

## Project Summary Sheet – Year 2003

Project Name SGS-LTER Long-Term Monitoring Project-Arthropod Abundance on  
Project Number 118 Small Mammal Trapping Webs

Principal Investigator(s) Paul Stapp, Mark Lindquist

Dates of Data Collection May 9, June 11, July 11, August 8, & September 12-2003

Plot Names / Specific Location of study area(s) Small Mammal Trapping Webs -  
13NW, 13SW, 24 NE, 25 NE, 26 NW, 27 NE,

Full Names of Data Collectors Steve Blocker, Jamie Weaver, Nicole Kaplan,  
Laura Jamison, Beth Grady, Adam Gaylord, Brandon Vogel,  
Heather Wolkerstorfer, Seth Watring, April Sheldon

Names of Associated Files and Databases AtCalon\Projects\dataentry\ARS#118-  
ArthWeb-Data\WebArth-2002-2003.xls, also →(webarth 98-99-00-01,  
xls)

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

Data sheets are organized by web. Each web packets  
contains 5 pages. Each page contains a sampling date,  
as listed above.

Questions and Concerns

On some data sheets<sup>other</sup> beetles may be recorded under other "other arthropod."  
During data entry, these data were entered under the correct family.

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

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

Names of any other persons given copies of data sheets

Nicole Kaplan (IM), Mark Lindquist

# SGS-LTER Long-Term Monitoring Project

## Arthropod Abundance on Trapping Webs

WEB CODE: 135WDATE/TIME OPENED: 9.08.03DATE/TIME CLOSED: 9.12.03OBSERVERS: S. Blecker, J. WeaverCURRENT WEATHER: sunny, breezy, cool, mosquito infestedGENERAL WEATHER DURING SESSION: same

Solp = Wind Scorpion

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	Ø								1-FORM
A2	Ø	—						1-UNK	1-Lepid larva 8-FORM 1-UNK
A3	Ø	—	2-ELFU 1-ELU 1-EMPL						1-FORM
A4	X			1					
A5	X							1-THER	1-FORM
B1	Ø				1-GRYAC				1-FORM 1-SOLP
B2	Ø	—	2-EMCO (ELU)						12-FORM
B3	Ø	X							
B4	X	—	1-EMCO	—	1-SCARAB				
B5	X	X							
C1	Ø	X							
C2	Ø	X							
C3	Ø								4-FORM
C4	X								1-FORM
C5	X	X							
D1	X	—	1-ELFU 1-ELU	—	2-SCARAB	—	—		1-FORM
D2	X				1-SCARAB				
D3	X				1-SCARAB				1-FORM
			1-EMCO	—	1-SCARAB				3-FORM

DATE/TIME CLOSED: 9.12.03

CURRENT WEATHER: Cool, Breezy, Sunny

GENERAL WEATHER DURING SESSION: *Sunny*

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	Ø	X							
A2	Ø	X							
A3	Ø	X							
A4	X	X							
A5	X							1-THER	
B1	Ø	X							
B2	Ø			2					2-CRUC 1-FORM
B3	Ø			1					1-FORM
B4	X				4-Scarab				5-FORM
B5	X								1-LEAD
C1	Ø	X							
C2	Ø								1-LEAD
C3	Ø								2-FORM
C4	X	X							
C5	X	X							
D1	X			1					
D2	X	X							
D3	X							1-SALT	
D4	X				flooded				
D5	X		1-ELFU						

# SGS-LTER Long-Term Monitoring Project

## Arthropod Abundance on Trapping Webs

WEB CODE: 24 NEDATE/TIME OPENED: 9.08.03DATE/TIME CLOSED: 9.12.03OBSERVERS: J. Weaver, S. BleckerCURRENT WEATHER: cool, breezy, sunnyGENERAL WEATHER DURING SESSION: sameNo grasshoppers

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1		X	1-ELFU					1-THER	1-CIRCU 4-FORM
A2		X	—	—	1-SCARAB	—	—	—	1-GRYAK
A3		X	1-ELOB	—	—	—	—	—	1-Form
A4			— empty	—	—	—	—	—	—
A5			—	—	—	—	—	1-THER	—
B1		X	— empty	—	—	—	—	—	—
B2		X	— empty	—	—	—	—	—	—
B3		X	1-ELLO	—	—	—	—	—	—
B4			—	—	—	—	—	1-THER	—
B5			—	—	—	—	—	1-THER	—
C1		X	—	—	—	—	—	1-THER	—
C2		X	— empty	—	—	—	—	—	—
C3		X	—	1	1-Scarab	—	—	—	6-Mides
C4			— empty	—	—	—	—	—	—
C5			1-ELFU	—	—	—	—	—	1-GRYAK 1-FORM
D1			—	empty	—	—	—	—	—
D2			1-ELHI	—	—	—	—	—	1-FORM
D3			1-ELOB	1	—	—	—	—	1-CIRCU
D4			—	empty	—	—	—	—	—
D5			—	1	—	—	—	—	—

