Cal/Ecotox
Exposure Factors for Merriam's Kangaroo Rat (Dipodomys merriami)*

Endpoint Type	Endpoint Value	Error	Range	Units	Sex	Life Stage	Location	Note	Reference
Age at Fledging, Metamorphosis, Weaning			20 - 25	d	B	Juvenile	AZ	a	1
Age at Fledging, Metamorphosis, Weaning	< 1			mo	B	Juvenile	AZ	b	2
Age at Fledging, Metamorphosis, Weaning			17 - 22	d	B	Juvenile	Lab	c	3
Age at Fledging, Metamorphosis, Weaning			21 - 25	d	F	Juvenile	Lab	d	4
Age at Fledging, Metamorphosis, Weaning			19 - 22	d	NR	Juvenile	Lab	e	5
Age at Fledging, Metamorphosis, Weaning			17 - 22	d	NR	Juvenile	Lab	f	6
Age at Sexual Maturity	<2			mo	B	Adult	NV	g	7
Age at Sexual Maturity	64			d	F	Adult	Lab	h	4
Age at Sexual Maturity	1			yr	M	Adult	Inyo; CA	i	8
Age at Sexual Maturity	2			mo	NR	Adult	AZ	j	9
Body Fat (total or %)	see citation			%	B	NR	San Bernardino; CA	k	10
Body Fat (total or %)			3.1 - 3.8	%	NR	NR	San Bernardino; CA	l	11
Body Weight - Mean	see citation			g	B	Adult	NV	m	7
Body Weight - Mean	37.4	5.0 SD		g	B	Adult	NV	n	12
Body Weight - Mean			38.4 - 44.38	g	F	Adult	AZ	o	1
Body Weight - Mean	41.1	0.1		g	F	Adult	AZ	p	2
Body Weight - Mean	32.6	4.1 SD		g	F	Adult	Inyo; CA	q	8
Body Weight - Mean			36.5 - 43.8	g	F	Adult	AZ	r	13
Body Weight - Mean			39.1 - 44.1	g	M	Adult	AZ	s	1
Body Weight - Mean	49.9	0.2		g	M	Adult	AZ	t	2
Body Weight - Mean	44.0	0.3		g	M	Adult	AZ	u	2
Body Weight - Mean			32.2 - 42.2	g	M	Adult	Riverside; CA	v	14
Body Weight - Mean	36.2	3.7 SD		g	M	Adult	Inyo; CA	w	8
Body Weight - Mean			39.5 - 46.5	g	M	Adult	AZ	x	13
Body Weight - Mean	36.7	3.7 SD	30.5 - 45.5	g	NR	Adult	Lab	y	15
Body Weight - Mean	see citation			g	B	Both Adult and Juv.	CA	z	16
Body Weight - Mean	see citation			g	B	Both Adult and Juv.	Lab	aa	3
Body Weight - Mean	42.8			g	B	Both Adult and Juv.	AZ	ab	17
Body Weight - Mean	17			g	B	Juvenile	Inyo; CA	ac	8
Body Weight - Mean	see citation			g	NR	Juvenile	Lab	ad	6
Body Weight - Mean	3.04		2.2 - 4.6	g	B	Neonate	Lab	ae	3
Body Weight - Mean	3			g	NR	Neonate	Inyo; CA	af	8
Body Weight - Mean	see citation			g	B	NR	San Bernardino; CA	ag	10
Body Weight - Mean	39.6	7.1 SD	23.2 - 46.2	g	F	NR	Lab	ah	18
Body Weight - Mean	33	0.32 SE		g	F	NR	Inyo; CA	ai	19
Body Weight - Mean	34.2	3.8 SD	26.4 - 39.7	g	M	NR	Lab	aj	18
Body Weight - Mean	36	0.22 SE		g	M	NR	Inyo; CA	ak	19
Body Weight - Mean			32.6 - 34.2	g	NR	NR	Lab	al	20
Body Weight - Mean			38.3 - 40.5	g	NR	NR	Lab	am	21
Body Weight - Mean	33.9	2.2 SD	28.7 - 37.9	g	NR	NR	San Bernardino; CA	an	22
Body Weight - Mean			36.4 - 40.5	g	NR	NR	San Bernardino; CA	ao	11
Clutch or Litter Size	2.2		2-3	pups/litter	F	Adult	Lab	ap	5
Clutch or Litter Size	2.6		1-5	pups /litter	F	Adult	NV	aq	7
Clutch or Litter Size	2			young/litter	F	Adult	AZ	ar	2
Clutch or Litter Size	2.8		1-5	young/litter	F	Adult	Lab	as	10

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Clutch or Litter Size	2.5		1-5	pups/litter	F	Adult	Lab	at	4
Clutch or Litter Size	2.02		1 - 3	embryos/female	F	Adult	AZ	au	23
Clutch or Litter Size	2.2		1-4	embryos/ female	F	Adult	San Bernardino; CA	av	11
