**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:**

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBCODE</td>
<td>N N</td>
<td>char(5) enum</td>
</tr>
<tr>
<td>ENTITY</td>
<td>N N</td>
<td>numeric(1,0) range 1.0000 1.0000 number</td>
</tr>
<tr>
<td>SITECODE</td>
<td>Y N</td>
<td>char(10) place</td>
</tr>
<tr>
<td>SITE_NUMBER</td>
<td>N N</td>
<td>numeric(3,0) range 1.0000 575.0000 number</td>
</tr>
<tr>
<td>ELEVATION</td>
<td>N N</td>
<td>numeric(4,0) range 1550.0000 5050.0000 ft</td>
</tr>
<tr>
<td>ASPECT</td>
<td>N N</td>
<td>char(2) enum</td>
</tr>
<tr>
<td>FIRE_COUNT</td>
<td>N N</td>
<td>numeric(2,0) range 1.0000 15.0000 number</td>
</tr>
<tr>
<td>AGE_CLASS_COUNT</td>
<td>N N</td>
<td>numeric(1,0) range 1.0000 8.0000 number</td>
</tr>
<tr>
<td>UNDERBURN_COUNT</td>
<td>N N</td>
<td>numeric(2,0) range 0.0000 11.0000 number</td>
</tr>
<tr>
<td>RETURN_INT_COMP</td>
<td>N N</td>
<td>numeric(3,0) range 9.0000 428.0000 years</td>
</tr>
<tr>
<td>RETURN_INT_STAND</td>
<td>N N</td>
<td>numeric(3,0) range 9.0000 428.0000 years</td>
</tr>
<tr>
<td>LENGTH_REC</td>
<td>N N</td>
<td>numeric(3,0) range 9.0000 475.0000 years</td>
</tr>
<tr>
<td>HABITAT_TYPE</td>
<td>N N</td>
<td>char(2) enum</td>
</tr>
</tbody>
</table>

### 2. Corrected master fire chronology

**Attribute List:**

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<tr>
<td>ENTITY</td>
<td>N N</td>
<td>numeric(1,0) range 2.0000 2.0000 number</td>
</tr>
<tr>
<td>SITECODE</td>
<td>Y N</td>
<td>char(10) place</td>
</tr>
<tr>
<td>SITE_NUMBER</td>
<td>N N</td>
<td>numeric(3,0) 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
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