# SGS-LTER Long-Term Monitoring Project Arthropod Abundance on Trapping Webs

WEB CODE: 25 NE

DATE/TIME OPENED: 9.08.02

DATE/TIME CLOSED: 9.12.02

OBSERVERS: J. Vetter, J. Glicker

CURRENT WEATHER: Cool, Sunny, Breezy

GENERAL WEATHER DURING SESSION: Same

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	0	-	2-Elod	-	-	-	-	-	-
A2	0	-	1-Elod	-	-	-	-	-	-
A3	0	-	1-Elmo (-Elod)	1	-	-	-	-	-
A4	-	yes	-	-	-	-	-	-	-
A5	-	-	-	-	-	1	-	1-Therid	-
B1	1	-	-	1	-	-	-	1-Therid	-
B2	0	yes	-	-	-	-	-	-	-
B3	0	-	-	1	-	-	-	-	-
B4	-	-	-	-	-	-	-	6-M. fcs 1-Nicrophorus - beetle	-
B5	-	-	-	-	-	-	-	1-Lepid 1-Curcul	-
C1	1	-	1-Elmo 1-Elod	-	-	-	-	-	-
C2	1	-	-	-	-	-	-	1-Form	-
C3	0	-	-	-	-	-	-	1-Scarb	-
C4	-	yes	-	-	-	-	-	-	-
C5	-	yes	-	-	-	-	-	-	-
D1	-	-	-	-	-	-	-	12-Forms	-
D2	-	-	-	-	-	-	-	8-Forms	-
D3	-	yes	-	-	-	-	-	-	-
D4	-	-	-	2	-	-	-	-	-
D5	-	yes	-	-	-	-	-	-	-

used 2 in PC

GENERAL WEATHER DURING SESSION: fine & above

[illegible]

# SGS-LTER Long-Term Monitoring Project

## Arthropod Abundance on Trapping Webs

\* = species present

WEB CODE: 27 NE Met. StationDATE/TIME OPENED: 9.08.03DATE/TIME CLOSED: 9.12.03OBSERVERS: J. Weaver, S. BlockerCURRENT WEATHER: Sunny, Breezy, coolGENERAL WEATHER DURING SESSION: same

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	♂	-	-	1	-	-	-	-	1 Form
A2	♂	-	2-Elod	-	-	-	-	-	8-Fam, 1-Lepid
A3	♂	yes	-	-	-	-	-	-	-
A4	-	-	1-Emeo	-	-	-	-	1-Thom	-
A5	-	yes	-	-	-	-	-	-	-
B1	♂	yes	-	-	-	-	-	-	-
B2	2	yes	-	-	-	-	-	-	-
B3	1	yes	-	-	-	-	-	-	-
B4	-	yes	-	-	-	-	-	-	-
B5	-	-	-	1-larva	-	-	-	-	1-Form
C1	♂	yes	-	-	-	-	-	-	-
C2	♂	yes	-	-	-	-	-	-	-
C3	♂	yes	-	-	-	-	-	-	-
C4		yes	-	-	-	-	-	-	-
C5		yes	-	-	-	-	-	-	-
D1		yes	-	-	-	-	-	-	-
D2		-	-	-	-	-	-	-	1 Form
D3		-	-	-	-	-	-	2 Thredid	-
D4		yes	-	-	-	-	-	-	-
D5		yes	-	-	-	-	-	-	-

P.E. JKW

5.9.03

P. Stapp, 4/98

# SGS-LTER Long-Term Monitoring Project

## Arthropod Abundance on Trapping Webs

WEB CODE: 13NWDATE/TIME OPENED: 5 May 2003 / 9:00DATE/TIME CLOSED: May 9, 2003 / 8:50OBSERVERS: S. Blecker, N. Kaplan, J. WeaverCURRENT WEATHER: rain, snowGENERAL WEATHER DURING SESSION: Sunny, breezy

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1									1 APID 2 LEPID LARVAE
A2				1					7 LEPID LARVAE
A3				1 PAEL					2 LEPID LARVAE
A4				2	1 CURC 1 unknown				2 FORM
A5			2 DROB	1	2 SCARAB				1 APID 2 LEPID LARVAE
B1	SNOW				1 CURC				6 FORM
B2	—			1					2 LEPID LARVAE
B3	SNOW			1					
B4	—								1 LEPID LARVAE
B5	SNOW		1 ELFI						1 LEPID LARVAE
C1	○		1 ELEX					1 THER 1 THOM	1 LEPID LARVAE
C2	—			1					
C3	○			2					12 FORM 2 LEPID LARVAE
C4	—								1 DIPTERA 1 LEPID LARVAE
C5	○		1 ELOB			1 Gryac			
D1	○								1 LEPID LARVAE
D2	—		1 EMPL	1		1 Gryac			3 LEPID LARVAE
D3	○								5 LEPID LARVAE
D4	—			1					
D5	○			1					2 LEPID LARVAE

was "○" in Computer



D.E. Jkw  
5.903

P. Stapp, 4/98

SGS-LTER Long-Term Monitoring Project  
Arthropod Abundance on Trapping Webs

WEB CODE: 136W

DATE/TIME OPENED: 5 May 2003/9:30

DATE/TIME CLOSED: 9 May 2003/9:30

OBSERVERS: S. Blecker, N. Kaplan, J. Weaver

CURRENT WEATHER: S/PW/11

GENERAL WEATHER DURING SESSION: \_\_\_\_\_

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1								1 LYCOS	3 LEPID LARVAE
A2									1 LEPID LARVAE 1 FORM
A3								1 GNAP	2 LEPID LARVAE 1 FORM
A4			1 ELOB						3 LEPID LARVAE
A5				1					1 LEPID LARVAE
B1						1 GRYAC			2 LEPID LARVAE
B2			1 ELFA	3					1 LEPID 1 LEPID LARVAE
B3								1 GNAP	2 LEPID LARVAE
B4								1 GNAP	
B5									1 ANT LION THERIC 1 LEPID LARVAE
C1									4 LEPID LARVAE
C2									3 LEPID LARVAE
C3				4	1 CINC				1 LEPID LARVAE 4
C4				1					2 LEPID LARVAE 2 ADID 3 FORM
C5				1					3 LEPID LARVAE 1 FORM
D1									2 LEPID LARVAE
D2		✓							
D3				2					2 LEPID LARVAE 3 FORM
D4			1 unknown						
D5									5 FORM 2 LEPID LARVAE

