FIRE HISTORY DATABASE OF THE WESTERN UNITED STATES

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INTERAGENCY AGREEMENT DW12934530
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FIRE HISTORY DATABASE OF THE WESTERN UNITED STATES: FINAL REPORT

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INTRODUCTION

Human activities are changing the chemical composition of the atmosphere at an unprecedented rate, which may lead to significant changes in climate (Bolin and others 1986; Houghton and others 1990, 1992). These climatic changes could directly alter fire frequency, extent and severity by changing the amount, distribution and seasonality of precipitation and other factors that influence fire (Clark 1990; Flannigan and Van Wagner 1991). Climate may also change the rate of forest production, mortality and decomposition which will change the amount and distribution of fuel, hence indirectly alter fire regimes (Clark 1990). In addition, changes in climate could alter the global distribution of forest life-zones (Emanuel and others 1985; Leverenz and Lev 1987; Smith and others 1992). The rate at which forest communities adjust to climate change will be controlled in part by disturbance processes, primarily fire and land use practices (Overpeck and others 1990). Fire is the dominant natural disturbance in many parts of the western United States (Pyne 1982; Agee 1993) where steep topographic and climatic gradients result in a great variety of fire regimes. A continental-scale fire frequency model is being developed by the National Center for Atmospheric Research (Bergengren, NCAR, Boulder, CO) as an essential component of a broad-scale vegetation model used to predict the response of vegetation of global climate change. The database reported here contains existing tree-ring reconstructions of past forest fire regimes in the western continental United States (exclusive of Alaska) that can be used to calibrate and verify this and other fire models.

Fire frequency in forested areas can be reconstructed by dating the annual ring in which fire scars form and/or estimating the year of origin of stands that regenerate after fire (e.g. Barrett and Arno 1988, Sheppard and others 1988). The annual rings are either dated dendrochronologically using prepared samples (by crossdating; Stokes and Smiley 1968) or by ring-counting, in the field or laboratory, using minimally prepared samples. Fire extent is estimated from the number and spatial distribution of trees or sites recording fire in a given year (e.g. Agee and others 1990, Swetnam and Dieterich 1985; Baisan and Swetnam 1990) or by using landscape-scale age structure models (Johnson and van Wagner 1985). Numerous fire histories, reconstructed from tree-rings for small portions of the western United States, are available from both published and unpublished sources. These reconstructions cover a wide variety of vegetation types and topographic settings.

OBJECTIVES

The objective of this project was to create a database of existing published and unpublished tree-ring reconstructions of fire regimes in forested areas, before circa 1900, west of 100°W in the continental United States, exclusive of Alaska. The database includes only information that is provided in the studies or site information that can be gathered with minimal effort from other sources. Site locations and fire regimes are mapped (appendices E through G) but not interpolated.

The studies included in the database are restricted to tree-ring reconstructions of fire history and the information extracted includes citations to the data sources, site information, estimated fire

regimes, and information on individual fire events (when readily available). Appendix A is a detailed description of the fields in each of the four database files and appendices B through D contain the contents of the database files.

Fire regimes vary greatly across short distances in the western United States, so that a reconstruction of fire history over a small area may not represent the history of a larger area. Therefore, we extracted information on the size of the study area and the amount of fire evidence (number of trees scarred and/or number of tree origin dates) used in computing the fire regimes to allow the user to gauge the applicability of each reconstruction to larger areas.

DATA SOURCES

One hundred and sixteen fire history studies (Appendix B) covering 623 sites were identified by searching the extensive literature and data collections of the personnel involved in this work and by keyword searching of the International Bibliography of Wildland Fire (International Association of Wildland Fire 1993) and the bibliography of the International Tree-Ring Data Bank (ITRDB 1992). 87 of the 116 studies are published, 19 are unpublished theses or dissertations and 10 are unpublished reports. The reconstruction of fire history was the primary purpose of 84 of the 116 studies. The remaining studies reconstructed fire history as part of multipurpose studies, e.g. studies of forest development or the interaction of fire with insects and/or fungi.

THE FIRE HISTORY DATABASE

1) Amount of fire history information.

a) *Evidence of fire.* At 41% of the sites, fire history was reconstructed using both fire scars and stand origin dates; at 9% of the sites only stand origin dates were used; and at the remaining 50% of the sites only fire scars were used. The number of trees used to estimate the reported fire regimes by site ranged from 1 to 3500 with an average of 29 per site. The number of fires used to estimate these same fire regimes ranged from 0 to 68 with an average of 9 per site.

b) *Dating method.* Most studies dated fires by counting rings on minimally-prepared samples, some of these studies adjusted fire dates by matching patterns of fire years between samples. Ring widths were dendrochronologically crossdated at only 19% of the sites.

c) *Period of record.* The longest fire histories in the database date to before the year 400, however, the majority of the reconstructions date only to the 1600's (87% of sites). Very few studies reported fire regimes during more than one time period (e.g. by century; <5% of sites).

d) *Size of study area.* The size of the study area was given or determined from maps for 60% of the sites. The size of these sites ranged from 0 (for point frequencies) to 492,500 ha with an average of 5751 ha.

e) *Information on individual fires.* Most studies gave some information about individual fires (72%), however, very few studies gave the extent of individual fires (8% of individual fires). 40% of the studies included the number of trees used to reconstruct the individual fires (average of 3 trees per fire with a range from 1 to 80).

2) Site characteristics.

a) *Geographic distribution.* The database includes fire history reconstructions from 12 western states plus several studies from Minnesota and one from Kansas (figure 1).

Figure 1. Location of sites included in the Fire History Database. (See Appendix E for site location maps labeled with reference/site number, by state).

b) *Distribution by Küchler (1964) class.* The study sites in the database were classified according to Küchler's (1964) potential natural vegetation type (figure 2, table A3). Because many of the studies provided neither the site size nor the area over which the reconstructions could reasonably be extrapolated, the percentage of sites is used here as a crude indication of land area sampled. Over 50% of the sites were sampled in just three Küchler classes: redwood, Douglas-fir and western spruce-fir. Because it is based on tree-ring reconstructions, this database considers only forested areas, however 60% of the combined land area of the states represented in this database is non-forested.

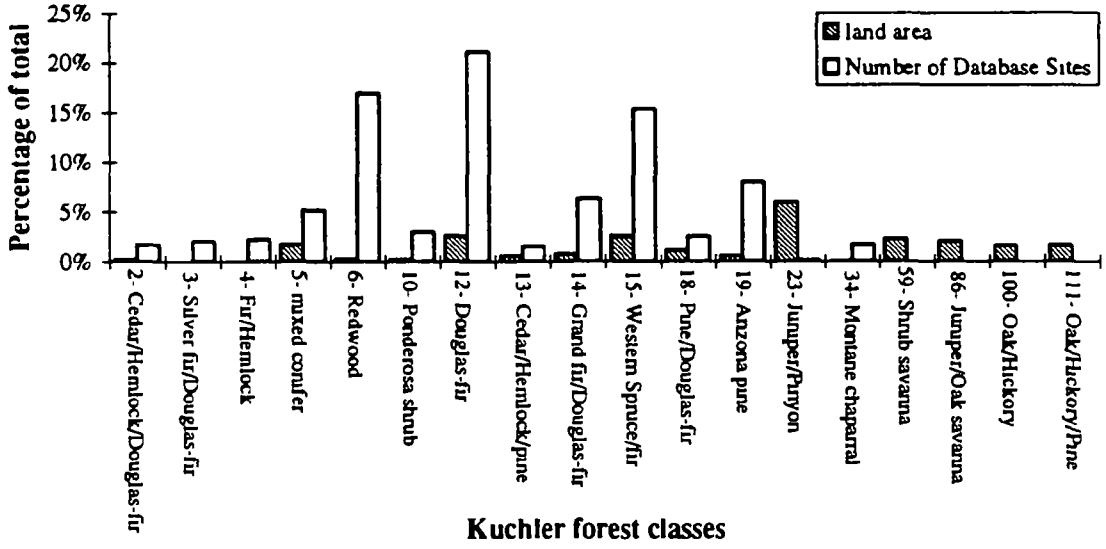

Figure 2. Distribution of study sites among selected potential natural vegetation types in relation to the total land area occupied by that vegetation type in the western United States. Percentage of a) total land area in the western United States and b) number of sites in the database (623 total), by Küchler class See table A3 for a complete listing of the potential natural vegetation types used in the database.

c) *Distribution by elevation.* The elevation range of the study sites included in the database is 15 to 3658 m with an average of 1528 m (figure 3).

d) *Distribution by slope* (figure 4). At the sites for which slope was given, twice as many sites were sampled at slopes of 11-40% as were sampled in any other slope class.

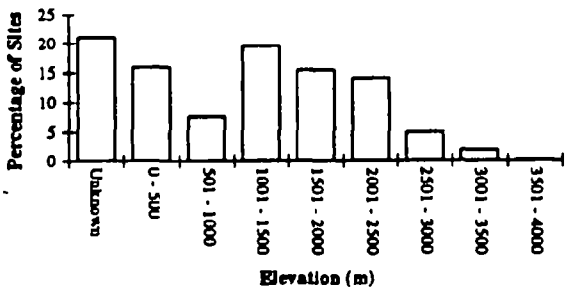

Figure 3. Percentage of sites in the database (623 sites total) by elevational classes.

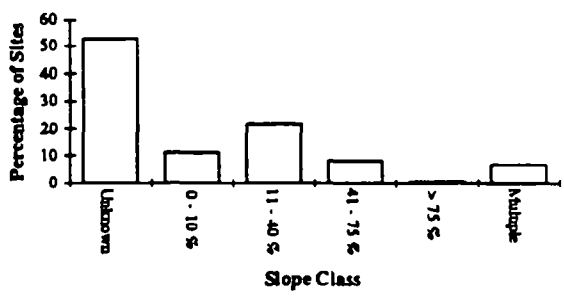

Figure 4. Percentage of sites in the database by slope class (623 sites total).

e) *Distribution by aspect.* The aspects reported in most studies were assumed to be microsite features of the study areas so a comparison of this information with total land area in various aspect classes is probably not meaningful. At the microsite scale reported in the database, 31% of the sites were sampled on south aspects (SE to SW) and 21% were sampled on north aspects (NE to NW).

3) Fire history.

a) *Fire frequency.* Fire frequency can be computed at a single point, based on information from one or several trees, or it may be computed over an area, based on information from many trees (see table A5 for explanation of methods for computing fire frequency; Agee 1993). The frequency obtained is obviously highly dependent on the size of the area included in the computation and therefore fire frequency must be stratified by method of computation for inter-site comparisons to be meaningful. In the database, fire frequency was input to the database as it was reported in each study. Most fire frequencies were computed as a composite fire interval (55% of sites). Fire frequency was computed as a mean fire return interval at 5% of the sites, as a natural fire rotation at 10% of the sites and as a point frequency at 24% of the sites. Frequency was computed using landscape-scale age structure models such as van Wagner (also known as negative exponential) or Weibull distributions at less than 1% of the sites. Stratifying the sites in the database by method of frequency computation would leave too few sites in each method-category, therefore, inter-site comparisons of fire history are made here on the basis of fire regime and fire severity classes.

b) *Fire regime and severity classes.* Fire severity is the effect of fire on trees (Agee 1993). For the database, we qualitatively defined high severity fire regimes as those for which most fires kill a majority of the trees and low severity fire regimes as those for which most fires do not kill a majority of the trees. Almost half of the sites have moderate severity fire regimes (last row table 1). 77% of the sites are in Heinselman's regimes 2 and 3 (last column table 1, see table A4 for a description of the Heinselman classes). The Heinselman classification incorporates both frequency and severity - in general, severity increases with increasing Heinselman class number. It is therefore not surprising that severity and Heinselman class are correlated in the database (table 1).

LIMITATIONS OF THE DATABASE

Although the symbols on the maps in appendices F and G give an impression of uniformity, there is tremendous variation in the amount and kind of information represented by each symbol. Under the limited scope of this project, we did not re-analyze the fire history reconstructions to make the symbols represent uniform data; therefore, detailed inter-site comparisons of this database are not always meaningful. Before drawing conclusions about regional patterns, the user should carefully review the information in the database, especially the number of trees and fires which were used to reconstruct each fire regime.

Table 1. Number of sites by fire regime and severity class (605 sites total).

Heinselman classes*	Severity LOW	MODERATE	HIGH	Percent
0				
1	39	48		14%
2	158	67		37%
3	2	173	66	40%
4		3	28	5%
5		6	11	3%
6			4	1%
percent	33%	49%	18%	

* See table A4 for a description of Heinselman's classes.

The various methodologies used (e.g. point versus area frequencies [Agee 1993]) make intersite comparisons difficult unless similar techniques and presentation styles were used. Furthermore, many of the studies have coarse dating resolution, as dendrochronological crossdating was not used. The presence of crossdating is noted in the file FHREGIME.DB (field number 9). Where fire return intervals exceed roughly 25 years, this may not seriously affect intrasite fire frequency estimates, but it clearly precludes comparisons between sites. Signatures of climatic control at landscape to regional scales will not be possible without accurate crossdating.

RECOMMENDATIONS FOR FUTURE REPORTING OF FIRE HISTORIES

In assembling this database, we found that many studies did not report what we considered to be critical information for interpreting the results. We recommend that future studies report all the items we have included in this database. Items that are commonly omitted include:

a) size of study area and size of plots w/in the study area
b) number of trees used to reconstruct each fire
c) number of fires reconstructed
d) clear site and location information
e) actual fire dates and/or untransformed fire intervals
f) intra-annular placement of scars
g) clear reference to the source of any plant association classifications

UPDATES AND ONLINE AVAILABILITY

The database is available through the Oregon State University Forest Science Data Bank (FSDB. For users with access to the World Wide Web, the address is

http://www.fsl.orst.edu

Users without access can contact the FSDB at the following address.

FSDB
Forestry Sciences Laboratory
3200 SW Jefferson Way
Corvallis, OR 97331
ATTN: Gody Spycher or Don Henshaw

Regular updates to the database are not currently planned, however occasional updates may be made.

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REFERENCES CITED

Agee, J.K. 1990. The historical role of fire in Pacific Northwest Forests. In: Natural and prescribed fire in Pacific Northwest forests. J.D. Walstad; S.R. Radosevich; D V. Sandberg, eds Corvallis, Oregon: Oregon State University Press. pp 25-38.

Agee, J.K. 1993. Fire Ecology of Pacific Northwest Forests. Washington, D.C.: Island Press. 493 pp.

Arno, S.F.; Petersen, T.D. 1983. Variation in estimates of fire intervals: a closer look at fire history on the Bitterroot National Forest. Research Paper INT-301. Ogden, UT: US Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station. 8 pp.

Baisan, C.H.; Swetnam, T.W. 1990. Fire history on a desert mountain range: Rincon Mountain Wilderness, Arizona, U.S.A. Canadian Journal of Forest Research. 20:1559-1569.

Barrett, S.W. 1988. Fire regimes classification for the coniferous forests of the northwestern United States. Final report to Intermountain Research Station. Missoula, Montana. (cooperative agreement INT-87219).

