

**SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count**

CIRCLE ONE: CPER PNGDATE (day-month-year) 23 July 98OBSERVERS mol, DS, Oh, JS, SD, ZM, MA, DG,WEATHER RainSTART TIME 21:11

END TIME _____

INITIAL MILEAGE 0.00

END MILEAGE _____

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
ANAM	.90	—	1	21:20	N S E <u>W</u>	FU	GR	
ANAM	1.40	—	4	21:25	N <u>S</u> E W	MS	GR	
ANAM	1.60	—	6	21:27	<u>N</u> S E W	FU	GR	
LETO	1.90	55.5	1	21:30	N S <u>E</u> W	FU	GR	
VUVE	1.95	—	1	21:34	<u>N</u> S E W	MS	GR	
LESP.	2.35	300 <u>E</u>	1	21:41	N S <u>E</u> W	FL	GR	UNIDENTIFIED
LETO	2.60	8.0	1	21:43	<u>N</u> S E W	FL	GR	
DIOR	2.80	—	1	21:47	N S E <u>W</u>	MS	GR	
DIOR	2.90	—	1	21:49	<u>N</u> S E W	MS	GR	
DIOR	3.0	—	2	21:51	N S <u>E</u> W	MS	GR	
BUWD	3.40	—	1	21:56	<u>N</u> S E W	MS	MX	FRG
DIOR	4.20	—	1	22:06	N S <u>E</u> W	FU	AC	
DIOR	4.25	—	1	22:07	N S <u>E</u> W	FU	AC	
LECA	4.30	41.0	1	22:08	N S <u>E</u> W	FU	AC	
LECA	4.55	60.0	2	22:13	N S <u>E</u> W	FU	AC	ONE JUV.
LECA	4.55	90.0	1	22:14	N S <u>E</u> W	FU	AC	
SYAU	5.1	0.0	1	22:20	<u>N</u> S E W	FU	AC	JUV.
ODHE	5.5	—	2	22:25	N S E <u>W</u>	FU	AC	MULE DEER

(18 rows)

ONE MALE
ONE FEMALE**Topography codes:**

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

CIRCLE ONE:

CPER

PNG

PAGE 2

DATE (day-month-year) 23 JULY 1998OBSERVERS MDL, DS, DL, JS, SO, ZM, MA, PGWEATHER RAINSTART TIME 21:11

END TIME _____

INITIAL MILEAGE 0.00

END MILEAGE _____

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
ANAM	6.1	—	1	22:29	N S <u>E</u> W	FU	AC	
CALA	6.9	—	1	22:34	N S <u>E</u> W	FU	AC	
LECA	6.9	39.0	1	22:34	N S <u>E</u> W	FU	AC	
DIDR	6.9	—	1	22:34	N S <u>E</u> W	FU	AC	
LECA	7.05	56.0	1	22:38	N S <u>E</u> W	FU	AC	
LECA	7.25	47.0	1	22:41	<u>N</u> S E W	FU	AC	
DIDR	7.25	—	1	22:43	<u>N</u> S E W	FU	AC	
LECA	7.85	59.0	2	22:48	<u>N</u> S E W	FU	GR	
LECA	8.20	73.0	3	22:53	<u>N</u> S E W	FU	GR	MESA FIELD
DIDR	8.30	—	1	22:58	<u>N</u> S E W	FU	AC	
DIDR	8.40	—	1	23:00	<u>N</u> S E W	FU	AC	ROAD
ANAM	8.40	—	1	23:00	<u>N</u> S E W	FU	AC	
LECA	8.80	70.0	1	23:05	N <u>S</u> E W	FU	AC	
SYAU	9.8	0.0	1	23:21	<u>N</u> S E W	FU	HU	JUV.
DIDR	10.95	0.0	1	23:36	N <u>S</u> E W	FU	AC	
DIDR	13.40	—	1	0:01	N S E <u>W</u>	FU	AC	
ANAM	13.60	—	3	0:03	N <u>S</u> E W	FU	AC	
LECA	14.05	19.5	1	0:06	N <u>S</u> E W	FU	MX	

(18 rows)

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MX mixed grassland (w/AC or YU)

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SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

CIRCLE ONE: CPER PNGDATE (day-month-year) 23 JULY 1998OBSERVERS MPL, DS, PL, JS, SR, ZM, MA, DGWEATHER RAINSTART TIME 24:11END TIME 1:02 AMINITIAL MILEAGE 0.00END MILEAGE 18.7

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LETD	15.70	96.0	1	0:27	N S <u>EW</u>	FU	GR	
—	FOG	0:36 _{AM}	15.95 _{miles}	—	N S E W	—	—	—
LETD	16.15	40.0	1	0:36	N S E <u>W</u>	FU	GR	
ANAM	17.40	—	1	0:51	N S E <u>W</u>	FU	GR	
ANAM	17.40	—	3	0:51	N S <u>EW</u>	FU	GR	
ANAM	17.41	—	6	0:51	N <u>S</u> E W	FU	GR	
VUVE	18.55	—	1	1:00	N S E W	FU	GR	
VUVE	18.60	—	2	1:01	N S E W	FU	GR	
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			

(18 rows)

Topography codes:

FU flat upland
FL flat lowland
midslope
RG ridgetop
SW swale
CR creek drainage

Vegetation codes:

AC saltbush
YU yucca
MX mixed grassland (w/AC or YU)
GR grassland
HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountLECA - BLACK
LETO - WHITECIRCLE ONE: CPER PNGDATE (day-month-year) 15 October 1998OBSERVERS Dan Lett, Dave Smith, Jim Nelson, RebeccaDaniela, Dave HanniWEATHER Partial CloudSTART TIME 1918END TIME 23:25INITIAL MILEAGE 0END MILEAGE 19.8

95492

955125

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LETO	.25	51.2m	1	1922	N S <u>E</u> W	FU	GR	
SYAU	.45	19.9m	3	1926	N S E <u>W</u>	RG	GR	
LETO	1.9	1m	1	1944	N S <u>E</u> W	FL	GR	
LETO	2.1	20.5m	1	1950	N S <u>E</u> W	FL	GR	
LETO	2.1	20.7m	1	1950	N S E <u>W</u>	FL	GR	
SYAU	2.15	19.4m	1	1950	N S <u>E</u> W	FL	GR	
LETO	2.9	33.5m	1	2005	<u>N</u> S E W	LFU	GR	
DIOR	2.9	33.5m	1	2005	<u>N</u> S E W	FU	GR	
LETO	3.05	40.3m	1	2010	N <u>S</u> E W	SW	GR	
SYAU	4.15	19.6	15	2023	N <u>S</u> E W	MS	MX	
SYAU	4.15	1.5	1	2027	N <u>S</u> E W	MS	MX	
DIOR	4.4	0	1	2033	N S <u>E</u> W	FL	AC	
SYAU	4.6	24.7	1	2036	N S <u>E</u> W	FL	AC	
SYAU	4.7	0	1	2039	N S <u>E</u> W	FL	AC	
SYAU	4.85	15.1	1	2042	<u>N</u> S E W	FU	AC	
LECA	4.9	12.9	1	2043	<u>N</u> S E W	FL	AC	
SYAU	5.4	1	1	2048	N <u>S</u> E W	FU	HU	
LECA	8.4	27.3	1	2107	N <u>S</u> E W	FL	MX	

(18 rows)

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SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

CIRCLE ONE:

CPER

PNG

LECA BI

LETO Wh

DATE (day-month-year) 10-15-98

OBSERVERS _____

WEATHER Partial CloudSTART TIME 19:18END TIME 23:25INITIAL MILEAGE 0END MILEAGE 19.8

95512.5

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LETO	8.55	48.5	1	2110	NSEW	FL	ARM	
LECA	8.70	9.8	1	2125	NSEW	FU	AC	
LECA	8.90	38.1	1	2127	NSEW	FU	AC	
LECA	9.15	40.7	1	2131	NSEW	FU	AC	
SYAV	9.25	36.7	1	2134	NSEW	FU	AC	
LECA	10.40	36.2	1	2145	NSEW	FV	HU	
LECA	10.41	25.2	2	2148	NSEW	FU	HU	
SYAV	10.70	27.6	1	2151	NSEW	FU	MX	
SYAV	12.7	38.1	1	2210	NSEW	FU	GR	
LECA	12.7	56.9	1	2210	NSEW	FU	GR	
SYAV	12.8	5.0	1	2217	NSEW	FU	GR	
LECA	13.15	8.1	1	2220	NSEW	FU	GR	
LETO	16.90	21.4	1	2256	NSEW	FU	GR	
ANAM	18.35	—	4	2308	NSEW	FU	GR	
SYAV	18.90	0	1	2312	NSEW	FU	GR	
SYAV	19.70	45.9	1	2320	NSEW	FU	GR	
					NSEW			
					NSEW			

(18 rows)

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SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

CIRCLE ONE:

CPER

PNG

LECA - black tail
LETO - whitetail
SYAU - cottontail

DATE (day-month-year)

6 Jan. 00

OBSERVERS MDL, Jim Nelson, R. McClellan, D. Smith, Terry JonesWEATHER Clear no windSTART TIME 18:00END TIME 21:23INITIAL MILEAGE 0 mi.END MILEAGE 20.7 mi.

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LETO	0.55 mi	46 m	1	18:04	N S E <u>W</u>	MS	GR	sub-adult juvenile
LETO	0.7	54	2	18:09	<u>N</u> S E W	FU	GR	
LE??	1.15	73	1	18:15	<u>N</u> S E W	FU	GR	No 1.00 - 1.00
LETO	2.2	17.5	1	18:28	N S <u>E</u> W	FU	GR	
LETO	2.35	80	2	18:31	<u>N</u> S E W	FU	GR	
LECA	5.9	33	1	19:03	N <u>S</u> E W	FU	MXAC	near 100's
SYAU	6.0	12.5	1	19:05	N S E <u>W</u>	FU	HU	at headquarters
LECA	9.0	70	1	19:22	N S E <u>W</u>	FU	HU	alfalfa field
LECA	12.70	14.5	1	20:00	N S <u>E</u> W	FU	GR	
LECA	16.0	34.2	1	20:40	<u>N</u> S E W	FU	GR	
LETO	17.7	74.0	1	20:57	N S E <u>W</u>	Swale	GR	
LETO	18.7	37.5	1	21:08	<u>N</u> S E W	FU	GR	
ANHM	19.4		20	21:15	<u>N</u> S E W	FU	GR	
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			

(18 rows)

Topography codes:

FU flat upland

RG ridgetop

Vegetation codes:

AC saltbush

GR grassland

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

CIRCLE ONE:

CPER

PNG

* record landmarks
ea. night.

DATE (day-month-year)

12 July 99

OBSERVERS

P. Stapp, MDL, K. McLow, D. Houni, L. Lentz, Seth Cullin,
Nicole Snider, Caleb Rothmayer

WEATHER Clear - no wind - 0% cloud cover

START TIME

21:23

END TIME

0109

INITIAL MILEAGE

0.00

END MILEAGE

13.7

* veg very high
* a lot of pste & high
AGSM

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
VUVE	0.1	/	1	21:27	N S (P) W	RG	GR	
VUVE	0.2	/	1	21:27	N S (E) W	RG	GR	
LECA	0.85	150m	3	21:33	N S (E) W	MS	GR	
ANAM	1.0	/	1	21:35	N S E (W)	RG	GR	
ANAM	1.2	/	1	21:36	N S E (W)	RG	GR	
VUVE	1.65	/	3	21:41	N S E (W)	RG	MX/AC	
ANAM	2.10	/	2+	21:46	N S (E) W	RG	GR	
DIOR	3.05	0.0	1	21:56	N (S) E W	RG	GR	on road
ANAM	3.10	/	1	21:57	N (S) E W	RG	GR	crossed road
DIOR	3.20	0.0	1	21:58	N S (E) W	MS	GR	on road
DIOR	3.70	0.0	1	22:03	(N) S E W	MS	MX/AC	on road
SYAU	3.80	4.00m	1	22:05	N S (E) W	RG	YU	on top of yucca ridge at owl creek
SYAU	3.85	7.50m	1	22:06	N (S) E W	RG	YU	
SYAU	3.90	5.00m	1	22:08	(N) S E W	MS	YU	toward o.c
BUWO	4.0	0.0	1	22:10	(N) S E W	MS	YU	woodhouse on road
ODHE	4.2	/	1	22:13	N (S) E W	CR	YU	mule deer in drainage
DIOR	4.4	0.0	1	22:15	N S (E) W	FL	MX/AC	on road
LECA	4.5	13.5	1	22:16	(N) S E W	FL	MX/AC	

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

22 TOTAL

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) 12 July 1999OBSERVERS P. Stapp, M. Lindquist, K McCleave, W. Sneider, S. Calkins, L. LentzWEATHER Clear - no wind - 0% cloud coverSTART TIME END TIME INITIAL MILEAGE END MILEAGE

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
DIOR	4.60	0.0	1	22:20	N S <u>(E)</u> W	FL	MX/AC	on road
LECA	5.25	10.00m	1	22:26	N <u>(S)</u> E W	FL	MX/AC	
LECA	5.80	21.00m	1	22:28	N <u>(S)</u> E W	FL	MX/AC	
SYAU	5.35	6.00m	2	22:29	N <u>(S)</u> E W	FL	MX/AC	Near AES camp to the west of cat
BUOW	5.50	0.0	1	22:32	N <u>(S)</u> E W	HU	MX/AC	parking lot mud puddle in front of AES office
LECA	6.75	24.50m	1	22:43	N S E <u>(W)</u>	FU	MX/AC	w of 37.
LECA	6.85	31.50m	1	22:47	N S <u>(E)</u> W	CR	MX/AC	
SYAU	7.05	18.50m	1	22:50	N S <u>(E)</u> W	FU	MX/AC	
LECA	7.40	14.50m	1	22:55	N S <u>(E)</u> W	RG	MX/AC	corner of 37 & 122 top of hill before you
DIOR	8.70	0.0 ^{on} road	1	23:11	N <u>(S)</u> E W	FL	MX/AC	*turned off 122 @ 8.35 mi
LECA	9.20	9.50m	1	23:15	N S E <u>(W)</u>	FU	MX/AC	by Crested wheat plantings & fence line
LECA	10.00	5.50m	1	23:26	N <u>(S)</u> E W	FU	MX/AC	By windmill & cornals
ANAM	10.70	—	5	23:34	N S <u>(E)</u> W	MS	MX/AC	
LECA	11.90	2.00m	1	23:48	N S <u>(E)</u> W	FU	GR	STCO VERY TALL
CALA	12.60	2.00m	1	23:57	N S <u>(E)</u> W	FU	GR	STOCK TANK - TBL LOTS OF HIGH STCO
LECA	14.40	44.00m	1	00:14	N S <u>(E)</u> W	FU	GR	turning onto west 114
P. 4 N 4 M P. 1 on 4 h	14.40	2.00m	1	00:18	N <u>(S)</u> E W	FU		lots of sweet clover
LECA	14.50	44.00m	1	00:20	N <u>(S)</u> E W	FU		