W.E. JKW  
9.03

P. Stapp, 4/98

# SGS-LTER Long-Term Monitoring Project Arthropod Abundance on Trapping Webs

WEB CODE: 24NE

DATE/TIME OPENED: 5 May 2003/10:00 DATE/TIME CLOSED: 9 May 2003/10:00

OBSERVERS: S. Blecker, J. Weaver, N. Kaplan

CURRENT WEATHER: Snowing

GENERAL WEATHER DURING SESSION: \_\_\_\_\_

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1									3 LEPID LARVAE 4 FORM
A2			1 ELEX						6 LEPID LARVAE 1 DIPTERA
A3			1 ELOB						5 LEPID LARVAE
A4									1 ROVERBECK 4 LEPID LARVAE
A5									8 LEPID LARVAE
B1			1 ELOB						
B2		✓							
B3			1 ELEX						12 LEPID LARVAE
B4					1 CURCH				4 LEPID LARVAE
B5			2 ELEX						2 LEPID LARVAE
C1			1 ELEX	2					1 ECHN
C2									5 LEPID LARVAE
C3			1 ELOB 2 ELEX			1 GRAY		1 HIER	1 LEPID LARVAE
C4			1 ELOB						1 DIPTERA 9 LEPID LARVAE
C5			1 ELOB	3					8 LEPID LARVAE
D1				2					6 LEPID LARVAE 1 FORM 1 LEPID
D2									3 LEPID LARVAE
D3					1 CURCH			1 GNAP	4 LEPID LARVAE 1 ADID
D4									10 LEPID LARVAE
D5			3 ELEX						2 LEPID LARVAE

D.E. JKW

P. Stapp, 4/98

5.9.03

## SGS-LTER Long-Term Monitoring Project Arthropod Abundance on Trapping Webs

WEB CODE: 25NE

WEB CODE: 25NE  
DATE/TIME OPENED: 5 May 2003/10:30 DATE/TIME CLOSED: 9 May 2003/10:30

OBSERVERS: S. Blecker, N. Kaplan, J. Weaver

CURRENT WEATHER: cloud, overcast, snow melted, raining

**GENERAL WEATHER DURING SESSION:**

[illegible]

D.E.  
5.9.03 SKW

P. Stapp, 4/98

SGS-LTER Long-Term Monitoring Project  
Arthropod Abundance on Trapping Webs

WEB CODE: 26NW

DATE/TIME OPENED: 5 May 2003/11:00 DATE/TIME CLOSED: 9 May 2003/11:00

OBSERVERS: S. Blecker, N. Kaplan, J. Weaver

CURRENT WEATHER: Cloudy, raining

GENERAL WEATHER DURING SESSION: \_\_\_\_\_

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	0		1 ELEX					1 LYCOS	2 LEPILARVAE 1 LEPID
A2	—								1 DIPTERA 1 LEPILARVAE
A3	0								2 LEPILARVAE
A4	—			3					2 LEPILARVAE
A5	0	✓	_____						
B1	0			1					
B2	/			2	1 SCARAB				3 LEPILARVAE
B3	0			1					1 LEPILARVAE
B4	/			3					4 LEPILARVAE 1 DIPTERA
B5	0		3 ELEX						
C1	0			1					1 LEPILARVAE
C2	/		1 ELEX		1 CNC				1 LEPILARVAE
C3	0								1 LEPILARVAE
C4	/			4					
C5	0		1 ELEX	5					
D1	/			1 LARVAE 1					1 LEPILARVAE
D2		✓	_____						
D3	/								2 DIPTERA
D4	/		1 ELEX						
D5	/					1 GRILL			1 APID 2 LEPILARVAE

5/17  
5.9.07

P.E.

WEB CODE: 27 NE  
 DATE/TIME OPENED: 5 May 2003/11:30  
 DATE/TIME CLOSED: 9 May 2003/11:20  
 OBSERVERS: J. Weaver, S. Becker, N. Kappan  
 CURRENT WEATHER: Cloudy, cold, raining  
 GENERAL WEATHER DURING SESSION:

	No.	In	Hoop	Trap
A1				Tenebrionidae (list by Spp)
A2				Carabidae
A3				Orthoptera
A4				Hemiptera
A5				Spiders
B1				Other beetles (list Family)
B2				
B3				
B4				
B5				
C1				
C2				
C3				
C4				
C5				
D1				
D2				
D3				
D4				
D5				