Barrett, S.W.; Arno, S.F. 1988. Increment-borer methods for determining fire history in coniferous forests. General Technical Report INT-244. Ogden, Utah: U.S. Department of Agriculture, Forest Service, Intermountain Research Station. 15 p.

Bibliography of Wildland Fire. 1992. Available from : International Association of Wildland Fire, Fairfield, WA 99012.

Bolin, B.; Döös, B.R.; Jäger, J.; Warrick, R.A. 1986. The Greenhouse Effect, Climatic Change, and Ecosystems, SCOPE 29. New York: John Wiley & Sons. 541 p.

Clark, J.S. 1990. Twentieth-century climate change, fire suppression, and forest production and decomposition in northwestern Minnesota. Canadian Journal of Forest Research. 20:219-232.

Emanuel, W.R.; Shugart, H.H.; Stevenson, M.L. 1985. Climate change and the broad-scale distribution of terrestrial ecosystem complexes. Climatic Change. 7:29-43

Flannigan, M.D.; Van Wagner, C.E. 1991. Climate change and wildfire in Canada. Canadian Journal of Forest Research. 21:66-72.

Heinselman, M.L. 1973. Fire in the virgin forests of the Boundary Waters Canoe Area, Minnesota Quaternary Research. 3:329-382.

Houghton, J.T.; Jenkins, G.J.; Ephraums, J.J., editors. 1990. Climate change. The IPCC scientific assessment. Cambridge University Press. 365 pp.

Houghton, J.T., Callander, B.A.; Varney, S.K., editors. 1992. Climate change 1992. The supplementary report to the IPCC scientific assessment. Cambridge University Press.

International Association of Wildland Fire. 1993. P.O. Box 328, Fairfield, WA 99012.

International Tree-Ring Data Bank (ITRDB). 1992. Available from: National Geophysical Data Center, NOAA, 325 Broadway, E/GC, Boulder, CO 80303.

Johnson, E.A.; Van Wagner, C.E. 1985. The theory and use of two fire history models Canadian Journal of Forest Research. 15:214-220.

Küchler, A.W. 1964. Potential natural vegetation of the conterminous United States. American Geographical Society Special Publication 36.

Leverenz, J.W.; Lev, D.J. 1987. Effects of carbon dioxide-induced climate changes on the natural ranges of six major commercial tree species in the western United States. In: Shands, W.E.; Hoffman, J.S. eds. The Greenhouse Effect, Climate Change and U.S. Forests. Washington, DC: The Conservation Foundation. pp. 123-155.

Overpeck, J T.; Rind, D.; Goldberg, R 1990. Climate-induced changes in forest disturbance and vegetation. Nature. 343:51-53.

Pyne, S.J. 1982. Fire in America: A cultural history of wildland and rural fire. Princeton, NJ. Princeton University Press. 654 pp.

Sheppard, P.R.; Means, J.E.; Lassoie, J.P. 1988. Cross-dating cores as a nondestructive method for dating living, scarred trees. Forest Science. 34:781-789.

Smith, T.M.; Shugart, H.H, Bonan, G.B.; Smith, J.B. 1992. Modeling the potential response of vegetation to global climate change. Advanced Ecological Research. 22: 93-116.

Stokes, M.A.; Smiley, T.L. 1968. An introduction to tree-ring dating. Chicago: University of Chicago Press 73 p.

Swetnam, T.W.; Dieterich, J.H. 1985. Fire history of ponderosa pine forests in the Gila Wilderness, New Mexico. In. General Technical Report INT-182. Ogden, Utah US Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station. pp. 390-397.

APPENDIX A: DESCRIPTIONS OF DATABASE FILES

This appendix contains detailed descriptions of the Fire History Database computer files. This relational database is contained in four Paradox files (release 3.0; Borland International Inc.) Table A1 provides the structure of these four files - descriptions of each field are given in the sections which follow. The site, reference and fire files are related by the "Reference/site number" field. Except for the reference file (FHREF.DB), the database entries are made with capital letters to facilitate searching. The symbol "-1" indicates no data in both the numeric and alphanumeric fields.

FHREF.DB - citation to sources

Whenever possible, data was extracted from a full report, dissertation or thesis because they usually contain more information than the versions published in journals.

1) Reference number - a unique number is assigned to each of the references. If there are two versions of a reference (e.g. a thesis and a journal article), both versions are cited in the database with the same reference number.
2) Authors - the authors names as given in the reference
3) Title
4) Citation
5) Year of publication
6) Objectives - of the study, in the author's words, if possible

FHSITE.DB -site information (-1 indicates no data)

1) Reference/site number - a combination of the reference and site numbers; e g the second site from the fortieth reference has a reference/site number of 4002.

2) State - the two letter postal code

3) Albers-E - Site location based on the Albers equal-area conic projection. This information is provided for those users who cannot easily map latitude and longitude since site locations in the Albers projection can be mapped on simple scatter plots.

4) Albers-N

5) Longitude - of the site location in degrees and fractions of a degree.

6) Latitude - of the site location in degrees and fractions of a degree.

7) Aspect - nominal designation (e.g. N, NNW) includes F for flat sites (< 10% slope) and M for sites with multiple aspect classes; maximum of three characters in this field.

Table A1. Structure of the Fire History Database Paradox files, giving the exact field names. N indicates a numeric field, A indicates an alphanumeric field followed by the number of characters.

Citation to sources, in file FHREF.DB

1	Reference number	N
2	Authors	A100
3	Title	A170
4	Citation	A200
5	Year of publication	N
6	Objectives	A200

Site information, in file FHSITE.DB

1	Reference/site number	N
2	State	A2
3	Albers-E	N
4	Albers-N	N
5	Latitude	N
6	Longitude	N
7	Aspect	A3
8	Slope class	N
9	Elevation - low	N
10	Elevation - high	N
11	Year - start	N
12	Year - end	N
13	Total area reconstructed	N
14	Plant association	A19
15	Community dominant	A14
16	Kuchler classification	N
17	Site name	A32

Individual fire information, in file FHFIRE.DB

1	Reference/site number	N
2	Year of fire	N
3	Start year	N
4	End year	N
5	Extent (ha)	N
6	Number of trees	N

Fire regime information, in file FHREGIME.DB

1	Reference/site number	N
2	Regime years - start	N
3	Regime years - end	N
4	Regime - severity	A8
5	Regime - characteristics	N
6	Fire frequency	N
7	Frequency computation	A12
8	Fire evidence	A12
9	Crossdated?	A3
10	Number of trees	N
11	Number of fires	N

FHSITE.DB -site information (cont.)

8) Slope class:

1	<10%
2	10-39%
3	40-75%
4	>75%
5	sites with multiple slope classes

9) Elevation - low - the lower end of the range of elevation covered by the site, in meters.

10) Elevation - high - the upper end of the range of elevation covered by the site, in meters.

11) Years - start - the starting year of the range of years for which fire history was reconstructed at the site. This is not always the same as the start year in the regime file because the regime may be reported for different time periods at the same site.

12) Years - end - the ending year of the range of years for which fire history was reconstructed at the site. This is not always the same as the ending year in the regime file because the regime may be reported for different time periods at the same site. Also, whenever possible, regimes are reported before 1900. For example, if fire history at a site was reconstructed for the period 1400 to 1985, the range of years in the site file will be 1400-1985 but the range of years in the regime file will be 1400-1900.

13) Total area reconstructed - total area of the site in hectares.

14) Plant association - as provided in each study, generally entered as the four letter species code (first two letters of genus plus first two letters of species). See table A2 for a complete list of codes used in the database.

15) Community dominant - as provided in each study; generally entered as a four letter species code (first two letters of genus plus first two letters of species). See table A2 for a complete list of codes used in the database.

16) Kuchler classification - Vegetation was classified into Küchler's (1964) potential natural vegetation types. Table A3 contains a complete list of the numeric codes used in the database.

17) Site name - either the name of the site as indicated by the author of the report; "entire area" if there is only one site or some other logical identifier

FHSITE.DB -site information (cont.)

Table A2 Abbreviations used in plant association and community dominant fields

Abbr	Common name	Scientific name
ABAM	Pacific silver fir	*Abies amabilis*
ABCO	white fir	*Abies concolor*
ABGR	grand fir	*Abies grandis*
ABLA	subalpine fir	*Abies lasiocarpa*
ABMA	Shasta red fir	*Abies magnifica var shastensis*
ACCI	vine maple	*Acer circinatum*
ACGR	big-toothed maple	*Acer grandidentatum*
ACMA	bigleaf maple	*Acer macrophyllum*
ACSA	sugar maple	*Acer saccharum*
ADFA	chamise	*Adenostoma fasciculatum*
AGIN	beardless bluebunch wheatgrass	*Agropyron inerme*
AGSP	bluebunch wheatgrass	*Agropyron spicatum*
ARGL	eastwood manzanita	*Arctostaphylos glandulosa*
ARTR	big sagebrush	*Artemisia tridentata*
BEAQ	tall Oregongrape	*Berberis aquifolium*
BENE	Oregongrape	*Berberis nervosa*
CADE	incense cedar	*Calocedrus decurrens*
CAGE	elk sedge	*Carex geyeri*
CARU	pinegrass	*Calamagrostis rubescens*
CEIN	coast whitethorn	*Ceanothus incanus*
CEVE	snowbrush ceanothus	*Ceanothus velutinus*
CHUM	western prince's pine	*Chimaphila umbellata*
CLUN	queencup beadlily	*Clintonia uniflora*
COOC	western goldthread	*Coptis occidentalis*
CUAR	Arizona cypress	*Cupressus arizonica*
FAGR	beech	*Fagus grandifolia*
FEID	Idaho fescue	*Festuca idahoensis*
* GRAS	unidentified grass species	
HODI	creambush oceanspray	*Holodiscus discolor*
JUOC	western juniper	*Juniperus occidentalis*
LAOC	western larch	*Larix occidentalis*
LIBO	twinflower	*Linnaea borealis*
LUHI	smooth wood-rush	*Luzula hitchcockii*
MUEM	bullgrass	*Muhlenbergia emersleyi*
* MULT	more than one species	
* PASP	unidentified boxwood species	
PAMY	Oregon boxwood	*Pachistima myrsinites*
PHMA	mallow ninebark	*Physocarpus malvaceus*
PIAL	whitebark pine	*Pinus albicaulis*
PIBA	jack pine	*Pinus banksiana*
* PIBL	foxtail pine	*Pinus balfouriana*
PICE	Mexican pinyon	*Pinus cembroides*
PICO	lodgepole pine	*Pinus contorta*
* PICU	coulter pine	*Pinus coulteri*

(cont)

Table A2. Abbreviations used in plant association and community dominant fields (cont.)

Abbr.	Common name	Scientific name
PIEN	Engelmann spruce	*Picea engelmannii*
PIFL	limber pine	*Pinus flexilis*
PIJE	Jeffrey pine	*Pinus jeffreyi*
PILA	sugar pine	*Pinus lambertiana*
PIMO	western white pine	*Pinus monticola*
PIMU	bishop pine	*Pinus muricata*
PIPO	ponderosa pine	*Pinus ponderosa*
PIPU	blue spruce	*Picea pungens*
PIRE	eastern red pine	*Pinus resinosa*
POIN	Chisos bluegrass	*Poa involuta*
POTR	quaking aspen	*Populus tremuloides*
PSME	Douglas-fir	*Pseudotsuga menziesii*
PUTR	bitterbrush	*Purshia tridentata*
QUCH	canyon live oak	*Quercus chrysolepis*
QUDO	blue oak	*Quercus douglasii*
QUGA	Oregon white oak	*Quercus garryana*
* QUGM	Gambel oak	*Quercus gambelii*
QUMA	bur oak	*Quercus macrocarpa*
SECA	groundsel	*Senecio cardamine*
SEGI	giant sequoia	*Sequoiadendron giganteum*
SESE	coast redwood	*Sequoia sempervirens*
SPBE	birchleaf spiraea	*Spiraea betulifolia*
THPL	western redcedar	*Thuja plicata*
TIAM	basswood	*Tilia americana*
TSCA	eastern hemlock	*Tsuga canadensis*
TSHE	western hemlock	*Tsuga heterophylla*
TSME	mountain hemlock	*Tsuga mertensiana*
VAGL	mountain huckleberry	*Vaccinium globulare*
VAME	big huckleberry	*Vaccinium membranaceum*
VASC	grouse huckleberry	*Vaccinium scoparium*
WHMO	whipple vine	*Whipplea modesta*
XETE	common beargrass	*Xerophyllum tenax*

* abbreviation in this database differs from common practice of using first two letters of genera plus first two letters of species

FHSITE.DB -site information (cont.)

Table A3. Potential natural vegetation types used in the Fire History Database (from Küchler, 1964).

Number	Potential Natural Vegetation	Number	Potential Natural Vegetation
1	Spruce-Cedar-Hemlock Forest	25	Alder-Ash Forest
2	Cedar-Hemlock-Douglas Fir Forest	26	Oregon Oakwoods
3	Silver Fir-Douglas Fir Forest	28	Mosaic of #2 and #26
4	Fir-Hemlock Forest	29	California Mixed Evergreen Forest
5	Mixed Conifer Forest	30	California Oakwoods
6	Redwood Forest	31	Oak-Juniper Woodland
7	Red Fir Forest	33	Chaparral
8	Lodgepole Pine-Subalpine Forest	34	Montane chaparral
10	Ponderosa Shrub Forest	38	Great Basin Sagebrush
11	Western Ponderosa Forest	40	Saltbush-Greasewood
12	Douglas Fir Forest	50	Fescue-Wheatgrass
13	Cedar-Hemlock-Pine Forest	51	Wheatgrass-Bluegrass
14	Grand Fir-Douglas Fir Forest	52	Alpine Meadows and Barren
15	Western Spruce-Fir Forest	55	Sagebrush Steppe
16	Eastern Ponderosa Forest	59	Trans-Pecos Shrub Savanna
18	Pine/Douglas Fir Forest	81	Oak Savanna
19	Arizona Pine Forest	86	Juniper-Oak Savanna
20	Spruce-Fir-Douglas Fir Forest	95	Great Lakes Pine Forest
23	Juniper-Pinyon Woodland	99	Maple-Basswood Forest
24	Juniper Steppe Woodland		

FHFIRE.DB - individual fire information (-1 indicates no data)

1) Reference/site number - a combination of the reference and site numbers; e.g. the second site from the fortieth reference has a reference/site number of 4002.

2) Year of fire - if the fire date is given as a range of dates, this is the mid-point of that range.

3) Start year - of a range of dates, if given. This year could be from a range given by the author or one computed from an uncertainty given by the author (e.g. 1745 ± 3 years becomes 1742 to 1748 in the database).

4) End year - of a range of dates, if given. This year could be from a range given by the author or one computed from an uncertainty given by the author (e.g. 1745 ± 3 years becomes 1742 to 1748 in the database).

5) Extent (ha) - of the fire in hectares

6) Number of trees - used to reconstruct the individual fire.

FHREGIME.DB -fire regimes information (-1 indicates no data)

1) Reference/site number - a combination of the reference and site numbers; e.g. the second site from the fortieth reference has a reference/site number of 4002.

