

Appendix 1. Documented Puma Deaths in San Diego County, CA, 1981-2003. [page 1 of 6]

Mort No.	Year	Mo	Day	Sex	Age	Age / Weight Comments	Death Type	UTM E (N27)	UTM N (N27)	Inside CRSP	General Location	Comments
1	1981			M	adult		Depredation	521646	3618669	No	Angel Mountain, Mesa Grande	
2	1982			M	adult		Depredation	521646	3618669	No	Angel Mountain, Mesa Grande	
3	1986			F	cub	6-8 mo	Road Kill	524683	3618669	No	Lyons Valley Rd	
4	1986			M	subadult	1.5-2 yr	Road Kill	533742	3682010	No	Hwy 79 Warner Springs	
5	1986			F	subadult	1.5-2 yr	Road Kill	533742	3682010	No	Hwy 79 Warner Springs	
6	1986	11		M	adult	147 lb	Road Kill	547959	3625608	No	I-8 Buckman Springs	
7	1987			M	adult		Depredation	463000	3685000	No	Camp Pendelton; unk exact location	UTMs are genl guess
8	1987			F	adult		Depredation	463000	3685000	No	Camp Pendelton, unk exact location	UTMs are genl guess
9	1987	8	17	F	subadult	1.5-2 yr	Public Safety	538852	3648294	Yes	Scout Camp, CRSP	confirmed bubonic plague; puma emaciated
10	1988			M	adult		Depredation			No	Fallbrook	
11	1988	3	8	M	adult	154 lb	Depredation	539930	3632412	No	Guatay	
12	1988	5	10	M	adult		Road Kill	486310	3682708	No	I-15 past Lawrence Welk's Resort	
13	1988	6	25	M	subadult	80 lb, 2 yr?	Public Safety	540747	3642822	Yes	Off Hwy 79 near HQ, brothers	A female puma died of plague 6/9/88 E of Green Valley Falls; may have been mother of the 2 public safety males.
14	1988	6	25	M	subadult	63 lb, 2 yr?	Public Safety	540747	3642822	Yes	Off Hwy 79 near HQ, brothers	see above
15	1988	6	30	F	adult	80 lb, 2-3 yr	Depredation	557712	3630304	No	Thing Valley	
16	1988	10	8	F	adult	80 lb, 2-3 yr	Public Safety	547042	3637108	?	Noble Cyn.	deer hunter called lion in
17	1988	12	15	M	adult	148 lb	Depredation	520187	3630078	No	Mesa Grande	
18	1988	12	29	M	subadult	85 lb, 2-3 yr?	Trapper	543069	3630078	No	Corte Madera	
19	1989			M	adult	old	Depredation	539002	3631961	No	Guatay	
20	1990	7		?	adult?		Road Kill			No	Found in dumpster, San Diego	
21	1990	9		F	adult		Road Kill	529547	3606915	No	Hwy 94 btwn Dilzura & Potrero	
22	1990	10		M	adult	110 lb	Road Kill	521568	3657545	No	Old Julian Hwy	
23	1991	7	8	F	adult	70 lb	Depredation	520124	3627778	No	Loveland Reservoir	
24	1991	8	30	M	adult		Depredation	523145	3671165	No	Lake Henshaw, Mesa Grande area	genl UTM; killed 2 goats
25	1991	8		?	cub	40 lb	Found Dead	518388	3630857	No	SW Alpine	genl UTM.
26	1991	9		?	cub	8 lb	Road Kill	542604	3658987	No	Hwy 78, Banner Store	
27	1991	10		M	adult	150 lb	Depredation	541496	3626264	No	Corte Madera Ranch	killed pony

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28	1991	11		F	adult		Depredation			No	Fallbrook	
29	1991	?		M	cub	40 lb	Public Safety	508312	3622748	No	Singhing Hill Golf Course	really sick
30	1992	1	12	M	adult		Depredation	501675	3663096	No	Wild Animal Park	killing exotic birds
31	1992	2	29	M	adult	113 lb	Public Safety	464779	3673329	No	Oceanside	P. Beier collared animal
32	1992	2		F	adult	88 lb	Road Kill	527203	3672825	No	Hwy 79 @ Hwy 76	
33	1992	3	1	F	adult	92 lb	Road Kill	487325	3699492	No	I-15 San Diego off B. P. Ckpt.	RB records = 78 lb
34	1992	4		M	adult		Found Shot	489670	3643942	No	I-15 Mercy Offramp	
35	1992	12	23	M	adult	106 lb	Road Kill	487325	3699492	No	I-15 N. of B.P. Ckpt.	
36	1992	12	26	F	adult	73 lb	Road Kill	487325	3699492	No	I-15, 0.5 mi N. of B.P. Ckpt.	
37	1993	1	25	F	adult	100 lb	Depredation	480178	3698046	No	Tenaja Ranch, N. of Fallbrook, near Co. line.	genl UTM; RB records =80 lb
38	1993	2	4	M	adult	116 lb	Depredation	480178	3698046	No	Tenaja Ranch, N. of Fallbrook, near Co. line.	genl UTM
39	1993	2	4	M	subadult	88 lb	Depredation	480178	3698046	No	Tenaja Ranch, N. of Fallbrook, near Co. line.	genl UTM
40	1993	9	18	F	subadult	41 lb, underwght.	Public Safety	538889	3646621	Yes	CRSP, Paso Picacho - cub?	RB records = 58 lb
41	1994	1	7	M	subadult	64 lb, 1.5-2 yr?	Depredation	536236	3641402	No	Sherilton Valley	actually a cub?
42	1994	1	14	F	adult	85 lb	Road Kill	509991	3620879	No	Hwy 94, Jamul	
43	1994	5	9	F	adult	83 lb	Public Safety	538580	3646780	Yes	Azalea Glen near Milk Ranch Rd, CRSP	
44	1994	5	9	M	adult	107 lb	Depredation	535322	3635214	No	Descanso	killed goat; RB records=126 lb
45	1994	9	6	M	adult	140 lb	Depredation			No	Mesa Grande	eating dogs; RB records=132 lb
46	1994	10	2	F	adult	70 lb	Public Safety	538560	3642740	Yes	W. Mesa area trail, CRSP	
47	1994	10	25	?	adult		Found Dead	540147	3623308	No	S. end Corte Madera Ranch	few bones found
48	1994	12	7	F	adult	70 lb	Road Kill	542492	3631222	No	I-8 E of Pine Valley Bridge	
49	1994	12	10	M	adult	120 lb	Public Safety	536940	3645660	Yes	CRSP, Cuyamaca Pk.	
50	1995	1	30	M	adult	150 lb	Depredation			No	Knight Ranch, Tenaja	RB records 12/30/94, 138 lb.
51	1995	2	4	M	adult	159 lb	Depredation	539249	3632677	No	Guatay	350 lb llama; cat 7'9". RB records=147 lb.
52	1995	2	21	M	adult	136 lb	Road Kill			No	Camp Pendelton	old, no teeth
53	1995	7	16	M	subadult	60 lb	Public Safety	551521	3638695	No	Laguna Mtns	pulling on garden hose
54	1995	11	23	M	adult	106 lb	Depredation	538183	3632561	No	Guatay	killed 3 goats
55	1995	12	12	M	subadult	74 lb	Road Kill			No	Camp Pendelton	
56	1996	1	11	M	subadult	75 lb, 2 yr?	Road Kill	505109	3622197	No	Hwy 94 & Jamacha, Spring Valley	RB records=84 lb.
57	1996	1	16	M	subadult	60 lb, 7-9 mo?	Public Safety	541340	3639160	Yes	E. Mesa, CRSP	

