

Project Summary Sheet – Year 2000

Project Name Spotlight Rabbit Count - Long-Term Monitoring Project

Project Number ARS 98

Principal Investigator(s) Paul Stapp, Mark Lindquist, Bill Lauenroth

Dates of Data Collection 6 Jan 2000, 6 April 2000, 29 June 2000, 10 SEPT 2000

Location of study area(s) 20 mile transect through CPER and PNG

Full Names of Data Collectors Mark Lindquist, Rebecca McCulley, Dave Smith, Terry James, Laurel Hartley, Nicole Kaplan, Chris Bauer, Janine Junell, Jennifer Lee, Mott Cooper, Kathy Maclean, Craig Goodman

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

<u>Date</u>	<u># of pages</u>
6 Jan 2000	1
6 April 2000	4
29 June 2000	5
10 SEPT 2000	3

Questions and Concerns

- missing cells = " "
- use caps
- standardized codes => mk Lepus = LFSP
Badger = TATA
- omit "m" for meters in Distance
- add # obs, start & end time, dir, codes^{veg + tops}, time day

Date copies of data sheets were sent to PI(s) _____

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

Names of any other persons given copies of data sheets _____

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. 2000

OBSERVERS MDL, Jim Nelson, R. McCally, D. Smith, Terry Jones

WEATHER Clear, no wind

START TIME 18:00

END TIME 21:23

INITIAL MILEAGE 0 mi.

END MILEAGE 20.7 mi.

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LETO	0.55 mi	46.0	1	18:04	N S E (W)	MS	GR	sub-adult juvenile
LETO	0.7 mi	54	2	18:09	(N) S E W	FU	GR	
LE??	1.15 mi	73	1	18:15	(N) S E W	FU	GR	no i.d. - ran over hill
LETO	2.2 mi	17.5	1	18:28	N S (E) W	FU	GR	
LETO	2.35 mi	80	2	18:31	(N) S E W	FU	GR	
LECA	5.9 mi	33	1	19:08	N (S) E W	FU	MXAL	near ARS headquarters
SYAU	6.0 mi	12.5	1	19:05	N S E (W)	FU	HU	at headquarters
LECA	6.0 mi	70	1	19:22	N S E (W)	FU	HU	alfalfa field
LECA	12.7 mi	14.5	1	20:00	N S (E) W	FU	GR	
LECA	16.0 mi	34.2	1	20:40	(N) S E W	FU	GR	
LETO	17.7 mi	74.0	1	20:57	N S E (W)	Swale	GR	
LETO	18.7 mi	37.5	1	21:08	(N) S E W	FU	GR	
ANHAM	19.4 mi	—	20	21:15	(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			

(18 rows)

Topography codes:

FU flat upland

RG ridgetop

Vegetation codes:

AC saltbush

GR grassland

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGSYAU - cottontail
LETO - white LECA - blackDATE (day-month-year) 6 April 2000OBSERVERS M. Lindquist, L. Hartley, N. Kaplan (Snider), C. Bauer, J. Junell,
J. NormanWEATHER cloudy temp in 40's FSTART TIME 2012 END TIME 24.21INITIAL MILEAGE 0 END MILEAGE 28.5

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
SYAU	0.5	32.5	1	2016	N S <u>(E)</u> W	FU	GR	along fence line
LE <u>unk</u>	0.65	34	1	2018	N S <u>(E)</u> W	FU	GR	
SYAU	0.7	49.5	2	2022	N S E <u>(W)</u>	FU	GR	
ANAM	1.35	—	4	2030	N S E <u>(W)</u>	RG	GR	
LETO	1.35	30.5	1	2030	N S E <u>(W)</u>	RG	GR	
ANAM	1.7	—	1	2034	<u>(N)</u> S E W	RG	GR	
LETO	2.45	96	1	2041	N S E <u>(W)</u>	MS	GR	paced from end of fence
LECA	2.6	0	1	2045	<u>(N)</u> S E W	FU	GR	on road
LETO	2.8	95	1	2048	<u>(N)</u> S E W	MS	GR	
LETO	2.9	51	1	2052	<u>(N)</u> S E W	MS	MX	
LETO	3.0	27	1	2055	N <u>(S)</u> E W	MS	MX	
LECA	3.15	63	1	2058	<u>(N)</u> S E W	MS	MX	along fence line just past windmill
LECA	3.5	53	1	2103	<u>(N)</u> S E W	MS	MX	
LECA	3.7	70	1	2107	N S E <u>(W)</u>	RG	MX	along fence line
SYAU	3.85	5.5	1	2111	N <u>(S)</u> E W	MS	MX	just off little fence - rabbit
Dior	4.0	—	1	2114	N S E W	MS	MX	on road
Dior	4.1	—	1	2115	N S E W	RG	MX/YU	at fence owl creek
Dior	4.35	—	—	2117	N S E W	MS	MS/YU	