(18 rows)

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FL flat lowland
MS midslope

RG ridgetop

SW swale

CR creek drainage

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AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) 12 July 1999

OBSERVERS _____

WEATHER _____

START TIME _____

END TIME 0109

INITIAL MILEAGE _____

END MILEAGE 18.7

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LETO	15.5	92m	1	0036	N S <u>(E)</u> W	FU	GR	
unknown Lepus	16.2	300m	1	0047	N S <u>(E)</u> W	SW	GR	
ANAM	17.5	300m	2	0057	N S <u>(E)</u> W	FL	GR	
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
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					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			

(18 rows)

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GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) 14 - July - 1999OBSERVERS M. Lindquist, L. Hartley, D. Leiker, S. Quinlivan, C. FarleyWEATHER 90% cloud cover, seasonably warmSTART TIME 9:12 PM END TIME 12:48 AMINITIAL MILEAGE 21455 END MILEAGE 26648

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
VUVE	0.2	—	2	9:15	N S <u>W</u>	RG	GR	trip meter off by 2m
LETO	0.5	1m	1	9:21	N S E <u>W</u>	MS	GR	
VUVE	1.6	—	2	9:35	<u>N</u> S E W	RG	GR	
ANAM	1.9	—	5	9:37	N <u>S</u> E W	FU	GR	
DIOR	3	—	1	9:51	N S E W	FU	GR	on road
MIQC	3.3	—	1	9:54	N S E W	FU	GR	on road
SYAU	4.0	on road	1	10:04	N S E W	SW	YU/MX	on road
Drizzling 9:45 —→					N S E W			
LECA	4.1	15m	1	10:05	<u>N</u> S E W	MS	GR	
LECA	4.3	3m	1	10:10	<u>N</u> S E W	FU	AC/MX	
LECA	4.4	12.5m	1	10:11	N <u>S</u> E W	FU	AC/MX	Subadult
LECA	4.4	21m	1	10:11	N <u>S</u> E W	FU	AC/MX	Subadult
LECA	4.5	1m	1	10:15	<u>N</u> S E W	FU	AC/MX	near owl CR EXCL.
SYAU	4.7	0	1	10:17	N S E W	FU	AC/MX	on road
SYAU	4.7	1m	1	10:18	<u>N</u> S E W	FU	AC/MX	
LECA	5.1	31m	1	10:22	N <u>S</u> E W	MS	AC/MX	
LECA	5.2	43m	1	10:24	N <u>S</u> E <u>W</u>	FU	AC/MX	
	5.4	through ARS		10:26	N S E W			

(18 rows)

Topography codes:

FU flat upland
FL flat lowland
MS midslopeRG ridgetop
SW swale
CR creek drainage

Vegetation codes:

AC saltbush
YU yucca
MX mixed grassland (w/AC or YU)
GR grassland
HU human structure (<30 m)34.8
45.5
19.3still
drizz
ing

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) 14 - July - 1999OBSERVERS M. Lindquist, L. Hartley, D. Leiker, S. Quinlivan, C. Farley

WEATHER _____

START TIME _____ END TIME _____

INITIAL MILEAGE _____ END MILEAGE _____

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
ODHE	5.8	—	2	10:29	N S E <u>W</u>	FU	clover	
LECA	6.6	21m	1	10:34	N S E <u>W</u>	FU	AC/MX	
LECA	6.7	41.5m	1	10:36	N S <u>W</u>	FU	AC/MX	
	10:38	raining slightly harder			N S E W			
LECA	6.9	18m	1	10:39	N S E <u>W</u>	FU	AC/MX	
LECA	6.9	0.0	1	10:40	N S E W	FU	AC/MX	Substrate on road
LECA	7.5	40m	1	10:44	N S <u>E</u> W	FU	AC/MX	
	E onto	Road	122	10:46	N S E W			
LECA	7.7	0.0	1	10:47	N S E W	FU	AC-YU in MX	
LECA	8.0	49m	1	10:49	<u>N</u> S E W	FU	GR	rain decreasing
LECA	8.0	53.5m	1	10:51	N <u>S</u> E W	FU	GR	
LECA	8.2	56m	1	10:54	<u>N</u> S E W	FU	irrigated cropland	
	Rain	increasing		10:56	N S E W			
	8.5	enter	5	10:58	N S E W	+	AC	
DIOR	8.6		1	10:59	N S E W	FU	MX/AC	
SYAU	8.8	6.5m	1	11:01	<u>N</u> S E W	FU	MX/AC	
ANAM	9.6		1	11:09	N S E <u>W</u>	FU	GR	
	Rain	slowing		11:23	N S E W			

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

**SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count**

CIRCLE ONE: CPER PNGDATE (day-month-year) 14-July-1999OBSERVERS m. Lindquist, L. Hartley, D. Leiker, S. Quinlivan, C. Farley**WEATHER**

START TIME _____

END TIME 12:48 Am

INITIAL MILEAGE _____

END MILEAGE 26648

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
	11.4	Stopped Raining		11:30	N S E W			
	11.8	Stipa Comata very tall		11:34	N S E W			
LECA	12.8	7.5 m	1	11:44	N S E <u>W</u>	FU	GR	100m from Windmill
LECA	12.9	.5 m	0	11:47	N S <u>E</u> W	FU	GR	
	13.4	Leaving 20 SW		11:51	N S E W			Temperature ↓
LECA	14.4	26.0 m	1	11:59	N S <u>E</u> W	FU	GR	
	14.6	Started Raining		12:01	N S E W			
LECA	14.8	30.5 m	1	12:03	N S <u>E</u> W	FU	GR	
	14.8	Stopped Raining		12:06	N S E W			
	16.2	Crossed into 24		12:22	N S E W			
ANAM	18.0	~300 m	2	12:40	N S <u>E</u> W			
	19.1	END		12:48	N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

CIRCLE ONE:

CPER

PNG

Night 2

DATE (day-month-year)

13-7-99

OBSERVERS L. Hartley, N. Sneider, D. Smith, T. Smith, L. Lentz,

C.

WEATHER 60% cloud cover, mid 90's during day, warm evening, no wind

START TIME 21:24

END TIME 0155

INITIAL MILEAGE 142.546

END MILEAGE 142.565 (19.0 miles)

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
VUVE	1.12	—	1	21:26	N S <u>E</u> W	MS	GR	
anam	1.15	—	5	21:36	N S <u>E</u> W	FU	GR	
VUVE	.7	—	1	21:38	N S <u>E</u> W	FU	GR	
	.9			21:41	N S E W			aspm+high and catina
leca	1.65	23	1	21:53	N S E <u>W</u>	FU	GR	
syau	1.90	00	1	21:58	N S E <u>W</u>	SW	GR	near catina guard between Ser. 15+11
	2:00			22:00	N S E W			a lot of PST E
	2.20			22:02	N S E W			sky clearing
leto	2.30	3	3	22:03	<u>N</u> S E W	FL	GR	juveniles
dior	2.60	00	1	22:10	N S <u>E</u> W	MS	GR	near cattle wind break
buwo	2.70	00	1	22:12	N S <u>E</u> W	MS	GR	large toad
dior	3.20	00	1	22:19	<u>N</u> S E W	MS	MX/YU	near ridge top above owl creek
syau	3.45	5	1	22:22	N S <u>E</u> W	RG	YU	on ridge above owl creek
	3.80			22:27	N S E W			crossed owl creek
dior	4.1	00	1	22:31	N S <u>E</u> W	FL	AC	
leca	4.1	46	1	22:31	N S <u>E</u> W	FL	AC	
leca	4.75	20	1	22:43	N S <u>E</u> W	FU	AC	just before ARS entrance
leca	4.8	46	1	22:49	N S <u>E</u> W	FU	MX/WR	

