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:**

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Data Type</th>
<th>Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBCODE</td>
<td>N N</td>
<td>char(5) enum</td>
<td></td>
</tr>
<tr>
<td>ENTITY</td>
<td>N N</td>
<td>numeric(1,0)</td>
<td>range 1.0000 1.0000 number</td>
</tr>
<tr>
<td>SITECODE</td>
<td>Y N</td>
<td>char(10) place</td>
<td></td>
</tr>
<tr>
<td>SITE_NUMBER</td>
<td>N N</td>
<td>numeric(3,0)</td>
<td>range 1.0000 575.0000 number</td>
</tr>
<tr>
<td>ELEVATION</td>
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<td>range 1550.0000 5050.0000 ft</td>
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<tr>
<td>ASPECT</td>
<td>N N</td>
<td>char(2) enum</td>
<td></td>
</tr>
<tr>
<td>FIRE_COUNT</td>
<td>N N</td>
<td>numeric(2,0)</td>
<td>range 1.0000 15.0000 number</td>
</tr>
<tr>
<td>AGE_CLASS_COUNT</td>
<td>N N</td>
<td>numeric(1,0)</td>
<td>range 1.0000 8.0000 number</td>
</tr>
<tr>
<td>UNDERBURN_COUNT</td>
<td>N N</td>
<td>numeric(2,0)</td>
<td>range 0.0000 11.0000 number</td>
</tr>
<tr>
<td>RETURN_INT_COMP</td>
<td>N N</td>
<td>numeric(3,0)</td>
<td>range 9.0000 428.0000 years</td>
</tr>
<tr>
<td>RETURN_INT_STAND</td>
<td>N N</td>
<td>numeric(3,0)</td>
<td>range 9.0000 428.0000 years</td>
</tr>
<tr>
<td>LENGTH_REC</td>
<td>N N</td>
<td>numeric(3,0)</td>
<td>range 9.0000 475.0000 years</td>
</tr>
<tr>
<td>HABITAT_TYPE</td>
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<td>char(2) enum</td>
<td></td>
</tr>
</tbody>
</table>

### 2. Corrected master fire chronology

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<tr>
<td>ENTITY</td>
<td>N N</td>
<td>numeric(1,0)</td>
<td>range 2.0000 2.0000 number</td>
</tr>
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<td>SITECODE</td>
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<td>char(10) place</td>
<td></td>
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<td>SITE_NUMBER</td>
<td>N N</td>
<td>numeric(3,0)</td>
<td>range 1.0000 575.0000 number</td>
</tr>
</tbody>
</table>
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
DF007  FSDB database code DF007

Enumerated Domain for Attribute: DBCODE
DF007  FSDB database code DF007

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
<table>
<thead>
<tr>
<th></th>
<th>Fire scar(s) present for this fire episode</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Regeneration (origin dates) recorded for this fire episode</td>
</tr>
<tr>
<td>3</td>
<td>Both fire scars and origin dates recorded for this fire episode</td>
</tr>
<tr>
<td>4</td>
<td>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</td>
</tr>
</tbody>
</table>