



Tables

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

Metapopulation*	Population	Population Status**	Population Size Class
Central Mojave	Old Dad/Kelso/Marl	N	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

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

TABLE 5: ANNUAL VISITATION FOR MOJAVE NATIONAL PRESERVE

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

* 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.

TABLE 8: NORTHEASTERN SAN BERNARDINO COUNTY BUCK KILL DATA.

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		

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)

TABLE 9: HUNTING STATISTICS FOR SAN BERNARDINO COUNTY

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

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

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

Grazing Allotment	Entire Allotment		Portion of Allotment in Mojave			Range Condition***
	Total Acreage	Total Perennial AUMs	Acreage in Mojave NP	Perennial AUMs (% of total)	Acres in Critical Habitat (%)	
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	

* = 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	Purpose
AT&T	Underground communications cable
Southern California Edison*	Electric transmission line, aerial
Southern California Gas Co.*	Natural Gas pipeline
Cal-Nev	Oil pipeline
Molycorp*	Waste water pipeline
Pacific Bell	Communication site
U.S. Sprint	Telephone line
Union Pacific	Railroad
	Water pipeline
	Communication site and road
Kaiser Resources	Tram road
Southern California Gas Co.	Petroleum pumping station
Cal Trans	Material site (gravel pit)
U.S. Geological Survey	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 Construction Costs	Pre-Design Costs & Supplemental Services	Design Costs	Total Project Costs	Phase
Desert tortoise recovery actions (research, monitoring, education, displays, patrols, 6 new positions)*	-	-	-	\$490,000 annually	funded FY 01
Mojave tui chub recovery actions (pond dredging, aquatic plant control, monitoring)	-	-	-	\$75,000 annually	funded FY 01
Remove feral burros (approx. 700 animals @ \$800/burro); fence Clark Mountain boundary (36 miles)	-	-	-	\$100,000 annually \$1,500,000	funded FY 01
Enhance cultural resource program (inventory, monitoring, studies, nominations, protection, interpretation, 8 new positions)	-	-	-	\$494,000 annually	I
Kelso Depot rehabilitation and partial restoration (including historic landscaping, water utilities, parking, comfort station)*	\$5,397,500	\$321,546	\$509,454	\$6,228,500	funded FY 01
Kelso Depot interpretive exhibits (plan, produce, and install museum exhibits)	\$560,000	\$40,000	\$150,000	\$750,000	funded FY 02
Kelso Depot operation and maintenance (interpretive and visitor use staff, maintenance, protection, 14 new positions)	-	-	-	\$500,000 annually	I
Soda Springs self-guided interpretive trail displays, and exhibits	\$59,000	\$3,500	\$5,000	\$67,500	II
Interpretive displays/ exhibits at five key roadside locations (including parking lots)	\$118,000	\$7,000	\$10,000	\$135,000	I
Mid Hills campground (improve accessibility to 10 campsites, add group site with vault toilet)	\$77,000	\$4,500	\$6,500	\$88,000	I
New 15-site semi-primitive campground with fire rings, picnic tables and pit toilet	\$83,000	\$5,000	\$7,000	\$95,000	II
Informational kiosks at three key entry points into Granite Mountains Natural Reserve	\$17,500	\$1,000	\$1,500	\$20,000	I
Headquarters space in Barstow (est. for GSA lease of 19,000 sq. ft., plus utilities and phones)	-	-	-	\$400,000 annually	I
Field offices in two locations to be determined through site specific plans	\$283,000	\$17,000	22,000	\$322,000	II
Central maintenance facility (co-located with new interagency fire center)	-	-	-	\$55,000	funded FY 01
Interagency fire center (dormitory for 15, offices, storage space, 4 bay garage for trucks)*	\$1,120,000	\$67,000	\$95,000	\$1,282,000	funded FY 01
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 Preserve for employee use (per NPS housing standards – 5 units)	\$265,000	\$16,000	\$23,000	\$304,000	I
Construct new housing at Kelso, Cima and Hole-in-the-Wall (four 2-bedroom duplexes; six 3-bedroom homes)	\$1,225,000	\$42,000	\$100,000	\$1,367,000	II
Enhance maintenance program (maintain new facilities, equipment and supplies, 6 positions)	-	-	-	\$400,000 annually	
Carrying Capacity visitor surveys and data gathering on resource indicators, 3 positions	-	-	-	\$100,000	II
Fire effects studies (research on removal of grazing impacts on tortoise, and fire history)	-	-	-	\$100,000 for three years	I

Disturbed lands restoration (includes grazed areas, closed roads and abandoned mine lands), 1 position				\$200,000 annually	I
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				\$150,000 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

