

Database Code: DF007

Title: Dendrochronology study of fire history, Andrews Experimental Forest and central western Cascades, Oregon, 1482-1952

Abstract:

Fire history is documented for an 11,000 hectare (27,110 acre) area in the western Oregon Cascades , including H. J. Andrews Experimental Forest. Fire scar and tree origin data were collected mainly from stumps at 359 sites. Thirty-five fire events are mapped from 1482 to 1952. Mean fire return intervals are derived from data at individual sites, about 5 hectares in size, rather than from the corrected master fire chronology.

Keywords: Dendrochronology; Disturbance; Fire; Fire history; Fire regimes; Long-Term Ecological Research (LTER); Disturbance; Long-Term Ecological Research (LTER); history; dendrochronology; fires; disturbance; fire history;

Date data commenced: 1984-01-10

Date data terminated: 1987-08-31

Principal Investigator: Frederick J. Swanson

List of Entities:

1. Fire history and fire regimes
2. Corrected master fire chronology

1. Fire history and fire regimes

Attribute List:

DBC CODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(1,0)	range	1.0000	1.0000	number
SITE CODE	Y	N	char(10)	place			
SITE_NUMBER	N	N	numeric(3,0)	range	1.0000	575.0000	number
ELEVATION	N	N	numeric(4,0)	range	1550.0000	5050.0000	ft
ASPECT	N	N	char(2)	enum			
FIRE_COUNT	N	N	numeric(2,0)	range	1.0000	15.0000	number
AGE_CLASS_COUNT	N	N	numeric(1,0)	range	1.0000	8.0000	number
UNDERBURN_COUNT	N	N	numeric(2,0)	range	0.0000	11.0000	number
RETURN_INT_COMP	N	N	numeric(3,0)	range	9.0000	428.0000	years
RETURN_INT_STAND	N	N	numeric(3,0)	range	9.0000	428.0000	years
LENGTH_REC	N	N	numeric(3,0)	range	9.0000	475.0000	years
HABITAT_TYPE	N	N	char(2)	enum			

2. Corrected master fire chronology

Attribute List:

DBC CODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(1,0)	range	2.0000	2.0000	number
SITE CODE	Y	N	char(10)	place			
SITE_NUMBER	N	N	numeric(3,0)	range	1.0000	575.0000	number

YEAR	Y	N	numeric(4,0)	range	1435.00001935.0000	YYYY
FIRE_HISTORY	N	N	char(1)	enum		

Attributes Definitions:

AGE_CLASS_COUNT

Number of age-classes

ASPECT

General aspect

DBCODE

FSDB database code

ELEVATION

Elevation

ENTITY

Entity number

FIRE_COUNT

Number of fires recorded

FIRE_HISTORY

Description of presence of fire, fire scars or origin dates

HABITAT_TYPE

Habitat type, following syntax of Dyrness, Franklin, and Moir (1974)

LENGTH_REC

Length of fire record

RETURN_INT_COMP

Composite mean fire return interval

RETURN_INT_STAND

Stand (or partial stand) replacement mean fire return interval

SITE_NUMBER

Site number

SITECODE

Teensma site codes

UNDERBURN_COUNT

Number of recorded underburns

YEAR

Year of fire history notation from tree ring date

Enumerated Domains:

Enumerated Domain for Attribute: ASPECT

B	Valley bottom
E	East

N	North
NE	Northeast
NW	Northwest
R	Ridgetop
S	South
SE	Southeast
SW	Southwest
W	West

Enumerated Domain for Attribute: HABITAT_TYPE

01	PSME/HODI douglas-fir zone
02	PSME-TSHE/COCOCA transition zone
03	TSHE/CACH western hemlock zone
04	TSHE/RHMA-GASH western hemlock zone
05	TSHE/RHMA-BENE western hemlock zone
06	TSHE/ACCI western hemlock zone
07	TSHE/POMU western hemlock zone
08	TSHE/POMU-OXOR western hemlock zone
09	TSHE-ABAM/RHMA-BENE transition zone
10	TSHE-ABAM/ACCI-BENE transition zone
11	TSHE-ABAM/LIBO transition zone
12	ABAM/TSME-XETE silver fir zone
13	ABAM/VAMA-XETE silver fir zone
14	ABAM/RHMA-XETE silver fir zone
15	ABAM/VAAL-COCA silver fir zone
16	ABAM/ACTR silver fir zone
17	ABAM/TIUN silver fir zone
99	Undetermined/unmapped; not within H.J. Andrews Experimental Forest.
18	Habitat 18 is undefined

Enumerated Domain for Attribute: DBCODE

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Enumerated Domain for Attribute: DBCODE

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Enumerated Domain for Attribute: FIRE_HISTORY

0	No data, i.e., no trees present at this site in 1985 are old enough to have been present at the time of this fire
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- 1 Fire scar(s) present for this fire episode
- 2 Regeneration (origin dates) recorded for this fire episode
- 3 Both fire scars and origin dates recorded for this fire episode
- 4 No record of fire, but trees present at this site in 1985 are old enough to have been present at the time of this fire