

Project Summary Sheet – Year 2003

Project Name SGS-LTER Long-Term Monitoring Program Spotlight Rabbit Count

Project Number 98

Principal Investigator(s) Paul Stapp, Mark Lindquist

Dates of Data Collection April 03, 2003; July 02, 2003; October 07, 2003

Plot Names / Specific Location of study area(s) CPR transect (x20 miles)
for Rabbit & Carnivore Scat Counts.

Full Names of Data Collectors Mark Lindquist, Seth Katering, John Norman, Steve Blecker,
Jamie Weaver, Nicole Kaplan, Beth Grady, Adam Gaylord, Heather Walkerstoner

Names of Associated Files and Databases Ascalon\Projects\dataentry\AKS#98-
LT-Animal-Mon-Data\lagomorph\allag4-2.xls

Summary of Data Collected (How are data sheets organized? How many pages are in each section? etc.)

April 03, 2003 - Census (2 pages)

July 02, 2003 - Census (2 pages)

October 07, 2003 - Census (2 pages)

Questions and Concerns

* ~~Enter~~ data do not have names of observers entered in the column in excel. Do you want this info. in the digital dataset?

* Jan. 2003 sent 1/30/03

* January 2003 consisted of 3 dates!
(07, 08, 09 of January)

Date copies of data sheets were sent to PI(s) 18 Nov 2003

Date copies of data sheets were sent to SGS-LTER office Oct 2003

Names of any other persons given copies of data sheets

Nicole Kaplan (Im), Mark Lindquist

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

CIRCLE ONE: CPER PNG

SYAU - cotton tail
LETO - white
LECA - Black

DATE (day-month-year) 07 Jan 2003 NIGHT 1 & 3
OBSERVERS M. O'mara, M. Lindquist, N. Kaplan, M. Anderson
M. Dunfee
WEATHER warm, clear, slight breeze
START TIME 18:09 END TIME _____
INITIAL MILEAGE 0.00 END MILEAGE _____

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	0.25	59	2 (one)	18:12	N S E <u>W</u>	Rg	GR	
SYAU	0.35	50	2 (one)	18:14	N S <u>E</u> W	Rg	GR	
LETO	0.90	65.5	2	18:21	N S <u>E</u> W	SW	GR	
LETO	1.00	43.5	4 (four)	18:24	N S <u>E</u> W	MS	GR	Fena
LETO	1.45	73	1	18:30	N S <u>E</u> W	MS	MXAC	
LECA	2.30	45.5	1	18:42	N S <u>E</u> W	Rg	GR	windmill HUNWI
LETO	2.40	22.5	1	18:45	N S <u>E</u> W	MS	GR	
LETO	2.5	26	1	18:48	N S E <u>W</u>	MS	GR	
LETO	2.70	71.5	1	18:52	N S E <u>W</u>	MS	GR	
SYAU	5.70	60.0	1	19:21	N S E <u>W</u>	FL	GRAC	
LECA	5.70	60.0	1	19:21	N S E <u>W</u>	FL	GRAC	
SYAU	5.85	54.0	1	19:24	N <u>S</u> E W	FL	GRAC	HU ^{Corral}
SYAU	5.90	43.0	1	19:25	N <u>S</u> E W	FL	GRAC	HU ^{ARS} Jinky rd
LECA	6.2	0.0	1	19:30	N S <u>E</u> W	FL	GRAC	CR 34
LECA	9.10	19.0	1	19:44	N <u>S</u> E W	FL	GRAC	MANURE Algalga
LECA	9.70	13.5	1	19:53	N <u>S</u> E W	FL	GRAC	
VUVR	12.00	10.35	1	19:59	N S E W	—	—	
CALA	12.0	12.05	1	20:11	N S <u>E</u> W	—	—	

(18 rows)

Topography codes:

FU flat upland RG ridgetop AC saltbush GR grassland
FL flat lowland SW swale YU yucca HU human structure (<30 m)
MS midslope CR creek drainage MX mixed grassland (MXAC or MXYU)
HU human structure (<30 m): HUNWI windmill, HUBU bldg, HUCG cattle grd, HUNR not recorded
MX mixed grassland (w/AC or YU)