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58	1996	3	1	F	adult	70 lb, 2 yr.	Public Safety	521055	3634841	No	Peutz Valley Rd, Alpine	in tree, came down at person who shot cat
59	1996	8	6	F	cub	13.5 lb, 3-4 mo?	Road Kill	540491	3642432	Yes	Hwy 79 near Japacha FR, CRSP	
60	1996	8	8	F	adult	80 lb, 4 yr.	Depredation	507019	3649506	No	Oak Valley Rd, Ramona	16 sheep killed
61	1996	9	19	M	subadult	80 lb, 2 yr?	Depredation	524964	3674026	No	Lake Henshaw Area	killed goats
62	1996	9	25	?	?	hide only	Ill. hunter Kill	514822	3691708	No	Palomar Mtn	
62b	1996	12	25	M	cub	12 lb	Removed from wild				Pine Hills, Julian	Fractured femur, removed from wild and raised by Fund For animals; died in captivity.
63	1997	1	12	M	adult	135 lb, 4-5 yr	Depredation	565994	3609121	No	Boulevard	RB records=145 lb
64	1997	1	17	M	adult	115 lb, 4-5 yr	Depredation			No	Santa Ysabel	killed calf
65	1997	4	29	M	cub	50 lb	Public Safety	541567	3634794	No	Guatay	on porch, orphans?
66	1997	4	29	F	cub	40 lb	Public Safety	541567	3634794	No	Guatay	on porch, orphans?
67	1997	5	7	F	adult	70 lb, 2-4 yr	Road Kill	497857	3670584	No	Valley Center Grade	RB records = 82 lb
68	1997	9	5	F	adult	78 lb, 3-4 yr	Depredation	533794	3661769	No	Katarina Ranch, Wynola, 3 cubs and mother	killed foal
69	1997	9	5	M	cub	66 lb	Depredation	533794	3661769	No	Katarina Ranch, Wynola, 3 cubs and mother	killed foal
70	1997	9	5	M	cub	69 lb	Depredation	533794	3661769	No	Katarina Ranch, Wynola, 3 cubs and mother	killed foal
71	1997	9	5	F	cub	54 lb	Depredation	533794	3661769	No	Katarina Ranch, Wynola, 3 cubs and mother	killed foal
72	1997	10	8	M	adult	130 lb, 3-4 yr	Depredation	559362	3623496	No	Crestwood	killed goats
73	1997	10	27	M	cub	12 lb, 3 mo	Road Kill	527134	3672981	No	Hwy 79 @ MM27 (almost to Henshaw)	
74	1997	11	1	M	adult	120 lb	Found Dead	548372	3662540	No	E side S2, N of Sissors Xing, someone had buried	genl UTM
75	1998	7	11	M	adult	150 lb, 7-8 yr	Depredation	543920	3634775	No	Pine Valley	killed dogs
76	1998	8	11	M	subadult	50 lb	Road Kill	559347	3618511	No	Old Hwy 80, Crestwood	
77	1998	8	13	F	adult	65 lb	Road Kill	538142	3672469	No	S-2 near San Felipe Store	
78	1998	9	15	F	adult	85 lb, 3-4 yr	Depredation	534500	3656500	No	Pine Hills, Julian	Genl. Loc; killed goat
79	1998	10	8	M	cub	81 lb	Public Safety	540984	3647829	Yes	Los Vaqueros, CRSP, family group	
80	1998	10	8	F	adult	79 lb, 5-6 yr	Public Safety	540984	3647829	Yes	Los Vaqueros, CRSP, family group	
81	1998	10	9	M	cub	75 lb	Public Safety	540984	3647829	Yes	Los Vaqueros, CRSP, family group	

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82	1998	10	9	M	cub	82 lb	Public Safety	540984	3647829	Yes	Los Vaqueros, CRSP, family group	
83	1998	10	19	M	subadult	95 lb, 3 yr?	Road Kill	544336	3630898	No	I-8 Pine Valley	
84	1998	11	9	M	adult	125 lb, 3-4 yr	Depredation	541072	3636123	No	Samagatuma Valley	1 sheep, 2 goats killed
85	1999	3	11	M	adult	132 lb, 3-4 yr	Depredation	535089	3633227	No	Descanso, Arlie Hill	1-2 sheep
86	1999	4	30	M	adult	150 lb, 5-8 yr	Depredation			No	Puama Valley	killed dogs
87	1999	5	1	M	adult	100 lb, 3-4 yr	Road Kill			No	Vista, on Hwy close to town	
88	1999	6	10	F	adult	80 lb, 2-3 yr	Road Kill	557315	3611796	No	I-8, Jacumba	
89	1999	9	18	F	cub	15 lb, 3-4 mo	Road Kill	537972	3672727	No	S-2, MM10	
90	1999	11	8	?	cub	unknown	Road Kill	540449	3660029	No	Hwy 78, Banner Grade	upper 2 mi of grade, E of Whispering Pine Dr; found hair, body gone
91	1999	11	13	M	subadult	90 lb, 2 yr?	Road Kill	497857	3670584	No	Valley Center Road	
92	1999	12	8	F	cub	10 lb, 4-5 mo	Starvation	542500	3654600	No	Julian	E side Hwy 79 S of Harrison Park Turnoffl Winn Ranch Rd area, ~.75mi back.
93	2000	3	7	F	adult	90 lb	Depredation	545385	3644435	No	Lucky 5 Ranch	
	2000	3	28	F	adult	2-3 yr, 73 lb	Road Kill			No	Valley Ctr Rd (Hwy S6)	
94	2000	4	19	F	cub	30 lb, 5-6 mo	Road Kill			No	Julian	
95	2000	6	20	M	subadult?	100 lb, 3 yr?	Depredation	522222	3622619	No	Lawson Valley, brothers?	
96	2000	7	31	M	adult	139 lb, 3-4 yr	Depredation			No	Mesa Grande	ask J. Albee, WS for UTM
97	2000	10	5	M	subadult?	100 lb, 3 yr?	Depredation	522222	3622619	No	Lawson Valley, brothers?	
98	2000	10	6	M	subadult?	115 lb, 3 yr?	Depredation	522222	3622619	No	Lawson Valley, brothers?	
99	2000	10	23	M	cub	60 lb, 1 yr	Depredation			No	Slaughter House Cyn, San Vicente Res. Area	ask J. Albee, T. Cox
100	2000	10	24	M	cub	60 lb, 1 yr	Depredation			No	Slaughter House Cyn, San Vicente Res. Area	ask J. Albee, T. Cox
	2001	1	20	M	cub	9 mo, 58 lb	Road Kill				Hwy 78, mm24	
101	2001	1	22	M	adult (5-6 yr)	158 lb (meas by LS)	Depredation	533280	3661850	No	Wynola Rd.by Spencer School, Wynola	Tag weight = 165 lb. Killed 1 sheep. Sheep hair in stomach. Copious internal fat. Necropsy 9/13/02 by LS/JB/KL
102	2001	4	20	F	adult (3-4 yr)	listed as 80 lb (94 lb as meas by LS)	Public Safety			No	18279 Quail Dr, Pauma Valley-Palomar Mtn.	Seized by B. Bundesen. Apparently shot by ranch worker as watched him from bushes. Stomach full of deer hair, tissues. Left dentary broken; could not find bullet wound. Excellent body condition. Mammaries not developed. Necropsied 9/12/02 by LS/JB

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103	2001	6	21	M	subadult	91 lb	Road Kill	468858	3672785	No	Hwy 76 between Loretta St & Benet Rd., Oceanside	
104	2001	9	22	M	Adult (~4 yr)	141 lb (meas by LS), ~4 yr	Depredation	537500	3662500	No	1780 Wynola Rd, Wynola	killed 2 goats; Permittee: Jeff Smith, Issued by B. Bundesen, killed by J. Albee. Necropsied 1/29/02 by LS/KL/JB
105	2001	9	27	F	adult	82 lb, 7+ yr	Depredation	535079	3633227	No	Los Terrenitos - Descanso, Arlie Hill	killed 2 of 3 sheep in fenced (4' tall, falling down fence) enclosure with open shed ~25m from house; designated F4. Necropsied 9/27/01.
106	2001	10	13	M3	cub	88 lb, 12 mo	Depredation	535516	3635033	No	Descanso	Radio-collared son of F4 above. Killed 2 goats, 3 geese in 3 separate incidents after became orphaned. Necropsied 10/15/01.
107	2001						hunter				Vallecito Mtns	unconfirmed report of 2 lions killed by deer hunter in fall; reliable sources told B. Turner. Apparently 1st lion stalking and hunter shot it, then saw 2nd lion and shot it.
108	2001						Depredation				Julian	Shot & wounded by landowner when entered barn; suspect puma died but carcass not found.
109	2002	1	14	M	adult	2-3 yr, 128 lb (meas by LS)	Depredation			No	Santa Ysabel, Mesa Grande	killed sheep. Taken by Philip Cauzza. Necropsied 9/12/02 by LS/JB/KL
110	2002	1	17	F	adult	5-6 yr, 82 lb (meas by LS)	Depredation	535500	3655800	No	YMCA Camp Raintree, 2315 Frisius, Julian	killed 1 hobby sheep. Cub killed first, then mother. Permittee: J. C. Mayfield. Permit issued by E. Elliot. Both pumas necropsied 8/28/02 by LS/JB.
111	2002	1	15	M	cub	4-5 mo, 20 lb (meas by LS)	Depredation	535500	3655800	No	YMCA Camp Raintree, 2315 Frisius, Julian	Mother & cub killed 1 hobby sheep. Cub ~4-5 mo old. Q88Permittee: J. C. Mayfield.
112	2002	4	21	M	adult	121 lb (w/o head, meas by LS)	Depredation	520000	3673000	No	Santa Ysabel-Mesa Grande (Angel Mtn. Rd.)	Killed 14 goats in 6' tall chain-link pen. Permittee: M. Barron, issued by E. Elliot. Necropsy 8/29/02 by LS/JB. Head missing.
113	2002	5	26	M	subadult	16-18 mo, 100 lb (meas by LS)	Public Safety				Camp Pendleton	in garage, given drug overdose. Stomach empty; fat deposits indicated in good health. Necropsied 8/28/02 by LS/JB
114	2002	6	12	M2	adult	~39 mo, 118 lb (meas by LS)	Road Kill	537776	3631463	No	18 E of Descanso exit	Killed ~1730 as crossed rd from N to S; 1st collared 3/01 in CRSP. Necropsied 6/13/02 by LS.
115	2002	9	28	F	adult	4-5 yr, 92 lb (meas by LS)	Road Kill	497199	3673002	No	Valley Center Rd	Necropsied 9/30/02; empty stomach, mammary tissue developed but not producing milk.