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

23 Total

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) 13-7-99OBSERVERS L. Hartley, N. Sneider, D. Smith, T. Smith, L. Lentz, C.WEATHER 60% cloud cover, mid 90's during day, warm evening, no windSTART TIME 21:24 END TIME 01:55INITIAL MILEAGE 142546 END MILEAGE 142565 (19.0 miles)

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
Syau	5.0	15	1	22:51	N S <u>W</u>	FU	HU	ARS entrance visible
	5.1			22:53	N S E W			cross ARS entrance
	5.25			22:56	N S E W			onto road 37
leca	5.55	24.5	1	22:58	N S E <u>W</u>	FU	MX w/AC	on city rd 37
leca	6.5	21.5	1	23:07	N S E <u>W</u>	FL	MX w/AC	
leca	6.5	27	1	23:09	N S E <u>W</u>	MS	MX w/AC	
leca	6.5	12.5	1	23:09	N S E <u>W</u>	MS	MX w/AC	+HU
			2	23:12	N S E W			stopped for car
aram	6.75	—	3	23:16	N S E <u>W</u>	MS	MX w/AC	+HU dog w/ owner
dior	7.1	00	1	23:18	N S E <u>W</u>	FU	MX w/AC	
	7.2			23:19	N S E W			city rd 37 + 122 intersection
	8.1			23:26	N S E W			turn into section 5 off city rd.
did	8.2	00	1	23:29	N S <u>W</u>	FL	MX w/AC	
dior	8.3	00	1	23:30	N S <u>W</u>	FL	MX w/AC	
	9.15			23:41	N S E W			passed creek about 100 ft
leca	9.3	1	1	23:43	N S E <u>W</u>	FL	GR	
leca	9.8	10	1	23:50	N S E <u>W</u>	FL	GR	
OWL	10.4	—	1	00:04	N <u>S</u> E W	FU	GR/AC	

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: (CPER) PNGDATE (day-month-year) 13-7-99OBSERVERS L. Hartley, N. Sneider, D. Smith, T. Smith, L. Lentz, C.WEATHER wild increasing throughout, sky clearing from 60% to 20% during night
START TIME 21:24 END TIME 0155
INITIAL MILEAGE 142546 END MILEAGE 142565 (19.0 miles)

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
ANAM	10.6	—	13	00:08	N S <u>(E)</u> W	FU	GR	
ANAM	10.6	—	1	00:10	N S E <u>(W)</u>	FU	GR	fawn
DIOR	11.1	0.0	1	00:16	N S <u>(E)</u> W	FU	GR	
	11.7	very high	STCD		N S E W			
SWHA	12.3	—	1	0028	N S E W			
					N S E W			
	13.0	Turning onto 114			N S E W			
- SYAU	13.6	26.5	3	0043	N S <u>(E)</u> W	FU ^{mix w/ ATCA}	GR	
CALA	14.4	—	1	0050	N S <u>(E)</u> W	FU	GR	
	14.5				N S E W			turned off 114 into site 25
- SYAU	15.0	19.0	1	0101	N S <u>(E)</u> W	MS	HU	
- SYAU	15.2	1.0	1	0106	N S <u>(E)</u> W	MS	MX ^{su}	
- LETO	15.5	25.0	1	0111	N S <u>(E)</u> W	FU	GR	
	16.1			0118	N S E W			enter 24 ^{cross 114}
unidenti- fied mammal	16:2	out of range		01124	N S <u>(E)</u> W			
not cow or antelope					N S E W			
- LECA	17.3	55.0	1	0135	N S E <u>(W)</u>	FU	GR	
Jackrabbit	18.0	out of range ~200m	2	0148	N S <u>(E)</u> W	FU	GR	

(18 rows)

Topography codes:

FU flat upland
FL flat lowland
MS midslopeRG ridgetop
SW swale
CR creek drainage

Vegetation codes:

AC saltbush
YU yucca
MX mixed grassland (w/AC or YU)
GR grassland
HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) 14 Jan 99OBSERVERS MOB, D. Smith, T. James, M. Andre, P. BullockWEATHER ClearSTART TIME 1745END TIME 2145INITIAL MILEAGE 0END MILEAGE 18.3

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LETO	.35	26	1	1754	N S <u>E</u> W	FU	GR	SA
LECA	1.45	65	1	1805	N S <u>E</u> W	FL	GR	
PRONGHORN	1.8		10		N S <u>E</u> W	FU	GR	
LETO	1.85	64	1	1815	<u>N</u> S E W	FU	GR	
LETO	2.0	38	1	1817	N S <u>E</u> W	FU	GR	
Kangaroo Rat	4.25			1848	N S <u>E</u> W	CR	AC	
Grasshopper mouse	4.5		1	1851	N S <u>E</u> W	MR	AC	
LECA	4.9	10	1	1858	N <u>S</u> E W	FU	AG	
unknown jack rabbit	5.25	11.2	1	1903	N S E <u>W</u>	FU	AC	possible LECA?
LECA	8.15	87	2	1924	N <u>S</u> E W	FL	GR	
LECA	8.13	80	1	1928	<u>N</u> S E W	FU	GR	agricultural field
LECA	8.85	62	1	1938	N S <u>E</u> W	FU	AC	
LECA	8.85	95	1	1938	N S <u>E</u> W	FU	AC	
VUVE	10.70		1		N S <u>E</u> W	FU	GR	
VUVE	12.1		2	2042	N S <u>E</u> W	FU	GR	
SYAU	13.3	38.5	1	2052	N <u>S</u> E W	FU MX		
SYAU	14.75	14.0	1	2106	N <u>S</u> E W	FU	HU	not East Wayne county
LETO	17.20	72.0	2	2136	N S <u>E</u> W	FU	GR	

(18 rows)

Topography codes:

FU flat upland

RG ridgetop

Vegetation codes:

AC saltbush

GR grassland

**SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count**

CIRCLE ONE: CPER PNGDATE (day-month-year) 4/15/99OBSERVERS DAVID, DAVID, MARK, NICOLE, LAURELWEATHER CLOUDY, WINDY, SNOWY (FLURRIES)START TIME 8:25

END TIME _____

INITIAL MILEAGE 0

END MILEAGE _____

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	.75	0	1	8:34	N S <u>E</u> W	MS	GR	
MEME	1.15	—	1	8:37	N S <u>E</u> W	FU	GR	LOCATED IN YUCCA BUSH
MEME	1.70	—	1	8:45	N S <u>E</u> W	FL	GR	
LETO	2.5	0	1	8:52	<u>N</u> S E W	FU	GR	
ANAM	2.75	—	4	8:55	N S <u>E</u> W	FL	GR	
ANAM	3.30	—	6	9:00	<u>N</u> S E W	FU	GR	
LETO	3.55	0	1	9:03	N S E <u>W</u>	FU	MX (YU)	
LECA	3.90	26m	1	9:08	N S <u>E</u> W	MS	MX (YU)	
LECA	4.65	31m	1	9:18	N S E <u>W</u>	FU	MX (AC)	
SYAU	5.6	12m	1	9:29	N <u>S</u> E W	FL	HU	
LECA	7.16	0	2	9:45	N S <u>E</u> W	FU	MX (AC)	
LECA	8.35	77m	1	9:51	<u>N</u> S E W	FU	MX (X)	
LECA	8.5	0	1	9:55	N <u>S</u> E W	FU	MX (AC)	
TIAL	8.5	—	1	9:57	<u>N</u> S E W	FU	MX (AC)	
LECA	8.6	80m	1	9:58	<u>N</u> S E W	FU	ALFALFA	
LECA	9.7	108m	1	10:12	N <u>S</u> E W	FU	MX (AC)	
CALA	9.95	—	1	10:19	N <u>S</u> E W	FU	Mix (AC)	
LECA	10.25	37 1/2 m	1	10:23	<u>N</u> S E W	FU	mix (AC) (HU)	Buff pens

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

**SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count**

CIRCLE ONE: CPER PNGDATE (day-month-year) April 15OBSERVERS Dave S, Dave H, Mark L, Nicole S, Laurel H

WEATHER _____

START TIME _____

END TIME 12:10 a.m.