Vegetation codes:

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

SYAU - Cottontails

LETO - White

LECA - Black

CIRCLE ONE: CPER PNGDATE (day-month-year) 1/7/03OBSERVERS SEE PAGE 2WEATHER START TIME END TIME 21:24INITIAL MILEAGE END MILEAGE 20.67

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	13.50	63.5	1	20:22	N S E W	FU	GR	
LECA	13.65	32	2	20:25	N S E W	F4	GR	
LECA	13.75	35.5	1	20:28	N S E W	Fu	GR	
LECA	15.30	62.0	1	20:39	N S E W	FL	MX GRAC	
LETO	16.25	5.0	2	20:50	N S E W	MS	GR	
LETO	17.90	39.00	1	21:01	N S E W	Fu	GR	
LECA	19.35	23.5	1	21:10	N S E W	Fu	GR	
LETO	19.65	32.0	1	21:16	N S E W	Fu	GR	
LETO	19.80	40.0	1	21:20	N S E W	Fu	MX GRAC	
					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

RG ridgetop

AC saltbush

GR grassland

FL flat lowland

SW swale

YU yucca

HU human structure (<30 m)

MS midslope

CR creek drainage

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Vegetation codes:

SGS-LTER Long-Term Monitoring Project Spotlight Rabbit Count

NT - LETO
BT - LECA
CT - SYAU

CIRCLE ONE: CPER PNG

DATE (day-month-year) 1/8/2003

OBSERVERS Nicole K, John N, David J, Terry J, Matt D, Bob F

WEATHER Clear, High Today 63°, Light Breeze

START TIME 19:57 END TIME 21:54

INITIAL MILEAGE 0 END MILEAGE 20.6

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LETO	0.3	29	2	18:04	N S E W	FU	GR	
LETO	0.5	55	3	18:10	N S E W	MS	GR	
LECA	1.5	40	1	18:19	N S E W	SW	MXAC	
LECA	1.55	24	1	18:19	N S E W	SW	MXAC	
LETO	1.55	24	1	18:19	N S E W	SW	MXAC	
LECA	2.1	68	1	18:26	N S E W	FU	GR	
LECA	3.0	13.5	1	18:37	N S E W	FL	MXAC	
LETO	3.3	33	1	18:42	N S E W	MS	MXAC	
SYAU	4.3	4	1	19:02	N S E W	MS	YU	close proximity to owl
UNLOG	4.3	28.5	1	19:02	N S E W	MS	YU	HU - APS Jan. FILE
(Poreipine)	4.7		1	19:08	N S E W	CR	MXAC	
LETO	4.9	0	1	19:13	N S E W	FU	AC	
LESP	5.0	47	1	19:14	N S E W	FU	AC	
LECA	5.4	38	1	19:20	N S E W	FU	AC	
LECA	5.6	36	1	19:23	N S E W	MS	AC	
LESP	5.9	94	1	19:27	N S E W	FU	HUBU	
SYAU	5.9	20	1	19:27	N S E W	FU	HUBU	
LECA	7.7	43	1	19:42	N S E W	MS	MXAC	

(18 rows)

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Vegetation codes:

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

CIRCLE ONE: CPR PNG

DATE (day-month-year) 08 Jan 2003

OBSERVERS N. Kaplan, J. Norman, D. Smith, T. James, M. Dunfee, B. Flynn

WEATHER Clear, High Today 63°, Light Breeze

START TIME 19:57 END TIME 21:54

INITIAL MILEAGE 0 END MILEAGE 20.6

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	8.8	46	1	19:50	N S (E) W	FU	MXAC	
LECA	9.5	18	1	19:57	N S (E) W	FU	MXAC	
LECA	10.0	9	1	20:01	N S (E) W	FU	MXAC	
(VUVE)	10.4	18	1	20:06	N (S) E W	FL	GR	
LECA	12.4	29	1	20:30	N S E (W)	FL	GR	in CRP
LECA	13.3	21	1	20:35	N S E (W)	FL	GR	
LECA	14.2	41	1	20:45	N S E (W)	FL	GR	
LECA	14.4	29	1	20:50	N (S) E W	FL	AL	
LECA	14.7	78	1	20:55	N (S) E W	FL	AL	
(ANAM)			19	21:10	N S E W	---		---
LECA	18	0	1	21:15	(N) S E W	FL	GR	
LECA	18.7	39	1	21:30	N S E (W)	FL	HU	
LETO	19.6	106	1	21:45	N S E (W)	FL	GR	
	END				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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Vegetation codes:

GR grassland
 HU human structure (<30 m)

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

CIRCLE ONE: CPER PNG

DATE (day-month-year) 1/9/03

OBSERVERS Molly ANDERSON, Justin ISAACS, MARK Lindquist, Paul STAPP, Beth GRADY

WEATHER clear & cold

START TIME 6:10

END TIME 9:56

INITIAL MILEAGE 0

END MILEAGE 20.55

(22)

Night 3 of 3

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LETO	0.35	11.5	1	6:12	N S (E) W		GR	
LETO	0.55	35	1	6:17	N S E (W)	YU	GR	
LETO	1.0	10	1	6:22	N S E (W)		GR	
LETO	1.0	81	1	6:23	N S E (W)		GR	
LECA	1.95	0	1	6:35	N (S) E W		GR	In enclosure
LECA	1.95	40.5	1	6:35	(N) S E W		MX	
SYAU	3.25	65	1	6:50	(N) S E W		MX	
LECO	3.5	53	1	6:58	N (S) E W		MX w/AC	
SYAU	4.95	52.5	1	7:15	N (S) E W		AC	
LECA	5.3	17.5	1	7:20	N (S) E W		AC	
LECA	7.9	88	2	7:49	N S E (W)		MX	
LECA	10.9	49	2	8:21	N (S) E W		AC	halfway pt
LECA	10.9				N S E W			Dog town
VUVE				8:32	N S E W			swift fox
LECA	12.8	36.5	1	8:39	N S E (W)		GR	
ECA	14.45	26.5	1/2	8:56	N (S) E W		AC	
SYAU	15.2	36	1	9:05	N (S) E W		AC	
LETO	18.2	0	1	9:37	N S E (W)		GR	

(18 rows)

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 MX mixed grassland (w/AC or YU)

Vegetation codes:

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

CIRCLE ONE: CPER PNG

DATE (day-month-year) 1/9/03

OBSERVERS Molly Anderson, Justin Tammes, M. Lindquist, P. Stapp, B. Gentry

WEATHER Clear & Cold

START TIME 6:10

END TIME 9:56

INITIAL MILEAGE 0

END MILEAGE 20.55

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
ANAM	19.2		5	9:45	N(9)E W			
LECA	19.65	37	2	9:48	(N)S E W		MX	
					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			
					N S E W			

(18 rows)

Topography codes:

FU flat upland RG ridgetop AC saltbush GR grassland
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 HU human structure (<30 m): HUWI windmill, HUBU bldg, HUCG cattle grd, HUNR not recorded
 MX mixed grassland (w/AC or YU)

Vegetation codes:

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

CIRCLE ONE: CPER PNG

DATE (day-month-year) 03-04-2003

OBSERVERS M. Lindquist, B. Grady, S. Blecker, J. Norman, N. Kaplan

WEATHER windy, cloudy, 40s (F)

