

1980-1983 DEER SUMMARY INDEX

	1980	1981	1982	1983
HUNTER HARVEST	51	55	36	61
VEHICLE KILLS	14	15	10	22
ESTIMATED POPULATION	458	515	351	622
Winter stress factor				
ADULT FEMALE	25 - 58.1%	15 - 30.0%	3 - 8.6%	8 - 2.9%
YEARLING MALE	5 - 11.6%	18 - 36.0	16 - 45.7%	29 - 80.0%
ADULT MALE	13 - 30.2%	9 - 18.0%	14 - 40.0%	32 - 56.2%
FAWN	0 - 0	8 - 16.0%	2 - 5.7%	-2.1%

Summary of Standard Deer Censuses
Craters of the Moon National Monument, 1983

(Compiled by Brad Griffith, Ph. 208-882-0200, Box 8817, Moscow, ID 83843)

Sex and Age		Date 1983						Mean (Std. error)	Percent Change From 1982	
		8/19	8/22	8/26	9/1	9/3	9/5			
Adult Male	# Ratio	1	1	3	11	4	5	4.2 (1.51) 11.4	- 16% —	N.S.
Yearling Male	# Ratio	4	3	4	8	4	6	4.8 (0.75) 13.2	+ 240% —	N.S.
Female	# Ratio	32	36	33	37	44	37	36.5 (1.73) 100.0	+171.4% —	N.S.
Fawns	# Ratio	29	31	36	28	48	51	37.2 (4.08) 101.8	+213.8% —	*
Unknown	# Ratio	0 —	0 —	0 —	0 —	0 —	0 —	0 —	↓ —	
Total	#	66	71	76	84	100	99	82.7 (5.85)	+181.0%	*

N.S. Not statistically significant at 95% confidence level

* Statistically significant at 95% confidence level

In spring of 1983, with a sample size of 96 deer, there were 73 yearlings per 100 does. Assuming a 50:50 sex ratio of yearlings this implies that about 0.267 of the does that would be seen during the above tabulated censuses were non-productive yearlings. { i.e. $\frac{(73)(.5)}{100 + (73)(.5)} = .267$ } Therefore 0.733 of the does seen above would be called adults for the purpose of the census and the Fawn:Adult doe ratio would be $\frac{101.8}{0.733}$ or 138.9.

	1980	1981	1982	1983	
Fawn:Adult doe	142.1	114.8	99.9	138.9	Based on standard censuses only (report figures will differ due to larger sample size)
Adult proportion of does	.72	.63	.82	.733	

These censuses conducted
by L. Skonier alone.

Summary of Standard Deer Censuses
Craters of the Moon National Monument, 1982

		8/18	8/30	8/31	9/1	day 9/2	night 9/2	Mean $\bar{x}$	Std Error St	Change from Previous Year	
Adult Males	#	6	0	9	5	10	0	5.0	(1.75)	-12%	n.s.
	Ratio	35	0	90	28	50	0	33.8	(13.83)	+75%	n.s.
Yearling Males	#	2	0	6	0	4	3	2.5	(.96)	-73%	n.s.
	Ratio	12	0	60	0	20	14	17.7	(9.07)	-75%	n.s.
Females	#	17	12	10	18	20	22	16.5	(1.89)	-46%	*
	Ratio	100	100	100	100	100	100	100	—	—	
Fawns	#	13	16	15	23	18	27	18.7	(2.17)	-13%	n.s.
	Ratio	77	133	150	128	90	123	116.9	(11.30)	+61%	n.s.
Unknown	#	0	0	0	0	0	0	0	—	—	
Total	#	38	28	40	46	52	52	42.7	(3.78)	-38%	*
Total $\pm .835$ error		45.5	33.5	47.9	55.9	62.28	62.28	51.14			