**SGS-LTER Long-Term Monitoring Project  
Arthropod Abundance on Trapping Webs**

P. Stapp, 4/98

WEB CODE: 135W

DATE/TIME OPENED: 6.6.03 1300 DATE/TIME CLOSED: 6.11.03 0930

OBSERVERS: J. Weaner, B. Grady, A. Gaylord, S. Black

CURRENT WEATHER: 30% cloud cover, slight breeze

GENERAL WEATHER DURING SESSION: Spotty rain showers / T-storms

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	1	/	2-ELFU	4				1-GNAPH	4-MOTH FORM
A2	2	/	1-EMCO, 2-ELFU	1					1-DIPT
A3	0	/	2-ELFU 1-ELOB	1		1-GRYAC			1-MOTH FORM 6-MOTH FORM
A4	—	✓							
A5	—	/							
B1	0	/	2-ELOR 2-ELFU	4					1-grub 12-fox 1-CURCU 1-FOR
B2	1	/	3-ELOR 1-ELFU 1-EMCO	9					4-ANTH FORM
B3	0	/	2-ELOR 1-ELOB 2-ELFU	1				1-GNAPH	1-MOTH FORM
B4	—	/							
B5	—	/	3-ELOR 1-ELOB 1-ELFU	4				1-GNAPH	2-FORM 1-MOTH
C1 (floored)	0	/		2				1-LYCO	6-FORM 3-FORM
C2	0	/	1-ELOB 1-EMPL (2 dots + red stripe)	1					
C3	0	/	1-EMCO	1				1-GNAPH	3-FORM
C4	—	/	1-ELFU	1					
C5 *	—	/	3-ELOB	1					
D1	—	/	1-ELFU	2					1-ANTH FORM 1-ACRID
D2	—	/	1-ELFU						2-FORM
D3	—	/	1-ELFU 2-ELOB	1					1-ANTH 3-FORM 2-FORM
D4	—	/	4-ELOR 1-ELOB						1-GRYAC
D5	—	/		1				2-GNAPH	2-FORM 1-ANTH 2-FORM

\* - spider mite? Acarina order

\* 5 - unknown (earwig?) → probably springtail



# SGS-LTER Long-Term Monitoring Project Arthropod Abundance on Trapping Webs

WEB CODE: 13NW

DATE/TIME OPENED: 6.6.03 1300

DATE/TIME CLOSED: 6.11.03 0900

OBSERVERS: Jamie Mauer, Seth Friday, Adam Gaylor, Steve Blecker

CURRENT WEATHER: 30% Cloud cover, slight breeze

GENERAL WEATHER DURING SESSION: 5pm Rain showers / Thunderstorms

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	φ			2				GNATH 1 CURCU	
A2	φ		2 ELFO				THER1	1 CURCU	
A3	φ		ELFO 1 ELFO 2	8			SALT 1	1 CURCU	
A4		—	ELFO 1					1 CURCU	
A5		—	ELFO 2 EMLO 2	2				1 CURCU	
B1	φ					1		1 CURCU	
B2	φ		ELFO 6	1				1 CURCU	
B3	φ	yes						FORMS-5	
B4				1				1 FORM	
B5			ELFO 1	1				1 FORM	
C1	φ						LYCOS(1)		
C2	φ		EL. Fusiformis (1)						
C3	φ		EL. Fusiformis (3)					4 FORMS	
C4			ELFO (2)	1				1 FORM	
C5			ELFO (2)					1 FORM	
D1			ELFO (1)					1 FORM	
D2			EL. obsoletus (1)	2				1 FORM	
D3			EL. obsoletus (1)					1 FORM	
D4			ELOR (1)					1 FORM	
D5			ELFO (1)	1				1 FORM	

X unknown (meth/bethang)

\*\* - Acarna Order

cont sum - EMCO

obscura - ELOR

SGS-LTER Long-Term Monitoring Project  
Arthropod Abundance on Trapping Webs

P. Stapp, 4/98

weevil - CURCU

WEB CODE: 24 NE?

DATE/TIME OPENED: 6.11.03 1030 DATE/TIME CLOSED: 6.6.03 1300

OBSERVERS: J. Weaver, B. Grady, A. Gaylord, S. Blocken, H. Walkenstorfer, S. Ratang

CURRENT WEATHER: 30% cloud cover slight breeze

GENERAL WEATHER DURING SESSION: spotty showers, T-storms

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera g-hopper	Hemiptera	Spiders	Other
A1	1	/	1-ELOR 3-ELEX 1-EMCO	2					1-CURCU 3- <del>MUTIL</del> FORM
A2	2	-							12- <del>xx</del> Acarina Order
A3	2	/	1-ELOR	2				1-THER	12-FORM
A4	/	/	1-ELFU						
A5	/	(✓)							
B1	Ø	-	1-ELFU						2- <del>MUTIL</del> FORM 1-CURCU
B2	Ø	-		2		1-GRYAC		1-GNAPH	
B3	Ø		2-ELOB 1-SCARB	7					1-MUTIL OK
B4	/	-	1-SCARB					1-LYCO	<del>1-<del>MUTIL</del>?</del>
B5 <i>(flooded)</i>	/		2-SCARB 1-ELFU	1					<del>1-<del>MUTIL</del>?</del>
C1	1	/	2-ELFU	4				1-THOM 1-GNAPH	1-CURCU
C2	1	-							1-FORM
C3	2	-	2-ELFU	2				1-LYCO	24-FORM
C4	/	/	1-ELOB 1-ELFU	1					1- <del>MUTIL</del> FORM
C5	/	/	<del>1-SCARB</del> 1-ELFU		<del>1-<del>known</del></del>			1-THER	<del>1-<del>MUTIL</del> FORM</del> 30-FORM
D1	-	-	1-ELOB	1					6-fleas?
D2	/	-		3					2-MUTIL 20-collembola?
D3	/	/						1-SALT	25-FORM
D4	/	/	1-EMCO	1				1-GNAPH 1-LYCO	2-earwig?
D5	/	/	2-EMCO	2				1-LYCO	1- <del>MUTIL</del> FORM