INITIAL MILEAGE _____

END MILEAGE 19.9

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	10.35	69	1	10:26	N <u>S</u> E W	FU	mix	(AC) (HU)
SYAU?	10.35	55	1	10:26	N <u>S</u> E W	FU	mix	(AC) (HU)
LECA	12.0	32.5	1	10:48	N <u>S</u> E W	FU	GR	
LETO	12.1	20	1	10:51	N <u>S</u> E W	FU	GR	
LECA	12.5	0.0	1	10:55	N <u>S</u> E W	FU	GR	(att. legume f.)
LECA	12.55	19.0	1	10:58	N <u>S</u> E W	FU	GR	(att. legume f.)
VIVE	12.25	—	1	11:15	N <u>S</u> E W	FU	GR	
LECA	13.35	70.0	1	11:05	N <u>S</u> E W	FU	GR	
LEP?	15.0	55.5	1	11:19	N <u>S</u> E W	FU	GR	
LETO	15.25	0	1	11:26	N <u>S</u> E W	FU	GR	
ANAM	16.6	—	8	11:45	N <u>S</u> E W	FU	GR	
LEP?	17.55	23	1	11:51	N <u>S</u> E W	FU	GR	
ANAM	17.85	—	1	11:57	N <u>S</u> E W	FU	GR	
SYAU	18.8	17.5	1	12:04	N <u>S</u> E W	FU	GR	
					N <u>S</u> E W			
					N <u>S</u> E W			
					N <u>S</u> E W			
					N <u>S</u> E W			

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

14 Jan 1999

Rabbits.SHT: P. Stapp, 4/98

PAGE 1 OF 1

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

CIRCLE ONE:

CPER

PNG

DATE (day-month-year) 14 Jan 99

OBSERVERS MOL, D. Smith, T. James, M. Andre, P.

WEATHER Clear

START TIME 1745

END TIME 2145

INITIAL MILEAGE 0

END MILEAGE 18.3

Duplicate

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LETO	.35	26	1	1754	N S <u>W</u>	FU	GR	SA
LECA	1.45	65	1	1805	N S <u>W</u>	FL	GR	
PRONGHORN	1.8		10		N S <u>W</u>	FU	GR	
LETO	1.85	64	1	1815	N S <u>W</u>	FU	GR	
LETO	2.0	38	1	1817	N S <u>W</u>	FU	GR	
Kangaroo Rat	4.25			1848	N S <u>W</u>	CR	AC	
Grasshopper mouse	4.5		1	1851	N S <u>W</u>	MS	AC	
LECA	4.9	10	1	1858	N S <u>W</u>	FU	AG	
unknown jack rabbit	5.25	11.2	1	1903	N S <u>W</u>	FU	AC	possible LECA?
LECA	8.15	87	2	1924	N S <u>W</u>	FL	GR	
LECA	8.13	80	1	1928	N S <u>W</u>	FU	GR	agricultural field
LECA	8.85	62	1	1938	N S <u>W</u>	FU	AC	
LECA	8.85	95	1	1938	N S <u>W</u>	FU	AC	
VUVE	10.70		1		N S <u>W</u>	FU	GR	
VUVE	12.1		2	2042	N S <u>W</u>	FU	GR	
SYAU	13.3	38.5	1	2052	N S <u>W</u>	FLX	MX	
SYAU	14.75	14.0	1	2106	N S <u>W</u>	FU	HU	off east Wayne county
LETO	17.20	72.0	2	2136	N S <u>W</u>	FU	GR	

(18 rows)

Topography codes:

FU flat upland

RG ridgetop

Vegetation codes:

AC saltbush

GR grassland

April 1999

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) 4/15/99OBSERVERS DAVID, DAVID, MARK, NICOLE, LAURELWEATHER CLOUDY, WINDY, SNOWY (FLURRIES)START TIME 8:25 END TIME INITIAL MILEAGE 0 END MILEAGE

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	.75	0	1	8:34	N S <u>E</u> W	MS	GR	
MEME	1.15	—	1	8:37	N S <u>E</u> W	FU	GR	LOCATED IN YUCCA BUSH
MEME	1.70	—	1	8:45	N S <u>E</u> W	FL	GR	
LETO	2.5	0	1	8:52	<u>N</u> S E W	FU	GR	
ANAM	2.75	—	4	8:55	N S <u>E</u> W	FL	GR	
ANAM	3.30	—	10	9:00	<u>N</u> S E W	FU	GR	
LETO	3.55	0	1	9:03	N S E <u>W</u>	FU	MX (YU)	
LECA	3.90	24m	1	9:08	N S <u>E</u> W	MS	MX (YU)	
LECA	4.65	31m	1	9:18	N S E <u>W</u>	FU	MX (AC)	
SYAU	5.6	12m	1	9:29	N <u>S</u> E W	FL	HU	
LECA	7.16	0	2	9:45	N S <u>E</u> W	FU	MX (AC)	
LECA	8.35	77m	1	9:57	<u>N</u> S E W	FU	MX (X)	
LECA	8.5	0	1	9:55	N (<u>S</u>) E W	FU	MX (AC)	
TIAL	8.5	—	1	9:57	<u>N</u> S E W	FU	MX (CH)	
LECA	8.6	80m	1	9:58	<u>N</u> S E W	FU	ALFA	
LECA	9.7	108m	1	10:12	N <u>S</u> E W	FU	MX (AC)	
CALA	9.95	—	1	10:19	N (<u>S</u>) E W	FU	Mix (AC)	
LECA	10.25	37 1/2 m	1	10:23	<u>N</u> S E W	FU	mix (AC) (HU)	Buff pens

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) April 15OBSERVERS Dave S, Dave H, Mark L, Nicole S, Laurel H

WEATHER

START TIME _____ END TIME 12:10 a.m.INITIAL MILEAGE _____ END MILEAGE 19.4

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	10.35	69	1	10:26	N <u>S</u> E W	FU	Mix	(AC) (HU)
SYAU?	10.35	55	1	10:26	N <u>S</u> E W	FU	Mix	(AC) (HU)
LECA	12.0	32.5	1	10:48	N S <u>E</u> W	FU	G.R.	
LETO	12.1	20	1	10:51	N S <u>E</u> W	FU	GR	
LECA	12.5	0.0	1	10:55	N <u>S</u> E W	FU	SR	(Salt-tolerant)
LECA	12.55	19.0	1	10:58	N S <u>E</u> W	FU	SR	(Salt-tolerant)
VIVE	12.25	—	1	11:15	N S <u>E</u> W	FU	GR	
LECA	13.35	70.0	1	11:05	N S <u>E</u> W	FU	GR	
LEP?	15.0	55.5	1	11:19	N S E <u>W</u>	FU	GR	
LETO	15.25	0	1	11:26	N S E <u>W</u>	FU	GR	
ANIAM	16.6	—	8	11:43	N S E W	FU	GR	
LEP?	17.55	23	1	11:51	N <u>S</u> E W	FU	GR	
ANIAM	17.85	—	1	11:57	N S E W	FU	GR	
SYAU	18.8	17 1/2	1	12:04	N <u>S</u> E W	FU	GR	
					N S E W			
					N S E W			
					N S E W			
					N S E W			

(18 rows)

Topography codes:FU flat upland
FL flat lowland
MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

July 13 1999

Night 2

Rabbits.SHT: P. Stapp, 4/98

PAGE 1 OF 3

SGS-LTER Long-Term Monitoring Project Spotlight Rabbit Count

CIRCLE ONE: CPER PNG

Night 2

DATE (day-month-year) 13-7-99

OBSERVERS L. Hartley, N. Sneider, D. Smith, T. Smith, L. Lentz,
C.