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116							Road Kill			No		Road kill picked up by private citizen & skinned. Confis. By B. Turner, CDF&G. Hide examined by LS, KL; suspect young F
117	2002						Depredation				Jamul	No information obtained.
118	2003	1	21	M9	Adult	4 yr, 140 lb (meas by LS)	Depredation	533687	3655884	No	Eagle Peak Road, Julian	First collared in CRSP 4/17/02. Shot by landowner as left property. Killed 2 free-range Q101chickens.
119	2003			M	Adult	3-4 yr, 140 lb (meas by JB)	Depredation	537875	3683075	No	Eagle's Nest, E of Warner Springs	Attacked rottweiler in garage; puma had broken left fibula and tibia from previous gunshot. Entry wound completely healed, but leg break was severe. Puma had excellent body fat, stomach was empty.
120	2003	5	22	F	Unk		Depredation			No	E of Ramona	Killed dog; CDFG notified next morning
121	2003				3-6 mo old Cub		Road Kill			No		Killed on Buckman Spr Rd. Carcass stored in Scout Camp freezer awaiting necropsy, but freezer destroyed in Cedar Fire 10/03.
122	2003	8	12	M16	Adult	4 yrs; 100 lb (meas by JB)	Depredation	543930	3631292	No	28-855 Oak Lane, Pine Valley	Killed 2 pygmy goats ~25m from house in 6' high mesh panel fencing with open-faced shed. Permittee: April Castellanos/Dan Gonzales. Sent to CVDLS for necropsy.
123	2003	10?		M	Adult	Poor condition	Depredation			No		No details. Killed in Mesa Grande. Deposited in SD freezer by CDF&G Warden E. Elliott.

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Appendix 2: Puma morphology from capture or mortality records.

Puma No.	Sex	Capture date	Mean Age (mo)	Weight (kg)	Total Length	Tail Length	Neck Circ	Head Lngth	Head Width	Thoracic Girth	Shoulder Hght	Rt FP Lngth	Rt FP Wdth	Rt HP Lngth	Rt HP Wdth	Rt HFoot Lngth	Rt U Canine	Rt L Canine	Cement. Ridge
01	M	03/08/01	48	63.6	184.0	73.0	42.0	28.0	16.1	79.0	61.0	5.6	6.8	5.1	5.6	29.0	3.0	2.6	x
01	M	11/07/01	55	65.0	x	x	42.0	x	x	x	x	x	x	x	x	x	x	x	x
01	M	01/08/03	70	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
02	M	03/28/01	30	49.1	215.0	78.0	38.0	28.0	14.0	75.0	55.0	5.0	5.7	4.6	5.2	28.5	2.9	2.4	0
02	M	11/17/01	37	55.9	x	x	38.0	x	x	x	x	4.7	5.6	4.4	5.1	x	x	x	x
03	M	07/14/01	9	26.4	171.0	62.0	31.0	21.5	11.2	57.0	42.0	4.2	5.2	4.0	4.7	25.5	1.9	1.2	x
03*	M	10/13/01	12	40.0	180.0	72.3	35.0	24.0	11.0	73.0	51.0	4.4	5.4	4.8	4.7	26		x	x
04*	F	09/27/01	84	37.3	188.0	73.7	34.3	24.8	13.0	68.6	x	4.8	5.1	4.6	4.5	26	1.45	1.8	
05	M	11/12/01	12	40.0	191.5	68.0	36.0	x	x	63.0	x	x	5.8	x	5.6	16.5	x	x	x
05	M	12/20/01	13	32.7	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
05	M	11/04/02	24	43.6	210.0	71.0	37.0	x	x	x72	x	5.1	5.7	4.4	4.7	28	2.7	broke	0.1
06	M	12/20/01	13	34.5	202.0	76.0	33.0	24.5	13.2	66.0	50.0	4.5	5.5	4.5	5.1	30	2.6	2.2	0
06	M	11/10/03	36	44	x	x	38.0	x	x	x	x	x	x	x	4.9	x	x	x	x
07	F	01/16/02	102	32.3	196.0	69.0	35.0	23.4	13.8	63.0	52.0	4.1	5.1	4.2	4.9	x	2	1.5	0.5
07	F	11/29/02	112	36.8	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0.4
08	F	03/08/02	24	42.7	200.0	73.0	36.0	25.0	14.0	71.0	54.0	4.5	5.2	4.5	4.8	28.5	2.4	2	0
08	F	01/09/03	34	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
09	M	04/23/02	36	x	216.0	72.0	47.0	28.0	15.8	85.0	58.0	5.2	6.0	4.8	5.3	29	2.7	2.3	0.15
09	M	09/17/02	41	61.8	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
09	M	1/10/03	45	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
09*	M	01/21/03	45	63.6	214.5	72.5	44.0	28.5	15.5	86.0	57.0	5.1	5.8	4.8	5.1	28	2.8	2.3	x
10	M	04/17/02	24	58.2	214.0	76.0	47.0	27.5	15.6	78.0	58.0	4.7	5.3	4.5	4.7	30.5	2.8	2.4	0
10	M	04/30/02	24	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
10	M	04/13/03	36	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
13	F	10/28/02	112	35.4	207.0	76.0	33.0	24.0	13.0	63.0	55.0	4.0	5.2	3.8	4.4	26.5	1.2	1.4	0.7
14	F	02/03/03	65	36.4	201.0	76.0	33.0	25.5	12.9	67.0	51.0	4.4	5.0	4.5	4.7	26	2.3	1.8	0.4
15	F	02/07/03	26	41.4	200.0	75.0	35.0	25.9	13.0	65.0	56.0	4.2	5.1	4.1	4.5	27.9	2.4	2.1	0.1
15	F	03/20/03	28	41.8	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
16	M	03/04/03	42	61.8	x	x	42.0	x	x	x	x	x	x	x	x	x	x	x	x
17	M	03/23/03	66	50.9	210.0	82.0	42.0	27.5	15.1	76.0	59.0	5.4	5.1	4.4	5	30	2.9	2.3	0.4
18	F	08/15/03	17	28.5	194.0	65.5	32.0	24.0	12.0	63.0	43.0	4.6	5.2	3.9	4.6	27	2.4	2.0	0
19	F	10/15/03	42	43.0	203.0	74.0	37.5	26.0	13.5	69.0	43.0	4.3	4.5	4.1	4.3	27	2.3	1.8	0.3
21	F	02/28/03	19	29.5	179.0	67.0	33.0	x	x	63.0	x	3.9	4.3	3.4	4.1	x	x	x	0

* Indicates data obtained at necropsy. Length measurements are in cm.

Date _____; Time _____ a.m. / p.m.; Category: sighting ___; encounter ___; incident ___; attack ___.

Sighting Location: INSIDE CRSP ___; OUTSIDE CRSP ____.
campground ___; picnic area ___; parking lot ___; trail ___; housing ___; road ___; undeveloped ___; other _____.
Exact location: _____
UTM (ExN) = _____; GPS ___ or Topo ___ and Datum Year _____.

Observer 1

Name _____; age _____; phone no. (_____) _____
Address _____, _____ (city), _____ (state)

Other witnesses:

Name: _____; phone no. _____
Name: _____; phone no. _____

Description of animal: Adult ___; Subadult ___; Cub ___; Not spec or unk ____.
Color _____; Spots?: yes ___ or no ___; Length (nose to tail tip) = _____
Tail length = _____; Height at shoulder = _____
Other identifying features: _____

Visitor Activity:

camping ___; hiking ___; biking ___; equestrian ___; photography ___; driving ___; other _____.
Number in group: adults- _____; children- _____; Pets _____.
Distance from puma _____.

Visitor Response to Puma:

remained still ___; quietly left area ___; backed away ___; ran away ___; picked up children ___; talked ___;
made loud noises ___; looked bigger ___; threw objects ___; struck with objects ___; approached ___;
other _____.

Puma Activity (when first observed):

passing through ___; sitting ___; standing ___; resting ___; feeding ___; investigating ___; hunting ___;
following ___; stalking ___; other _____.

Puma Response (to humans):

ignored people ___; flight ___; walked away ___; watched ___; stood ground ___; crouched ___; followed ___;
approached ___; laid ears back ___; growled ___; bared teeth ___; charged/chased ___; attacked ___;
other, describe _____.

Report reliability: not puma ___; investigated, no evidence, questionable ___; not investigated,
questionable ___; investigated, no evidence, witness credible/knowledgeable ___; not investigated, witness
credible/knowledgeable ___; investigated & verified puma ___; how? _____

Follow-up by Park:

None ___; Investigation ___; Closure ___; Puma Removal ___. Explain: _____.

If removed, description of animal: Sex- ___; Weight _____ lb.; Approx. Age _____;
Condition _____.