START TIME 19:20

END TIME 22:37

INITIAL MILEAGE 0.0

END MILEAGE 20.6

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
SYAU	0.50	10.5	1	19:27	N S E <u>W</u>	RG	GR	
SYAU	0.55	42.5	1	19:28	N S <u>E</u> W	RG	MX YU	
LECA	0.75	5.0	1	19:31	N S <u>E</u> W	MS	GR	
LETO	0.85	27.0	1	19:34	N S E <u>W</u>	MS	GR	
LETO	1.65	34.0	1	19:44	<u>N</u> S E W	SW	MXAC	Sub-Adult
ANAM	2.40	—	5	19:51	N S E <u>W</u>	MS	GR	
SYAU	3.65	42.0	1	20:02	N S <u>E</u> W	MS	MXAC	
SYAU	4.45	6.0	1	20:11	<u>N</u> S E W	SW	MXAC	
LECA	5.25	40.0	1	20:21	<u>N</u> S E W	FL	MXAC	Sub-Adult
LECA	5.40	8.5	1	20:23	<u>N</u> S E W	FL	MXAC	Sub-Adult
LECA	5.60	39.0	1	20:25	N S <u>E</u> W	FL	MXAC	Sub-Adult
LECA	5.70	15.5	2	20:27	N S E <u>W</u>	FL	MXAC	
SYAU	5.80	0.0	1	20:29	N S <u>E</u> W	FL	MXAC	JUVENILE ABS HQ
LESP	6.25	0.0	1	20:33	<u>N</u> S E W	FL	MXAC	Unknown LESP
LECA	6.65	37.0	1	20:35	N S E <u>W</u>	FL	MXAC	
LECA	6.80	17.5	1	20:39	N S E <u>W</u>	FL	MXAC	
LECA	7.30	0.0	1	20:45	<u>N</u> S E W	FL	MXAC	Sub-Adult
LECA	7.80	28.0	1	20:49	N S E <u>W</u>	MS	MX YU	

(18 rows)

Topography codes:

FU flat upland

RG ridgetop

FL flat lowland

SW swale

MS midslope

CR creek drainage

HU human structure (<30 m): HUWI windmill, HUBU bldg, HUCG cattle grd, HUNR not recorded

MX mixed grassland (w/AC or YU)

Vegetation codes:

GR grassland

HU human structure (<30 m)

YU yucca

MX mixed grassland (MXAC or MX YU)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

CIRCLE ONE: CPER PNG

DATE (day-month-year) 03-04-2003

OBSERVERS M. Lindquist, J. Norman, S. Blecker, B. Grady, N. Kaplan

WEATHER Windy, Cloudy Then Cleared up

START TIME 22:37 END TIME 22:37

INITIAL MILEAGE — END MILEAGE 20.6

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	11.40	29.0	1	21:23	N <u>S</u> E W	MS	MXAC	
ANAM	11.80	—	1	21:28	N S <u>E</u> W	MS	MXAC	
LECA	14.70	47.0	1	21:50	N <u>S</u> E W	FL	MXAC	
SYAU	16.25	9.0	1	22:01	<u>N</u> S E W	RG	GR	
LETO	16.90	1.0	1	22:10	<u>N</u> S E W	RG	GR	
LETO	17.30	35.5	2	22:15	N S <u>E</u> W	FU	GR	Sub-Adults
ANAM	18.50	—	3	22:25	<u>N</u> S E W	RG	GR	
END	20.6	—	—	22:37	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
HU human structure (<30 m): HUWI windmill, HUBU bldg, HUCG cattle grd, HUNR not recorded
MX mixed grassland (w/AC or YU)

RG ridgetop

SW swale

CR creek drainage

AC saltbush

YU yucca

MX mixed grassland (MXAC or MXYU)

Vegetation codes:

GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project Spotlight Rabbit Count

 1 of 2
 entered 7/7/03
 TRL
CIRCLE ONE: CPER PNGDATE (day-month-year) 02 July 2003OBSERVERS Jamie Weaver, Beth Grady, John Norman, Adam Gaylord, Nicole Kaplan
Heather WalkstorfWEATHER High 90sSTART TIME 21:39END TIME 25:36INITIAL MILEAGE 0.0END MILEAGE 20.6