Clutch or Litter Size	2.46	0.72 SD	2 - 5	pups/itter	F	Adult	Inyo; CA	aw	8
Clutch or Litter Size	2.02		1 - 3	embryos/female	F	Adult	AZ	ax	13
Clutches or Litters per year			1-2	litters/yr	F	Adult	NV	ay	7
Dietary Composition	seeds (82%), herbs (14%), shrub (2%), arthropods (2%)			%	NR	NR	AZ	az	1
Dietary Composition	grass seeds (74.2%), annual forb seeds (37.4%), perennial seeds (7.4%), vegetative plant parts (7.4%), insect parts (0.3%), debris (2.7%), unidentified seeds (3%)			%	NR	NR	NV	ba	7
Dietary Composition	seed (77%); vegetation (18%); arthropod (4.5%); feces (0.5%)			%	NR	NR	San Bernardino; CA	bb	22
Dietary Composition	grass seeds (49%); forb seeds (33%); shrub seeds (12%); other vegetative parts (5%)			%	NR	NR	AZ	bc	23
Dietary Composition	seeds (75%); leaves (20%); flowers (3%); stems (1%); arthropods (1%)			%	NR	NR	San Bernardino; CA	bd	11
Dietary Composition	Grasses: Oryzopsis hymenoides (18.0%); Hilaria rigida (13.7%); Tridens pulchella (3.3%); Bromus rubens (4.7%); Annual forbs: Plantago insularis (16.6%); Eriogonum spp. (14.3%); Phacelia spp. (6.8%); Vegetative plant parts: Phacelia spp. (6.0%); Erodium circutarium (3.2%); Misc. (8.4%)			%	NR	NR	NV	be	24
Duration of Incubation or Gestation	33		32-35	d	F	Adult	Lab	bf	4
Duration of Incubation or Gestation	4			wk	F	Adult	Inyo; CA	bg	8
Fledging or Weaning Rate	42			d	NR	Juvenile	San Bernardino; CA	bh	11
Food Ingestion Rate	see citation			g/d	F	Adult	Lab	bi	10
Food Ingestion Rate	12			% body weight/d	B	NR	Lab	bj	23
Foraging Distance			65-125	m	B	NR	Inyo; CA	bk	19
Growth Rate			0.22 - 0.25	%/d	B	Adult	CA	bl	3
Growth Rate	see citation				B	Both Adult and Juv.	AZ	bm	2
Growth Rate	see citation				B	Juvenile	AZ	bn	1
Growth Rate	see citation			g	NR	Juvenile	Lab	bo	6
Growth Rate	4.0 (0); 10.0 (2 wks); 18.0 (4 wks); 24.0 (6 wks); 28.0 (8 wks); 31.0 (10 wks); 34.0 (12 wks); 36.0 (14 wks)			g	NR	Juvenile	Lab	bp	13
Home Range	62.0	4.7		m	B	Adult	AZ	bq	1

Endpoint Type	Endpoint Value	Error	Range	Units	Sex	Life Stage	Location	Note	Reference
Home Range	2644			m2	F	Adult	AZ	br	9
Home Range	25.0		0 - 158	m	F	Adult	AZ	bs	9
Home Range	50.0			m	F	Adult	AZ	bt	9
Home Range	0.373			acres	F	Adult	AZ	bu	23
Home Range			0.21 - 0.43	ha	F	Adult	Riverside; CA	bv	25
Home Range	0.373			acres	F	Adult	AZ	bw	13
Home Range	3.39		1.15 - 5.39	acres	F	Adult	TX	bx	26
Home Range	46.5		0 - 265	m	M	Adult	AZ	by	9
Home Range	7413			m2	M	Adult	AZ	bz	9
Home Range	0.466			acres	M	Adult	AZ	ca	23
Home Range			0.18 - 0.52	ha	M	Adult	Riverside; CA	cb	25
Home Range	0.466			acres	M	Adult	AZ	cc	13
Home Range	6.38		2.90 - 8.39	acres	M	Adult	TX	cd	26
Home Range	0.243			acres	B	Juvenile	AZ	ce	23
Home Range	0.243			acres	B	Juvenile	AZ	cf	13
Home Range	61.5			m	M	Juvenile	AZ	cg	9
Home Range	155			m	B	NR	CA	ch	16
Home Range	37.3			m	B	NR	NV	ci	27
Home Range	53.8			m	F	NR	AZ	cj	2
Home Range	44.1			m	M	NR	AZ	ck	2
Home Range	0.49			ha	NR	NR	NV	cl	28
Longevity	43			mo	B	Adult	AZ	cm	17
Longevity	at least 36			mo	F	Adult	AZ	cn	2