Detailed report of occurrence (continue on back if necessary):

Report taken by: _____

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Appendix 4. Puma observations reported by CRSP visitors, 2001-2003. All were classified as simple sightings. [page 1 of 4]

Annual Sight No.	Date	Time (DST)	Period of Day	Category	Location	UTM E (N27)	UTM N (N27)	No. People	Obs. Activity	Obs Response	No. Pumas	Puma Class	Puma Activity & Response	Contact Name	Verific.	Verif. Code	Comments
01-001	2/3/2001	15:00	2	1	Meadow off Milk Ranch Rd	537000	3647600	2A	horseback	approached, watched	1	5	walking edge of meadow, turned and moved away into woods	Linda Lee, Wynola	investigated by KL; bobcat investigated by KL/LS; no sign found but witness credible	0	L. Lee approached on horse to 50 yds. Thought 40-50 lbs but unsure. Next date K Logan investigated and found bobcat trx in snow where L. Lee said lion had been. No other trx.
01-002	3/1/2001	12:45	2	1	G.V. CG, Sweetwater Loop, near dumpster	539290	3640900	1A	driving		1	5	walking across rd heading to creek, scurried to brush when saw truck	Shirley Jones, maintenance 765-1069	investigated by KL/LS; no sign found but witness credible	5	2-3' long, 1-2' tall, light brn, tail ~12"
01-003	4/28/2001	18:15	3	1	Just past lookout on way to Cuyamaca Pk	536930	3645540	2A,1 Dog	hiking	turned and walked back down trail	1	5	sitting on top of large boulder, stared at people	Nicole White, Oceanside (760)631-8340	not investigated; unk credibility	3	No collar; 3-4' high, 6-7' long, didn't see tail
01-004	4/29/2001	8:00	1	1	Hwy 79 MM9.5-10	539400	3647000	2A	driving		1	5	crouched, approaching 4 deer, then ran away	John Love, LaMesa (619)483-1742	not investigated; unk credibility	3	2' tail, 5-6' long, yellowish color. Obs from ~150 yds
01-005	5/1/2001	10:30	2	1	Camp Wolahi behind Ranger's office	538200	3650100	1A,2C	loading into car	got into car after cat disappeared	1	5	moving behind office	Cheryl Gore 765-0710	not investigated; no historical record of black puma	2	Chocolate or black color, saw back half, size of medium dog, long tail. Saw from ~55'.
01-006	5/10/2001	22:35	4	1	Shop entrance, Paso Picacho, from Hwy	539360	3646530	2A	driving	stopped car	1	5	walked ahead of car, turned left into driveway and left again at fence, heading toward Stonewall Pk.	Michele Green 765-3778	not investigated; witness credible	5	Saw back half, 7-8' long, tan color
01-007	5/13/2001	9:00	2	1	Paso Day use lot before Paso Nature Tr	539360	3646950	1A	driving	stopped car	1	5	sitting by bushes, looked at stopped vehicle then walked into bushes	Shirley Jones, maintenance 765-1069	KL&LS investigated, no trx but witness credible	4	Phone account said cat was small, but written acct says cat was 5-6' long and adult.
01-008	5/26/2001	18:15	3	1	Stonewall Pk, ~40' from top	540060	3646820	1AM	repelling	continued activity	1	5	walking by bottom of rocky area	Matt McCord 760-945-4236	not invest., unk credibility	3	16 yr old. Puma tan, tail not seen, height 2-3'
01-009	5/28/2001	12:00	2	1	West Mesa Tr between intersectn Burnt Pine & Arroyo Seco	538850	3643440	2A	hiking	froze	1	2	Appeared surprised, looked at people and froze. People turned away second, when looked back, cat was gone.	Michael Gardner, Spring Valley 619-460-?	LS invest, no trx but credible	4	Est. 50-60 lb (size of female golden retriever), spots on face and forehead, could not see tail, dark tan to light brown, rounded ears. L. Sweanor & C. Lydon hiked area 2 days later; no trx found, but lots of squirrel activity in area.
01-010	5/30/2001	9:15	1	1	In meadow just before bridge as go into park HQ, ~75 yds from roadway.	541070	3643320	2A (M&F)	driving	stopped car, got out with binocs and hiked toward puma	1	5	sitting on haunches at edge of meadow and trees, stood up, walked from open to bushes, began moving faster (slink) as people approached.	Gregg Parker & Janice Smith, School Camp, Cuyamaca 765-3000	Not invest, unk credibility	3	Gregg thinks possible subadult or small female. Golden color, Janice saw black tips on ears. Didn't walk like bobcat, have spotting or noticeably short tail. Possible same cat as sighted yesterday by Jeff Crosswaith at 15:30 from Cuyamaca School Camp (no other data available). Also seen a little later in day by Stacy Prater at HQ?Hwy 79 intersection with her group.
01-011	6/9/2001	15:45	2	1	At sign to Upper Green Valley Falls	539130	3640160	1AM	hiking	quietly left area	1	1	sitting, not mentioned if responded to hiker	Gerald Ennis, San Marcos 760-471-0384	Not invest. Unk credibility	3	2-3' tall, tail 2'. Saw puma on big rock. Hiker turned and hiked down trail while looking back to see if it was following.
01-012	7/26/2001	11:15	2	1	Green Valley FR above School Camp	541500	3643060	1AM	biking	slowed bike, then pedalled quickly by	1	2	ran across trail	Rob Mackay, EC,CA (619)660-1544	invest by LS/KL, coyote & bobcat trx found	1	Long tail, 4-5 ft long. Biker was traveling S toward School Camp on fire rd when something darted across trail just ahead from under tree. The saw "lion" ahead in slow trot going away from him. Hit brakes, cat stopped, turned as though startled. Then ran off.
01-013	8/1/2001	11:45	2	1	Azalea Glen Tr	538700	3646720	2A,2C	hiking	stopped to watch briefly then continued on trail, making noises	1	3	Cat on trail ~50 yds ahead, stopped. People stopped and talked during which time lion crossed trail and disappeared. People made noise and continued up trail. Cat 2-3 ft long.	Marc Bellaart (Paso Site#30) San Diego 619-582-7431	not invest., unk credibility	3	People made noise and continued up trail. Cat 2-3 ft long (very short for a lion), no tail length mentioned.
01-014	8/11/2001	16:10	3	1	1/8mi up Cold Stream Tr from HQ	541150	3643470	1AF	hiking	saw lion from back then turned around	1	1	Cat on main trail ahead of hiker. Lion didn't see hiker, was heading away from her. Lion seemed passive.	Greta Goforth (760)815-6265	Not invest, unk credibility	3	Cat described as skinny, tan, spotted tail w/ black tip resting between legs (2.5-3ft). Greta was cautious of seeing a lion and kept searching ground for cat droppings.
01-015	8/15/2001	21:45	4	1	Paso Picacho #7	539300	3646440	2A,3C	camping	saw cat from tent and yelled	1	5	Heard scratching noises; later animal on stomach moving to campfire. Shouts caused animal to bolt.	Charles & Kimberly Horn, Oceanside (760)385-0398	Invest by park and KL. Fox trx found.	1	Tan w/ white under belly, face dark brown around nose w/white and tan outer face. 1-2ft tall. Charles saw animal on stomach moving to campfire. When he shouted, animal turned & ran to bushes. Raccoon at another site same night; stole eggs.
01-016	8/16/2001	11:00	2	1	Campfire Site, Green Valley Campground	539120	3640800	2A	hiking	quietly walked away	1	5	walking off trail to Sweetwater crossing, jumped on log, swished tail	Not recorded, elderly couple	Invest by KL&LS 1630 same date. No trx found	4	Before sighting, woman had been fretting about man going to far ahead during hike; told him she was fearful of being attacked by a lion.
01-017	8/29/2001	23:40	4	1	Green Valley CS#26	538900	3640860	1A	camping	standing by fire, remained still	1	2	passing through	Frank Gormlie, San Diego (619)224-9462	Invest by JB 8/31; no trx found but hard-packed	4	Lt brown, 5-6 ft long w/2ft+ tail, 2-3 ft tall.
01-018	9/3/2001	13:45	2	1	3/4 mi up Cold Spr Tr	541010	3645300	1AM	hiking	froze	1	1	jump from shrub and run away, did not turn	Andrew Woodruff (619)447-7654	Not invest, credible description	5	Tan, 4-5ft long, 2.5 ft tail, 2-3ft tall.

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Appendix 4. Puma observations reported by CRSP visitors, 2001-2003. All were classified as simple sightings. [page 2 of 4]