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
SYAU	.25	67.5	2	21:43	N S <u>E</u> W	FU	GR	Sited Antelope Prawn
SYAU	.55	34	1	21:49	N S <u>E</u> W	MS	GR	
SYAU	.55	36.7	1	21:49	N S <u>E</u> W	MS	GR	
LETO	.7	98.3	1	21:54	N S <u>E</u> W	FU	GR	
SYAU	.9	100+	1	22:01	N S <u>E</u> W	SW	GR	
LETO	.9	100+	1	22:01	N S <u>E</u> W	SW	GR	
LECA	1.15	35	1	22:07	N S <u>E</u> W	MS	GR	
LETO	1.65	5	2	22:14	<u>N</u> S E W	SW	GR	Mixed w/ AC
LETO	2.25	79	1	22:20	N S <u>E</u> W	MS	GR	NEAR HUWI
LECA	2.5	14.5	1	22:25	N S <u>E</u> W	FU	GR	
SYAU	2.7	60.5	2	22:29	N <u>S</u> E W	MS	GR	
LECA	3.75	14	1	22:39	<u>N</u> S E W	MS	GR	
VUVE	—	—	1	22:42	N S E W	MS	GR	
LECA	3.9	54	1	22:43	<u>N</u> S E W	MS	GR	
ANAM	4.05	—	2	22:47	N S E W	MS	GR	
LECA	4.6	0 Ø	1	22:53	N S <u>E</u> W	CR	GR	
LECA	5.3	15.5	1	23:01	N S <u>E</u> W	MX w/AC - FL		
SYAU	5.9	16.5	1	23:09	N <u>S</u> E W	FL MX w/AC		HUCG

(18 rows)

NEAR ARS

Topography codes:

FU flat upland

RG ridgetop

AC saltbush

GR grassland

FL flat lowland

SW swale

YU yucca

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MX mixed grassland (w/AC or YU)

LETO - white-tailed JACK

LECA - black-tailed JACK

SYAU - cottontail

Vegetation codes:

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

CIRCLE ONE: CPER PNG

entered 7/7/03
mek

DATE (day-month-year) 02 July 2003

OBSERVERS JAMIE WEAVER, John NORMAN, ADAM GAYLORD, NICOLE KAPLAN,
HEATHER WOLKSTORFER

WEATHER High 90's

START TIME 21:39

END TIME 25:36

INITIAL MILEAGE 0.0

END MILEAGE 20.6

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
SYAU	5.9	Ø	1	23:10	(N) S E W	FL MX w/AC		HUGG-AC
LECA	8.05	60	1	23:21	N S (E) W	FL MX w/AC		
CALA	9.75	—	1	23:32	N S E (W)	11		
LECA	12.1	46.5	1	23:53	N S (E) W	MS	GR	
LECA	12.7	14	1	24:06	N S (E) W	MS	GR	
LECA	13.9	37	1	24:17	(N) S E (W)	MS	GR	
LECA	14.2	10	1	24:21	N S E (W)	MS	GR	
LECA	15.7	53.5	2	24:31	N S (E) W	FL w/AC		ONE WAS UNKNOWN-LE
LECA	15.8	80	2	24:34	N S (E) W	FL w/AC		
LECA	15.9	57	2	24:38	N S (E) W	FL w/AC		ONE WAS LETO
LECA	15.95	63	3	24:44	(N) S E W	FL	GR	ONE WAS SYAU
SYAU	16.3	42	1	24:54	(N) S E W	FL	GR	
SYAU	16.6	14	1	24:59	N S E (W)	FL	GR	
LETO	16.9	46.5	1	25:04	N S 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
CR creek drainage

RG ridgetop

SW swale

CR creek drainage

AC saltbush

YU yucca

MX mixed grassland (MXAC or MXYU)

HU human structure (<30 m): HUWI windmill, HUBU bldg, HUGG cattle grd, HUNR not recorded

MX mixed grassland (w/AC or YU)

Vegetation codes:

GR grassland

HU human structure (<30 m)

LETO - white

LECA - black

SYAU - cotton tail

SGS-LTER Long-Term Monitoring Project Spotlight Rabbit Count

CIRCLE ONE: CPER PNGDATE (day-month-year) 07- October - 2003OBSERVERS M. Lindquist, S. Ratering, J. Norman, J. Weaver, N. KaplanWEATHER Partly Cloudy 60's°START TIME 19:45END TIME 22:50INITIAL MILEAGE 0END MILEAGE 20.60