Longevity	2			yrs	NR	Adult	AZ	co	9
Longevity			21 - 23	mo	NR	Adult	CA	cp	16
Longevity	8.3			mo	B	NR	CA	cq	29
Metabolic Rate	OC = 5.32 - 0.134 T			ml O2/g/hr	B	Adult	Lab	cr	1
Metabolic Rate			103 - 181	kcal/day	B	Adult	Lab	cs	1
Metabolic Rate			1.39 - 4.91	ml CO2/g/hr	NR	Adult	NV	ct	30
Metabolic Rate			0.196 - 0.656	kcal/g/d	NR	Adult	NV	cu	30
Metabolic Rate	0.619	0.099 SD		ml O2/min	NR	Adult	Lab	cv	15
Metabolic Rate			1.1 - 1.42	ml O2/g/h	NR	NR	Lab	cw	20
Metabolic Rate	log10(L CO2/d) = 0.845log10(BW) - 1.005			L CO2/d	NR	NR	San Bernardino; CA	cx	22
Metabolic Rate	2.00	0.45 SD	1.56 - 2.67	L CO2/d	NR	NR	San Bernardino; CA	cy	22
Metabolic Rate	1.2			cc O2/g/hr	NR	NR	Lab	cz	31
Metabolic Rate	OC = 3.57 + (-0.176)(T - 20.14)			cc O2/g/hr	NR	NR	Lab	da	31
Metabolic Rate	3.24	0.12 SE		cc O2/g/h	NR	NR	Lab	db	19
Metabolic Rate	3.76	0.11 SE		cc O2/g/h	NR	NR	Lab	dc	19
Population Density	6			#/ha	B	Adult	Riverside; CA	dd	25
Population Density	1			#/ 1.91 acres	F	Adult	TX	de	26
Population Density	1			#/1.63 acres	M	Adult	TX	df	26
Population Density	11.47		7.8 - 15.6	#/ha	B	Both Adult and Juv.	AZ	dg	1

Endpoint Type	Endpoint Value	Error	Range	Units	Sex	Life Stage	Location	Note	Reference
Population Density			1.4 - 7.0	#/acre	B	Both Adult and Juv.	AZ	dh	23
Population Density	7.93			#/ha	B	Both Adult and Juv.	AZ	di	17
Population Density	7.8		3 - 15	#/ha	B	NR	AZ	dj	2
Population Density	29			#/ha	B	NR	CA	dk	29
Population Density	17.5	1.6 SD		#/ha	NR	NR	San Bernardino; CA	dl	22
Population Density	16.2		12.3 - 19.5	#/ha	NR	NR	San Bernardino; CA	dm	11
Population Density			0.44 - 3.7	#/ha	NR	NR	CA	dn	16
Survival/ Mortality	85.1			%/mo	B	NR	CA	do	29
Survival/ Mortality	0.370			/yr	F	NR	AZ	dp	2
Survival/ Mortality	0.304			/yr	M	NR	AZ	dq	2
Time of Hatching or Parturition	Jan. - Mar. (begin); Apr. - May (peak); Aug. (end)				F	Adult	AZ	dr	1
Time of Hatching or Parturition	Feb. - June				F	Adult	Inyo; CA	ds	8
Time of Mating/ Laying	Jan. - June				B	Adult	Inyo; CA	dt	8
Time of Molt	July and August				NR	NR	Inyo; CA	du	19
Time of Torpor or Hibernation	none				F	Adult	Inyo; CA	dv	8
Water Ingestion Rate	10.7			g/d	F	Adult	Lab	dw	10
Water Ingestion Rate	4.8			g/d	F	Adult	Lab	dx	10
Water Ingestion Rate	log10(WI) = 0.652log10(BW) - 0.549			ml water/d	NR	NR	San Bernardino; CA	dy	22
Water Ingestion Rate	3.14	1.33 SD	1.95 - 6.99	ml water/d	NR	NR	San Bernardino; CA	dz	22

Notes

a N=NR; San Simon Valley, Portal (elev., 1370 m)
b N=NR; Cave Creek Bajada, Cochise County (elev., 1330 m)
c N=34; captured at Indian Cove, Joshua Tree National Monument
d N=NR
e N=4 litters
f N=4 litters; adults captured at Alpine Butte, Los Angeles County, CA
g age when reproductive activity observed; N=10; Las Vegas Valley, Clark County (elev., 2500 ft)
h youngest age of female conceiving; N=51
i N=NR; Owens Valley, Big Pine (lat., 37^o11'N)
j N=NR; Portal
k figure of seasonal changes in % body fat; N=NR; Indian Cove, Joshua Tree National Monument
