10	17	712	163	478	641	1045	476
STATE TOTALS	631	937	1571	521	884	1413	388	367	755	2989	1012	1676	2688	8025	13738

*Includes some unclassified birds.

Table 12. Summary of mourning dove band recovery rates for the period 1949-73.

Time Period	Doves Banded	Number of Recoveries		Recovery Rates	
		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
1972	1,413	5	--	.004	--
1973	755	5	--	.007	--
<hr/>					
TOTALS 1964-73	14,439	184	314***	.013	.026
<hr/>					
GRAND TOTALS	18,440	227	424***	.012	.026

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

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

***Total recoveries updated through 1971 only.

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

State and Country of Recovery	Recoveries as of August, 1970	(Percent)	Recoveries During 1970 and 1971*	Total 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)	0	2	(0.3)
Oregon	2	(0.3)	0	2	(0.3)
Colorado	2	(0.3)	0	2	(0.3)
Nevada	1	(0.2)	0	1	(0.1)
Iowa	1	(0.2)	0	1	(0.1)
States Other Than Utah	73	(11.0)	19	92	(13.0)
United States Total	613	(92.3)	34	647	(91.6)
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.

<u>State Where Banded</u>	<u>Number of Returns</u>
Arizona	14
Idaho	7
Washington	4
Nevada	3
Texas	2
Oregon	<u>1</u>
Total Recoveries and Returns of Doves Banded In Other States:	31

BAND-TAILED PIGEON

In 1970, Utah initiated a band-tailed pigeon investigation in conjunction with Arizona, Colorado and New Mexico. This Four-Corners study continued through 1972. Results of that research were published in 1975 (The Band-tailed Pigeon in Utah by Jordan C. Pederson and Darrell H. Nish, Utah State Division of Wildlife Resources Publication Number 75-1, 75pp.) Because of the experimental nature of this work, results have not been included in this annual report but have been compiled in separate Federal Aid reports. This section has now been incorporated and includes management data being compiled on a continuing basis.

Banding

Band-tailed pigeons have been banded in Utah since 1969. Results of banding efforts in 1975 are summarized in Table 15 and State totals since 1969 in Table 16.

During 1975, 285 pigeons were banded. An additional 118 previously banded pigeons were recaptured. Since 1969, 2,011 total pigeons have been banded in Utah and 715 recaptured. Results of banding efforts through 1972 indicated a direct recovery rate of 1.4 percent (Pederson and Nish, op. cit.) If expanded using an assumed 30 percent band reporting rate, an estimated harvest rate of less than 5 percent of the State's pigeon population is indicated. Inclusion of an estimated 16 percent (Pederson and Nish, op. cit.) crippling loss would result in a total kill rate of from 5-10 percent; well within the harvestable surplus.

Harvest

The experimental season of 1970 was the first band-tailed pigeon season established in Utah. In order to hunt during that and subsequent seasons sportsmen have been required to obtain a free band-tailed pigeon hunting permit. This enabled the compilation of annual harvest statistics.

Band-tailed pigeon seasons to date have been characterized by extremely low hunter participation. Results of the 1975 harvest questionnaire are shown in Table 17 and harvest trends since 1970 in Table 18. A comparison of the 1975 season to 1974 and the average follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Band-tailed pigeon hunters	54	-14	-10
Band-tailed pigeon harvest	116	+43	+ 2
Hunter-days afield	119	- 1	+35
Pigeons per hunter-day	0.97	+42	-24
Pigeons per hunter	2.20	+71	- 4

Total hunters decreased from 1974 and was below average. Total harvest increased over 1974 to slightly above average due to increased hunter success. Most of the 1975 harvest occurred on Blue Mountain and in Kane County. Hunter success was highest in Kane County.

Table 15. Results of band-tailed pigeon banding efforts in Utah during 1975.

Area	Time Period	Adults		Total Pigeons	Immatures/100 adults	Total Recapture
		Males	Females			
Monticello, San Juan County	May 13-June 28	92	31	123	0	123
	July 5-20	110	39	149	13	162
STATE TOTALS		202	70	272	13	285

*Includes repeats and returns.

Table 16. Band-tailed pigeon banding trends for Utah, 1969-75.

Year	Adults		Total Pigeons	Immatures/100 Adults	Total Recaptures
	Males	Females			
1969	147	51	198	39	237
1970	254	94	348	54	402
1971	110	52	162	79	241
1972	284	117	401	4	405
1973	263	54	317	14	331
1974	87	12	99	11	110
1975	202	70	272	13	285
Totals	1,347	450	1,797	214	2,011

*Includes repeats and returns.

Table 17. Band-tailed pigeon harvest statistics, 1975.

Area Hunted	Hunters		Hunter		Pigeons/		Percent of	
	Hunters	Days	Harvest	Day	hunter	Pressure*	Harvest	Harvest
LaSal Mountain	10	22	8	0.36	0.80	18.5	6.9	6.9
Blue Mountain-Elk Ridge	20	54	55	1.02	2.75	45.4	47.4	47.4
Iron County	8	15	0	0.00	0.00	12.6	0.0	0.0
Kane County	5	9	38	4.22	7.60	7.6	32.8	32.8
Washington County	8	13	14	1.08	1.75	10.9	12.1	12.1
Wayne County	3	6	1	0.17	0.33	5.0	0.9	0.9
Totals	54	119	116	0.97	2.20	100	100	100

*Based on hunter-days

Table 18. Band-tailed pigeon harvest trend, 1970-75.

Year	Total		Hunter-		Pigeons per	
	Hunters	Harvest	Days	Afield	Hunter Day	Hunter
1970	34	109	53		2.06	3.21
1971	54	156	110		1.42	2.89
1972	61	211	122		1.74	3.46
1973	24	15	33		0.45	0.62
1974	63	81	120		0.68	1.29
1975	54	116	119		0.97	2.20
Totals	353	688	557		1.24	1.95
Averages	60	114	88		1.27	2.29

CHUKAR PARTRIDGE

SUMMARY

The breeding population for 1975 was estimated to be slightly lower than 1974 based on 1974 harvest statistics. Late winter and early spring moisture was above average but this favorable condition for production may have been offset by the unusually cold, late spring.

Effort on brood counts increased slightly on a statewide basis but decreased in all but the Northeastern Region. This, plus relatively moist range conditions and expected less concentration of chukars around water, resulted in fewer chukars counted.

The young-per-adult index was less than 1974 but slightly above average while the average brood size was well below both 1974 and the average. Average or better production was indicated for both the Southeastern and Northern regions. Relatively high fall populations were predicted for those areas with decreased abundance indicated for other areas.

The total harvest of chukars decreased slightly from both 1974 and the average due to decreased hunter success. Total hunters dropped slightly but hunter-days increased. Hunter success was highest in the Southeastern and Northern regions.



Brood Counts

Results of the annual random brood survey for 1975 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 1975 compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Total chukars observed	906	-31	-39
Young per 100 adults	443	-9	+4
Mean brood size	7.12	-29	-22
Chukars observed per 100 hours	303	-35	-24
Total hours effort	299	+8	-21

The decreased harvest and hunter success of 1974 suggested a reduced breeding population for 1975 on a statewide basis. A marked increase was evident in the Southeastern Region but this was offset by declines in the Central and Southern regions. Late winter and early spring (January-April) moisture increased over 1974 to above the 1962-74 average.

Effort on chukar brood counts decreased in all but the Northeastern Region. Total sample decreased. Production (young per adult) was slightly below 1974 but still a little above average. The average brood size was below both 1974 and the average. Best production occurred in the Northern and Southeastern regions.

Good fall populations were predicted for the Northern and Southeastern regions with below average populations in other areas.

Harvest

Hunter Questionnaire

Results of the hunter questionnaire survey for 1975 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 statewide harvest statistics in Table 9. Following is a comparison of 1975 harvest statistics to 1974 and the average.

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Chukar hunters	16,156	-2	+2
Chukars harvested	41,151	-8	-5
Hunter-days afield	51,083	+5	+13
Chukars per hunter-day	0.81	-11	-11
Chukars per hunter	2.57	-6	+5

Total hunters decreased slightly from 1974 to near average while total hunter-days increased. The total harvest of chukars decreased as a result of decreased hunter success statewide.

Hunter success increased in the Southern, Southeastern and Northeastern regions and decreased in other areas. Hunting was particularly good in Grand and Emery counties. The proportion of the statewide harvest in the Southeastern Region was three times as great as during 1974.

Long-term trends of chukar harvest statistics are shown in Figure 1.

Field Bag Checks

A summary of field-bag-check data for 1975 is shown in Table 10. The hunter success trend determined via bag check since 1970 is shown in Table 11. Data for the 1975 season compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Total hunters checked	542	+28	-23
Total hours hunted	2,100	+5	-37
Chukars per hunter (complete hunts)	0.95	-41	-19
Chukars bagged per 100 hours	24	-11	0
Average hours per hunter-day (complete hunts)	4.3	-20	-12
Hours hunted per chukar bagged	4.5	+32	-2

The field bag check sample size improved over 1974 but was still well below average and restricted to only a few counties. Hunter success shown by this survey was lower than both 1974 and the average.

Hours spent afield per day were less than both 1974 and the average. More time was required for each chukar bagged than in 1974 but slightly less than average.

Chukars bagged per hunter and per hunter-day.

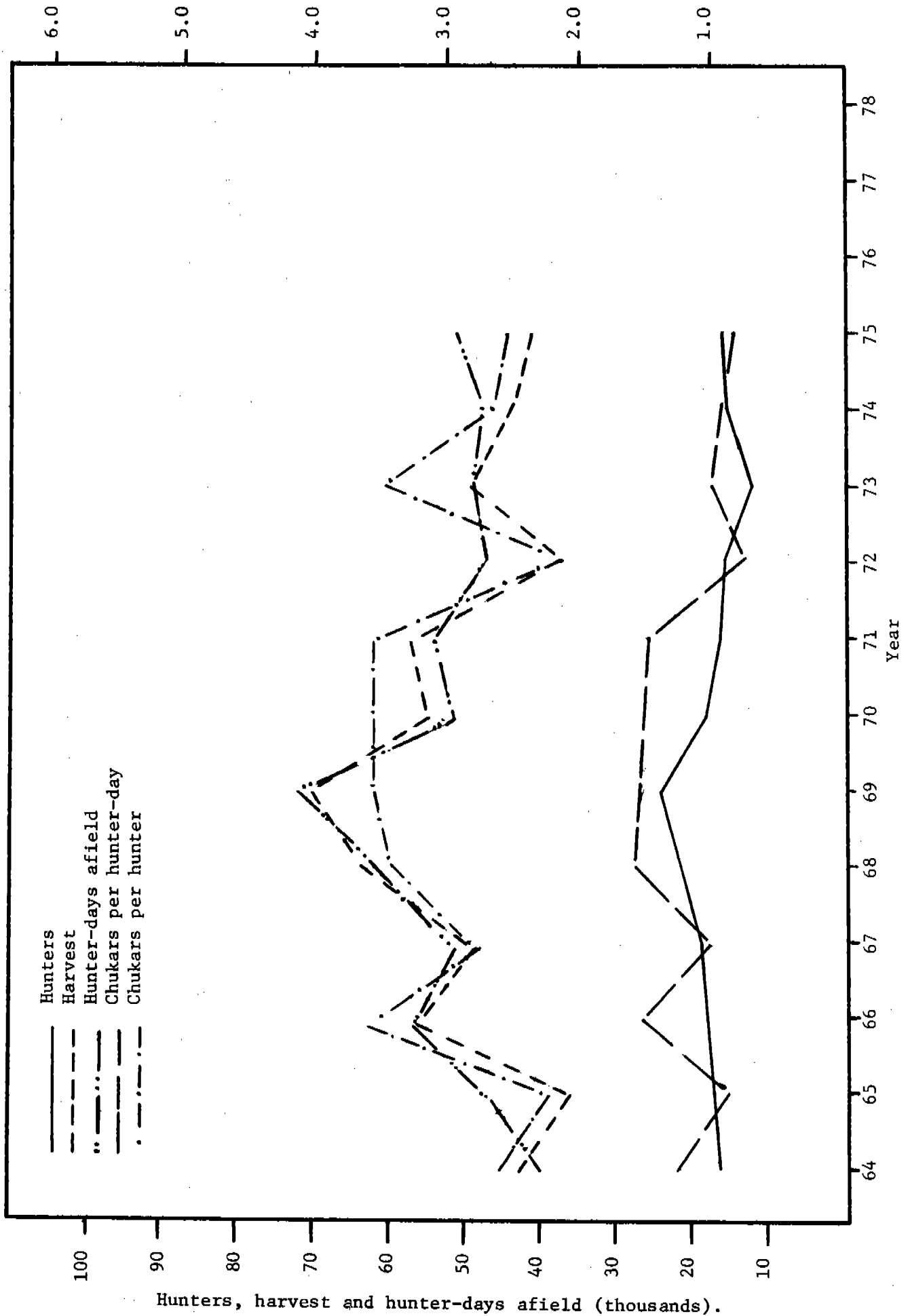


Figure 1. Statewide trends of chukar partridge harvest statistics.

Hunters, harvest and hunter-days afield (thousands).

Table 1. Chukar summer inventory summary, 1975.

Region and County	Distinct Broods		Mean		Mixed Yng. & Adults		Total Yng. Adults	Total Yng. 100 Ad.	Vehicle Miles	Hours Effort		Birds/100 hrs.			
	No. Ad.	Yng.	Brood	Ad.	Yng.	w/o Yng.				Veh.	Horse		Walk	Total	
Northern															
Box Elder	1	11	11.00	15	149	3	19	160	842	73	8	12	0	20	895
Cache	0	0	--	2	11	0	2	11	550	115	10	0	0	10	130
Davis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Morgan	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rich	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Summit	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Weber	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Regional Totals	1	11	11.00	17	160	3	21	171	814	188	18	12	0	30	640
Central															
Juab	3	5	8.67	3	14	0	8	40	500	228	15	0	6	21	229
Salt Lake	0	0	--	0	0	1	1	0	0	13	0	0	4	4	25
Sanpete	0	0	--	0	0	0	0	0	--	128	11	0	5	16	0
Tooele	3	3	9.00	11	47	14	28	74	264	375	26	0	9	35	291
Utah	0	0	--	0	0	0	0	0	--	64	9	0	0	9	0
Wasatch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Regional Totals	6	8	8.83	14	61	15	37	114	308	808	61	0	24	85	178
Southern															
Beaver	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Garfield	0	0	--	0	0	0	0	0	--	194	6	0	3	9	0
Iron	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Kane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Millard	1	1	3.00	0	0	5	6	3	50	558	22	0	3	25	36
Piute	1	1	5.00	0	0	0	1	5	500	100	4	0	0	4	150
Sevier	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Wayne	0	0	--	0	0	0	0	0	--	40	2	0	1	3	0
Regional Totals	2	2	4.00	0	0	5	7	8	114	892	34	0	7	41	37
Northeastern															
Daggett	0	0	--	0	0	0	0	0	--	288	24	0	0	24	0
Duchesne	0	0	--	0	0	0	0	0	--	310	16	20	0	36	0
Uintah	0	0	--	0	0	0	0	0	--	310	28	0	0	28	0
Regional Totals	0	0	--	0	0	0	0	0	--	908	68	20	0	88	0
Southeastern															
Carbon	1	1	9.00	2	10	0	3	19	633	14	0	0	2	2	1,100
Emery	1	1	12.00	3	10	2	6	22	367	330	12	0	0	12	233
Grand	2	2	4.00	52	226	8	62	234	377	136	13	0	0	13	2,277
San Juan	3	3	4.33	19	158	9	31	171	552	306	8	12	8	28	721
Regional Totals	7	7	6.00	76	404	19	102	446	437	786	33	12	10	55	996
STATE TOTALS	16	18	114	107	625	42	167	739	443	3,582	214	44	41	299	303

Table 2. Trend of chukar young per 100 adults ratios, 1962-75.

Region and County	Year														Averages 1962-74
	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	
Northern Region															
Box Elder	--	214	535	410	416	360	455	600	247	529	492	760	663	842	
Cache	--	467	625	700	317	220	--	1011	250	258	--	488	750	550	
Davis	--	--	--	0	500	0	--	1100	--	--	--	--	--	--	
Morgan	--	933	600	135	680	88	315	668	178	950	--	--	--	--	
Rich	--	480	950	--	--	--	--	--	--	--	--	--	--	--	
Summit	--	--	--	254	--	350	--	--	525	--	--	--	--	--	
Weber	--	1200	--	--	600	--	--	91	--	286	--	--	--	--	
Regional Totals	--	350	574	210	429	276	420	510	267	382	475	639	684	814	
Central Region															
Juab	900	26	300	--	--	475	450	607	421	594	420	725	350	500	
Salt Lake	608	208	670	--	--	671	409	372	0	367	--	0	--	0	
Sanpete	765	758	375	--	--	368	400	194	256	171	216	0	--	--	
Tooele	1267	628	--	--	--	--	1733	1360	922	372	154	410	356	264	
Utah	860	300	405	--	--	--	240	463	360	352	552	335	96	--	
Wasatch	--	--	480	--	--	--	--	767	--	--	--	--	--	--	
Regional Totals	729	201	473	643	638	445	407	496	471	386	208	364	300	308	
Southern Region															
Beaver	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Garfield	183	530	500	160	--	--	--	--	495	275	--	--	--	--	
Iron	--	--	--	--	--	500	--	--	--	--	--	--	--	--	
Kane	512	320	--	--	--	--	--	--	--	--	--	--	--	--	
Millard	1038	390	--	770	514	--	1108	812	700	255	66	--	--	50	
Piute	600	650	600	--	--	--	--	--	--	550	500	--	--	500	
Sevier	1425	179	857	1350	833	--	--	--	--	--	800	--	0	--	
Washington	--	660	--	--	817	315	--	--	--	--	--	--	--	--	
Wayne	1036	619	364	0	--	--	--	--	--	67	--	--	--	--	
Regional Totals	643	392	548	462	608	315	1108	812	581	245	131	--	0	114	
Northeastern Region															
Daggett	182	--	--	--	1056	436	709	1250	150	--	--	--	--	--	
Duchesne	833	--	--	833	--	0	515	548	--	120	--	--	--	--	
Uintah	--	--	--	600	1273	1075	482	463	450	678	--	--	733	--	
Regional Totals	235	--	--	654	1217	485	540	575	279	479	--	--	733	577	
Southeastern Region															
Carbon	--	--	--	50	--	--	1000	--	383	474	372	650	794	633	
Emery	264	--	722	300	1100	317	--	--	900	--	--	725	842	367	
Grand	--	--	--	825	539	367	1000	--	446	205	274	871	656	377	
San Juan	151	--	400	375	678	57	590	138	234	161	317	500	650	552	
Regional Totals	169	--	655	389	604	269	635	138	338	226	324	712	717	437	
STATE TOTALS	434	292	571	338	638	306	523	511	382	311	235	519	487	443	

Table 3. Trend of chukar mean brood size from 1963-75.

Region and County	Year													Averages 1963-74
	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	
Northern														
Box Elder	--	--	--	--	7.53	10.09	8.00	10.59	6.17	13.23	13.00	11.00	11.00	
Cache	--	--	--	--	8.00	--	12.00	10.00	3.43	--	13.00	7.00	--	
Davis	--	--	--	--	--	--	10.50	--	--	--	--	--	--	
Morgan	--	--	--	--	7.50	--	10.17	8.00	9.50	--	--	--	--	
Rich	--	--	--	--	--	--	--	--	--	--	--	--	--	
Summit	--	--	--	--	7.00	--	--	7.33	--	--	--	--	--	
Weber	--	--	--	--	--	--	--	--	20.0	--	--	--	--	
REGIONAL TOTALS	7.88	9.08	7.50	7.38	7.52	10.09	9.67	9.91	6.25	13.23	13.00	8.00	11.00	9.13
Central														
Juab	--	--	--	--	7.00	9.00	11.62	5.25	9.33	9.53	9.67	11.00	8.67	
Salt Lake	--	--	--	--	--	11.25	16.50	--	--	--	--	--	--	
Sanpete	--	--	--	--	7.00	6.00	--	6.67	7.00	6.00	--	--	--	
Tooele	--	--	--	--	--	17.33	14.50	12.14	11.29	10.83	15.00	11.89	9.00	
Utah	--	--	--	--	--	5.62	9.40	9.00	8.14	7.50	8.40	8.00	--	
Wasatch	--	--	--	--	--	--	11.50	--	--	--	--	--	--	
REGIONAL TOTALS	7.92	6.00	6.43	8.50	7.00	9.22	11.38	9.00	9.88	9.98	10.10	11.35	8.83	8.89
Southern														
Beaver	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Garfield	--	--	--	--	5.00	--	8.20	5.00	--	--	--	--	--	
Iron	--	--	--	--	--	--	--	--	0	--	--	--	--	
Kane	--	--	--	--	--	--	--	--	--	--	--	--	--	
Millard	--	--	--	--	--	15.43	9.67	--	11.50	10.00	--	--	3.00	
Piute	--	--	--	--	--	--	--	--	5.50	5.67	--	--	5.00	
Sevier	--	--	--	--	--	--	--	--	--	--	--	--	--	
Washington	--	--	--	--	--	--	--	--	--	--	--	--	--	
Wayne	--	--	--	--	--	--	--	--	6.00	--	--	--	--	
REGIONAL TOTALS	8.98	11.50	6.17	8.83	5.00	15.43	9.67	8.20	7.80	6.75	--	--	4.00	8.83
Northeastern														
Daggett	--	--	--	--	7.71	19.00	15.50	4.00	--	--	--	--	--	
Duchesne	--	--	--	--	--	7.64	11.50	--	6.00	--	--	--	--	
Uintah	--	--	--	--	--	--	9.00	4.50	7.00	10.00	--	6.00	--	
REGIONAL TOTALS	--	--	8.50	10.00	7.71	8.58	12.00	4.33	6.86	10.00	--	6.00	--	8.22
Southeastern														
Carbon	--	--	--	--	--	10.00	--	7.67	7.29	9.29	9.00	9.50	9.00	
Emery	--	--	--	--	7.33	--	9.00	--	--	--	12.00	9.80	12.00	
Grand	--	--	--	--	9.35	10.00	--	7.20	8.33	7.20	1.00	6.25	4.00	
San Juan	--	--	--	--	6.50	--	6.60	6.50	5.82	9.00	--	10.00	4.33	
REGIONAL TOTALS	9.83	10.48	9.25	9.68	8.48	10.00	6.60	7.36	6.88	8.50	8.50	9.05	6.00	8.73
STATE TOTALS	8.50	9.08	7.52	9.27	7.91	10.16	10.47	8.34	7.81	10.08	10.65	10.00	7.12	9.15

Table 4. Trend of chukars observed per 100 hours ratios, 1967-75.

Region and County	Year										Averages 1967-74
	1967	1968	1969	1970	1971	1972	1973	1974	1975		
Northern Region											
Box Elder	165	274	1322	386	71	374	77	468	895		
Cache	291	0	911	175	358	--	--	--	130		
Davis	50	--	600	--	--	--	--	--	--		
Morgan	107	--	1670	500	262	--	--	--	--		
Rich	0	0	--	--	--	--	--	--	--		
Summit	19	--	--	--	--	--	--	--	--		
Weber	--	--	928	--	--	--	--	--	--		
Regional Totals	125	288	1196	445	132	374	119	632	640		414
Central Region											
Juab	230	367	450	197	1724	613	174	338	229		
Salt Lake	270	830	354	15	108	--	60	--	25		
Sanpete	202	48	91	371	475	527	7	0	0		
Tooele	--	688	730	1022	592	2044	198	730	291		
Utah	--	567	938	177	210	833	336	140	0		
Wasatch	--	0	867	0	--	--	--	--	--		
Regional Totals	222	285	408	320	510	997	167	437	178		419
Southern Region											
Beaver	--	--	0	--	--	--	--	--	--		
Garfield	300	--	0	761	123	--	0	0	0		
Iron	--	--	--	--	0	--	--	--	--		
Kane	--	--	0	--	--	--	--	0	--		
Millard	--	--	3950	--	529	573	--	291	36		
Plute	0	--	0	0	650	2400	--	--	150		
Sevier	--	--	--	--	--	900	--	100	--		
Washington	372	--	0	--	--	--	--	--	--		
Wayne	--	--	--	--	600	--	--	--	0		
Regional Totals	216	--	484	1448	259	543	0	79	37		505
Northeastern Region											
Daggett	2143	741	2700	1333	0	--	0	0	0		
Duchesne	4	496	438	0	41	--	0	0	0		
Uintah	115	200	255	110	350	48	0	227	0		
Regional Totals	199	433	396	82	162	16	0	83	0		196
Southeastern Region											
Carbon	288	550	--	--	1282	621	375	947	1100		
Emery	3550	0	0	--	--	--	194	1130	233		
Grand	3329	37	--	693	643	710	358	900	2277		
San Juan	419	1144	438	731	321	431	800	789	721		
Regional Totals	1550	284	211	816	364	541	298	915	996		623
STATE TOTALS	328	382	516	459	325	556	150	469	303		398

Table 5. Summary of chukar hunting success and distribution of harvest and hunting pressure by region and county, 1975.

Region and County	Hunters Reporting	Days Hunted	Birds Bagged	Birds per Hunter-day	Birds per Hunter*	% of Pressure	% of Harvest
<u>Northern</u>							
Box Elder	241	646	776	1.20	4.65	20.53	30.32
Cache	63	143	91	0.64	1.72	4.55	3.56
Davis	19	32	10	0.31	1.52	1.02	0.39
Morgan	37	138	95	0.69	5.00	4.39	3.71
Rich	4	10	2	0.20	0.00	0.32	0.08
Summit	10	40	59	1.47	24.00	1.27	2.31
Weber	34	112	52	0.46	3.19	3.56	2.03
Regional Totals	408	1,121	1,085	0.97	2.99	35.63	42.40
<u>Central</u>							
Juab	43	104	57	0.55	1.45	3.31	2.23
Salt Lake	58	128	97	0.76	1.70	4.07	3.79
Sanpete	25	93	67	0.72	3.53	2.96	2.62
Tooele	173	497	335	0.67	2.58	15.80	13.09
Utah	142	400	168	0.42	1.41	12.71	6.57
Wasatch	11	33	6	0.18	4.50	1.05	0.23
Regional Totals	452	1,255	730	0.58	1.82	39.89	28.53
<u>Southern</u>							
Beaver	0	0	0	0.00	0.00	0.00	0.00
Garfield	1	2	10	5.00	0.00	0.06	0.39
Iron	2	8	0	0.00	0.00	0.25	0.00
Kane	0	0	0	0.00	0.00	0.00	0.00
Millard	23	66	32	0.48	1.07	2.10	1.25
Piute	9	26	18	0.69	0.67	0.83	0.70
Sevier	45	149	60	0.40	2.03	4.74	2.34
Washington	2	3	1	0.33	0.50	0.10	0.04
Wayne	10	23	56	2.43	7.83	0.73	2.19
Regional Totals	92	277	177	0.64	2.11	8.80	6.92
<u>Northeastern</u>							
Daggett	1	3	0	0.00	0.00	0.10	0.00
Duchesne	12	44	15	0.34	0.29	1.40	0.59
Uintah	11	25	33	1.32	1.00	0.79	1.29
Regional Totals	24	72	48	0.67	0.64	2.29	1.88
<u>Southeastern</u>							
Carbon	29	113	81	0.72	6.91	3.59	3.17
Emery	34	141	203	1.44	8.33	4.48	7.93
Grand	42	109	202	1.85	3.87	3.46	7.89
San Juan	8	14	7	0.50	2.33	0.45	0.27
Regional Totals	113	377	493	1.31	5.83	11.98	19.27
Unknown counties	16	44	26	0.59	1.00	1.40	1.02
Mixed counties	0	0	0	0.00	0.00	0.00	0.00
STATE TOTALS	1,105	3,146	2,559	0.81	2.57	100	100

*Based on county of residence.

Table 6. Summary of chukars bagged per hunter-day by region and county, 1970-75.

Region and County	1970	1971	1972	1973	1974	1975
<u>Northern</u>						
Box Elder	1.00	1.66	0.88	1.41	1.47	1.20
Cache	1.28	0.91	0.75	0.68	0.92	0.64
Davis	0.93	0.98	0.89	1.12	1.61	0.31
Morgan	1.75	1.68	0.85	1.64	0.48	0.69
Rich	1.78	1.00	0.67	0.80	1.33	0.20
Summit	0.47	0.67	1.28	1.00	0.43	1.47
Weber	0.60	0.86	1.10	0.35	0.54	0.46
REGIONAL TOTALS	1.09	1.36	0.90	1.17	1.19	0.97
<u>Central</u>						
Juab	1.22	1.24	0.87	0.81	0.79	0.55
Salt Lake	1.15	0.77	0.64	1.01	0.55	0.76
Sanpete	0.21	0.83	0.63	1.12	0.96	0.72
Tooele	1.30	1.45	0.77	0.88	0.79	0.67
Utah	1.05	0.48	0.67	0.85	0.71	0.42
Wasatch	0.88	0.52	0.23	1.46	0.88	0.18
REGIONAL TOTALS	1.17	1.04	0.72	0.90	0.74	0.58
<u>Southern</u>						
Beaver	0.50	--	0.00	--	0.00	0.00
Garfield	2.57	0.00	0.50	0.00	1.00	5.00
Iron	2.00	1.17	1.74	0.33	0.00	0.00
Kane	0.00	2.00	0.00	--	0.00	0.00
Millard	2.10	1.63	1.33	0.96	0.52	0.48
Piute	0.42	1.15	1.29	0.58	0.29	0.69
Sevier	0.88	0.34	0.29	0.41	0.54	0.40
Washington	0.00	0.00	1.50	--	0.00	0.33
Wayne	0.44	0.80	0.87	0.00	0.73	2.43
REGIONAL TOTALS	1.29	0.86	0.90	0.62	0.51	0.64
<u>Northeastern</u>						
Daggett	0.00	0.00	0.00	0.00	0.00	0.00
Duchesne	0.29	0.88	0.59	0.71	0.50	0.34
Uintah	0.60	0.81	0.69	0.22	0.12	1.32
REGIONAL TOTALS	0.46	0.82	0.60	0.40	0.30	0.67
<u>Southeastern</u>						
Carbon	0.54	0.26	0.62	0.35	0.61	0.72
Emery	0.46	0.79	0.04	0.67	0.65	1.44
Grand	1.72	0.63	0.42	0.79	2.84	1.85
San Juan	5.00	0.11	0.25	1.46	1.33	0.50
REGIONAL TOTALS	0.94	0.44	0.40	0.64	1.22	1.31
Unknown counties	2.00	1.49	0.43	0.35	0.60	0.59
Mixed counties	0.00	--	0.00	--	3.00	0.00
STATE TOTALS	1.12	1.10	0.79	0.95	0.91	0.81

Table 7. Distribution of chukar harvest by region and county, 1970-75.

Region and County	1970	1971	1972	1973	1974	1975
<u>Northern</u>						
Box Elder	16.49	25.52	30.59	27.24	40.28	30.32
Cache	12.09	4.69	6.44	5.44	5.70	3.56
Davis	2.35	1.78	1.96	3.00	1.57	0.39
Morgan	3.41	4.76	3.13	7.17	2.00	3.71
Rich	0.59	0.21	0.37	0.16	0.34	0.08
Summit	0.29	0.49	4.23	1.69	0.55	2.31
Weber	1.39	3.36	5.33	1.02	2.08	2.03
REGIONAL TOTALS	36.61	40.80	52.05	45.72	52.53	42.40
<u>Central</u>						
Juab	2.64	3.57	3.19	3.23	2.85	2.23
Salt Lake	6.41	3.46	5.52	6.23	3.66	3.79
Sanpete	0.15	1.01	0.74	1.14	2.21	2.62
Tooele	21.80	30.42	17.17	15.33	14.16	13.09
Utah	11.69	5.59	6.87	16.24	11.23	6.57
Wasatch	0.77	1.15	0.18	2.64	0.64	0.23
REGIONAL TOTALS	43.46	45.21	33.66	44.82	34.75	28.53
<u>Southern</u>						
Beaver	0.04	--	0.00	--	0.00	0.00
Garfield	0.66	0.00	0.06	0.00	0.30	0.39
Iron	0.37	0.24	2.02	0.08	0.00	0.00
Kane	0.00	0.07	0.00	--	0.00	0.00
Millard	5.31	4.44	3.43	2.84	1.53	1.25
Piute	0.18	0.80	0.55	0.59	0.43	0.70
Sevier	3.22	1.40	0.98	1.69	1.62	2.34
Washington	0.00	0.00	0.18	--	0.00	0.04
Wayne	0.26	0.14	1.23	0.00	0.34	2.19
REGIONAL TOTALS	10.04	7.10	8.46	5.20	4.21	6.92
<u>Northeastern</u>						
Daggett	0.00	0.00	0.00	0.00	0.00	0.00
Duchesne	0.37	0.98	1.41	0.39	0.68	0.59
Uintah	1.06	1.33	1.47	0.16	0.17	1.29
REGIONAL TOTALS	1.43	2.31	2.88	0.55	0.85	1.88
<u>Southeastern</u>						
Carbon	1.61	0.38	1.59	0.79	1.40	3.17
Emery	0.44	0.52	0.06	0.39	0.85	7.93
Grand	2.97	0.84	0.67	1.02	3.74	7.89
San Juan	0.37	0.07	0.06	0.75	0.34	0.27
REGIONAL TOTALS	5.39	1.82	2.39	2.96	6.34	19.27
Unknown counties	3.08	2.76	0.55	0.75	1.19	1.02
Mixed counties	0.00	--	0.00	--	0.13	0.00
STATE TOTALS	100	100	100	100	100	100

Table 8. Distribution of chukar hunting pressure by region and county, 1970- 75.