WEATHER 60% cloud cover, mid 90's during day, warm evening, no wind

START TIME 21:24 END TIME 0155

INITIAL MILEAGE 142546 END MILEAGE 142565 (19.0 miles)

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
vuv	1.25	—	1	21:26	N S <u>E</u> W	MS	GR	
anam	1.5	—	5	21:36	N S <u>E</u> W	FU	GR	
vuv	.7	—	1	21:38	N S <u>E</u> W	FU	GR	
	.9			21:41	N S E W			adsm-high and catina
- leca	1.65	23	1	21:53	N S E <u>W</u>	FU	GR	
- syau	1.90	00	1	21:58	N S E <u>W</u>	SW	GR	near catina guard between ser. 15+11
	2:00			22:00	N S E W			a lot of PST E
	2.20			22:02	N S E W			sky clearing
- leto	2.30	3	3	22:03	<u>N</u> S E W	FL	GR	juvenils
dior	2.60	00	1	22:10	N S <u>E</u> W	MS	GR	near cattle wind break
buwo	2.70	00	1	22:12	N S <u>E</u> W	MS	GR	large toad
dior	3.20	00	1	22:19	<u>N</u> S E W	MS	MX/YU	near ridgetop above owl creek
- syau	3.45	5	1	22:22	N S <u>E</u> W	RG	YU	on ridge above owl creek
	3.80			22:27	N S E W			crossed owl creek
dior	4.1	00	1	22:31	N S <u>E</u> W	FL	AC	
- leca	4.1	46	1	22:31	N S <u>E</u> W	FL	AC	
- leca	4.75	20	1	22:43	N S <u>E</u> W	FU	AC	just before AKS entrance
- leca	4.8	46	1	22:49	N S <u>E</u> W	FU	MX/AC	

(18 rows)

Topography codes:

FU flat upland
FL flat lowland
MS midslope
RG ridgetop
SW swale
CR creek drainage

Vegetation codes:

AC saltbush
YU yucca
MX mixed grassland (w/AC or YU)
GR grassland
HU human structure (<30 m)

23 Total

**SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count**

CIRCLE ONE: CPER PNGDATE (day-month-year) 13-7-99OBSERVERS L. Hartley, N. Snedden, D. Smith, T. Smith, L. Lentz, C.WEATHER 100% cloud cover, mid 90's during day, warming up, no windSTART TIME 21:24 END TIME 01:55INITIAL MILEAGE 142546 END MILEAGE 142565 (19.0 miles)

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
Syau	5.0	15	1	22:51	N S <u>W</u>	FU	HU	ARS entrance visible
	5.1			22:53	N S E W			cross ARS entrance
	5.25			22:56	N S E W			onto road 37
leca	5.55	24.5	1	22:58	N S E <u>W</u>	FU	MX w/AC	on rd 37
leca	6.5	21.5	1	23:07	N S E <u>W</u>	FL	MX w/AC	
leca	6.5	27	1	23:09	N S E <u>W</u>	MS	MX w/AC	
leca	6.5	12.5	1	23:09	N S E <u>W</u>	MS	MX w/AC	+HU
			2	23:12	N S E W			stopped for car
aram	6.75	—	3	23:16	N S E <u>W</u>	MS	MX w/AC	+HU dog w/ four
dior	7.1	00	1	23:18	N S E <u>W</u>	FU	MX w/AC	
	7.2			23:19	N S E W			rd 37 + 122 junction
	8.1			23:26	N S E W			turn into section 5 off rd.
did	8.2	00	1	23:29	N S E <u>W</u>	FL	MX w/AC	
dior	8.3	00	1	23:30	N S E <u>W</u>	FL	MX w/AC	
	9.15			23:41	N S E W			passed cross street
leca	9.3	1	1	23:43	N S E <u>W</u>	FL	GR	
leca	9.8	10	1	23:50	N S E <u>W</u>	FL	GR	
OWL	10.4	—	1	00:04	N <u>S</u> E W	FU	GR w/AC	

(18 rows)

Topography codes:

FU flat upland
FL flat lowland
MS midslope
RG ridgetop
SW swale
CR creek drainage

Vegetation codes:

AC saltbush
YU yucca
MX mixed grassland (w/AC or YU)
GR grassland
HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) 13-7-99OBSERVERS L. Hartley, N. Sneider, D. Smith, T. Smith, L. Lentz, C.WEATHER wild increasing throughout, sky clearing from 60% to 20% during night
START TIME 21:24 END TIME 0155
INITIAL MILEAGE 142546 END MILEAGE 142565 (19.0 miles)

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
ANAM	10.6	—	13	00:08	N S <u>E</u> W	FU	GR	
ANAM	10.6	—	1	00:10	N S E <u>W</u>	FU	GR	fawn
DIOR	11.1	0.0	1	00:16	N S <u>E</u> W	FU	GR	
	11.7	very high	STCD		N S E W			
FEHA	12.3	—	1	0028	N S E W			
					N S E W			
	13.0	Turning onto 114			N S E W			
SYAU	13.6	26.5	3	0043	N S <u>E</u> W	FU ^{mix w/ ATCA}	GR	
ALA	14.4	—	1	0050	N S <u>E</u> W	FU	GR	
	14.5				N S E W			turned off 114 into site 25
SYAU	15.0	19.0	1	0101	N S <u>E</u> W	MS	HU	
SYAU	15.2	2.0	1	0106	N S <u>E</u> W	MS	MX ^W	
LETO	15.5	25.0	1	0111	N S <u>E</u> W	FU	GR	
	16.1			0118	N S E W			enter 24 cross 114
unidenti- fied mammal	16.2	out of range		0124	N S <u>E</u> W			
not cow or antelope					N S E W			
LECA	17.3	55.0	1	0135	N S E <u>W</u>	FU	GR	
Jackrabbit	18.0	out of range ~200m	2	0148	N S <u>E</u> W	FU	GR	

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

14 July 1999

Night 3

Rabbits.SHT: P. Stapp, 4/98

PAGE 1 OF 3

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

CIRCLE ONE:

CPER

PNG

DATE (day-month-year) 14 - July - 1999

OBSERVERS M. Lindquist, L. Hartley, D. Leiker, S. Quinlivan, C. Farley

WEATHER 90% cloud cover, seasonably warm

START TIME 9:12 PM

END TIME 12:48 AM

INITIAL MILEAGE 21455

END MILEAGE 26648

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
VUVE	0.2	—	2	9:15	N S <u>W</u>	RG	GR	trip meter off by 2m
LETO	0.5	1m	1	9:21	N S E <u>W</u>	MS	GR	
VUVE	1.6	—	2	9:35	<u>N</u> S E W	RG	GR	
ANAM	1.9	—	5	9:37	N <u>S</u> E W	FU	GR	
DIOR	3	—	1	9:51	N S E W	FU	GR	on road
MIOQ	3.3	—	1	9:54	N S E W	FU	GR	on road
SYAU	4.0	on road	1	10:04	N S E W	SW	YU/MX	on road
Drizzling 9:45 →					N S E W			
LECA	4.1	15m	1	10:05	<u>N</u> S E W	MS	GR	
LECA	4.3	3m	1	10:10	<u>N</u> S E W	FU	AC/MX	
LECA	4.4	12.5m	1	10:11	N <u>S</u> E W	FU	AC/MX	Subadult
LECA	4.4	21m	1	10:11	N <u>S</u> E W	FU	AC/MX	Subadult
LECA	4.5	1m	1	10:15	<u>N</u> S E W	FU	AC/MX	near owl CR EXCL.
SYAU	4.7	0	1	10:17	N S E W	FU	AC/MX	on road
SYAU	4.7	1m	1	10:18	<u>N</u> S E W	FU	AC/MX	
LECA	5.1	31m	1	10:22	N <u>S</u> E W	MS	AC/MX	
LECA	5.2	43m	1	10:24	N <u>S</u> E <u>W</u>	FU	AC/MX	
	5.4	through ARS		10:26	N S E W			

(18 rows)

Topography codes:

FU flat upland
FL flat lowland
MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

24.8
45.5
19.3still
drizz
ing

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

CIRCLE ONE:

CPER

PNG

DATE (day-month-year) 14 - July - 1999OBSERVERS M. Lindquist, L. Hartley, D. Leiker, S. Quinlivan, C. Farley

WEATHER

START TIME

INITIAL MILEAGE

END TIME

END MILEAGE

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
ODHE	5.8	—	2	10:29	N S E <u>W</u>	FU	clover	
LECA	6.6	21m	1	10:34	N S E <u>W</u>	FU	AC/MX	
LECA	6.7	41.5m	1	10:36	N S <u>E</u> W	FU	AC/MX	
	10:38	raining slightly harder			N S E W			
LECA	6.9	18m	1	10:39	N S E <u>W</u>	FU	AC/MX	
LECA	6.9	0.0	1	10:40	N S E W	FU	AC/MX	Subadult on road
LECA	7.5	40m	1	10:44	N S <u>E</u> W	FU	AC/MX	
	Enter	Road	122	10:46	N S E W			
LECA	7.7	0.0	1	10:47	N S E W	FU	AC-YU	
LECA	8.0	49m	1	10:49	<u>N</u> S E W	FU	GR	rain decreasing
LECA	8.0	53.5m	1	10:51	N <u>S</u> E W	FU	GR	
LECA	8.2	56m	1	10:54	<u>N</u> S E W	FU	irrigated cropland	
	Rain	increasing		10:56	N S E W			
	8.5	Enter	5	10:58	N S E W			
DIOR	8.6		1	10:59	N S E W	FU	MX/AC	
SYAU	8.8	6.5m	1	11:01	<u>N</u> S E W	FU	MX/AC	
ANAM	9.6		1	11:09	N S E <u>W</u>	FU	GR	
	Rain	slowing		11:23	N S E W			

(18 rows)

Topography codes:

FU flat upland
FL flat lowland
MS midslopeRG ridgetop
SW swale
CR creek drainage

Vegetation codes:

AC saltbush
YU yucca
GR grassland
HU human structure (<30 m)
MX mixed grassland (w/AC or YU)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) 14-July-1999OBSERVERS m. Lindquist, L. Hartley, D. Leiker, S. Quinlivan, C. Farley

WEATHER _____

START TIME _____

END TIME 12:48 Am

INITIAL MILEAGE _____

END MILEAGE 26648

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
	11.4	Stopped Raining		11:30	N S E W			
	11.8	Stipa Comata very tall		11:34	N S E W			
LECA	12.8	7.5 m	1	11:44	N S E W	FU	GR	100m from Windmill
LECA	12.9	.5 m	0	11:47	N S E W	FU	GR	
	13.4	Leaving 20 SW		11:51	N S E W			Temperature ↓
LECA	14.4	26.0 m	1	11:59	N S E W	FU	GR	
	14.6	Started Raining		12:01	N S E W			
LECA	14.8	30.5 m	1	12:03	N S E W	FU	GR	
	14.8	Stopped Raining		12:06	N S E W			
	16.2	Crossed into 24		12:22	N S E W			
ANAM	18.0	~300 m	2	12:40	N S E W			
	19.1	END		12:48	N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

July 12 1999

Rabbits.SHT: P. Stapp, 4/98

PAGE 1 OF 3

Night 1

SGS-LTER Long-Term Monitoring Project Spotlight Rabbit Count

CIRCLE ONE: CPER PNG

*record landmarks
ea. night.

DATE (day-month-year) 12 July 99

OBSERVERS P. Stapp, MDL, K. McLow, D. Hannig, L. Leutz, Seth Cullins,
Nicole Schneider, Caleb Rothmacher

WEATHER Clear - no wind - 0% cloud cover

START TIME 21:23

END TIME 0109

INITIAL MILEAGE 0.00

END MILEAGE 13.7

*veg very high
*a lot of pste & high
AGSM

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
VUVE	0.1	/	1	21:27	N S <u>(E)</u> W	RG	GR	
VUVE	0.2	/	1	21:27	N S <u>(E)</u> W	RG	GR	
LECA	0.85	150m	3	21:33	N S <u>(E)</u> W	MS	GR	
ANAM	1.0	/	1	21:35	N S E <u>(W)</u>	RG	GR	
ANAM	1.2	/	1	21:36	N S E <u>(W)</u>	RG	GR	
VUVE	1.65	/	3	21:41	N S E <u>(W)</u>	RG	MX/AC	
ANAM	2.10	/	2+	21:46	N S <u>(E)</u> W	RG	GR	
DIOR	3.05	0.0	1	21:56	N <u>(S)</u> E W	RG	GR	on road
ANAM	3.10	/	1	21:57	N <u>(S)</u> E W	RG	GR	crossed road
DIOR	3.20	0.0	1	21:58	N S <u>(E)</u> W	MS	GR	on road
DIOR	3.70	0.0	1	22:03	<u>(N)</u> S E W	MS	MX/AC	on road
SYAU	3.80	4.00m	1	22:05	N S <u>(E)</u> W	RG	YU	on top of yucca ridge at owl creek
SYAU	3.85	7.50m	1	22:06	N <u>(S)</u> E W	RG	YU	
SYAU	3.90	5.00m	1	22:08	<u>(N)</u> S E W	MS	YU	toward o.c
BUNO	4.0	0.0	1	22:10	<u>(N)</u> S E W	MS	YU	woodhouse on road
ODHE	4.2	/	1	22:13	N <u>(S)</u> E W	CR	YU	mule deer in drainage
DIOR	4.4	0.0	1	22:15	N S <u>(E)</u> W	FL	MX/AC	on road
LECA	4.5	13.5	1	22:16	<u>(N)</u> S E W	FL	MX/AC	

(18 rows)

Topography codes:

FU flat upland
FL flat lowland
MS midslope

RG ridgetop
SW swale
CR creek drainage

Vegetation codes:

AC saltbush
YU yucca
MX mixed grassland (w/AC or YU)
GR grassland
HU human structure (<30 m)