\*x Spider mite Acarina Order

\*NOTE: ~~very FORM~~ ~~reference~~



EMCC confusion  
ELOR obscura  
CURCU - weevil  
ELOB - obsolete

# SGS-LTER Long-Term Monitoring Project Arthropod Abundance on Trapping Webs

WEB CODE: 25 NE

DATE/TIME OPENED: 6.11.03 1115 DATE/TIME CLOSED: 6.6.03 1400

OBSERVERS: J. Weaver, B. Grady, S. Ratering, A. Gaylord, H. Wolkenstark, S. Blake

CURRENT WEATHER: 30% cloud cover, slight breeze

GENERAL WEATHER DURING SESSION: spotty showers / T-storms

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	1	—	3-ELFU 1-SCARB	1	—	—	—	—	1- <del>unknown</del> ? 1-CURCU
A2	0	—	—	4	—	—	—	—	—
A3	0	—	—	—	—	—	—	—	4-FORM
A4	—	—	1-ELOB	—	—	—	—	2-GNAPH	—
A5	—	—	3-ELFU	3	—	—	—	1-LYCO 1-SALT	—
B1	0	—	1-ELFU	—	—	—	—	1-LYCO	—
B2	0	—	—	2	—	—	—	1-LYCO	—
B3	1	—	3-ELFU <del>1-SCARB</del>	1	—	1-ACRID	—	1-GNAPH	1-unknown ant
B4	—	—	1-ELFU 1-SCARB	4	—	—	—	—	—
B5	—	5	—	—	—	—	—	—	—
C1	0	—	—	—	—	—	—	—	1-moth 1-CURCU
C2	0	—	—	—	—	—	—	—	<del>1-unknown</del> 10-FORM
C3	0	—	1-ELFU	1	—	—	—	—	1-CURCU 2- <del>sp</del> 1-moth
C4	—	—	3-ELFU	2	—	—	—	—	3-CURCU
C5	—	—	1-ELFU	2	—	—	—	—	1-CURCU
D1	—	—	1-ELFU	—	—	—	—	—	5-form
D2	—	—	1-EMMU 2-ELFU	—	1-unknown eleodes	—	—	—	—
D3	—	—	—	—	—	—	—	1-GNAPH	—
D4	—	—	—	—	3-unknown eleodes	—	—	—	1-VESA 1-CURCU
D5	—	—	2-ELFU	2	—	—	—	—	—

2 x spider mite?  
Acarina order

• same

ELOB - absolute  
ELOR - obscura

P. Stapp, 4/98

# SGS-LTER Long-Term Monitoring Project Arthropod Abundance on Trapping Webs

WEB CODE: Z6 NW

DATE/TIME OPENED: 6.11.03 1130 DATE/TIME CLOSED: 6.6.03 1400

OBSERVERS: J. Weaver, B. Grady, A. Gaylord, S. Ratering, H. Wolkenstorf, S. Black

CURRENT WEATHER: 30% cloud cover, slight breeze

GENERAL WEATHER DURING SESSION: spotty showers / T-storms

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	0	—	1-ELOR	5	—	—	—	—	1-MUTIL
A2	0	—	1-ELOB 1-ELOR	8	—	—	—	—	—
A3	1	—	1-SCARB <del>1-ELOR</del>	3	—	—	—	—	2-FORM
A4	—	—	2-ELFU 1-ELEX	10	—	—	—	—	2-CURCU
A5	—	—	3-SCARB 1-EMCO	4	—	—	—	—	1-MUTIL 1-moth larvae
B1	4	—	1-ELOB	1	—	—	—	—	—
B2	0	—	—	5	—	—	—	—	—
B3	0	—	1-ELFU	7	—	—	—	—	4-FORM
B4	—	—	1-ELFU	9	—	—	—	1-GNAPH	—
B5 (flooded)	—	—	1-FLEY	12	—	—	—	—	3-FORM
C1	0	—	1-EMMU	6	—	—	—	—	—
C2	2	—	1-ELFU	4	— 1-GRYAC	—	—	1-LYCO	1-FORM
C3	0	—	—	2	—	—	—	—	—
C4	—	—	—	8	—	—	—	1-THER	—
C5	—	—	—	4	—	—	—	—	1-FORM
D1	—	—	1-ELFU	14	—	—	—	—	—
D2	—	—	—	8	—	—	—	1-GNAPH	—
D3	—	—	—	8	—	—	—	—	4-FORM
D4	—	—	—	4	—	—	—	—	—
D5	—	—	1-ELFU	9	—	—	—	—	—



# SGS-LTER Long-Term Monitoring Project

## Arthropod Abundance on Trapping Webs

WEB CODE: 27NEDATE/TIME OPENED: 6.11.03 1200 DATE/TIME CLOSED: 6.6.03 1400OBSERVERS: J. Weaver, B. Grady, S. Raftering, A. Gaylord, H. Welkenstarfer, S. BleckeCURRENT WEATHER: 30% cloud cover / slight breezeGENERAL WEATHER DURING SESSION: spotty showers / T-storms

