

STATUS REPORT ON MOUNTAIN LIONS IN ARIZONA

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Abstract: The following data are provided as a summary of mountain lion harvest trends and techniques employed in Arizona from 1951-1999.

Table 1. Summary of mountain lion harvest, Arizona Game & Fish Department¹

Year	Tags Issued	Sport ²	Depredation ³	Other ⁴	Total Harvest
1951	-	-	181	0	181
1952	-	-	198	0	198
1953	-	-	200	0	200
1954	-	-	201	0	201
1955	-	-	230	0	230
1956	-	-	189	0	189
1957	-	-	266	0	266
1958	-	-	264	0	264
1959	-	-	243	0	243
1960	-	-	215	0	215
1961	-	-	242	0	242
1962	-	-	231	0	231
1963	-	-	197	0	197
1964	-	-	267	0	267
1965	-	-	286	0	286
1966	-	-	257	0	257
1967	-	-	257	0	257
1968	-	-	226	0	226
1969	-	-	217	0	217
1970	-	-	278	0	278
1971	3835	172	0	0	172
1972	4214	120	48	0	168
1973	4917	190	15	0	205
1974	4896	172	22	0	194
1975	5460	219	19	1	239
1976	6261	238	14	0	252
1977	7498	248	4	0	252
1978	7964	229	12	0	241
1979	7938	283	7	0	290
1980	7799	204	2	0	206
1981	7871	191	9	1	201
1982	8069	316	8	1	325
1983	7004	221	7	1	229
1984	6876	184	9	0	193
1985	7523	246	19	7	272
1986	7936	191	25	0	216

Table 1. (continued).

Year	Tags Issued	Sport ²	Depredation ³	Other ⁴	Total Harvest
1987	8304	205	31	5	241
1988	8495	183	24	1	208
1989	3656	130	65	1	196
1990	3046	188	40	1	229
1991	3038	179	25	1	205
1992	3177	201	28	5	234
1993	3407	188	38	12	238
1994	4156	215	35	6	256
1995	4859	234	31	1	266
1996	5552	225	38	2	265
1997	5657	267	47	3	317
1998	6590	289	52	1	342
1999	6885	246	47	2	295

¹Data from Indian Reservations are included through 1987 and excluded thereafter.

²Estimated from a mail questionnaire from 1971-1987 and from mandatory check-outs from 1988-present.

³As reported by Arizona Livestock Sanitary Board through June 30, 1970, and reported stock-killers since 1971.

⁴Includes known kills other than sport or depredation (e.g., highway mortality, capture mortality, and illegal take).

Table 2. Mountain lion harvest information, Arizona Game & Fish Department.

1951 to 1999*

Variable	Mean	Minimum	Maximum	Std. Dev	Std. Error
Total Harvest	236.6	168	341	39.5	5.6

1971 to 1999*

Variable	Mean	Minimum	Maximum	Std. Dev	Std. Error
Tags Issued	5961.5	3038	8495	1838.8	341.5
Sport Harvest	212.9	120	316	43.9	8.2
Depredation	24.9	0	65	17.0	3.2
Total Harvest	239.5	168	341	44.2	8.2

Table 2. (continued).**1989 to 1999***

Variable	Mean	Minimum	Maximum	Std. Dev	Std. Error
Tags Issued	4547.5	3038	6885	1436.4	433.1
Sport Harvest	214.7	130	289	44.5	13.4
Depredation	40.5	25	65	11.6	3.5
Total Harvest	258.4	196	341	45.1	13.6

- * 1951-1970 All harvest data was obtained from bounty records.
 1971-1999 Depredation harvest data obtained from mandatory reporting.
 1971-1988 Purchase of a mountain lion tag required (\$1.00).
 1971-1988 Sport harvest data obtained from mail surveys.
 1989-1999 Purchase of a mountain lion tag required (\$11.00).
 1989-1999 Sport harvest data obtained from mandatory checkout.

Table 3. Arizona mountain lion harvest data by method, 1995-2000.

Method	1995			1996			1997			1998			1999			2000		
	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U
Calling Only	8	2	0	12	4	0	10	2	0	13	6	1	16	5	0	12	5	0
Dogs/Calling				0	1	0												
Dogs Only	50	97	3	45	86	0	84	98	0	74	117	1	66	93	1	58	51	1
Dogs/Stalking												0	1	0				
Glassing Only	4	0	0	1	2	0	4	0	0	1	2	0	4	0	0	0	1	0
Hunt Deer	10	5	1	5	4	0	8	3	0	15	4	0	11	4	0	8	1	0
Hunt Elk				1	0	0				1	0	0	0	2	0	1	0	0
Hunt Javelina	3	0	0	1	0	0	1	0	0	1	0	0				1	0	0
Other	12	8	1	10	6	0	6	3	0	9	2	0	8	3	0	7	0	0
Other Game				1	0	0	1	0	0				1	1	0			
Stalking/ Glassing	1	0	0	1	1	0	1	0	0				0	1	0	2	1	0
Still Hunting							0	1	0				1	0	0	2	1	0
Stalking Only	11	5	0	17	7	0	11	19	0	15	15	1	8	12	0	6	2	0
Stand Hunting							1	1	0									
Trapping							1	0	0									
Unknown	4	9	0	12	8	0	6	7	1	7	4	0	5	4	0	3	1	1
TOTAL	103	126	5	106	119	0	134	134	1	136	136	3	121	125	1	100	63	2
TOTAL		234			225			269			275			247				165
Illegal Kill										0	1	0	1	1	0			
Not Sport Kill	0	0	1	1	1	0	0	0	3									
GRAND TOTAL	103	126	6	107	120	0	134	134	4	136	137	3	122	126	1	100	63	2
GRAND TOTAL		235			227			272			276			249				165

(as of 11/19/2000)