2) Regime years - start - the starting year for the period during which the fire regime is calculated. This is not always the same as the start year in the site file because the regime may be reported for different time periods at the same site.

3) Regime years - end - the ending year of the range of years for which the regime is reported. This is not always the same as the end year in the site file because the regime may be reported for different time periods at the same site. Also, whenever possible, regimes are reported before 1900. For example, if fire history at a site was reconstructed for the period 1400 to 1985, the range of years in the site file will be 1400-1985 but the range of years in the regime file will be 1400-1900.

4) Regime - severity - Fire severity is the effect of fire on trees (Agee 1993). For the database, we qualitatively defined high severity fire regimes as those for which most fires kill a majority of the trees and low severity fire regimes as those for which most fires do not kill a majority of the trees. (HIGH, MOD, or LOW).

5) Regime - characteristics - classification of the fire regime based on characteristics of its frequency and severity, after Heinselman (1973; table A4).

Table A4. Classification of fire regime based on frequency and severity characteristics (Heinselman 1973)

Fire regime number	Description of the regime
0	No natural fire (or very little)
1	Infrequent light surface fires (more than 25 year intervals)
2	Frequent light surface fires (1-25 year return intervals)
3	Infrequent, severe surface fires (more than 25 year return intervals)
4	Short return interval crown fires (25-100 year return intervals)
5	Long return interval crown fires + severe surface fires (100-300 yr return intervals)
6	Very long return interval crown fires+severe surface fires (> 300 yr return intervals)

6) Fire frequency - Fire frequency either as computed in the study or as can be easily computed from the data given. If fire frequency was provided as a composite fire interval over an area larger than approximately 40 ha, the fire frequency is not included in the database (Arno and Petersen 1983).

FHREGIME.DB -fire regimes information (cont.)

7) Frequency computation - the method used to compute the fire regime. Fire frequency can be computed at a single point, based on information from one or several trees, or it may be computed over an area, based on information from many trees (table A5; also Agee 1993). The frequency obtained is obviously highly dependent on the size of the area included in the computation and therefore fire frequency must be stratified by method of computation for inter-site comparisons to be meaningful. In the database, fire frequency is reported as it was computed by the author of each study.

Table A5 Methods used to compute fire frequency.

Method of estimation	Abbreviation	Description
natural fire rotation	NFR	Time in years required to burn an area equal to the area of interest (Heinselman 1973).
point interval	P	Average fire return interval in years from one or several adjacent trees and also for averages of MFRIs
composite fire interval	CFI( )	Average fire return interval in years based on all trees from within the area indicated within the parentheses.
mean fire return interval	MFRI	Average of point intervals
van Wagner	VW	Fire frequency calculated from statistical distribution of stand ages assuming uniform flammability by stand age. Also known as negative exponential distribution
Weibull	.W	Fire frequency calculated from statistical distribution of stand ages where flammability can vary with stand age.

8) Fire evidence - used to reconstruct fire - SCAR = fire scars only; ORIGIN = date of establishment of stands of early seral trees only; BOTH = both fire scars and stand origin dates dates

9) Crossdated? - YES or NO. YES applies if ring-widths were dendrochronologically crossdated but not if fire dates were "crossdated" by adjusting fire dates so that fire intervals match between samples.

10) Number of trees - used to determine the fire regime.

11) Number of fires - used to determine the fire regime.

APPENDIX B: CONTENTS OF THE REFERENCE FILE (FHREF.DB)

Number in first column is the reference number.

33 Abrams, Marc D. 1985. Fire history of oak gallery forests in a northeast Kansas tallgrass prairie. American Midland Naturalist. 114:188-191.

4 Agee, James K. 1990. Fire history along an elevational gradient in the Siskiyou Mountains, Oregon. Northwest Science. 65:188-199. (also reported in: Agee, James K.; Laura Potash; Michael Gracz. 1990. Oregon Caves forest and fire history National Park Service Report CPSU/UW 90-1. Cooperative Park Studies Unit. College of Forest Resources, University of Washington 78 pp.

5 Agee, James K.; Mark Finney; Roland de Gouvenain. 1990. Forest fire history of Desolation Peak, Washington. Candian Journal of Forest Research. 20:350-356. (also reported in: Agee, James K., Mark Finney; Roland de Gouvenain. 1986 The fire history of Desolation Peak - a portion of the Ross Lake National Recreation Area. Final report to National Park Service, cooperative agreement CA-9000-3-0004, subagreement 5. 76 pp.)

1 Agee, James K.; Peter W. Dunwiddie. 1984. Recent forest development on Yellow Island, San Juan County, WA. Canadian Journal of Botany. 62:2074-2080

34 Ahlstrand, Gary M. 1980. Fire history of a mixed conifer forest in Guadalupe Mountains National Park. In: Stokes, M.A. and J.H. Dieterich (technical coordinators). Proceedings of the Fire History Workshop. October 20-24, 1980, Tucson, AZ USDA Forest Service, General Technical Report RM-81. Ft. Collins, CO. Rocky Mountain Forest and Range Experiment Station. pp. 4-7.

38 Arno, Stephen F. 1976 The historical role of fire on the Bitterroot National Forest. USDA Forest Service, Research Paper INT-187. Ogden, UT: Intermountain Forest and Range Experiment Station. 29 pp. (also reported in: Arno, Stephen F.; Terry D. Petersen. 1983. Variation in estimates of fire intervals: a closer look at fire history on the Bitterroot National Forest. USDA Forest Service, Research Paper INT-301. Ogden, UT: Intermountain Forest and Range Experiment Station. 8 pp.)

81 Arno, Stephen F. 1981. Fire history in the vicinity of Sheep Mountain Bog, Lolo National Forest. Unpublished report: on file at USDA Forest Service, Intermountain Experiment Station, Intermountain Fire Science Laboratory, Missoula, MT. 4 pp.

35 Arno, Stephen F. 1985. Fire history in the vicinity of Mary's Frog Pond, Lolo National Forest. Unpublished report on file at USDA Forest Service Intermountain Experiment Station, Intermountain Fire Science Laboratory, Missoula, MT. 2 pp.

36 Arno, Stephen F.; Dan H. Davis. 1980. Fire history of western redcedar/hemlock forests in northern Idaho. In: Stokes, M.A. and J.H. Dieterich (technical coordinators). Proceedings of the Fire History Workshop. October 20-24, 1980, Tucson, AZ. USDA Forest Service, General Technical Report RM-81. Ft. Collins, CO: Rocky Mountain Forest and Range Experiment Station. pp. 21-26.

37 Arno, Stephen F.; George E. Gruell. 1983. Fire history at the forest-grassland ecotone in

southwestern Montana Journal of Range Management. 36:332-336.

39 Baisan, Christopher H.; Thomas W Swetnam 1990. Fire history on a desert mountain range Ricon Mountain Wilderness, Arizona, U.S A. Canadian Journal of Forest Research. 20.1559-1569.

40 Baker, Frederick S. 1925. Aspen in the central Rocky Mountain region. USDA, Department Bulletin 1291. 46 pp.

42 Barrett, Stephen W. 1980 Indian Fires in the pre-settlement forests of western Montana In. Stokes, M.A. and J.H. Dieterich (technical coordinators). Proceedings of the Fire History Workshop. October 20-24, 1980, Tucson, AZ. USDA Forest Service, General Technical Report RM-81. Ft. Collins, CO: Rocky Mountain Forest and Range Experiment Station. pp. 35-41.

65 Barrett, Stephen W. 1982. Fire's influence on ecosystems of the Clearwater National Forest: Cook Mountain fire history inventory. USDA Forest Service Clearwater National Forest, Orofino, ID. 42 pp

76 Barrett, Stephen W. 1987. Fire history of the Rapid River drainage, New Meadows Ranger District, Payette National Forest. Final Report, Contract No. 43-02WW-6-573 for USDA Forest Service, Payette National Forest, New Meadows Ranger District, New Meadows, ID. 9 pp.

41 Barrett, Stephen W. 1988 Fire supression's effects on forest succession within a central Idaho wilderness Western Journal of Applied Forestry 3:76-80.

43 Barrett, Stephen W.; Stephen F. Arno, Carl H. Key. 1991. Fire regimes of western larch - lodgepole pine forests in Glacier National Park, Montana. Canadian Journal of Forest Research 21·1711-1720.

14 Bork, Joyce L. 1984 Fire history in three vegetation types on the eastern side of the Oregon Cascades. Ph.D. disseration. Corvallis, OR· Oregon State University. 94 pp. (also reported in: Mazany, Terry; Marna Ares Thompson. 1983. Fire scar dates from the Pringle Falls area of central Oregon. Report prepared for the Silviculture Laboratory, Bend, OR by Modern Studies Section, Laboratory of Tree-Ring Research, University of Arizona, Tucson, AZ. 15 pp)

23 Bork, Joyce. 1984. Fire history in the Elkhorn Mountains. Unpublished manuscript.

44 Brown, Peter Mark. 1991. Dendrochronology and fire history in a stand of northern California coast redwood. M.S. thesis. Tucson, AZ: University of Arizona. 84 pp. (also reported in: Brown, Peter M.; Thomas W. Swetnam. 1994. A cross-dated fire history from coast redwood near Redwood National Park, California. Canadian Journal of Forest Research. 24:21-31.)

45 Burkhardt, J. Wayne; E.W. Tisdale. 1976. Causes of juniper invasion in southwestern Idaho. Ecology. 57:472-484.

20 Chappell, Christopher B. 1991. Fire ecology and seedling establishment in Shasta red fir (*Abies magnifica* var *shastensis*) forests of Crater Lake National Park, Oregon. M.S. thesis. Seattle, WA. University of Washington. 133 pp.

46 Clagg, Harry B ; David R. Stevens. 1976. Fire management in Rocky Mountain National Park Part II. current fire research. Tall Timbers Fire Ecology Conference. 14.77-86.

47 Cornelius, Colin Jay. 1969. An investigation of the current ecological situation of the *Sequoia sempervirens* community in Muir Woods National Monument. M.A. thesis. Sonoma, CA. Sonoma State College. 149 pp.

48 Davis, Kathleen M. 1980. Fire history of a western larch/Douglas-fir forest type in northwestern Montana In: Stokes, M.A. and J.H. Dieterich (technical coordinators). Proceedings of the Fire History Workshop. October 20-24, 1980, Tucson, AZ. USDA Forest Service, General Technical Report RM-81. Ft. Collins, CO: Rocky Mountain Forest and Range Experiment Station pp. 69-74.

2 Dickman, Alan Wayne. 1984 Fire and *Phellinus weirii* in a mountain hemlock (*Tsuga mertensiana*) forest: postfire succession and the persistence, distribution, and spread of a root-rotting fungus. Ph.D. dissertation. Seattle, WA· University of Washington. 85 pp. (also reported in: Dickman, Alan; Stanton Cook. 1989. Fire and fungus in a mountain hemlock forest Canadian Journal of Botany. 67:2005-2016.)

51 Dieterich, J H. 1990. The composite fire interval - a tool for more accurate interpretation of fire history. In· Stokes, M.A. and J.H. Dieterich (technical coordinators). Proceedings of the Fire History Workshop. October 20-24, 1980, Tucson, AZ USDA Forest Service, General Technical Report RM-81. Ft. Collins, CO. Rocky Mountain Forest and Range Experiment Station pp 8-14.

52 Dieterich, J.H.; A.R. Hibbert. 1990. Fire history in a small ponderosa pine stand surrounded by chaparral. In· Krammes, J.S (technical coordinators). Effects of fire management of southwestern natural resources - proceedings of a symposium. November 15-17, 1988, Tucson, AZ USDA Forest Service, General Technical Report RM-191. Ft. Collins, CO pp. 168-173.

49 Dieterich, John H. 1980. Chimney Spring forest fire history. USDA Forest Service, Research Paper RM-220. Fort Collins, CO: Rocky Mountain Forest and Range Experiment Station. 8 pp.

50 Dieterich, John H. 1983. Fire history of southwestern mixed conifer: a case study. Forest Ecology and Management. 6:13-31.

53 Dieterich, John H.; Thomas W. Swetnam. 1984. Dendrochronology of a fire-scarred ponderosa pine. Forest Science. 30:238-247.

54 Dodge, John Marvin. 1975. Vegetation changes associated with land use and fire history in San Diego County. Ph.D. dissertation. Riverside, CA: University of California. 216 pp.

24 Finch, R.B. 1984. Fire history of selected sites on the Okanogan National Forest. USDA Forest Service, Okanogan National Forest. Okanogan, WA. Unpublished manuscript.

55 Finney, Mark A.; Robert E. Martin. 1989. Fire history in a *Sequoia sempervirens* forest at Salt Point State Park, California. Canadian Journal of Forest Research. 19:1451-1457.

56 Finney, Mark A.; Robert E. Martin. 1992. Short fire intervals recorded by redwoods at Annadel

State Park, California. Madroño. 39.251-262.

57 Foxx, Teralene S ; Loren D Potter. 1984. Fire ecology at Bandelier National Monument. In Foxx, T S (editor). La Mesa Fire Symposium. Los Alamos, October 6-7, 1981 Los Alamos National Lab. Informal Report LA-9236-NERP. pp. 11-37. (also reported in· Foxx, T S.; L.D. Potter 1980. Fire ecology at Bandelier National Monument. Proceedings of the Second Conference on Scientific Research in National Parks November 26-30, 1979, San Francisco, CA Volume 10. Washington, DC. American Institute of Biological Science and USDI National Park Service. pp. 396-403)

58 Freedman, June D.; James R Habeck. 1985. Fire, logging, and white-tailed deer interrelationships in the Swan Valley, northwestern Montana. In: Lotan, J.E. and J.K. Brown (compilers) Symposium on fire's effects on wildlife habitat. Missoula, MT, March 21, 1984. USDA Forest Service, General Technical Report INT-186. Ogden, UT: Intermountain Research Station. pp 23-35.

59 Frissell, Sidney S. Jr. 1973. The importance of fire as a natural ecological factor in Itasca State Park, Minnesota. Quaternary Research. 3.397-407.

60 Fritz, Emanuel. 1932. The role of fire in the Redwood region. Circular 323 Berkeley, CA: University of California, College of Agriculture, Agricultural Experiment Station. 23 pp (also reported in. Fritz, E. 1931 The role of fire in the Redwood region. Journal of Forestry 29·939-950 and in Fritz, Emanuel. 1929. Some popular fallacies concerning California redwood. Madroño 1:221-224.)

61 Gabriel, Herman W. III. 1976. Wilderness ecology· The Danaher Creek drainage, Bob Marshall Wilderness, Montana. Ph.D. dissertation Missoula, MT· University of Montana. 224 pp

62 Gardner, W.J. 1905. Results of a Rocky Mountain forest fire studied fifty years after its occurrence. Society of American Foresters Proceedings. 1:102-109.

11 Geiszler, Daniel Reuben. 1981. Interactions of fire, fungi and mountain pine beetles in a lodgepole pine stand in south-central Oregon. Ph.D. dissertation Seattle, WA. University of Washington. 101 pp. (also reported in: Gara, R.I.; W.R. Littke; J.K. Agee; D.R. Geiszler; J.D. Stuart; C.H. Driver. 1985. Influence of fires, fungi and mountain pine beetles on development of a lodgepole pine forest in south-central Oregon. In: Lodgepole Pine, the species and its management. Symposium proceedings, 5/8-10/84 Spokane, WA and 5/14-16/84 Vancouver, B.C. D.M. Baumgartner, editor. Pullman, WA:Coop. Ext, Washington State Univ. pp. 153-162.

