

Tables

- 1: Bighorn Sheep Populations in or Near Mojave National Preserve
- 2: Feral Burro Population Estimates
- 3: 1995 Average Daily Traffic Levels
- 4: 1999 2000 Traffic Count
- 5: Annual Visitation
- 6: Visitor Profile
- 7: VIsitor Activities
- 8: Northeastern San Bernardino County Buck Kill Data
- 9: Hunting Statistics for San Bernardino County
- 10: Bighorn Sheep Harvest
- 11: Grazing Allotments/Permits in and Adjacent to Mojave National Preserve
- 12: Grazing Permits and Perennial AUMs
- 13: Rights-of-Way
- 14: Cost Summary Table



Metapopulation*	Population	Population Status**	Population Size Class
Central Mojave	Old Dad/Kelso/Marl	Ν	201–300
	Granite	N	<25
	Providence	N	25–50
	Wood/Hackberry	N	51–100
	New York	N	<25
	Castle/Hart/Piute	N	<25
Central North Mojave	Clark	N	101–150
	Soda	E	0
Population Range			400–675

TABLE 1: BIGHORN SHEEP POPULATIONS IN OR NEAR MOJAVE NATIONAL PRESERVE

From, Torres et al. 1994, "Status of Bighorn Sheep in California, 1993, 1994 Desert Bighorn Council Transactions, pp. 17-28

* Metapopulation = Population management areas

**N = Native R = Reintroduced E = Extirpated

++ From T. Egan, pers. comm., 1997

TABLE 2: FERAL BURRO POPULATION ESTIMATES FOR MOJAVE NATIONAL PRESERVE

Fiscal Year	Population Estimate Beginning of F.Y. (Oct. 1)	Growth Rate (25%)	Removals	Population Estimate End of F.Y. (Sept. 30)	
		• •			
1997	1,650	+ 413	- 600	1,463	
1998	1,463	+ 366	- 520	1,309	
1999	1,309	+ 327	- 721	915	
2000	915	+ 229	- 513	631	
2001	631	+158	-459	330	

data as of 10/1/01

TABLE 3: 1995 AVERAGE DAILY TRAFFIC LEVELS

State Highway	Peak Hour*	Peak Month	Annual Average	
I-15, Cima Road interchange	4,200	32,000	29,000	
I-40, Kelbaker road interchange	1,200	12,400	11,000	

*Peak hour is the hour during which the heaviest volume of traffic occurs on a roadway.

TABLE 4: 1999 - 2000 TRAFFIC COUNT

Highway	Average Daily Traffic
Kelbaker Road, southbound off I-15	100
Cima Road southbound off I-15	76
Ivanpah Road, southbound off Nipton Road	174
Kelbaker Road, northbound off I-40	183
Essex Road, northbound off I-40	31
Ivanpah Road, northbound off Goffs Road	21

*mix of 1999 and 2000 data

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Year	Visitation
1985	60,000 (est.)
1993	250,000 (est.)
*May 1996 – Apr 1997	339,700
1997	378,977
1998	374,378
1999	391,694
2000	444,402

TABLE 5: ANNUAL VISITATION FOR MOJAVE NATIONAL PRESERVE

* Mojave NP traffic counters at six paved entrances began operating in May 1996.

TABLE 6: MOJAVE NATIONAL PRESERVE VISITOR PROFILE

Visitor Profile (1997 NPS Visitor Study)	Percentage/Age
First time visitors	46%
Repeat visitors	54%
International visitors	7%
Visitors from California	69%
Visitors from Nevada	12%
Average age	36-55 years
Stayed less than 1 day	61%
Stayed 3-4 days	29%
Stayed 7 or more days	4%
Of those who stayed less than a day, (stayed only 1 hour)	10%
Of those who stayed less than a day, (stayed 2–4 hours)	52%
Visited Kelso Depot	66%
Visited Kelso Dunes	57%
Visited Hole-in-the-Wall campground	35%
Visited Mid Hills campground	25%
Visited Mitchell Caverns	22%
Traveled on Wildhorse Canyon road	19%
Traveled on Mojave Road	16%
Visited Caruthers Canyon	8%
Visited Zzyzx	4%

TABLE 7: MOJAVE NATIONAL PRESERVE VISITOR ACTIVITIES

Visitor Activities (1997 NPS Visitor Study)	Participation levels
Auto-touring/sightseeing	61%
Nature study/hiking	49%
Offroad vehicle use	51%
Camping in developed campgrounds	22%
Day hike	41%
Visit ruins/historic sites	32%
Driving through only	28%
Dispersed camping	15%
Hunting*	Not available

*Hunting was not included in the initial survey but is a significant visitor activity during fall upland bird and deer hunts.

Year	Number of Tags Returned	Year	Number of Tags Returned
1988	29	1995	33
1989	29	1996	18
1990	26	1997	25
1991	28	1998	34
1992	38	1999	42
1993	43	2000	67
1994	36		

TABLE 8: NORTHEASTERN SAN BERNARDINO COUNTY BUCK KILL DATA.