Region and County	1970	1971	1972	1973	1974	1975
<u>Northern</u>						
Box Elder	18.48	16.95	27.51	18.38	25.08	20.53
Cache	10.62	5.71	6.82	7.56	5.68	4.55
Davis	2.84	2.01	1.75	2.55	0.89	1.02
Morgan	2.18	3.13	2.92	4.16	3.77	4.39
Rich	0.37	0.23	0.44	0.19	0.23	0.32
Summit	0.70	0.81	2.63	1.61	1.17	1.27
Weber	2.59	4.29	3.85	2.77	3.54	3.56
REGIONAL TOTALS	37.78	33.13	45.91	37.21	40.36	35.63
<u>Central</u>						
Juab	2.43	3.17	2.92	3.78	3.30	3.31
Salt Lake	6.26	4.94	6.82	5.84	6.03	4.07
Sanpete	0.78	1.35	0.93	0.97	2.10	2.96
Tooele	18.81	23.24	17.67	16.51	16.41	15.80
Utah	12.55	12.99	8.08	18.23	14.42	12.71
Wasatch	0.99	2.43	0.63	1.72	0.66	1.05
REGIONAL TOTALS	41.81	48.11	37.05	47.06	42.92	39.89
<u>Southern</u>						
Beaver	0.08	--	0.10	--	0.00	0.00
Garfield	0.29	0.12	0.10	0.04	0.27	0.06
Iron	0.21	0.23	0.93	0.22	0.00	0.25
Kane	0.00	0.04	0.00	--	0.00	0.00
Millard	2.84	3.01	2.04	2.81	2.68	2.10
Piute	0.49	0.77	0.34	0.97	1.36	0.83
Sevier	4.12	4.48	2.73	3.89	2.76	4.74
Washington	0.08	0.23	0.10	--	0.00	0.10
Wayne	0.66	0.19	1.12	0.04	0.43	0.73
REGIONAL TOTALS	8.77	9.07	7.45	7.97	7.50	8.80
<u>Northeastern</u>						
Daggett	0.12	0.04	0.19	0.11	0.08	0.10
Duchesne	1.40	1.24	1.90	0.52	1.24	1.40
Uintah	1.98	1.81	1.70	0.67	1.28	0.79
REGIONAL TOTALS	3.50	3.09	3.80	1.31	2.60	2.29
<u>Southeastern</u>						
Carbon	3.33	1.62	2.04	2.13	2.10	3.59
Emery	1.07	0.73	1.22	0.56	1.21	4.48
Grand	1.93	1.47	1.27	1.24	1.21	3.46
San Juan	0.08	0.73	0.19	0.49	0.23	0.45
REGIONAL TOTALS	6.42	4.56	4.72	4.42	4.74	11.98
Unknown counties	1.73	2.05	1.02	2.02	1.83	1.40
Mixed counties	0.00	--	0.05	--	0.04	0.00
STATE TOTALS	100	100	100	100	100	100

Table 9. State-wide summary of chukar partridge harvest statistics, 1956-75.

Year	Total hunters	Total harvest	Hunter days afield	Chukars per hunter-day	Chukars per hunter
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
1973	13,888	48,135	50,677	0.95	3.47
1974	16,412	44,658	48,856	0.91	2.72
1975	16,156	41,151	51,083	0.81	2.57
<hr/>					
TOTALS (1958-75)	285,229	777,931	819,223	0.95	2.73
<hr/>					
AVERAGES (1958-74)	15,828	43,340	45,185	0.91	2.45

Table 10. Chukar field bag check summary, 1975.

Region and County	ALL HUNTS				COMPLETE HUNTS				Birds/100 Hrs. Hunter	
	Total Parties	Total Hunters	Total Hours	Total Birds	Total Complete Hunts	Total Hunters	Total Hours	Total Birds		
Northern										
Box Elder	43	92	389	65	17	62	330	65	20	1.05
Cache	3	8	15	8	53	8	15	8	53	1.00
Davis	--	--	--	--	--	--	--	--	--	--
Morgan	--	--	--	--	--	--	--	--	--	--
Rich	--	--	--	--	--	--	--	--	--	--
Summit	--	--	--	--	--	--	--	--	--	--
Weber	--	--	--	--	--	--	--	--	--	--
Regional Totals	46	100	404	73	18	70	345	73	21	1.04
Central										
Juab	10	29	216	8	4	21	189	7	4	0.33
Salt Lake	--	--	--	--	--	--	--	--	--	--
Sanpete	--	--	--	--	--	--	--	--	--	--
Tooele	119	247	926	191	21	166	640	140	22	0.84
Utah	3	7	30	2	7	2	12	0	0	0.29*
Wasatch	--	--	--	--	--	--	--	--	--	--
Regional Totals	132	283	1,172	201	17	189	841	147	17	0.78
Southern										
Beaver	--	--	--	--	--	--	--	--	--	--
Garfield	--	--	--	--	--	--	--	--	--	--
Iron	--	--	--	--	--	--	--	--	--	--
Kane	--	--	--	--	--	--	--	--	--	--
Millard	12	44	115	25	22	18	50	13	26	0.72
Piute	2	2	1	1	100	2	1	1	100	0.50
Sevier	--	--	--	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--	--	--	--
Wayne	--	--	--	--	--	--	--	--	--	--
Regional Totals	14	46	116	26	22	20	51	14	27	0.70
Northeastern										
Daggett	--	--	--	--	--	--	--	--	--	--
Duchesne	--	--	--	--	--	--	--	--	--	--
Uintah	--	--	--	--	--	--	--	--	--	--
Regional Totals	0	0	0	0	0	0	0	0	0	0
Southeastern										
Carbon	--	--	--	--	--	--	--	--	--	--
Emery	13	36	123	58	47	8	32	14	44	1.75
Grand	20	55	212	113	53	11	30	30	100	2.73
San Juan	10	22	73	25	34	22	73	25	34	1.14
Regional Totals	43	113	408	196	48	41	135	69	51	1.68
STATE TOTALS	235	542	2,100	496	24	320	1,372	303	22	0.95

N O D A T A

*Based on all hunts.

Table 11. Chukar field bag check trend as determined via field bag checks, 1970-75.

Region and County	1970		1971		1972		1973		1974		1975	
	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter
Northern												
Box Elder	20	0.86	17	0.89	24	1.35	20	0.98	29	2.12	17	1.05
Cache	--	--	29	1.03	18	0.72	19	0.91	16	0.79	53	1.00
Davis	12	0.47	--	--	--	--	--	--	--	--	--	--
Morgan	37	2.86	36	1.00	--	--	--	--	--	--	--	--
Rich	--	--	--	--	--	--	--	--	--	--	--	--
Summit	96	3.00	--	--	--	--	17	1.00	--	--	--	--
Weber	7	0.17	--	--	0	0	--	--	--	--	--	--
REGIONAL TOTALS	21	0.83	18	0.90	23	1.21	20	0.96	28	1.94	18	1.04
Central												
Juab	20	1.08	24	1.72	11	0.78	8	0.50	3	0.16	4	0.33
Salt Lake	63	2.00	30	1.00	17	--	11	0.33	0	0.00	--	--
Sanpete	5	0.25	10	0.33	--	--	--	--	--	--	--	--
Tooele	38	2.35	14	1.18	6	0.60	12	0.79	21	0.68	21	0.84
Utah	10	0.31	--	--	19	0.43	0	0.00	--	--	7	0.29*
Wasatch	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	21	0.96	16	1.28	8	0.69	9	0.62	17	0.55	17	0.78
Southern												
Beaver	--	--	--	--	--	--	--	--	--	--	--	--
Garfield	--	--	--	--	--	--	--	--	--	--	--	--
Iron	--	--	--	--	--	--	--	--	--	--	--	--
Kane	27	0.75	--	--	--	--	--	--	--	--	--	--
Millard	54	3.24	33	2.93	--	--	--	--	--	--	22	0.72
Piute	--	--	--	--	--	--	--	--	--	--	100	0.50
Sevier	--	--	--	--	--	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--	--	--	--	--	--
Wayne	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	44	1.78	33	2.93	--	--	--	--	--	--	22	0.70
Northeastern												
Daggett	39	1.00	49	0.41	--	--	--	--	--	--	--	--
Duchesne	7	0.50	29	0.83	--	--	--	--	0	0.00	--	--
Uintah	15	0.55	60	0.55	17	0.50	--	--	--	--	--	--
REGIONAL TOTALS	15	0.67	52	0.45	17	0.50	--	--	0	0.00	--	--
Southeastern												
Carbon	--	--	11	0.25	18	0.55	--	--	--	--	--	--
Emery	--	--	0	0.00	41	1.50	18	0.67	200	1.33	47	1.75
Grand	73	2.20	16	0.60	--	--	67	1.71	112	4.00	53	2.73
San Juan	--	--	--	--	--	--	--	--	0	0.00	34	1.14
REGIONAL TOTALS	73	2.20	11	0.40	31	1.04	48	1.40	104	2.40	48	1.68
STATE TOTALS	23	0.94	19	1.05	15	0.97	17	0.91	27	1.60	24	0.95

SAGE GROUSE

SUMMARY

A slightly decreased breeding population was indicated for 1975 by both the 1974 harvest statistics and strutting ground surveys.

Production during 1975 was below both 1974 and the average. Relatively poor counting conditions during 1975, resulting from the late, wet spring, were at least partially responsible for decreased numbers of birds observed as well as the lower indicated reproductive success. Sage grouse were not concentrated in moist areas as in most years due to relatively abundant succulent forage available well into the summer.

The 1975 harvest increased over 1974 due to both increased hunter success and greater hunting pressure. It seemed evident that the fall population was higher than indicated by inventory data.



Strutting Ground Counts

The status of the sage grouse breeding population for 1975 as indicated by strutting ground counts is shown in Table 1 of this section. Results of this survey for 1975 compared to 1974 and the 1967-74 average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Number of grounds counted	119	-16	+32
Total grouse counted	2,296	- 7	+18
Average male grouse per ground	19.3	+10	-11
Percent change from previous year (comparable grounds)	- 4	--	--

Hunter success indexes for 1974 suggested a slightly decreased breeding population for 1975. This was confirmed by the strutting ground survey. Increases were evident in the Central and Southeastern regions while the Northern Region was comparable to 1974 and the Southern Region below 1974. Total strutting grounds counted was less than in 1974 due largely to poor access.

Brood Counts

Results of this survey for 1975 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 1975 compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Total sage grouse counted	1,896	-51	-37
Young per 100 adults	120	-25	-21
Mean brood size	4.15	- 9	- 8
Sage grouse observed per 100 hours	196	-49	-44
Total hours effort	965	- 4	+14

Hours effort on brood counts was only slightly less than 1974 and above average. Total grouse counted decreased sharply from the high count of 1974. This was largely due to contrasting survey conditions. In 1974 the weather was hot and dry during and preceding the survey period and grouse were concentrated in moist areas where they were easily observed. In 1975, the late, wet spring resulted in relatively moist range conditions. Green forage was readily available much later in the year and concentration in wet areas was less evident.

Production indexes were below both 1974 and the average in all but the Southern Region where a sharp increase in the young-adult ratio was indicated. Density indexes (Grouse per 100 hours) for all regions were lower than in 1974; a reflection of contrasting counting conditions.

Fall populations were estimated to be down on a Statewide basis because of the slightly reduced breeding population and apparent decreased production.

Harvest

Hunter Questionnaire

Results of the 1975 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 statewide harvest statistics in Table 10. The 1975 hunting season compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Sage grouse hunters	13,996	+15	+56
Sage grouse harvested	18,916	+24	+53
Hunter-days afield	25,720	+ 9	+76
Sage grouse per hunter-day	0.74	+14	-16
Sage grouse per hunter	1.35	+ 8	- 1

In contrast to a predicted decreased sage grouse population for the fall of 1975, an increased harvest occurred. It was a result of both increased hunting pressure and improved hunter success. Increased success was indicated for all but the Southern and Northeastern regions where it was slightly below 1974.

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

Field Bag Checks

A summary of field bag check data for 1975 is shown in Table 11. Hunter success trends determined via this method since 1970 are shown in Table 12. Results of the 1975 survey compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Total hunters checked	2,253	+25	+14
Total hours hunted	8,232	+21	+ 3
Sage grouse per hunter (complete hunts)	0.67	+ 5	-16
Sage grouse bagged per 100 hours	17	+13	-11
Average hours per hunter-day (complete hunts)	4.1	0	+ 5
Hours hunted per grouse bagged	6.1	- 5	+13

Hunter success indicated by this survey was slightly higher than 1974 but still below average. It was 9 percent less than that shown by the harvest questionnaire. The average number of hours per hunter-day was similar to 1974 and slightly above average while the time spent per bird bagged was lower than 1974 and above average.

Sage grouse bagged per hunter and per hunter-day.

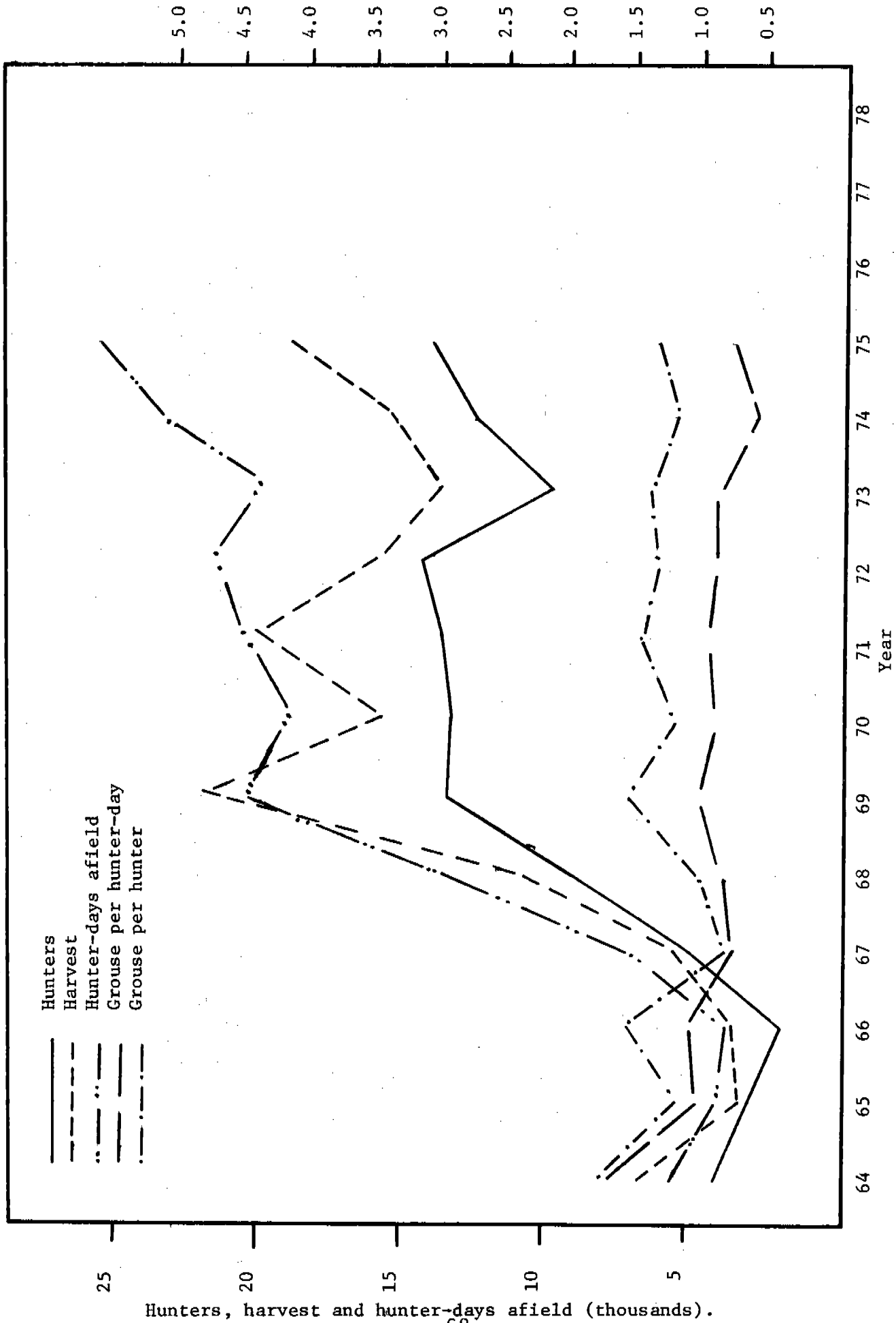


Figure 1. Statewide trend of sage grouse harvest statistics.

Hunters, harvest and hunter-days afield (thousands).

Table 1. Summary of sage grouse strutting ground counts by region and county, 1962-75.

Region and County	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
<u>Northern Region</u>														
BOX ELDER														
No. strutting grounds counted	3	9	6	6	8	12	15	22	21	21	20	21	25	19
Total grouse counted	106	155	73	96	118	152	253	667	556	479	422	325	306	346
County average (All strutting grounds)	35.3	17.2	12.2	16.0	14.8	12.7	16.9	30.3	26.5	22.8	21.1	15.5	12.2	18.2
% Change from previous year - comparable grounds	-31.4	-37.1	-33.3	+35.7	-11.1	-33.3	+23.1	+94.1	-8.4	-14.0	-10.4	-30.0	-18.5	+29.1
CACHE														
No. strutting grounds counted		1	1	3	2	2	3	2	2	3	3	2	3	3
Total grouse counted		24	45	30	45	59	68	57	50	68	57	50	44	100
County average (All strutting grounds)		24.0	45.0	10.0	22.5	29.5	22.7	19.0	25.0	22.7	19.0	25.0	14.7	33.1
% Change from previous year - comparable grounds		+87.5	-77.8	+57.0	+31.1	+6.8	-16.3	+6.0	-14.0	+132.6				
MORGAN														
No. strutting grounds counted		2	2	2	2	2	3	3	3	3	3	3	3	3
Total grouse counted		85	45	35	53	61	63	61	63	41	41	63	63	41
County average (All strutting grounds)		42.5	22.5	17.5	17.7	20.3	21.0	21.0	21.0	13.7				
% Change from previous year - comparable grounds		--	-47.0	-22.2	+29.0	+15.0	+3.4	-34.7						
RICH														
No. strutting ground counted	6	6	5	6	5	5	10	6	8	7	9	12	14	10
Total grouse counted	231	339	172	98	111	134	280	298	324	240	254	299	389	268
County average (All strutting grounds)	38.5	56.5	34.4	16.3	22.2	26.8	28.0	49.7	40.5	34.3	28.2	24.9	27.8	26.8
% Change from previous year - comparable grounds	-43.0	+46.7	-38.9	-48.2	+24.7	+7.2	-1.5	+84.1	-20.0	-12.0	-18.1	-13.0	+31.1	-32.0
SUMMIT														
No. strutting grounds counted	4	3	4	4	4	4	4	5	5	5	5	5	5	4
Total grouse counted	129	21	51	33	33	58	71	168	185	223	152	138	113	88
County average (All strutting grounds)	32.2	7.0	12.8	8.2	8.2	14.5	17.8	33.6	37.0	44.6	30.4	27.6	22.6	22.0
% Change from previous year - comparable grounds	--	-81.9	+75.7	-35.9	0.0	+24.5	+22.8	+60.1	+10.1	+20.5	-31.8	-18.0	-18.1	-30.0

Table 1. Continued

Region and County	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
REGIONAL TOTALS														
No. strutting grounds counted	13	18	15	16	18	22	32	37	37	38	40	43	50	39
Total grouse counted	466	515	296	227	286	389	634	1263	1147	1045	938	873	915	843
Regional average (all strutting grounds)	35.8	28.6	19.7	14.2	15.9	17.7	19.8	34.1	31.0	27.5	23.4	20.3	18.3	21.6
% Change from previous year - comparable grounds	-39.6	-5.8	-31.2	-29.3	+6.7	+1.1	+7.9	+84.7	-9.0	-15.9	-15.8	-20.0	-1.0	-1.4
Southern Region														
GARFIELD														
No. strutting grounds counted	--	--	--	--	--	6	6	10	13	14	14	14	14	14
Total grouse counted	--	--	--	--	--	117	96	213	322	351	330	166	327	233
County average (all strutting grounds)	--	--	--	--	--	19.5	16.0	21.3	24.8	25.1	23.5	11.9	23.4	16.6
% Change from previous year - comparable grounds	--	--	--	--	--	--	-17.9	+59.4	+31.0	-0.3	-6.8	-50.0	+114.3	-34.9
WAYNE														
No. strutting grounds counted	9	7	8	11	11	11	11	11	11	11	12	10	11	11
Total grouse counted	302	331	497	458	248	248	248	248	311	311	231	231	237	160
County average (All strutting grounds)	33.6	47.3	62.1	41.6	22.5	22.5	22.5	22.5	26.0	26.0	23.1	21.5	21.5	14.5
% Change from previous year - comparable grounds	--	+3.0	+46.6	-14.6	-45.9	+18.2	-20.6	+2.6	+2.6	+2.6	+2.6	+2.6	+2.6	-32.6
BEAVER														
No. strutting grounds counted	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Total grouse counted	0	79	47	141	153	82	110	122	122	122	122	122	122	122
County average (All strutting grounds)	0.0	39.5	23.5	28.2	30.6	16.4	22.0	20.3	20.3	20.3	20.3	20.3	20.3	20.3
% Change from previous year - comparable grounds	--	--	-40.5	-49.4	+8.5	-46.6	+34.2	+1.4	+1.4	+1.4	+1.4	+1.4	+1.4	+1.4
PIUTE														
No. strutting grounds counted	1	0	1	1	1	1	1	1	1	1	1	1	1	1
Total grouse counted	2	--	6	7	7	7	7	7	7	7	7	7	7	7
County average (All strutting grounds)	2.0	--	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
% Change from previous year - comparable grounds	--	--	--	+16.7	0	-28.5	--	--	--	--	--	--	--	--

Table 1. Continued

Region and County	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
IRON														
No. strutting grounds counted				5	3	4	6	7	0	9				
Total grouse counted				3	23	64	47	66	0	86				51
County average (All strutting grounds)				0.6	7.7	16.0	7.8	9.3	--	9.6				5.60
% Change from previous year - comparable grounds				--	--	-8.7	-50.0	+42.3	--	--				-41.1
SEVIER														
No. strutting grounds counted	1	1	0	1	1	1	1	1	1	1				--
Total grouse counted	11	0	--	0	0	0	0	0	0	9				--
County average (All strutting grounds)	11.0	0.0	--	0.0	0.0	0.0	0.0	0.0	--	9.0				--
% Change from previous year - comparable grounds	--	100	--	--	--	--	--	--	--	--				--
REGIONAL TOTALS														
No. strutting grounds counted	17	21	24	33	38	40	31	40	40	40				40
Total grouse counted	432	430	818	928	794	865	479	769	566	566				566
Regional average (All strutting grounds)	25.4	20.5	34.1	28.1	20.9	21.6	15.4	19.2	14.3	14.3				14.3
% Change from previous year - comparable grounds	--	-3.5	+75.4	-4.8	-30.3	+6.7	-40.0	+49.1	-30.0	-30.0				-30.0
Central Region														
SANPETE														
No. strutting grounds counted						2	1	2	2	2				2
Total grouse counted						13	2	0	0	0				5
County average (All strutting grounds)						6.5	2.0	--	--	2.5				2.5
% Change from previous year - comparable grounds						--	-75.0	--	--	--				--
TOOELE														
No. strutting grounds counted	2	3	3	4	5	5	5	5	5	5				5
Total grouse counted	44	96	74	92	128	60	95	59	59	59				59
County average (All strutting grounds)	22.0	32.0	24.7	23.0	25.6	12.0	19.0	11.8	11.8	11.8				11.8
% Change from previous year - comparable grounds	--	+59.1	-22.9	-16.2	0.0	-34.8	+43.3	-29.6	-29.6	-29.6				-29.6
WASATCH														
No. strutting grounds counted		2	2	2	2	2	2	2	2	2				2
Total grouse counted		100	70	102	52	99	201	201	201	201				201
County average (All strutting grounds)		50.0	35.0	51.0	26.0	49.5	100.5	100.5	100.5	100.5				100.5
% Change from previous year - comparable grounds		--	-30.0	+45.7	-49.0	+90.4	+103.0	+103.0	+103.0	+103.0				+103.0

Table 1. Continued

Region and County	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
REGIONAL TOTALS														
No. strutting grounds counted									5	8	8	9	9	9
Total grouse counted									174	175	232	112	194	265
Regional average (All strutting grounds)									34.8	21.9	29.0	12.4	21.6	29.4
% Change from previous year - comparable grounds									-22.9	-24.1	+15.2	-42.1	+64.7	+45.2
Northeastern Region														
DAGGETT														
No. strutting grounds counted									1	4	4	5	4	3
Total grouse counted									26	37	26	41	53	30
County average (All strutting grounds)									26.0	9.2	6.5	8.2	13.2	10.0
% Change from previous year - comparable grounds									--	-38.5	-28.0	+31.0	-5.4	-18.7
DUCHESNE														
No. Strutting grounds counted									2	3	5	5	11	11
Total grouse counted									27	27	74	43	172	172
County average (All strutting grounds)									13.5	9.0	14.8	8.6	15.6	15.6
% Change from previous year - comparable grounds									--	-25.9	0.0	-40.5	+44.4	-4.7
UINTAH														
No. strutting grounds counted									2	0	2	6	11	9
Total grouse counted									134	98	63	118	156	240
County average (All strutting grounds)									67.0	49.0	12.6	19.7	14.2	26.7
% Change from previous year - comparable grounds									--	--	-31.6	+77.0	-25.0	+28.7
REGIONAL TOTALS														
No. strutting grounds counted									2	0	2	12	15	21
Total grouse counted									134	98	158	127	218	240
Regional averages (All strutting grounds)									67.0	49.0	22.6	10.6	14.5	11.4
% Change from previous year - comparable grounds									--	--	-31.6	-38.6	+32.2	-24.5
														+12.5
														26
														388
														442
														19.2
														+11.8

Table 2. Sage grouse summer inventory summary, 1975

Region and County	Distinct Broods		Mean Brood		Mixed Yng. & Adults		Total Adults w/o Yng.	Total Adults	Total Yng.	Total Young/100 ad.	Vehicle Miles		Hours Effort		Birds/100 hr		
	No. Ad.	Yng.	Ad.	Brood	Ad.	Yng.					Yng.	Ad.	Yng.	Ad.		Yng.	Ad.
Northern																	
Box Elder	27	27	103	3.81	0	0	70	97	103	106	543	42	61	4	107	187	
Cache	9	9	45	5.00	2	1	3	14	46	329	245	20	0	3	23	261	
Davis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Morgan	5	5	19	3.80	2	4	29	36	23	64	0	0	42	0	42	140	
Rich	17	17	68	4.00	0	0	55	72	68	94	404	14	0	17	31	452	
Summit	4	4	15	3.75	2	2	27	33	17	52	62	4	38	4	46	109	
Weber	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
REGIONAL TOTALS	62	62	250	4.03	6	7	184	252	257	102	1254	80	141	28	249	204	
Central																	
Juab	0	0	0	--	0	0	0	0	0	--	10	1	0	1	2	0	
Salt Lake	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Sanpete	1	1	4	4.00	4	10	0	5	14	280	153	0	22	0	22	86	
Tooele	10	10	55	5.50	6	24	31	47	79	168	457	20	18	11	49	257	
Utah	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Wasatch	35	35	135	3.86	2	7	81	118	142	118	343	23	12	15	50	520	
REGIONAL TOTALS	46	46	194	4.22	12	41	112	170	235	138	963	44	52	27	123	329	
Southern																	
Beaver	11	11	43	3.90	0	0	10	21	43	205	0	0	24	10	34	188	
Garfield	28	28	117	4.18	4	2	11	43	119	277	259	11	132	1	144	112	
Iron	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Kane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Millard	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Piute	2	2	2	1.00	0	0	1	3	2	67	70	2	3	3	8	62	
Sevier	0	0	0	--	0	0	0	0	0	0	111	3	3	0	6	0	
Washington	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Wayne	11	11	60	5.45	0	0	0	11	60	545	274	14	10	10	34	209	
REGIONAL TOTALS	52	52	222	4.27	4	2	22	78	224	287	714	30	172	24	226	134	
Northeastern																	
Daggett	8	8	26	3.25	2	2	45	55	28	51	515	15	46	2	63	132	
Duchesne	10	10	36	3.60	0	0	20	30	36	120	440	28	36	15	79	84	
Uintah	32	32	150	4.69	8	38	135	175	188	107	913	79	13	2	94	386	
REGIONAL TOTALS	50	50	212	4.24	10	40	200	260	252	97	1868	122	95	19	236	217	
Southeastern																	
Carbon	3	3	8	2.67	3	14	13	19	22	116	651	60	14	10	84	49	
Emery	0	0	0	--	0	0	0	0	0	--	170	8	0	0	8	0	
Grand	1	1	4	4.00	0	0	0	1	4	400	25	1	0	0	1	500	
San Juan	2	2	7	3.50	7	32	74	83	39	47	252	12	22	4	38	321	
REGIONAL TOTALS	6	6	19	3.17	10	46	87	103	65	63	1098	81	36	14	131	128	
STATE TOTALS	216	216	897	4.15	42	136	605	863	1033	120	5897	357	496	112	965	196	

Table 3. Trend of sage grouse young per 100 adults, 1963-1975

Region and County	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	Averages 1963-74
Northern Region														
Box Elder	143	104	200	93	176	162	153	62	75	83	225	119	106	
Cache	233	400	320	300	680	600	71	10	168	171	80	161	329	
Davis	--	--	--	--	--	--	--	--	--	--	--	--	--	
Morgan	71	0	100	50	160	--	533	400	58	600	245	131	64	
Rich	71	144	54	100	85	92	98	133	137	55	132	153	94	
Summit	156	267	243	140	89	133	121	211	158	173	146	275	52	
Weber	--	550	411	--	650	--	208	--	325	144	500	--	--	
Regional Totals	113	120	171	129	159	132	128	94	135	99	167	131	102	132
Central Region														
Juab	200	--	--	400	125	600	300	117	--	1800	500	--	--	
Salt Lake	118	--	--	--	--	--	--	--	--	--	--	--	--	
Sanpete	200	159	207	427	119	0	191	84	288	177	138	89	280	
Tooele	--	250	286	617	200	416	395	215	188	322	318	314	168	
Utah	400	--	--	--	--	--	--	--	--	--	--	--	--	
Wasatch	50	179	450	200	101	90	89	205	212	145	68	101	118	
Regional Totals	78	171	233	313	104	103	137	170	208	216	106	141	138	165
Southern Region														
Beaver	100	121	46	--	173	--	169	--	250	467	329	219	205	
Garfield	--	112	168	141	132	263	238	107	93	93	121	143	277	
Iron	--	100	200	--	400	--	550	214	183	37	350	46	--	
Kane	--	--	--	--	--	--	470	300	--	336	450	--	--	
Millard	--	900	--	--	--	--	--	--	--	--	--	--	--	
Piute	--	--	--	--	--	--	--	--	--	--	--	--	--	
Sevier	--	357	350	322	98	82	107	--	--	--	500	400	0	
Washington	--	--	--	--	--	--	--	--	--	--	--	--	--	
Wayne	--	188	270	124	140	371	178	347	63	62	394	166	545	
Regional Totals	100	138	169	161	135	257	201	186	85	76	311	157	287	165
Northeastern Region														
Daggett	400	343	242	216	145	560	493	344	168	273	150	266	51	
Duchesne	111	224	273	700	140	209	156	77	230	219	--	161	120	
Uintah	287	420	304	612	237	596	450	419	339	105	312	446	107	
Regional Totals	252	286	268	304	176	446	383	305	278	134	234	321	97	282
Southeastern Region														
Carbon	350	0	500	533	433	512	250	167	145	125	328	185	116	
Emery	--	--	0	800	--	300	164	100	--	--	--	0	--	
Grand	--	400	800	--	--	--	--	--	275	--	0	--	400	
San Juan	158	38	--	--	61	214	37	28	70	26	375	82	47	
Regional Totals	186	50	350	600	94	369	64	30	81	56	340	100	63	194
STATE TOTALS	123	130	196	179	141	178	160	117	138	100	195	160	120	151

Table 4. Trend of sage grouse mean brood size, 1963-1975.

Region and County	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	Averages 1963-74
Northern Region														
Box Elder	4.48	3.97	4.00	3.82	4.04	3.80	5.16	4.13	4.25	3.93	4.69	4.07	3.81	
Cache	5.00	4.00	4.00	6.50	6.80	6.00	4.60	5.00	4.50	4.88	4.00	4.62	5.00	
Davis	--	--	--	--	--	--	--	--	--	--	--	--	--	
Morgan	2.86	--	4.00	5.00	4.00	--	5.33	4.00	5.50	6.00	4.40	4.75	3.80	
Rich	3.60	3.25	5.00	4.37	5.00	4.07	5.42	4.68	4.44	4.69	4.48	3.91	4.00	
Summit	4.67	5.33	5.66	5.25	4.47	3.94	5.91	5.00	5.58	4.73	4.56	5.00	3.75	
Weber	--	5.50	4.11	--	6.50	--	3.38	--	4.33	6.50	5.00	--	--	
Regional Totals	4.12	4.07	4.54	4.90	4.43	3.94	5.18	4.55	4.98	4.58	4.55	4.17	4.03	4.50
Central Region														
Juab	4.00	--	--	4.00	--	6.00	2.00	3.50	--	7.50	5.00	--	--	
Salt Lake	2.00	--	--	--	--	--	--	--	--	--	--	--	--	
Sanpete	5.00	3.58	6.88	5.88	5.67	--	5.40	4.50	6.00	5.33	4.75	4.00	4.00	
Tooele	--	2.50	5.00	6.17	2.00	5.75	5.62	4.44	4.19	4.81	4.90	5.25	5.50	
Utah	4.00	--	--	--	--	--	--	--	--	--	--	--	--	
Wasatch	4.36	5.66	4.50	5.60	5.15	4.29	4.64	4.52	2.94	3.06	4.00	4.24	3.86	
Regional Totals	4.25	4.10	6.07	5.76	5.13	4.46	5.03	4.45	3.94	3.90	4.38	4.49	4.22	4.66
Southern Region														
Beaver	4.93	3.83	3.83	--	4.60	--	5.44	--	5.00	3.83	4.31	3.64	3.90	
Garfield	3.82	5.52	4.44	5.10	3.50	4.10	3.86	3.67	3.73	3.25	3.50	5.41	4.18	
Iron	--	3.00	--	--	4.00	--	--	3.67	4.33	3.71	5.33	6.33	--	
Kane	--	--	--	--	--	--	5.00	3.00	--	4.00	4.50	--	--	
Millard	--	9.00	--	--	--	--	--	--	--	--	--	--	1.00	
Piute	2.31	--	--	--	--	--	--	--	--	--	--	5.67	--	
Sevier	4.25	4.17	4.67	4.58	5.20	4.62	4.14	--	--	--	5.00	4.00	--	
Washington	--	--	--	--	--	--	--	--	--	--	--	--	--	
Wayne	4.72	4.00	4.47	5.11	3.68	4.91	3.89	3.55	4.02	3.36	5.17	4.70	5.45	
Regional Totals	4.24	4.76	4.49	4.96	3.89	4.42	4.07	3.60	4.10	3.53	4.72	4.54	4.27	4.28
Northeastern Region														
Daggett	7.25	3.43	3.83	5.33	3.00	6.00	4.93	4.37	4.00	3.80	4.65	4.93	3.25	
Duchesne	4.44	4.75	3.75	7.00	5.20	4.09	5.00	5.00	5.17	5.40	--	3.82	3.60	
Uintah	5.50	4.20	6.58	6.12	5.70	6.13	4.91	4.44	5.19	4.60	4.60	5.06	4.69	
Regional Totals	5.40	4.15	4.57	5.72	4.90	5.54	4.92	4.46	5.04	4.60	4.61	4.82	4.24	4.89
Southeastern Region														
Carbon	--	--	5.00	5.33	4.00	5.86	2.50	5.00	4.67	4.14	3.50	3.92	2.67	
Emery	3.50	--	--	8.00	--	3.00	9.33	1.00	--	--	--	--	--	
Grand	--	4.00	8.00	--	--	--	--	--	--	--	--	--	4.00	
San Juan	4.75	1.25	--	--	4.00	5.00	4.20	4.29	5.10	3.93	5.67	6.65	3.50	
Regional Totals	4.33	1.80	7.00	6.00	4.00	5.36	4.92	4.00	5.00	4.05	4.43	5.47	3.17	4.70
STATE TOTALS	4.30	4.28	4.70	5.19	4.48	4.50	4.82	4.28	4.62	4.16	4.58	4.574	4.15	4.53

Table 5. Trend of sage grouse observed per 100 hours, 1967-1975.