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	0	✓	_____	_____	_____	_____	_____	_____	_____
A2	1	—	_____	1	_____	_____	_____	2-THER	_____
A3	2	—	1-ELFU	_____	_____	_____	_____	1-LYCO 1-GNAPH	4-FORM
A4	—	—	1-EMCO	1	_____	_____	_____	1-THER 1-GNAPH	_____
A5	—	—	2-ELOR 1-ELOB	5	_____	_____	_____	_____	_____
B1	0	—	1-ELFU	1	_____	_____	_____	1-LYCO	1-CURCU
B2	0	—	_____	_____	_____	_____	_____	1-THER	_____
B3	1	—	_____	_____	_____	_____	_____	_____	yes → 3 Acarina order
B4	—	—	_____	2	_____	1-GRYAC	_____	_____	1-wind scorpion Sulphigida order
B5	—	—	2-ELOB 3-ELFU	3	_____	_____	_____	1-THER	1- <del>moth</del> FORM
C1	1	—	_____	_____	_____	1-GRYAC	_____	_____	1-moth larvae 15-FORM
C2	2	—	2-ELFU	1	_____	1-GRYAC 1-GRYL	_____	2-LYCO 1-GNAPH	3-FORM
C3	1	—	1-ELFU 1-EMCO 1-EMMU	_____	_____	_____	_____	1-GNAPH	_____
C4	—	—	_____	_____	_____	1-GRYAC	_____	_____	_____
C5	—	—	1-ELOR	4	_____	_____	_____	_____	_____
D1	—	—	1-SCARB 1-EMMU	1	_____	_____	_____	_____	1-FORM
D2	—	✓	_____	_____	_____	_____	_____	_____	_____
D3	—	—	1-ELOB	_____	_____	1-GRYAC	_____	_____	_____
D4	—	—	_____	3	_____	_____	_____	_____	1-moth larvae
D5	—	—	1-ELOR	2	_____	_____	_____	1-LYCO	_____

x2 spider mite?

# SGS-LTER Long-Term Monitoring Project

## Arthropod Abundance on Trapping Webs

WEB CODE: 13 SWDATE/TIME OPENED: 7.07.03DATE/TIME CLOSED: 7/11/03 9:25OBSERVERS: J. Weaver, S. Ratering, A. Gaylor, H. Wolkenstorfer, B. Grady

CURRENT WEATHER: \_\_\_\_\_

GENERAL WEATHER DURING SESSION: \_\_\_\_\_

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	Ø		EMPL-1 ELFU-1 ELHI-1 EFFU-1		SCARAB-1				FORM-6 CURCU-1
A2	Ø								FORM-1 MITE-1
A3	1			1					
A4				1					
A5									
B1	Ø			2					FORM-12
B2	Ø								FORM-5 GRVAC-1 UNKN- MYRH
* B3	Ø		ELOR-1 ELEX-1					GNAPH-3	FORM-3 Potato Bug
B4					SCARAB-4				FORM-5
B5				1				GNAPH-2	FORM-7 CURCU-1 softsqu.
C1	Ø				SMALL/WHITE-1				FORM-5
C2	Ø		ELOB-3		SCARAB-2				BEEH FORM-1
C3	Ø		ELOB-1						FORM-1
C4					SCARAB-4			SALT-1	FORM-2
C5			EMMU-2						FORM-1
D1									CURCU-1 GRVAC-1 FORM
D2			ELOR-1						FORM-2 UNKN NYMPH-1
D3			ELOB-1		SCARAB-1				FORM-5
D4			ELFU-3						Soft-2 FORM-4
D5					SCARAB-1			LYCO-1	



GENERAL WEATHER DURING SESSION:

[illegible]

GENERAL WEATHER DURING SESSION:

[illegible]



GENERAL WEATHER DURING SESSION:

[illegible]

# SGS-LTER Long-Term Monitoring Project

## Arthropod Abundance on Trapping Webs

WEB CODE: 26 NWDATE/TIME OPENED: 7.07.03DATE/TIME CLOSED: 7/11/03OBSERVERS: J. Weaver, S. Ratering, A. Gaylord, H. Wolkstein, B. BradyCURRENT WEATHER: Partly cloudy, Breezy, WarmGENERAL WEATHER DURING SESSION: Warm and windy

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	1	-	-	2	-	-	-	-	5-Forms
A2	Q	-	2-EMMU	6	-	-	-	1-LYGUS 4-SALT	1-CURCU 3-GRYAC
A3	Q	-	1-ELOB	1	-	-	-	1-GNAPH	2-SOLF 3-Forms
A4	-	-	2-ELFU	1	-	-	-	2-LYGUS	3-Forms 1-MUTIL 1-CLERIDAE
A5	-	-	Apsidopsis opaca	5	-	-	-	1-GNAPH 1-SALT	1-Form 1-MUTIL 1-CLERIDAE
B1	Q	-	2-ELOB 1-ELHI	2	-	-	-	-	-
B2	Q	yes	-	-	-	-	-	-	-
B3	Q	-	1-EMMU	2	-	-	-	1-GNAPH	-
B4	-	-	-	1	-	-	-	-	1 Form
B5	-	-	1-ELOB 1-ELHI	-	-	-	-	1-GNAPH	4-SCARAB 2-THOM
C1	Q	-	2-ELFU	-	-	-	-	-	1 Form
C2	Q	-	1-CERAM 1-ELFU	-	-	-	-	-	-
C3	Q	yes	-	-	-	-	-	-	-
C4	-	-	-	-	-	-	-	-	5-SCARAB 2-POARM 1-CURCU
C5	-	-	ELOB 1	-	-	-	-	-	3-POARM 2-SCARAB
D1	-	-	-	5	-	-	-	-	4-Forms
D2	-	-	1-EMLO	2	-	-	-	-	1-CURCU 3-Forms
D3	-	-	1-ELFU 1-CERAM	1	-	-	-	1-SALT	6-Forms
D4	-	-	1-ELFU	6	-	-	-	-	1-APR 3-Forms 1-SALT
D5	-	-	-	-	-	-	-	-	2-SCARAB 1-Form 6-MITES



