## 2017-18 CHUKAR FORECAST

The Nevada Department of Wildlife was able to conduct aerial chukar density surveys in all 13 transects established in northern Nevada (see Figure on opposite page) during the week of August 7-10, 2017. Funding for these surveys was made available through the Nevada Chukar Foundation. A series of thunderstorms occurred throughout the weekend prior to the survey which may have reduced the number of chukar observed. Overall, the results of the survey indicated a 27% decline in the number of birds observed per square mile from last year and was 8% below the long-term average.

There were only two transects that showed improvement this year (Sonoma and Pine Forest) while the Buffalo Hills transect remained relatively stable. All the other transects declined between 24% and 69% from last year. The Granites, Sheep Creek, Lava Beds, Selenite and Santa Rosa transects were all >60% below the prior year's results.

The broader distribution of water on the landscape and improved overall habitat conditions may have distrubted chukar more broadly, although an exceptionally strong winter might have taken a toll on chukar populations in terms winter mortality and may have contributed to the lower observed bird densities this year.

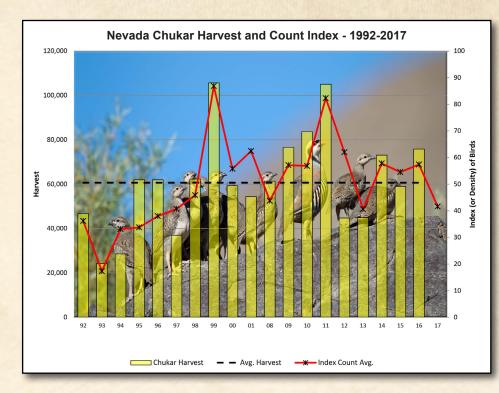
Foundation

	Nevada Aerial Chukar Density Survey Plots															NEVADA DEPARTMENT OF WILDLIFE	
		Birds Observed per Square Mile															
			Santa	Pine					Buffalo					Sheep	Overall		
	Year	Double H	Rosa	Forest	Jackson	Sonoma	Lava Beds	Selenite	Hills	Granites	Argenta	Izzenhood	Rock Creek	Creek	Average		
	90	62	76	57	168	64	47	8	35	17	69		115		65		
	91	23	51	59	134	3	26	7	46	23	33		56		42	N 19 1	
	92	26	40	90	76	2	14	7	41	41	25		36		36		
	93	6	6	51	42	7	16	6	4	0	20	23		17	17	レイ	
	94	21	13	80	66	18		11	22	6	20	23		28	33		
	95	32	17	41	55	19		11	23	9	62	16		29	34	Nevada	
	96	18	20	61	54	34	52	5	62	32	26	15		18	38	CHUKAR	
13	97	32	11		109						26	11	54	42	41	Foundat	
	98	18	45	44	140	37		11	31	53	46	13		58	46	foundat	e
	99	77	102	59	258	125		25	67	51	48	6		112	87		
	00	39	59	81	156	49		17	46	41	37	11	92	53	56		-
	01	81	85	130	109	31		31	32	100	35	23		58	62		4
	08	32	61	61	15	112		33	70	49	9	25		3	44		23
	09 10	49 62	41 87	195 109	82 56	104 66		21 31	58 76	35 66	28 40	32 37	21 46	17	57 57	Silve and	
1	10	59	37	109	130	167		103	70	54	40 62	59		37	82		1
	11	49	33	89	47	150		25	11	57	33	59		38	62	NO.	
	12	36	44	136	18	58		49	29	33	17	19		23	41	and the second s	
	14	59	61	83	75	71		66	71	58	28	35		36	58		
	15	47	76	107	59	62		35	74	62	24	47	47	21	55		
	16	77	26	74	69	48		46	88	57	54	35		39	57 🚄		
	17	37	8	145	38				90	22	41	20	19	15	44	A france of the second se	
	% Change	-52%	-69%	96%	-45%	-100%	-100%	-100%	2%	-61%	-24%	-43%	-56%	-62%	-20%		
	Min	6	3	40	15	2	14	5	4	0	9	6	17	3	9		
	Max	105	102	195	258	167	129	103	90	100	95	59	127	112	87		
	Avg	43	41	82	96	58	55	27	47	39	38	27	60	35	45		No.
	% Diff/Avg.	-14%	-80%	76%	-61%	-100%	-100%	-100%	90%	-44%	7%	-25%	-68%	-57%	-3%		31
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## 2017-18 CHUKAR FORECAST

Results from the online small game questionnaire indicated that harvest increased almost 29% from the 2015-2016 season, going from 58,988 to 75,850 birds in 2016-2017. Roughly the same number of hunters (n = 8,666 in 2016-2017 vs. 8,721 hunter in 2015-2016) pursued the species as in the prior season; however, the birds per hunter (n = 8.8) and birds per hunter day (n = 1.8) values were up by 29% and 26% respectively compared to the 2015-2016 season. These values were also up substantially from the 10-year averages as well. These results, coupled with a wet winter and greater availability of water suggested that the upcoming season was setting up to be a good one, but we may have misjudged the effects of an exceptionally wet winter with snow accumulations that had not been experienced for quite some time.

Some ground brood survey data was collected in Hunt Units 041-042 during the summer of 2017 which documented 480 birds of which 326 were young of the year for a young per adult ratio of 2.1. These results were below the long-term average of 3.3 young per adult for this region of the state. Hunters may expect to find fewer and smaller coveys throughout western Pershing County this season. Biologist reports from portions of Churchill County, such as the Sand Springs Range, indicate that numbers of birds and production here is better than what has been observed elsewhere in the state. Other reports suggested robust chukar numbers in Hunt Unit 012 in northern Washoe County.



Once again, and to everyone's frustration, wildfires ravaged the Rock Creek, Izzenhood and Sheep Creek transects north of Battle Mountain. The "Snowstorm Complex" and "Rooster's Comb" fires combined burned approximately 340,000 acres in this portion of the state during July 2017. This conflagration came on the heels of the 2016 "Hot Pot" fire which burned 122,000 acres in the Izzenhood Range. Chukar populations and other wildlife in the Izzenhood Range and along the Rock Creek Gorge were without much cover during the winter of 2016-2017 where much of the upper Humboldt Basin experienced upwards of 160% of average annual snowpack. The lack, or relative absence, of cover in the form of native shrubs, particularly sagebrush species, is likely having a negative impact on chukar populations during critical time periods such as heavy winter snow accumulations. Hunters are urged to avoid recently burned habitat (especially the Rooster's Comb Fire) to reduce distrubing already challenged wildlife populations and allow restoration efforts to establish. Hunters also should never travel offroad in burned habitats to avoid creating new and unneccessary roads.