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

Vegetation codes:

GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count

CIRCLE ONE:

CPER

PNG

SYAU
LECA -DATE (day-month-year) 6 April 2000OBSERVERS M. Lindquist, L. Hartley, N. Kaplan (Sneider), J. Norman,
C. Bauer, J. TunellWEATHER cloudySTART TIME 2012END TIME 2421INITIAL MILEAGE 0END MILEAGE 26.5

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	4.4	11.5	2	2118	N <u>(S)</u> E W	MS	MX	
SYAU	4.4	6.5	1	2118	<u>(N)</u> S E W	MS	MX	
LECA	5.3	35	1	2127	N <u>(S)</u> E W	BFL	MX	
SYAU	5.8	3	1	2131	N S E <u>(W)</u>	FL	MX	
LECA	5.85	14.5	1	2132	N <u>(S)</u> E W	FL	MX	along fence behind ARS coral
SYAU	5.95	14	2	2134	N S E <u>(W)</u>	FL	HU	at corals
LECA	6.4	29	1	2139	N S <u>(E)</u> W	FU	MX	just off fence
LECA	6.55	18	1	2142	N S <u>(E)</u> W	FU	MX	along fence line
CALA / VUVE	6.8	-	1	2145	N S E <u>(W)</u>	FU	MX	-couldn't ID
LECA	7.3	28	1	2148	N S <u>(E)</u> W	MS	MX	just off fence
ANAM	7.5	-	3	2153	N S E <u>(W)</u>	MS	MX	
LECA	7.9	30.5	1	2155	N S <u>(E)</u> W	MS	MIX	
LECA	8.6	22	1	2202	N <u>(S)</u> E W	FL	MIX	
LECA	8.6	29	1	2202	<u>(N)</u> S E W	FL	MIX	
LECA	8.7	54	2	2205	<u>(N)</u> S E W	FL	Alfalfa HU	
LECA	8.75	0.0	1	2208	N <u>(S)</u> E W	FL	MX	
LECA	9.0	46	1	2210	<u>(N)</u> S E W	FL	MX	
LECA	9.05	22.5	1	2210	N S E W	FL	MX	

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

Vegetation codes:

GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project Spotlight Rabbit Count

CIRCLE ONE: CPER PNGDATE (day-month-year) 6 April 2000OBSERVERS M. Lindquist, N. Kaplan, L. Hartley, J. Sunell,
J. Norman, C. BauerWEATHER cloudy, chilly 40's FSTART TIME 2012END TIME 2421INITIAL MILEAGE 0END MILEAGE 29.5

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
SYAU	9.7	41	1	2223	N <u>S</u> E W	FL	MIX	
ANAM	10.5	—	5	2232	N S <u>E</u> W	MS	GR	
LECA	10.5	19	1	2233	N S E <u>W</u>	FU	MIX	
LECA	11.2	56.5	1	2239	N <u>S</u> E W	MS	MIX	
LECA	12.2	25	1	2250	N S E <u>W</u>	FU	GR	
LECA	12.3	31.5	1	2253	N S <u>E</u> W	FU	GR	
LECA	12.7	1	1	2300	N S E <u>W</u>	FU	GR	
LECA	13.35	31	1	2306	N S <u>E</u> W	FU	GR	
LECA	13.75	88	1	2310	N S <u>E</u> W	FU	GR	
LECA	15.15	0	1	2325	N <u>S</u> E W	FL	MX	
LECA	15.85	66.5	5	2330	N S <u>E</u> W	FL	GR	
SYAU	16.2	6	1	2336	<u>N</u> S E W	MS	GR	
SYAU	16.3	8.5	1	2337	N <u>S</u> E W	MS	HU	
SYAU	16.5	16	1	2341	N <u>S</u> E W	MS	GR	
LETO	16.8	4.5	1	2346	<u>N</u> S E W	FU	GR	
LETO	16.9	19	1	2348	N S <u>E</u> W	FU	GR	
ANAM	17.1	—	18	2351	N S E <u>W</u>	FU	GR	
VUVE	17.3	—	1	2353	N S E <u>W</u>	FU	GR	