Annual Sight No.	Date	Time (DST)	Period of Day	Category	Location	UTM E (N27)	UTM N (N27)	No. People	Obs. Activity	Obs Response	No. Pumas	Puma Class	Puma Activity & Response	Contact Name	Verific.	Verif. Code	Comments
01-019	9/20/2001	0:00	4	1	MM#8, Hwy 79	539580	3645420	1AF	driving	drove on through	1	5	running Nbound in Sbound lane. When car ~20ft away lion ran up west embankment and disappeared.	Mary Augustin, Julian (760)765-2880	Not invest, unk credibility	3	Tan, great dane sized. Seen by 1st 15mph sign in S turns.
01-020	9/22/2001	23:10	4	1	Lower Green Valley Parking lot	538020	3640250	1AF	driving	remained still	1	1	turned and ran, jumped over fence	Shane (760)765-1582	Invest by LS, no trx but hard-packed	4.5	50 ft from vehicle. Adult female 75-80 lb, golden, 5-6 ft long, well-muscled, tail puffed up. Note GV campgrnd closed weekdays as of 9/16.
01-021	10/12/2001	12:50	2	1	Lookout FR, ~10 min before top Cuyamaca Pk.	536900	3645500	2A	hiking	froze, talked to wife who was a ways behind him; both watched cat; later walked on.	1	3	lying on log. When man called to wife, jumped from log & slowly walked up mtn away from them.	John Garcia, 949 Knowles Ave 760-729-8235; 70 yrs old	Not invest, unk credibility	3	Dark brown, ~1-2 ft tall, 2-3 ft long, tail 12" (short tail for lion, even a cub, and no mention of spots). Lion researchers have frequently been seeing a bobcat off this road.
01-022	10/15/2001	15:00	2	1	La Cima-Rattlesnake Valley area, on old fire rd	544300	3644920	1AM	hiking	stopped, walking down road, saw hiker, stopped then ran off road to cover. When Andrew turned back briefly, cat crossed road to other side. Never saw puma again.	1	5	troting w/head turned back looking at truck. Puma immediately crossed road and disappeared in chaparral.	Andrew Woodruff (619)447-7654	Not invest, credible description	5	unusual gray color. Saw from ~40m.
01-023	10/24/2001	7:10	1	1	South Boundary FR	539380	3639480	1AM	driving	remained still	1	1	standing at edge of cahparral, turned and jumped into chaparral as biker approached	Jim Bauer, Borrego Spr (760)767-4331	Verified w/trx	6	Tan, 30" tail, 22" tall, hind plantar pad 52-54mm wide. Closest distance 20m.
01-024	10/28/2001	10:30	2	1	Soapstone Grade FR	541900	3647580	1AM	biking	continued activity	1	5	standing at edge of cahparral, turned and jumped into chaparral as biker approached	Harvey McClendon (760)789-1332	KL investigated and found trx 50mm hind heel width	6	Gray, long tail. Was 15m from puma when it ran off. Companion bikers (2) were 5 min behind and didn't see cat.
01-025	10/30/2001	5:15	1	1	near HQ heading S	540860	3643040	1AF	driving	drove on through	1	5	heading south.	Sally Stillson (619)498-7476	Not invest, unk credibility	3	Not much info
01-026	11/4/2001	15:30	2	1	South Boundary FR at Sweetwater Crossing	537960	3639700	1AF	driving	unk	1	5	middle of Fire Road	George Gribbous (858)488-5688	Not invest, credible because puma crew finding activity in area	5	not much info.
02-001	1/4/2002	11:00	2	1	W side Tr & Sweetwater Crossing	539839	3641339	1A	hiking	Walked away	1	2	stared from 100 ft, then sprinted off. Saw 2 cats ~1 hr apart	John Darrah, 560 L St., Chula Vista 619-420-2458	unverified, credibility unkn. Reported 5 days later	3	2 sightings: 1 at 11:00, 2nd at 12:00.
02-002	1/4/2002	12:00	2	1	West Mesa & CA Riding & Hiking	537800	3643029	1A	hiking	Walked away	1	1	sprinted away to ~100 ft, looked back, then walked off	John Darrah, 560 L St., Chula Vista 619-420-2458	unverified, credibility unkn. Reported 5 days later	3	2 sightings: 1 at 11:00, 2nd at 12:00.
02-003	2/8/2002	16:30	3	1	below jctn to Stonewall Cr FR on Upper Green Valley FR	541812	3644253	1A	biking	froze, held bike over head	1	1	Surprised cat from 50 yds; cat froze, stared ~5 min; cat finally turned and went into riverbed	Daniel Struiksma, 25276 Kerri Ln., Ramona 760-789-4675	unverified, description good, close obs.	5	Dusk, coming down Stonewall to Green Valley on bike, thinks came between lion stalking of 4 deer on other side of road, near prominent snag.
02-004	2/22/2002	13:40	2	1	Upper Falls picnic area	539126	3640254	1A	driving	watched	1	1	Animal was walking down trail from upper falls. Camper in #64.	Paul Whitcomb, 1832.5 Helix St., 619-698-9248	unverified, only saw back half of animal for quick moment	2.5	Pulled into upper falls lot and saw back end of animal going down trail to upper falls. Felt sure it was either a lion or large dog with long tail. Arrived at campsite 12:45 and Richard accidentally touched car horn. Saw lion walking to NE from CS26. He looked rather matted and slow/ disappeared around rocks. (note, LS & KL have never seen a "matted" lion; coyote perhaps?)
02-005	4/22/2002	13:00	2	1	Green Valley behind CS26	538913	3640781	2A	camping	froze	1	1	walked away	Richard Royce, 1792 Bacon St., SD 619-222-0078	unverified, description questionable	2	Hiker saw 2 deer on edge of meadow and stopped to watch. Saw lion sitting under tree also watching deer. Distance 40'. Lion turned head to hiker; hiker backed off and left area. Not aggressive.
02-006	5/1/2002	14:30	2	1	Between parking at Paso and Azalea Glen Tr	539044	3646811	1A	hiking	backed off	1	1	sitting, watching deer. Turned head to person.	Ernest Climensor, 2516 Camino De las Palmas, Lemon Grove 619-460-2047	unverified, didn't see tail	3	Hiker saw 2 deer on edge of meadow and stopped to watch. Saw lion sitting under tree also watching deer. Distance 40'. Lion turned head to hiker; hiker backed off and left area. Not aggressive.
02-007	5/2/2002	9:20	1	1	10 min up Stonewall Peak	539791	3647042	>1AF	hiking	froze, shouted	1	1	ran away	Valerie Ross, 11776 Calle Deposito 619-660-8046	unverified, not close enough to see features	2.5	Female w/ unknown no. companions saw lion running away from them up trail. Lasted ~5 seconds.
02-008	5/4/2002	10:30	2	1	Milk Ranch Rd just above Scout Camp	538789	3648326	1A	hiking	slowed down, froze	1	1	stood in road looking at hiker. After 20 sec took off into cover.	Dave Mosen 619-422-6659	unverified, seen from ~50 yards	3	Walking on Milk Ranch Road. Animal was walking ahead of hiker. Came around bend and saw cat in road looking at hiker. Cat then took off.
02-009	5/22/2002	10:25	2	1	Hwy. 79 N. of Green Valley CG	539520	3641020	1A	driving	continued driving	1	2	Puma walked across road W to E ~50' in front of car (car moving ~40mph & traveling S)	Lloyd Billotte 858-451-6272, P.O. Box 270213	unverified, questionable	2	Described as 2-3' tall, 3-4' long, tan, tail 15-18" w/ black rings. Thinks could have been bobcat, "but he was tan color & I believe bobcats to be gray or black."
02-010	6/2/2002	8:50	1	1	1/4-1/3 way up Stonewall Pk.	539714	3646847	2A	hiking	continued walking	1	5	ran away	Robert & Jo Conger, Park Ridge, NJ	unverified, didn't see well	2	May have had spots.

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Appendix 4. Puma observations reported by CRSP visitors, 2001-2003. All were classified as simple sightings. [page 3 of 4]