Region and County	1967	1968	1969	1970	1971	1972	1973	1974	1975	Averages 1967-74
Northern Region										
Box Elder	471	273	563	365	253	467	166	459	187	
Cache	390	100	90	431	229	183	150	250	261	
Davis	--	--	--	--	--	--	--	--	--	
Morgan	34	--	59	333	176	111	345	514	140	
Rich	27	436	678	987	228	348	298	428	452	
Summit	131	522	236	161	420	349	119	188	109	
Weber	375	--	800	--	155	92	40	--	--	
Regional Totals	283	358	468	387	288	319	188	398	204	333
Central Region										
Juab	180	467	200	217	0	181	30	--	0	
Salt Lake	--	--	--	--	--	--	--	--	--	
Sanpete	128	80	135	123	107	106	135	85	86	
Tooele	25	426	407	194	342	786	161	665	257	
Utah	--	--	--	0	--	--	--	--	--	
Wasatch	571	735	690	321	377	364	666	529	520	
Regional Totals	318	475	427	208	230	341	244	402	329	327
Southern Region										
Beaver	--	--	1186	--	420	486	277	460	188	
Garfield	--	941	646	409	604	358	258	603	112	
Iron	--	--	118	346	426	1133	200	241	--	
Kane	--	--	924	80	--	253	550	--	--	
Millard	--	--	--	--	--	--	--	--	--	
Piute	--	0	--	--	--	--	--	833	62	
Sevier	--	283	581	--	--	--	--	500	0	
Washington	--	--	--	--	--	--	--	--	--	
Wayne	--	691	1363	447	2061	555	742	335	209	
Regional Totals	244	601	714	388	911	494	393	413	134	525
Northeastern Region										
Daggett	715	388	626	414	835	346	308	381	132	
Duchesne	400	117	122	100	159	118	0	196	84	
Uintah	385	671	487	474	735	594	310	459	386	
Regional Totals	444	313	361	319	523	349	233	358	217	363
Southeastern Region										
Carbon	--	63	26	59	45	309	500	146	49	
Emery	--	22	152	33	0	--	0	11	0	
Grand	--	--	--	0	133	25	25	--	500	
San Juan	--	157	2875	653	560	775	300	856	321	
Regional Totals	159	68	179	451	218	432	215	360	128	256
STATE TOTALS	296	374	443	346	383	373	237	387	196	353

Table 6. Summary of sage grouse hunter success and distribution of harvest and hunting pressure by region and county, 1975.

Region and County	Hunters Reporting	Days Hunted	Birds Bagged	Birds per Hunter-day	Birds per Hunter**	% of Pressure	% of Harvest
<u>Northern</u>							
Box Elder	75	118	100	0.85	1.27	7.45	8.58
Cache	92	161	125	0.78	1.72	10.16	10.73
Davis	8	15	9	0.60	1.12	0.95	0.77
Morgan	25	38	24	0.63	1.14	2.40	2.06
Rich	60	99	47	0.47	0.83	6.25	4.03
Summit	61	131	82	0.63	1.18	8.27	7.04
Weber	56	96	72	0.75	1.20	6.06	6.18
REGIONAL TOTALS	377	658	459	0.70	1.26	41.54	39.40
<u>Central</u>							
Juab	4	6	3	0.50	1.00	0.38	0.26
*Salt Lake	11	28	29	1.04	1.40	1.77	2.49
*Sanpete	19	32	21	0.66	1.71	2.02	1.80
Tooele	42	49	22	0.45	0.66	3.09	1.89
Utah	72	187	104	0.56	1.56	11.81	8.93
Wasatch	55	78	71	0.91	1.29	4.92	6.09
REGIONAL TOTALS	203	380	250	0.66	1.38	23.99	21.46
<u>Southern</u>							
Beaver	11	19	7	0.37	1.00	1.20	0.60
Garfield	38	69	80	1.16	2.87	4.36	6.87
Iron	14	23	13	0.57	1.10	1.45	1.12
Kane	3	4	0	0.00	1.00	0.25	0.00
Millard	2	4	0	0.00	0.00	0.25	0.00
Piute	12	16	15	0.94	1.83	1.01	1.29
Sevier	30	61	45	0.74	1.11	3.85	3.86
*Washington	1	1	2	2.00	1.64	0.06	0.17
Wayne	50	96	87	0.91	1.23	6.06	7.47
REGIONAL TOTALS	161	293	249	0.85	1.44	18.50	21.37
<u>Northeastern</u>							
Daggett	13	22	15	0.68	1.50	1.39	1.29
Duchesne	25	34	32	0.94	1.36	2.15	2.75
Uintah	47	79	75	0.95	1.77	4.99	6.44
REGIONAL TOTALS	85	135	122	0.90	1.67	8.52	10.47
<u>Southeastern</u>							
Carbon	40	65	62	0.95	1.24	4.10	5.32
Emery	5	11	2	0.18	0.67	0.69	0.17
Grand	0	0	0	0.00	0.00	0.00	0.00
San Juan	7	12	8	0.67	1.17	0.76	0.69
REGIONAL TOTALS	52	88	72	0.82	1.18	5.56	6.18
Unknown counties	23	30	13	0.43	0.00	1.89	1.12
Mixed counties	0	0	0	0.00	0.00	0.00	0.00
STATE TOTALS	901	1584	1165	0.74	1.35	100	100

*Illegal areas

**Based on county of residence

Table 7. Summary of sage grouse bagged per hunter-day by region and county, 1971-75.

Region and County	1971	1972	1973	1974	1975
<u>Northern</u>					
Box Elder	1.12	0.73	0.59	0.68	0.85
Cache	0.65	0.44	0.64	0.52	0.78
Davis	0.41	0.67	--	0.25	0.60
Morgan	0.48	0.86	0.67	0.34	0.63
Rich	0.84	0.64	0.74	0.52	0.47
Summit	0.68	0.65	0.49	0.63	0.63
Weber	0.49	0.55	0.42	0.70	0.75
REGIONAL TOTALS	0.83	0.64	0.62	0.56	0.70
<u>Central</u>					
Juab	**	0.50	0.63	0.73	0.50
Salt Lake	**	**	**	**	**
Sanpete	0.82	0.67	0.85	0.50	**
Tooele	0.83	0.35	0.55	0.72	0.45
Utah	0.88	0.91	0.74	0.53	0.56
Wasatch	0.40	0.35	1.00	0.91	0.91
REGIONAL TOTALS	0.79	0.58	0.72	0.55	0.66
<u>Southern</u>					
Beaver	0.95	0.94	0.68	0.58	0.37
Garfield	1.42	1.09	1.12	0.81	1.16
Iron	0.53	0.67	0.50	1.89	0.57
Kane	0.50	1.00	1.00	0.67	0.00
Millard	--	0.00	--	2.50	0.00
Piute	1.38	0.41	0.82	0.55	0.94
Sevier	0.77	0.50	0.67	0.92	0.74
Washington	**	**	**	**	**
Wayne	1.15	0.86	0.68	1.00	0.91
REGIONAL TOTALS	1.11	0.78	0.79	0.92	0.85
<u>Northeastern</u>					
Daggett	1.55	1.12	1.27	1.07	0.68
Duchesne	1.39	1.23	1.18	0.64	0.94
Uintah	0.99	0.90	1.28	1.12	0.95
REGIONAL TOTALS	1.19	1.03	1.24	0.92	0.90
<u>Southeastern</u>					
Carbon	0.77	1.10	0.46	0.76	0.95
Emery	0.00	1.00	0.50	1.00	0.18
Grand	1.33	1.00	**	**	--
San Juan	1.25	2.00	0.64	0.75	0.67
REGIONAL TOTALS	0.75	1.25	0.53	0.77	0.82
Unknown counties	1.06	0.28	0.56	0.36	0.43
Mixed counties	--	--	--	--	--
Illegal areas	1.00	0.25	0.00	1.50	1.68
STATE TOTALS	0.93	0.72	0.73	0.65	0.74

* Closed Season.

Table 8. Distribution of sage grouse harvest by region and county, 1971-75.

Region and County	1971	1972	1973	1974	1975
Northern					
Box Elder	20.30	17.00	8.99	6.74	8.58
Cache	4.17	5.38	9.40	9.99	10.73
Davis	0.75	0.85	--	0.25	0.77
Morgan	1.18	3.54	3.95	2.00	2.06
Rich	6.20	8.92	9.13	6.87	4.03
Summit	4.49	6.66	4.50	6.37	7.04
Weber	2.46	3.26	1.50	5.37	6.18
REGIONAL TOTALS	39.53	45.61	37.47	37.58	39.40
Central					
Juab	*	0.14	0.68	1.00	0.26
Salt Lake	*	*	*	*	*
Sanpete	0.96	1.42	3.13	0.62	*
Tooele	3.74	1.70	3.95	5.24	1.89
Utah	2.99	4.39	7.22	5.74	8.93
Wasatch	1.07	0.85	2.18	3.62	6.09
REGIONAL TOTALS	10.58	8.64	18.12	17.85	21.46
Southern					
Beaver	1.92	2.12	1.77	1.37	0.60
Garfield	7.59	6.80	7.77	4.87	6.87
Iron	0.85	1.70	0.95	2.12	1.12
Kane	0.21	0.28	0.41	0.25	0.00
Millard	--	0.00	--	0.62	0.00
Piute	1.92	0.99	1.23	0.75	1.29
Sevier	1.82	1.98	2.18	2.75	3.86
Washington	0.21	*	*	*	*
Wayne	11.22	4.39	5.18	6.99	7.47
REGIONAL TOTALS	25.75	18.27	19.48	19.98	21.37
Northeastern					
Daggett	1.82	2.69	1.91	1.87	1.29
Duchesne	6.84	8.36	7.90	4.00	2.75
Uintah	7.05	9.92	9.26	8.36	6.44
REGIONAL TOTALS	15.71	20.96	19.07	14.23	10.47
Southeastern					
Carbon	2.88	3.12	1.63	3.12	5.32
Emery	0.00	0.28	0.68	0.37	0.17
Grand	0.43	0.14	*	*	--
San Juan	1.07	1.42	1.23	0.75	0.69
REGIONAL TOTALS	4.38	4.96	3.81	4.24	6.18
Unknown counties	4.06	1.56	2.04	4.24	1.12
Mixed counties	--	--	--	1.87	--
Illegal areas	2.03	0.14	1.22	1.87	4.46
STATE TOTALS	100	100	100	100	100

*Closed Season.

Table 9. Distribution of sage grouse hunting pressure by region and county, 1971-75.

Region and County	1971	1972	1973	1974	1975
<u>Northern</u>					
Box Elder	16.90	16.70	11.06	6.38	7.45
Cache	5.96	8.76	10.66	12.44	10.16
Davis	1.69	0.92	--	0.65	0.95
Morgan	2.29	2.95	4.28	3.80	2.40
Rich	6.86	10.08	9.06	8.48	6.25
Summit	6.16	7.33	6.67	6.54	8.27
Weber	4.67	4.28	2.59	4.93	6.06
REGIONAL TOTALS	44.53	51.02	44.32	43.21	41.54
<u>Central</u>					
Juab	**	0.20	0.80	0.89	0.38
Salt Lake	**	**	**	**	**
Sanpete	1.09	1.53	2.69	0.81	**
Tooele	4.17	3.46	5.28	4.68	3.09
Utah	3.18	3.46	7.17	6.95	11.81
Wasatch	2.49	1.73	1.59	2.58	4.92
REGIONAL TOTALS	12.52	10.79	18.43	20.84	23.99
<u>Southern</u>					
Beaver	1.89	1.63	1.89	1.53	1.20
Garfield	4.97	4.48	5.08	3.88	4.36
Iron	1.49	1.83	1.39	0.73	1.45
Kane	0.40	0.20	0.30	0.24	0.25
Millard	--	0.41	--	0.16	0.25
Piute	1.29	1.73	1.10	0.89	1.01
Sevier	2.19	2.85	2.39	1.94	3.85
Washington	0.30	**	**	**	**
Wayne	9.05	3.67	5.58	4.52	6.06
REGIONAL TOTALS	21.57	16.80	17.93	13.97	18.50
<u>Northeastern</u>					
Daggett	1.09	1.73	1.10	1.13	1.39
Duchesne	4.57	4.89	4.88	4.04	2.15
Uintah	6.66	7.94	5.28	4.85	4.99
REGIONAL TOTALS	12.33	14.56	11.25	10.02	8.52
<u>Southeastern</u>					
Carbon	3.48	2.04	2.59	2.67	4.10
Emery	0.89	0.20	1.00	0.24	0.69
Grand	0.30	0.10	**	**	0.00
San Juan	0.80	0.51	1.39	0.65	0.76
REGIONAL TOTALS	5.47	2.85	5.28	3.55	5.56
Unknown counties	3.58	3.97	2.69	7.59	1.89
Mixed counties	--	--	--	0.81	--
Illegal areas	1.89	0.41	1.40	5.01	3.85
STATE TOTALS	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, 1951-75.

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
1973	10,017	13,926	19,049	0.73	1.39
1974	12,214	15,215	23,516	0.65	1.25
1975	13,996	18,916	25,720	0.74	1.35
TOTALS					
(1963-75)	124,124	166,923	202,509	0.82	1.34
AVERAGES					
(1963-74)	9,177	12,334	14,732	0.88	1.34

*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, 1975.

Region and County	ALL HUNTS				COMPLETE HUNTS				
	Total Parties	Total Hunters	Total Hours	Total Birds/100 hrs.	Total Complete Hunts	Total Hunters	Total Hours	Total Birds/100 hrs.	Birds/Hunter
Northern									
Box Elder	68	194	596	144	24	24	596	144	0.74
Cache	72	178	674	68	10	10	674	68	0.38
Davis	--	--	--	--	--	--	--	--	--
Morgan	3	11	15	4	27	3	15	4	0.36
Rich	183	484	2186	214	10	10	2118	203	0.45
Summit	25	69	213	33	15	15	185	33	0.61
Weber	11	22	140	9	6	6	138	9	0.45
REGIONAL TOTALS	362	958	3824	472	12	12	3726	461	0.51
Central									
Juab	--	--	--	--	--	--	--	--	--
Salt Lake	--	--	--	--	--	--	--	--	--
Sanpete	--	--	--	--	--	--	--	--	--
Tooele	41	141	400	64	16	16	106	41	0.95
Utah	--	--	--	--	--	--	--	--	--
Wasatch	40	116	315	50	16	16	198	36	0.65
REGIONAL TOTALS	81	257	715	114	16	16	304	77	0.79
Southern									
Beaver	11	28	60	21	35	4	30	7	0.78
Garfield	56	178	519	131	25	19	120	13	0.26
Iron	26	74	193	57	30	5	89	33	1.74
Kane	--	--	--	--	--	--	--	--	--
Millard	--	--	--	--	--	--	--	--	--
Pfute	--	--	--	--	--	--	--	--	--
Sevier	6	16	40	7	18	1	16	2	0.50
Washington	--	--	--	--	--	--	--	--	--
Wayne	142	369	1892	296	16	107	1467	255	0.91
REGIONAL TOTALS	241	665	2704	512	19	136	1722	310	0.86
Northeastern									
Daggett	14	33	88	18	20	9	60	17	0.81
Duchesne	18	62	159	41	26	6	50	19	1.06
Uintah	86	238	661	211	32	49	400	134	1.21
REGIONAL TOTALS	118	333	908	270	30	64	510	170	1.13
Southeastern									
Carbon	10	29	53	9	17	5	28	4	0.31
Emery	--	--	--	--	--	--	--	--	--
Grand	--	--	--	--	--	--	--	--	--
San Juan	5	11	28	6	21	4	24	6	0.67
REGIONAL TOTALS	15	40	81	15	19	9	52	10	0.45
STATE TOTALS	817	2253	8232	1383	17	586	6314	1028	0.67

Table 12. Sage grouse hunter success trend determined by field bag checks.

Region and County	1970		1971		1972		1973		1974		1975	
	Birds/ 100 hrs. Hunter	Birds/ Hunter	Birds/ 100 hrs. Hunter	Birds/ Hunter	Birds/ 100 hrs. Hunter	Birds/ Hunter	Birds/ 100 hrs. Hunter	Birds/ Hunter	Birds/ 100 hrs. Hunter	Birds/ Hunter	Birds/ 100 hrs. Hunter	Birds/ Hunter
Northern												
Box Elder	24	1.00	19	0.99	15	0.88	19	0.75	12	0.57	24	0.74
Cache	35	1.10	7	0.29	7	0.31	13	0.52	9	0.42	10	0.38
Davis	27	0.98	--	--	--	--	--	--	--	--	--	--
Morgan	--	--	10	0.21	6	0.29	41	0.92	--	--	27	0.36
Rich	--	--	14	0.55	11	0.50	9	0.36	12	0.58	10	0.45
Summit	--	--	26	1.00	6	0.29	8	--	27	0.41*	15	0.61
Weber	10	0.52	9	0.38	7	0.32	3	0.15	5	0.18	6	0.45
REGIONAL TOTALS	24	0.99	16	0.73	13	0.68	13	0.55	11	0.51	12	0.51
Central												
Juab	50	--	--	--	--	--	--	--	--	--	--	--
Salt Lake	16	0.28	--	--	--	--	--	--	--	--	--	--
Sanpete	21	0.61	6	0.37	--	--	--	--	--	--	--	--
Tooele	20	2.18	16	0.68	22	0.46	20	1.27	22	0.83	16	0.95
Utah	26	0.77	--	--	--	--	--	--	--	--	--	--
Wasatch	--	--	--	--	--	--	--	--	--	--	16	0.65
REGIONAL TOTALS	21	0.61	13	0.61	22	0.46	20	1.27	22	0.83	16	0.79
Southern												
Beaver	19	0.67	--	--	--	--	0	0.00	27	0.61	35	0.78
Garfield	20	0.50	21	0.72	20	1.22	23	0.74	21	0.88	25	0.26
Iron	19	0.77	34	1.02	10	0.07	133	1.33	--	--	30	1.74
Kane	--	--	--	--	--	--	--	--	--	--	--	--
Millard	12	0.98	--	--	--	--	--	--	--	--	--	--
Piute	32	1.32	23	1.00	12	1.20	18	0.75	--	--	--	--
Sevier	25	1.36	--	--	--	--	--	--	--	--	18	0.50
Washington	7	0.43	--	--	--	--	--	--	--	--	--	--
Wayne	--	--	13	0.65	13	0.73	15	1.09	20	0.98	16	0.91
REGIONAL TOTALS	18	1.07	15	0.67	14	0.75	20	0.92	21	0.92	19	0.86
Northeastern												
Daggett	--	--	38	1.14	15	1.00	20	0.25	30	0.73	20	0.81
Duchesne	15	0.99	29	0.86	28	2.00	31	1.29	14	0.31	26	1.06
Uintah	19	1.16	40	1.48	56	1.46	20	1.27	23	0.71	32	1.21
REGIONAL TOTALS	17	1.06	36	1.24	37	1.40	22	1.17	23	0.68	30	1.13
Southeastern												
Carbon	5	0.10	7	1.00	33	1.00	14	1.00	--	--	17	0.31
Emery	24	0.96	--	--	--	--	0	0.00	--	--	--	--
Grand	--	--	--	--	--	--	--	--	--	--	--	--
San Juan	--	--	29	1.55	--	--	59	0.71	34	1.03	21	0.67
REGIONAL TOTALS	23	0.90	22	1.46	33	1.00	28	0.61	34	1.03	19	0.45
STATE TOTALS	20	0.97	17	0.74	15	0.71	17	0.73	15	0.64	17	0.67

* Sage grouse per hunter index based on all hunts.

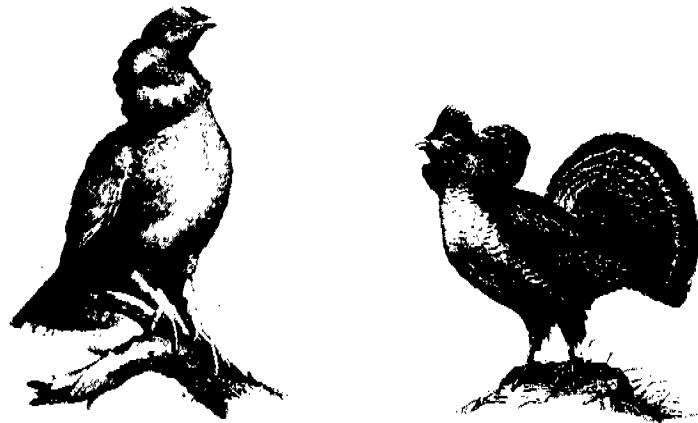
FOREST GROUSE

SUMMARY

Judging from 1974 harvest statistics the 1975 breeding populations of both ruffed grouse and blue grouse should have been at a higher level than in 1974. Results of brood surveys suggested a decline in both species; probably due to reduced production.

The 1975 forest grouse harvest was considerably lower than the record harvest of 1974 but was still over 50 percent higher than the average. Hunting pressure was lower than 1974 but well above average. Hunter success dropped below both 1974 and the average.

It was evident that populations of both ruffed grouse and blue grouse declined from 1974. The proportion of each species in the harvest was slightly below average for ruffed grouse and above average for blue grouse.



Brood Counts

Ruffed Grouse

Results of the annual random brood survey for 1975 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 1975 compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Total ruffed grouse observed	150	-45	-50
Young per 100 adults	241	-10	-22
Mean brood size	3.87	-5	-17
Ruffed grouse observed per 100 hours	12	-57	-73
Total hours effort (Forest grouse)	1,259	+26	+74

Harvest statistics for 1974 indicated an increased ruffed grouse breeding population for 1975.

Total effort on brood counts was greater than both 1974 and the average but total grouse observed dropped substantially. Sample sizes were too small to be meaningful for estimating production. Indicated reproductive success was below both 1974 and the average. Reduced abundance was suggested by the limited data available.

Blue Grouse

Results of the annual random brood survey for 1975 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 1975 compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Total blue grouse observed	413	-54	-29
Young per 100 adults	195	-31	-30
Mean brood size	4.05	-17	-14
Blue grouse observed per 100 hours	33	-64	-59
Total hours effort (Forest grouse)	1,259	+26	+74

Harvest statistics for 1974 indicated a high breeding population for 1975.

Total blue grouse observed during brood counts was well below both 1974 and the average. Production also decreased. Indicated density (grouse observed per 100 hours effort) was also much lower than both 1974 and the average.

A reduced fall population level was indicated; however, the degree of decline suggested by these data may have been biased by the atypical spring and early summer weather.

Harvest

Hunter Questionnaire

Results of the 1975 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 statewide harvest statistics in Table 14. Harvest statistics for 1975 compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Forest grouse hunters	20,102	-8	+54
Forest grouse harvested	42,461	-32	+53
Hunter-days afield	50,579	-8	+96
Forest grouse per hunter-day	0.84	-27	-21
Forest grouse per hunter	2.11	-26	-3
Percent ruffed grouse	37.1	-6	-12
Percent blue grouse	54.5	+6	+7
Percent unidentified	8.4	-7	+17

The total forest grouse harvest for 1975 was somewhat lower than the record harvest of 1974 but was still more than 50 percent higher than the long-term average. Hunting pressure dropped slightly, while hunter success declined to a below average level. The proportion of ruffed grouse in the harvest was slightly below average while blue grouse was slightly above average.

The long-term trend of forest grouse harvest statistics is shown in Figure 1.

Field Bag Checks

A summary of field bag check data for 1975 is found in Table 15. Hunter success trends determined via this method since 1970 are shown in Table 16. Results of the 1975 survey compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Total hunters checked	2,444	+17	+126
Total hours hunted	10,586	+11	+143
Forest grouse per hunter (complete hunts)	0.50	-15	-33
Forest grouse bagged per 100 hours	11	-15	-45
Average hours per hunter-day (complete hunts)	4.6	-4	+12
Hours hunted per grouse bagged	9.3	+15	+72

Hunter success shown by field bag check data was lower than both 1974 and the average. This was consistent with questionnaire results. The average hunter spent slightly less time afield per day. Somewhat more time was spent for each bird bagged.

Forest grouse bagged per hunter and per hunter-day.

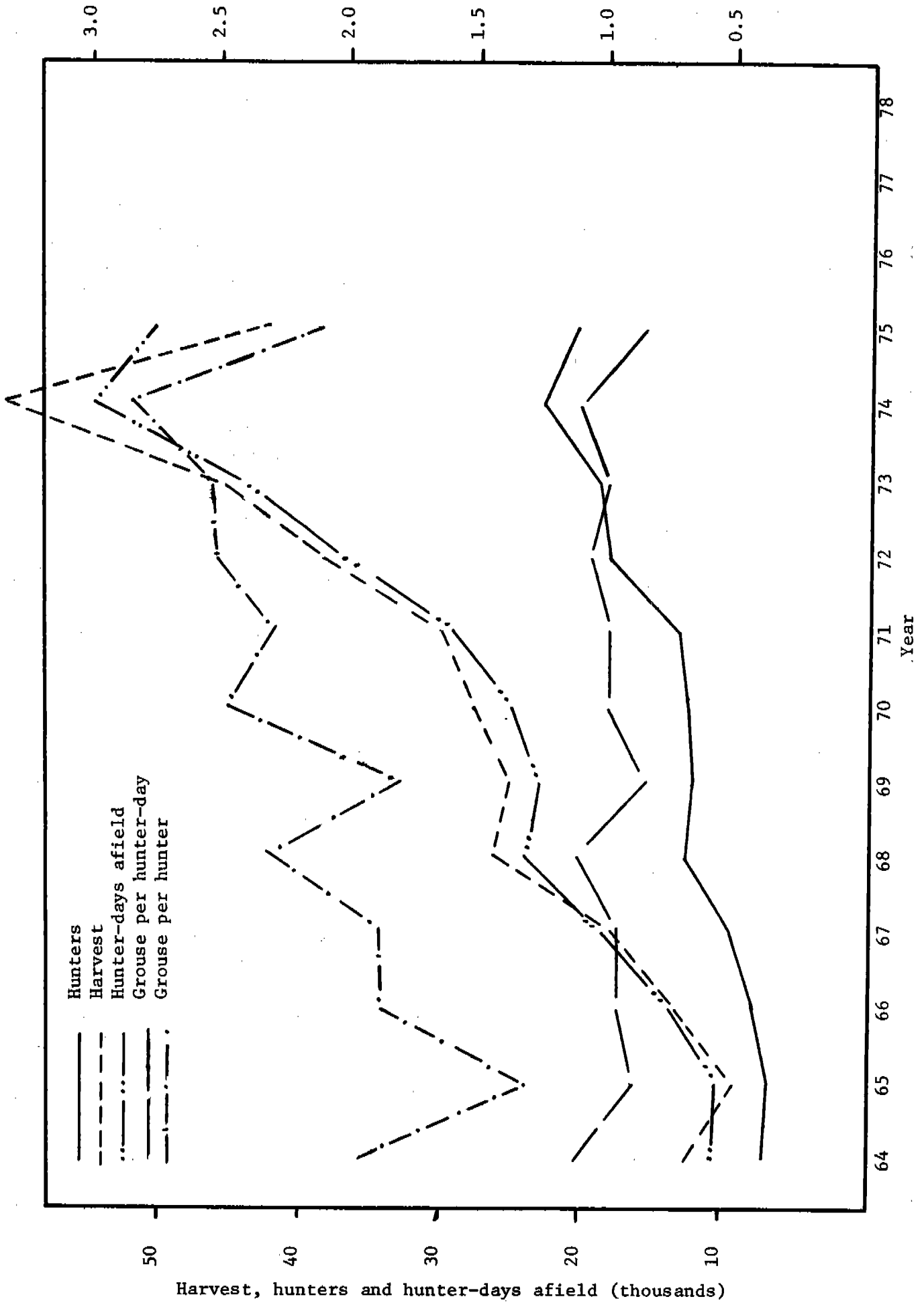


Figure 1. Statewide trends of forest grouse harvest statistics.

Table 1. Ruffed grouse summer inventory summary, 1975.

Region and County	Distinct Broods		Mean Brood	Mixed Yng. & Ad.		Adults w/o Yng.	Total Adults	Total Young	Young/100 Ad.	Grouse/100 Hrs.
	No. Adult	Yng.		Adults	Young					
<u>Northern</u>										
Box Elder	1	5	5.00	0	0	1	2	5	250	54
Cache	6	23	3.83	0	0	1	7	23	329	45
Davis	0	0	---	0	0	0	0	0	---	0
Morgan	0	0	---	0	0	0	0	0	---	0
Rich	4	19	4.75	0	0	2	6	19	317	---
Summit	3	9	3.00	2	4	1	6	13	217	46
Weber	0	0	---	0	0	0	0	0	---	0
Regional Totals	14	56	4.00	2	4	5	21	60	286	41
<u>Central</u>										
Juab	1	5	5.00	0	0	0	1	5	500	27
Salt Lake	0	0	---	0	0	0	0	0	---	0
Sanpete	2	9	4.50	2	5	2	6	14	233	69
Tooele	0	0	---	0	0	0	0	0	---	0
Utah	1	4	4.00	0	0	6	7	4	57	32
Wasatch	0	0	---	0	0	0	0	0	---	0
Regional Totals	4	18	4.50	2	5	8	14	23	164	23
<u>Southern</u>										
Beaver	---	---	---	---	---	---	---	---	---	---
Garfield	0	0	---	0	0	0	0	0	---	0
Iron	0	0	---	0	0	0	0	0	---	0
Kane	0	0	---	0	0	0	0	0	---	0
Millard	---	---	---	---	---	---	---	---	---	---
Piute	0	0	---	0	0	0	0	0	---	0
Sevier	3	7	2.33	0	0	0	3	7	233	2
Washington	0	0	---	0	0	0	0	0	---	0
Wayne	---	---	---	---	---	---	---	---	---	---
Regional Totals	3	7	2.33	0	0	0	3	7	233	2
<u>Northeastern</u>										
Daggett	0	0	---	0	0	0	0	0	---	0
Duchesne	1	6	6.00	0	0	0	1	6	600	11
Uintah	0	0	---	0	0	0	0	0	---	0
Regional Totals	1	6	6.00	0	0	0	1	6	600	5
<u>Southeastern</u>										
Carbon	1	2	2.00	2	8	2	5	10	200	33
Emery	0	0	---	0	0	0	0	0	---	0
Grand	0	0	---	0	0	0	0	0	---	0
San Juan	0	0	---	0	0	0	0	0	---	0
Regional Totals	1	2	2.00	2	8	2	5	10	200	11
STATE TOTALS	23	23	3.87	6	17	15	44	106	241	12

Table 2. Trend of ruffed grouse young per 100 adults ratios, 1963-75.

Region and County	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	Average 1963-74
Northern Region														
Box Elder	--	--	--	400	--	--	--	--	--	--	--	0	250	
Cache	362	--	314	630	425	225	321	468	383	900	--	300	329	
Davis	300	--	--	525	600	400	0	--	--	388	--	--	--	
Morgan	--	240	--	200	--	--	200	400	540	--	--	400	--	
Rich	300	--	--	300	300	150	--	--	--	375	600	--	317	
Summit	--	--	0	--	--	500	333	500	514	650	333	500	217	
Weber	--	--	600	257	--	450	143	--	340	--	450	--	--	
Regional Totals	331	240	280	522	427	292	260	471	426	453	417	369	286	374
Central Region														
Juab	--	--	--	--	550	275	333	470	325	--	300	400	500	
Salt Lake	--	--	--	0	150	470	133	470	100	--	--	125	--	
Sanpete	--	--	--	228	259	300	171	300	240	329	264	195	233	
Tooele	--	--	--	--	--	--	--	--	--	--	--	--	--	
Utah	--	--	--	450	433	267	267	256	300	475	125	313	57	
Wasatch	--	--	--	450	--	--	--	--	--	300	--	--	--	
Regional Totals	226	171	311	375	333	236	214	331	242	358	231	221	164	271
Southern Region														
Beaver	--	--	--	--	--	--	97	--	200	--	--	--	--	
Garfield	--	--	--	--	--	--	--	--	--	--	--	200	--	
Iron	--	--	--	--	--	--	--	--	--	--	--	--	--	
Kane	--	--	--	0	--	--	--	--	--	--	--	--	--	
Millard	--	--	--	500	--	--	225	183	280	--	--	--	--	
Piute	--	--	--	--	--	--	--	--	300	--	--	--	--	
Sevier	560	200	225	362	243	425	400	533	221	333	311	500	233	
Washington	--	--	--	--	--	--	--	--	--	--	--	--	--	
Wayne	--	--	--	--	--	--	200	--	--	--	367	--	--	
Regional Totals	560	200	225	378	189	425	139	300	235	333	325	147	233	287
Northeastern Region														
Daggett	--	--	--	--	--	--	--	--	--	--	--	--	--	
Duchesne	457	--	--	450	225	800	800	225	--	367	--	333	600	
Uintah	--	--	--	0	700	700	700	250	375	--	--	600	--	
Regional Totals	457	--	--	386	766	233	375	375	367	367	--	400	600	427
Southeastern Region														
Carbon	--	--	--	40	--	0	--	--	--	--	--	480	200	
Emery	300	500	300	350	700	500	400	700	500	--	300	400	--	
Grand	--	--	--	--	--	--	--	--	--	--	--	--	--	
San Juan	--	--	257	--	--	--	--	--	--	--	--	--	--	
Regional Totals	300	500	267	128	400	489	500	300	467	200	300	467	200	375
STATE TOTALS	306	212	285	468	335	268	219	372	308	385	297	267	241	310

Table 3. Trend of ruffed grouse mean brood size, 1971-75.