22 TOTAL

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) 12 July 1999OBSERVERS P. Stapp, M. Lindquist, K McCleave, W. Snelder, S. Calkins, L. LentzWEATHER Clear - no wind - 0% cloud coverSTART TIME END TIME INITIAL MILEAGE END MILEAGE

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
DIOR	4.60	0.0	1	22:20	N S <u>E</u> W	FL	MX/AC	on road
- LECA	5.25	10.00m	1	22:26	N <u>S</u> E W	FL	MX/AC	
- LECA	5.80	21.00m	1	22:28	N <u>S</u> E W	FL	MX/AC	
- SYAU	5.35	6.00m	2	22:29	N <u>S</u> E W	FL	MX/AC	Near AES company to the west of car
BUOW	5.50	0.0	1	22:32	N <u>S</u> E W	HU	Parking lot	in mud puddle in front of AES office
- LECA	6.75	24.50m	1	22:43	N S E <u>W</u>	FU	MX/AC	w of 37.
- LECA	6.85	31.50m	1	22:47	N S <u>E</u> W	CR	MX/AC	
- SYAU	7.05	18.50m	1	22:50	N S <u>E</u> W	FU	MX/AC	
- LECA	7.40	14.50m	1	22:55	N S <u>E</u> W	RG	MX/AC	corner of 37 & 122 top of hill before YU
DIOR	8.70	0.0 ^{on} road	1	23:11	N <u>S</u> E W	FL	MX/AC	*turned off 122 @ 8.35 mi
- LECA	9.20	9.50m	1	23:15	N S E <u>W</u>	FU	MX/AC	by Crested wheat plantings & fence line.
- LECA	10.00	550m	1	23:26	N <u>S</u> E W	FU	MX/AC	By windmill & Corvairs
ANAM	10.70	—	5	23:34	N S <u>E</u> W	MS	MX/AC	
- LECA	11.90	2.00m	1	23:48	N S <u>E</u> W	FU	GR	STCO VERY TALL
CALA	12.60	200m	1	23:57	N S <u>E</u> W	FU	GR	STOCK TANK - FEL LOTS OF HIGH STCO
- LECA	14.40	44.00m	1	00:14	N S <u>E</u> W	FU	GR	turning onto 114 west
^{7.4 N 4.7 M} ^{1.0 N 4.7 M} - LECA	14.40	200m	1	00:18	N <u>S</u> E W	FU		lots of sweet clover
- LECA	14.50	44.00m	1	00:20	N <u>S</u> E W	FU		

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

**SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count**

CIRCLE ONE: CPER PNGDATE (day-month-year) 12 July 1999

OBSERVERS _____

WEATHER _____

START TIME _____

END TIME 0109

INITIAL MILEAGE _____

END MILEAGE 18.7

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LETO	15.5	92m	1	0036	N S <u>(E)</u> W	FU	GR	
Unknown Lepus	16.2	300m	1	0047	N S <u>(E)</u> W	SW	GR	
ANAM	17.5	300m	2	0057	N S <u>(E)</u> W	FL	GR	
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

07 Oct 1999

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) 07 Oct. 1999OBSERVERS M.D. Lindquist, L. Hartley, N.E. Sneider, DAVID HANWY,SARAH QUINLIVINWEATHER PARTLY CLOUDYSTART TIME 1919END TIME 23:32INITIAL MILEAGE 0END MILEAGE 18.95

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	.85	26	1	1928	N S <u>EW</u>	MS	GR	
LETO	.9	50	1	1934	N S <u>EW</u>	MS	GR	NEAR CATTLE GRASS
LETO	1.5	0	1	1941	<u>N</u> S E W	FL	GR	CATTLE GRASS
LETO	1.6	20.5	1	1942	<u>N</u> S E W	FL	GR	
LECA	2.2	23.5	1	1951	N S <u>EW</u>	RG	GR	
SYAU	2.3	8	1	1954	N S <u>EW</u>	MS	GR	NEAR WINDMILL 200m
ANAM	2.5	—	5	1958	N <u>S</u> E W	MS	GR	
MUSTEA	2.85	—	1	2004	<u>N</u> S E W	MS	GR	
LECA	3.4	10.5	1	2010	N S <u>EW</u>	MS	GR	
LECA	3.5	4.5	1	2011	N S <u>EW</u>	MS	GR	NEAR CATTLE GRASS
SYAU	3.8	0	1	2016	N S <u>EW</u>	MS	GR	
DIOX	3.8	0	1	2016	N S <u>EW</u>	MS	GR	
SYAU	3.9	7	1	2018	N S <u>EW</u>	RG	YU	CATTLE GRASS
SYAU	4.1	0	1	2022	<u>N</u> S E W	MS	SW	
LECA	4.3	14.5	1	2026	N S E <u>W</u>	CR	GR	
SYAU	4.5	0	1	2028	<u>N</u> S E W	FL	CR	
SYAU	4.6	13	1	2031	N <u>S</u> E W	FL	MX	CATTLE GRASS
LECA	4.6	21.5	1		N <u>S</u> E W	FL	MX	CATTLE GRASS

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) 07 OCTOBSERVERS MDL, LH, NES, SCR, DJHWEATHER PARTLY CLOUDYSTART TIME 1919END TIME 23:32INITIAL MILEAGE 0END MILEAGE 18.95

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	4.8	2	1	2040	N S <u>EW</u>	FL	MX	
LECA	4.8	29.	1	2041	N S <u>EW</u>	FL	MX	
CALA	5.0	—	2	2046	<u>N</u> S E W	FL	AC	
SYAU	5.4	15	1	2050	<u>N</u> S E W	FL	HU	BY ARS
ANAM	8.0	—	6	2115	N <u>S</u> E W	FL	YU	
YUVE	8.1	—	2	2115	N <u>S</u> E W	FL	YU	
LECA	8.3	30.5	2	2116	<u>N</u> S E W	FL	ALFALFA FIELD	
DION	8.3	—	1	2116	<u>N</u> S E W	FL	IN ROAD	
LECA	8.45	17.	2	2120	N <u>S</u> E W	FL	MX	
SYAU	8.8	0	1	2127	N S <u>EW</u>	FL	MX	
LECA	8.85	0	1	2130	N <u>S</u> E W	FL	MX	JUVY
PEMA	9.0	0	1	2131	N S <u>EW</u>	FL	MX	
SYAU	9.25	9	1	2134	N S E <u>W</u>	FL	MX	SNOW FENCE STRUCTURES
ANAM	9.7	—	4	2139	N <u>S</u> E W	FL	GR	
SYAU	10.5	0	1	2152	N S E <u>W</u>	FL	GR	
LECA	11.8	0	1	2206	N <u>S</u> E W	FL	GR	
LECA	12.85	41.5	1	2225	N S E <u>W</u>	FL	GR	
LECA	13.7	26.5	1	2234	N <u>S</u> E W	FL	GR	

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

Vegetation codes:

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) 07 Oct 1999OBSERVERS M.D.L., L.H., N.E.S., D.H., S.Q.WEATHER Partly CloudySTART TIME 1919END TIME 23:32INITIAL MILEAGE 0END MILEAGE 18.95

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	14.6	18	1	2241	N S E W	FL	GR	
SYAU	15.1	15	1	2249	N S E W	FL	GR	
LETO	15.6	14	1	2250	N S E W	FL	GR	
LETO	15.8	0	1	2259	N S E W	FU	GR	ROAD
LETO	16.0	41.5	1	2303	N S E W	FL	GR	
LETO	16.5	2	1	2308	N S E W	FL	GR	
—	18.95	—	END	2332	N S E W	—	—	—
					N S E W			
					N S E W			
					N S E W			
					N S E W			
					N S E W			
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