Annual Sight No.	Date	Time (DST)	Period of Day	Category	Location	UTM E (N27)	UTM N (N27)	No. People	Obs. Activity	Obs Response	No. Pumas	Puma Class	Puma Activity & Response	Contact Name	Verific.	Verif. Code	Comments
02-011	6/6/2002	17:00	3	1	0.3 mi coming back from Airplane Monument	538905	3641859	1A	jogging	froze	1	5	walked away	Nat Weiss, 4944 Naragansett #8, SD 619-501-7103	unverified	3	Saw cat & froze. Cat mozed down trail and didn't see jogger. Jogger picked up some rocks and stick and waited 2 min., Walked slowly down path and saw cat again 0.5 mi later. Exact same thing happened.
02-012	6/29/2002	16:00	3	1	1/4 mi onto Black Oak Tr from Middle PK FR	537080	3649300	2A	horseback	kept riding	1	1	looked briefly while walking on its way	Judy Johnson, 1315 Pepper Dr #10, El Cajon (619)440-2918	not investigated, witness credible	5	Full side view, couldn't see eyes or ears. Cat heading downhill. Seen from 100 yds? First thought coyote, then saw extremely long tail.
02-013	7/2/2002	9:20	1	1	Nature trail, Paso Picacho	539250	3646985	2A	hiking	turned back	1	5	not aware of people, growled and pursued deer	Doug & Janet Baker 2203 Puesta del Sol (760)747-4551	investigated, no evidence, witness credible	4	Stopped by nature sign of 3 peaks, heard growl & crashing in brush ~100 yds further down trail. Saw deer take off thru woods followed by another animal. Growl again. Both animals went inland (away from Hwy 79). Could not see pursuing animal because brush too tall. Only saw enough to know animal was tan. L Sweanor & S Potts investigated ~1 hr later; found plentiful deer trx, no lion trx, but much of area covered with leaf litter. No collared lions in vicinity at time.
02-014	7/7/2002	13:55	2	1	Group Camp B, Paso Picacho	539039	3647094	1A	cleaning restrooms	called on radio. Stopped	1	5	moving through trees & up over rocks ~10 yds from Lisa. At a fast walk and didn't make eye contact w/ Lisa. No collar.	Lisa York, CRSP (760)765-3020	not investigated (except rangers did drive to site), witness credible	5	Lisa walking across parking lot after cleaning restrooms when heard squirrel alarm call. Saw lion moving thru trees ~10 yds away. Lion was at fast walk, no eye contact. Appeared female or juvenile. Contacted supervisors via radio for instructions. Rangers responded. No further visuals.
02-015	7/8/2002	9:10	1	1	3/4 mi S. on Cold Stream Tr from Paso	539839	3645703	2A	hiking	woman stopped, man came back on trail to see if puma. Banged rocks together. Turned back	1	5	Apparently walking parallel for ~20 yds, sat upright in "defensive" posture.	Michael & Juanita Cravens, 716 N. Pacific St., Apt. A (760)721-8511	not investigated, unk. Reliability	3	Heading S. on trail when heard footsteps of hikers off trail. Juanita saw lion walking parallel with them ~20 yards. She stopped, saw lion and called to Michael who went back to try to confirm cat. Couldn't get clear view due to trees & brush - could see lion sitting upright in defensive posture. Picked up 2 rocks & banged them together. They then proceeded back. Heard scuffle of brush & that was it.
02-016	7/21/2002	14:40	2	1	1/8 mi past 1st leg of Azalea Glen Tr	538860	3647080	>1A	hiking	talked, rapped sticks on trees, walked away keeping eye on cat	1	2?	cat passed across trail going W ~100-120' ahead of people. Cat then sat ~40' off trail by log, looking at hikers. Cat watched as people walked by.	Lisa Hunter, 3452 Copley, SD, CA 619-584-3560	not investigated; questionable	2	People heading S when saw cat 1st time. Made noises with sticks on trees to encourage cat to keep going. Continued hiking, then saw cat sitting. No aggressive behavior. Lighting bad, but 1-2' tall, 2-3' long, tan didn't notice a tail, ~65-70 lb, tufty ears?? LS suspects bobcat.
02-017	7/28/2002	23:50	4	1	Hwy. 79 100-200' N of Superintendent's driveway	539320	3647680	3A	driving	kept driving	1	1 or 2	Puma seen on W side of Hwy 79; puma facing uphill, paused then ran uphill, going W.	Molly Burke, 12551 Hwy. 79, Descanso, CA 760-765-4822	not investigated, witness credible	5	Cat 4-5' long, tail 2', height 2-3', tan. Unable to see if had collar. Happened very fast. Two others in car: Carlos & Andy Martinez 765-0179.
02-018	8/11/2002	16:00	3	1	Green Valley CG, site #18	539280	3640890	1A	hiking	Walked away	1	1	Puma ~50' in front of person on S side of trail. It turned around and walked away from person.	Don Joyner, 9180 Manor Dr., La Mesa, CA 619-480-1844	investigated, unk. Reliability	4	Cat 2-3' tall, 4-5' long, tail 3.5-4' long, dark brown. J. Bauer investigated site 7 talked w/ D. Joyner on 8/12. Couldn't find trx, but tracking cond were poor.
02-019	8/17/2002	12:00	2	1	Lookout FR, 3/4 mi from top	536970	3645650	>1A	hiking	turned around and walked away	1	1	Saw puma ~80 yards away walking thru meadow; didn't believe it saw people.	Carol Prince, 6330 W. 84th St. 310-670-0027	not investigated; unk reliability	3	Cat 3-4' tall, 7-8' long, tan.
02-020	11/3/2002	15:30	2	1	Engineer's Rd., across from Kelly Ditch FR	537140	3651500	1A	jogging	stopped when saw puma, then turned around and left area	1	1	Puma was walking ahead of jogger ~30-40 yds. Cat stopped but didn't turn (jogger thinks cat sensed his presence).	Greg Cilli, 34374 Engineer's Rd., Julian, CA 760-765-1716	investigated (thru GPS locations) & ~verified puma F8	6	Reddish pelage, big, long tail. Puma F8 was known to be in area during time of sighting. Cat was seen near fire road to entrance to Heise Park Couldn't see collar from behind.
02-021	11/17/2002	13:50	2	1	Paso Group Camp, ~150' N of gate	539180	3646940	>1A	hiking	Watched it walk away down road	1	3?	Small puma walking down road toward campground.	John Culbertson, 32555 Corte Zaragoza, Temecula 909-303-2145	not investigated; questionable	2	2-3' long, 2-3' tall, tail to ground?, dark brown, spotted. Note, F8 & cubs were not in area when & where sighting occurred.
03-001	2/8/2003	1:00	4	1	Paso Picacho CS#65	539048	3646548	2A	exited tent to see campfire	U	1	1	Passing through, took flight	Hartwell, age 42, 82 Calle Conejo, Alpine, CA 445-7205	Not investigated, questionable	2	Campers had been sitting around campfire, went to tent. Later came out to see fire and that's when saw puma. Described as tan, very long. No other details.
03-002	2/22/2003	14:45	2	1	inside CRSP, trail; no other details	U	U	2A	hiking	quietly left area	1	1	Standing, looked at hikers; no other details	Kim Valvonic? & Steve (619)884-3141	Not investigated, questionable	2	No details given. No description of where they were or what puma looked like except to check "adult" box.
03-003	3/3/2003	18:45	3	1	S side of trail from Azalea Glen Fire Rd, 1500 ft from CS62A, Paso Picacho	538645	3646314	1A	hiking	blew whistle, held up trekking poles & whistled	1	U	Only saw animal's eyes. Based on this, animal ignored people, then turned away.	Karen Pankey; 619-296-3983; kpankey@simplyweb.net	Not investigated, questionable	2	Saw eyes on ground ~1500 ft from 62A S side off trail from Azalea Glen FR to campground. Blew whistle, animal didn't respond, held up trekking poles & whistled, animal turned away. Didn't see animal, but size and spacing of eyes gave her impression that it was big. Reported to Don B. camphost at 62A.
03-004	3/21/2003	22:45	4	1	W side of dining hall, 6th grade camp, (school camp).	541282	3643312	4A	standing, talking	remained still	1	2	Puma was passing thru, saw people and walked away.	Laura Noell, Escondido, CA; 24 yrs old; work:760-737-3990; others= C. Bullard, M. Brook	Not investigated; witness unknown credibility	3-4	Listed as adult, but observer reported spots, 4' long animal w 2' tail, 2' high at shoulder, tail lighter brown than body. Group of 4 people standing & talking in front of school camp chow hall. Saw lion walkout from behind W side of building into light. Lion glanced at them & then walked W up into hillside. People saw lion for ~5-10 seconds from 30'. If was a lion and had spots, likely a cub or subadult. However, may be hard to see spots on subadult.

Appendix 4. Puma observations reported by CRSP visitors, 2001-2003. All were classified as simple sightings. [page 4 of 4]

Annual Sight No.	Date	Time (DST)	Period of Day	Category	Location	UTM E (N27)	UTM N (N27)	No. People	Obs. Activity	Obs Response	No. Pumas	Puma Class	Puma Activity & Response	Contact Name	Verific.	Verif. Code	Comments
03-005	4/4/2003	1:30	4	1	Hwy 79, CRSP in bend just S of HQ	540807	3642862	1A	driving	stopped vehicle at 20m away & watched	1	1	Puma traveled W-bound sauntering. Went up on knoll 20m from where witness stopped. Two watched each other ~3 sec. Then puma turned & vanished in cover. Puma crossed rd just S of HQ	Derek Miller, 17240 Iron Spr Rd, Julian, CA 760-765-9799; Policeman	Not investigated; witness credible	4	Puma crossed rd just S of HQ. Description= tan, no spots, long tail, 2.5' 3' high at shoulder, no collar, ~80 lb.
03-006	4/19/2003	16:00	3	1	Junction Japacha FR & West Side Tr.	539922	3641629	2A	hiking	remained still then quietly left area	1	1	passing through, sat briefly, continued walking up fire road.	Ray Scholten; age 60 yr; El Cajon, CA 619-440-7862	Not investigated, unknown credibility	3	Descr: medium brown, no spots, 5' long; tail 18-24", height 18-24". Distance = 80 yards. At junction of FR & trail saw what appeared to be large cat about size of cougar. It looked at observer then continued up fire road. Second witness (wife Mary) saw paw print only.
03-007	5/9/2003	8:00	1	1	Trail to Stonewall grade 1 mile from ranger station.	542270	3644900	1A	running	froze, walked away, talked	1	1	ran away	Gred Shorey; 1336 Santa Olivia Rd; 619-397-6885	Not investigated; unkn credibility	3-4	Descr: 2-3' at shoulder, 6-7" long; light brown color, no tail description. Observer was running along trail when ~50' in front of him on right a cougar leaped across road to left and into bushes. Observer stopped, talked loud, then slowly walked away for min or 2 then jogged back to rangers station.
03-008	5/18/2003	11:50	2	1	W Mesa FR 3/4 mi W of Hwy 79	540048	3643506	1A	MAU	Not recorded	1	5	stared for awhile then left	Marcello Mastrocola; La Mesa CA 619-463-9333	Not investigated; unkn credibility	3	Descr: 1-2' tall at shoulder, 3-4' long, light brown, no tail observed (small, age est of cat not given). Observer spotted lion about 10'...(can't read this part)...into the forest and left. Reported to ranger P. Valenta.
03-009	5/20/2003	20:30	4	1	30' inside gate at Los Vaqueros, on road	540421	3649016	1A	driving	stopped vehicle, threw object (piece of pie), backed up and drove away	1	1	puma was resting on road, ignored car, watched, remained there	Cori AcQuavella, age 50, Riverside, CA 909-509-2763	not investigated, credible	4	Puma laying on road ~30' from gate. Cori drove in and saw puma, stopped vehicle, threw piece of pie outside window toward puma. Puma looked at her and continued to lay on road. Cori backed up and drove away, came back 15min later and puma was gone. Descr: dark beige, adult, 2-3' tail (no other description).
03-010	5/22/2003	6:45	1	1	200-300' N of Arroyo Seco Tr & W Mesa Trail on W Mesa Trail	537781	3643176	1A	hiking, photography	remained still, made loud noises, took photo	1A, 2K	4	mother leading cubs; cubs ran downhill away, mother froze and growled once, stared for 7-8 sec, looked toward cubs, then moved off trail.	Jerry Hughes, 2810 Union St #14, San Diego, CA; age 52	photo of collared puma, verified	6	Hiking quietly along trail, spotted cats through large bush that hid trail. Thought animals were mule deer, so continued walking to poen. Two cubs had spotted him before mother because they ran off trail before he came into full view. Saw it was group of pumas. Jerry froze when spotted mother. Mother spotted person and also froze. Half-second later she let out low growl (no teeth). Both still frozen. He said in loud deep voice "Oh my god, I don't believe it." Then he repeated it but mother didn't move. Started to reach for camera, then instead reached for pepper spray & jackknife. Once out of pocket, mother glanced to left, then moved off trail. Got photo of her after that but at a distance. Can see collar in photo. Probably F8 & cubs.
03-011	8/5/2003	15:30	2	1	Near Paso Picacho, Azalea Loop	540033	3648562	1A	hiking	stopped an looked, went to pick up stick	1A	1	Puma was sitting in shade on trail near Paso Picacho. When hiker was 20 yards away, puma sat up and stared; it ran away when hiker went to pick up stick	Wayne Munchel, 319 N. La Reico? St. 719-826-2321	Not investigated, unknown credibility	3	Descr: 2-3' at shoulder, 4-5' long, tan color; length of tail with "?" in form. No other details.
03-012	8/20/2003	17:30	3	1	Stonewall Mine Rd, past Los Caballos CG ~400 yds	539070	3646796	2A	driving	stopped, exited car and watched for 5-10 min	1	2?	~100 yards from road in rocks, licking its body. First ignored people, then paced around in circle, then climbed on a rock	Leonor & Sebastio Dalto, 12702 Tanfield Dr., La Mirada, CA 562 790-7506	Not investigated; questionable	2	Described as 3' long, 2' tall, tail 1' long. Indicated "head shape" as an identifying feature, but didn't elaborate. Also circled subadult with "?"