l range of 4 seasonal means of fat content (% live weight); N=20-42/season; Sept. - July; Indian Cove, Joshua Tree National Monument
m figure of seasonal changes in mean body weight; N=2-96/mo; Las Vegas Valley, Clark County (elev., 2500 ft)
n N=13; Great Basin Desert, near Reno
o N=NR; San Simon Valley
p N=NR; Condition=non-breeding; yr round; Cave Creek Bajada, Cochise County (elev., 1330 m)
; see citation for figure of seasonal changes in weight
q N=154; Owens Valley, Big Pine (lat., 37^o11'N); see citation for figure of seasonal changes in weight
r range of seasonal body weights; N=482; yr-round; Santa Rita Experimental Range, Tucson (elev., 3000 - 4500 ft); see citation for figure of monthly weight changes
s N=NR; San Simon Valley
t N=NR; Condition=pregnant; yr round; Cave Creek Bajada, Cochise County (elev., 1330 m)
u N=443; yr round; Cave Creek Bajada, Cochise County (elev., 1330 m)
; see citation for figure of seasonal changes in weight
v N=10; Nov-May; Boyd Deep Canyon Reserve (elev., 300m)
w N=162; Owens Valley, Big Pine (lat., 37^o11'N); see citation for figure of seasonal changes in weight

x	range of seasonal body weights; N=644; yr-round; Santa Rita Experimental Range, Tucson (elev., 3000 - 4500 ft); see citation for figure of monthly weight changes
y	N=30
z	figure of seasonal changes in weight; N=NR; yr-round; Indian Cove, Joshua Tree National Monument
aa	figure of body weight at ages 0 - 162 d; N=34; Age=0 - 162 d; captured at Indian Cove, Joshua Tree National Monument
ab	N=968; Portal, Cochise County (elev. 1330 m)
ac	N=NR; Age=4 wk; Owens Valley, Big Pine (lat., 37^o11'N)
ad	figure of changes in weight over time; N=4 litters; Age=0 - 140 d; adults captured at Alpine Butte, Los Angeles County, CA
ae	N=9 litters; Age=at birth; captured at Indian Cove, Joshua Tree National Monument
af	N=NR; Owens Valley, Big Pine (lat., 37^o11'N)
ag	figure of seasonal changes in weight; N=NR; Indian Cove, Joshua Tree National Monument
ah	N=11; captured at Boulder City, NV
ai	N=NR (74 males and females total); all months; Owens Valley
aj	N=16; captured at Boulder City, NV
ak	N=NR (74 males and females total); all months; Owens Valley
al	N=NR; captured in San Bernadino and Riverside Counties, CA
am	range of means of initial weights for 3 experimental groups; N=9/group; captured at Joshua Tree, San Bernadino County, CA
an	N=4-9 per mo/15 mo; yr-round; Kelso Sand Dunes (elev., 830-840 m) [lat., 34^o53'30"N, long., 115^o40'20"W]
ao	range of 4 seasonal means; N=20-42/season; Sept. - July; Indian Cove, Joshua Tree National Monument
ap	N=4 litters
aq	estimated by embryo counts; N=163; Las Vegas Valley, Clark County (elev., 2500 ft)
ar	estimated by palpation; N=NR; Cave Creek Bajada, Cochise County (elev., 1330 m)
as	N=NR; captured in Clark County, NV
at	N=51; captured near Palm Springs, CA
au	N=NR; Santa Rita Experimental Range, Tucson (elev., 3000-4000 ft)
av	N=24; Indian Cove, Joshua Tree National Monument
aw	N=NR; Owens Valley, Big Pine (lat., 37^o11'N)