Region and County	1971	1972	1973	1974	1975	Averages 1962-74
Northern						
Box Elder	--	--	--	--	5.00	
Cache	5.55	9.00	--	5.00	3.83	
Davis	--	4.80	--	--	--	
Morgan	6.75	--	--	4.00	--	
Rich	--	3.75	6.00	--	4.75	
Summit	6.00	6.50	5.00	5.00	3.00	
Weber	8.00	--	4.50	--	--	
Regional Totals	6.09	5.08	5.00	4.54	4.00	4.89
Central						
Juab	4.33	--	3.00	4.00	5.00	
Salt Lake	4.00	--	--	4.00	--	
Sanpete	5.50	4.67	4.60	3.00	4.50	
Tooele	--	--	--	--	--	
Utah	3.75	4.75	5.00	4.25	4.00	
Wasatch	--	3.00	--	--	--	
Regional Totals	4.75	4.55	4.43	3.44	4.50	4.43
Southern						
Beaver	5.00	--	--	--	--	
Garfield	--	--	--	2.00	--	
Iron	--	--	--	--	--	
Kane	--	--	--	--	--	
Millard	4.67	--	--	--	--	
Piute	3.00	--	--	--	--	
Sevier	3.83	4.29	4.00	5.00	2.33	
Washington	--	--	--	--	--	
Wayne	--	--	5.50	--	--	
Regional Totals	4.08	4.29	4.33	4.40	2.33	3.97
Northeastern						
Daggett	--	--	--	--	--	
Duchesne	--	3.67	--	3.33	6.00	
Uintah	5.00	--	--	6.00	--	
Regional Totals	5.00	3.67	--	4.00	6.00	4.66
Southeastern						
Carbon	--	--	--	4.80	2.00	
Emery	5.00	--	5.00	4.00	--	
Grand	--	--	--	--	--	
San Juan	--	--	--	--	--	
Regional Totals	5.00	--	5.00	4.67	2.00	4.77
STATE TOTALS	5.16	4.61	4.58	4.09	3.87	4.65

Table 4 Trend of ruffed grouse observed per 100 hours, 1967-75.

Region and County	1967	1968	1969	1970	1971	1972	1973	1974	1975	Averages 1967-74
<u>Northern</u>										
Box Elder	--	2	--	--	--	--	--	2	54	
Cache	--	54	83	270	67	14	--	34	45	
Davis	--	31	3	--	--	244	--	0	0	
Morgan	--	--	58	62	128	--	--	136	0	
Rich	--	62	--	--	--	61	140	--	--	
Summit	--	40	63	42	108	100	62	185	46	
Weber	--	92	44	--	73	--	--	--	--	
REGIONAL TOTALS	37	33	50	80	77	39	24	49	41	49
<u>Central</u>										
Juab	206	500	158	179	142	--	33	250	27	
Salt Lake	--	111	20	47	16	--	0	30	0	
Sanpete	87	316	158	143	167	240	129	124	69	
Tooele	--	--	--	--	--	--	0	0	0	
Utah	21	61	63	32	40	37	23	73	32	
Wasatch	100	--	--	--	0	50	--	--	0	
REGIONAL TOTALS	58	395	78	81	85	84	50	71	23	113
<u>Southern</u>										
Beaver	--	--	314	--	250	--	--	0	--	
Garfield	--	--	--	--	--	--	0	38	0	
Iron	--	--	--	--	--	--	--	0	0	
Kane	--	--	--	--	--	--	0	--	0	
Millard	--	--	--	213	317	--	0	0	--	
Piute	--	--	--	--	267	--	--	--	0	
Sevier	--	--	--	--	28	22	10	8	2	
Washington	--	--	--	--	--	--	--	0	0	
Wayne	--	--	--	--	--	--	117	0	--	
REGIONAL TOTALS	78	--	314	62	35	15	12	8	2	75
<u>Northeastern</u>										
Daggett	--	--	--	--	0	--	0	0	0	
Duchesne	--	157	58	29	0	28	0	30	11	
Uintah	--	20	88	18	83	--	0	16	0	
REGIONAL TOTALS	--	119	65	23	83	10	0	20	5	46
<u>Southeastern</u>										
Carbon	--	61	--	5	0	--	0	53	33	
Emery	--	16	30	16	46	--	67	42	0	
Grand	--	--	--	--	--	--	0	--	0	
San Juan	--	--	--	--	--	--	0	0	0	
REGIONAL TOTALS	--	17	30	12	46	--	28	26	11	26
STATE TOTALS	48	70	59	55	54	28	18	28	12	45

Table 5. Blue grouse summer inventory summary, 1975.

Region and County	Distinct Broods		Mean Brood	Mixed Yng. & Ad.		Adults w/o Yng.	Total Adults	Total Young	Young/100 Ad.	Grouse/100 Hrs.
	No.	Adult Yng.		Adults	Young					
Northern										
Box Elder	1	1	3.00	0	0	2	3	3	100	46
Cache	10	10	5.30	2	11	6	18	64	356	124
Davis	0	0	--	0	0	1	1	0	0	10
Morgan	4	4	3.25	0	0	6	10	13	130	35
Rich	1	1	5.00	0	0	2	3	5	167	--
Summit	4	4	2.75	6	9	4	14	20	143	83
Weber	0	0	--	0	0	5	5	0	0	125
Regional Totals	20	20	4.25	8	20	26	54	105	194	80
Central										
Juab	1	1	5.00	0	0	0	1	5	500	27
Salt Lake	1	1	1.00	0	0	3	4	1	25	14
Sanpete	0	0	--	0	0	0	0	0	--	0
Tooele	2	2	3.50	2	5	10	14	12	86	108
Utah	0	0	--	0	0	4	4	0	0	118
Wasatch	1	1	4.00	0	0	0	1	4	400	36
Regional Totals	5	5	3.40	2	5	17	24	22	92	29
Southern										
Beaver	--	--	--	--	--	--	--	--	--	--
Garfield	2	2	6.00	0	0	1	3	12	400	56
Iron	--	--	--	--	--	--	--	--	--	--
Kane	0	0	--	0	0	0	0	0	--	0
Millard	--	--	--	--	--	--	--	--	--	--
Piute	0	0	--	0	0	0	0	0	--	0
Sevier	22	22	3.82	0	0	14	36	84	233	21
Washington	0	0	--	0	0	0	0	0	--	0
Wayne	--	--	--	--	--	--	--	--	--	--
Regional Totals	24	24	4.00	0	0	15	39	96	246	21
Northeastern										
Daggett	0	0	--	0	0	0	0	0	--	0
Duchesne	1	1	7.00	0	0	1	2	7	350	14
Uintah	2	2	4.50	0	0	1	3	9	300	27
Regional Totals	3	3	5.33	0	0	2	5	16	320	15
Southeastern										
Carbon	3	3	3.33	0	0	3	6	10	167	35
Emery	0	0	--	0	0	0	0	0	--	0
Grand	2	2	4.00	0	0	2	4	8	200	33
San Juan	2	2	3.50	2	9	4	8	16	200	53
Regional Totals	7	7	3.57	2	9	9	18	34	189	39
STATE TOTALS	59	59	4.05	12	34	69	140	273	195	33

Table 6. Trend of blue grouse young per 100 adults ratios, 1963 - 75.

Region and County	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	Averages 1963-74
Northern Region														
Box Elder	254	700	200	--	133	382	222	389	--	500	--	236	100	
Cache	333	--	200	487	350	318	154	316	245	288	192	357	356	
Davis	250	--	--	442	400	138	250	--	520	82	--	300	0	
Morgan	--	425	--	400	--	--	500	600	533	250	375	300	130	
Rich	--	--	500	--	333	--	--	300	--	300	--	--	167	
Summit	--	--	200	--	450	--	400	433	600	533	314	--	143	
Weber	528	--	600	567	500	500	325	--	557	68	700	625	0	
Regional Totals	317	517	265	478	193	289	248	361	305	191	222	305	194	307
Central Region														
Juab	--	--	--	--	300	--	383	--	--	--	50	--	500	
Salt Lake	--	--	--	--	0	--	175	900	67	--	0	300	25	
Sanpete	--	--	--	--	267	467	--	283	425	156	300	--	--	
Tooele	--	--	--	--	800	400	--	--	--	--	143	179	86	
Utah	--	--	--	--	275	267	230	314	422	375	415	222	0	
Wasatch	--	--	--	--	333	360	--	550	450	600	--	333	400	
Regional Totals	347	344	567	612	326	337	231	389	324	321	285	218	92	358
Southern Region														
Beaver	--	--	--	--	--	238	--	--	--	--	--	500	--	
Garfield	--	--	--	--	--	140	--	100	600	133	--	--	400	
Iron	--	--	--	700	--	400	8	--	267	--	--	150	--	
Kane	--	--	--	--	233	--	--	150	200	240	211	--	--	
Millard	--	--	--	--	--	--	--	--	280	67	--	450	--	
Piute	--	--	--	--	--	200	--	--	--	--	--	--	--	
Sevier	76	200	40	69	67	--	--	140	136	100	100	320	233	
Washington	--	--	--	0	366	--	38	170	--	271	533	350	--	
Wayne	--	300	--	900	--	--	182	--	--	--	--	400	--	
Regional Totals	76	240	40	150	160	224	75	135	213	149	192	313	246	164
Northeastern Region														
Daggett	--	--	--	--	--	150	350	--	--	286	286	567	--	
Duchesne	--	600	317	--	200	257	433	--	400	275	600	300	350	
Uintah	--	--	500	--	666	--	480	400	167	557	500	250	300	
Regional Totals	--	600	343	--	555	186	414	400	225	339	344	311	320	372
Southeastern Region														
Carbon	--	--	--	--	--	138	--	0	167	92	--	243	167	
Emery	300	--	575	--	300	250	--	450	300	--	667	--	--	
Grand	--	--	--	--	--	--	--	--	--	114	0	43	200	
San Juan	--	--	0	--	200	400	456	153	386	375	--	242	200	
Regional Totals	300	--	383	--	250	288	456	139	310	216	333	188	189	286
STATE TOTALS	258	381	312	354	246	268	235	253	292	224	237	284	195	278

Table 7. Trend of blue grouse mean brood size, 1971-75.

Region and County	1971	1972	1973	1974	1975	Averages 1962-74
Northern						
Box Elder	--	5.00	--	5.06	3.00	
Cache	5.18	5.50	4.66	4.95	5.30	
Davis	6.25	2.67	--	--	--	
Morgan	5.33	5.33	5.50	4.62	3.25	
Rich	--	4.50	--	--	5.00	
Summit	6.00	5.33	4.40	--	2.75	
Weber	6.50	4.75	7.00	6.25	--	
Regional Totals	5.54	4.96	4.79	5.00	4.25	4.85
Central						
Juab	--	--	1.00	--	5.00	
Salt Lake	2.00	--	--	6.00	1.00	
Sanpete	4.25	2.80	3.00	--	--	
Tooele	--	--	6.00	4.40	3.50	
Utah	4.22	4.22	5.38	5.00	--	
Wasatch	4.50	6.00	--	5.00	4.00	
Regional Totals	4.00	4.12	4.54	4.83	3.40	4.63
Southern						
Beaver	--	--	--	5.00	--	
Garfield	6.00	4.00	--	--	6.00	
Iron	8.00	--	--	3.00	--	
Kane	6.00	3.33	6.33	--	--	
Millard	4.67	2.00	--	4.50	--	
Piute	--	--	--	--	--	
Sevier	3.00	2.62	3.00	5.89	3.82	
Washington	--	4.00	5.33	3.50	--	
Wayne	--	--	--	4.00	--	
Regional Totals	4.45	3.06	4.55	5.31	4.00	3.74
Northeastern						
Daggett	--	5.00	5.00	5.67	--	
Duchesne	4.00	4.71	6.00	4.22	7.00	
Uintah	2.50	6.50	5.00	5.00	4.50	
Regional Totals	3.00	5.21	5.20	4.71	5.33	5.31
Southeastern						
Carbon	5.00	6.00	--	3.40	3.33	
Emery	3.00	--	6.67	--	--	
Grand	--	2.67	--	1.50	4.00	
San Juan	5.25	6.17	--	4.83	3.50	
Regional Totals	4.82	5.50	6.67	3.77	3.57	5.01
STATE TOTALS	4.86	4.64	4.81	4.88	4.05	4.71

Table 8. Trend of blue grouse observed per 100 hours, 1967-75.

Region and County	1967	1968	1969	1970	1971	1972	1973	1974	1975	Averages 1967-74
Northern										
Box Elder	--	129	412	99	--	35	0	273	46	
Cache	--	192	146	198	171	133	409	271	124	
Davis	--	194	170	--	194	125	--	80	10	
Morgan	--	--	50	88	76	125	173	400	35	
Rich	--	--	--	33	--	39	0	--	--	
Summit	--	--	32	56	18	127	138	8	83	
Weber	--	150	364	--	153	147	--	--	125	
REGIONAL TOTALS	63	103	127	97	135	111	266	274	80	147
Central										
Juab	138	--	175	--	0	--	25	0	27	
Salt Lake	2	--	64	28	20	--	20	27	14	
Sanpete	68	68	--	43	34	92	39	0	0	
Tooele	675	500	--	--	--	--	94	144	108	
Utah	32	106	38	63	94	92	172	64	118	
Wasatch	100	87	--	260	1,100	262	--	433	36	
REGIONAL TOTALS	64	97	52	57	51	98	95	57	29	72
Southern										
Beaver	--	88	--	--	--	--	--	300	--	
Garfield	--	240	--	86	45	10	0	25	56	
Iron	--	143	140	15	42	--	--	167	--	
Kane	--	--	--	111	51	--	76	--	0	
Millard	--	--	--	--	317	83	0	122	--	
Piute	--	54	--	--	--	--	--	--	0	
Sevier	--	--	38	--	16	23	7	40	21	
Washington	--	--	86	174	--	260	--	129	0	
Wayne	--	--	--	--	--	--	8	--	--	
REGIONAL TOTALS	116	102	56	162	29	37	18	47	21	72
Northeastern										
Daggett	--	1,400	193	--	0	146	45	182	0	
Duchesne	10	119	33	--	13	90	13	130	14	
Uintah	255	--	156	41	35	87	19	78	27	
REGIONAL TOTALS	51	210	150	41	18	104	27	112	15	89
Southeastern										
Carbon	--	543	9	32	80	258	0	44	35	
Emery	29	12	--	12	31	--	77	0	0	
Grand	--	--	--	--	13	103	19	25	33	
San Juan	75	158	196	211	178	238	0	158	53	
REGIONAL TOTALS	33	67	98	40	97	216	36	56	39	80
STATE TOTALS	67	101	84	71	71	95	66	91	33	81

Table 9. Summary of effort expended on forest grouse brood counts, 1975.

Region and County	Vehicle Miles Traveled	Hours Effort Expended			Total
		Vehicle	Horseback	Walking	
Northern					
Box Elder	140	12	0	1	13
Cache	794	51	6	9	66
Davis	120	7	0	3	10
Morgan	30	13	52	0	65
Rich	Incidental observations only				
Summit	110	10	28	3	41
Weber	0	0	0	4	4
Regional Totals	1,194	93	86	20	199
Central					
Juab	110	4	0	18	22
Salt Lake	168	4	0	33	37
Sanpete	189	13	15	1	29
Tooele	249	10	8	6	24
Utah	441	34	0	0	34
Wasatch	130	10	0	4	14
Regional Totals	1,287	75	23	62	160
Southern					
Beaver	--	--	--	--	--
Garfield	466	19	0	8	27
Iron	12	2	8	3	13
Kane	107	7	0	1	8
Millard	--	--	--	--	--
Piute	10	1	0	0	1
Sevier	0	0	560	0	560
Washington	180	16	0	4	20
Wayne	--	--	--	--	--
Regional Totals	775	45	568	16	629
Northeastern					
Daggett	305	12	16	0	28
Duchesne	675	43	15	6	64
Uintah	494	33	7	4	44
Regional Totals	1,474	88	38	10	136
Southeastern					
Carbon	389	37	8	1	46
Emery	170	8	0	0	8
Grand	374	26	0	10	36
San Juan	543	34	6	5	45
Regional Totals	1,476	105	14	16	135
STATE TOTALS	6,206	406	729	124	1,259

Table 10. Summary of forest grouse hunter success and distribution of harvest and hunting pressure by region and county, 1975.

Region and County	Hunters Reporting	Days Hunted	Birds Bagged			Total	Birds/Day	Birds/Hunter*	% of Pressure	% of Harvest
			Ruffed	Blue	Unident.					
Northern										
Box Elder	35	64	10	51	11	72	1.12	2.36	2.05	2.75
Cache	264	622	225	456	20	701	1.13	2.94	19.97	26.81
Davis	45	126	28	61	3	92	0.73	2.02	4.04	3.52
Morgan	48	167	44	83	15	142	0.85	5.29	5.36	5.43
Rich	55	104	49	35	1	85	0.82	0.00	3.34	3.25
Summit	72	158	47	62	17	126	0.80	1.91	5.07	4.82
Weber	125	253	90	125	4	219	0.87	2.36	8.12	8.37
Regional Totals	644	1,494	493	873	71	1,437	0.96	2.45	47.96	54.95
Central										
Juab	24	43	22	12	3	37	0.86	2.56	1.38	1.41
Salt Lake	44	88	25	31	6	62	0.70	1.66	2.83	2.37
Sanpete	77	163	51	43	12	106	0.65	1.62	5.23	4.05
Tooele	22	54	12	34	2	48	0.89	2.96	1.73	1.84
Utah	149	417	138	111	45	294	0.71	2.01	13.39	11.24
Wasatch	74	159	56	67	36	159	1.00	4.10	5.10	6.08
Regional Totals	390	924	304	298	104	706	0.76	1.91	29.66	27.00
Southern										
Beaver	12	34	2	15	1	18	0.53	1.55	1.09	0.69
Garfield	9	15	2	7	2	11	0.73	0.71	0.48	0.42
Iron	32	69	15	24	8	47	0.68	1.71	2.22	1.80
Kane	5	8	0	3	1	4	0.50	0.50	0.26	0.15
Millard	20	43	4	24	0	28	0.65	1.26	1.38	1.07
Piute	10	18	1	4	1	6	0.33	2.00	0.58	0.23
Sevier	69	162	31	74	14	119	0.73	2.04	5.20	4.55
Washington	6	14	9	2	0	11	0.79	2.50	0.45	0.42
Wayne	6	10	5	4	1	10	1.00	0.00	0.32	0.38
Regional Totals	169	373	69	157	28	254	0.68	1.70	11.97	9.71
Northeastern										
Daggett	11	42	11	8	2	21	0.50	2.00	1.35	0.80
Duchesne	24	46	18	15	0	33	0.72	0.60	1.48	1.26
Uintah	32	59	19	32	6	57	0.97	1.91	1.89	2.18
Regional Totals	67	147	48	55	8	111	0.76	1.62	4.72	4.24
Southeastern										
Carbon	36	79	23	21	1	45	0.57	1.45	2.54	1.72
Emery	13	38	4	12	0	16	0.42	0.25	1.22	0.61
Grand	3	6	5	0	0	5	0.83	1.67	0.19	0.19
San Juan	10	16	0	1	6	7	0.44	0.25	0.51	0.27
Regional Totals	62	139	32	34	7	73	0.53	1.21	4.46	2.79
Unknown counties	22	38	24	8	2	34	0.89	2.00	1.22	1.30
Mixed counties	0	0	0	0	0	0	0.00	0.00	0.00	0.00
STATE TOTALS	1,354	3,115	970	1,425	220	2,615	0.84	2.11	100	100

*Based on county of residence.

Table 11. Summary of forest grouse bagged per hunter-day by region and county, 1971-75.

Region and County	1971	1972	1973	1974	1975
Northern					
Box Elder	1.07	1.32	0.79	0.92	1.12
Cache	1.36	1.14	1.04	1.39	1.13
Davis	0.47	0.85	1.31	0.69	0.73
Morgan	1.40	1.73	1.25	1.29	0.85
Rich	1.35	1.15	1.18	0.89	0.82
Summit	0.89	0.77	1.04	1.03	0.80
Weber	1.11	1.42	0.99	1.14	0.87
Regional Totals	1.17	1.20	1.04	1.19	0.96
Central					
Juab	1.21	0.50	0.69	1.25	0.86
Salt Lake	1.26	1.26	1.35	1.08	0.70
Sanpete	0.92	1.40	0.88	1.12	0.65
Tooele	0.57	0.70	0.70	0.66	0.89
Utah	1.02	1.13	1.03	1.03	0.71
Wasatch	1.36	1.00	0.95	0.89	1.00
Regional Totals	1.08	1.10	0.98	1.03	0.76
Southern					
Beaver	0.80	1.00	0.93	0.25	0.53
Garfield	0.00	0.60	0.27	0.17	0.73
Iron	1.00	0.71	0.96	0.86	0.68
Kane	0.63	0.69	0.64	2.00	0.50
Millard	1.50	0.68	1.42	1.66	0.65
Piute	1.33	0.20	1.10	0.71	0.33
Sevier	0.95	0.87	1.18	1.39	0.73
Washington	1.00	--	2.00	--	0.79
Wayne	0.00	1.50	0.00	0.63	1.00
Regional Totals	0.92	0.75	1.05	1.14	0.68
Northeastern					
Daggett	0.50	1.37	0.30	1.11	0.50
Duchesne	1.64	1.23	1.06	0.76	0.72
Uintah	0.52	0.40	0.85	1.49	0.97
Regional Totals	0.96	0.93	0.83	1.14	0.76
Southeastern					
Carbon	0.65	1.03	1.11	0.79	0.57
Emery	0.45	1.00	0.50	0.87	0.42
Grand	1.00	0.67	0.13	0.50	0.83
San Juan	--	2.00	1.20	1.00	0.44
Regional Totals	0.61	1.06	0.90	0.81	0.53
Unknown counties	1.11	0.57	1.06	1.35	0.89
Mixed counties	2.00	--	0.00	--	0.00
STATE TOTALS	1.10	1.09	1.01	1.13	0.84

Table 12. Distribution of forest grouse harvest by region and county, 1971-75.

Region and County	1971	1972	1973	1974	1975
Northern					
Box Elder	2.88	5.01	3.15	3.01	2.75
Cache	27.41	24.23	27.39	29.84	26.81
Davis	1.94	2.08	2.47	1.55	3.52
Morgan	3.28	4.69	3.61	3.29	5.43
Rich	4.62	3.19	3.27	4.05	3.25
Summit	3.62	4.31	5.91	4.65	4.82
Weber	10.52	17.09	6.54	7.85	8.37
Regional Totals	54.29	60.60	52.35	54.24	54.95
Central					
Juab	2.28	0.91	1.01	3.38	1.41
Salt Lake	3.89	3.35	2.89	2.92	2.37
Sanpete	3.69	4.10	4.24	4.78	4.05
Tooele	0.80	0.37	0.80	0.70	1.84
Utah	12.73	12.14	14.35	12.32	11.24
Wasatch	6.03	3.51	4.24	4.05	6.08
Regional Totals	29.42	24.39	27.52	28.14	27.00
Southern					
Beaver	0.54	0.48	0.55	0.21	0.69
Garfield	0.00	0.32	0.13	0.06	0.42
Iron	0.60	1.28	1.97	0.58	1.80
Kane	0.34	0.59	0.38	0.06	0.15
Millard	0.80	0.80	1.55	2.92	1.07
Piute	1.07	0.11	0.92	0.15	0.23
Sevier	3.49	2.56	3.61	3.01	4.55
Washington	0.07	--	0.08	--	0.42
Wayne	0.00	0.16	0.00	0.15	0.38
Regional Totals	6.90	6.28	9.19	7.15	9.71
Northeastern					
Daggett	0.40	1.17	0.29	0.61	0.80
Duchesne	2.41	1.97	2.10	1.25	1.26
Uintah	0.74	0.64	1.17	2.68	2.18
Regional Totals	3.55	3.78	3.56	4.53	4.24
Southeastern					
Carbon	1.47	1.86	3.52	1.34	1.72
Emery	0.34	0.53	0.59	0.79	0.61
Grand	0.07	0.11	0.04	0.03	0.19
San Juan	--	0.32	0.25	0.03	0.27
Regional Totals	1.88	2.82	4.40	2.19	2.79
Unknown counties	3.42	2.13	2.98	3.74	1.30
Mixed counties	0.54	--	0.00	--	0.00
STATE TOTALS	100	100	100	100	100

Table 13. Distribution of forest grouse hunting pressure by region and county, 1971-75.

Region and County	1971	1972	1973	1974	1975
Northern					
Box Elder	2.94	4.13	4.03	3.71	2.05
Cache	22.04	23.20	26.68	24.24	19.97
Davis	4.56	2.67	1.91	2.54	4.04
Morgan	2.57	2.97	2.93	2.89	5.36
Rich	3.75	3.02	2.80	5.12	3.34
Summit	4.48	6.10	5.73	5.12	5.07
Weber	10.36	13.14	6.66	7.77	8.12
Regional Totals	50.70	55.23	50.72	51.39	47.96
Central					
Juab	2.06	1.98	1.48	3.06	1.38
Salt Lake	3.38	2.91	2.16	3.06	2.83
Sanpete	4.41	3.20	4.88	4.81	5.23
Tooele	1.54	0.58	1.15	1.20	1.73
Utah	13.74	11.69	14.12	13.51	13.39
Wasatch	4.85	3.84	4.50	5.16	5.10
Regional Totals	29.98	24.19	28.29	30.80	29.66
Southern					
Beaver	0.73	0.52	0.59	0.96	1.09
Garfield	0.44	0.58	0.47	0.41	0.48
Iron	0.66	1.98	2.08	0.76	2.22
Kane	0.59	0.93	0.59	0.03	0.26
Millard	0.59	1.28	1.10	1.99	1.38
Piute	0.88	0.58	0.85	0.24	0.58
Sevier	4.04	3.20	3.10	2.44	5.20
Washington	0.07	--	0.04	--	0.45
Wayne	0.22	0.12	0.00	0.28	0.32
Regional Totals	8.23	9.19	8.82	7.12	11.97
Northeastern					
Daggett	0.88	0.93	0.98	0.62	1.35
Duchesne	1.62	1.74	1.99	1.86	1.48
Uintah	1.54	1.74	1.40	2.03	1.89
Regional Totals	4.04	4.42	4.37	4.50	4.72
Southeastern					
Carbon	2.50	1.98	3.22	1.93	2.54
Emery	0.81	0.58	1.19	1.03	1.22
Grand	0.07	0.17	0.34	0.07	0.19
San Juan	--	0.17	0.21	0.03	0.51
Regional Totals	3.38	2.91	4.96	3.06	4.46
Unknown counties	3.38	4.07	2.84	3.13	1.22
Mixed counties	0.29	--	0.00	--	0.00
STATE TOTALS	100	100	100	100	100

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

Table 14. State-wide summary of forest grouse harvest statistics, 1961-75.

Year	Total hunters	Total harvest			Hunter-days afield	Grouse/ hunter-day		Grouse per season				
		Ruffed (%)	Blue (%)	Unknown (%)		Ruffed	Blue	Ruffed	Blue	Total		
1961*	256	128 (36.3)	220 (62.3)	5 (1.4)	353	--	--	0.50	0.86	1.38		
1962**	2386	1885 (56.3)	1464 (43.7)	0 (0)	3349	4276	1.19	0.76	1.96	--		
1963	7425	5470 (40.2)	7372 (54.2)	766 (5.6)	13,608	12,313	0.44	0.66	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 (56.8)	520 (6.0)	8669	10,504	0.31	0.47	0.83	0.54	0.82	1.44
1966	6683	6966 (56.6)	4659 (37.8)	696 (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)	12604 (38.9)	2762 (8.5)	32,414	26,537	0.64	0.47	1.22	1.30	0.96	2.48
1969	12,523	9490 (44.1)	10419 (48.5)	1589 (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)	2793 (8.7)	31,898	26,619	0.59	0.51	1.20	1.22	1.06	2.50
1971	13,363	15,759 (49.4)	13749 (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)	19221 (45.2)	2649 (6.2)	42,518	38,940	0.53	0.49	1.09	1.24	1.16	2.56
1973	17,588	7,153 (15.8)	36846 (81.4)	1233 (2.7)	45,232	44,738	0.16	0.82	1.01	0.41	2.09	2.57
1974	21,920	24,561 (39.3)	32236 (51.6)	5642 (9.0)	62,438	55,258	0.44	0.58	1.13	1.12	1.47	2.85
1975	20,102	15,750 (37.1)	23138 (54.5)	3573 (8.4)	42,461	50,579	0.31	0.45	0.84	0.78	1.15	2.11
TOTALS 1963-75	176,515	155,490 (41.4)	192141 (51.2)	27545 (7.3)	375,176	359,886	0.43	0.53	1.04	0.88	1.09	2.12
AVERAGES 1963-74	13,034	11,645 (42.0)	14084 (50.8)	1998 (7.2)	27,726	25,776	0.46	0.52	1.06	0.94	1.07	2.17

*Estimated

**Totals and indexes based on indiscreet data.

Table 15. Forest grouse field bag check summary, 1975.

Region and County	ALL HUNTS				COMPLETE HUNTS				
	Total Parties	Total Hunters	Total Hours	Total Birds/100 Hrs.	Total Complete Hunts	Total Hunters	Total Hours	Total Birds/100 Hrs.	Birds/Hunter
Northern									
Box Elder	18	48	132	24	18	24	87	19	22
Cache	597	1,347	6,178	760	12	1,295	6,060	748	12
Davis	9	19	57	1	2	19	57	1	2
Morgan	25	65	189	12	6	38	135	12	9
Rich	180	426	2,097	89	4	407	2,052	88	4
Summit	--	--	--	--	--	--	--	--	--
Weber	76	168	915	65	7	162	899	65	7
Regional Totals	905	2,073	9,568	951	10	1,945	9,290	933	10
Central									
Juab	10	33	66	7	11	13	24	0	0
Salt Lake	--	--	--	--	--	--	--	--	--
Sanpete	16	42	73	12	16	7	7	4	57
Tooele	--	--	--	--	--	--	--	--	--
Utah	27	78	207	24	12	26	91	9	10
Wasatch	3	8	14	10	71	6	12	7	58
Regional Totals	56	161	360	53	15	52	134	20	15
Southern									
Beaver	--	--	--	--	--	--	--	--	--
Garfield	2	3	2	1	50	3	2	1	50
Iron	2	5	14	5	36	5	14	5	36
Kane	2	3	5	1	20	0	0	0	--
Millard	24	65	305	72	24	20	89	16	18
Piute	1	2	4	4	100	2	4	4	100
Sevier	6	13	58	18	31	9	38	18	47
Washington	--	--	--	--	--	--	--	--	--
Wayne	--	--	--	--	--	--	--	--	--
Regional Totals	37	91	388	101	26	39	147	44	30
Northeastern									
Daggett	2	4	10	9	90	4	10	9	90
Duchesne	5	10	11	0	0	0	0	0	--
Uintah	14	60	151	43	28	19	47	25	53
Regional Totals	21	74	172	52	30	23	57	34	60
Southeastern									
Carbon	--	--	--	--	--	--	--	--	--
Emery	16	39	90	4	4	17	34	0	0
Grand	1	1	2	3	150	1	2	3	150
San Juan	4	5	6	4	67	5	6	4	67
Regional Totals	21	45	98	11	11	23	42	7	17
STATE TOTALS	1,040	2,444	10,586	1,168	11	2,082	9,670	1,038	11

*Based on all hunts.

Table 16. Forest grouse hunter success trend determined by field bag checks, 1970-75.

Region and County	1970		1971		1972		1973		1974		1975	
	Birds/ 100 Hrs. Hunter	Birds/ Hunter	Birds/ 100 Hrs. Hunter	Birds/ Hunter	Birds/ 100 Hrs. Hunter	Birds/ Hunter	Birds/ 100 Hrs. Hunter	Birds/ Hunter	Birds/ 100 Hrs. Hunter	Birds/ Hunter	Birds/ 100 Hrs. Hunter	Birds/ Hunter
Northern												
Box Elder	--	--	--	--	25	0.78	33	1.00	24	0.96	18	0.79
Cache	18	0.86	21	0.80	20	0.97	18	0.80	12	0.62	12	0.58
Davis	--	--	--	--	--	--	--	--	--	--	2	0.05
Morgan	100	1.50	96	1.60	0	0.00	50	0.50	--	--	6	0.32
Rich	32	1.14	24	1.09	16	0.81	11	0.52	10	0.46	4	0.22
Summit	57	1.33	14	0.45	--	--	--	--	--	--	--	--
Weber	12	0.58	16	0.65	22	1.00	15	0.60	12	0.57	7	0.40
REGIONAL TOTALS	15	0.75	21	0.81	19	0.94	17	0.74	12	0.59	10	0.48
Central												
Juab	20	0.57	23	1.67	33	1.36	26	1.29	--	--	11	0.21*
Salt Lake	12	0.88	0	0.00	0	0.00	75	1.12	--	--	--	--
Sanpete	38	1.29	31	0.88	26	0.88	23	0.50	38	1.08*	16	0.28*
Tooele	17	0.67	--	--	33	1.00	9	0.40	31	1.00	--	--
Utah	16	0.33	26	0.38	27	0.69	26	1.08	27	1.80	12	0.35
Wasatch	--	--	50	1.33	--	--	89	2.67	56	1.52	71	1.17
REGIONAL TOTALS	24	1.03	28	0.61	26	0.75	27	1.11	35	1.24	15	0.38
Southern												
Beaver	--	--	4	0.33	--	--	0	0.00	--	--	--	--
Garfield	6	0.21	4	0.05	--	--	38	1.00	--	--	50	0.33
Iron	25	0.43	32	0.70	--	--	--	--	--	--	36	1.00
Kane	5	0.14	--	--	51	2.56	73	2.83	--	--	20	--
Millard	--	--	--	--	--	--	--	--	--	--	24	0.80
Piute	--	--	--	--	12	0.75	47	1.50	--	--	100	2.00
Sevier	--	--	50	1.28	44	1.36	400	3.00	--	--	31	2.00
Washington	15	0.67	--	--	--	--	--	--	--	--	--	--
Wayne	40	1.33	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	12	0.32	17	0.38	42	1.86	63	1.91	--	--	26	1.13
Northeastern												
Daggett	0	0.00	80	1.33	21	0.57	--	--	33	0.44	90	2.25
Duchesne	38	1.17	50	2.00	20	0.50	28	1.44	25	0.50	0	--
Uintah	30	2.33	44	2.36	150	1.50	--	--	15	0.54	28	1.32
REGIONAL TOTALS	28	1.87	49	2.12	39	0.85	28	1.44	16	0.53	30	1.48
Southeastern												
Carbon	--	--	35	1.75	--	--	100	--	--	--	--	--
Emery	--	--	13	0.62	--	--	33	1.00	5	0.17	4	0.10*
Grand	--	--	41	1.00	--	--	75	3.00	17	0.50*	150	3.00
San Juan	--	--	--	--	--	--	--	--	17	0.30	67	0.80
REGIONAL TOTALS	--	--	26	1.00	--	--	55	1.67	11	0.25	11	0.30
STATE TOTALS	16	0.76	22	0.80	20	0.95	19	0.80	13	0.59	11	0.50

*Forest grouse per hunter index based on all hunts.

QUAIL

SUMMARY

The 1975 breeding population of California quail was estimated to be similar to 1974 based on hunter success trends. Gambel quail call counts showed a marked increase in breeding density.

Production of California quail was generally below both 1974 and the average, except in the Northeastern Region while Gambel quail production was the highest since before 1961.

Fall populations of California quail were indicated to be below 1974 and Gambel quail much higher than 1974.

Harvest statistics reflected a substantially increased Gambel quail harvest and hunter success in Washington County. Hunter success for California quail was generally comparable to 1974 with slight increases shown in some areas and decreases in others.



