Database Code: WE026

Title: Monitoring small mammal and amphibian abundances on the Willamette National Forest, Oregon (Long-Term Ecosystem Productivity experiment), 1995-1999

Abstract:

Previous descriptive and associative research approaches have identified associations between the amount of coarse woody debris (CWD) and either the occurrence or abundance of certain species of forest floor mammals and amphibians (e.g., Aubry et al. 1988, McComb et al. 1993). Managers are using information such as this along with observations regarding nutrient exchange sites around coarse woody debris to develop management guidelines for retention of woody debris following harvest. However, the hypothesis that retention of high levels of woody debris will result in the high numbers of certain species of forest floor vertebrates has not been tested in an experimental manner.

Keywords: Amphibians;Coarse woody debris;Long-Term Ecological Research (LTER);Mammals;Populations;Primary production;Small mammals;Populations;populations;Long-Term Ecological Research (LTER);primary production;coarse woody debris;amphibians;mammals;small mammals;

Date data commenced:1995-09-01

Date data terminated:1999-12-01

Principal Investigator: Steven L. Garman

List of Entities:

1. Captures

2. Comments

3. Trap status

4. Summary

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1. Captures

Attribute List:

STCODE	N	N	char(5)	freetext				
FORMAT	N	N	numeric(1,0)	range	1.0000	1.0000	number	
REPBLK	N	N	numeric(1,0)	range	1.0000	3.0000	number	
SUBPLOT	N	N	numeric(2,0)	range	1.0000	19.0000	number	
YEAR	N	N	numeric(4,0)	range			YYYY	
MONTH	N	N	numeric(2,0)	range			month	
DAY	N	N	numeric(2,0)	range			day	
TRANSECT	N	N	numeric(1,0)	range	1.0000	4.0000	number	
STATION	N	N	numeric(2,0)	range	1.0000	10.0000	number	
TRAPTYPE	N	N	char(1)	enum				
SPECIES	N	N	char(4)	taxa				
CAPSTATUS	N	N	char(2)	enum				
LIVEDEAD	N	N	char(1)	enum				
TAGLEFT	N	Y	char(5)	freetext				
TAGRIGHT	N	Y	char(5)	freetext				
TOENUMBER	N	Y	numeric(2,0)	range	1.0000	11.0000	number	

BODYLENGTH	N	Y	numeric(5,2)	range	1.0000	21.5000	cm
TAILLENGTH	N	Y	numeric(5,2)	range	1.0000	19.0000	cm
WEIGHT	N	Y	numeric(5,1)	range	1.0000	205.0000	g
SEX	N	N	char(1)	enum			
REPSTATUS	N	Y	char(2)	enum			
DEADNUMBER	N	Y	char(5)	freetext			
NOTENUMBER1	N	Y	numeric(1,0)	range	1.0000	5.0000	number
PROCESSED	N	Y	char(1)	enum			
PUBIC	N	Y	char(1)	enum			
PREG	N	Y	char(1)	enum			

2. Comments

Attribute List:

STCODE	N	N	char(5)	freetext			
FORMAT	N	N	numeric(1,0)	range	2.0000	2.0000	number
REPBLK	Y	N	numeric(1,0)	range	1.0000	3.0000	number
SUBPLOT	Y	N	numeric(2,0)	range	1.0000	19.0000	number
YEAR	Y	N	numeric(4,0)	range			YYYY
MONTH	Y	N	numeric(2,0)	range			month
DAY	Y	N	numeric(2,0)	range			day
TRANSECT	Y	N	numeric(1,0)	range	1.0000	4.0000	number
STATION	Y	N	numeric(2,0)	range	1.0000	10.0000	number
TRAPTYPE	N	N	char(1)	enum			
SPECIES	N	N	char(4)	taxa			
NOTENUMBER2	Y	N	numeric(1,0)	range	1.0000	4.0000	number
COMMENT	N	N	varchar(100)	freetext			

3. Trap status

Attribute List:

STCODE	N	N	char(5)	freetext			
FORMAT	N	N	numeric(1,0)	range	3.0000	3.0000	number
REPBLK	N	N	numeric(1,0)	range	1.0000	3.0000	number
SUBPLOT	N	N	numeric(2,0)	range	1.0000	19.0000	number
YEAR	N	N	numeric(4,0)	range			YYYY
MONTH	N	N	numeric(2,0)	range			month
DAY	N	N	numeric(2,0)	range			day

TRANSECT	N	N	numeric(1,0)	range	1.0000	4.0000	number
STATION	N	N	numeric(2,0)	range	1.0000	10.0000	number
TRAPTYPE	N	N	char(1)	enum			
STATUS	N	N	char(6)	enum			

4. Summary

Attribute List:

STCODE	N	N	char(5)	freetext			
FORMAT	N	N	numeric(1,0)	range	4.0000	4.0000	number
REPBLK	Y	N	numeric(1,0)	range	1.0000	3.0000	number
SUBPLOT	Y	N	numeric(2,0)	range	1.0000	19.0000	number
YEAR	Y	N	numeric(4,0)	range			YYYY
SPECIES	Y	N	char(4)	taxa			
SHERMN	N	Y	numeric(5,0)	range	0.0000	52.0000	number
SHERMR	N	Y	numeric(5,0)	range	0.0000	97.0000	number
SHERMT	N	Y	numeric(5,0)	range	0.0000	130.0000	number
PITN	N	Y	numeric(5,0)	range	0.0000	19.0000	number
PITR	N	Y	numeric(5,0)	range	0.0000	2.0000	number
PITT	N	Y	numeric(5,0)	range	0.0000	20.0000	number
TOTALI	N	Y	numeric(5,0)	range	0.0000	52.0000	number
TOTALR	N	Y	numeric(5,0)	range	0.0000	97.0000	number
TOTALCAP	N	Y	numeric(5,0)	range	0.0000	130.0000	number
SHERMD	N	Y	numeric(5,0)	range	0.0000	15.0000	number
PITD	N	Y	numeric(5,0)	range	0.0000	15.0000	number
TOTALD	N	Y	numeric(5,0)	range	0.0000	18.0000	number
MORTRATE	N	Y	numeric(8,4)	range	0.0000	100.0000	number
SHERMCAP	N	Y	numeric(8,4)	range	0.0000	9.6300	number
PITCAP	N	Y	numeric(8,4)	range	0.0000	5.9380	number
TOTALRATE	N	Y	numeric(8,4)	range	0.0000	6.0470	number
MAXSHERM	N	Y	numeric(5,0)	range	560.0000	640.0000	number
UNDSHERM	N	Y	numeric(5,0)	range	327.0000	640.0000	number
MAXPIT	N	Y	numeric(5,0)	range	88.0000	320.0000	number
UNDPIT	N	Y	numeric(5,0)	range	88.0000	320.0000	number
MAXTOT	N	Y	numeric(5,0)	range	728.0000	960.0000	number
UNDTOT	N	Y	numeric(5,0)	range	647.0000	960.0000	number

Attributes Definitions:

BODYLENGTH

Body length

CAPSTATUS

Capture status

COMMENT

Comment

DAY

Day/(day of week in 1995)

DEADNUMBER

Id of specimen

FORMAT

Format number

LIVEDEAD

Live/dead status

MAXPIT

Maximum number of pitfall trap nights

MAXSHERM

Maximum number of sherman trap nights

MAXTOT

Maxumum number of trap nights (pitfall+sherman)

MONTH

Month/(week in 1995)

MORTRATE

Mortality rate (deaths/individuals)

NOTENUMBER1

Note number for table 1

NOTENUMBER2

Note number for table 2

PITCAP

Same as shermcap but for pitfall traps

PITD

Total number of deaths in pitfalls

PITN

Number of individuals captured in pitfall traps

PITR

Number of recaptures in pitfall traps

PITT

Total number of captures in pitfalls traps

PREG

Pregnancy condition (1995)

PROCESSED

Processing code

PUBIC

Pubic symphysis (1995)

REPBLK

Replicate block

REPSTATUS

Reproductive condition

SEX

Gender

SHERMCAP

Number of individuals captured in shermans/100 undisturbed sherman trap nights

SHERMD

Total number of deaths in shermans

SHERMN

Number of individuals captured in sherman traps

SHERMR

Number of individuals recaptured in sherman traps

SHERMT

Total captures in sherman traps

SPECIES

Species

STATION

Station

STATUS

Trap status

STCODE

Study code

SUBPLOT

Subplot

TAGLEFT

Tag number - left ear

TAGRIGHT

Tag number - right ear

TAILLENGTH

Tail length

TOENUMBER

Toe number

TOTALCAP

Total number of captures

TOTALD

Total number of deaths

TOTALI

Total number of individuals captured

TOTALR

Total number of recaptures

TOTALRATE

Total number of individuals/100 undisturbed trap nights (pitfall+sherman)

TRANSECT

Transect

TRAPTYPE

Type of trap

UNDPIT

Number of undistrubed pitfall trap nights

UNDSHERM

Number of undisturbed sherman trap nights

UNDTOT

Total number of undistrubed trap nights (pitfall+sherman)

WEIGHT

Total weight

YEAR

Year

Enumerated Domains:

Enumerated Domain for Attribute: CAPSTATUS

E	escaped before any data could be ascertained
N	new
NE	new capture, but escaped prior to being tagged
P	torn ears; possible tag lost and recapture
R	recapture
RE	recapture, but escaped prior to being tagged

RT   retagged

Enumerated Domain for Attribute: LIVEDEAD
D   dead

L   live

Enumerated Domain for Attribute: PREG
0   unknown or not pregnant

1   pregnant

Enumerated Domain for Attribute: PROCESSED
0   normal

1   trap checked more than once a day

Enumerated Domain for Attribute: PUBIC
0   unknown

1   closed (nulliparous)

2   partly open (parous)

3   wide open (recent parturition)

Enumerated Domain for Attribute: REPSTATUS
-1   unknown

L   lactating

NL   not lactating

P   parous

TD   testes descended

TR   testes recessed

U   unknown

Enumerated Domain for Attribute: SEX
F   female

M   male

U   unknown

Enumerated Domain for Attribute: TRAPTYPE
P   pitfall

S   Sherman

U   unknown

Enumerated Domain for Attribute: TRAPTYPE
P   pitfall

S   Sherman

U   unknown

Enumerated Domain for Attribute: STATUS
      SPRUNG   indicates closed/distrubed trap

Enumerated Domain for Attribute: TRAPTYPE
      P   pitfall

      S   Sherman

      U   unknown