# SGS-LTER Long-Term Monitoring Project

## Arthropod Abundance on Trapping Webs

WEB CODE: 27 NEDATE/TIME OPENED: 7.07.03DATE/TIME CLOSED: 7.11.03 11:30OBSERVERS: B. Grady, S. Packer, H. Wolkstein, A. GaylordCURRENT WEATHER: Partly Cloudy, Windy, WarmGENERAL WEATHER DURING SESSION: Warm & Windy

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	\	-	1-ELOR 1-EMMU	-	-	-	-	2-Lycos 1-SALT	1-MUTIL 5-Forms
A2	\	-	ELEX-1	-	-	-	-	-	3-SCARAB 2-MUTIL 5-Forms 1-CURCU
A3	1	-	ELEX-1	-	-	-	-	-	24-Form 1-GRYAC
A4	\	-							
A5	\	-		1					
B1	1	-	2-ELOB	2	-	-	-	1-Thom 1-Lycos	2-Forms
B2	2	-		1	-	-	-	-	2-MUTIL 2-Forms
B3	1	-		1	-	-	-	Lycos-1 GNAPH-1	3-Forms 1-MUTIL
B4	\	-	1-ELFU	2				SALT-1 GNAPH-1	20 Forms 2-Larvae
B5	\	-							1-SOLF 1-Form
C1	3	-	1-EMMU	-	-	-	-	3-GNAPH 1-Lycos	1-MUTIL 15-Forms
C2	5	-		1	-	-	-		20-Mites 1-MUTIL 10-Forms
C3	1	-	3-ELOB 1-EMMU	4	-	-	-	2-THEJA	
C4	\	-							1-CURCU 30-Mites 1-Lygaeidae 1-SCARAB 12-Forms
C5	\	-	5-ELOR 1-EMMU	3					1-Form
D1	\	-		4					
D2	\	-	1-EMMU	2	-	-	-	-	4-Forms 1-SCARAB
D3	\	-		-	-	-	-	-	6-Forms 1-SCARAB
D4	\	yes							
D5	\	-	1-ELOB					1-Lycos	6-Forms

# SGS-LTER Long-Term Monitoring Project

## Arthropod Abundance on Trapping Webs

WEB CODE: 27 NEDATE/TIME OPENED: 8/4/03DATE/TIME CLOSED: 8/8/03 - 10:00OBSERVERS: A. Baylond, L. Jamison, B. Vogel, B. GandyCURRENT WEATHER: Partly Cloudy

GENERAL WEATHER DURING SESSION: \_\_\_\_\_

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	1								1 CURCU 1 FORM ✓
A2	Ø								
A3	Ø		1 ASOP	1					1 FORM 2 MITES →
A4			1 ELOR ✓ 1 ELFU ✓						1 SOIF
A5									2 MITES
B1	Ø							✓ 1 GNAPA ✓ LYCO	
B2	Ø		1 ELOB ✓ 1 ELFU ✓	5					
B3	Ø								1 FORM 1 MITE
B4				2					2 CURCU ✓
B5				2				✓ 1 THER	
C1	Ø			1					
C2	Ø			2					10 FORMS 1 CURCU ✓
C3	Ø								
C4			1 ELFU ✓ 1 ELEX ✓	1				✓ 1 THER	1 FORM
C5			2 ELOB ✓ 1 ASPO ✓ 1 ELFU ✓	5					
D1			1 ELOB ✓ 1 ELRO ✓ ELOR ✓						10 FORMS
D2			1 ELEX ✓ 1 ELOR ✓						
D3								✓ 1 THER	
D4								✓ 1 THER	
D5				2				✓ 1 THER	2 CURCU ✓



# SGS-LTER Long-Term Monitoring Project

## Arthropod Abundance on Trapping Webs

WEB CODE: 13 SWDATE/TIME OPENED: 8/4/03DATE/TIME CLOSED: 8/8/03 8:25OBSERVERS: B. Grady, B. Vogel, A. Gaylord, L. JamisonCURRENT WEATHER: OVERCAST

GENERAL WEATHER DURING SESSION: \_\_\_\_\_

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	Ø								
A2	Ø		1 ELOR						2 FORM
A3	Ø			2					
A4									
A5								1 THER ✓	
B1	Ø		1 ELOR						7 FORMS
B2	Ø		1 ELOR						4 FORMS
B3	Ø		1 ELOR 1 ASOP					1 GNAPH ✓ ✓	1 CURCU ✓ 3 FORMS
B4			3 ASOP					1 GNAPH ✓	4 FORMS
B5			1 ELOR						10 FORMS
C1	Ø		1 EMCO						1 GRYAC ✓ 10 FORMS
C2	Ø								
C3	Ø		1 ASOP 1 ELFU						
C4			1 EMPL	1				1 THER ✓ ✓	3 FORMS 1 Asilidae
C5			2 ASOP 1 ELOR	2				2 GNAPH	5 FORMS
D1				1				1 THER ✓ ✓	3 FORMS
D2			1 ELOR 1 ELFU 1 ELOR	2				1 SALT ✓	5 FORMS
D3				1				1 LYCO ✓ ✓	1 FORM 30 MITES
D4			1 ASOP 1 ELOR	4					15 FORMS
D5				1				1 GNAPH ✓ ✓	1 CURCU ✓