$$ST = 4.53$$

$$2,571$$

$$51.1 \pm 11.65$$

$$32.45 - 62.75$$

SUMMARY OF STANDARD DEER CENSUSES
CRATERS OF THE MOON NATIONAL MONUMENT, 1981

		<u>8/13</u>	<u>8/14</u>	<u>8/16</u>	<u>8/20</u>	<u>9/1</u>	<u>9/3</u>				
								Mean	Standard Error	Change From Previous Year	
Adult Males	#	8	5	4	1	3	13	5.7	(1.74)	+ 14%	n.s.*
	Ratio	18	21	18	3	11	45	19.3	(5.78)	- 11%	n.s.
Yearling Males	#	16	7	11	4	6	11	9.2	(1.78)	+ 96%	n.s.
	Ratio	36	29	50	11	22	38	31.0	(5.54)	+ 55%	n.s.
Females	#	44	24	22	36	27	29	30.3	(3.37)	+ 20%	n.s.
	Ratio	100	100	100	100	100	100	100	-	-	-
Fawns	#	30	24	19	22	19	15	21.5	(2.11)	- 17%	n.s.
	Ratio	68	100	86	61	70	52	72.8	(7.11)	- 29%	n.s.
Unknown	#	1	0	0	0	0	11	2.0	-	-	-
Total	#	98	60	56	63	55	79	68.5	(6.88)	+ 10%	n.s.

*n.s.: Not statistically significant at the 95% confidence level.

$$\begin{aligned}
 A\delta \# & 5.7 \pm 2.571 (1.74) = 5.7 \pm 4.47 = 1.23 \text{ to } 10.17 \\
 R & 19.3 \pm 2.571 (5.78) = 19.3 \pm 14.86 = 4.44 \text{ to } 34.16 \\
 Y\delta \# & 9.2 \pm 2.571 (1.78) = 9.2 \pm 4.58 = 4.62 \text{ to } 13.78 \\
 R & 31.0 \pm 2.571 (5.54) = 31.0 \pm 14.24 = 16.76 \text{ to } 45.24 \\
 A\# & 30.3 \pm 2.571 (3.37) = 30.3 \pm 8.66 = 21.64 \text{ to } 38.96 \\
 F & 21.5 \pm 2.571 (2.11) = 21.5 \pm 5.43 = 16.07 \text{ to } 26.93 \\
 R & 72.8 \pm 2.571 (7.11) = 72.8 \pm 18.28 = 54.52 \text{ to } 91.08 \\
 U & - \\
 T \# & 68.5 \pm 2.571 (6.88) = 68.5 \pm 17.69 = 50.81 \text{ to } 86.19
 \end{aligned}$$

SUMMARY OF STANDARD DEER CENSUSES
CRATERS OF THE MOON NATIONAL MONUMENT, 1980

		<u>8/3</u>	<u>8/28</u>	<u>9/1</u>	<u>9/27</u>	<u>9/30</u>	<u>10/8</u>	<u>Mean</u>	<u>Standard Error</u>
Adult Males	#	3	2	7	6	8	4	5.0	(0.97)
	Ratio	8	8	35	29	38	13	21.8	(5.62)
Yearling Males	#	3	3	5	5	7	5	4.7	(0.61)
	Ratio	8	13	25	24	33	17	20.0	(3.71)
Females	#	36	24	20	21	21	30	25.3	(2.60)
	Ratio	100	100	100	100	100	100	100	-
Fawns	#	39	26	17	19	28	27	26.0	(3.18)
	Ratio	108	108	85	90	133	90	102.3	(7.32)
Unknown	#	3	3	1	0	0	0	2.7	(0.76)
Total	#	84	58	50	51	64	66	62.2	(5.11)

$AM \# \quad 5.0 \pm 2.571 (0.97) = 5.0 \pm 2.49 = 2.51 \text{ to } 7.49 \checkmark$
 $R \quad 21.8 \pm 2.571 (5.62) = 21.8 \pm 14.45 = 7.35 \text{ to } 36.25 \checkmark$
 $YM \# \quad 4.7 \pm 2.571 (0.61) = 4.7 \pm 1.57 = 3.13 \text{ to } 6.27 \checkmark$
 $R \quad 20.0 \pm 2.571 (3.71) = 20.0 \pm 9.54 = 10.46 \text{ to } 29.54 \checkmark$
 $FF \# \quad 25.3 \pm 2.571 (2.60) = 25.3 \pm 6.69 = 18.61 \text{ to } 31.99 \checkmark$
 $- \quad -$
 $F \# \quad 26.0 \pm 2.571 (3.18) = 26.0 \pm 8.18 = 17.82 \text{ to } 34.18 \checkmark$
 $R \quad 102.3 \pm 2.571 (7.32) = 102.3 \pm 18.82 = 83.48 \text{ to } 121.12 \checkmark$
 $U \quad - \quad -$
 $T \# \quad 62.2 \pm 2.571 (5.11) = 62.2 \pm 13.14 = 49.06 \text{ to } 75.34 \checkmark$
 $- 16 -$

overlaps
with 1981 data