(18 rows)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

Vegetation codes:

GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit CountCIRCLE ONE: CPER PNGDATE (day-month-year) 6 April 2000OBSERVERS M. Lindquist, L. Hartley, N. Kaplan (Snider), L. Bauer,
J. Junell, J. NormanWEATHER cloudy, temperature dropped ~ 2330 + windy picked upSTART TIME 2012 END TIME 2421INITIAL MILEAGE 0 END MILEAGE 26.5

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
TATA	17.5	—	1	2356	NSE <u>(W)</u>	RG	GR	
SYAU	17.6	0	1	2356	<u>(N)</u> SEW	SW	GR	
LETO	18.6	35.5	2	2405	NSE <u>(W)</u>	FU	GR	
CALA	19.1	—	1	2410	NS <u>(E)</u> W	FU	GR	
SYAU	20	18	1	2417	<u>(N)</u> SEW	FU	GR	
TATA	20	18	1	2417	<u>(N)</u> SEW	FU	GR	
	<u>26.5</u>	END		2421	NSEW			
					NSEW			
					NSEW			
					NSEW			
					NSEW			
					NSEW			
					NSEW			
					NSEW			
					NSEW			
					NSEW			
					NSEW			
					NSEW			
					NSEW			
					NSEW			

(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) 29-June-2000OBSERVERS L. Hartley, K. MacLean, M. Lindquist, J. Lee, M. Cooper, C. GodmanWEATHER clear 65°FSTART TIME 9:32 pmEND TIME 1:47 amINITIAL MILEAGE 0END MILEAGE 20.7

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
^{skunk} MEME	.4	—	—	9:36	NSE(W)	FU	GR	
LECA	.6	59	1	9:38	NS(E)W	SW	GR	
LECA	.8	25.5	1	9:43	NSE(W)	MS	GR	
VUVE	1.0	—	3	9:47	NS(E)W	MS	GR	
ANAM	1.2	—	3	9:49	NSE(W)	MS	GR	
ANAM	1.5	—	2	9:52	NSE(W)	MS	GR	
MEME	1.5	—	1	9:52	NSE(W)	MS	GR	
MEME	1.6	0	1	9:52	NSE(W)	MS	GR	
MEME	1.7	—	1	9:54	(N)SEW	MS	GR	
VUVE	1.7	—	1	9:54	(N)SEW	MS	GR	
VUVE	1.8	—	3	9:55	(N)SEW	MS	GR	
Baby VUVE	2.0	0	1	9:57	(N)SEW	FU	GR	
LETO	2.1	110	3	9:59	(N)SEW	FU	GR	
ANAM	2.9	—	2	10:10	NSE(W)	MS	GR	
LECA	3.0	0	1	10:13	NSEW	MS/AC	mx/AC	
LECA	3.5	0	1	10:16	NSE(W)	FU	mx/AC	
LECA	3.9	10	1	10:20	NSE(W)	FU	mx/AC	
LECA	3.9	27.5	1	10:20	NSE(W)	FU	mx/AC	

(18 rows)

Topography codes:

FU flat upland

RG ridgetop

FL flat lowland

SW swale

MS midslope

CR creek drainage

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

Vegetation codes:

GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project Spotlight Rabbit Count

CIRCLE ONE: CPER PNGDATE (day-month-year) 29 June 2000OBSERVERS L. Hartley, K. Maclean, M. Lindquist, J. Lee, M. Cooper
C. GodmanWEATHER Clear 65°FSTART TIME 9:32 pmEND TIME 1:47 amINITIAL MILEAGE 0END MILEAGE 20.7

