

Database Code: TD020

Title:Respiration patterns of logs in the Pacific Northwest, 1986-1996

Abstract:

To examine the seasonal and successional patterns of respiration losses for four species (*Abies amabilis*, *Pseudotsuga menziesii*, *Thuja plicata*, *Tsuga heterophylla*), and two positions (top and side). Periodically this set of logs is examined for respirations rates.

Keywords:Coarse woody debris;Decomposition;Detritus;Long-Term Ecological Research (LTER);Organic matter;Respiration;Seasonal patterns;Organic matter;Long-Term Ecological Research (LTER);temporal properties;seasonality;respiration;decomposition;detritus;coarse woody debris;organic matter;

Date data commenced:1986-01-10

Date data terminated:1996-09-30

Principal Investigator:Mark E. Harmon

List of Entities:

1. Respiration Measurements - Raw Data
2. Control Cylinders, Duration of Measurements, Temperature
3. Start and End Dry Weights- Raw Data - Sodalime Method
4. Control Chamber Start and End Dry Weights and Times

1. Respiration Measurements - Raw Data

Attribute List:

DATACODE	N	N	char(5)	freetext			
FORMAT	N	N	numeric(1,0)	range	1.0000	1.0000	number
YEAR	Y	N	numeric(4,0)	range			YYYY
DAY	Y	N	numeric(3,0)	range			julian day number
SITE	Y	N	numeric(1,0)	range	1.0000	6.0000	number
LOG	Y	N	numeric(3,0)	range	5.0000	505.0000	number
POSITION	Y	N	char(1)	enum			
ENDVOL	N	Y	numeric(7,3)	range	0.0000	250.0000	ml
STARTVOL	N	Y	numeric(7,3)	range	0.0000	250.0000	ml

2. Control Cylinders, Duration of Measurements, Temperature

Attribute List:

DATACODE	N	N	char(5)	freetext			
FORMAT	N	N	numeric(1,0)	range	2.0000	2.0000	number
SITE	Y	N	numeric(1,0)	range	1.0000	6.0000	number
HOURLSTAR	Y	N	numeric(4,0)	range	0.0000	1800.0000	HHMM
YEARSTAR	Y	N	numeric(4,0)	range			YYYY
DAYSTART	Y	N	numeric(3,0)	range			julian day number
HOUREND	N	N	numeric(4,0)	range	0.0000	1710.0000	HHMM

YEAREND	N	N	numeric(2,0)	range			YYYY
DAYEND	N	N	numeric(3,0)	range			julian day
ENDVOL	N	N	numeric(7,3)	range	0.0000	248.4350	ml
STARTVOL	N	N	numeric(7,3)	range	0.0000	248.3400	ml
TEMP1	N	Y	numeric(4,1)	range	-1.3000	24.9000	deg c
TEMP2	N	Y	numeric(4,1)	range	-0.9000	25.6000	deg c
TEMP3	N	Y	numeric(4,1)	range	-0.9000	25.0000	deg c

3. Start and End Dry Weights- Raw Data - Sodalime Method

Attribute List:

DATACODE	N	N	char(5)	freetext			
FORMAT	N	N	numeric(1,0)	range	3.0000	3.0000	number
YEAR	N	N	numeric(4,0)	range			YYYY
DAY	Y	N	numeric(3,0)	range			julian day
SITE	Y	N	numeric(1,0)	range	1.0000	6.0000	number
LOG	Y	N	numeric(3,0)	range	5.0000	505.0000	number
POSITION	Y	N	char(1)	enum			
ENDWGHT	N	Y	numeric(7,3)	range	0.0000	248.2300	g
STRTWGHT	N	Y	numeric(7,3)	range	0.0000	248.0400	g

4. Control Chamber Start and End Dry Weights and Times

Attribute List:

DATACODE	N	N	char(5)	freetext			
FORMAT	N	N	numeric(1,0)	range	4.0000	4.0000	number
SITE	Y	N	numeric(1,0)	range	1.0000	6.0000	number
HOURLSTAR	Y	N	numeric(4,0)	range	544.0000	1702.0000	HHMM
YEARSTAR	N	N	numeric(4,0)	range			YYYY
DAYSTART	N	N	numeric(3,0)	range			julian day
HOUREND	N	N	numeric(4,0)	range	545.0000	1640.0000	HHMM
YEAREND	N	N	numeric(2,0)	range			YYYY
DAYEND	N	N	numeric(3,0)	range			julian day
ENDWGHT	N	N	numeric(7,3)	range	238.1200	248.3050	g
STRTWGHT	N	N	numeric(7,3)	range	237.9750	248.1650	g

Attributes Definitions:

DATACODE

Database code

DAY

Day that measurement was taken expressed as a julian day

DAYEND

Julian day that measurement ended

DAYSTART

Julian day that measurement started

ENDVOL

Method change during study, see notes in TD20.abs

ENDWGHT

End dry weight of sodalime

FORMAT

Entity number

HOUREND

Hour and minutes that measurement ended 24 hour clock

HOURSTAR

Hour and minutes that measurement started based on 24 hour clock hhmm

LOG

Log that measurement was taken from refers to same logs as the log decay experiment

POSITION

Chamber position on logs; t=chamber on log top, s=chamber on log side

SITE

Site number (same sites as in database TD14)

STRTWGHT

Starting dry weight of sodalime

TEMP1

Mean air temperature the day before the measurement was taken

TEMP2

Mean air temperature the day the measurement was taken

TEMP3

Mean air temperature the second day the measurement was taken

YEAR

Year that measurement was taken

YEAREND

Year that measurement ended

YEARSTAR

Year that measurement started

Enumerated Domains:

Enumerated Domain for Attribute: POSITION

- T TOP OF LOG RESPERATION CHAMBER POSITION
- S SIDE OF LOG RESPERATION CHAMBER POSITION

Enumerated Domain for Attribute: POSITION

- T TOP OF LOG RESPERATION CHAMBER POSITION
- S SIDE OF LOG RESPERATION CHAMBER POSITION