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>
<th>Range</th>
<th>Units</th>
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<tbody>
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<td></td>
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</tr>
<tr>
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<td>RETURN_INT_STAND</td>
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### 2. Corrected master fire chronology

**Attribute List:**

<table>
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<tr>
<th>Attribute</th>
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<th>Units</th>
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</thead>
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<td>range</td>
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Database Code: DF007
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<tbody>
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<td>Y N numeric(4,0) range 1435.0000 1935.0000 YYYY</td>
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<tr>
<td>FIRE_HISTORY</td>
<td>N N char(1) enum</td>
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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>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fire scar(s) present for this fire episode</td>
</tr>
<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>