ax	N=133; Mar. - Oct.; Santa Rita Experimental Range, Tucson (elev., 3000 - 4500 ft)
ay	N=NR; Las Vegas Valley, Clark County (elev., 2500 ft)
az	% occurence of food items in cheek pouch contents; N=15; San Simon Valley, Portal (elev., 1370 m)
ba	% occurrence in cheek pouch contents; N=411; Las Vegas Valley, Clark County (elev., 2500 ft); see citation for figure of seasonal food preferences estimated via stomach contents
bb	% of total dry matter of stomach contents; N=4-9 per mo/15 mo; yr-round; Kelso Sand Dunes (elev., 830-840 m) [lat., 34^o53'30"N, long., 115^o40'20"W]
bc	% frequency of occurrence in pouch contents; N=1001 pouches; yr-round; Santa Rita Experimental Range, Tucson (elev., 3000-4000 ft); see citation for seasonal changes in diet
bd	% by weight of stomach contents; N=172; Indian Cove, Joshua Tree National Monument; see citation for detailed food item analysis and seasonal changes in diet
be	% volume in cheek pouches of major (>2%) food items; N=54; Mar. - June
	; Las Vegas Valley, Clark County (elev., 2500 ft); see citation for detailed list of food items
bf	modal duration; N=65; captured near Palm Springs, CA
bg	N=NR; Owens Valley, Big Pine (lat., 37^o11'N)
bh	estimated age at weaning; N=104; Indian Cove, Joshua Tree National Monument
bi	figure of daily food intake; N=4-16; Condition=non-reproductive, lactating or gestating; captured in Clark County, NV
bj	body weight maintanance requirement based on a rolled barley diet; N=10; also reported as 4.9 +/- 0.1 g/d
bk	minimum distances moved by individuals on one trap night; N=5 males, 6 females; all months; Owens Valley (1,220 m)
bl	range in male and female % change in body weight per day following recapture during 4 trapping periods; N=NR; Age="subadult"; Nov. - Feb.; Indian Cove, Joshua Tree National Monument
bm	figure of logistic growth curve for changes in body weight over time; N=NR; Age=1 - 12 mo; Cave Creek Bajada, Cochise County (elev., 1330 m)
bn	figure of changes in weight over time; N=90; San Simon Valley, Portal (elev., 1370 m)
bo	figure of changes in weight over time; N=4 litters; Age=0 - 140 d; adults captured at Alpine Butte, Los Angeles County, CA
bp	body weights at various ages (0 - 14 wks); N=3; Age=0 - 14 wks
bq	average range of movement after 3 captures; N=NR; San Simon Valley
br	estimated via minimum convex polygon method; N=4; Portal
bs	median lifetime distance moved from home range center (from first to last capture); N=25; Portal

bt	median lifetime distance moved from home range center (from first to last capture); N=16; Portal
bu	N=NR; Santa Rita Experimental Range, Tucson (elev., 3000-4000 ft)
bv	range of mean home range in 3 study periods estimated by radiotelemetry; N=7-10; Nov.-May; Boyde Deep Canyon Reserve (elev., 300m)
bw	average range; estimated as enclosed space occupied by used traps plus one-half distance to closest unused trap; N=13; yr-round; Santa Rita Experimental Range, Tucson (elev., 3000 - 4500 ft)
bx	N=4; June - July; Presidio County