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	3.9	67	1	10:20	N S E <u>W</u>	MS	MX/AC	
LECA	4.0	85.1	1	10:27	<u>N</u> S E W	MS	MX/AC	
BUWO	4.2	0	1	10:32	<u>N</u> S E W	MS	MX/YU	
SYAU	4.3	22.5	1	10:33	N <u>S</u> E W	MS	YU	
SYAU	4.3	31.0	1	10:33	N <u>S</u> E W	MS	YU	
common Nighthawk	4.4	—	1	10:35	<u>N</u> S E W	UP	YU	
LECA	4.5	30.5	1	10:39	N <u>S</u> E W	MS	GR	
BUWO	4.6	—	1	10:42	N S E W	FL	AC	
LECA	4.6	14.0	2	10:43	N S E W	FL	AC	
LECA	5.0	0	1	10:47	N S E <u>W</u>	FL	AC	
LECA	5.1	23.5	1	10:48	<u>N</u> S E W	FU	GR	
LECA	5.2	54.0	1	10:50	<u>N</u> S E W	FU	GR	
LECA	5.3	0.0	1	10:55	N <u>S</u> E W	FU	GR	
JUVEE LECA	5.5	0.0	1	10:57	N S E W	FU	GR	
LECA	5.7	0.0	1	10:58	N S E <u>W</u>	FU	GR	
LECA	5.8	37.5	1	11:00	N S E <u>W</u>	FU	GR	
LECA	5.9	38.5	1	11:02	N S E <u>W</u>	FU	GR	
SYAU	5.9	00	1	11:03	N <u>S</u> E W	FU	HU	

(18 rows)

Topography codes:

FU flat upland

RG ridgetop

FL flat lowland

SW swale

MS midslope

CR creek drainage

Vegetation codes:

AC saltbush

GR grassland

YU yucca

HU human structure (<30 m)

MX mixed grassland (w/AC or YU)

SGS-LTER Long-Term Monitoring Project Spotlight Rabbit Count

CIRCLE ONE: CPER PNGDATE (day-month-year) 29 June 2000OBSERVERS L. Hartley, K. Maclean, M. Lindquist, J. Lee, M. Cooper
C. GoodmanWEATHER Clear 65°FSTART TIME 9:32 pmEND TIME 1:47 amINITIAL MILEAGE 0END MILEAGE 20.7

SPECIES	MILEAGE	DISTANCE ^(mi)	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
SYAU	6.0	14.5	1	11:07	N S E <u>(W)</u>	FU	HU	
SCBO	6.0	0.0	1	11:07	N S E W	FU	HU	
SCBO	6.1	0.0	1	11:10	N <u>(S)</u> E W	FU	GR	
LECA	6.2	0.0	1	11:11	N S E W	FU	GR	
LECA	6.4	14.5	1	11:13	N S <u>(E)</u> W	FU	GR	
ANAM	6.8		1	11:16	N S E <u>(W)</u>	FU	GR	
LECA	7.0	0.0	1	11:17	N S E W	FU	GR	subadult
LECA	7.3	11.5	1	11:18	N S E <u>(W)</u>	FU	GR	subadult
ANAM	7.4		1	11:20	N S E <u>(W)</u>	FU	GR	
LECA	7.5	37.0	1	11:20	N S E <u>(W)</u>	FU	GR	
LECA	7.6	14.5	1	11:22	N S E <u>(W)</u>	FU	GR	
LECA	8.1	11.0	1	11:26	N S E <u>(W)</u>	FU	GR	
ANAM	8.5		1	11:28	<u>(N)</u> S E W	FU	GR	
LECA	8.8	76.5	7	11:29	<u>(N)</u> S E W	FU	Alfalfa field	
LECA	8.9	52.5	1	11:33	<u>(N)</u> S E W	FU	GR	
LECA	9.0	10.0	1	11:35	N S E W	FU	GR	
unk carnivore	10.2	—	—	11:49	N <u>(S)</u> E W	—	—	
VUVE	10.4	—	1	11:52	N S <u>(E)</u> W	FU	GR	

(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 (w/AC or YU)

Vegetation codes:

GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project Spotlight Rabbit Count

CIRCLE ONE: CPER PNGDATE (day-month-year) 29 June 2000OBSERVERS L. Hartley, K. Maclean, M. Lindquist, J. Lee M. Cooper
C. GodmanWEATHER Clear 65°FSTART TIME 9:32 PMEND TIME 1:47 amINITIAL MILEAGE 0END MILEAGE 20.7