63 Goldblum, David; Thomas T. Veblen. 1992. Fire history of a ponderosa pine/Douglas-fir forest in the Colorado Front Range. Physical Geography. 13:133-148.

22 Gray, Andrew. 1990. Forest structure on the Siouxon burn, southern Washington Cascades. comparison of single and multiple burns. M.S. thesis. Seattle, WA: University of Washington. 85 pp.

64 Greenlee, Jason M. 1983. Vegetation, fire history, and fire potential of Big Basin Redwoods State Park, California. Ph.D. dissertation. Santa Cruz, California: University of California. 167 pp.

66 Gruell, G E.; L.L. Loope. 1974. Relationships among aspen, fire, and ungulate browsing in Jackson Hole, Wyoming. USDI National Park Service, Rocky Mountain Regoin, Lakewood, Colorado in cooperation with USDA Forest Service, Intermountain Region. 33 pp.

67 Gruell, George E.; Wyman C. Schmidt, Stephen F. Arno; William J. Reich. 1982. Seventy years of vegetative change in a managed ponderosa pine forest in western Montana - implications for resource management. USDA Forest Service, General Technical Report INT-130. Ogden, UT. Intermountain Forest and Range Experiment Station. 42 pp

3 Hall, Frederick C. 1976. Fire and vegetation in the Blue Mountains - implications for land managers. Tall Timbers Fire Ecology Conference. 15:155-170. (also reported in: Hall, Frederick C 1982. Fire history - Blue Mountains, Oregon. Presented at Fire History Workshop, University of Arizona, Tucson, Arizona, October 20-24, 1980 USDA Forest Service, General Technical Report RM-81 pp. 75-81)

68 Heinselman, Miron L. 1973. Fire in the virgin forests of the Boundary Waters Canoe Area, Minnesota. Quaternary Research. 3:329-382.

17 Hemstrom, Miles Arthur. 1979 A recent disturbance history of forest ecosystems at Mount Rainier National Park. Ph.D. dissertation. Corvallis, OR: Oregon State University. 67 pp. (also reported in. Hemstrom, Miles A.; Jerry F. Franklin 1982 Fire and other disturbances of the forests in Mount Rainier National Park. Quaternary Research. 18:32-51.)

69 Houston, Douglas B. 1973 Wildfires in northern Yellowstone National Park. Ecology 54.1111-1117.

70 Jacobs, Diana F., Dana W. Cole; Joe R. McBride. 1985. Fire history and perpetuation of natural coast redwood ecosystems Journal of Forestry 83:494-497.

29 Keen, F.P. 1937. Climatic cycles in eastern Oregon as indicated by tree rings. Monthly Weather Review. 65:175-188.

71 Keifer, MaryBeth. 1991. Age structure and fire disturbance in the southern Sierra Nevada subalpine forest. M.S. thesis. Tucson, AZ: University of Arizona. 111 pp.

15 Kertis, Jane. 1986. Vegetation dynamics and disturbance history of Oak Patch Natural Area Preserve, Mason County, Washington. M.S. thesis. Seattle, WA: University of Washington. 95 pp.

72 Kilgore, Bruce M.; Dan Taylor. 1979. Fire history of a sequoia-mixed conifer forest. Ecology. 60:129-142. (also reported in: Kilgore, Bruce M. 1973. The ecological role of fire in Sierran conifer forests. Quaternary Research. 3:496-513 and in: Kilgore, Bruce M. 1976. The role of fire in a giant sequoia-mixed conifer forest. In: Research in the Parks - Transactions of the National Park Centennial Symposium. December 28-29, 1971, Philladelphia, PA. USDI National Park Service. Washington, DC. Symposium Series No. 1. 1:93-116.)

73 Kittredge, Joseph Jr. 1934. Evidence of the rate of forest succession on Star Island, Minnesota. Ecology. 15:24-35.

21 Larson, James Wesley. 1972. Ecological role of lodgepole pine in the upper Skagit River Valley, Washington M.S. thesis. Seattle, WA. University of Washington. 77 pp.

74 Laven, R D.; P.N. Omi; J.G. Wyant; A.S. Pinkerton. 1980. Interpretation of fire scar data from a ponderosa pine ecosystem in the central Rocky Mountains, Colorado. In: Stokes, M A. and J H Dieterich (technical coordinators). Proceedings of the Fire History Workshop. October 20-24, 1980, Tucson, AZ USDA Forest Service, General Technical Report RM-81. Ft Collins, CO Rocky Mountain Forest and Range Experiment Station pp. 46-49.

75 Madany, Michael Henry. 1981. Land use-fire regime interactions with vegetation structure of several montane forest areas of Zion National Park. M S. thesis. Logan, Utah: Utah State University. 222 pp. (also reported in: Madany, Michael H., Neil E. West. 1980. Fire history of two montane forest areas of Zion National Park. In: Stokes, M A and J H. Dieterich (technical coordinators). Proceedings of the Fire History Workshop October 20-24, 1980, Tucson, AZ USDA Forest Service, General Technical Report RM-81. Ft. Collins, CO: Rocky Mountain Forest and Range Experiment Station pp. 50-56 and in: Madany, Michael H ; Neil E West 1983 Livestock grazing-fire regime interactions within montane forests of Zion National Park, Utah Ecology. 64.661-667.)

31 Maruoka, Kathleen Ryoko. 1994 Fire history of *Pseudotsuga menziesii* and *Abies grandis* stands in the Blue Mountains of Oregon and Washington M.S thesis. Seattle, WA: University of Washington. 73 pp.

77 McBride, Joe R.; Diana F. Jacobs. 1980. Land use and fire history in the mountains of southern California. In. Stokes, M.A. and J H. Dieterich (technical coordinators). Proceedings of the Fire History Workshop. October 20-24, 1980, Tucson, AZ. USDA Forest Service, General Technical Report RM-81. Ft. Collins, CO: Rocky Mountain Forest and Range Experiment Station pp 85-88

78 McBride, Joe R.; Richard D. Laven. 1976. Scars as an indicator of fire frequency in the San Bernardino Mountains, California. Journal of Forestry. 74:439-442

79 McClaran, Mitchel P. 1988. Comparison of fire history estimates between open-scarred and intact *Quercus douglasii*. American Midland Naturalist. 120:432-435. (also reported in: McClaran, Mitchel P.; James W. Bartolome. 1989. Fire-related recruitment in stagnant *Quercus douglasii* populations. Canadian Journal of Forest Research. 19:580-585.)

80 McCune, Bruce. 1983. Fire frequency reduced two orders of magnitude in the Bitterroot Canyons, Montana. Canadian Journal of Forest Research. 13:212-218.

6 McNeil, Robert Curlan. 1975. Vegetation and fire history of a ponderosa pine-white fir forest in Crater Lake National Park. M.S. thesis. Corvallis, OR: Oregon State University. 164 pp. (also reported in: McNeil, Robert C.; Donald B. Zobel. 1980. Vegetation and fire history of a ponderosa pine-white fir forest in Crater Lake National Park. Northwest Science. 54:30-46.)

7 Means, Joseph Earl. 1980. Dry coniferous forests in the western Oregon Cascades. Ph.D dissertation. Corvallis, OR: Oregon State University. 268 pp. (also reported in: Means, Joseph E. 1982. Developmental history of dry coniferous forests in the central western Cascade Range of Oregon. In: Means, J.E., editor. Forest succession and stand development research in the

Northwest Proceedings of a symposium; 1981 March 26; Corvallis, OR. Forestry Research Laboratory, Oregon State University. pp. 142-158.

82 Mills, Robert Clayton. 1962. A study of near climax conditions in a spruce-fir ecosystem M S. thesis. Boulder, CO: University of Colorado. 68 pp

83 Moir, William H. 1982. A fire history of the High Chisos, Big Bend National Park, Texas The Southwestern Naturalist. 27:87-98.

84 Morgan, Penny; Stephen C. Bunting 1990. Fire effects in whitebark pine forests. In: Schmidt, W.C.; K.J. McDonald (compilers). Proceedings - Symposium on whitebark pine ecosystems Bozeman, MT, March 29-31, 1989. USDA Forest Service, General Technical Report INT-270 Ogden, UT· Intermountain Research Station. pp. 166-170

12 Morrison, Peter H.; Frederick J. Swanson. 1990. Fire history and pattern in a Cascade Range landscape. General Technical Report PNW-GTR-254 Portland, OR: USDA Forest Service, Pacific Northwest Research Station. 77 pp.

85 Oswald, Edward Theodore 1966. A synecological study of the forested moraines of the valley floor of Grand Teton National Park, Wyoming Ph.D. dissertation. Bozeman, MT: Montana State University. 101 pp

86 Pitcher, Donald C. 1987. Fire history and age structure in red fir forests of Sequoia National Park, California. Canadian Journal of Forest Research. 17:582-587

87 Presnall, C C. 1933. Translating the autobiography of a big tree. Yosemite Nature Notes 12.4-7.

88 Rapraeger, E.F. 1936. Effect of repeated ground fires upon stumpage returns in western white pine. Journal of Forestry. 34.715-718.

89 Rice, Carol L. 1983. A fire history of the Douglas-fir/mixed evergreen forests of the northern California coast Range preserve. The Nature Conservancy, Wildland Resource Management, Walnut Creek, California 45 pp. (also reported in: Rice, Carol L. 1985. Fire history and ecology of the North Coast Range Preserve. In: Lotan, J.E. and others (technical coordinators). Proceedings-symposium and workshop on wilderness fire. Missoula, MT, November 15-18, 1983. USDA Forest Service, General Technical Report INT-182. Ogden, UT: Intermountain Forest and Range Experiment Station. pp. 367-372.)

90 Robinson, James L. 1969. Forest Survey of the Guadalupe Mountains, Texas. M.S. thesis. Albuquerque, NM: University of New Mexico. 71 pp.

91 Romme, William H. 1982. Fire and landscape diversity in subalpine forests of Yellowstone National Park. Ecological Monographs. 52:199-221.

92 Rowdabaugh, Kirk M. 1978. The role of fire in the ponderosa pine-mixed conifer ecosystems. M.S. thesis. Fort Collins, CO: Colorado State University. 121 pp. (also reported in: Barrows, Jack S.; E.W. Morgen; Kirk Rowdabaugh; Richard Yancik. 1977. The role of fire in the ponderosa pine and mixed conifer ecosystems. Final Report. Colorado State University for USDA Forest

Service, Rocky Mountain Forest and Range Experiment Station Fort Collins, CO Cooperative Agreement 16-452-CA.)

93 Savage, Melissa 1989. Structural dynamics of a pine forest in the American Southwest under chronic human disturbance. Ph.D. dissertation. Boulder, CO University of Colorado. 198 pp (also reported in· Savage, Melissa; Thomas W. Swetnam. 1990. Early 19th-century fire decline following sheep pasturing in a Navajo ponderosa pine forest. Ecology. 71:2374-2378.)

94 Schantz-Hansen, T. 1927. A century of forest fires. American Forests and Forest Life. 33:620

95 Sheppard, Paul R ; James P. Lassoie. 1987. Natural fire history of lodgepole pine of Mt. San Jacinto, California. In: Proceedings of the Ninth Conference on Fire and Forest Meteorology, April 21-24, San Diego, CA. Boston, MA: American Meteorological Society pp. 106-107. (also reported in Sheppard, Paul R ; James P. Lassoie. 1986. Fire history of lodgepole pine of Mt San Jacinto, California. In: Jacoby, G.C.; J.W. Hornbeck (compilers). Proceedings or the International Symposium on Ecological Aspects of Tree-Ring Analysis U.S. Dept. Energy, Office of Energy Research; Washington, DC pp. 155-162, and in: Sheppard, Paul R.; James P Lassoie 1983 Fire regime of the lodgepole pine communities of the San Jacinto Mountains, California. In. Lotan, J.E. and others (technical coordinators). Proceedings-symposium and workshop on wilderness fire Missoula, MT, November 15-18, 1983. USDA Forest Service, General Technical Report INT-182. Ogden, UT: Intermountain Forest and Range Experiment Station. p 376.)

28 Sherman, Robert James 1969. Spatial and developmental patterns of the vegetation of Black Butte, Oregon. Ph.D. dissertation Corvallis, OR. Oregon State University. 80 pp

27 Simon, Steven A 1991 Fire history in the Jefferson Wilderness Area east of the Cascade Crest Final report to the Deschutes National Forest Fire Staff. 29 pp

96 Singer, Francis James. 1975. Wildfire and ungulates in the Glacier National Park area, northwestern Montana M.S thesis. Moscow, ID. University of Idaho. 53 pp

97 Skinner, Thomas V.; Richard D Laven. 1983 A fire history of the Longs Peak region of Rocky Mountain National Park. In: Seventh Conference on Fire and Forest Meteorology (preprints). April 25-28, 1983, Ft. Collins, CO. Boston, MA: American Meteorological Socitey. pp. 71-74.

98 Sneck, Kathleen M. Davis. 1977. The fire history of Coram Experimental Forest. M.S. thesis Missoula, MT: University of Montana. 111 pp.

10 Soeriaatmadja, Roehajat Emon. 1966. Fire history of the ponderosa pine forests of the Warm Springs Indian Reservation, Oregon. Ph.D. dissertation. Corvallis, OR: Oregon State University 123 pp.

99 Spurr, Stephen H. 1954. The forests of Itasca in the nineteenth century as related to fire. Ecology 35:21-25.

100 Steele, Robert; Stephen F. Arno; Kathleen Grier-Hayes. 1986. Wildfire patterns change in central Idaho's ponderoas pine-Douglas-fir forest. Western Journal of Applied Forestry. 1:16-18.

101 Stein, Steven J. 1988. Fire history of the Paunsaugunt Plateau in southern Utah Great Basin

Naturalist 48:58-153.

102 Stephenson, Nathan L.; David J. Parsons, Thomas W. Swetnam 1991. Restoring natural fire to the sequoia-mixed conifer forest: should intense fire play a role? Tall Timbers Fire Ecology Conference. 17:321-337.

16 Stewart, Glenn H. 1984. Forest structure and regeneration in the *Tsuga heterophylla - Abies amabilis* transition zone, central Western Cascades, Oregon. Ph.D. dissertation. Corvallis, OR: Oregon State University. 148 pp. (also reported in: Stewart, Glenn H. 1986. Forest development in canopy openings in old-growth *Pseudotsuga* forests of the western Cascade Range, Oregon. Canadian Journal of Forest Research. 16:558-568. and in: Stewart, Glenn H. 1986. Population dynamics of a montane conifer forest, western Cascade Range, Oregon, USA. Ecology. 67.534-544.)

103 Stuart, John D. 1987. Fire history of an old-growth forest of *Sequoia sempervirens* (Taxodiaceae) forest in Humboldt Redwoods State Park, California. Madroño 34:128-141.