Appendix 5. Radio-collared bighorn sheep mortalities (n = 24), 2001 - 2003.

Sex	Death Age (yr)	Bighorn ID	Date of Death	Cause of Death	Associated Puma	Location	UTME (NAD27)	UTMN (NAD27)	Elev (ft)
F	5	9170B	2/15/2001	Probable Puma	Unknown	Red & White Cyn, N Coyote Cyn	547000	3701500	3240
F	7	9380	9/17/2001	Probable Puma	Unknown	Hellhole Cyn	551183	3677354	2290
F	4	760A	10/14/2001	Non-predation, Cap Myopathy	none	Palm Wash Santa Rosa Mtns	584329	3685233	750
M	4	830A	11/2/2001	Capture Injury, Non-predation	none	Wonderstone Wash, Santa Rosa Mtns	583579	3690880	880
M	10+	9040A	12/1/2001	Probable Puma	F07 ^a	Tubb Cyn	554614	3674968	1288
F	13-14	210	12/1/2001	Probable Puma	Unknown	Mine Wash, Vallecito Mtns	561098	3662210	2232
F	5	310A	12/19/2001	Puma	F07 ^a	Dry Cyn	553558	3676073	2047
F	6	9470A	2/5/2002	Puma	F07 ^a	SE Pinyon Ridge	558654	3667062	1605
F	8+	9360A	2/23/2002	Birthing	none	Henderson Cyn	551764	3687623	2612
F	10+	9560B	4/1/2002	Unknown	Not Determined	Coyote Cyn	555075	3697780	2366
F	7.5	9245C	4/13/2002	Possible Puma	Unknown	E of Lower Box Cyn	554650	3693506	1720
M	10	9010A	4/15/2002	Puma	M05&M06	Between HHF & lower BPC	551494	3681378	4240
F	12-16	9870B	4/25/2002	Puma	M05	Borrogo Palm Cyn	551325	3683020	2160
F	8-10	9190B	5/19/2002	Puma	M05	Carrizo Cyn	573895	3623262	1760
F	6	9230A	6/29/2002	Puma	M05	Blue Spr, Vallecito Mtns	561873	3658929	2780
M	6	9660B	8/28/2002	Puma	Unknown	Box Cyn	551646	3698809	3200
M	4	840A	12/3/2002	Unknown	Not Determined	S Santa Rosa Mtns, upper Arroyo Salada	581224	3685772	2200
F	9+	9350A	12/24/2002	Puma	F07 ^b	S side Dry Cyn	554409	3675691	1723
M	9	9020A	12/25/2002	Puma	M06	E side Indian Head Pk	554510	3682488	1417
M	9-12	850A	3/18/2003	Unknown	N/A	S. Santa Rosa Mtns SW of Rabbit Pk	565650	3696870	1800
F	9	9180C	11/4/2003	Puma	Unknown	Carrizo Canyon (Cimarron)	572394	3622555	2400
F	11+	9100B	11/9/2003	Possible Puma	Unknown	Carrizo Canyon (Carrizo Palms)	575302	3626868	1520
M	11+	9030A	11/9/2003	Puma	M06	S. San Ysidros (Pinyon Ridge)	558139	3670132	1800
F	8	9140B	12/1/2003	Unknown	N/A	Carrizo Gorge	574469	3619024	3080

^a - indicates that F07 was raising her first documented litter.

^b - indicates that F07 was raising her second documented litter.

Appendix 6. Uncollared bighorn sheep mortalities (n = 21), 2001 - 2003. All were found at puma GPS clusters, unless otherwise indicated (*).

Sex	Death Age (yr)	Date of Death	Cause of Death	Associated Puma	Location	UTME (NAD27)	UTMN (NAD27)	Elev (ft)
M	10+	1/1/2001	Drowned*	none	Stone Wash, Vallecito Mtns	578692	3654066	1243
M	0.75	2/11/2002	Puma	F07 ^a	Dry Cyn.	554730	3676314	1800
M	6	2/18/2002	Probable Puma	F07 ^a	Indianhead Pk	554340	3682595	1880
U	0.1	2/24/2002	Probable Puma	F07 ^a	Coyote Mtn	563363	3691017	2165
M	8	3/16/2002	Possible Puma	F07 ^a	1 km E of lower Indian Cyn, Coyote Cyn	550424	3691438	1720
M	2	3/20/2002	Possible Puma	F07 ^a	3 km E of Indian Cyn, Coyote Cyn	551475	3689720	2160
F	6	4/3/2002	Possible Puma	F07 ^a	SE Pinyon Ridge	555290	3667990	2040
M	1.2	4/18/2002	Puma	F07 ^a	S Coyote Cyn	552092	3688678	3281
M	3	6/12/2002	Probable Puma	F07	Salvador Cyn	546432	3695958	2120
M	7-8	12/11/2002	Probable Puma	M05	Sweeny Cyn, Jacumba Mtns	576118	3632237	1200
M	6-8	12/24/2002	Probable Puma	M05	NE of Mt Tule, In-Ko-Pah Mtns	574414	3619249	3050
U	1	1/8/2003	Probable Puma	F07 ^b	S Pinyon Ridge	558790	3667490	2231
U	1	1/19/2003	Probable Puma	F07 ^b	NE Pinyon Ridge	558351	3670191	1706
U	1	1/30/2003	Probable Puma	M05	Pinyon Ridge	557818	3669438	2750
U	1	2/8/2003	Probable Puma	M05	Pinyon Ridge	555857	3668674	2600
U	1	2/11/2003	Probable Puma	M05	Pinyon Ridge	555854	3668712	2680
U	1	3/6/2003	Probable Puma	M05	SE end Buck Ridge, Santa Rosa Mtns	557983	3699824	3780
U	1	1/30/2003	Probable Puma	M05	Pinyon Ridge	557818	3669438	2750
M	2	~7/2003	Possible Puma*	Unknown	Carrizo Canyon (Cimarron)	572817	3623617	1686
F	3-4	8/20/2003	Rectal prolapse/septicemia*	none	Borrego Palm Canyon	552915	3682297	1220
M	1.5	9/14/2003	Disease (bluetongue?)*	none	Hellhole Canyon	552528	3677624	1560

^a - indicates that F07 was raising her first documented litter.

^b - indicates that F07 was raising her second documented litter.

Appendix 7. Radio-collared mule deer mortalities (n = 36), 2001- 2003.