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	10.7	19.0	1	11:55	N S E <u>W</u>	FU	GR	subadult
LECA	10.8	0.0	1	11:56	N <u>S</u> E W	FU	GR	
LECA	11.0	25.5	1	11:59	N <u>S</u> E W	FU	GR	
LECA	11.1	44.5	1	12:05	<u>N</u> S E W	MS	MX	
LECA	11.1	0.0	1	12:06	N S E <u>W</u>	FU	MX	
LECA	11.15	33.5	1	12:07	N <u>S</u> E W	FU	MX	
LECA	11.25	31.0	1	12:10	<u>N</u> S E W	FU	MX	
ANRM	11.7	—	2	12:16	N S E <u>W</u>	FL	MX	
ANAM	11.9	—	1	12:17	N S <u>E</u> W	FL	GR	
LECA	12.8	23.0	1	12:24	N S E <u>W</u>	FU	GR	subadult
ANAM	12.9	—	1	12:27	N S <u>E</u> W	FU	GR	
ITATA	13.6	—	1	12:35	N S E <u>W</u>	FU	GR	subadult
LECA	14.4	100.0	1	12:43	N <u>S</u> E W	FU	GR	
LECA	14.8	32	1	12:50	N <u>S</u> E W	FL	AC	
LECA	14.8	32	1	12:50	N <u>S</u> E W	FL	AC	
LECA	15.0	58.5	1	12:52	N <u>S</u> E W	FL	AC	
DIOR	15.6	—	1	12:58	N S <u>E</u> W	FU	GR	
LECA	15.8	55	4	12:58	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

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

Vegetation codes:

GR grassland

HU human structure (<30 m)

CIRCLE ONE: CPER PNG

OBSERVERS L. Hartley, K. Maclean, M. Lindquist, J. Lee, M. Cooper
C. Goodman

WEATHER Clear 65° F

START TIME 9:32 pm

END TIME 01:47 am

INITIAL MILEAGE 0

END MILEAGE 20.7

[illegible]

Topography codes:

GR grassland

HU human structure (<30 m)

MX mixed grassland (w/AC or YU)

Vegetation codes:

GR grassland

HU human structure (<30 m)

MX mixed grassland (w/AC or YU)

SGS-LTER Long-Term Monitoring Project Spotlight Rabbit Count

CIRCLE ONE: CPER PNGDATE (day-month-year) 9-10-2000OBSERVERS D. Smith, M. Lindquist, L. Hartley, N. Kaplan, J. NelsonWEATHER Clear, calm, coolSTART TIME 19:18END TIME 23:11INITIAL MILEAGE 0END MILEAGE 20.720.7 (m) range finder

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS
LECA	0.25	11.0	1	19:22	N S <u>E</u> W	FU	GR	
SYAU	0.45	42 46	2	19:26	N S <u>E</u> W	MS	GR	
LETO	0.65	9m	1	19:29	N S E <u>W</u>	FU	GR	
LECA	0.65	9m	1	19:29	N S E <u>W</u>	FU	GR	
Sub-adult LETO	2.1	68 68	1	19:43	N S <u>E</u> W	FU	GR	Subadult
LETO	2.25	40 41	1	19:47	N S <u>E</u> W	FU	GR	windmill nearby
LETO	2.50	89 61	1	19:45	N S E <u>W</u>	FU	GR	
LECA	3.90	2	1	20:10	N <u>S</u> E W	MS	MX	
SYAU	4.20	12.5	1	20:14	N S <u>E</u> W	RG	YU	
Sub-adult LECA	5.05	16	1	20:26	<u>N</u> S E W	FL	AC	Subadult
LECA	5.3	32.5 33	2	20:29	<u>N</u> S E W	FL	AC	
SYAU	5.9	14	1	20:35	<u>N</u> S E W	FU	HU	
SYAU	5.9	1	1	20:36	N <u>S</u> E W	FU	HU	
LECA	7.15	35 35	2	20:44	N S <u>E</u> W	FU	MX/AC	
LECA	7.15	0	1	20:44	N S E W	FU	Road	
SYAU	11.35	65	1	21:25	N <u>S</u> E W	FU	MX/AC	
LECA	12.20	23 25	1	21:36	N S E <u>W</u>	FU	GR	Subadult
LECA	12.30	11.5	1	21:38	N S <u>E</u> W	FU	GR	Subadult

(18 rows)

(corner of fences)

Topography codes:

FU flat upland

FL flat lowland

MS midslope

RG ridgetop

SW swale

CR creek drainage

AC saltbush

YU yucca

MX mixed grassland (w/AC or YU)

Vegetation codes:

GR grassland

HU human structure (<30 m)

SGS-LTER Long-Term Monitoring Project Spotlight Rabbit Count

CIRCLE ONE: CPER PNGDATE (day-month-year) 9-10-2000OBSERVERS MDL, DS, JN, LH, NEKWEATHER Clear, calm, coolSTART TIME 19:18 END TIME 23:11INITIAL MILEAGE 0 END MILEAGE 20.7m tape | rangefinder

SPECIES	MILEAGE	DISTANCE	# ANIMALS	TIME	DIRECTION	Topogr	Veg	COMMENTS	
UNK. LE SPP.	12.9	110	93	1	21:46	N S (E) W	FU	GR	
LECA	13.8	31.5	33	1	21:58	N S E (W)	FU	GR	stock tanks, tree nearby
LECA	14.8	31.5	32	1	22:12	N (S) E W	FL	MX/AC	
LETO	15.7	20.5	21	1	22:19	N S E (W)	FU	GR	windmill nearby
LETO	16.0	23	21	1	22:24	N (S) E W	MS	GR	windmill nearby
SYAU	16.3	30	30	1	22:30	N (S) E W	RG	GR	
SYAU	16.4	25	25	1	22:33	N S (E) W	RG	GR	scale
SYAU	16.6	21	22	1	22:37	N (S) E W	RG	MX/AC	
LETO	16.9	5	—	1	22:47	N (S) E W	FU	GR	
ANAM	18.9	—	—	8	23:00	N (S) E W	SW	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			

(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 (w/AC or YU)

Vegetation codes:

SGS-LTER Long-Term Monitoring Project
Spotlight Rabbit Count - MISCELLANEOUS SPECIES

CIRCLE ONE:

CPER

PNG

DATE (day-month-year) 9-10-2000

[illegible]

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

EQUIPMENT: Truck with functional tripometer, two "Q-beam" spotlights plus one spare, data sheets, 50-m tape, one driver and 3-4 observers.

1. Route driven on one night in January, April, July, and October during the period of the new moon (between last and first quarter-moons).
2. Start at dark at the fenceline road near driveway to site manager's house in 21SE (1994-96), or at the PNG intersection WCR122 and 59. Route is 32 km (20 mi) for 1994-96; ca. 18 km (11 mi) on each of the PNG and CPER routes.
3. Three observers in back of truck, two with spotlights and one watching road in front of truck and helping to locate animals. Driver or another observer records data from front. When an animal is spotted, one observer spotlights animal to make sure that it is not recorded later as a new observation, one observer spotlights the spot on the ground where the animal was first sighted, and another observer measures the perpendicular distance from the side of the truck bed to where the animal was sighted.
4. Data to be recorded at each sighting:

SPECIES:

SYAU	desert cottontails (<i>Sylvilagus audubonii</i>)
LECA	black-tailed jackrabbits (<i>Lepus californicus</i>)
LETO	white-tailed jackrabbits (<i>Lepus townsendii</i>)

ODOMETER READING (to nearest 0.05 mi)

PERPENDICULAR DISTANCE TO ANIMAL (to nearest 0.5 m)

NUMBER OF ANIMALS AT THAT DISTANCE (for animals in groups)

TIME (military) APPROXIMATE DIRECTION FROM VEHICLE (N,S,E,W)

TOPOGRAPHY (use codes provided) VEGETATION (use codes provided)

COMMENTS (anything unusual or interesting; record nearby cattle guards, tanks, windmills, enclosures, etc.)

5. Record sightings and odometer readings for other animals on MISCELLANEOUS data sheet.

MISCELLANEOUS SPECIES:

CALA	coyote	VUVE	swift fox
TATA	badger	MEME	striped skunk
MUFR	long-tailed weasel	DIOR	kangaroo rat
GHOW	great-horned owl	BAOW	barn owl

6. Data files are called "LAG**.DAT", with ** as the three letter abbreviation for the month and the two last two digits of the year (e.g., LAGJUL94.DAT). These files are ASCII space-delimited and contain only the following information in this order:

SPECIES ODOMETER DISTANCE NUMBER.

Sightings of miscellaneous animals are kept with the original data but are not currently stored as files.

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

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