Data from State of California Memoranda from Department of Fish and Game Desert Unit Manager to BLM, Needles (January 1991) and to Vern Bleich, CDF&G Eastern Units Supervisor (May 1996)

ANIMAL	1992	1993	1994	1995
Chukar	37,873	15,001	5,007	5,063
Gambel's Quail	25,187	26,314	5,984	15,813
Dove	77,799	45,459	49,461	50,463
Jackrabbit	31,455	48,070	28,089	14,103
Cottontail	25,410	27,889	14,044	7,627
Coyote	3,769	4,144	2,280	1,841
Bobcat	-	-	81	99

TABLE 9: HUNTING STATISTICS FOR SAN BERNARDINO COUNTY

From State of California memorandum, May 23, 1996

TABLE 10: BIGHORN SHEEP HARVEST

Year	Old Dad Unit	Clark Mountain Unit
1987	5	Not Open
1988	5	Not Open
1989	6	Not Open
1990	4	Not Open
1991	5	Not Open
1992	5	2
1993	4	2
1994	4	0
1995	3	0
1996	3	1
1997	3	1
1998	2	2
1999	3	1
2000	2	1

From personal communication with Vern Bleich, Eastern Units Supervisor, CDF&G

	Entire Allot	ment	Portion of A	Portion of Allotment in Mojave			
Grazing Allotment	Total Acreage	Total Perennial AUMs	Acreage in Mojave NP	Perennial AUMs (% of total)	Acres in Critical Habitat (%)	Range Condition***	
Colton Hills	190,391	2,877	190,391	2,877 (100%)	151,532 (80%)	Good	
Gold Valley	16,190	1,152	16,190	1,152 (100%)	1,407 (9%)	Good	
Round Valley	653	27	653	27 (100%)	0	Poor	
Clark Mountain	88,312	1,872	17,500	371 (20%)	0	Fair	
Valley View	281,802	8,485	268,000	8,069 (95%)	225,486 (84%)	Good	
Valley Wells	237,258	4,644	43,600	853 (18%)	8,000 (50%)	Fair	
Piute Valley*	33,468	0	14,700	0 (0%)	0	Fair	
Totals	848,074	19,057	551,034	13,349	386,425		

TABLE 11: GRAZING ALLOTMENTS/PERMITS IN AND ADJACENT TO MOJAVE NATIONAL PRESERVE

* = Ephemeral grazing only; no perennial authorization

** = An AUM is an animal unit month, defined as the amount of forage required by an adult cow and calf (or an equivalent combination of other animals) for one month (BLM, 1984).

*** = Evaluation of range conditions as determined by BLM prior to 1992.

TABLE 12: GRAZING PERMITS AND PERENNIAL AUMS

*as of April 2000

Permit Area	AUMs
Clark Mountain	371
Colton Hills	2,877
Gold Valley	1,152
Round Valley	27
Piute Valley*	0
Valley View	8,069
Valley Wells	853
TOTAL	13,349

*Piute Valley is an ephemeral permit only. There is no perennial authorization.

TABLE 13: RIGHTS-OF-WAY

Right-of-Way/Easement

AT&T

Southern California Edison* Southern California Gas Co.* Cal-Nev Molycorp* Pacific Bell U.S. Sprint Union Pacific

Kaiser Resources Southern California Gas Co. Cal Trans U.S. Geological Survey

Purpose

Underground communications cable Electric transmission line, aerial Natural Gas pipeline Oil pipeline Waste water pipeline Communication site Telephone line Railroad Water pipeline Communication site and road Tram road Petroleum pumping station Material site (gravel pit) Seismic station

*Congress provided specific direction in section 511 of the California Desert Protection Act on these rights-of-way/easements.