Deer ID	Sex	Capture Date	Est. Death Date	Est. Age (yrs)	Cause of Death	Notable Condition	Location
03-0220	M	2/24/01	6/9/01	2	Probable Puma	Antlers – velvet, about to fork	Grapevine Cyn.
04-0510	F	2/24/01	11/28/02	7	Probable Puma (female & cubs)	All soft tissue and majority of bones consumed	Bitter Creek Cyn.
06-0560	F	2/24/01	1/14/03	9+	Puma	Femur marrow pink, gelatinous; tooth necrosis of lower molar	Grapevine Cyn.
08-0620	F	2/24/01	11/12/01	2	Non-puma	All flesh eaten; skull and front limbs not found	San Felipe Hills
09-0200	M	2/26/01	10/26/03	5-6	Hunter-killed	Not able to assess	San Felipe Hills
10-0502	F	2/26/01	4/15/02	5	Probable Puma (female)	Femur marrow red, jello consistency	San Felipe Hills
11-0180	M	2/26/01	11/18/01	3-4	Hunter-killed	Not able to assess	Volcan Mountain
12-0541	F	2/26/01	5/25/02	6	Probable Puma	Not able to assess	San Felipe Valley
14-0250	M	2/27/01	10/27/01	3-4	Probable Puma	Had small antler rack; all flesh consumed	San Ysidro Mtns.
15-0611	F	2/27/01	11/9/01	4	Puma	Not able to assess	Pinyon Ridge
18-0533	F	2/28/01	5/25/01	5-6	Probable Puma	Pregnant; hide of spotted fawn at cache	San Felipe Hills
19-0601	F	2/28/01	11/23/01	7+	Non-puma	Infected left rear metatarsal; other hooves splayed unnaturally.	San Felipe Hills
23-0711	F	11/12/01	7/6/02	4	Poached?	No carcass; collar found buried in dirt	Culp Valley
24-0450	M	11/12/01	11/27/01	6.5	Rut Injury	Puncture between ribs 8 & 9 on left side; punctured left lung.	Upper Culp Valley
25-0460	M	11/12/01	12/29/02	4-5	Puma (F07)	Femur marrow blood red, gelatinous; spike antlers	Tubb Cyn.
26-0660	F	11/12/01	3/21/02	2	Road Kill	Pelvis crushed	Hwy S22, Culp Valley
27-0650	F	11/12/01	10/2/02	7	Non-predator	Not able to assess	Culp Valley
28-0701	F	11/12/01	11/13/02	4	Coyote Predation	Carcass totally consumed except for vertebral column and rib cage	Hellhole Cyn.
34-0731	F	11/14/01	9/27/02	5	Unknown	Not able to assess	Grapevine Cyn.
36-0748	F	11/14/01	6/21/03	7.5	Probable Puma (female)	Not able to assess	Upper Bitter Creek Cyn.
37-0670	F	11/15/01	10/30/03	5	Killed in Cedar Fire	Not able to assess	Cuyamaca Park
45-0790	F	11/15/01	12/21/03	7.5	Probable Puma (female + cubs)	Femur marrow semi-gelatinous and pink	Granite Spring
48-0950	F	11/15/01	6/26/02	8	Non-predator; Scavenged	Tooth necrosis; otherwise in good condition	Lake Cuyamaca

Appendix 7. Radio-collared mule deer mortalities (n = 36), 2001- 2003, continued.

Deer ID	Sex	Capture Date	Est. Death Date	Est. Age (yrs)	Cause of Death	Notable Condition	Location
49-0660B	F	4/18/02	4/24/02	2	Probable Puma (male)	Possible capture myopathy from being snared on 4/18; marrow red, gelatinous	Grapevine Cyn.
51-0682	F	11/6/02	5/10/03	6	Unknown	Not able to assess	Pinyon Ridge
53-0580	F	11/4/02	12/7/02	3.5	Unknown, Non-predator	Carcass untouched; no fat; femur marrow red, gelatinous	Pinyon Ridge
59-0530	F	11/5/02	1/10/03	1.5	Poached	No carcass found; radio-collar buried in dirt	Culp Valley
62-0440	F	11/5/02	11/7/03	4	Probable Puma	All soft tissue and majority of bones consumed	Hellhole Flats
63-0470	F	11/5/02	11/6/02	<2	Unknown, Scavenged by Puma	Died 1 day post-capture; possible capture myopathy	Dry Cyn.
64-0450	F	11/5/02	11/26/02	3	Puma (F07)	Femur marrow pinky, gelatinous; body condition score on 11/5 had been excellent	Dry Cyn.
67-0120	F	11/5/02	5/18/03	3.5	Unknown	Not able to assess	Hellhole Cyn.
68-0170	F	11/6/02	8/14/03	3.5	Puma (F18)	Enlarged udders; rt. front leg with enlarged knee joint and blunt hoof.	San Felipe Valley
70-0180	F	11/6/02	10/26/03	3.5	Road Kill	One hind and one front limb broken	San Felipe Valley, Hwy S2
74-0230	F	11/6/02	12/25/02	1.5	Probable Coyote	Not able to assess	Grapevine Cyn.
76-0140	F	11/6/02	11/18/02	4	Probable Puma	All soft tissue and majority of bones consumed; marrow pink, gelatinous	Bitter Creek Cyn.
78-0280	F	11/7/02	8/10/03	4.5	Road Kill	Scavenged by coyotes	San Felipe Valley, Hwy S2

Appendix 8. Uncollared mule deer killed or probably killed by pumas in the CRSP and ABDSP areas (n = 65), 2001-2003. Most (n = 60) were found at puma GPS location clusters.

Sex	Est. Age (mo)*	Date of Death	Associated Puma(s)	In CRSP	General Location
F	48	4/24/2002	F07	n	Culp Valley, ABDSP
F& 1f	84	6/17/2002	F07	n	Salvadore Cyn, with a 1-mo-old fawn
U	<18	12/7/2002	F07	n	Upper Culp Valley, ABDSP
U	12-24	12/13/2002	F07	n	Pinyon Ridge, ABDSP
U	12-18	1/8/2003	F07 & cub	n	S Pinyon Ridge, ABDSP
U	12-18	1/19/2003	F07 & cub	n	NE Pinyon Ridge, ABDSP
M	36	3/11/2002	F08	n	N North Pk
M	36-48	5/20/2002	F08	y	ESE of Japacha Pk
M	12	6/4/2002	F08	y	E of Scout Camp
F	24	6/8/2002	F08	n	W Julian Estates
U	<3	7/6/2002	F08	n	Heise Co Park-private
U	2-3	9/11/2002	F08	y	E Middle Pk
U	>12	9/18/2002	F08	n	top North Pk
U	3	9/25/2002	F08	y	NE of Trout Pond parking
U	3-4	10/18/2002	F08	y	N Stonewall Pk
M	48	10/19/2002	F08	y	ENE of Fern Flat Spr
M	18	11/8/2002	F08	n	E of Cosmit Pk
M	48	12/1/2002	F08	y	N of Engineer's Rd
U	<8	1/14/2003	F08	y	NE of Cuyamaca Woods
U	U	5/10/2003	F13 & UM	y	E Middle Pk, PF13 death site
U	>18	3/16/2003	F14	n	Agua Caliente Cr, CNF
U	>24	7/31/2003	F14	n	Rainbow Spr Los Coyotes IR
M	30	9/17/2003	F14	n	Hot Springs Mtn
M	Adult	10/6/2003	F14	n	Hot Springs Mtn
M	21	3/27/2003	F15	y	East Mesa
U	<18	4/4/2003	F15	y	Upper Descanso Cr
U	30	5/9/2003	F15	y	Cold Stream
U	24-36	5/16/2003	F15	y	W Mesa
U	<3	6/7/2003	F15	y	Harper Cr
U	<12	3/4/2003	F21	n	Indian Cr, CNF
U	>18	3/21/2003	F21	n	Agua Dulce Cr CNF
U	60-72	3/29/2003	F21	n	SW of Laguna Mt Lodge, CNF
U	30	5/13/2003	F21	n	Los Gatos Ravine Laguna Mtns, CNF
F	<18	9/6/2001	M01	y	NNE Middle Pk (VHF location cluster)
F	24	5/8/2002	M01	n	Iron Spr Cyn. CNF
U	U	11/6/2002	M01	y	Sweetwater Drainage
M	24	11/19/2002	M01	y	Below Kelly Ditch
U	120	12/4/2002	M01	n	S of Sill Hill Private-CNF
F	72-84	3/29/2003	M01	y	SE of Scout Camp CRSP
U	1	5/19/2002	M02	n	W of La Posta Rd CNF
M	48	7/14/2001	M03, F04	y	N end East Mesa
F	>24	7/29/2001	M03, F04	y	E of Oakzanita Peak
U	12	1/30/2003	M05	n	Pinyon Ridge, ABDSP
U	12	2/8/2003	M05	n	Pinyon Ridge, ABDSP
U	12	2/11/2003	M05	n	Pinyon Ridge, ABDSP
U	12	5/4/2002	M09	y	N of Engineer's Rd

* M = Male; F = Female; f = fawn; U=unknown; UM = Unmarked; y = yes; n = no

Appendix 8, continued. Uncollared mule deer killed or probably killed by pumas in the CRSP and ABDSP areas (n = 65), 2001-2003. Most (n = 60) were found at puma GPS location clusters.

Sex	Est. Age (mo)*	Date of Death	Associated Puma(s)	In CRSP	General Location
F	48	5/13/2002	M09	y	Azalea Cr N of Engineers Rd
U	<4	8/24/2002	M09	n	N of Pine Crest, W of Wolf Ctr freezer
U	<18	11/13/2002	M09	y	East Mesa
F	84	11/23/2002	M09	y	NE Middle Pk
U	60-72	12/31/2002	M09	y	SW of Dyar Spr
M	54	1/11/2003	M09	y	Fern Flat
F	102-114	10/11/2002	M10	n	Jim Green Cyn
F&2f	66	6/4/2003	M10	y	Cold Stream, with 2 fawns
U	>12	3/28/2003	M16	n	N of Horse Meadow, W of Thing Valley Rd
U	<3	7/4/2003	M16	n	Noble Cyn, Laguna Mtns, CNF
M	>24	5/22/2003	M17	n	Lost Valley Boy Scout Camp
M	30	9/16/2003	M17	n	Tule Cyn
U	6	10/9/2003	M17	n	Agua Caliente Cr, CNF
M	42	10/9/2003	M17	n	Agua Caliente Cr, CNF
M	96-120	1/2/2001	U	y	E of Scout Camp (scavenged)
M	72	2/14/2001	U	y	SE of Azalea Spring

* M = Male; F = Female; f = fawn; U=unknown; UM = Unmarked; y = yes; n = no