18 Stuart, John David. 1983. Stand structure and development of a climax lodgepole pine forest in south-central Oregon. Ph.D. dissertation. Seattle, WA: University of Washington. 212 pp (also reported in. Stuart, John D., Agee, James K.; Robert I. Gara. 1989. Lodgepole pine regeneration in an old, self-perpetuating forest in south central Oregon. Canadian Journal of Forest Research 19:1096-1104.)

104 Swetnam, Thomas W. 1983. Fire history of the Gila Wilderness, New Mexico. M.S. Thesis Tucson, AZ. University of Arizona. 140 pp. (also reported in: Swetnam, Thomas W ; John H Dieterich. 1985. Fire history of ponderosa pine forests in the Gila Wilderness, New Mexico. In Lotan, J E. and others (technical coordinators) Proceedings-symposium and workshop on wilderness fire Missoula, MT, November 15-18, 1983. USDA Forest Service General Technical Report INT-182 Ogden, UT: Intermountain Forest and Range Experiment Station pp 390-397.)

106 Swetnam, Thomas W.; Christopher H. Baisan; Peter M. Brown; Anthony C. Caprio 1988 Fire history of Rhyolite Canyon, Chiracahua National Monument. Technical Report No. 32. Cooperative National Park Resources Studies Unit. Tucson, AZ: University of Arizona. 38 pp.

105 Swetnam, Thomas W.; Ramzi Touchan; Christopher H. Baisan; Anthony C. Caprio; Peter M. Browns [sic]. 1990. Giant Sequoia fire history in Mariposa Grove, Yosemite National Park. Yosemite Centennial Symposium, Concord, California. pp. 249-255.

107 Talley, S.N.; J.R. Griffin. 1980. Fire ecology of a montane pine forest, Junipero Serra Peak, California. Madroño. 27:49-60. (also reported in: Griffin, James R.; Steven N. Talley. 1980. Fire history, Junipero Serra Park, central coastal California. In: Stokes, M.A. and J.H. Dieterich (technical coordinators). Proceedings of the Fire History Workshop. October 20-24, 1980, Tucson, AZ. USDA Forest Service, General Technical Report RM-81. Ft. Collins, CO: Rocky Mountain Forest and Range Experiment Station. pp. 82-84.)

109 Taylor, Alan H. 1993. Fire history and structure of red fir (*Abies magnifica*) forests, Swain Mountain Experimental Forest, Cascade Range, northeastern California. Canadian Journal of Forest Research. 23.1672-1678.

110 Taylor, Alan H ; Charles B. Halpern. 1991. The structure and dynamics of *Abies magnifica* forests in the southern Cascade Range, USA. Journal of Vegetation Science. 2:189-200

108 Taylor, Dale L. 1973. Some ecological implications of forest fire control in Yellowstone National Park, Wyoming Ecology. 54:1394-1396.

30 Taylor, Dan. 1977. Some preliminary observations of the history of natural fires in Skagit District. North Cascades National Park, Skagit District Office Marblemount, WA

13 Teensma, Peter Dominic Adrian. 1987. Fire history and fire regimes of the Central Western Cascades of Oregon. Ph.D. dissertation. Eugene, OR: University of Oregon. 188 pp

9 Thornburgh, Dale Alden. 1969. Dynamics of the true fir-hemlock forests of the west slope of the Washington Cascade Range Ph.D. dissertation Seattle, WA: University of Washington 210 pp

111 Veirs, Stephen D. Jr. 1980. The influence of fire in coast redwood forests. In. Stokes, M A and J.H. Dieterich (technical coordinators). Proceedings of the Fire History Workshop October 20-24, 1980, Tucson, AZ. USDA Forest Service, General Technical Report RM-81. Ft. Collins, CO Rocky Mountain Forest and Range Experiment Station. pp. 93-95.

112 Veirs, Stephen D. Jr. 1982 Coast redwood forest: stand dynamics, successional status, and the role of fire In: Means, J E. (editor). Forest succession and stand development research in the Northwest. Proceedings symposium: March 26, 1981; Corvallis, OR. Forest Research Lab, Oregon State University pp. 119-141.

113 Warner, Thomas E. 1980. Fire history in the yellow pine forest of Kings Canyon National Park In Stokes, M A and J.H. Dieterich (technical coordinators) Proceedings of the Fire History Workshop. October 20-24, 1980, Tucson, AZ USDA Forest Service, General Technical Report RM-81 Ft. Collins, CO Rocky Mountain Forest and Range Experiment Station. pp. 89-92

114 Weaver, Harold. 1951. Fire as an ecological factor in the southwestern ponderosa pine forests. Journal of Forestry. 49:93-98.

26 Weaver, Harold. 1959. Ecological changes in the ponderosa pine forest of the Warm Springs Indian Reservation in Oregon. Journal of Forestry. 57:15-20.

8 Weaver, Harold. 1961. Ecological changes in the ponderosa pine forest of Cedar Valley in southern Washington. Ecology. 42:416-420.

115 Wills, Robin D.; John D. Stuart. 1994. Fire history and stand development of a Douglas-fir/hardwood forest in northern California. Northwest Science. 68:205-209.

25 Wischnofske, Merle G.; David W. Anderson 1983. The natural role of fire in Wenatchee Valley. USDA Forest Service, Pacific Northwest Region, Wenatchee National Forest. Wenatchee, WA. Unpublished manuscript.

32 Woodard, Paul Michael. 1977. Effects of prescribed burning on two different-aged high-elevation plant communities in eastern Washington. Ph.D. dissertation. Seattle, WA: University of Washington 228 pp.

19 Yamaguchi, David Kay. 1986. The development of old-growth Douglas-fir forests northeast of Mount St Helens, WA, following an A D. 1480 eruption Ph.D. dissertation Seattle, WA University of Washington. 100 pp. (also reported in: Yamaguchi, David K. 1993. Forest history, Mount St. Helens National Geographic Research and Exploration. 9:294-325.)

116 Young, James A.; Raymond A. Evans 1981. Demography and fire history of a western juniper stand Journal of Range Management. 34:501-505

APPENDIX C: LISTING OF THE SITE FILE (FHSITE.DB)

(-1 indicates no data)

Ref/ Site #	State	Albers-E	Albers-N	Lat.	Long.	Aspect	Slope	--- Elev --- Low	High	--- Year --- Start	End	Area (ha)	Plant Association	Community dominant	Küchler Class	Site name
101	WA	-1342717	2985331	123 03	48 59	F	1	15	15	1730	1980	5	PSME	PSME	2	ENTIRE AREA
201	OR	-1352558	2440026	121 97	43.73	M	1	1500	2200	1520	1984	18000	TSME	PICO	4	ENTIRE AREA
301	OR	-1059416	2540047	118 50	45 00	-1	-1	-1	-1	1763	1967	-1	ABGR	PIPO	14	SINGLE STUMP
401	OR	-1498617	2279949	123 41	42 10	M	3	1300	1800	1480	1988	197	ABCO	PSME	5	OREGON CAVES
402	OR	-1498617	2279949	123.41	42.10	M	3	1300	1800	1480	1988	197	ABCO	PSME	5	OREGON CAVES
403	OR	-1498617	2279949	123 41	42 10	M	3	1300	1800	1480	1988	197	ABCO	ABCO	5	OREGON CAVES
404	OR	-1498617	2279949	123 41	42 10	M	3	1300	1800	1480	1988	197	ABCO	ABCO	5	OREGON CAVES
405	OR	-1498617	2279949	123.41	42 10	M	3	1300	1800	1480	1988	197	MULT	MULT	5	OREGON CAVES
406	OR	-1476955	2275394	123.14	42 09	N	3	1200	1200	1746	1985	2	PSME/BENE	PSME	5	KINNEY CREEK
501	WA	-1188102	2998022	121 02	48.94	N	3	880	1670	1573	1985	640	MULT	MULT	15	N ASPECT
502	WA	-1187477	2995034	121 00	48.91	E	3	600	1280	1650	1985	800	MULT	MULT	15	E ASPECT
503	WA	-1185110	2992083	120.96	48 89	S	3	490	1220	1650	1985	840	MULT	MULT	15	S ASPECT
504	WA	-1189368	2993026	121 02	48 89	SW	3	490	1220	1650	1985	530	MULT	MULT	15	SW ASPECT
505	WA	-1189513	2996095	121 03	48 92	W	3	490	1520	1650	1985	780	MULT	MULT	15	W ASPECT
506	WA	-1188753	2994924	121 02	48 91	M	3	490	1670	1650	1985	3500	MULT	MULT	15	ENTIRE AREA
507	WA	-1188753	2994924	121.02	48 91	M	3	490	1670	1650	1985	3500	PSME/PIPO	PSME	12	ENTIRE AREA
508	WA	-1188753	2994924	121.02	48 91	M	3	490	1670	1650	1985	3500	PSME/PICO	PSME	12	ENTIRE AREA
509	WA	-1188753	2994924	121.02	48 91	M	3	490	1670	1650	1985	3500	PSME/THPL	PSME	12	ENTIRE AREA
510	WA	-1188753	2994924	121.02	48 91	M	3	490	1670	1650	1985	3500	PSME/TSHE	PSME	12	ENTIRE AREA
511	WA	-1188753	2994924	121 02	48.91	M	3	490	1670	1650	1985	3500	PSME/ABAM	PSME	12	ENTIRE AREA
512	WA	-1188753	2994924	121.02	48.91	M	3	490	1670	1650	1985	3500	ABAM/ABLA	ABAM	15	ENTIRE AREA
513	WA	-1188753	2994924	121.02	48 91	M	3	490	1670	1650	1985	3500	PICO/ABLA	ABLA	15	ENTIRE AREA
601	OR	-1383896	2346159	122.16	42 85	M	1	1770	1890	1748	1902	330	ABCO	PIPO	5	PANHANDLE
602	OR	-1384314	2347775	122.17	42 87	M	1	1770	1890	1748	1902	230	ABCO	PIPO	5	NW PART
603	OR	-1383591	2347972	122.16	42 87	M	1	1770	1890	1748	1902	190	ABCO	PIPO	5	NE PART
701	OR	-1369832	2473956	122.25	44 00	SW	3	525	1250	1650	1980	-1	PSME/HODI/GRAS	PSME	2	AVG OF 23 PLOTS
702	OR	-1369832	2473956	122 25	44.00	SW	3	488	975	1530	1980	-1	PSME/HODI-ACCI	PSME	2	AVG OF 11 PLOTS
703	OR	-1369832	2473956	122 25	44.00	SW	2	495	977	1657	1980	-1	PSME/BEAQ	PSME	2	AVG OF 9 PLOTS
704	OR	-1369832	2473956	122 25	44 00	SW	3	777	1113	1566	1980	-1	CADE/WHMO	PSME	2	AVG OF 7 PLOTS
705	OR	-1369832	2473956	122 25	44 00	S	3	740	884	1581	1980	-1	CADE/CHUM	PSME	2	AVG OF 5 PLOTS
706	OR	-1369832	2473956	122.25	44 00	M	3	-1	-1	1530	1980	-1	TSHE	-1	2	TSHE PLOTS
801	WA	-1248700	2694733	121.18	46 13	M	2	730	730	1785	1959	-1	PIPO	PIPO	11	ENTIRE AREA
901	WA	-1291890	2764051	121 88	46 69	M	5	760	1525	1300	1969	20500	ABAM	MULT	3	ENTIRE AREA
1001	OR	-1293966	2546246	121 46	44.75	M	2	860	980	1601	1960	440700	PSME	PIPO	10	TENINO BENCH
1002	OR	-1295850	2540217	121 47	44 69	M	4	610	1070	1509	1959	466600	PIPO	PIPO	10	SEEKSEEQUA
1003	OR	-1311673	2520879	121 63	44 50	M	3	980	1220	1540	1941	492500	PSME	PIPO	10	BOULDER CREEK
1004	OR	-1308225	2547269	121 64	44.74	M	3	1280	1400	1614	1934	155500	ABGR	PIPO	10	LIONSHEAD
1101	OR	-1312522	2389856	121 37	43.34	-1	1	1830	1830	1840	1975	-1	PICO	PICO	4	LOOKOUT POINT
1102	OR	-1308089	2379887	121 30	43 26	-1	1	1830	1830	1821	1976	-1	PICO	PICO	4	TIMOTHY SPRINGS
1103	OR	-1308870	2375296	121 30	43 22	-1	1	1800	1800	1821	1976	-1	PICO	PICO	4	JUNGLE SPRINGS
1201	OR	-1354644	2508195	122 13	44.33	M	2	915	1630	1160	1985	1940	ABAM	PSME	3	DEER CREEK
1202	OR	-1362657	2504485	122 23	44.28	M	3	525	1295	1140	1985	1940	TSHE	PSME	2	COOK-QUENTIN
1301	OR	-1366367	2454484	122 17	43.83	M	3	370	1600	1435	1982	11000	TSHE	PSME	2	ENTIRE AREA
1302	OR	-1366367	2454484	122 17	43.83	M	3	370	1600	1435	1982	11000	ABAM	PSME	3	ENTIRE AREA
1401	OR	-1323851	2435251	121 60	43 73	SE	2	1080	1130	1400	1900	97	PIPO/PUTR	PIPO	10	PRINGLE BUTTE
1402	OR	-1329843	2444813	121 70	43 80	-1	2	1190	1270	1600	1900	97	ABCO/CEVE	PIPO	14	LOOKOUT MTN
1403	OR	-1284858	2402404	121 06	43 49	F	1	1190	1190	1600	1900	97	PIPO/PUTR	PIPO	10	CABIN LAKE