Brood Counts

Results of the annual random brood survey for 1975 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 1975 compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Total quail observed	823	+55	-26
Young per 100 adults	360	+45	+57
Mean brood size	9.16	+48	+30
Quail observed per 100 hours	549	+51	-20
Total hours effort	150	+ 3	- 7

Harvest data for 1974 suggests a quail breeding population for 1975 similar to 1974. Gambel quail call counts indicated a marked increase in the breeding population of that species on the west slope of the Beaver Dam Mountains in Washington County.

Effort on quail brood counts was comparable to both 1974 and the average. Total quail counted increased in the Central and Southern regions but decreased in other areas. The same trends were evident in the density index (Quail per 100 hours).

Quail production was generally down from both 1974 and the average in all areas except the Northeastern Region and Washington County. The relatively large sample size exhibiting a marked increase in production for Washington County caused an increased production index (young per 100 adults) on a Statewide basis. California quail production in Northern areas was below both 1974 and the average.

Gambel quail populations were relatively high in Washington County while California quail were down from 1974 and the average.

Harvest

Results of the annual hunter questionnaire for 1975 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 statewide harvest statistics in Table 9.

The 1975 season compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Quail hunters	6,397	+ 5	-16
Quail harvested	16,903	+41	-23
Hunter-days afield	16,805	+14	-12
Quail per hunter	2.64	+34	- 8
Quail per hunter-day	1.01	+23	-14

Total hunters, hunter-days, harvest and hunter success all increased on a State-wide basis in comparison to 1974 but all remained below average. Increased hunter success was indicated for the Northern, Southern and Southeastern regions. Other areas were similar to or only slightly lower than 1974.

Almost 50 percent of the total quail harvest occurred in Washington County but only 23 percent of the total hunter-days.

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 slopes of the Beaver Dam Mountains since 1962.

Call counts showed 6.0 quail calling for the route in 1975 compared to none in 1974.

Waterhole counts yielded 165 quail compared to 30 during 1974 and none in 1973.

Vegetative surveys designed to measure the relative abundance of annual forbs using filaree (Erodium cicutarium) as the indicator species showed the highest plant density since initiation of the survey in 1962.

Quail bagged per hunter and per hunter-day.

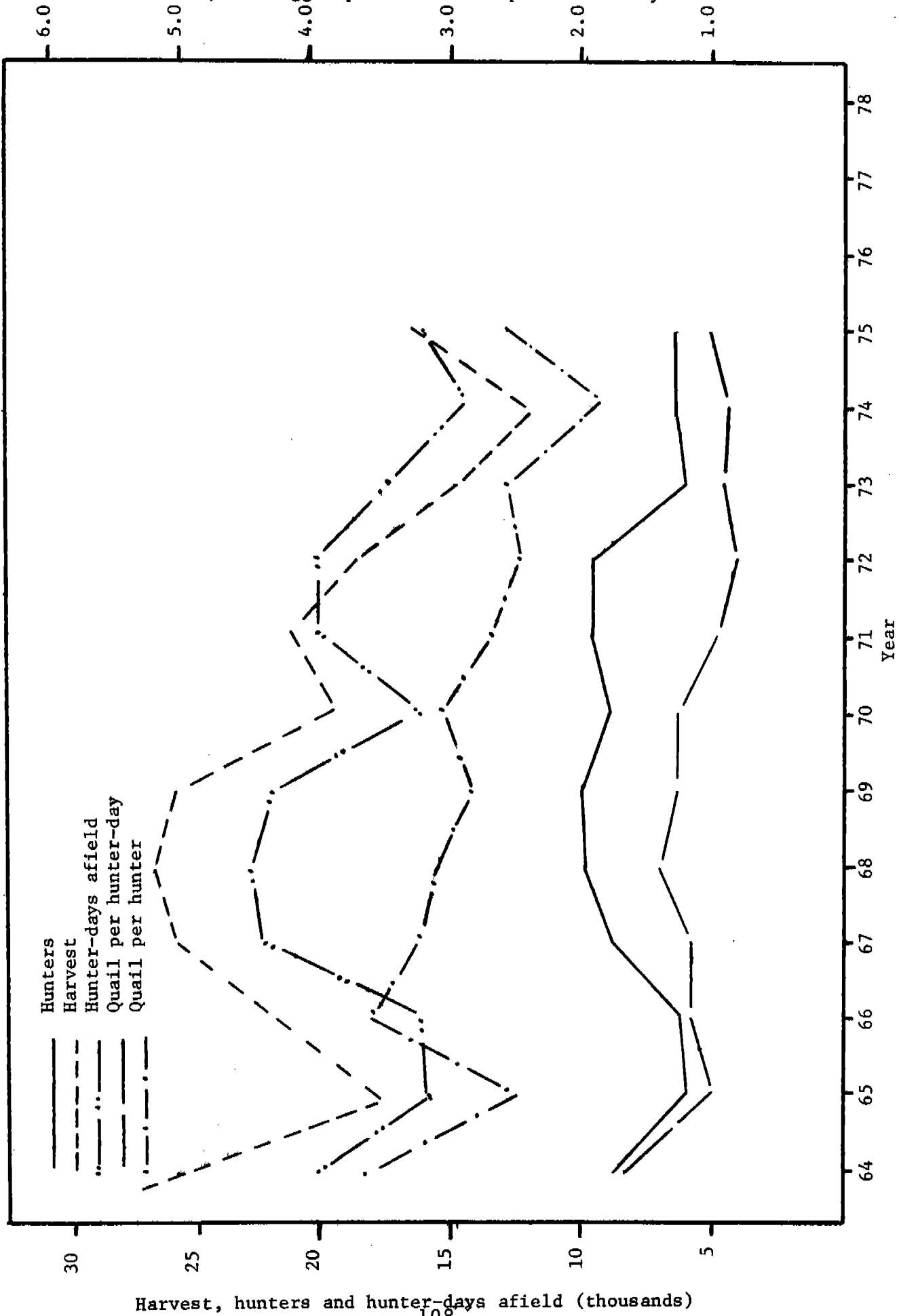


Figure 1. Statewide trend of quail harvest statistics.

Table 1. Quail summer inventory summary, 1975

Region and County	Distinct Broods		Mixed Yng. & Adults		Total Yng. w/o Adults	Total Yng. Adults	Total Yng. 100 Ad. Miles	Vehicle		Hours Effort		Birds/ 100 hrs.			
	No. Ad.	Yng.	Mean Brood	Ad. Yng.				Ad. Miles	Veh.	Horse Walk	Total		Total		
Northern															
Box Elder	--	--	--	--	--	--	--	--	--	--	--	--			
Cache	--	--	--	--	--	--	--	--	--	--	--	--			
Davis	--	--	--	--	--	--	--	--	--	--	--	--			
Morgan	--	--	--	--	--	--	--	--	--	--	--	--			
Rich	--	--	--	--	--	--	--	--	--	--	--	--			
Summit	--	--	--	--	--	--	--	--	--	--	--	--			
Weber	0	0	0	2	13	4	6	13	217	27	5	0	3	8	238
REGIONAL TOTALS	0	0	0	2	13	4	6	13	217	27	5	0	3	8	238
Central															
Juab	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Salt Lake	5	9	34	6.80	7	9	12	43	154	40	8	0	4	12	592
Sanpete	3	6	18	6.00	0	0	6	18	300	30	3	0	2	5	480
Tooele	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Utah	1	2	7	7.00	3	9	2	7	229	37	6	0	0	6	383
Wasatch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	9	17	59	6.56	10	18	14	77	188	107	17	0	6	23	513
Southern															
Beaver	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Garfield	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Kane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Millard	2	2	16	8.00	0	0	30	16	50	60	3	0	0	3	1,600
Piute	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sevier	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Washington	25	40	271	10.84	27	187	12	79	458	561	30	0	17	47	1,143
Wayne	0	0	0	--	0	2	0	2	--	220	5	0	9	14	14
REGIONAL TOTALS	27	42	287	10.63	27	189	42	111	476	429	38	0	26	64	917
Northeastern															
Daggett	4	4	18	4.50	0	0	0	18	450	220	7	0	7	14	157
Duchesne	0	0	0	--	3	22	4	7	314	293	17	0	2	19	153
Uintah	3	3	30	10.00	1	8	4	8	475	81	8	0	2	10	460
REGIONAL TOTALS	7	7	48	6.86	4	30	8	19	411	594	32	0	11	43	226
Southeastern															
Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Emery	0	0	0	--	0	0	2	2	0	230	12	0	0	12	17
Grand	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
San Juan	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	0	0	0	--	0	0	2	2	0	230	12	0	0	12	17
STATE TOTALS	43	66	394	9.16	43	250	70	179	644	1,799	104	0	46	150	549

Table 2. Trend of quail young per 100 adults ratios 1971-75*.

Region and County	1971	1972	1973	1974	1975	Averages 1964-74
Northern						
Box Elder	--	--	250	--	--	
Cache	--	--	--	--	--	
Davis	314	--	--	--	--	
Morgan	300	575	400	640	--	
Rich	--	--	--	--	--	
Summit	--	--	--	--	--	
Weber	255	111	50	--	217	
Regional Totals	290	254	230	640	217	254
Central						
Juab	--	--	--	--	--	
Salt Lake	240	114	222	175	154	
Sanpete	440	500	174	175	300	
Tooele	--	--	--	--	--	
Utah	220	275	241	250	229	
Wasatch	--	--	--	--	--	
Regional Totals	267	143	222	200	188	264
Southern						
Beaver	--	--	--	--	--	
Garfield	--	--	--	--	--	
Iron	--	--	--	--	--	
*Kane	160	--	--	--	--	
Millard	233	117	0	113	50	
Piute	--	--	--	--	--	
Sevier	--	--	--	--	--	
*Washington	320	57	--	273	580	
*Wayne	0	--	--	86	--	
Regional Totals	270	75	0	171	429	177
Northeastern						
Daggett	267	--	0	525	450	
Duchesne	--	--	--	333	314	
Uintah	217	165	700	438	475	
Regional Totals	243	165	350	431	411	230
Southeastern						
Carbon	125	--	533	--	--	
Emery	50	438	--	109	0	
Grand	--	--	--	--	--	
San Juan	--	--	--	--	--	
Regional Totals	100	438	533	109	0	251
STATE TOTALS	255	171	216	248	360	230

*Washington, Kane and Wayne counties, Gambel's quail. All others California.

Table 3. Trend of quail mean brood size from 1964-75*

Region and County	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	Averages 1959-74
Northern													
Box Elder	5.00	--	10.00	8.00	--	--	--	--	--	5.00	--	--	--
Cache	--	--	--	--	--	--	--	--	--	--	--	--	--
Davis	--	--	--	15.00	8.20	--	11.00	--	--	--	--	--	--
Morgan	5.00	3.50	9.00	6.00	--	4.80	7.67	12.00	11.50	8.00	9.00	--	--
Rich	--	--	--	--	--	--	--	--	--	--	--	--	--
Summit	--	6.67	--	8.00	--	7.00	--	--	--	--	--	--	--
Weber	--	--	13.00	--	12.00	4.00	--	9.33	10.00	--	--	--	--
REGIONAL TOTALS	5.00	5.40	10.25	6.57	14.25	5.94	7.67	10.50	11.00	7.00	9.00	--	7.87
Central													
Juab	--	--	--	--	--	--	--	--	--	--	--	--	--
Salt Lake	8.80	--	--	9.00	6.67	11.42	8.61	7.00	8.00	7.50	5.00	6.80	--
Sanpete	7.00	7.00	9.29	6.30	7.50	6.00	5.67	5.70	5.40	5.60	4.00	6.00	--
Tooele	--	--	--	--	--	--	--	--	--	--	--	--	--
Utah	8.09	8.24	8.38	6.80	8.24	8.75	7.85	7.43	7.17	7.36	6.67	7.00	--
Wasatch	--	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	8.14	8.00	8.65	6.86	7.91	9.67	7.98	6.50	7.18	6.95	5.29	6.56	7.37
Southern													
Beaver	--	--	--	--	--	--	--	--	--	--	--	--	--
Garfield	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	--	--	--	--	--	--	--	--	--	--	--	--	--
*Kane	--	--	--	--	--	--	--	8.00	--	--	--	--	--
Millard	--	--	12.00	--	--	4.00	--	8.00	7.00	--	7.00	8.00	--
Piute	--	--	--	4.00	--	--	--	--	--	--	--	--	--
Sevier	--	--	--	--	--	--	--	--	--	--	--	--	--
*Washington	--	8.30	6.92	5.30	7.92	2.90	4.00	6.62	2.67	--	5.17	10.84	--
*Wayne	--	--	--	--	--	--	--	--	--	--	9.00	--	--
REGIONAL TOTALS	--	8.30	7.11	5.34	7.92	3.50	4.00	7.21	3.75	--	6.30	10.63	6.46
Northeastern													
Daggett	--	--	--	--	--	--	5.29	5.45	--	--	5.25	4.50	--
Duchesne	7.00	6.25	2.00	--	3.67	3.00	--	--	--	--	5.00	--	--
Uintah	7.09	9.67	9.80	6.25	4.80	6.00	5.43	5.33	5.92	7.00	11.00	10.00	--
REGIONAL TOTALS	7.08	7.71	8.50	6.25	4.38	5.50	5.32	5.41	5.92	7.00	6.73	6.86	6.40
Southeastern													
Carbon	7.50	--	7.00	3.67	3.00	4.67	--	--	--	8.00	--	--	--
Emery	--	--	--	--	--	--	--	2.00	9.86	--	5.00	--	--
Grand	--	--	--	--	--	--	--	--	--	--	--	--	--
San Juan	--	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	7.50	--	--	--	--	--	--	2.00	9.86	8.00	5.00	--	6.47
STATE TOTALS	7.56	7.61	8.10	5.80	7.76	6.95	6.97	6.58	7.21	7.04	6.20	9.16	7.07

*Washington, Kane and Wayne counties Gambel's quail. All others California

Table 4. Trend of quail observed per 100 hours ratios, 1971-75*, 1967-74

Region and County	1971	1972	1973	1974	1975	Averages 1967-74
Northern						
Box Elder	--	--	175	--	--	
Cache	--	--	--	--	--	
Davis	829	--	--	--	--	
Morgan	400	1350	--	925	--	
Rich	--	--	--	--	--	
Summit	--	--	--	--	--	
Weber	300	271	100	--	238	
Regional Totals	471	511	330	925	238	521
Central						
Juab	--	--	--	--	--	
Salt Lake	1133	2706	414	550	592	
Sanpete	982	771	525	138	480	
Tooele	--	--	--	--	--	
Utah	988	1071	1194	400	383	
Wasatch	--	--	--	--	--	
Regional Totals	1030	1873	808	267	513	1314
Southern						
Beaver	--	--	--	--	--	
Garfield	--	--	--	--	--	
Iron	--	--	--	--	--	
*Kane	578	--	--	--	--	
Millard	3000	118	125	1067	1600	
Piute	--	--	--	--	--	
Sevier	--	--	--	--	--	
*Washington	600	122	--	194	1143	
*Wayne	33	--	--	300	14	
Regional Totals	708	90	125	254	917	774
Northeastern						
Daggett	1900	--	18	208	157	
Duchesne	0	--	0	325	153	
Uintah	1120	1005	533	1950	460	
Regional Totals	769	303	47	739	226	443
Southeastern						
Carbon	300	--	--	0	--	
Emery	83	1950	0	343	17	
Grand	--	--	--	0	--	
San Juan	--	--	--	--	--	
Regional Totals	181	1950	112	343	17	536
STATE TOTALS	728	664	336	364	549	687

*Washington, Kane and Wayne counties Gambel's quail. All others California.

Table 5. Summary of quail hunter success and distribution of harvest and hunting pressure by region and county, 1975.

Region and County	Hunters Reporting	Days Hunted	Birds Bagged	Birds per Hunter-day	Birds per Hunter*	% of Pressure	% of Harvest
Northern							
Box Elder	5	7	3	0.43	1.50	0.68	0.29
Cache	4	6	2	0.33	1.00	0.58	0.19
Davis	38	104	76	0.73	1.73	10.05	7.30
Morgan	8	30	21	0.70	4.25	2.90	2.02
Rich	1	5	0	0.00	0.00	0.48	0.00
Summit	3	4	7	1.75	3.00	0.39	0.67
Weber	29	72	46	0.64	1.23	6.96	4.42
REGIONAL TOTALS	88	228	155	0.68	1.69	22.03	14.89
Central							
Juab	1	2	0	0.00	0.00	0.19	0.00
Salt Lake	31	60	78	1.30	2.37	5.80	7.49
Sanpete	2	2	1	0.50	0.00	0.19	0.10
Tooele	1	4	5	1.25	0.00	0.39	0.48
Utah	117	260	171	0.66	1.66	25.12	16.43
Wasatch	1	4	5	1.25	0.00	0.39	0.48
REGIONAL TOTALS	153	332	260	0.78	1.89	32.08	24.98
Southern							
Beaver	0	0	0	0.00	2.00	0.00	0.00
Garfield	0	0	0	0.00	0.00	0.00	0.00
Iron	5	26	6	0.23	4.74	2.51	0.58
Kane	0	0	0	0.00	0.00	0.00	0.00
Millard	5	14	5	0.36	0.75	1.35	0.48
Piute	0	0	0	0.00	0.00	0.00	0.00
Sevier	6	18	2	0.11	0.33	1.74	0.19
Washington	80	241	504	2.09	6.96	23.29	48.41
Wayne	1	1	3	3.00	3.00	0.10	0.29
REGIONAL TOTALS	97	300	520	1.73	5.49	28.99	49.95
Northeastern							
Daggett	0	0	0	0.00	0.00	0.00	0.00
Duchesne	7	11	6	0.55	2.00	1.06	0.58
Uintah	18	38	30	0.79	1.57	3.67	2.88
REGIONAL TOTALS	25	49	36	0.73	1.60	4.73	3.46
Southeastern							
Carbon	21	79	38	0.48	2.19	7.63	3.65
Emery	14	28	27	0.96	2.00	2.71	2.59
Grand	3	12	3	0.25	1.00	1.16	0.29
San Juan	0	0	0	0.00	0.00	0.00	0.00
REGIONAL TOTALS	38	119	68	0.57	2.07	11.50	6.53
Unknown counties	5	7	2	0.29	0.00	0.68	0.19
Mixed counties	0	0	0	0.00	0.00	0.00	0.00
STATE TOTALS	406	1,035	1,041	1.01	2.64	100	100

*Based on county of residence.

Table 6. Summary of quail bagged per hunter-day by region and county, 1971-75.

Region and County	1971	1972	1973	1974	1975
<u>Northern</u>					
Box Elder	0.45	1.12	0.65	0.83	0.43
Cache	0.40	0.05	1.00	0.60	0.33
Davis	0.53	0.98	0.62	0.70	0.73
Morgan	0.83	0.50	0.67	0.31	0.70
Rich	--	1.00	--	0.00	0.00
Summit	0.58	0.67	0.80	0.79	1.75
Weber	0.91	0.74	0.32	0.62	0.64
REGIONAL TOTALS	0.67	0.79	0.57	0.62	0.68
<u>Central</u>					
Juab	0.00	--	0.00	--	0.00
Salt Lake	0.88	1.14	0.71	0.94	1.30
Sanpete	0.38	0.17	0.50	0.89	0.50
Tooele	0.00	0.00	0.33	0.75	1.25
Utah	0.83	0.80	0.77	0.75	0.66
Wasatch	0.00	0.00	2.50	--	1.25
REGIONAL TOTALS	0.80	0.82	0.76	0.79	0.78
<u>Southern</u>					
Beaver	3.00	1.50	--	--	0.00
Garfield	--	--	--	--	0.00
Iron	1.20	1.00	2.00	1.00	0.23
Kane	2.86	--	2.69	--	0.00
Millard	0.14	0.30	0.50	0.50	0.36
Piute	--	--	2.00	0.00	0.00
Sevier	0.60	0.00	0.50	0.00	0.11
Washington	1.81	1.07	0.47	1.39	2.09
Wayne	8.00	2.00	0.00	2.50	3.00
REGIONAL TOTALS	1.82	1.01	1.55	1.22	1.73
<u>Northeastern</u>					
Daggett	--	0.00	0.00	1.00	0.00
Duchesne	1.38	2.25	0.39	0.20	0.55
Uintah	0.53	0.38	0.78	0.88	0.79
REGIONAL TOTALS	0.83	0.44	0.93	0.79	0.73
<u>Southeastern</u>					
Carbon	0.95	0.31	0.81	0.43	0.48
Emery	1.50	0.00	0.58	0.33	0.96
Grand	--	--	0.00	--	0.25
San Juan	--	--	--	--	0.00
REGIONAL TOTALS	1.00	0.25	0.76	0.42	0.57
Unknown counties	1.12	0.80	0.27	0.67	0.29
Mixed counties	--	--	--	2.37	0.00
STATE TOTALS	0.98	0.76	0.81	0.82	1.01

Table 7. Distribution of quail harvest by region and county, 1971-75.

Region and County	1971	1972	1973	1974	1975
Northern					
Box Elder	0.51	3.70	1.46	2.37	0.29
Cache	0.61	0.14	0.79	0.95	0.19
Davis	6.09	10.84	7.55	6.65	7.30
Morgan	2.43	1.10	3.84	1.42	2.02
Rich	--	0.14	--	0.00	0.00
Summit	0.71	0.27	2.12	1.74	0.67
Weber	7.20	7.00	3.05	4.59	4.42
REGIONAL TOTALS	17.55	23.18	18.81	17.72	14.89
Central					
Juab	0.00	--	0.00	--	0.00
Salt Lake	6.49	13.58	6.36	9.81	7.49
Sanpete	0.51	0.55	0.40	1.27	0.10
Tooele	0.00	0.00	0.40	0.47	0.48
Utah	25.46	31.82	29.01	28.96	16.43
Wasatch	0.00	0.00	1.32	--	0.48
REGIONAL TOTALS	32.45	45.95	37.48	40.51	24.98
Southern					
Beaver	0.61	0.41	--	--	0.00
Garfield	--	--	--	--	0.00
Iron	0.61	0.27	1.59	0.16	0.58
Kane	2.03	--	4.64	--	0.00
Millard	0.10	0.41	0.13	1.42	0.48
Piute	--	--	0.26	0.00	0.00
Sevier	0.61	0.00	0.40	0.00	0.19
Washington	26.06	18.24	19.34	23.58	48.41
Wayne	2.43	0.55	0.06	0.79	0.29
REGIONAL TOTALS	32.45	19.89	26.36	25.95	49.95
Northeastern					
Daggett	--	0.00	0.00	0.32	0.00
Duchesne	2.94	1.23	3.31	0.32	0.58
Uintah	2.03	6.17	5.30	8.39	2.88
REGIONAL TOTALS	4.97	7.41	8.61	9.02	3.46
Southeastern					
Carbon	6.09	1.92	6.23	3.01	3.65
Emery	0.91	0.00	0.93	0.47	2.59
Grand	--	0.00	0.00	--	0.29
San Juan	--	0.00	--	--	0.00
REGIONAL TOTALS	7.00	1.92	7.15	3.48	6.53'
Unknown counties	5.58	1.65	1.59	0.32	0.19
Mixed counties	--	--	--	3.01	0.00
STATE TOTALS	100	100	100	100	100

Table 8. Distribution of quail hunting pressure by region and county, 1971-75.

Region and County	1971	1972	1973	1974	1975
<u>Northern</u>					
Box Elder	1.09	2.49	1.81	2.33	0.68
Cache	1.49	1.98	0.64	1.29	0.58
Davis	11.19	8.42	9.82	7.75	10.05
Morgan	2.87	1.66	4.59	3.75	2.90
Rich	--	0.10	--	0.26	0.48
Summit	1.19	0.31	2.13	1.81	0.39
Weber	7.72	7.17	7.68	6.07	6.96
REGIONAL TOTALS	25.54	22.14	26.68	23.26	22.03
<u>Central</u>					
Juab	0.10	--	0.32	--	0.19
Salt Lake	7.23	9.04	7.26	8.53	5.80
Sanpete	1.29	2.49	0.64	1.16	0.19
Tooele	0.40	0.52	0.96	0.52	0.39
Utah	30.00	30.15	30.20	31.65	25.12
Wasatch	0.50	0.52	0.43	--	0.39
REGIONAL TOTALS	39.50	42.72	39.81	41.86	32.08
<u>Southern</u>					
Beaver	0.20	0.21	--	--	0.00
Garfield	--	--	--	--	0.00
Iron	0.50	0.21	0.64	0.13	2.51
Kane	0.69	--	1.39	--	0.00
Millard	0.69	1.04	0.21	2.33	1.35
Piute	--	--	0.11	0.26	0.00
Sevier	0.99	0.42	0.64	0.52	1.74
Washington	14.06	12.89	10.57	13.82	23.29
Wayne	0.30	0.21	0.11	0.26	0.10
REGIONAL TOTALS	17.43	14.97	13.66	17.31	28.99
<u>Northeastern</u>					
Daggett	--	0.10	0.11	0.26	0.00
Duchesne	2.08	0.42	1.92	1.29	1.06
Uintah	3.76	12.27	5.44	7.75	3.67
REGIONAL TOTALS	5.84	12.79	7.47	9.30	4.73
<u>Southeastern</u>					
Carbon	6.24	4.68	6.19	5.68	7.63
Emery	0.59	1.14	1.28	1.16	2.71
Grand	--	--	0.11	--	1.16
San Juan	--	--	--	--	0.00
REGIONAL TOTALS	6.83	5.82	7.58	6.85	11.50
Unknown counties	4.85	1.56	4.80	0.39	0.68
Mixed counties	--	--	--	1.03	0.00
STATE TOTALS	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, 1951-75.

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
1973	5,654	14,324	17,777	0.81	2.53
1974	6,097	12,005	14,702	0.82	1.97
1975	6,397	16,903	16,805	1.01	2.64
<hr/>					
TOTALS (1959-75)	128,376	370,267	321,269	1.15	2.88
<hr/>					
AVERAGES (1959-74)	7,624	22,085	19,029	1.17	2.86

Table 10. Gambel's quail call-count trends on the west slope of the Beaver Dam Mountains, Washington County, 1971-75.

Index	1971	1972	1973	1974	1975
Mean calls per station	1.57	0.36	0.06	0.00	2.55
Mean quail calling per station	0.37	0.11	0.03	0.00	0.40
Mean total calls-route	23.5	5.30	1.00	0.00	38.20
Mean total quail calling-route	5.5	1.7	0.40	0.00	6.00

Table 11. Gambel's quail long-period waterhole count trend on the west slope of the Beaver Dam Mountains, Washington County, 1971-75.

Index	1971	1972	1973	1974	1975
Total young	33	0	0	24	145
Total adults	8	0	0	6	20
Total quail	41	0	0	30	165
Young per 100 adults	412	--	--	400	725

Table 12. Trend of filaree plants per square foot on the west slope of the Beaver Dam Mountains, 1971-75.

Area	1971	1972	1973	1974	1975
Vern's Wash (B-1)	0.07	--	0.37	2.40	4.46
Reber Wash (B-2)	0.00	0.00	0.43	1.10	3.21
Brick Wash (A-1)	0.13	0.04	0.41	2.40	2.90
Gravel Canyon (A-2)	0.28	0.04	0.40	1.30	0.94
AVERAGE	0.14	0.03	0.40	1.80	2.88

HUNGARIAN PARTRIDGE

SUMMARY

A breeding population level slightly higher than 1974 was indicated by 1974 harvest statistics.

Brood data samples were small but it seemed apparent that production, at least in Box Elder County, was lower than 1974 but above average.

Hunting pressure, harvest and hunter success all decreased from 1974 and were below average. Decreased daily bag and possession limits in 1975 were probably at least partially responsible for these reductions.



Brood Counts

Results of the annual random brood counts for 1975 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 1975 compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Total Huns observed	168	- 7	-50
Young per 100 adults	600	-21	+23
Mean brood size	13.44	+19	+43
Huns observed per 100 hours	262	+159	+159
Total hours effort	64	-64	-54

Harvest statistics for 1974 indicated an increased breeding population for 1975 in the Northern Region, especially in Box Elder County but a decrease in the Central Region.

Brood data were compiled only in Box Elder County. No effort was exerted in other areas. The limited data obtained suggested increased abundance as both density and production indexes were above average.

A continued increase in the Northern Region Hun population was indicated. The trend of the Central Region population was uncertain but it was probably at a relatively low level.

Harvest

Hunter Questionnaire

Results of the annual hunter questionnaire for 1975 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 Statewide harvest statistics in Table 9. The 1975 season compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Hungarian partridge hunters	3,409	-17	-21
Hungarian partridge harvest	5,358	-27	-45
Hunter-days afield	8,216	-24	-24
Huns per hunter-day	0.65	- 5	-25
Huns per hunter	1.57	-13	-27

Total hunters, hunter-days afield and harvest were all below both 1974 and the average. Hunter success was slightly below 1974 but well below average. The Northern Region provided the bulk of the harvest (79.39 percent); however, it was significant that Utah County yielded 9 percent of the reported harvest compared to a previous high of 2.74 percent in 1970.

Field Bag Checks

Results of this survey for 1975 are shown in Table 10. Hunter success trends determined via this method are shown in Table 11. Indexes obtained for 1975 compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Total hunters checked	88	+91	-56
Total hours hunted	271	- 3	-72
Huns per hunter (complete hunts)	0.57	-55	-27
Huns bagged per 100 hours	13	-38	-19
Average hours per hunter-day (complete hunts)	3.4	-42	-32
Hours hunted per Hun bagged	6.1	+33	- 8

Field bag check data were compiled primarily in Box Elder County and is indicative of hunter success only in that area. A very small sample of hunters was checked Hunter success was much lower than both 1974 and the average. The average hunter spent less hours per day with more hours required to bag one Hun.

Hungarian partridge bagged per hunter and per hunter-day.

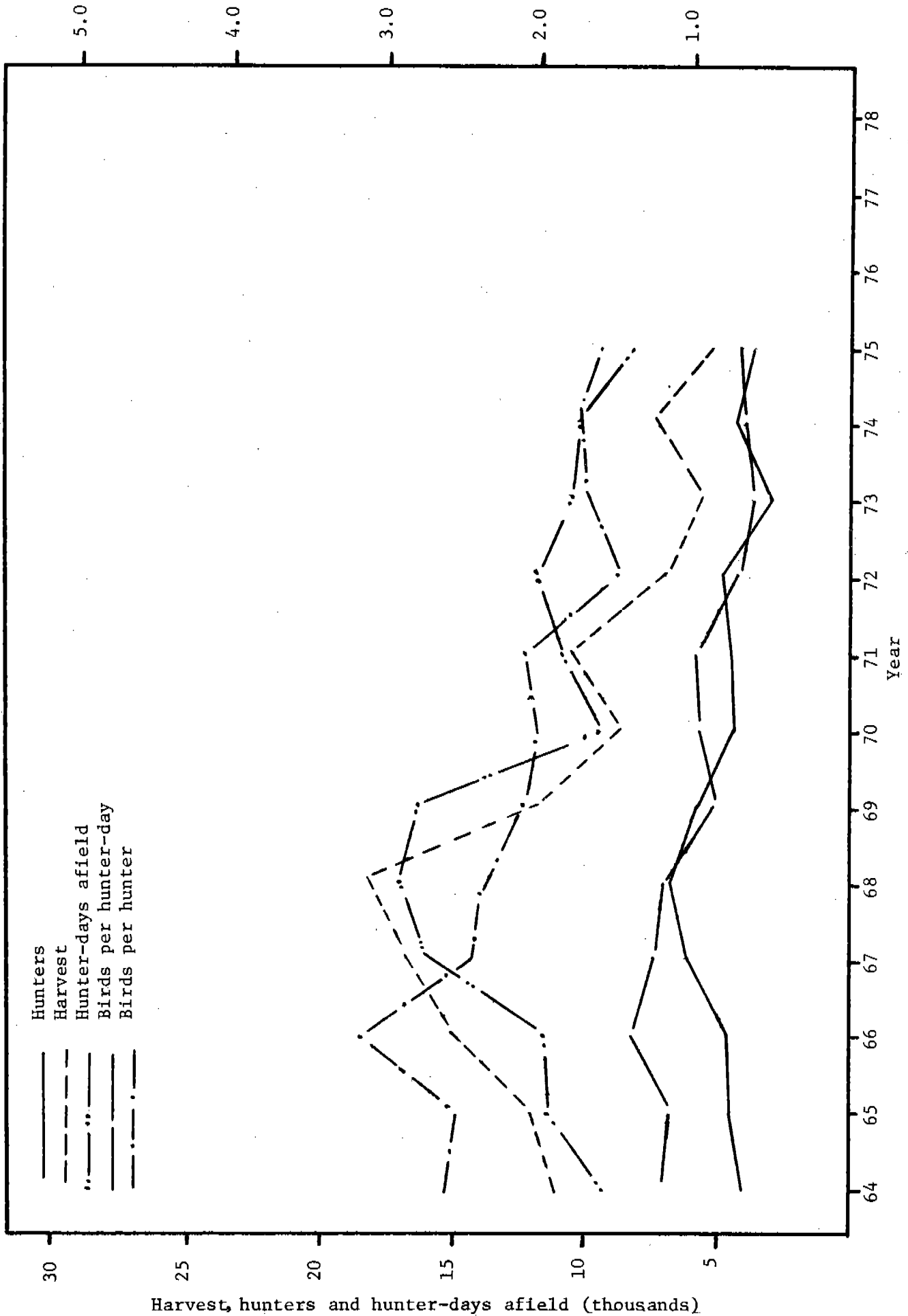


Figure 1. Statewide trend of Hungarian partridge harvest statistics.

Table 1. Hungarian partridge summer inventory summary, 1975.

Region and County	Distinct Broods		Mixed Yng. & Adults		Total Yng. 100 Ad.	Total Adults w/o Yng.	Total Young	Vehicle Miles	Hours Effort	Birds/100 Hr.					
	No. Ad.	Yng.	Mean Brood	Ad.							Yng.	Veh. Horse Walk	Total		
Northern															
Box Elder	9	15	121	13.44	3	23	6	24	144	600	21	43	0	64	262
Cache	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Davis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Morgan	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rich	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Summit	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Weber	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	9	15	121	13.44	3	23	6	24	144	600	21	43	0	64	262
Central															
Juab															
Salt Lake															
Sanpete															
Tooele															
Utah															
Wasatch															
REGIONAL TOTALS															
Southern															
Beaver															
Garfield															
Iron															
Kane															
Millard															
Piute															
Sevier															
Washington															
Wayne															
REGIONAL TOTALS															
Northeastern															
Daggett															
Duchesne															
Uintah															
REGIONAL TOTALS															
Southeastern															
Carbon															
Emery															
Grand															
San Juan															
REGIONAL TOTALS															
STATE TOTALS	9	15	121	13.44	3	23	6	24	144	600	21	43	0	64	262

NO DATA REPORTED

NOT APPLICABLE

NOT APPLICABLE

NOT APPLICABLE

Table 2. Trend of Hungarian partridge young per 100 adults ratios, 1963 - 75.