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	0.15	54m	1	19:47	N S E (W)	MSLP	GR	
LECA	0.25	59 75	1 1	19:49	N S E W	RG	GR	
LECA	0.25	34	1	19:49	N S E W	RG	GR	
LECA	0.35	00	1	19:52	N S E (W)	RG	GR	
SYAU	0.50	5	1	19:54	N S E (W)	RG	GR	cattle guard
LECA	0.95	62	2	19:58	N S E W	SW	GR	
NUVE	1.55	—	1	20:04	N S E W	SW	MXAC	
NUVE	2.25	—	1	20:11	N S E W	RG	GR	HUWI
LETO	2.70	19	2	20:15	N S E W	MS	GR	
NUVE	3.30	—	1	20:20	N S E W	SW	GR	
SYAU	4.15	3.5	1	20:28	N S E (W)	RG	MXW	
UNLE	5.30	27	1	20:37	N S E W	FL	MXAC	
SYAU	5.80	18	1	20:43	N S E W	FL	MXAC	
LECA	8.10	23	1	20:59	N S E W	RG	MXAC	
LECA	9.80	35	1	21:11	N S E (W)	FL	MXAC	
LECA	13.10	23	1	21:39	N S E (W)	FU	GR	SWIS
LECA	13.25	00	1	21:43	N S E (W)	FU	GR	Sub-Adult
LECA	13.75	00	1	21:47	N S E W	FU	GR	Sub-Adult

(18 rows)

Topography codes:

FU flat upland

RG ridgetop

AC saltbush

GR grassland

FL flat lowland

SW swale

YU yucca

HU human structure (<30 m)

MS midslope

CR creek drainage

MX mixed grassland (MXAC or MXYU)

HU human structure (<30 m): HUWI windmill, HUBU bldg, HUCG cattle grd, HUNR not recorded

MX mixed grassland (w/AC or YU)

Vegetation codes:

SGS-LTER Long-Term Monitoring Project

Spotlight Rabbit Count

CIRCLE ONE: CPER PNGDATE (day-month-year) 07-10-03OBSERVERS N. Kaplan, S. Ratering, J. Weaver, M. Lindquist, J. NormanWEATHER Partly Cloudy 50'sSTART TIME _____ END TIME 22:50INITIAL MILEAGE _____ END MILEAGE 20.60 mi

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	13.80	00	1	21:48	N S <u>(E)</u> W	FU	GR	Sub-adult - HU
LECA	14.70	37	1	21:55	<u>(N)</u> S E W	FU	MXAC	SA *
LECA	14.70	21	1	21:55	N <u>(S)</u> E W	FU	MXAC	SA *
LECA	15.20	00	1	21:58	N <u>(S)</u> E W	FU	MXAC	
LETO	15.65	7	1	22:01	N S E <u>(W)</u>	FU	GR	
LECA	15.85	32	1	22:02	N S <u>(E)</u> W	FU	GR	
SYAU	16.30	40	1	22:09	<u>(N)</u> S E W	MS	GR	
LETO	17.95	97	1	22:28	N S E <u>(W)</u>	MS	GR	SA *
LECA	18.65	45	1	22:35	<u>(N)</u> S E W	RG	GR	SA *
ANAM	19.40	—	5	22:42	N S <u>(E)</u> W	FU	GR	
LECA	20.40	28	1	22:48	<u>(N)</u> S E W	MS	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			

(18 rows)

Topography codes:

FU flat upland RG ridgetop AC saltbush
 FL flat lowland SW swale YU yucca
 MS midslope CR creek drainage MX mixed grassland (MXAC or MXYU)
 HU human structure (<30 m): HUWI windmill, HUBU bldg, HUCG cattle grd, HUNR not recorded
 MX mixed grassland (w/AC or YU)

Vegetation codes:

GR grassland
 HU human structure (<30 m)

* = Subadult