Ref/ Site #	State	Albers-E	Albers-N	Lat.	Long	Aspect	Slope	Elev Low	Elev High	Year Start	Year End	Area (ha)	Plant Association	Community dominant	Kuchler Class	Site name
2403	WA	-1126147	2951800	120 10	48 61	S	3	1130	1220	1700	1982	75	PSME	PIPO	12	FIRST BUTTE
2404	WA	-1111033	2968094	119 93	48 77	M	2	1890	2010	1700	1982	75	ABLA/VASC	PICO	15	MEADOWS
2405	WA	-1134411	2956105	120.22	48.63	S	1	790	790	1700	1955	75	PSME/CARU	PIPO	12	EIGHTMILE
2501	WA	-1180192	2877951	120 67	47 87	SE	2	880	990	1659	1983	18	PSME/CARU	PIPO/PSME	4	SITE A
2502	WA	-1176400	2851661	120 57	47 64	N	3	875	950	1667	1980	18	PSME/CARU	PIPO/PSME	12	SITE D
2503	WA	-1195219	2850994	120 81	47 61	SW	3	840	1190	1637	1977	27	PSME/CARU	PIPO/PSME	3	SITE J
2504	WA	-1197543	2878180	120 89	47.85	S	2	840	935	1580	1980	45	PSME/CARU	PIPO/PSME	4	SITE L
2505	WA	-1183206	2876310	120 70	47 85	SE	2	770	780	1584	1983	-1	ABGR/PAMY	PIPO/PSME	4	SITE P
2506	WA	-1211684	2880092	121 08	47 84	-1	-1	-1	-1	1846	1983	-1	TSHE/PAMY	PIPO/PSME	4	SITE R
2507	WA	-1161015	2839721	120.34	47.55	S	2	1120	1140	1504	1983	18	PSME/ARTR	PIPO	12	SITE B
2508	WA	-1245578	2829433	121 42	47.34	S	2	1000	1100	1565	1983	9	PSME/PUTR	PIPO	12	SITE M
2509	WA	-1197543	2878180	120.89	47.85	S	2	840	935	1580	1980	45	PSME/CARU	PIPO/PSME	4	SITE L
2510	WA	-1176400	2851661	120 57	47.64	N	3	875	950	1667	1980	18	PSME/PUTR	PIPO	12	SITE D
2601	OR	-1305272	2568391	121.64	44 93	M	2	915	1220	1565	1957	-1	ABCO	PIPO	14	SF WARM SPRS RIV
2602	OR	-1298200	2580248	121.58	45 05	M	2	915	1220	1663	1957	-1	PIPO	PIPO	10	BUTTE CREEK
2603	OR	-1284668	2573587	121.39	45.01	M	1	790	1090	1641	1957	-1	PIPO	PIPO	10	SIMNASHO BUTTE
2604	OR	-1302621	2545759	121 56	44.73	M	2	1130	1220	1447	1957	-1	PIPO	PIPO	10	TWIN BUTTES
2701	OR	-1327205	2528136	121 83	44.54	M	2	970	2000	1518	1988	13490	ABGR	ABGR	14	ENTIRE AREA
2702	OR	-1327205	2528136	121 83	44 54	M	2	970	2000	1518	1988	13490	ABAM	ABAM	14	ENTIRE AREA
2703	OR	-1327205	2528136	121 83	44.54	M	2	970	2000	1518	1988	13490	TSME	TSME	14	ENTIRE AREA
2704	OR	-1327205	2528136	121 83	44 54	M	2	970	2000	1518	1988	13490	ABLA	ABLA	14	ENTIRE AREA
2705	OR	-1327205	2528136	121 83	44 54	M	2	970	2000	1518	1988	13490	PIAL	PIAL/TSME	14	ENTIRE AREA
2801	OR	-1313667	2512728	121.63	44.43	N	3	915	1220	1754	1903	-1	PSME	PIPO	10	B B - PSME
2802	OR	-1313967	2510889	121.63	44.41	N	3	1160	1525	1820	1903	-1	ABGR	ABGR	10	B B - ABGR
2803	OR	-1315775	2509115	121 65	44 39	SW	3	1035	1525	1720	1903	-1	PIPO	PIPO	10	B B - PIPO
2804	OR	-1312487	2509710	121.61	44 40	E	3	1070	1280	1818	1903	-1	CADE	PIPO	10	B B - CADE
2901	OR	-1260640	2414478	120.78	43 63	-1	-1	-1	-1	1800	1900	-1	PIPO	PIPO	10	WATKINS BUTTE
3001	WA	-1190966	3004838	121.07	49 00	F	1	490	490	1780	1947	1	PSME	PSME	12	ENTIRE AREA
3101	OR	-1131488	2472015	119 29	44 31	SW	2	1520	1520	1590	1992	0	PSME/CAGE	PIPO	14	SITE 1
3102	OR	-1122645	2499571	119.23	44.56	N	2	1520	1520	1600	1992	0	ABGR/VASC	PIPO	14	SITE 2
3103	OR	-1074273	2491433	118 61	44 55	SW	2	1600	1600	1640	1992	0	ABGR/CARU	PIPO	14	SITE 3
3104	OR	-1052550	2486047	118 33	44.53	N	1	1310	1310	1660	1992	0	ABGR/SPBE	PIPO	14	SITE 4
3105	OR	-1046708	2459069	118 21	44 29	E	2	1830	1830	1570	1992	0	ABGR/CARU	PIPO	14	SITE 5
3106	OR	-1101514	2556449	119 06	45.10	SW	2	1220	1220	1560	1992	0	PSME/CARU	PIPO	14	SITE 6
3107	OR	-1088612	2447822	118 71	44.15	SW	2	1520	1520	1630	1992	0	ABGR/CARU	PIPO	14	SITE 7
3108	OR	-1111433	2548478	119 17	55 01	N	2	1830	1830	1590	1992	0	ABGR/CARU	PIPO	14	SITE 8
3109	OR	-1032182	2532766	118 15	44 97	S	2	1830	1830	1760	1992	0	ABGR/CAGE	PIPO	14	SITE 9
3110	OR	-934313	2537155	116 92	45.11	S	1	1280	1280	1790	1992	0	ABGR/VAME	PIPO	14	SITE 10
3111	OR	-1045237	2511672	118 28	44.76	S	2	1615	1615	1650	1992	0	ABGR/CARU	PIPO	14	SITE 11
3112	OR	-1032893	2588317	118.24	45.46	W	1	1070	1070	1790	1992	0	PSME/CAGE	PIPO	14	SITE 12
3113	OR	-1020623	2604475	118 12	45.62	SW	2	1220	1220	1770	1992	0	ABGR/SPBE	PIPO	14	SITE 13
3114	OR	-985783	2630715	117 71	45.89	S	2	1520	1520	1730	1992	0	ABGR/SPBE	PIPO	14	SITE 14
3115	WA	-956545	2670725	117 40	46 28	E	1	1520	1520	1660	1992	0	ABGR/LIBO	PIPO	14	SITE 15
3201	WA	-1179398	2814243	120 53	47 30	SW	1	1706	1761	1690	1976	9	ABLA/CAGE	ABLA	12	SNAG
3202	WA	-1179398	2814243	120 53	47.30	SW	1	1706	1761	1870	1976	2	ABLE/CAGE	PICO	12	THICKET
3301	KS	715838	1835883	96 58	39.08	-1	-1	350	350	1862	1983	-1	QUMA	QUMA	81	KINGS CREEK
3302	KS	715838	1835883	96 58	39 08	-1	-1	350	350	1895	1983	-1	QUMA	QUMA	81	WHITE PASTURE

Ref/ Site #	State	Albers- E	Albers-N	Lat.	Long.	Aspect	Slope	--- Elev --- Low	High	--- Year --- Start	End	Area (ha)	Plant Association	Community dominant	Küchler Class	Site name
3303	KS	715838	1835883	96 58	39 08	-1	-1	350	350	1890	1983	-1	QUMA	QUMA	81	SHANE CREEK
3401	TX	16080	1002255	104 83	31.96	M	5	2150	2550	1554	1980	1700	PSME	MULT	18	S MCKITTRICK CAN WATERSHED
3501	MT	-718383	2810056	114 50	47.77	-1	-1	-1	-1	1440	1985	-1	ABLA	LAOC/PICO	15	MARY'S FROG POND
3601	ID	-887656	2950546	116.94	48.88	-1	-1	840	1830	1770	1979	90	TSHE/THPL/PASP	MULT	13	SALMO/PRIEST 3
3602	ID	-887656	2950546	116.94	48 88	-1	-1	840	1830	1700	1979	90	TSHE/THPL/PASP	MULT	13	SALMO PRIEST 5
3603	ID	-897713	2903707	117 00	48 44	-1	-1	760	1520	1860	1979	90	TSHE/THPL	MULT	13	GOOSE CREEK 6
3604	ID	-887656	2950546	116 94	48 88	-1	-1	840	1830	1771	1979	90	TSHE/THPL/PASP	MULT	13	SALMO /PRIEST 40
3605	ID	-897713	2903707	117 00	48 44	E	-1	1430	1430	-1	1979	90	ABLA/PIEN	MULT	15	GOOSE CREEK 14
3606	ID	-897713	2903707	117 00	48.44	E	-1	1430	1430	-1	1979	90	ABLA/PIEN	MULT	15	GOOSE CREEK 15
3607	ID	-897713	2903707	117.00	48 44	E	-1	1430	1430	1750	1979	90	ABLA/PIEN	MULT	15	GOOSE CREEK 16
3701	ID	-567463	2434565	112 17	44.50	-1	-1	-1	-1	1777	1854	-1	PSME/CARU	PSME/CARU	12	PLEASANT VALLEY
3702	MT	-602206	2448242	112 62	44 60	-1	-1	-1	-1	1726	1890	0	PSME/CARU	PSME/CARU	12	DUTCH HOLLOW
3703	MT	-681982	2568100	113.75	45 62	-1	-1	-1	-1	1662	1902	-1	PSME/CARU	PSME/CARU	12	BIG HOLE BATTLEFIELD
3704	MT	-550478	2489246	112.00	45 00	-1	-1	-1	-1	1734	1871	-1	PSME/CARU	PSME/CARU	12	VIGILANTE STATION AREA
3705	MT	-553810	2535941	112 08	45 42	-1	-1	-1	-1	1566	1856	0	PSME/CARU	PSME/CARU	12	CALIFORNIA CREEK
3706	MT	-433141	2472823	110.50	44.92	-1	-1	-1	-1	1718	1865	-1	PSME/CARU	PSME/CARU	12	PAPOOSE CREEK
3707	MT	-591756	2464239	112 50	44 75	-1	-1	-1	-1	1609	1894	-1	PSME/FEID	PSME/FIED	12	BASIN CREEK
3708	MT	-637664	2467717	113.08	44.75	-1	-1	-1	-1	1554	1795	-1	PSME/FEID	PSME/FIED	12	HORSE PRAIRIE CR
3709	MT	-640603	2514493	113 17	45 17	-1	-1	-1	-1	1585	1884	-1	PSME/FEID	PSME/FIED	12	BANNACK
3710	MT	-556720	2532426	112 12	45 38	-1	-1	-1	-1	1578	1886	-1	PSME/FEID	PSME/FIED	12	SITE 12
3711	ID	-428075	2444660	110.42	44.67	-1	-1	-1	-1	1694	1862	-1	PSME/FEID	PSME/FIED	12	HENRYS LAKE
3712	MT	-588485	2473310	112.47	44 83	-1	-1	-1	-1	1588	1877	-1	PIFL/AGSP	PIFL/AGSP	12	PRICES CREEK
3801	MT	-699568	2685238	114 11	46 66	ESE	2	1097	1219	1668	1936	180	PSME/AGSP	PSME/PIPO	12	ONEHORSE VALLEY EDGE
3802	MT	-701574	2685262	114.13	46.65	E	2	1219	1859	1366	1936	180	PSME/PHMA	PSME/PIPO	12	ONEHORSE MONTANE SLOPES
3803	MT	-701185	2686152	114 13	46.66	SE	2	1250	1524	1594	1936	180	ABGR	LAOC/PICO/PSME	12	ONEHORSE MOIST CANYON
3804	MT	-703142	2685863	114 15	46 66	SE	2	1859	2195	1631	1936	180	ABLA/XETE,PSME/VAGL	PICO/PSME	12	ONEHORSE LOWER SUBALPINE SLOPES
3805	MT	-704160	2686571	114 17	46 66	SSE	2	2103	2438	1608	1936	180	ABLA/LUHI,PIAL/ABLA	PIAL/PICO	12	ONEHORSE UPPER SUBALPINE SLOPES
3806	MT	-690941	2689413	114 00	46 70	-1	-1	1158	1524	1686	1935	180	PSME/AGSP	PSME/PIPO	12	TOLAN VALLEY EDGE
3807	MT	-691349	2592897	113.90	45.83	M	5	1280	1890	1574	1935	180	PSME/PHMA	PSME/PIPO	12	TOLAN MONTANE SLOPES
3808	MT	-687742	2591256	113.85	45 82	M	5	1829	2286	1636	1935	180	ABLA/XETE,PSME/VAGL	PICO/PSME	12	TOLAN LOWER SUBALPINE SLOPES
3809	MT	-685503	2585492	113 81	45 77	M	5	2286	2073	1595	1935	180	ABLA/LUHI,PIAL/ABLA	PIAL/PICO	12	TOLAN UPPER SUBALPINE SLOPES
3810	MT	-719269	2594280	114 26	45.82	SE	1	1387	2134	1695	1948	180	PSME/AGSP	PSME/PIPO	12	WESTFORK VALLEY EDGE
3811	MT	-722086	2594225	114.29	45.82	M	5	1387	2134	1573	1948	180	PSME/PHMA	PSME/PIPO	12	WESTFORK MONTANE SLOPES
3812	MT	-724052	2594094	114 32	45.82	M	5	1829	2438	1660	1948	180	ABLA/XETE,PSME/VAGL	PICO/PSME	12	WESTFORK LOWER SUBALPINE SLOPES
3813	MT	-724300	2595665	114 32	45 83	SE	5	2134	2591	1695	1948	180	ABLA/LUHI,PIAL/ABLA	PIAL/PICO	15	WESTFORK UPPER SUBALPINE SLOPES
3901	AZ	-513307	1045501	110 54	32 22	NNW	2	2440	2600	1510	1930	10	PSME/PIPO/QUGM	MULT	19	NORTH SLOPE
3902	AZ	-514225	1043981	110.55	32.21	M	2	2400	2450	1500	1960	6	PIPO	PIPO	19	MANNING CAMP
3903	AZ	-515107	1044814	110 56	32.22	W	2	2500	2530	1580	1925	5	PIPO	PIPO	19	HELEN'S DOME
3904	AZ	-513358	1044563	110 54	32 21	SSW	2	2520	2520	1490	1960	3	PSME	PIPO	19	MICA MEADOW
3905	AZ	-513450	1044568	110 54	32.21	M	5	2190	2600	1490	1960	2000	PSME/PIPO/QUGM	MULT	19	MIKA MTN COMPOSITE OF SITES 1-4
3906	AZ	-512075	1033888	110 52	32.12	-1	2	2200	2200	1480	1930	-1	PSME/PIPO/QUGM	MULT	19	RINCON PEAK
4001	UT	-596190	1817486	112.00	39 00	-1	-1	-1	-1	1770	1904	-1	ABCO/PIEN	MULT	15	EPHRAIM CANYON
4101	ID	-746047	2541532	114 54	45 33	M	-1	914	1524	1707	1984	1215	PSME	PIPO/PSME	12	COLSON CREEK
4102	ID	-774567	2556735	114 92	45.44	M	-1	1219	1524	1730	1984	1619	PSME	PIPO/PSME	12	CHAIMBERLAIN
4201	MT	-721087	2780811	114 50	47 50	-1	-1	-1	-1	1776	1980	122	PSME	PIPO/PSME	12	FIVEMILE CR
4202	MT	-721087	2780811	114 50	47 50	-1	-1	-1	-1	1776	1980	122	PSME	PIPO/PSME	12	RAINY CR
4203	MT	-721087	2780811	114 50	47 50	-1	-1	-1	-1	1697	1980	122	PSME	PIPO/PSME	12	MCCALLA CR

