Cal/Ecotox
Exposure Factors for San Joaquin Kangaroo Rat (Dipodomys nitratoides)*

Endpoint Type	Endpoint Value	Error	Range	Units	Sex	Life Stage	Location	Note	Reference
Age at Fledging, Metamorphosis, Weaning			21 - 24	d	NR	Juvenile	Lab	a	1
Age at Sexual Maturity	84			d	F	Adult	Lab	b	1
Body Weight - Mean	see citation			g	NR	Juvenile	Lab	c	1
Body Weight - Mean	2.2		1.5 - 3.5	g	B	Neonate	Lab	d	2
Clutch or Litter Size	2.3		1 - 3	pups/litter	F	Adult	Lab	e	1
Clutch or Litter Size	2			young/litter	F	Adult	Lab	f	2
Duration of Incubation or Gestation	32			d	F	Adult	Lab	g	1
Growth Rate	2.5 (0d); 5.0 (10d); 9.0 (17d); 16.9 (33d); 19.1 (40d)			g	NR	Juvenile	Lab	h	2
Population Density			3.0 - 3.8	#/ha	NR	NR	Tulare; CA	i	3
Population Density			10.3 - 20.2	#/ha	NR	NR	San Luis Obispo; CA	j	3
Population Density			4.9 - 6.1	#/ha	NR	NR	Fresno; CA	k	4
Population Density			1 - 25	#/ha	NR	NR	CA	l	5
Time of Mating/ Laying	review				B	Adult		m	6

Notes

a N=NR
b earliest age of conception; N=NR
c figure of changes in weight over time; N=NR; Age=0 - 140 d
d N=7; Age=at birth; adults captured near Fresno
e N=12 litters
f N=NR; adults captured near Fresno
g N=2
h body weight at various ages (0-40d); N=1; Age=0-40d
i range of average population density in 2 habitat types; N=11-18/habitat type; Pixley National Wildlife Refuge
j range of average population density over 3 yrs; N=10-18/yr; Elkhorn Plain Ecological Reserve
k range for 2 sites; mean density for 4 sampling periods; N=68 - 326 animals/site; Feb. - May; Whitesbridge Rd.
l range of monthly densities at various sites; N=3,690 trap nights; Jan. - May; Naval Air Station, Lenmoore
m N=NR

References

1 Eisenberg, John F. and Donald E. Isaac. 1963. The reproduction of heteromyid rodents in captivity. J. Mammal. 44:61-67.
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3 Williams, Daniel F. and David J. Germano. 1992. Recovery of endangered kangaroo rats in the San Joaquin Valley, California. Trans. West. Sect. Wildl. Soc. 28:93-106.
4 Koos, Karen A. 1977. The Fresno kangaroo rat population survey, 1977 (Final Report). Sacramento, CA: California Department of Fish and Game, Nongame Wildlife Investigations. Project E-1-1 ed. 10 p.
5 Morrison, Michael L., L. Scott Mills and Amy J. Kuenzi. 1996. Study and management of an isolated, rare population: the Fresno kangaroo rat. Wildl. Soc. Bull. 24:602-606.
6 Best, Troy L. 1991. Dipodomys nitratoides. Mamm. Species. 381:1-7.

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