Region and County	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	Averages 1963-74
Northern Region														
Box Elder	1000	828	326	510	447	400	325	306	524	379	575	775	600	
Cache	--	--	--	152	875	450	--	--	--	--	--	--	--	
Davis	--	--	--	--	--	--	--	--	--	--	--	--	--	
Morgan	--	--	--	--	300	--	--	--	1400	--	500	675	--	
Rich	690	400	683	675	288	900	0	--	--	--	--	--	--	
Summit	--	--	--	--	--	--	--	--	--	--	--	--	--	
Weber	260	--	--	--	--	--	--	--	--	--	--	--	--	
Regional Totals	653	776	380	395	449	421	319	306	553	379	560	755	600	496
Central Region														
Juab	--	--	--	--	--	--	--	--	--	--	--	--	--	
Salt Lake	--	--	--	--	--	--	--	--	--	--	--	--	--	
Sanpete	--	--	--	--	--	--	--	--	--	--	--	--	--	
Tooele	--	--	--	--	--	--	--	--	--	--	--	--	--	
Utah	--	--	--	--	--	--	--	--	--	--	--	--	--	
Wasatch	550	390	385	270	403	442	497	414	350	800	450	800	--	
Regional Totals	550	390	385	270	403	442	497	414	350	800	450	800	--	479
Southern Region														
Beaver														
Garfield														
Iron														
Kane														
Millard														
Piute														
Sevier														
Washington														
Wayne														
Regional Totals														
Northeastern Region														
Daggett														
Duchesne														
Uintah														
Regional Totals														
Southeastern Region														
Carbon														
Emery														
Grand														
San Juan														
Regional Totals														
STATE TOTALS	642	710	382	370	435	430	325	319	495	424	552	757	600	487

Table 3. Trend of Hungarian partridge mean brood size from 1963 - 75.

Region and County	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	Averages 1963-74
Northern Region														
Box Elder	10.00	13.69	6.53	11.06	8.60	7.00	5.75	11.82	7.82	11.50	11.86	11.22	13.44	
Cache	--	--	--	7.00	11.67	9.00	--	--	--	--	--	--	--	
Davis	--	--	--	--	--	--	--	--	--	--	--	--	--	
Morgan	--	--	--	--	--	--	--	14.00	--	--	8.33	13.50	--	
Rich	9.60	8.00	13.66	13.50	7.67	9.00	--	--	--	--	--	--	--	
Summit	--	--	--	--	--	--	--	--	--	--	--	--	--	
Weber	--	--	--	--	--	--	--	--	--	--	--	--	--	
Regional Totals	9.25	13.10	7.60	10.44	8.77	7.24	5.75	11.58	8.16	11.50	10.80	11.64	13.44	9.65
Central Region														
Juab	--	--	--	--	--	--	--	--	--	--	--	--	--	
Salt Lake	--	--	--	--	--	--	--	--	--	--	--	--	--	
Sanpete	--	--	--	--	--	--	--	--	--	--	--	--	--	
Tooele	--	--	--	--	--	--	--	--	--	--	--	--	--	
Utah	--	--	--	--	--	--	--	--	--	--	--	--	--	
Wasatch	--	7.80	7.70	6.57	10.00	9.00	9.94	7.25	--	8.00	4.50	8.00	--	7.88
Regional Totals	--	7.80	7.70	6.57	10.00	9.00	9.94	7.25	--	8.00	4.50	8.00	--	7.88
Southern Region														
Beaver														
Garfield														
Iron														
Kane														
Millard														
Piute														
Sevier														
Washington														
Wayne														
Regional Totals														
Northeastern Region														
Daggett														
Duchesne														
Uintah														
Regional Totals														
Southeastern Region														
Carbon														
Emery														
Grand														
San Juan														
Regional Totals														
STATE TOTALS	9.25	12.32	7.63	9.59	9.07	7.93	6.87	10.50	8.16	10.33	9.75	11.33	13.44	9.39

NOT APPLICABLE

NOT APPLICABLE

NOT APPLICABLE

Table 4. Trend of Hungarian partridge observed per 100 hours, 1967-75.

Region and County	1967	1968	1969	1970	1971	1972	1973	1974	1975	Average 1967-74
Northern Region										
Box Elder	256	261	416	210	213	133	91	80	262	
Cache	175	209	0	--	--	--	--	--	--	
Davis	--	--	--	--	--	--	--	--	--	
Morgan	73	--	--	--	--	--	428	--	--	
Rich	238	333	--	--	--	--	--	--	--	
Summit	--	--	--	--	--	--	--	--	--	
Weber	--	--	--	--	--	--	--	--	--	
Regional Totals	235	261	385	210	213	133	106	97	262	206
Central Region										
Juab	--	--	--	--	--	--	--	--	--	
Salt Lake	--	--	--	--	--	--	--	--	--	
Sanpete	--	--	--	--	--	--	--	--	--	
Tooele	--	--	--	--	--	--	--	--	--	
Utah	--	--	--	--	--	--	--	--	--	
Wasatch	777	1193	1415	720	300	450	275	450	--	
Regional Totals	777	1193	1415	720	300	171	275	450	--	663
Southern Region										
Beaver										
Garfield										
Iron										
Kane										
Millard										
Plute										
Sevier										
Washington										
Wayne										
Regional Totals										
Northeastern Region										
Daggett										
Duchesne										
Uintah										
Regional Totals										
Southeastern Region										
Carbon										
Emery										
Grand										
San Juan										
Regional Totals										
STATE TOTALS	292	383	508	249	243	139	110	101	262	253

Table 5. Summary of Hungarian partridge hunter success and distribution of harvest and hunting pressure by region and county, 1975.

Region and County	Hunters Reporting	Days Hunted	Birds Bagged	Birds per Hunter-day	Birds per Hunter*	% of Pressure	% of Harvest
<u>Northern</u>							
Box Elder	95	226	155	0.69	2.26	44.66	46.97
Cache	35	77	51	0.66	1.43	15.22	15.45
Davis	3	5	2	0.40	1.50	0.99	0.61
Morgan	11	43	38	0.88	8.50	8.50	11.52
Rich	5	7	10	0.43	0.00	1.38	3.03
Summit	3	5	1	0.20	1.00	0.99	0.30
Weber	9	23	5	0.22	1.37	4.55	1.52
REGIONAL TOTALS	161	386	262	0.68	1.72	76.28	79.39
<u>Central</u>							
Juab	5	15	5	0.33	2.00	2.96	1.52
Salt Lake	4	6	10	1.67	0.83	1.19	3.03
Sanpete	0	0	0	0.00	0.00	0.00	0.00
Tooele	4	6	3	0.50	0.00	1.19	0.91
Utah	13	34	30	0.88	2.00	6.72	9.09
Wasatch	19	18	8	0.44	0.20	3.56	2.42
REGIONAL TOTALS	35	79	56	0.71	1.24	15.61	16.97
<u>Southern</u>							
Beaver	0	0	0	0.00	0.00	0.00	0.00
Garfield	0	0	0	0.00	0.00	0.00	0.00
Iron	3	5	3	0.60	1.00	0.99	0.91
Kane	0	0	0	0.00	0.00	0.00	0.00
Millard	0	0	0	0.00	0.00	0.00	0.00
Piute	0	0	0	0.00	0.00	0.00	0.00
Sevier	4	9	0	0.00	0.00	1.78	0.00
Washington	0	0	0	0.00	0.00	0.00	0.00
Wayne	0	0	0	0.00	9.00	0.00	0.00
REGIONAL TOTALS	7	14	3	0.21	1.71	2.77	0.91
<u>Northeastern</u>							
Daggett	1	2	0	0.00	0.00	0.40	0.00
Duchesne	4	5	5	1.00	0.00	0.99	1.52
Uintah	1	2	0	0.00	0.00	0.40	0.00
REGIONAL TOTALS	6	9	5	0.56	0.00	1.78	1.52
<u>Southeastern</u>							
Carbon	2	5	0	0.00	0.00	0.99	0.00
Emery	2	3	0	0.00	0.00	0.59	0.00
Grand	0	0	0	0.00	0.00	0.00	0.00
San Juan	0	0	0	0.00	0.00	0.00	0.00
REGIONAL TOTALS	4	8	0	0.00	0.00	1.58	0.00
Unknown counties	7	10	4	0.40	1.00	1.98	1.21
Mixed counties	0	0	0	0.00	0.00	0.00	0.00
STATE TOTALS	220	506	330	0.65	1.57	100	100

*Based on county of residence

Table 6. Summary of Hungarian partridge bagged per hunter-day by region and county, 1971-75.

Region and County	1971	1972	1973	1974	1975
<u>Northern</u>					
Box Elder	0.94	0.56	0.54	0.84	0.69
Cache	0.87	0.70	0.91	0.68	0.66
Davis	0.50	1.33	0.12	2.00	0.40
Morgan	1.24	1.14	0.58	0.50	0.88
Rich	1.33	0.43	1.25	0.33	0.43
Summit	1.50	0.50	0.34	1.25	0.20
Weber	0.75	0.78	0.33	0.25	0.22
REGIONAL TOTALS	0.94	0.65	0.57	0.76	0.68
<u>Central</u>					
Juab	0.00	0.00	1.40	1.00	0.33
Salt Lake	0.50	0.00	0.19	0.60	1.67
Sanpete	--	1.00	2.00	0.67	0.00
Tooele	0.20	0.17	0.06	0.00	0.50
Utah	0.17	0.15	0.38	0.35	0.88
Wasatch	0.71	0.44	0.79	0.42	0.44
REGIONAL TOTALS	0.54	0.33	0.57	0.36	0.71
<u>Southern</u>					
Beaver	--	--	0.00	0.00	0.00
Garfield	--	--	0.00	0.00	0.00
Iron	--	--	0.00	0.00	0.60
Kane	--	--	0.00	0.00	0.00
Millard	--	--	0.00	0.40	0.00
Piute	--	--	0.00	0.00	0.00
Sevier	0.60	--	1.00	0.00	0.00
Washington	1.00	--	0.00	0.00	0.00
Wayne	--	--	0.00	0.00	0.00
REGIONAL TOTALS	0.64	--	0.06	0.40	0.21
<u>Northeastern</u>					
Daggett	--	1.00	0.00	0.00	0.00
Duchesne	3.00	--	1.00	0.00	1.00
Uintah	--	0.00	0.00	0.33	0.00
REGIONAL TOTALS	3.00	0.20	0.20	0.33	0.56
<u>Southeastern</u>					
Carbon	0.00	0.33	0.00	0.00	0.00
Emery	--	--	0.00	0.00	0.00
Grand	--	--	0.00	0.00	0.00
San Juan	--	--	0.00	0.00	0.00
REGIONAL TOTALS	0.00	0.33	0.00	0.00	0.00
Unknown counties	1.17	1.46	0.00	0.84	0.40
Mixed counties	--	0.00	0.00	2.00	0.00
STATE TOTALS	0.85	0.60	0.52	0.68	0.65

Table 7. Distribution of Hungarian partridge harvest by region and county, 1971-75.

Region and County	1971	1972	1973	1974	1975
<u>Northern</u>					
Box Elder	55.45	48.15	37.22	54.50	46.97
Cache	10.91	13.58	19.24	13.11	15.45
Davis	0.23	2.47	0.63	1.54	0.61
Morgan	4.77	10.19	11.99	4.11	11.52
Rich	1.82	0.93	1.58	0.51	3.03
Summit	1.36	0.62	4.42	3.86	0.30
Weber	4.77	8.64	0.95	1.80	1.52
REGIONAL TOTALS	79.32	84.57	76.03	79.43	79.39
<u>Central</u>					
Juab	0.00	0.00	2.21	0.26	1.52
Salt Lake	0.68	0.00	2.52	3.86	3.03
Sanpete	--	0.62	0.63	1.03	0.00
Tooele	0.45	0.31	1.89	0.00	0.91
Utah	0.91	0.93	1.58	2.31	9.09
Wasatch	11.82	7.10	14.51	2.83	2.42
REGIONAL TOTALS	13.86	8.95	23.34	10.28	16.97
<u>Southern</u>					
Beaver	--	--	0.00	0.00	0.00
Garfield	--	--	0.00	0.00	0.00
Iron	--	--	0.00	0.00	0.91
Kane	--	--	0.00	0.00	0.00
Millard	--	--	0.00	0.51	0.00
Piute	--	--	0.00	0.00	0.00
Sevier	1.36	0.00	0.32	0.00	0.00
Washington	0.23	--	0.00	0.00	0.00
Wayne	--	0.00	0.00	0.00	0.00
REGIONAL TOTALS	1.59	0.00	0.32	0.51	0.91
<u>Northeastern</u>					
Daggett	--	0.31	0.00	0.00	0.00
Duchesne	2.05	--	0.32	0.00	1.52
Uintah	--	0.00	0.00	0.26	0.00
REGIONAL TOTALS	2.05	0.31	0.32	0.26	1.52
<u>Southeastern</u>					
Carbon	0.00	0.31	0.00	0.00	0.00
Emery	--	--	0.00	0.00	0.00
Grand	--	--	0.00	0.00	0.00
San Juan	--	--	0.00	0.00	0.00
REGIONAL TOTALS	0.00	0.31	0.00	0.00	0.00
Unknown counties	3.18	5.86	0.00	7.97	1.21
Mixed counties	--	0.00	0.00	1.54	0.00
STATE TOTALS	100	100	100	100	100

Table 8. Distribution of Hungarian partridge hunting pressure by region and county, 1971-75.

Region and County	1971	1972	1973	1974	1975
<u>Northern</u>					
Box Elder	50.49	51.68	36.24	44.54	44.66
Cache	10.68	11.75	11.04	13.20	15.22
Davis	0.39	1.12	2.80	0.53	0.99
Morgan	3.30	5.41	10.71	5.63	8.50
Rich	1.17	1.31	0.66	1.06	1.38
Summit	0.78	0.75	6.75	2.11	0.99
Weber	5.44	6.72	1.48	4.93	4.55
REGIONAL TOTALS	72.23	78.73	69.69	72.01	76.28
<u>Central</u>					
Juab	0.19	0.37	0.82	0.18	2.96
Salt Lake	1.17	1.12	7.08	4.40	1.19
Sanpete	--	0.37	0.16	1.06	0.00
Tooele	1.94	1.12	1.65	4.58	1.19
Utah	4.66	3.73	2.14	4.58	6.72
Wasatch	14.17	9.70	9.56	4.58	3.56
REGIONAL TOTALS	22.14	16.42	21.42	19.37	15.61
<u>Southern</u>					
Beaver	--	--	0.00	0.00	0.00
Garfield	--	--	0.00	0.00	0.00
Iron	--	--	0.00	0.00	0.99
Kane	--	--	0.00	0.00	0.00
Millard	--	--	2.80	0.88	0.00
Piute	--	--	0.00	0.00	0.00
Sevier	1.94	0.56	0.16	0.00	1.78
Washington	0.19	--	0.00	0.00	0.00
Wayne	--	0.19	0.00	0.00	0.00
REGIONAL TOTALS	2.13	0.75	2.97	0.88	2.77
<u>Northeastern</u>					
Daggett	--	0.19	0.16	0.00	0.40
Duchesne	0.58	--	0.16	0.00	0.99
Uintah	--	0.75	0.49	0.53	0.40
REGIONAL TOTALS	0.58	0.93	0.82	0.53	1.78
<u>Southeastern</u>					
Carbon	0.58	0.56	0.99	0.18	0.99
Emery	--	--	0.16	0.00	0.59
Grand	--	--	0.16	0.00	0.00
San Juan	--	--	0.16	0.00	0.00
REGIONAL TOTALS	0.58	0.56	1.48	0.18	1.58
Unknown counties	2.33	2.43	3.46	6.51	1.98
Mixed counties	--	0.19	0.16	0.53	0.00
STATE TOTALS	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 Hungarian partridge harvest statistics, 1955-75.

Year	Total Hunters	Total Harvest	Hunter Days Afield	Huns Per Hunter-Day	Huns Per Hunter
1955	--	--	--	--	0.39
1956	--	--	--	--	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	7,335	12,135	0.60	1.54
1973	3,566	6,014	11,516	0.52	1.69
1974	4,103	7,389	10,789	0.68	1.80
1975	3,409	5,358	8,216	0.65	1.57
TOTALS (1959-75)	72,393	160,844	181,110	0.89	2.22
AVERAGE (1959-74)	4,312	9,718	10,806	0.87	2.16

Table 10. Hungarian partridge field bag check summary, 1975.

Region and County	ALL HUNTS			COMPLETE HUNTS			Birds/100 Hrs. Hunter
	Total Parties	Total Hunters	Total Hours	Total Birds	Total Complete Hunts	Total Hours	
Northern							
Box Elder	24	66	203	25	12	138	0.60
Cache	2	5	20	2	10	20	0.40
Davis	--	--	--	--	--	--	--
Morgan	--	--	--	--	--	--	--
Rich	5	13	36	7	19	36	0.54
Summit	1	4	12	2	17	12	0.50
Weber	--	--	--	--	--	--	--
REGIONAL TOTALS	32	88	271	36	13	206	0.57
Central							
Juab							
Salt Lake							
Sanpete							
Tooele							
Utah							
Wasatch							
REGIONAL TOTALS							
Southern							
Beaver							
Garfield							
Iron							
Kane							
Millard							
Piute							
Sevier							
Washington							
Wayne							
REGIONAL TOTALS							
Northeastern							
Daggett							
Duchesne							
Uintah							
REGIONAL TOTALS							
Southeastern							
Carbon							
Emery							
Grand							
San Juan							
REGIONAL TOTALS							
STATE TOTALS	32	88	271	36	13	206	0.57

N O D A T A

N O T A P P L I C A B L E

N O T A P P L I C A B L E

N O T A P P L I C A B L E

Table 11. Hungarian partridge hunter success trend determined by field bag checks, 1970-75.

Region and County	1970		1971		1972		1973		1974		1975	
	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter	Birds/ 100 Hrs. Hunter
Northern												
Box Elder	11	0.69	13	0.80	16	0.78	12	0.78	23	1.36	12	0.60
Cache	--	--	57	1.00	15	0.42	--	--	--	--	10	0.40
Davis	--	--	--	--	--	--	--	--	--	--	--	--
Morgan	50	0.50	--	--	--	--	--	--	--	--	--	--
Rich	--	--	77	0.91	--	--	6	0.33	12	0.86	19	0.54
Summit	--	--	--	--	133	1.33	--	--	--	--	17	0.50
Weber	15	0.80	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	11	0.69	15	0.81	17	0.75	12	0.76	21	1.28	13	0.57
Central												
Juab	--	--	--	--	--	--	--	--	--	--	--	--
Salt Lake	--	--	100	2.00	--	--	--	--	--	--	--	--
Sanpete	--	--	--	--	--	--	--	--	--	--	--	--
Tooele	--	--	--	--	--	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--	--	--	--	--	--
Wasatch	15	0.35	--	--	--	--	0	0.00	--	--	--	--
REGIONAL TOTALS	15	0.35	100	2.00	--	--	0	0.00	--	--	--	--
Southern												
Beaver	--	--	--	--	--	--	--	--	--	--	--	--
Garfield	--	--	--	--	--	--	--	--	--	--	--	--
Iron	--	--	--	--	--	--	--	--	--	--	--	--
Kane	--	--	--	--	--	--	--	--	--	--	--	--
Millard	--	--	--	--	--	--	--	--	--	--	--	--
Piute	--	--	--	--	--	--	--	--	--	--	--	--
Sevier	--	--	--	--	--	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--	--	--	--	--	--
Wayne	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	--	--	--	--	--	--	--	--	--	--	--	--
Northeastern												
Daggett	--	--	--	--	--	--	--	--	--	--	--	--
Duchesne	--	--	--	--	--	--	--	--	--	--	--	--
Uintah	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	--	--	--	--	--	--	--	--	--	--	--	--
Southeastern												
Carbon	--	--	--	--	--	--	--	--	--	--	--	--
Emery	--	--	--	--	--	--	--	--	--	--	--	--
Grand	--	--	--	--	--	--	--	--	--	--	--	--
San Juan	--	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	--	--	--	--	--	--	--	--	--	--	--	--
STATE TOTALS	11	0.68	15	0.82	17	0.75	12	0.74	21	1.28	13	0.57

NOT APPLICABLE

NOT APPLICABLE

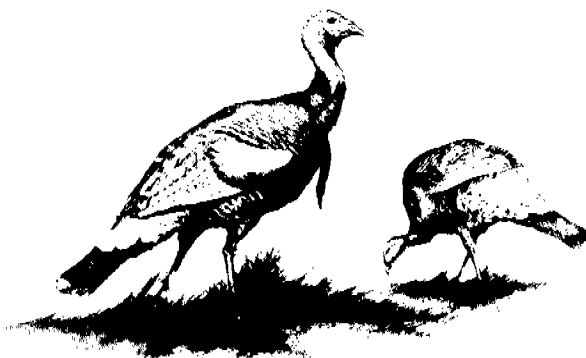
NOT APPLICABLE

WILD TURKEY

SUMMARY

Hunter success and turkey observational data for the 1975 spring season indicated a Statewide turkey population level similar to or slightly higher than 1974 but well below average.

Fall hunting pressure and consequently the total harvest increased over 1974 but was still at a very low level. Hunter success was higher than during the previous two seasons but was still below average.



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 1975 there were no turkey brood observations reported in the Southern Region and only 5 adults and 5 young observed in the Southeastern Region.

Harvest

Spring Gobbler Season

Results of the 1975 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 1975 spring season compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Permits sold	103	-15	-49
Hunters afield	97	-13	-49
Turkeys harvested	5	-17	-71
Hunter-days afield	219	-24	-55
Percent hunter success	5	0	-44
Turkeys bagged per hunter-day	0.03	+50	-25
Percent of hunters who observed turkeys	29	+32	-12
Crippling loss (loss:100 bagged)	0	0	--

Permit sales and hunters afield were the lowest since the initial season in 1967. Hunter success was 5 percent, the same as in 1974. Only 7 total turkeys were harvested. The percentage of hunters observing turkeys increased on East Zion, LaSal Mountain, Blue Mountain-Elk Ridge and in the mixed unit category. All indexes suggest a turkey population comparable to or higher than 1974.

Fall Season

Results of the 1975 fall season are shown in Table 3 of this section. The trend of these data since 1964 are shown in Tables 4-9. The 1975 season compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Permits sold	58	+100	-71
Hunters afield	46	+77	-75
Turkeys harvested	7	+133	-88
Hunter-days afield	115	+46	-73
Percent hunter success	15	+25	-35
Turkeys bagged per hunter-day	0.06	+50	-50
Percent of hunters observing turkeys	26	-32	-30
Reported crippling loss (loss:100 bagged)	0	--	--

The 1974 season was restricted to the LaSal Mountains and Blue Mountain-Elk Ridge areas. Consequently the above comparisons between 1975 and 1974 are less appropriate than the comparison between 1975 and the average. All harvest indexes for 1975 are well below the long-term average on a Statewide basis. Hunter success and percent of hunters observing turkeys increased on the LaSal Mountains between 1974 and 1975 but decreased on the Blue Mountain-Elk Ridge area to zero for the six hunters afield.

It appears from harvest data for the past two years that turkeys have disappeared or are extremely low on the Beaver Mountains and Pine Valley Mountains.

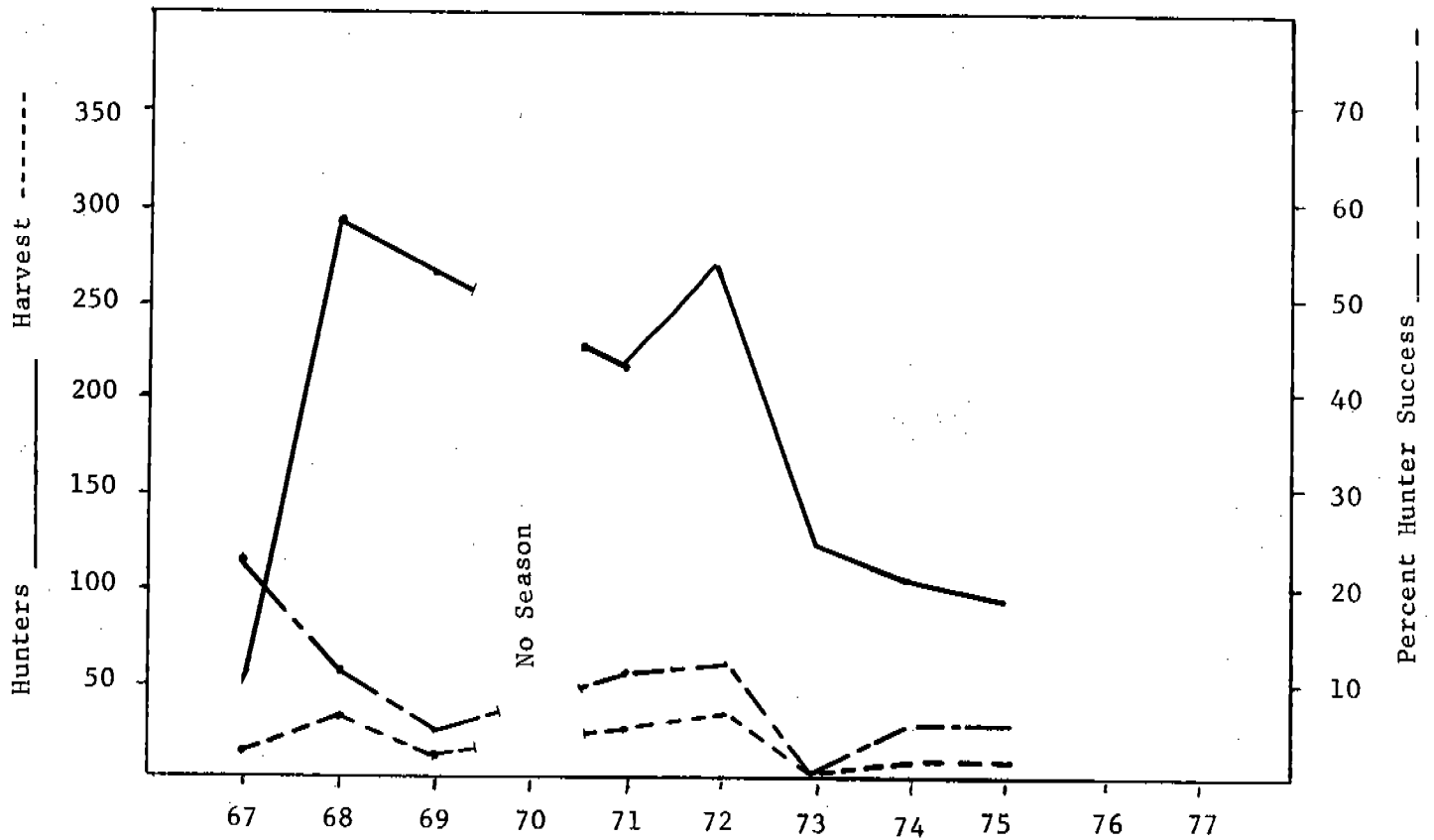


Figure 1. Wild turkey gobbler harvest trends for spring seasons.

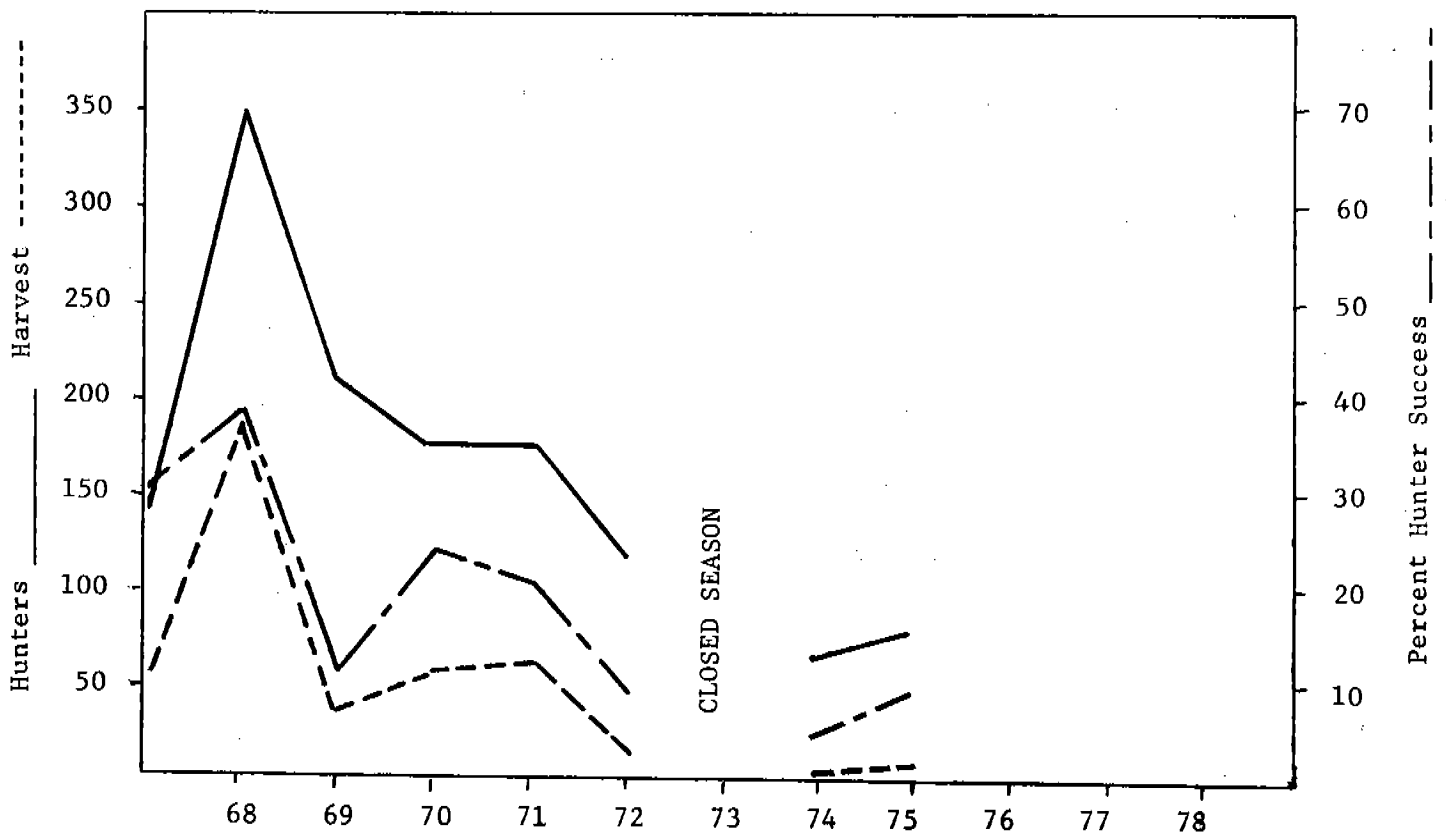


Figure 2. Wild turkey harvest trends for fall seasons.

Table 1. Summary of the 1975 spring turkey season.

	Blue Mtn.-												State Total			
	Elk Ridge		East Zion		Boulder		LaSal		Beaver		Pine Valley			Mixed Units		
	Rep't	Calc	Rep't	Calc	Rep't	Calc	Rep't	Calc	Rep't	Calc	Rep't	Calc	Rep't	Calc	Rep't	Calc
Permits sold															103	--
No hunts															5	6
Hunters afield	16	19	24	29	13	16	9	11	4	5	6	9	11	80	97	
Hunter days	51	62	35	42	28	34	25	30	6	7	10	12	32	181	219	
Turkeys bagged	1	1	2	3	1	1	0	0	0	0	0	0	0	4	5	
Percent success	6	--	8	--	7	--	0	--	0	--	0	--	0	5	--	
Turkeys bagged per hunter day	0.02	--	0.06	--	0.04	--	0	--	0	--	0	--	0	0.03	--	
Reported crippling loss (loss/100 bagged)	0	--	0	--	0	--	0	--	0	--	0	--	0	0	--	
Turkeys observed	26	--	39	--	2	--	8	--	0	--	0	--	4	79	--	
Gobblers	13	--	21	--	2	--	4	--	0	--	0	--	0	40	--	
Hens	11	--	9	--	0	--	4	--	0	--	0	--	3	27	--	
Unidentified	2	--	9	--	0	--	0	--	0	--	0	--	1	12	--	
Number of hunters who saw turkeys	9	--	8	--	1	--	3	--	0	--	0	--	2	23	--	
Percent of hunters who saw turkeys	56	--	33	--	8	--	33	--	0	--	0	--	22	29	--	
Projection factor																

Projection factor 1.2118

Table 2. Summary of turkey harvest statistics for spring gobbler seasons, 1967-1976.

Hunting Unit and Year	Hunters		Total Harvest	Hunter-days		Percent Success*	Turkeys per Hunter-day		Percent of Hunters Observing Turkeys	Total Permits**
	Afield			Afield			Hunter-day			
East Zion	1967	24	9	59	38	0.15	58			
	1968	130	16	364	11	0.04	48			
	1969	77	4	210	6	0.02	35			
	1970		NO SEASON							
	1971	106	14	272	12	0.05	38			
	1972	113	20	321	14	0.06	47			
	1973	43	0	96	0	0.00	14			
	1974	34	2	73	7	0.03	23			
	1975	29	3	42	8	0.06	33			
Boulder Mountains	1967	17	2	43	12	0.05	75			
	1968	134	15	330	10	0.05	33			
	1969	141	6	300	4	0.02	16			
	1970		NO SEASON							
	1971	27	1	64	4	0.02	13			
	1972	42	3	107	8	0.03	28			
	1973	22	0	52	0	0.00	6			
	1974	23	0	56	0	0.00	25			
	1975	16	1	34	7	0.04	8			
LaSal Mountains	1967	6	0	16	0	0.00	33			
	1968	17	0	44	0	0.00	62			
	1969	39	3	102	9	0.03	24			
	1970		NO SEASON							
	1971	17	1	34	6	0.03	20			
	1972	50	3	129	7	0.03	29			
	1973	23	0	53	0	0.00	16			
	1974	20	0	66	0	0.00	11			
	1975	11	0	30	0	0.00	33			
Beaver Mountains	1971	27	2	54	8	0.04	39			
	1972	17	2	53	13	0.04	20			
	1973	17	0	34	0	0.00	7			
	1974	1	0	1	0	0.00	0			
	1975	5	0	7	0	0.00	0			
Pine Valley Mountains	1971	23	4	92	15	0.04	70			
	1972	22	1	52	5	0.02	42			
	1973	17	0	38	0	0.00	7			
	1974	8	1	23	14	0.05	43			
	1975	6	0	12	0	0.00	0			
Blue Mountain - Elk Ridge	1974	17	2	34	13	0.07	27			
	1975	19	1	62	6	0.02	56			

Table 2. Continued

Hunting Unit and Year	Hunters Afield	Total Harvest	Hunter-days		Percent Success*	Turkeys per Hunter-day		Percent of Hunters Observing Turkeys	Total Permits**
			Afield	By Unit		Hunter-day	By Unit		
1967	2				0			0	
1968	9				12			12	
1969	10				0			11	
1970		NO SEASON							
1971	15	4			15			61	
1972	25	5	89		18			50	
1973	12	0	38		0			0	
1974	9	0	36		0			12	
1975	11	0	32		0			22	
1967	49	11	118		22			59	52
1968	290	31	738		11			41	310
1969	267	13	612		5			22	276
1970		NO SEASON							NO SEASON
1971	215	26	576		11			38	223
1972	269	35	751		12			39	285
1973	135	0	311		0			10	150
1974	112	6	289		5			22	121
1975	97	5	219		5			29	103
STATE AVERAGES (1967-74)	191	17	485		9			33	202

*Based on the number of hunters bagging one or more turkeys.