Ref/ Site #	State	Albers- E	Albers-N	Lat.	Long.	Aspect	Slope	--- Elev --- Low	High	--- Year --- Start	End	Area (ha)	Plant Association	Community dominant	Küchler Class	Site name
4204	MT	-721087	2780811	114 50	47 50	-1	-1	-1	-1	1697	1980	122	PSME	PIPO/PSME	12	CUTOFF GULCH
4205	MT	-721087	2780811	114 50	47.50	-1	-1	-1	-1	1704	1980	122	PSME	PIPO/PSME	12	SIXMILE CR
4206	MT	-721087	2780811	114.50	47 50	-1	-1	-1	-1	1704	1980	122	PSME	PIPO/PSME	12	ROCK CR
4207	MT	-721087	2780811	114 50	47 50	-1	-1	-1	-1	1737	1980	122	PSME	PIPO/PSME	12	GOAT MT
4208	MT	-721087	2780811	114 50	47 50	-1	-1	-1	-1	1737	1980	122	PSME	PIPO/PSME	12	SLEEPING CHILD CR
4209	MT	-721087	2780811	114 50	47 50	-1	-1	-1	-1	1797	1980	122	PSME	PIPO/PSME	12	FAIRVIEW
4210	MT	-721087	2780811	114 50	47 50	-1	-1	-1	-1	1797	1980	122	PSME	PIPO/PSME	12	DOAK CR
4211	MT	-721087	2780811	114.50	47.50	-1	-1	-1	-1	1700	1980	122	PSME	PIPO/PSME	12	HAY CR
4212	MT	-721087	2780811	114.50	47 50	-1	-1	-1	-1	1700	1980	122	PSME	PIPO/PSME	12	THOMPSON CR
4213	MT	-721087	2780811	114.50	47.50	-1	-1	-1	-1	1772	1980	122	PSME	PIPO/PSME	12	HOUGHES CR
4214	MT	-721087	2780811	114 50	47 50	-1	-1	-1	-1	1772	1980	122	PSME	PIPO/PSME	12	HOG TROUGH CR
4215	MT	-721087	2780811	114 50	47.50	-1	-1	-1	-1	1710	1980	122	PSME	PIPO/PSME	12	HOG HEAVEN
4216	MT	-721087	2780811	114.50	47.50	-1	-1	-1	-1	1710	1980	122	PSME	PIPO/PSME	12	N BASSOO CR
4217	MT	-721087	2780811	114.50	47.50	-1	-1	-1	-1	1695	1980	122	PSME	PIPO/PSME	12	INDIAN TREES
4218	MT	-721087	2780811	114.50	47 50	-1	-1	-1	-1	1695	1980	122	PSME	PIPO/PSME	12	RAILROAD CR
4219	MT	-721087	2780811	114.50	47 50	-1	-1	-1	-1	1729	1980	122	PSME	PIPO/PSME	12	MCCARTNEY CR
4220	MT	-721087	2780811	114 50	47 50	-1	-1	-1	-1	1729	1980	122	PSME	PIPO/PSME	12	TWO BEAR CR
4301	MT	-689359	2921315	114 25	48 80	-1	-1	-1	-1	1650	1988	-1	PSME	MULT	12	NF15
4302	MT	-689359	2921315	114 25	48 80	-1	-1	-1	-1	1650	1988	-1	PSME	MULT	12	NF1
4303	MT	-689359	2921315	114.25	48 80	-1	-1	-1	-1	1650	1988	-1	PSME	MULT	12	NF8
4304	MT	-689359	2921315	114.25	48 80	-1	-1	-1	-1	1650	1988	-1	PSME	MULT	12	NF14
4305	MT	-689359	2921315	114 25	48 80	-1	-1	-1	-1	1650	1988	-1	PSME	MULT	12	NF2
4306	MT	-689359	2921315	114 25	48.80	-1	-1	-1	-1	1650	1988	-1	PSME	MULT	12	NF9
4307	MT	-689359	2921315	114 25	48 80	-1	-1	-1	-1	1650	1988	-1	PSME	MULT	12	NF3
4308	MT	-689359	2921315	114.25	48.80	-1	-1	-1	-1	1650	1988	-1	PSME	MULT	12	NF7
4309	MT	-689359	2921315	114 25	48 80	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	NF5
4310	MT	-689359	2921315	114 25	48 80	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	NF18
4311	MT	-689359	2921315	114.25	48 80	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	NF17
4312	MT	-689359	2921315	114.25	48 80	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	NF16
4313	MT	-689359	2921315	114.25	48 80	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	NF4
4314	MT	-689359	2921315	114 25	48 80	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	NF6
4315	MT	-689359	2921315	114 25	48 80	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	NF19
4316	MT	-689359	2921315	114 25	48 80	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	NF13
4317	MT	-689359	2921315	114 25	48 80	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	NF20
4318	MT	-689359	2921315	114.25	48 80	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	NF10
4319	MT	-689359	2921315	114 25	48 80	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	NF11
4320	MT	-689359	2921315	114 25	48 80	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	NF12
4321	MT	-670474	2902536	113.98	48 64	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	MC34
4322	MT	-670474	2902536	113.98	48 64	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	MC35
4323	MT	-670474	2902536	113.98	48 64	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	MF1
4324	MT	-670474	2902536	113 98	48 64	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	MF3
4325	MT	-670474	2902536	113 98	48 64	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	MF10
4326	MT	-670474	2902536	113 98	48 64	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	MF4
4327	MT	-670474	2902536	113 98	48 64	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	MF7
4328	MT	-670474	2902536	113 98	48 64	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	MC8
4329	MT	-670474	2902536	113 98	48 64	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	MC43
4330	MT	-670474	2902536	113 98	48 64	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	MF8

Ref/ Site #	State	Albers-E	Albers-N	Lat.	Long.	Aspect	Slope	Elev Low	Elev High	Year Start	Year End	Area (ha)	Plant Association	Community dominant	Küchler Class	Site name
4331	MT	-670474	2902536	113 98	48 64	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	MC23
4332	MT	-670474	2902536	113 98	48 64	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	MF6
4333	MT	-670474	2902536	113 98	48 64	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	MF5
4334	MT	-649022	2881899	113 67	48 47	-1	-1	-1	-1	1650	1988	-1	ABLA	MULT	15	MC25
4335	MT	-649022	2881899	113 67	48.47	-1	-1	-1	-1	1650	1988	-1	TSHE/THPL	MULT	13	MC30
4336	MT	-649022	2881899	113 67	48 47	-1	-1	-1	-1	1650	1988	-1	TSHE/THPL	MULT	13	MC40
4337	MT	-649022	2881899	113 67	48.47	-1	-1	-1	-1	1650	1988	-1	TSHE/THPL	MULT	13	MC12
4338	MT	-649022	2881899	113 67	48 47	-1	-1	-1	-1	1650	1988	-1	TSHE/THPL	MULT	13	MC39
4339	MT	-649022	2881899	113 67	48.47	-1	-1	-1	-1	1650	1988	-1	TSHE/THPL	MULT	13	MC42
4401	CA	-1581371	2101280	124 00	40 40	S	3	175	175	1714	1955	0	SESE	SESE	6	PRN1
4402	CA	-1581371	2101280	124.00	40 40	S	3	175	175	1714	1966	0	SESE	SESE	6	PRN2
4403	CA	-1581371	2101280	124 00	40.40	-1	-1	175	175	1714	1973	0	SESE	SESE	6	PRC2
4404	CA	-1581371	2101280	124 00	40.40	-1	-1	175	175	1715	1968	0	SESE	SESE	6	PRC5
4405	CA	-1581371	2101280	124.00	40.40	-1	-1	175	175	1715	1985	0	SESE	SESE	6	PRC7
4406	CA	-1581371	2101280	124 00	40 40	-1	-1	175	175	1715	1938	0	SESE	SESE	6	PRC8
4407	CA	-1581371	2101280	124 00	40.40	-1	-1	175	175	1716	1947	0	SESE	SESE	6	PRC9
4408	CA	-1581371	2101280	124 00	40 40	-1	-1	175	175	1714	1969	0	SESE	SESE	6	PRC11
4409	CA	-1581371	2101280	124 00	40.40	-1	-1	175	175	1714	1954	0	SESE	SESE	6	PRC14
4410	CA	-1581371	2101280	124 00	40 40	-1	-1	175	175	1714	1985	0	SESE	SESE	6	PRC16
4411	CA	-1581371	2101280	124 00	40.40	-1	-1	175	175	1714	1953	0	SESE	SESE	6	PRC17
4412	CA	-1581371	2101280	124 00	40 40	-1	-1	175	175	1714	1985	0	SESE	SESE	6	PRC18
4413	CA	-1581371	2101280	124.00	40.40	-1	-1	175	175	1714	1985	4	SESE	SESE	6	COMPOSITE
4501	ID	-948352	2258054	116 69	42.62	-1	-1	1826	1826	1690	1950	260	JUOC	JUOC/ARTR	24	INDIAN MEADOWS
4502	ID	-796773	2242174	114 82	42 62	-1	-1	1826	1826	1710	1950	260	JUOC	JUOC/ARTR	24	MUDD FLAT
4503	ID	-955881	2281484	116.82	42 82	-1	-1	1826	1826	1650	1950	260	JUOC	JUOC/ARTR	24	COMBINATION RIDGE
4504	ID	-844834	2211206	115 37	42.30	-1	-1	1826	1826	1700	1950	260	JUOC	JUOC/ARTR	24	JUNIPER MOUNTAIN
4601	CO	-48815	1952371	105 58	40 38	-1	-1	2682	3292	1605	1974	-1	ABLA/PIEN	PICO	15	EAST SIDE OF PARK
4701	CA	-1512410	1801554	122 58	37 89	M	-1	134	134	1670	1969	11	PSME/SESE	SESE	6	SITE A MUIR WOODS
4702	CA	-1511973	1802051	122.58	37 90	F	-1	134	134	1670	1969	10	PSME/SESE	SESE	6	SITE B MUIR WOODS
4801	MT	-671860	2874591	113 96	48.39	-1	-1	1000	1140	1602	1976	-1	PSME	LAOC/PSME	12	VALLEYS
4802	MT	-671860	2874591	113 96	48.39	-1	-1	1200	1650	1602	1976	-1	PSME	PSME	12	MONTANE SLOPES
4803	MT	-671860	2874591	113 96	48.39	-1	-1	1575	1800	1602	1976	-1	ABLA/PSME	PSME	15	LOWER SUPALPINE SLOPES
4804	MT	-671860	2874591	113 96	48 39	-1	-1	1800	1910	1602	1976	-1	ABLA/PSME	MULT	15	UPPER SUBALPINE SLOPES
4805	MT	-671860	2874591	113 96	48.39	M	5	1006	1911	1602	1976	2984	ABLA/PSME	MULT	15	ENTIRE CORAM FOREST
4901	AZ	-599453	1394512	111 71	35.26	SSE	1	2249	2249	1694	1976	-1	PIPO	PIPO	19	1
4902	AZ	-596791	1394150	111 69	35.26	SSW	1	2239	2239	-1	1976	-1	PIPO	PIPO	19	2
4903	AZ	-596793	1394118	111 68	35.26	SSW	1	2237	2237	1577	1976	-1	PIPO	PIPO	19	3
4904	AZ	-596808	1393900	111 69	35 26	SSW	1	2233	2233	1673	1976	-1	PIPO	PIPO	19	4
4905	AZ	-596808	1393900	111 68	35 26	SSW	1	2233	2233	-1	1976	-1	PIPO	PIPO	19	5
4906	AZ	-596866	1394375	111 69	35.26	SSE	1	2245	2245	1667	1873	-1	PIPO	PIPO	19	6
4907	AZ	-596674	1394583	111 68	35.26	SSW	1	2263	2263	1440	1976	-1	PIPO	PIPO	19	7
4908	AZ	-596866	1394375	111 69	35.26	S	1	2233	2263	1440	1976	17	PIPO	PIPO	19	ENTIRE AREA
5001	AZ	-367164	1126588	109 00	33 00	M	2	2682	2774	1608	1978	166	PIPU/PIEN/SECA	ABCO/PSME	20	SOUTH THOMAS CREEK
5101	AZ	-601035	1280030	111 65	34 25	-1	-1	2103	2103	1722	1980	41	PIPO	PIPO	19	LIMESTONE FLATS
5102	CO	-260053	1650485	108 00	37 67	-1	-1	-1	-1	1750	1975	-1	QUGM	PIPO/QUGM	19	SAN JUAN NATIONAL FOREST
5201	AZ	-663591	1290423	112 35	34 30	-1	-1	1524	1615	1736	1870	-1	PIPO	PIPO	19	STEM 1
5202	AZ	-663591	1290423	112 35	34.30	-1	-1	1524	1615	1775	1870	-1	PIPO	PIPO	19	STEM 2