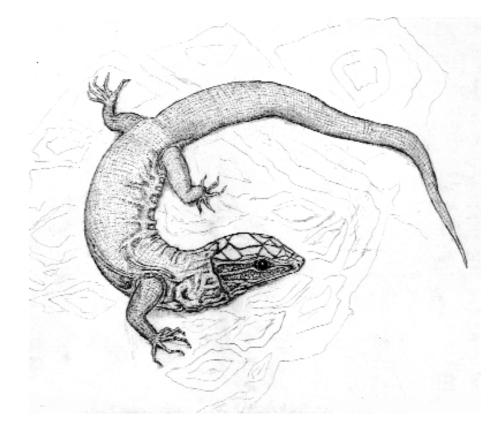


TABLE 14: COST SUMMARY

Proposed Activity	Gross	Pre-Design Costs	Design	Tatal Dasiant	Disease
	Construction Costs	& Supplemental Services	Design Costs	Total Project Costs	Phase
Desert tortoise recovery actions (research,	-	-	-	\$490,000	funded
monitoring, education, displays, patrols, 6 new				annually	FY 01
positions)*					
Mojave tui chub recovery actions (pond	-	-	-	\$75,000	funded
dredging, aquatic plant control, monitoring)				annually	FY 01
Remove feral burros (approx. 700 animals @	-	-	-	\$100,000	funded
\$800/burro);				annually	FY 01
fence Clark Mountain boundary (36 miles)				\$1,500,000	
Enhance cultural resource program	-	-	-	\$494,000	
(inventory, monitoring, studies, nominations,				annually	
protection, interpretation, 8 new positions)				annaanj	
Kelso Depot rehabilitation and partial	\$5, 397,500	\$321,546	\$509,454	\$6,228,500	funded
restoration (including historic landscaping,	\$5, 577,500	\$521,540	\$307,434	\$0,220,000	FY 01
water utilities, parking, comfort station)*					1101
Kelso Depot interpretive exhibits (plan,	\$560,000	\$40,000	\$150,000	\$750,000	funded
produce, and install museum exhibits)	\$000,000	\$10,000	\$100,000	\$100,000	FY 02
Kelso Depot operation and maintenance	-	_		\$500,000	
(interpretive and visitor use staff, maintenance,				annually	'
protection, 14 new positions)				annuany	
Soda Springs self-guided interpretive trail	\$59,000	\$3,500	\$5,000	\$67,500	
displays, and exhibits		\$3,300	\$3,000		
Interpretive displays/ exhibits at five key	\$118,000	\$7,000	\$10,000	\$135,000	
roadside locations (including parking lots)					
Mid Hills campground (improve accessibility	\$77,000	\$4,500	\$6,500	\$88,000	
to 10 campsites, add group site with vault					
toilet)					
New 15-site semi-primitive campground	\$83,000	\$5,000	\$7,000	\$95,000	
with fire rings, picnic tables and pit toilet	¢17 F00	¢1 000	¢1 E00	¢ 20, 000	1
Informational kiosks at three key entry	\$17,500	\$1,000	\$1,500	\$20,000	1
points into Granite Mountains Natural Reserve				¢ 100 000	
Headquarters space in Barstow (est. for GSA	-	-	-	\$400,000	
lease of 19,000 sq. ft., plus utilities and				annually	
phones)	#000.000	#17.000	00.000	#000.000	
Field offices in two locations to be	\$283,000	\$17,000	22,000	\$322,000	Ш
determined through site specific plans				#FF 000	
Central maintenance facility (co-located	-	-	-	\$55,000	funded
with new interagency fire center)	*1 100 000	÷ (7, 000	* 05 000	±1.000.000	FY 01
Interagency fire center (dormitory for 15,	\$1,120,000	\$67,000	\$95,000	\$1,282,000	funded
offices, storage space, 4 bay garage for					FY 01
trucks)*	#004.000	* 00.000	#00.000	* 4 4 0 0 0 0	
Replace existing mobile homes in Baker with 2 and 3 bedroom duplexes (5 units)	\$384,000	\$23,000	\$33,000	\$440,000	II
Renovate and upgrade acquired housing in	\$265,000	\$16,000	\$23,000	\$304,000	
Preserve for employee use (per NPS housing	+		+++++++++++++++++++++++++++++++++++++	+ ,	
standards – 5 units)					
Construct new housing at Kelso, Cima and	\$1,225,000	\$42,000	\$100,000	\$1,367,000	
Hole-in-the-Wall (four 2-bedroom duplexes; six	ψ1,220,000	ψ12,000	\$100,000	\$1,007,000	
3-bedroom homes)					
Enhance maintenance program (maintain	_	_		\$400,000	
new facilities, equipment and supplies, 6	-	-	-	annually	
positions)				annually	
Carrying Capacity visitor surveys and data	+			\$100,000	
	-	-	-	φ100,000	
gathering on resource indicators, 3 positions				¢100.000	1
Fire effects studies (research on removal of				\$100,000	
grazing impacts on tortoise, and fire history)				for three years	

Disturbed lands restoration (includes grazed				\$200,000	I
areas, closed roads and abandoned mine lands), 1 position				annually	
Hazardous materials (identification, characterization, remediation and/or removal, management of park wastes)				\$250,000	I
Establish lands program (coordinate with willing sellers, convert rights-of-way, review development proposals, manage databases), 2 positions				\$150,00 annually	I
Inventorying and monitoring of natural and cultural resources, 4 positions				\$200,000 annually	I
Education and outreach program (develop materials and programs, provide staff, assist schools), 2 positions				\$150,000 annually	I
Sand and gravel for routine road maintenance				\$100,000 annually	I
TOTAL NEEDS	\$9,689,000	\$547,546	\$962,454	\$16,513,000	
ALREADY FUNDED	7,077,500	428,546	754,454	8,880,500	
REMAINING NEEDS	2,611,500	119,000	208,000	7,632,500*	

*Of the total remaining needs: base increase \$2,694,000 construction \$4,938,500 PHASES: I - 1-5 years II - 6-10 years

III - Spread evenly over 15 years