**Total permits are sold on a state basis and not by unit.

Table 3. Summary of the 1975 fall turkey season.

Data	Beaver Mtns.		Blue Mtn.- Elk Ridge		Boulder Mts.		East Zion		LaSal		State Totals**	
	Rep't	Calc	Rep't	Calc	Rep't	Calc	Rep't	Calc	Rep't	Calc	Rep't	Calc
Permits sold	--	--	--	--	--	--	--	--	--	--	58	--
No hunts	--	--	--	--	--	--	--	--	--	--	8	12
Hunters afield	3	5	4	6	9	13	9	13	6	9	31	46
Hunter days	9	13	10	15	24	36	12	18	22	33	77	115
Turkeys bagged	0	0	0	0	0	0	4	6	1	1	5	7
Percent success*	0	0	0	0	0	0	44	46	17	11	16	15
Turkeys bagged per hunter day	--	--	--	--	--	--	0.33	0.33	0.04	0.03	0.06	0.06
Reported crippling loss (loss/100 bagged)	0	--	0	--	0	--	0	--	0	--	0	--
Turkeys observed	0	--	0	--	0	--	36	--	21	--	57	--
Number of hunters who saw turkeys	0	--	0	--	0	--	4	--	4	--	8	--
Percent of hunters who saw turkeys	0	--	0	--	0	--	44	--	67	--	26	--

Projection factor 1.487 (58 ÷ 39)

*The season limit was one bird.

**No hunters reported hunting more than one area.

Table 4. Summary of Boulder Mountain wild turkey harvest data for fall hunts from 1966-75*.

Harvest Data	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Hunters afield	50	22	77	45	24	20	7			13
Hunter-days	132	71	195	103	77	46	17			36
Turkeys bagged	11	4	37	0	2	0	0			0
Percent success**	22	20	32	0	8	0	0			0
Percent bagging two turkeys	--	--	13	0	0	0	0			--
Birds bagged/day	0.08	0.06	0.19	0.00	0.03	0.00	0.00			0.00
Reported crippling loss (loss:100 bagged)	9	25	18	--	0	0	0			0
Turkeys observed	260	55	436	0	16	0	0			0
No. hunters who observed turkeys	22	8	27	0	2	0	0			0
Percent of hunters who observed turkeys	44	40	38	0	10	0	0			0

*Data for 1964 and later years via mailed questionnaires.

**Season bag limits from 1968-72 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 1966-75*.

Harvest Data	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Hunters afield	111	113	218	137	87	90	59			13
Hunter-days	266	334	569	374	203	229	154			18
Turkeys bagged	31	36	127	35	43	39	10			6
Percent success**	28	32	40	16	32	27	12			46
Percent bagging two turkeys	--	--	19	10	16	16	4			0.33
Birds bagged/day	0.12	0.11	0.22	0.9	0.21	0.17	0.06			--
Reported crippling loss (loss:100 bagged)	6	15	15	19	5	6	12			0
Turkeys observed	476	693	1661	426	469	264	96			36
No. hunters who observed turkeys	43	51	122	30	30	23	11			4
Percent of hunters who observed turkeys	39	50	60	25	40	31	22			44

CLOSED SEASON

CLOSED SEASON

*Data for 1964 and later via mailed questionnaires.

**Season bag limits from 1968-72 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 1966-75*.

Harvest Data	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Hunters afield			45	17	18	13	31		20	9
Hunter-days			119	51	30	27	70		61	33
Turkeys bagged			19	1	3	5	2		2	1
Percent success**			43	7	11	18	4		10	11
Percent bagging two turkeys			0	0	6	18	4		--	--
Birds bagged/day			0.16	0.02	0.10	0.18	0.02		0.03	0.03
Reported crippling loss (loss:100 bagged)			11	0	0	0	0		100	0
Turkeys observed			214	40	15	25	63		61	21
No. hunters who observed turkeys			21	1	3	3	7		6	4
Percent of hunters who observed turkeys			50	7	20	27	27		38	67

*Data for 1964 and later via mailed questionnaires.

**Season bag limits from 1969-72 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 fall hunts from 1970-1975.

Harvest Data	1970*	1971	1972	1973	1974	1975
Hunters afield	30	13	6			5
Hunter-days	87	24	12			13
Turkeys bagged	7	5	0			0
Percent success **	15	18	0			0
Percent bagging two turkeys	8	18	0			--
Birds bagged/day	0.08	0.20	0			0
Reported crippling loss(loss:100 bagged)	0	0	0			0
Turkeys observed	48	64	11			0
No. hunters who observed turkeys	8	5	2			0
Percent of hunters who observed turkeys	31	46	40			0

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

**Season bag limits from 1969-72 were two turkeys. Percent success was based on successful hunters rather than total turkeys bagged.

Table 8. Summary of Pine Valley Mountain wild turkey harvest data for fall hunts from 1970-1975.

Harvest Data	1970*	1971	1972	1973	1974	1975
Hunters afield	6	32	11			0
Hunter-days	21	87	19			0
Turkeys bagged	3	11	0			0
Percent success	50	23	0			0
Percent bagging two turkeys**	0	12	0			0
Birds bagged/day	0.14	0.13	0			0
Reported crippling loss (loss:100 bagged)	33	22	0			0
Turkeys observed	16	98	0			0
No. hunters who observed turkeys	4	9	0			0
Percent of hunters who observed turkeys	80	35	0			0

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

**Season bag limits from 1969-72 were two turkeys. Percent success was based on successful hunters rather than total turkeys bagged.

Table 9. Summary of Blue Mountain-Elk Ridge wild turkey harvest data for the fall hunt, 1974 -75.

Harvest Data	1974*	1975
Hunters afield	5	6
Hunter-days	9	15
Turkeys Bagged	1	0
Percent Success	20	0
Birds bagged/day	0.11	0.00
Reported crippling loss (loss:100 bagged)	0	0
Turkeys observed	20	0
No. hunters who observed turkeys	1	0
Percent of hunters who observed turkeys	20	0

*Wild turkeys were initially transplanted onto the Blue Mountains in 1957 and on Elk Ridge in 1959. These releases failed. Additional releases were made beginning in 1970 on Blue Mountain and 1972 on Elk Ridge with successful results, particularly on Blue Mountain.

Table 10. Statewide summary of wild turkey harvest for fall hunts from 1966 through 1975*.

Harvest Data	1966**	1967	1968**	1969	1970	1971	1972	1973	1974	1975	Averages (1963-74)
Permits sold	192	146	368	223	197	184	124	29	58	200	
Hunters afield	187	135	344	210	174	174	118	26	46	185	
Hunter-days	471	405	883	549	418	444	303	79	115	432	
Turkeys bagged	43	40	183	36	58	60	12	3	7	58	
Percent success***	23	30	38	11	24	21	7	12	15	23	
Percent bagging two turkeys	--	--	15	6	10	13	3	--	--	9	
Birds bagged/day	0.09	0.10	0.21	0.06	0.14	0.14	0.04	0.04	0.06	0.12	
Reported crippling loss (loss:100 bagged)	7	16	15	19	6	8	10	33	0	14	
Turkeys observed	756	748	2321	466	564	451	173	83	57	677	
No. hunters who observed turkeys	68	59	171	31	47	40	21	8	8	68	
Percent of hunters who observed turkeys	36	48	54	17	31	28	21	38	26	37	

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

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

***During 1968 the Boulder Mountain and East Zion units had two-bird season limits and the LaSal Mountain a one-bird limit; from 1969 through 1972 all areas had a two-bird limit. Hunter success was based on the number of successful hunters rather than total turkeys bagged.

RABBITS AND HARES

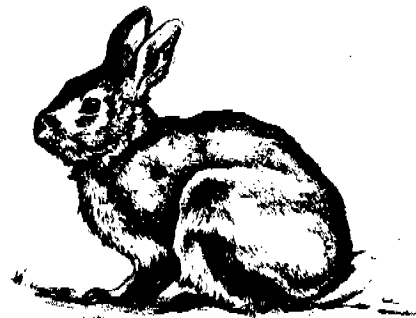
SUMMARY

The 1975 breeding population level was similar to 1974 (based on 1974 harvest statistics).

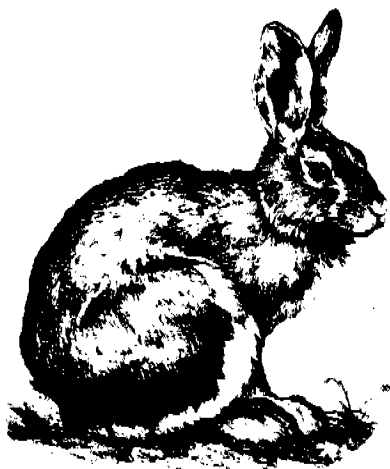
Effort on roadside counts (total miles of route) increased over 1974 but total cottontails observed, and thus cottontails per mile, decreased to a level below both 1974 and the average.

Total hunters, hunter-days, hunter success and harvest all increased over 1974 and all but the total hunter-days were below average. The greatest increase was evident in the Northeastern and Southeastern regions.

Cottontail Rabbits



Snowshoe Hares



During 1975, the Utah State Legislature provided protected status for the snowshoe hare. The first annual hunting season was then established and an effort made to determine the annual harvest.

Results of the harvest questionnaire were apparently biased by misidentification of snowshoe hares and confusion with white-tailed jackrabbits. Harvest estimates were considered to be substantially inflated.

COTTONTAIL RABBIT

Roadside Counts

Results of the annual roadside counts for 1975 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 1975 compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Total miles driven	2,850	+19	+13
Total cottontails counted	635	- 9	-32
Cottontails observed per mile	0.22	-24	-39
Young observed per 100 adults	132	+26	+28

Harvest data for 1974 indicated a Statewide breeding population for 1975 similar to 1974. Slightly higher levels were shown for the Central and Northeastern regions and lower for the Southeastern and Southern Regions.

Effort on roadside counts increased but total cottontails counted decreased from 1974. The cottontail per mile index was well below both 1974 and the average. Indicated production was higher than both 1974 and the average.

Harvest

Hunter Questionnaire

Results of the 1975 hunter questionnaire are found in Table 4. Trends of cottontails bagged per hunter-day, percent of harvest and percent of pressure (hunter-days) by county since 1967 are found in Tables 5-7. Trend of statewide harvest statistics is found in Table 9 and Figure 2. The 1975 season compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Cottontail hunters	24,803	+ 9	- 1
Cottontail harvest	154,182	+78	- 9
Hunter-days afield	116,707	+36	+12
Cottontails per hunter-day	1.32	+31	-19
Cottontails per hunter	6.22	+63	- 6

Total hunters increased over 1974 to near average while hunter-days increased to an above average level. Total harvest increased substantially over 1974 but was still below average. The increased success was evident in every region but the Northeastern and Southeastern regions showed the highest success and over 50 percent of the total harvest was reported from these areas.

Field Bag Checks

Results of this survey for 1975 are shown in Table 10. Trends of hunter success as determined by bag checks are shown in Table 11. The 1975 season compared to 1974 and the average as follows:

	<u>1975</u>	<u>Percent change from</u>	
		<u>1974</u>	<u>Average</u>
Total hunters checked	451	+29	+ 3
Total hours hunted	1,285	+33	+ 8
Cottontails per hunter (complete hunts)	1.80	- 6	+ 1
Cottontails bagged per 100 hours	43	- 4	-20
Hours per hunter-day (complete hunts)	5.0	+47	+61
Hours per cottontail bagged	2.8	+56	+40

Results of this survey showed a decrease in hunter success from 1974 to about average. The harvest questionnaire showed increased success between 1974 and 1975. The difference was probably due to disproportionate sampling with regard to both time and areas.

The average hunter-day was longer than both 1974 and the average and the time required per cottontail bagged was also above both 1974 and the average.

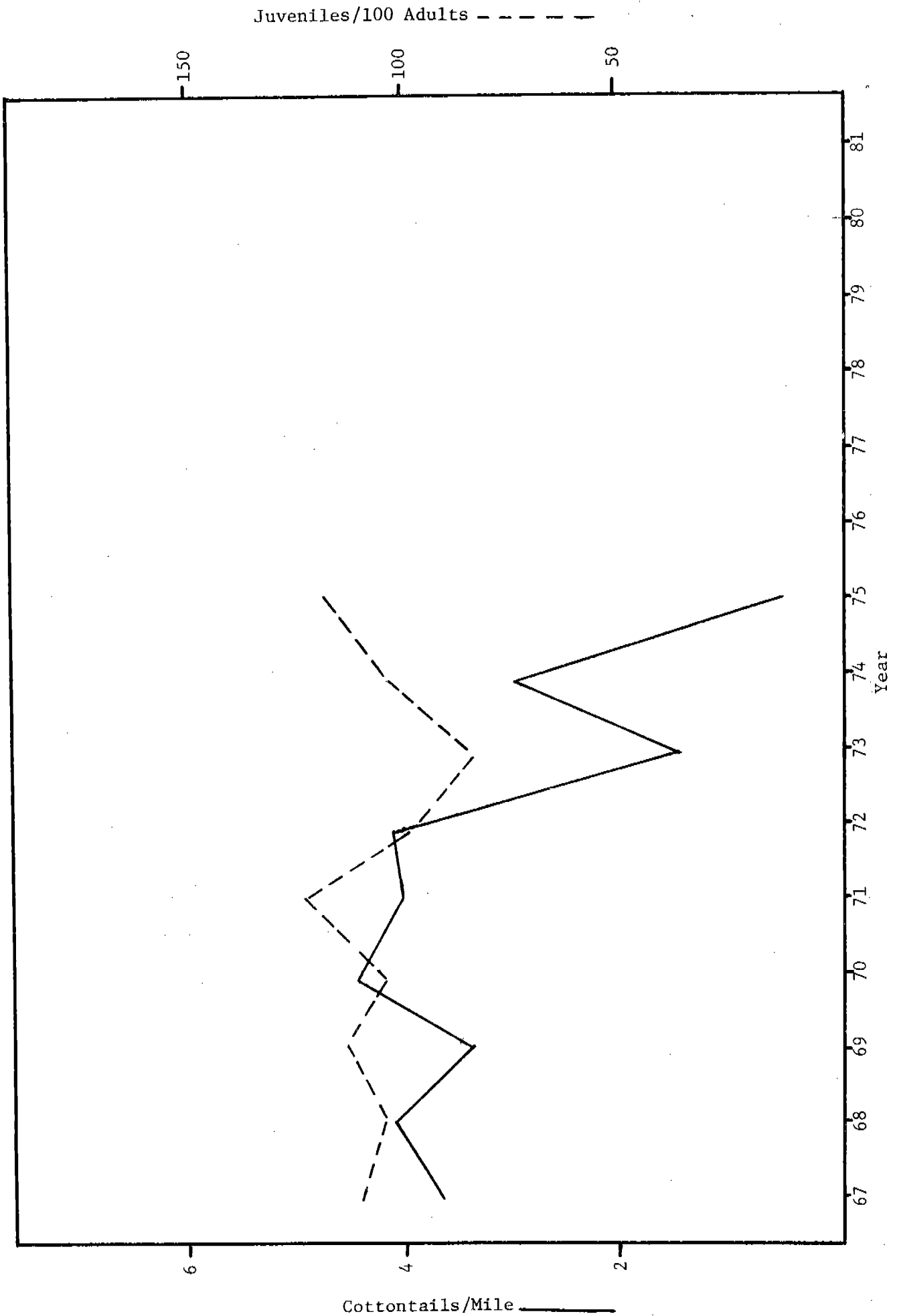


Figure 1. Cottontail Rabbit Population Indexes Trend.

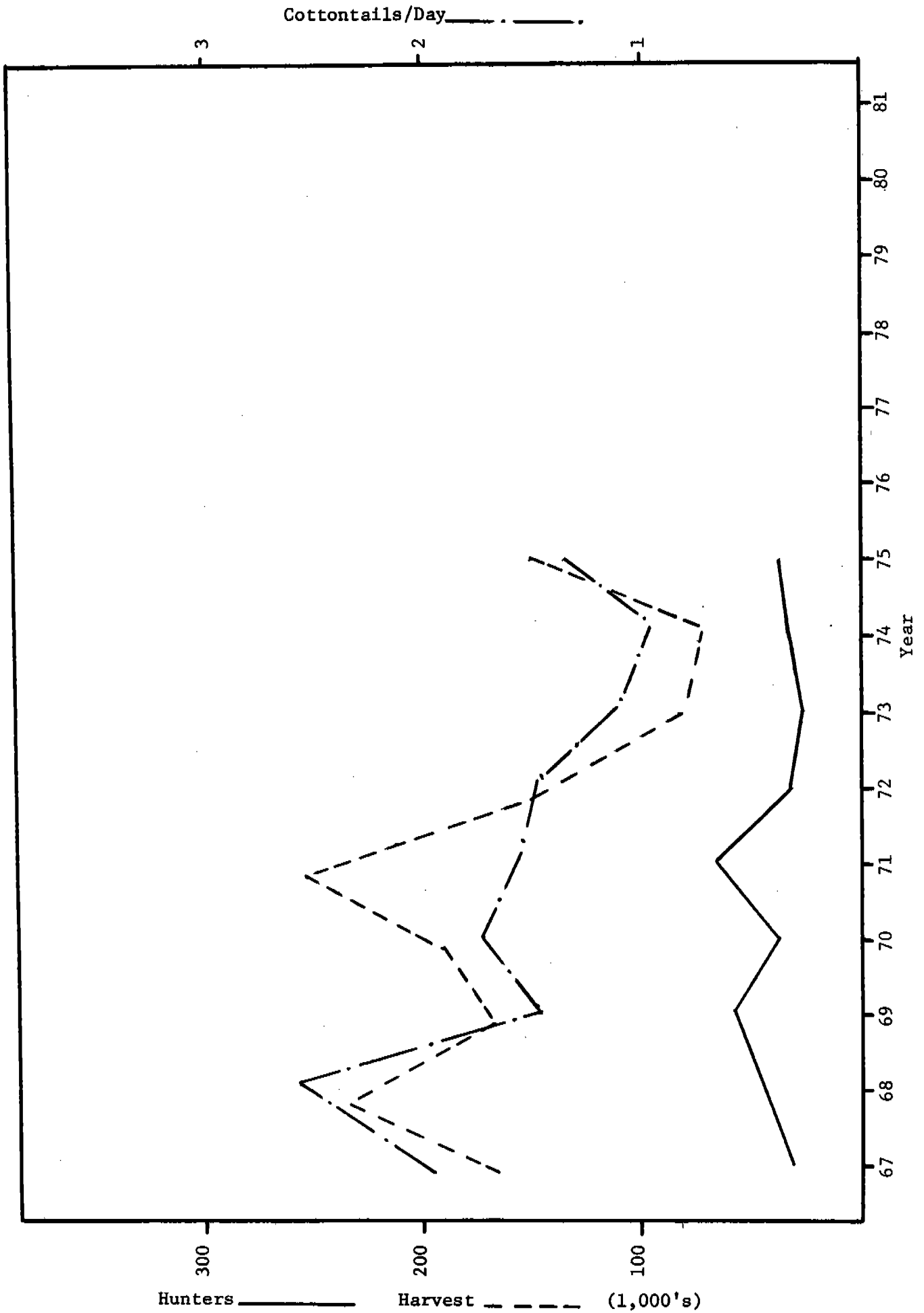


Figure 2. Cottontail Rabbit Harvest Trend

Table 1. Cottontail rabbit summer inventory summary, 1975.

Region and County	Miles Driven	Adults	Rabbits Observed Young	Unclass.	Total	Young per 100 Adults	Rabbits/Mile
Northern							
Box Elder	150	16	23	9	48	144	0.32
Cache	--	--	--	--	--	--	--
Davis	--	--	--	--	--	--	--
Morgan	90	0	2	0	2	--	0.02
Rich	90	9	5	0	14	56	0.16
Summit	--	--	--	--	--	--	--
Weber	--	--	--	--	--	--	--
REGIONAL TOTALS	330	25	30	9	64	120	0.19
Central							
Juab	81	3	2	1	6	67	0.07
Salt Lake	--	--	--	--	--	--	--
Sanpete	60	8	3	0	11	38	0.18
Tooele	90	2	2	0	4	100	0.04
Utah	--	--	--	--	--	--	--
Wasatch	--	--	--	--	--	--	--
REGIONAL TOTALS	231	13	7	1	21	54	0.09
Southern							
Beaver	120	5	0	0	5	0	0.04
Garfield	180	26	20	4	50	77	0.28
Iron	81	0	0	7	7	0	0.09
Kane	90	15	24	4	43	160	0.48
Millard	265	8	7	3	18	88	0.07
Piute	90	5	1	0	6	20	0.07
Sevier	141	9	4	2	15	44	0.11
Washington	180	32	68	1	101	212	0.56
Wayne	90	3	0	0	3	0	0.03
REGIONAL TOTALS	1,237	103	124	21	248	120	0.20
Northeastern							
Daggett	120	13	10	6	29	77	0.24
Duchesne	130	24	62	1	87	258	0.67
Uintah	90	9	19	1	29	211	0.32
REGIONAL TOTALS	340	46	91	8	145	198	0.43
Southeastern							
Carbon	202	11	25	1	37	227	0.18
Emery	180	7	0	0	7	0	0.04
Grand	120	15	7	0	22	47	0.18
San Juan	210	34	51	4	89	150	0.42
REGIONAL TOTALS	712	67	83	7	157	124	0.22
STATE TOTALS	2,850	254	335	46	635	132	0.22

Table 2. Summary of cottontail rabbits observed per mile during summer inventory, 1967-75

Region and County	1967	1968	1969	1970	1971	1972	1973	1974	1975	Average 1967-74
Northern Region										
Box Elder	0.36	0.78	0.50	0.76	0.43	0.37	0.06	1.01	0.32	
Cache	0	0.02	0.01	--	0.06	0.07	--	--	--	
Davis	--	--	--	--	--	--	--	--	--	
Morgan	0.02	0.17	0.10	--	0.28	--	0.14	0.01	0.02	
Rich	0.26	0.50	0.52	0.43	0.22	0.11	0.14	0.04	0.16	
Summit	0.16	0.22	0.08	0.39	--	0.13	--	--	--	
Weber	--	--	0.16	--	--	--	--	--	--	
Regional Totals	0.19	0.44	0.23	0.59	0.31	0.25	0.09	0.36	0.19	0.31
Central Region										
Juab	0.26	0.42	0.51	0.72	0.33	0.14	0.13	--	0.07	
Salt Lake	0.01	0	0	--	--	--	--	--	--	
Sanpete	0.30	0.36	0.53	0.63	0.77	0.72	0.33	0.23	0.18	
Tooele	0.07	0.34	0.28	0.28	0.22	0.14	0.02	0.06	0.04	
Utah	--	--	--	--	--	--	--	--	--	
Wasatch	--	--	--	--	--	--	--	--	--	
Regional Totals	0.15	0.29	0.32	0.54	0.46	0.33	0.18	0.14	0.09	0.30
Southern Region										
Beaver	0	0.23	0.36	--	0.18	0.36	0.29	0.33	0.04	
Garfield	0.15	0.25	0.48	0.48	0.33	0.29	0.12	0.14	0.28	
Iron	0.09	0.64	0.40	--	0.38	0.58	0.00	0.06	0.09	
Kane	0.67	--	--	0.71	0.17	0.60	0.32	0.26	0.48	
Millard	0.22	0.30	0.39	0.28	0.15	0.29	0.11	0.10	0.07	
Piute	0.01	0.09	0	0	0	0	--	0.02	0.07	
Sevier	0.18	0.13	0.47	0.58	0.46	0.41	0.10	0.18	0.11	
Washington	0.80	0.55	0.61	0.17	0.46	1.16	0.57	1.30	0.56	
Wayne	0.08	0.10	0.12	--	0.08	0.07	0.04	0.06	0.03	
Regional Totals	0.27	0.32	0.35	0.35	0.25	0.48	0.19	0.32	0.20	0.32
Northeastern Region										
Doggett	1.93	0.81	0.60	0.77	0.76	0.73	0.50	0.24	0.24	
Duchesne	1.40	0.77	0.68	0.56	0.58	0.24	0.14	0.29	0.67	
Uintah	1.00	0.98	0.84	1.56	1.39	0.97	0.14	0.19	0.32	
Regional Totals	1.30	0.82	0.68	0.93	0.89	0.60	0.26	0.24	0.43	0.72
Southeastern Region										
Carbon	0.05	0.64	0.13	0.13	0.24	0.20	0.46	0.15	0.18	
Emery	0.37	0.33	0.17	0.20	0.04	0.30	0.06	0.08	0.04	
Grand	0.34	0.16	--	0.14	0.53	0.66	0.07	0.14	0.18	
San Juan	0.58	0.64	0.50	0.30	0.97	0.48	--	0.58	0.42	
Regional Totals	0.39	0.42	0.21	0.25	0.53	0.45	0.19	0.28	0.22	0.34
STATE TOTALS	0.35	0.41	0.32	0.50	0.44	0.43	0.18	0.29	0.22	0.36

Table 3. Summary of cottontail rabbits young per 100 adults ratios, 1967-75

Region and County	1967	1968	1969	1970	1971	1972	1973	1974	1975	Averages 1967-74
Northern Region										
Box Elder	94	106	94	95	129	62	100	173	144	
Cache	--	--	0	--	0	0	--	--	--	
Davis	--	--	--	--	--	--	--	0	--	
Morgan	--	100	900	--	25	--	--	0	56	
Rich	125	86	186	40	80	100	50	--	--	
Summit	67	56	33	64	--	14	--	--	--	
Weber	--	--	75	--	--	--	--	--	--	95
Regional Totals	104	97	115	76	100	56	73	145	120	
Central Region										
Juab	175	257	239	246	171	117	100	--	67	
Salt Lake	--	--	0	--	--	--	--	50	38	
Sanpete	257	133	311	123	144	148	142	67	100	
Tooele	200	113	127	100	100	100	0	--	--	
Utah	--	--	--	--	--	--	--	--	--	
Wasatch	--	--	--	--	--	--	--	--	--	154
Regional Totals	218	179	224	157	145	135	121	53	54	
Southern Region										
Beaver	--	36	56	--	14	61	92	11	0	
Garfield	28	85	138	103	118	86	57	56	77	
Iron	200	75	33	--	162	100	0	100	0	
Kane	129	--	--	28	50	86	44	200	160	
Millard	32	143	22	41	32	271	32	82	88	
Piute	--	0	--	--	--	--	--	0	20	
Sevier	157	22	360	350	390	450	200	183	44	
Washington	271	71	114	22	71	11	81	98	212	
Wayne	100	50	300	--	167	50	200	50	0	
Regional Totals	115	75	85	68	93	64	67	92	120	82
Northeastern Region										
Daggett	56	62	34	57	81	121	63	87	77	
Duchesne	142	146	148	131	150	78	160	146	258	
Uintah	231	117	154	203	191	141	100	114	211	
Regional Totals	118	107	77	126	139	120	87	114	198	110
Southeastern Region										
Carbon	150	55	122	100	53	145	250	117	227	
Emery	73	238	200	183	100	125	16	40	0	
Grand	106	7	--	160	79	297	33	62	47	
San Juan	45	--	166	228	215	111	--	140	150	
Regional Totals	62	92	161	115	132	180	142	118	124	126

Table 4. Summary of cottontail rabbit hunter success and distribution of harvest and hunting pressure by region and county, 1975.

Region and County	Hunters Reporting	Days Hunted	Cottontails Bagged	Cottontails/Hunter-day	Cottontails per Hunter*	% of Pressure	% of Harvest
Northern							
Box Elder	125	346	431	1.25	8.00	8.88	8.37
Cache	21	59	18	0.31	1.41	1.51	0.35
Davis	16	42	9	0.21	2.49	1.08	0.17
Morgan	18	46	30	0.65	3.75	1.18	0.53
Rich	17	53	77	1.45	0.00	1.36	1.50
Summit	28	87	57	0.66	0.57	2.23	1.11
Weber	24	81	60	0.74	3.77	2.08	1.17
REGIONAL TOTALS	249	714	682	0.96	3.36	18.33	13.25
Central							
Juab	56	187	146	0.78	6.10	4.80	2.84
Salt Lake	32	70	66	0.94	4.14	1.80	1.28
Sanpete	34	127	81	0.64	2.00	3.26	1.57
Tooele	87	332	248	0.75	2.17	8.52	4.82
Utah	122	334	371	1.11	4.87	7.57	7.21
Wasatch	16	45	45	1.00	3.20	1.16	0.87
REGIONAL TOTALS	347	1,095	957	0.87	4.29	28.11	18.59
Southern							
Beaver	4	9	13	1.44	3.00	0.23	0.25
Garfield	6	16	16	1.00	8.00	0.41	0.31
Iron	17	77	65	0.84	6.83	1.98	1.26
Kane	4	36	83	2.31	7.67	0.92	1.61
Millard	19	80	56	0.70	7.00	2.05	1.09
Piute	3	7	8	1.14	0.00	0.18	0.16
Sevier	14	38	55	1.45	2.83	0.98	1.07
Washington	38	221	438	1.98	12.61	5.67	8.51
Wayne	12	33	57	1.73	27.67	0.85	1.11
REGIONAL TOTALS	117	517	791	1.53	9.58	13.27	15.37
Northeastern							
Daggett	9	33	24	0.73	0.00	0.85	0.47
Duchesne	68	264	492	1.86	15.33	6.78	9.56
Uintah	71	399	721	1.81	10.74	10.24	14.01
REGIONAL TOTALS	148	696	1,237	1.78	11.83	17.86	24.03
Southeastern							
Carbon	58	334	391	1.17	14.27	8.57	7.60
Emery	60	300	468	1.56	7.58	7.70	9.09
Grand	27	110	390	3.55	20.59	2.82	7.58
San Juan	22	127	230	1.81	11.62	3.26	4.47
REGIONAL TOTALS	167	871	1,479	1.70	13.81	22.36	28.74
Unknown counties	2	3	1	0.33	2.00	0.08	0.02
Mixed counties	0	0	0	0.00	0.00	0.00	0.00
STATE TOTALS	1,030	3,896	5,147	1.32	6.22	100	100

*Based on county of residence.

Table 5. Summary of cottontail rabbits bagged per hunter-day by region and county, 1967-75.

Region and county	1967	1968	1969	1970	1971	1972	1973	1974	1975
Northern									
Box Elder	1.81	3.54	2.29	2.62	2.28	1.48	0.90	1.03	1.25
Cache	1.35	3.00	1.87	2.00	2.02	1.71	0.52	1.12	0.31
Davis	0.78	0.27	1.10	0.56	0.60	0.57	0.85	0.66	0.21
Morgan	1.01	1.02	1.21	1.80	2.06	0.26	0.81	0.68	0.65
Rich	0.07	3.11	2.65	2.62	1.91	3.97	0.92	1.14	1.45
Summit	1.70	1.78	1.40	1.93	1.24	1.19	0.39	0.62	0.66
Weber	1.03	1.16	0.94	1.02	0.36	0.28	1.79	0.35	0.74
Regional Totals	1.49	2.81	2.02	2.41	1.90	1.28	0.87	0.86	0.96
Central									
Juab	1.89	2.58	1.74	2.38	1.75	1.14	0.70	0.90	0.78
Salt Lake	1.33	1.40	0.83	0.94	0.92	1.24	0.24	0.86	0.94
Sanpete	0.80	1.93	1.86	1.72	1.23	1.34	0.88	1.14	0.64
Tooele	1.59	1.62	1.27	1.50	1.60	1.25	0.84	0.79	0.75
Utah	1.19	1.55	1.24	1.11	1.32	1.10	0.69	0.81	1.11
Wasatch	1.21	1.39	0.59	1.80	0.95	1.26	0.68	0.57	1.00
Regional Totals	1.34	1.73	1.30	1.47	1.41	1.20	0.73	0.84	0.87
Southern									
Beaver	2.04	2.06	1.84	1.41	1.15	1.06	0.84	0.89	1.44
Garfield	2.83	2.26	0.96	0.62	2.40	1.45	2.24	1.45	1.00
Iron	1.18	2.82	1.57	0.99	1.74	1.31	0.55	0.61	0.84
Kane	4.04	3.30	0.00	0.75	0.20	1.62	1.18	1.57	2.31
Millard	2.25	2.69	1.34	2.43	2.26	1.87	1.47	1.15	0.70
Mute	4.45	1.33	1.43	1.00	0.46	0.75	2.50	0.08	1.14
Sevier	0.65	2.54	1.09	0.68	0.93	1.87	1.45	1.12	1.45
Washington	0.83	8.00	1.11	1.54	1.55	2.29	1.61	1.02	1.98
Wayne	1.50	4.00	0.79	1.39	1.58	2.15	0.74	1.08	1.73
Regional Totals	1.95	2.59	1.23	1.41	1.45	1.85	1.19	1.03	1.53
Northeastern									
Daggett	3.87	4.08	2.08	2.67	2.73	2.93	1.25	1.69	0.73
Duchesne	3.31	2.40	1.47	2.45	3.14	2.91	1.07	1.44	1.86
Uintah	3.53	3.69	1.95	2.30	1.80	1.47	1.10	0.96	1.81
Regional Totals	3.49	3.39	1.86	2.38	2.30	2.15	1.11	1.24	1.78
Southeastern									
Carbon	1.70	1.47	1.62	1.27	0.63	1.15	1.21	0.95	1.17
Emery	1.98	2.58	1.68	2.22	1.06	1.49	1.46	0.80	1.56
Grand	0.74	1.28	1.26	2.26	1.71	2.35	1.00	1.93	3.55
San Juan	3.35	2.20	1.39	2.04	2.73	2.13	2.26	2.12	1.81
Regional Totals	2.17	1.83	1.52	1.85	1.25	1.61	1.43	1.11	1.70
Unknown counties	0.38	1.03	0.53	1.79	1.13	0.76	0.64	2.13	0.33
Mixed counties								5.33	0.00
STATE TOTALS	1.95	2.42	1.54	1.86	1.65	1.46	1.02	1.01	1.32

Table 6. Distribution of cottontail rabbit harvest by region and county, 1971-75.