by	median lifetime distance moved from home range center (from first to last capture); N=36; Portal
bz	estimated via minimum convex polygon method; N=5; Portal
ca	N=NR; Santa Rita Experimental Range, Tucson (elev., 3000-4000 ft)
cb	range of mean home range in 3 study periods estimated by radiotelemetry; N=8-11; Nov.-May; Boyde Deep Canyon Reserve (elev., 300m)
cc	average range; estimated as enclosed space occupied by used traps plus one-half distance to closest unused trap; N=11; yr-round; Santa Rita Experimental Range, Tucson (elev., 3000 - 4500 ft)
cd	N=4; June - July; Presidio County
ce	N=NR; Santa Rita Experimental Range, Tucson (elev., 3000-4000 ft)
cf	average range; estimated as enclosed space occupied by used traps plus one-half distance to closest unused trap; N=14; yr-round; Santa Rita Experimental Range, Tucson (elev., 3000 - 4500 ft)
cg	median lifetime distance moved from home range center (from first to last capture); N=16; Portal
ch	cumulative home range diameter for 6-8 mo period; N=34; Indian Cove, Joshua Tree National Monument; see citation for seasonal changes in home range
ci	home range expressed as "sigma" (radius within which the probability of an animal being present is 39%); N=9 sampling periods; yr-round; U.S. Atomic Energy Commission, Nevada Test Site; author notes 2xsigma = 86% probability and 3xsigma = 99% probability
cj	mean distance moved from site of initial capture; N=339; yr round; Cave Creek Bajada, Cochise County (elev., 1330 m)
ck	mean distance moved from site of initial capture; N=443; yr round; Cave Creek Bajada, Cochise County (elev., 1330 m) ;
cl	annual composite home range estimated by principal component method (95% probability); N=718 recapture loci; yr-round; Warm Springs Valley, Washoe County; see citation for seasonal changes in home range; mean body weight = 39.8g
cm	maximum longevity in the field; N=968; Portal, Cochise County (elev. 1330 m)
cn	oldest recorded; N=3; Cave Creek Bajada, Cochise County (elev., 1330 m)
co	N=NR; Portal
cp	longest recorded longevity; N=2; Indian Cove, Joshua Tree National Monument
cq	mean length of life at study site; N=NR; yr-round; Jacumba (elev., 988 m)
cr	equation relating oxygen consumption (OC) to temperature (T, 29-35C); N=6/sampling period; 10 periods; captured at San Simon Valley, AZ from Aug. - July
cs	maintenance energy expenditure estimated from oxygen consumption; N=6/sampling period; 10 periods; captured at San Simon Valley, AZ from Aug. - July
ct	range of mean monthly carbon dioxide production rates in the field; N=1 - 5/mo; August - April; Rock Valley; see citation for figure of oxygen consumption rates at ambient temperatures
cu	range of monthly estimated energy expenditures in the field; N=1 - 5/mo; August - April; Rock Valley
cv	resting metabolic rate at 30C; N=30; mean body weight = 36.7 g
cw	range of mean "minimal metabolism" estimated as oxygen consumption at 32C; N=8; captured in San Bernadino and Riverside Counties, CA