Not  
opened

GENERAL WEATHER DURING SESSION:

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	Ø								1 FORM 1 MITE
A2	Ø			1					
A3	Ø		1 ELOR ✓ 1 ELFU ✓		1 SCARAB ✓				20 FORMS
A4									2 FORMS
A5			1 ELFU ✓ 2 ASOP ✓		1 SCARAB ✓				1 SKINK 20 6 SILPHS
B1	1 ✓								10 FORMS
B2	Ø								8 FORMS
B3	Ø								
B4			1 ELFU ✓	1					4 FORMS
B5									10 FORMS 1 CURCU ✓
C1	Ø								20 MITES
C2	Ø		1 ASOP ✓						5 MITES
C3	Ø								
C4			1 ELEX ✓ 1 ELHI ✓ 1 ELFU ✓					1 THER ✓	15 FORMS 1 SOLFS
C5									1 FLEA 5 FORMS
D1			1 ELSU ✓	1					7 FORMS
D2								1 THER ✓	
D3			1 ELOB ✓					1 THER ✓	1 CURCU ✓ 3 FORMS
D4									
D5									3 FORMS ✓ 2 CURCU ✓



# SGS-LTER Long-Term Monitoring Project

## Arthropod Abundance on Trapping Webs

WEB CODE: 24 NEDATE/TIME OPENED: 8/4/03DATE/TIME CLOSED: 8/8/03 - 9:35OBSERVERS: L. Jamison, B. Vogel, A. Gaylord, B. GradyCURRENT WEATHER: OVERCAST

GENERAL WEATHER DURING SESSION: \_\_\_\_\_

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	Ø		1 ELOR ✓ 3 ASOP ✓	2					1 GRYAC ✓ 5 FORMS
A2	Ø		1 ASOP ✓ 1 ELEX ✓	1				1 LYCO ✓	4 FORMS
A3	Ø								1 GRYAC ✓ 4 MITES
A4			1 ELOB ✓ 1 ELEX ✓	2					10 FORMS 5 MITES
A5									
B1	Ø			1					1 MOLE CRICKET ✓ 6 FORMS
B2	Ø								2 FORMS
B3	Ø								1 GRYAC ✓ 1 MOLE CRICKET ✓
B4								1 THER ✓	4 FORMS
B5								1 SALT ✓	1 FORM
C1	Ø		2 ELOB ✓ 1 ELFU ✓						2 FORMS 1 MULTIL
C2	Ø								1 GRILL ✓
C3	Ø			1					2 FORMS
C4	.								
C5			1 ELOB ✓						8 FORMS
D1				2					
D2			1 ELOR ✓ 1 ELEX ✓					1 THER ✓	1 MITE 7 FORMS
D3			1 EMCO ✓						
D4			1 EMMU ✓ 1 ELFU ✓					1 GNAPH ✓	2 GRYAC ✓ 5 FORMS
D5			1 ASOP ✓					1 THER ✓	

was indicated.

# SGS-LTER Long-Term Monitoring Project

## Arthropod Abundance on Trapping Webs

WEB CODE: 25 NEDATE/TIME OPENED: 8/4/03DATE/TIME CLOSED: 8/8/03 - 10:45OBSERVERS: B. Grady, L. Tamison, A. Gaylor, B. VogelCURRENT WEATHER: Partly cloudyGENERAL WEATHER DURING SESSION: 

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	Ø								
A2	Ø			2					2 FORMS
A3	Ø								
A4			1 EMMA 1 ELOR					1 THOR ✓	
A5			1 ELOR						1 MITE 6 FORMS 1 FORM
B1	Ø								
NOT OPENED B2	Ø								
B3	Ø			1					
B4								1 THER ✓	
B5			1 ASOP	10				1 LYCO ✓	
C1	Ø								
C2	Ø							1 THER ✓	
C3	2			1					10 FORMS
C4									
C5									1 CURCU ✓ 5 METES
D1								1 THER ✓	
D2				1					
D3								1 THER ✓	
D4								1 LYCO ✓	
D5				2					5 FORMS



# SGS-LTER Long-Term Monitoring Project

## Arthropod Abundance on Trapping Webs

WEB CODE: 26 NWDATE/TIME OPENED: 8/4/03DATE/TIME CLOSED: 8/8/03 - 10:30OBSERVERS: B. Vogel, L. Jamison, A. Gaylord, B. BradyCURRENT WEATHER: Partly Cloudy

GENERAL WEATHER DURING SESSION: \_\_\_\_\_

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1	Ø			1					1 FORM
A2	Ø			2					2 FORM
A3	1								
A4			1 ELFU	1	1 SCARAB			1 THER	3 FORMS
A5									
B1	Ø			1				1 THER	1 FORM
B2	1			7					
B3	1		1 ELOB	11					1 FORM 1 CURCU
B4								1 THER	
B5			1 ELOR	2					1 MELOD 2 FORMS 3 MITES
C1	Ø		2 ELEX	1				1 THER	
C2	1		1 ELOB	2				2 THER	2 FORMS
C3	Ø								1 FORM
C4								1 THER	
C5				1					1 MITE
D1								2 THER	
D2				5				1 THER	
D3				1					
D4				2	1 SCARAB			1 LYCO	
D5									

were not in  
computer!