Region and County	1971	1972	1973	1974	1975
Northern					
Box Elder	19.42	14.54	7.48	11.33	8.37
Cache	1.33	2.02	0.87	1.19	0.35
Davis	0.63	0.38	0.67	0.42	0.17
Morgan	1.81	0.54	1.28	0.86	0.58
Rich	1.65	2.41	0.70	0.55	1.50
Summit	2.29	2.51	1.28	2.00	1.11
Weber	0.21	0.36	3.62	0.70	1.17
Regional Totals	27.35	22.75	15.88	17.04	13.25
Central					
Juab	4.27	3.67	3.10	4.35	2.84
Salt Lake	0.83	1.89	0.41	2.94	1.28
Sanpete	2.09	4.10	1.94	1.98	1.57
Tooele	8.83	6.56	8.32	4.19	4.82
Utah	6.26	6.51	6.81	9.84	7.21
Wasatch	1.65	2.46	1.45	0.55	0.87
Regional Totals	23.93	25.18	22.03	23.85	18.59
Southern					
Beaver	0.68	0.31	1.04	1.60	0.25
Garfield	0.14	0.26	1.10	0.70	0.31
Iron	2.62	1.72	2.20	0.92	1.26
Kane	0.15	0.21	0.38	0.97	1.61
Millard	4.85	5.34	4.64	4.63	1.09
Piute	0.22	0.05	0.14	0.02	0.16
Sevier	1.55	1.87	2.06	1.05	1.07
Washington	2.41	4.95	7.01	4.79	8.51
Wayne	0.59	0.46	1.07	1.25	1.11
Regional Totals	13.21	15.18	19.65	15.94	15.37
Northeastern					
Daggett	1.84	2.59	2.00	1.82	0.47
Duchesne	10.20	9.84	6.38	8.89	9.56
Uintah	10.79	7.03	6.72	5.99	14.01
Regional Totals	22.82	19.46	15.10	16.71	24.03
Southeastern					
Carbon	2.47	4.85	9.22	8.37	7.60
Emery	2.33	2.10	7.65	5.53	9.09
Grand	1.60	1.66	2.87	2.46	7.58
San Juan	4.61	6.51	7.33	5.20	4.47
Regional Totals	11.01	15.11	27.07	21.56	28.74
Unknown counties	1.56	2.08	0.26	4.55	0.02
Mixed counties				0.35	0.00
STATE TOTALS	100	100	100	100	100

Table 7. Distribution of cottontail rabbit hunting pressure by region and county, 1971-75.

Region and County	1971	1972	1973	1974	1975
<u>Northern</u>					
Box Elder	14.03	14.43	8.44	11.18	8.88
Cache	1.09	1.73	1.71	1.07	1.51
Davis	1.73	0.96	0.80	0.64	1.08
Morgan	1.45	3.10	1.59	1.27	1.18
Rich	1.43	0.89	0.77	0.49	1.36
Summit	3.05	3.10	3.30	3.27	2.23
Weber	0.94	1.90	2.07	2.04	0.08
REGIONAL TOTALS	23.72	26.10	18.68	19.95	18.33
<u>Central</u>					
Juab	4.03	4.73	4.51	4.91	4.80
Salt Lake	1.49	2.23	1.74	3.44	1.80
Sanpete	2.80	4.49	2.24	1.76	3.26
Tooele	9.09	7.66	10.09	5.40	8.52
Utah	7.81	8.69	10.12	12.31	8.57
Wasatch	2.88	2.86	2.18	0.98	1.16
REGIONAL TOTALS	28.09	30.67	30.89	28.79	28.11
<u>Southern</u>					
Beaver	0.98	0.43	1.27	1.82	0.23
Garfield	0.09	0.26	0.50	0.49	0.41
Iron	2.48	1.92	4.10	1.53	1.98
Kane	1.22	0.19	0.32	0.62	0.92
Millard	3.54	4.18	3.22	4.09	2.05
Piute	0.77	0.10	0.06	0.29	0.18
Sevier	2.75	1.46	1.45	0.96	0.98
Washington	2.56	3.17	4.43	4.75	5.67
Wayne	0.62	0.31	1.48	1.18	0.85
REGIONAL TOTALS	15.01	12.03	16.82	15.73	13.27
<u>Northeastern</u>					
Daggett	1.11	1.30	1.62	1.09	0.85
Duchesne	5.36	4.95	6.08	6.24	6.78
Uintah	9.88	7.01	6.20	6.29	10.24
REGIONAL TOTALS	16.35	13.26	13.90	13.62	17.86
<u>Southeastern</u>					
Carbon	6.53	6.20	7.73	8.93	8.57
Emery	3.63	2.07	5.34	6.98	7.70
Grand	1.54	1.03	2.92	1.29	2.82
San Juan	2.78	4.47	3.30	2.49	3.26
REGIONAL TOTALS	14.48	13.76	19.30	19.68	22.36
Unknown counties	2.28	4.01	0.41	2.16	0.08
Mixed counties				0.07	0.00
STATE TOTALS	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 1973 and six-year averages.

Month	Percent of Harvest							Percent of Hunting Pressure						
	1968	1969	1970	1971	1972	1973	1968-73 Average	1968	1969	1970	1971	1972	1973	1968-73 Average
September	6.3	7.8	7.6	7.1	7.8	10.9	7.9	6.5	7.0	8.1	7.0	8.1	9.3	7.7
October	12.0	11.5	11.3	12.8	21.3	13.4	13.7	14.1	12.2	12.4	14.4	16.7	15.3	14.2
November	22.6	24.6	21.2	22.7	22.5	28.8	23.7	21.4	23.3	21.8	21.1	23.0	26.8	22.9
December	28.6	24.2	25.7	26.2	23.4	21.5	24.9	25.0	24.1	22.7	23.4	20.4	24.3	23.3
January	20.0	19.9	21.2	19.4	15.9	16.6	18.8	20.9	20.0	20.0	19.1	18.4	15.7	19.0
February	9.2	9.6	10.4	8.7	7.5	6.9	8.7	11.7	10.8	11.5	10.8	10.0	6.7	10.2
March	1.2	2.4	2.6	3.1	1.5	1.8	2.1	1.2	2.6	3.4	4.2	3.4	1.9	2.8

Table 9. Statewide summary of cottontail rabbit harvest statistics, 1967-75.

Year	Total Hunters	Total Harvest	Hunter Days Afield	Cottontail Per Hunter-day	Cottontails* Per Hunter
1967	23,349	181,812	92,681	1.95	7.79
1968	26,889	225,450	93,126	2.42	8.38
1969	29,760	184,034	119,596	1.54	6.18
1970	24,486	195,248	103,725	1.88	7.97
1971	30,824	239,511	145,287	1.65	7.78
1972	22,835	155,102	105,941	1.46	6.79
1973	20,109	88,603	87,036	1.02	4.41
1974	22,737	86,506	85,499	1.01	3.80
1975	24,803	154,182	116,707	1.32	6.22
TOTALS (1967-75)	225,794	1,510,488	949,598	1.59	6.69
AVERAGES (1967-74)	25,124	169,533	104,111	1.62	6.64

*Based on county of residence.

Table 10. Cottontail rabbit field bag check summary, 1975.

Region and County	Total Parties	Total Hunters	Total Hours	Total Rabbits	Total Rabbits/100 Hrs.	Total Hunts	Total Complete Hunters	Total Hours	Total Rabbits	Total Rabbits/100 Hrs.	Rabbits/Hunter
Northern											
Box Elder	10	32	133	13	10	8	25	117	12	10	0.48
Cache	--	--	--	--	--	--	--	--	--	--	--
Davis	--	--	--	--	--	--	--	--	--	--	--
Morgan Rich	5	11	47	14	30	4	9	40	12	30	1.33
Summit	--	--	--	--	--	--	--	--	--	--	--
Weber	1	2	2	1	50	1	2	2	1	50	0.50
REGIONAL TOTALS	16	45	182	28	15	13	36	159	25	16	0.69
Central											
Juab	1	2	5	0	0	1	2	5	0	0	0.00
Salt Lake	--	--	--	--	--	--	--	--	--	--	--
Sanpete	--	--	--	--	--	--	--	--	--	--	--
Tooele	1	1	2	0	0	1	1	2	0	0	0.00
Utah	--	--	--	--	--	--	--	--	--	--	--
Wasatch	--	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	2	3	7	0	0	2	3	7	0	0	0.00
Southern											
Beaver											
Garfield											
Iron											
Kane											
Millard											
Piute											
Sevier											
Washington											
Wayne											
REGIONAL TOTALS											
NO DATA											
Northeastern											
Daggett	14	32	79	47	59	6	16	33	7	21	0.44
Duchesne	50	112	471	185	39	44	103	452	177	39	1.72
Uintah	43	86	201	174	87	21	43	118	126	107	2.93
REGIONAL TOTALS	107	230	751	406	54	71	162	603	310	51	1.91
Southeastern											
Carbon	4	10	14	8	57	2	3	5	6	120	2.00
Emery	5	12	36	2	6	3	5	12	0	0	0.00
Grand	7	17	17	19	112	2	3	5	10	200	3.33
San Juan	20	40	96	92	96	15	28	77	82	106	2.93
REGIONAL TOTALS	36	79	163	121	74	22	39	99	98	99	2.51
STATE TOTALS	161	451	1,285	555	43	108	240	1,191	433	36	1.80

Table 11. Cottontail hunter success trend determined by field bag checks, 1970-75.

Region and County	1970		1971		1972		1973		1974		1975	
	Bag/ 100 Hrs. Hunter	Bag/ Hunter	Bag/ 100 Hrs. Hunter	Bag/ Hunter	Bag/ 100 Hrs. Hunter	Bag/ Hunter	Bag/ 100 Hrs. Hunter	Bag/ Hunter	Bag/ 100 Hrs. Hunter	Bag/ Hunter	Bag/ 100 Hrs. Hunter	Bag/ Hunter
Northern												
Box Elder	85	2.12	--	--	10	0.38	--	--	10	1.00	10	0.48
Cache	--	--	--	--	100	0.50	--	--	--	--	--	--
Davis	--	--	--	--	--	--	--	--	--	--	--	--
Morgan	33	0.50	34	1.67	--	--	--	--	--	--	--	--
Rich	57	2.11	200	3.33	11	0.25	--	--	--	--	30	1.33
Summit	56	1.33	--	--	--	--	--	--	--	--	--	--
Weber	--	--	--	--	--	--	--	--	--	--	50	0.50
REGIONAL TOTALS	56	1.44	57	2.50	10	0.34	--	--	10	1.00	15	0.69
Central												
Juab	--	--	--	--	100	1.00	--	--	--	--	0	0.00
Salt Lake	--	--	--	--	--	--	--	--	33	0.50*	--	--
Sanpete	15	0.54	19	0.57	--	--	--	--	--	--	--	--
Tooele	21	0.88	--	--	38	1.50	14	0.50	20	0.61*	0	0.00
Utah	--	--	--	--	--	--	--	--	--	--	--	--
Wasatch	21	0.75	--	--	--	--	--	--	--	--	--	--
REGIONAL TOTALS	16	0.59	19	0.57	40	1.45	14	0.50	21	0.60*	0	0.00
Southern												
Beaver	--	--	--	--	--	--	--	--	--	--	--	--
Garfield	52	1.20	--	--	--	--	--	--	138	6.11	--	--
Iron	--	--	--	--	--	--	--	--	--	--	--	--
Kane	--	--	25	1.00	--	--	--	--	--	--	--	--
Millard	50	0.30	--	--	--	--	--	--	--	--	--	--
Piute	--	--	--	--	--	--	--	--	--	--	--	--
Sevier	383	3.83	--	--	--	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--	--	--	--	--	--
Wayne	--	--	38	1.50	--	--	--	--	--	--	--	--
REGIONAL TOTALS	34	1.52	31	1.25	--	--	--	--	138	6.11	--	--
Northeastern												
Daggett	58	1.84	119	1.58	109	1.83	--	--	36	0.40	59	0.44
Duchesne	31	0.95	21	0.85	101	4.32	94	4.43	19	1.05	39	1.72
Uintah	112	2.28	55	1.15	101	6.10	55	4.10	36	1.68	87	2.93
REGIONAL TOTALS	57	1.72	57	1.29	103	4.05	78	4.33	30	1.39	54	1.91
Southeastern												
Carbon	77	4.00	59	1.94	98	2.17	80	1.47	100	2.35	57	2.00
Emery	--	--	17	0.20	6	0.27	127	1.00	17	0.50	6	0.00
Grand	--	--	70	2.13	--	--	--	--	--	--	112	3.33
San Juan	33	4.00	44	1.25	78	2.32	73	1.95	44	2.00	96	2.93
REGIONAL TOTALS	43	4.00	56	1.72	58	2.21	77	1.61	47	1.15	74	2.51
STATE TOTALS	42	1.32	43	1.20	58	2.27	77	2.15	45	1.91	43	1.80

*Cottontails per hunter based on all hunts.

SNOWSHOE HARE

During 1975, the snowshoe hare (Lepus americanus) was provided protected status by the Utah Legislature. Prior to that time, the harvest of this species was unregulated and no information was compiled concerning numbers bagged by hunters.

As an initial step in the development of a management program, the Division of Wildlife Resources recommended and the Wildlife Board adopted a hunting season for the fall and winter of 1975-76. It was established to run concurrently with the annual cottontail rabbit season from September 20, 1975 through January 31, 1976 with daily bag and possession limits of 5 and 10 respectively. A small game or combination license was required for hunting snowshoe hares.

The establishment of a season provided the basis for determining the annual harvest and to obtain information concerning the distribution, abundance and population trends of the species.

Experience has demonstrated that the snowshoe hare is not well known by Utah residents. It is generally confused with the more widely distributed and abundant white-tailed jackrabbit (Lepus townsendii), with which it shares the distinction of annually changing to a white, winter pelage.

Following the close of the hunting season, a rabbit and hare questionnaire was distributed to a 15-percent sample of eligible licensees selected from the 1974 license file. After considering the potential misreporting of white-tailed jackrabbits, an unprotected species, as snowshoe hares, it was decided that a questionnaire incorporating not only cottontails and snowshoes but both white and black-tailed jackrabbits as well would be appropriate. Descriptions and drawings of each species and their habitat were sent to sportsmen along with the questionnaire. It was assumed that this approach would force a decision between white-tailed jackrabbits and snowshoe hares and, given adequate descriptive material, enable the proper separation of the two. Results of the harvest survey suggest that this was largely the case but that many sportsmen still confused the two species.

Harvest

Snowshoe hare harvest statistics compiled from the questionnaire are shown below:

Total hunters - 5,961
Total harvest - 12,072
Total hunter-days - 19,770
Snowshoes per hunter-day - 0.61
Snowshoes per season - 2.03

A summary of reported harvest, hunter-days, hunter success and distribution of hunting pressure and harvest by county and region is shown in Table 12.

The distribution of the snowshoe in Utah was described by Durrant (Mammals of Utah, Stephen D. Durrant, 1952; University of Kansas Publications, Museum of Natural History, Vol. 6:1-549) as follows:

Insofar as I know, these hares are strictly Boreal and are found only in the Uinta, Wasatch, Wasatch Plateau, Fishlake, Beaver, Iron and Boulder Mountains, where they are limited to the coniferous forest.

Evaluation of the reported harvest based on this description indicates that substantial confusion of the snowshoe hare with white-tailed jackrabbits, and possibly other species, is incorporated in harvest data derived from the questionnaire. This fact is exemplified by the relatively large reported harvest in Box Elder and Tooele counties. Both of these areas lie outside of Durrant's reported range. Elimination of these areas would substantially reduce total hunter and harvest estimates but would still not give accurate information. Respondents who misreported their harvest of whitetails as snowshoe hares certainly were not confined to those two counties.

The concentration of the reported harvest in the northern counties or those including portions of the mountain ranges mentioned by Durrant suggests some reliability of the data obtained; however, that distribution of harvest also conforms to the range of the white-tailed jackrabbit described by Durrant.

The estimated harvest of 34,543 white-tailed jackrabbits derived from this same questionnaire suggests that most sportsmen did distinguish the two species but there is no way to identify those who failed to make that distinction.

It seems evident that the actual harvest of snowshoe hares during this initial season was substantially lower than shown by the questionnaire. How much lower is problematical but, judging from the reported harvest in Box Elder and Tooele which almost certainly has to be white-tailed jackrabbits, it is suspected that most of the reported harvest of snowshoes was actually white-tailed jackrabbits. Future harvest questionnaires must be altered to further sort out the snowshoe hare harvest. Because of the apparent inaccuracies of this initial harvest determination the estimates obtained should not be published.

Table 12. Summary of snowshoe hare hunter success and distribution of harvest and hunting pressure by region and county, 1975.

Region and County	Hunters Reporting	Days Hunted	Snowshoes Bagged	Snowshoes/Hunter-day	Snowshoes* per Hunter	% of Pressure	% of Harvest
Northern							
Box Elder	26	78	62	0.79	2.75	11.82	15.38
Cache	24	75	37	0.49	1.93	11.36	9.18
Davis	4	15	1	0.07	1.00	2.27	0.25
Morgan	10	18	12	0.67	1.33	2.73	2.98
Rich	12	28	34	1.21	0.00	4.24	8.44
Summit	26	79	27	0.34	2.60	11.97	6.70
Weber	9	40	16	0.40	2.96	6.06	3.97
REGIONAL TOTALS	111	333	189	0.57	2.16	50.45	46.90
Central							
Juab	2	2	1	0.50	1.00	0.30	0.25
Salt Lake	9	13	11	0.85	1.79	1.97	2.73
Sanpete	7	31	12	0.39	5.00	4.70	2.98
Tooele	8	44	35	0.80	0.50	6.67	8.68
Utah	21	55	26	0.47	1.83	8.33	6.45
Wasatch	15	27	18	0.67	1.50	4.09	4.47
REGIONAL TOTALS	62	172	103	0.60	1.83	26.06	25.56
Southern							
Beaver	2	2	1	0.50	0.00	0.30	0.25
Garfield	2	8	0	0.00	0.00	1.21	0.00
Iron	1	1	1	1.00	1.00	0.15	0.25
Kane	0	0	0	0.00	0.00	0.00	0.00
Millard	0	0	0	0.00	0.00	0.00	0.00
Piute	1	1	1	1.00	0.00	0.15	0.25
Sevier	8	19	9	0.47	0.00	2.88	2.23
Washington	1	1	0	0.00	0.00	0.15	0.00
Wayne	2	4	5	1.25	2.50	0.61	1.24
REGIONAL TOTALS	17	36	17	0.47	1.00	5.45	4.22
Northeastern							
Daggett	4	8	11	1.37	0.00	1.21	2.73
Duchesne	8	16	11	0.69	0.00	2.42	2.73
Uintah	11	23	21	0.91	1.00	3.48	5.21
REGIONAL TOTALS	23	47	43	0.91	0.88	7.12	10.67
Southeastern							
Carbon	14	57	46	0.81	5.25	8.64	11.41
Emery	6	15	5	0.33	1.00	2.27	1.24
Grand	0	0	0	0.00	0.00	0.00	0.00
San Juan	0	0	0	0.00	0.00	0.00	0.00
REGIONAL TOTALS	20	72	51	0.71	4.78	10.91	12.66
STATE TOTALS	233	660	403	0.61	2.03	100	100

*Based on county of residence.

APPENDIX

Table 1. Comparison of 1975 monthly average temperatures to the normal for each weather division and statewide.

Weather Division	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
No. 1 WESTERN												
Normal	25.9	32.0	38.0	47.2	56.4	64.4	74.0	72.0	62.4	50.6	37.2	28.6
1975	25.1	32.2	37.9	40.9	52.0	62.7	74.4	69.5	62.4	48.9	34.6	30.4
Departure (degrees)	-0.8	+0.2	-0.1	-6.3	-4.4	-1.7	+0.4	-2.5	0	-1.7	-2.6	+1.8
No. 2 DIXIE												
Normal	39.0	44.1	49.2	57.6	66.5	75.2	82.6	80.6	73.7	62.5	48.4	40.2
1975	36.9	40.9	45.8	49.6	62.1	73.5	80.9	78.1	73.4	59.3	46.3	41.9
Departure (degrees)	-2.1	-3.2	-3.4	-8.0	-4.4	-1.7	-1.7	-2.5	-0.3	-3.2	-2.1	+1.7
No. 3 NORTH CENTRAL												
Normal	26.7	31.9	38.5	48.3	57.5	65.0	74.6	72.7	63.5	51.7	38.5	29.7
1975	23.4	30.6	38.0	41.3	52.3	62.3	75.4	69.7	62.5	49.8	35.4	30.0
Departure (degrees)	-3.3	-1.3	-0.5	-7.0	-5.2	-2.7	+0.8	-3.0	-1.0	-1.9	-3.1	+0.3
No. 4 SOUTH CENTRAL												
Normal	26.9	31.3	36.9	45.6	54.4	62.3	70.0	68.1	60.5	50.0	37.6	29.3
1975	25.4	28.9	35.6	38.2	49.6	59.9	69.3	66.3	60.1	48.1	35.1	29.7
Departure (degrees)	-1.5	-2.4	-1.3	-7.4	-4.8	-2.4	-0.7	-1.8	-0.4	-1.9	-2.5	+0.4
No. 5 NORTHERN MOUNTAINS												
Normal	20.9	24.3	30.2	40.8	49.9	56.8	65.1	63.2	55.0	45.0	32.3	24.2
1975	19.4	23.7	30.6	34.1	44.9	53.6	65.4	60.3	53.7	42.8	29.5	25.2
Departure (degrees)	-1.5	-0.6	+0.4	-6.7	-5.0	-3.2	+0.3	-2.9	-1.3	-2.2	-2.8	+1.0
No. 6 UINTA BASIN												
Normal	16.8	23.9	35.0	46.7	56.4	63.8	71.5	69.2	60.4	48.7	34.1	22.1
1975	18.6	24.1	36.6	41.3	52.2	60.4	72.5	67.2	60.1	46.4	31.9	18.7
Departure (degrees)	+1.8	+0.2	+1.6	-5.4	-4.2	-3.4	+1.0	-2.0	-0.3	-2.3	-2.2	-3.4
No. 7 SOUTHEAST												
Normal	27.3	33.6	40.6	50.6	60.1	68.7	76.1	73.7	65.6	53.7	39.3	29.8
1975	25.2	32.8	40.5	44.6	55.8	65.2	75.5	72.4	64.9	52.3	38.0	30.2
Departure (degrees)	-2.1	-0.8	-0.1	-6.0	-4.3	-3.5	-0.6	-1.3	-0.7	-1.4	-1.3	+0.4
STATE AVERAGES												
Normal	26.0	31.3	38.3	48.1	57.3	65.2	73.4	71.4	63.0	51.7	38.1	29.1
1975	24.9	30.5	37.9	41.4	52.7	62.5	73.3	69.1	62.4	49.7	35.8	29.4
Departure (degrees)	-1.1	-0.8	-0.4	-6.7	-4.6	-2.7	-0.1	-2.3	-0.6	-2.0	-2.3	+0.3

Table 2. Comparison of 1975 monthly average precipitation to the normal for each weather division and statewide.

Weather Division	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
No. 1 WESTERN												
Normal	0.60	0.59	0.75	0.87	0.84	0.82	0.61	0.76	0.50	0.76	0.69	0.70
1975	0.55	0.35	1.45	0.86	1.49	0.76	1.27	0.41	0.33	0.93	0.47	0.34
Departure (inches)	-0.05	-0.24	+0.70	-0.01	+0.65	-0.06	+0.66	-0.35	-0.17	+0.17	-0.22	-0.36
No. 2 DIXIE												
Normal	1.15	1.21	1.30	0.91	0.53	0.38	0.89	0.95	0.67	0.88	0.91	1.17
1975	0.55	1.02	2.51	0.80	0.74	0.11	1.76	0.94	0.38	0.48	0.70	0.59
Departure (inches)	-0.60	-0.19	+1.21	-0.11	+0.21	-0.27	+0.87	-0.01	-0.29	-0.40	-0.21	-0.58
No. 3 NORTH CENTRAL												
Normal	1.47	1.32	1.62	1.96	1.67	1.50	0.59	0.94	0.85	1.36	1.49	1.56
1975	1.35	1.01	3.01	2.09	2.46	1.99	0.84	0.25	0.22	2.37	1.54	0.97
Departure (inches)	-0.12	-0.31	+1.39	+0.13	+0.79	+0.49	+0.25	-0.69	-0.63	+1.01	+0.05	-0.59
No. 4 SOUTH CENTRAL												
Normal	1.03	0.98	1.18	1.13	0.88	0.76	0.96	1.39	0.88	1.03	0.93	1.08
1975	0.72	0.81	1.83	1.00	1.63	0.69	1.72	0.80	0.60	0.66	0.79	0.53
Departure (inches)	-0.31	-0.17	+0.65	-0.13	+0.75	-0.07	+0.76	-0.59	-0.28	-0.37	-0.14	-0.55
No. 5 NORTHERN MOUNTAINS												
Normal	2.19	1.89	2.05	1.86	1.52	1.52	0.86	1.34	1.05	1.57	1.82	2.24
1975	2.09	1.73	2.76	2.08	3.12	2.19	0.85	0.39	0.47	2.25	2.05	1.20
Departure (inches)	-0.10	-0.16	+0.71	+0.22	+1.60	+0.67	-0.01	-0.95	-0.58	+0.68	+0.23	-1.04
No. 6 UINTA BASIN												
Normal	0.51	0.43	0.50	0.68	0.68	0.90	0.62	0.88	0.72	0.94	0.51	0.69
1975	0.59	0.41	1.38	0.46	1.97	1.53	1.34	0.32	0.23	0.54	0.47	0.13
Departure (inches)	+0.08	-0.02	+0.88	-0.22	+1.29	+0.63	+0.72	-0.56	-0.49	-0.40	-0.04	-0.56
No. 7 SOUTHEAST												
Normal	0.61	0.56	0.60	0.68	0.59	0.56	0.74	1.23	0.77	1.07	0.61	0.73
1975	0.50	0.67	1.46	0.92	0.86	0.52	1.55	0.27	0.52	0.44	0.59	0.52
Departure (inches)	-0.11	+0.11	+0.86	+0.24	+0.27	-0.04	+0.81	-0.96	-0.25	-0.63	-0.02	-0.21
STATE AVERAGES												
Normal	1.08	1.00	1.14	1.16	0.96	0.92	0.75	1.07	0.78	1.09	0.99	1.17
1975	0.91	0.86	2.06	1.17	1.75	1.11	1.33	0.48	0.39	1.10	0.94	0.61
Departure (inches)	-0.17	-0.14	+0.92	+0.01	+0.79	+0.19	+0.58	-0.59	-0.39	+0.01	-0.05	-0.56

Table 3. Number and percent of total upland game hunters afield who reported hunting each game species during 1971-75.

Species	Number of Hunters				Percent of Total					
	1971	1972	1973	1974	1975	1971	1972	1973	1974	1975
Pheasant	87,878	84,311	75,968	85,252	77,566	87.7	87.8	82.5	85.6	79.3
Chukars	17,917	16,685	13,888	16,412	16,156	17.9	17.4	15.1	16.5	16.5
Mourning doves	26,064	29,341	27,435	34,021	37,378	26.0	30.5	29.8	34.2	38.2
Sage grouse	12,893	13,040	10,017	12,214	13,996	12.9	13.6	10.9	12.3	14.3
Forest grouse	13,363	16,640	17,588	21,290	20,102	13.3	17.3	19.1	22.0	20.6
Quail	8,039	7,380	5,654	6,097	6,397	8.0	7.7	6.1	6.1	6.5
Hungarian partridge	4,276	4,754	3,566	4,103	3,409	4.3	4.9	3.9	4.1	3.5
Wild turkey**	389*	351*	135	138*	143*	0.4	0.4	0.1	0.1	0.1
Cottontail	30,824	22,835	20,109	22,737	24,803	30.8	23.8	21.8	22.8	25.4
Total Hunters	100,183	96,047	92,098	99,556	97,808					

* 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.

Table 4. Percent of hunter trips resulting in failure to bag at least one bird, 1961-75.

Year	Pheasants		Doves		Chukars		Sage Grouse		Forest Grouse		Quail		Huns								
	Bag	Hunt. %	Bag	Hunt. %	Bag	Hunt. %	Bag	Hunt. %	Bag	Hunt. %	Bag	Hunt. %	Bag	Hunt. %							
1961	714	3204	22	51	583	9	318	539	59	--	--	109	383	28	72	123	59				
1962	500	2685	19	39	456	9	147	362	41	--	--	62	201	31	36	108	33				
1963	795	3317	24	53	691	8	248	550	45	220	468	47	188	281	67	71	305	23	59	177	33
1964	911	3115	29	60	681	9	266	568	47	45	154	29	144	229	63	94	316	30	62	150	41
1965	1165	4009	29	--	--	--	486	851	57	82	168	49	225	311	72	128	371	34	93	233	40
1966	1242	4297	29	136	1067	13	423	881	48	54	131	41	133	331	40	106	315	34	63	219	29
1967	1353	4833	28	153	1319	12	477	915	52	138	266	52	194	475	41	161	424	38	116	315	37
1968	1422	5223	27	236	1312	18	495	1095	45	185	449	41	177	665	27	171	457	37	132	347	38
1969	1897	5335	36	214	1568	14	647	1250	52	241	648	37	273	646	42	182	465	39	148	292	51
1970	1546	4686	33	193	1274	15	466	962	48	257	603	43	209	666	31	126	314	40	101	210	48
1971	1783	5049	35	210	1333	16	464	934	50	234	625	37	223	673	33	162	385	42	87	210	41
1972	1743	4617	38	270	1421	19	457	827	55	259	593	44	271	794	34	154	339	45	120	224	54
1973	1659	4699	35	209	1596	13	414	824	50	226	553	41	329	1019	32	128	311	41	97	196	49
1974	2347	5323	44	323	1951	17	511	955	54	292	668	44	388	1259	31	157	333	47	108	227	48
1975	2472	5604	44	329	2554	13	607	1105	55	374	901	42	535	1354	40	177	406	44	121	220	55
Averages (1961-74)															31	13	50	42	43	37	43

Table 5. Regional and statewide summary of effort expended on upland game summer inventory, 1971-75.

Species	R E G I O N												STATE TOTALS				
	Northern		Central		Southern		Northeastern		Southeastern		Miles		Hours				
	Miles	Hours	Miles	Hours	Miles	Hours	Miles	Hours	Miles	Hours	Miles	Hours	Miles	Hours			
Pheasant																	
1971	507	--	878	--	796	--	588	--	346	--	3,115	--					
1972	469	--	963	--	752	--	535	--	297	--	3,016	--					
1973	322	--	691	--	740	--	488	--	320	--	2,561	--					
1974	479	--	819	--	848	--	508	--	317	--	2,971	--					
1975	490	--	846	--	993	--	515	--	393	--	3,237	--					
Quail																	
1971	192	24	389	40	344	28	587	49	140	13	1,652	154					
1972	46	9	342	30	575	39	870	63	120	8	1,953	149					
1973	80	10	264	35	32	8	538	38	25	17	939	108					
1974	24	4	43	27	853	66	227	28	214	21	1,361	146					
1975	27	8	107	23	841	64	594	43	230	12	1,799	150					
Chukar																	
1971	182	82	929	130	1,103	100	636	50	496	105	3,346	468					
1972	712	91	1,423	131	950	37	1,012	69	984	58	5,081	386					
1973	1,063	119	1,494	167	72	10	705	48	702	68	4,036	363					
1974	125	31	1,591	107	564	43	440	30	1,115	67	3,835	278					
1975	188	30	808	85	892	41	908	88	786	55	3,582	299					
Forest Grouse																	
1971	1,201	240	785	173	796	249	794	77	440	89	4,016	828					
1972	1,370	212	804	103	214	260	1,346	140	351	82	4,085	797					
1973	627	127	917	105	296	429	949	147	761	72	3,550	880					
1974	967	152	924	157	157	461	1,090	99	1,574	133	4,712	1,002					
1975	1,194	199	1,287	160	775	629	1,474	136	1,476	135	6,206	1,259					

Table 6. Season framework for upland game during 1975.

Species	Season Dates	Daily Bag Limit	Possession Limit	Area Open
Pheasant	Nov. 1-9	2 cocks	4 cocks	Statewide except Utah County
	Nov. 1-5	2 cocks	4 cocks	Utah County
	Nov. 1-30	2 cocks	4 cocks	All State and Federal lands (except in Utah County) subject to restrictions and closures imposed by administering agencies.
Mourning dove	Sept. 1-30	10	20	Statewide
Band-tailed Pigeon	Sept. 1-30	5	10	Grand, San Juan, Beaver, Garfield, Iron, Kane, Millard, Piute, Sevier, Washington, and Wayne counties.
Chukar	Sept. 20, 1975 to Jan 15, 1976	5	10	Statewide except Carbon, Emery, Grand and San Juan counties.
	Sept. 28-Nov. 30	8	16	Carbon, Emery, Grand and San Juan counties.
	Closed Season			Uintah County
Sage Grouse	Sept. 20-26	3	6	Beaver, Garfield, Iron, Kane, Millard, Piute, Sevier and Wayne counties.
	Sept. 20-26	2	4	Carbon, Daggett, Duchesne, Emery, Grand, San Juan, Uintah, Utah (part), and Wasatch (part).
	Sept. 20-26	1	2	Box Elder, Cache, Davis, Morgan, Rich, Summit, Tooele, Weber and Juab (part) counties.
	Sept. 20-21	1	2	Wasatch County (part)
	The following counties are closed to sage grouse hunting during 1974:			Salt Lake, Sanpete, Washington, Utah (part) and Juab (part).
Forest grouse	Sept. 20-Nov. 30	4 aggregate	8 aggregate	Statewide

Table 6. Continued

Species	Season Dates	Daily Bag Limit	Possession Limit	Area Open
Quail	Nov. 1-9	5	10	Statewide except Utah and Washington counties.
	Nov. 1-5	5	10	Utah County
	Nov. 1-Dec. 21	8	16	Washington County
Hungarian partridge	Sept. 20, 1975 to Jan. 15, 1976	8	16	Statewide except Uintah county.
	Closed Season			Uintah County
Wild turkeys Spring hunt	May 3-May 18	Season limit 1 gobbler		Beaver, Garfield, Grand, Iron, Kane, Piute, San Juan, Sevier, Washington (part) and Wayne counties.
	Fall hunt	Sept. 20-Oct. 5	Season limit one (1) turkey of either sex	Beaver, Garfield, Grand, Iron, Kane, Piute, San Juan, Sevier, Washington and Wayne counties.
Snowshoe hare	Sept. 20, 1975 to Jan. 31, 1976	5	10	Statewide
Cottontail rabbit	Sept. 20, 1975 to Jan. 31, 1976	10	20	Beaver, Carbon, Emery, Garfield, Grand, Iron, Juab, Kane, Millard, Piute, Salt Lake, San Juan, Sanpete, Sevier, Tooele, Utah, Wasatch and Wayne counties.
	Sept. 20, 1975 to Jan. 31, 1976	5	10	Box Elder, Cache, Daggett, Davis, Duchesne, Morgan, Rich, Summit, Uintah and Weber counties.
	Sept. 20, 1975 to Jan. 31, 1976	15	30	Washington County

Printed under Appropriation Number 01-59-07

Archives Approval 7600207