cx	field metabolic rate; equation relating whole animal carbon dioxide production rates to body weight (BW, g); r^2=0.466; N=4-9 per mo/15 mo; yr-round; Kelso Sand Dunes (elev., 830-840 m) [lat., 34^o53'30"N, long., 115^o40'20"W] ; see citation for figure relating field metabolic rate to ambient temperature
cy	field metabolic rate estimated from doubly labeled water; N=4-9 per mo/15 mo; yr-round; Kelso Sand Dunes (elev., 830-840 m) [lat., 34^o53'30"N, long., 115^o40'20"W] ; average weight = 33.9 g
cz	average oxygen consumption rate at 31-34C; N=25; captured at Lovejoy Buttes, Los Angeles County, CA; average body weight = 34.7 g
da	equation relating oxygen consumption (OC) to ambient temperature (T, 9-31C); N=25; captured at Lovejoy Buttes, Los Angeles County, CA
db	resting metabolism at 5 degrees C, in a natural nest; N=6 individuals
dc	resting metabolism at 5 degrees C, without a natural nest; N=6 individuals
dd	N=NR; Nov.-May; Boyde Deep Canyon Reserve (elev., 300m)
de	N=NR; June - July; Presidio County
df	N=NR; June - July; Presidio County
dg	N=NR; Aug. - July; San Simon Valley, Portal (elev., 1370 m)
dh	N=9 winters; winter; Santa Rita Experimental Range, Tucson (elev., 3000-4000 ft)
di	mean density; N=968; Portal, Cochise County (elev. 1330 m); see citation for figures of seasonal and yearly fluctutions in density
dj	N=782; yr round; Cave Creek Bajada, Cochise County (elev., 1330 m) ; see citation for figure of seasonal changes in density over 7 yrs.
dk	N=NR; yr-round; Jacumba (elev., 988 m)

dl	N=5; yr-round; Kelso Sand Dunes (elev., 830-840 m) [lat., 34^o53'30"N, long., 115^o40'20"W]
dm	N=NR; Indian Cove, Joshua Tree National Monument
dn	range of monthly density estimates over 2 yrs; N=NR; Indian Cove, Joshua Tree National Monument; see citation for figure of seasonal density changes
do	average monthly survival; N=220; yr-round; Jacumba (elev., 988 m)
dp	death rate per yr; N=354; Cave Creek Bajada, Cochise County (elev., 1330 m)
dq	death rate per yr; N=443; Cave Creek Bajada, Cochise County (elev., 1330 m)
dr	N=NR; San Simon Valley, Portal (elev., 1370 m)
ds	N=NR; Owens Valley, Big Pine (lat., 37^o11'N)
dt	N=NR; Owens Valley, Big Pine (lat., 37^o11'N)
du	N=NR; July-August; Owens Valley; All three species of heteromyids studied molted during this period.
dv	N=NR; Owens Valley, Big Pine (lat., 37^o11'N)
dw	estimated from food intake (rolled oats and carrots); N=4-9; Condition=lactating; captured in Clark County, NV
dx	estimated from food intake (rolled oats and carrots); N=16; Condition=non-reproductive and gestating; captured in Clark County, NV
dy	equation relating whole-animal water influx (WI) to body weight (BW, g); r^2 = 0.206; N=4-9 per mo/15 mo; yr-round; Kelso Sand Dunes (elev., 830-840 m) [lat., 34^o53'30"N, long., 115^o40'20"W]
dz	water influx rate estimated via doubly labeled water; N=4-9 per mo/15 mo; yr-round; Kelso Sand Dunes (elev., 830-840 m) [lat., 34^o53'30"N, long., 115^o40'20"W]
	; average weight = 33.9 g

References

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