Ref/ Site #	State	Albers- E	Albers-N	Lat	Long	Aspect	Slope	--- Elev --- Low	High	--- Year --- Start	End	Area (ha)	Plant Association	Community dominant	Küchler Class	Site name
5203	AZ	-663591	1290423	112.35	34 30	-1	-1	1554	1554	1713	1875	-1	PIPO	PIPO	19	STEM 4
5204	AZ	-663591	1290423	112 35	34.30	-1	-1	1554	1554	1722	1860	-1	PIPO	PIPO	19	STEM 5
5205	AZ	-663591	1290423	112 35	34 30	-1	-1	1554	1554	1700	1890	-1	PIPO	PIPO	19	STEM 6
5206	AZ	-663591	1290423	112 35	34.30	-1	-1	1554	1554	1760	1863	-1	PIPO	PIPO	19	STEM 7
5207	AZ	-663591	1290423	112.35	34.30	-1	-1	1554	1554	1755	1861	-1	PIPO	PIPO	19	STEM 8
5301	AZ	-601035	1280030	111 65	34 25	-1	-1	2103	2103	1669	1968	0	PIPO	PIPO	19	ENTIRE AREA
5401	CA	-1060139	1171765	116 56	32.94	-1	-1	1073	1985	1750	1900	-1	CADE	PILA/LIDE	5	CUYAMACA RANCHO STATE PARK
5501	CA	-1561328	1888596	123 32	38 58	SW	2	61	274	1540	1988	200	SESE/PIMU/CADE	SESE	6	SALT POINT -NORTH
5502	CA	-1560741	1887503	123 31	38.57	SW	2	61	274	1650	1988	200	SESE/PIMU/CADE	SESE	6	SALT POINT - SOUTH
5503	CA	-1559618	1887938	123.29	38 57	M	5	61	274	1200	1988	200	SESE/PIMU/CADE	SESE	6	SALT POINT -EAST
5601	CA	-1504823	1861259	122 61	38 43	-1	-1	-1	-1	1630	1860	0	SESE	SESE	6	A
5602	CA	-1504823	1861259	122 61	38.43	-1	-1	-1	-1	1509	1860	0	SESE	SESE	6	B
5603	CA	-1504823	1861259	122.61	38 43	-1	-1	-1	-1	1400	1860	0	SESE	SESE	6	C
5604	CA	-1504823	1861259	122 61	38 43	-1	-1	-1	-1	1366	1860	0	SESE	SESE	6	D
5605	CA	-1504823	1861259	122.61	38 43	-1	-1	-1	-1	1406	1860	0	SESE	SESE	6	E
5606	CA	-1504823	1861259	122 61	38 43	-1	-1	-1	-1	1520	1860	0	SESE	SESE	6	F
5607	CA	-1504823	1861259	122.61	38.43	-1	-1	-1	-1	1579	1860	0	SESE	SESE	6	G
5608	CA	-1504823	1861259	122 61	38 43	-1	-1	-1	-1	1645	1860	0	SESE	SESE	6	H
5609	CA	-1504823	1861259	122.61	38.43	-1	-1	-1	-1	1681	1860	0	SESE	SESE	6	I
5610	CA	-1504823	1861259	122.61	38.43	-1	-1	-1	-1	1780	1860	0	SESE	SESE	6	J
5611	CA	-1504823	1861259	122 61	38 43	-1	-1	-1	-1	1616	1860	0	SESE	SESE	6	K
5612	CA	-1504823	1861259	122.61	38.43	-1	-1	-1	-1	1541	1860	0	SESE	SESE	6	L
5613	CA	-1504823	1861259	122.61	38 43	-1	-1	-1	-1	1376	1860	0	SESE	SESE	6	M
5614	CA	-1504823	1861259	122.61	38 43	-1	-1	-1	-1	1769	1860	0	SESE	SESE	6	N
5701	NM	-116145	1430863	106.31	35 75	-1	-1	-1	-1	-1	1977	-1	PIPO	PIPO	19	BANDELIER NATIONAL MONUMENT
5801	MT	-666239	2804797	113 81	47.76	-1	-1	1036	1036	1859	1905	0	ABLA/CLUN	PICO	15	STAND 1
5802	MT	-667023	2803637	113 82	47 75	-1	-1	1006	1006	1839	1905	0	ABLA/CLUN	PICO	15	STAND 10
5803	MT	-665293	2801647	113.79	47.73	-1	-1	1097	1097	1839	1905	0	ABLA/CLUN	PICO	15	STAND 15
5804	MT	-663769	2797219	113 77	47 69	-1	-1	1128	1128	1867	1905	0	ABLA/CLUN	PICO	15	STAND 17
5805	MT	-666970	2796265	113 81	47 68	-1	-1	1036	1036	1839	1905	0	ABLA/CLUN	PICO	15	STAND 58
5806	MT	-662964	2796845	113.76	47 69	-1	-1	1128	1128	1758	1905	0	ABLA/CLUN	PICO	15	STAND 52
5807	MT	-656550	2792617	113.67	47.66	-1	-1	1097	1097	1670	1905	0	ABLA/ABGR/PSME	PIPO	14	STAND 21
5808	MT	-661205	2789788	113.73	47 63	-1	-1	1097	1097	1768	1905	0	ABLA/ABGR/PSME	PIPO	14	STAND 48
5809	MT	-663134	2789491	113 75	47 63	-1	-1	1097	1097	1768	1905	0	ABLA/ABGR/PSME	PIPO	14	STAND 23
5810	MT	-660191	2786477	113.71	47.60	-1	-1	1158	1158	1652	1905	0	ABLA/ABGR/PSME	PIPO	14	STAND 27
5811	MT	-660191	2786477	113 71	47.60	-1	-1	1158	1158	1652	1905	0	ABLA/ABGR/PSME	PIPO	14	STAND 29
5812	MT	-660191	2786477	113 71	47.60	-1	-1	1158	1158	1812	1905	0	ABLA/ABGR/PSME	PIPO	14	STAND 31
5813	MT	-660191	2786477	113.71	47 60	-1	-1	1158	1158	1770	1905	0	ABLA/ABGR/PSME	PIPO	14	STAND 35
5814	MT	-660191	2786477	113 71	47.60	-1	-1	1158	1158	1758	1905	0	ABLA/ABGR/PSME	PIPO	14	STAND 36
5815	MT	-660191	2786477	113.71	47.60	-1	-1	1158	1158	1815	1905	0	ABLA/ABGR/PSME	PIPO	14	STAND 40
5816	MT	-657784	2777981	113.67	47 53	-1	-1	1158	1158	1710	1905	0	ABLA/ABGR/PSME	PIPO	14	STAND 44
5901	MN	746114	2748544	95.21	47 19	M	5	429	517	1650	1922	12972	ACSA/TIAM	MULT	99	ENTIRE AREA
6001	CA	-1565801	2147529	123.92	40 83	-1	-1	-1	-1	928	1928	12	SESE	SESE	6	HUMBOLDT COUNTY
6101	MT	-613252	2759796	113 06	47 39	M	5	1430	2000	1835	1944	-1	PSME/LIBO	PICO	12	NORTH OF RAPID CREEK
6102	MT	-613560	2752937	113 06	47 33	M	5	1430	2000	1749	1944	-1	PSME/LIBO	PICO	12	SOUTH OF RAPID CREEK
6103	MT	-612667	2757508	113 05	47 37	M	5	1430	2000	1844	1926	33000	PSME/LIBO	PICO	12	ENTIRE AREA UNDER 2,000 M ELEV
6104	MT	-612667	2757508	113 05	47 37	M	5	2000	2400	1785	1936	-1	ABLA	ABLA	15	ENTIRE AREA OVER 2,000 M ELEV

Ref/ Site #	State	Albers- E	Albers-N	Lat.	Long	Aspect	Slope	— Elev — Low	High	--- Year --- Start	End	Area (ha)	Plant Association	Community dominant	Küchler Class	Site name
6201	CO	-5213	1773467	105 06	38 79	M	-1	1981	4312	1846	1904	20445	PIEN	MULT	15	ENTIRE PIKES PEAK RESERVE
6202	CO	-5213	1773467	105 06	38 79	M	-1	1981	4312	1846	1904	-1	PIEN	ABMA	15	SOUTHERN BORDER OF RESERVE
6301	CO	-37675	1914764	105.45	40 04	M	5	2375	2685	1721	1949	600	PSME	MULT	12	FOURMILE CANYON
6401	CA	-1417575	1624390	121.18	36 48	NNW	3	402	402	1866	1982	-1	ADFA/ARGL/CEIN	MULT	33	VISITOR CENTER
6402	CA	-1421981	1627504	121 23	36 50	M	5	488	695	1845	1982	-1	ADFA/ARGL/CEIN	MULT	33	WEST BOUNDARY MONUMENT
6403	CA	-1460093	1697732	121 79	37 06	M	-1	-1	-1	1844	1982	-1	PSME	MULT	29	SANTA CRUZ MTS
6404	CA	-1460093	1697732	121 79	37 06	M	-1	-1	-1	1888	1982	-1	PSME	MULT	29	EAST BOUNDARY SANTA CRUZ CO
6405	CA	-1460093	1697732	121 79	37 06	M	-1	-1	-1	1708	1982	-1	PSME	MULT	29	E BDRY SANTA CRUZ COUNTY #2
6406	CA	-1494463	1717709	122 21	37.19	M	-1	-1	-1	1420	1982	-1	PSME	MULT	-1	SANTA CRUZ COUNTY
6407	CA	-1494463	1717709	122.21	37 19	M	-1	73	683	1420	1982	-1	SESE	MULT	6	BIG BASIN STATE PARK-PINE
6408	CA	-1494463	1717709	122.21	37 19	M	-1	73	683	-1	1982	-1	PSME	MULT	29	BIG BASIN ST PK.-XERIC CONIFER
6409	CA	-1494463	1717709	122 21	37.19	M	-1	73	683	-1	1982	-1	ACMA	MULT	25	BIG BASIN STATE PARK-RIPARIAN
6410	CA	-1494463	1717709	122.21	37 19	M	-1	73	683	-1	1982	-1	SESE	MULT	6	BIG BASIN ST PK-MESIC CONIFER
6411	CA	-1494463	1717709	122 21	37 19	M	-1	73	683	-1	1982	-1	ADFA/ARGL/CEIN	MULT	33	BIG BASIN STATE PARK-CHAPARRAL
6412	CA	-1494463	1717709	122.21	37.19	M	-1	73	683	-1	1982	-1	SESE	SESE	6	BIG BASIN STATE PARK-REDWOOD
6501	ID	-786654	2700233	115 25	46 72	N	1	848	909	1613	1982	41	THPL/PASP	THPL	13	KELLY FORKS CAMPGROUND
6502	ID	-801055	2683150	115.42	46.55	W	2	848	848	1769	1982	41	THPL/PASP	THPL	13	DORIS CREEK
6503	ID	-798118	2693048	115.39	46 64	N	1	727	727	1700	1982	41	THPL/PASP	THPL	13	FAWN CREEK
6504	ID	-794525	2683417	115.33	46 56	N	3	727	848	1736	1982	41	THPL/PASP	THPL	13	FORTH OF JULY PACKBRIDGE
6505	ID	-778868	2698534	115 15	46.71	N	4	1212	1212	1772	1982	41	THPL/PASP	THPL	13	SLICK CREEK
6506	ID	-793910	2689534	115 33	46 61	N	2	1455	1455	1795	1982	41	THPL/PASP	THPL	13	DAVIS CREEK
6507	ID	-786953	2681732	115 23	46 55	NW	2	1000	1000	1736	1982	41	THPL/PASP	THPL	13	WINDY PACKBRIDGE
6508	ID	-807250	2671014	115 48	46 44	NW	1	727	727	1736	1982	41	THPL/PASP	THPL	13	WEITAS CAMPGROUND
6509	ID	-789544	2701449	115.29	46.73	NW	2	848	848	1736	1982	41	THPL/PASP	THPL	13	HIGH CREEK
6510	ID	-800060	2694480	115 42	46.65	N	1	788	848	1819	1982	41	THPL/PASP	THPL	13	CUB CREEK
6511	ID	-795886	2689115	115.36	46 61	W	5	788	788	1749	1982	41	THPL/PASP	THPL	13	JOHNNY PACKBRIDGE
6512	ID	-789682	2693125	115 28	46 65	S	3	1515	1545	1680	1982	41	ABGR/PASP	ABGR	14	CANYON CREEK
6513	ID	-802262	2685745	115.44	46.57	W	2	1152	1152	1834	1982	41	ABGR/PASP	ABGR	14	COOK ROAD#1
6514	ID	-778331	2697709	115.14	46.70	W	3	970	1030	1842	1982	41	ABGR/PASP	ABGR	14	SLICK RIDGE SOUTH
6515	ID	-799014	2685724	115 39	46 58	N	2	1303	1303	1772	1982	41	ABGR/PASP	ABGR	14	COOK ROAD #3
6516	ID	-802769	2685333	115 44	46 57	SW	2	1000	1000	1808	1982	41	ABGR/PASP	ABGR	14	COOK ROAD #2
6517	ID	-786516	2699293	115 25	46 71	N	3	909	1091	1848	1982	41	ABGR/PASP	ABGR	14	JUNCTION PACKTRAIL
6518	ID	-800853	2685138	115.42	46.57	N	3	909	1152	1842	1982	41	ABGR/PASP	ABGR	14	DORIS RIDGE
6519	ID	-790341	2695044	115.29	46 67	NW	1	1970	1970	1680	1982	41	ABLA-TSME	MULT	15	COOK MOUNTAIN NORTH
6520	ID	-785114	2686986	115.22	46 60	W	5	2061	2061	1786	1982	41	ABLA-TSME	MULT	15	LOOKOUT PEAK
6521	ID	-791331	2683622	115 29	46 56	SW	1	1848	1848	1796	1982	41	ABLA-TSME	MULT	15	CRATER MEADOWS NORTH
6522	ID	-789851	2696848	115 29	46 68	SW	2	1848	1848	1736	1982	41	ABLA-TSME	MULT	15	JUNCTION LOOKOUT WEST
6523	ID	-785133	2686802	115 22	46 60	SW	5	1818	1818	1766	1982	41	ABLA-TSME	MULT	15	LOOKOUT PEAK SOUTH
6524	ID	-783896	2692239	115 21	46 65	SW	1	1667	1667	1740	1982	41	ABLA-TSME	MULT	15	PARADISE MEADOWS
6525	ID	-791178	2683606	115 29	46.56	SW	1	1909	1909	1799	1982	41	ABLA-TSME	MULT	15	CRATER MEADOWS EAST
6526	ID	-785680	2681296	115.22	46 55	S	2	1818	1818	1794	1982	41	ABLA-TSME	MULT	15	MONROE BUTTE NORTH
6527	ID	-788535	2696098	115 27	46 68	SW	5	1879	1879	1796	1982	41	ABLA-TSME	MULT	15	JUNCTION LAKE POINT
6528	ID	-791291	2685564	115 29	46 58	S	1	1970	1970	1799	1982	41	ABLA-TSME	MULT	15	COOK MTN SOUTH
6601	WY	-446148	2330087	110.57	43 63	E	-1	2088	2088	1879	1971	0	PSME	POTR	12	1A
6602	WY	-446148	2330087	110 57	43 63	W	-1	2088	2088	1879	1971	0	PSME	POTR	12	1B
6603	WY	-424599	2319774	110.29	43 55	E	-1	2271	2271	1872	1971	0	PSME	POTR	12	3
6604	WY	-417685	2322997	110 21	43 58	SW	-1	2378	2378	1850	1971	0	PSME	POTR	12	4A

Ref/ Site #	State	Albers-E	Albers-N	Lat.	Long	Aspect	Slope	--- Elev --- Low	High	--- Year --- Start	End	Area (ha)	Plant Association	Community dominant	Kuchler Class	Site name
6605	WY	-417685	2322997	110 21	43 58	N	-1	2378	2378	1850	1971	0	PSME	POTR	12	4B
6606	WY	-430990	2342032	110 39	43 75	-1	-1	2329	2329	1850	1971	0	PSME	POTR	12	5A
6607	WY	-430990	2342032	110 39	43 75	-1	-1	2329	2329	1850	1971	0	PSME	POTR	12	5B
6608	WY	-430990	2342032	110 39	43 75	-1	-1	2329	2329	1850	1971	0	PSME	POTR	12	5C
6609	WY	-449799	2338218	110 62	43 70	-1	-1	2104	2104	1856	1971	0	PSME	POTR	12	6A
6610	WY	-449799	2338218	110 62	43 70	-1	-1	2104	2104	1856	1971	0	PSME	POTR	12	6B
6611	WY	-439547	2361914	110.51	43 92	-1	-1	2256	2256	1880	1971	0	PSME	POTR	12	7A
6612	WY	-454939	2291350	110 65	43.28	-1	-1	1890	1890	1872	1971	0	PSME	POTR	12	8A
6613	WY	-454939	2291350	110.65	43 28	-1	-1	1890	1890	1872	1971	0	PSME	POTR	12	8B
6701	MT	-714963	2622207	114.23	46.08	SSE	2	1384	1384	1648	1900	0	PSME/CARU	PIPO	12	PHOTOPOINT 3
6702	MT	-714963	2622207	114 23	46 08	SSE	2	1372	1372	1724	1900	0	PSME/CARU	PIPO	12	PHOTOPOINT 2
6703	MT	-714963	2622207	114 23	46 08	SE	2	1356	1356	1617	1900	0	PSME/CARU	PIPO	12	PHOTOPOINT 1
6704	MT	-714963	2622207	114.23	46.08	SSE	2	1372	1372	1838	1900	0	PSME/CARU	PIPO	12	PHOTOPOINT 6-LIVE TREE
6705	MT	-714963	2622207	114.23	46 08	SSE	2	1372	1372	1752	1900	0	PSME/CARU	PIPO	12	PHOTOPOINT 6-DEAD TREE
6706	MT	-714963	2622207	114 23	46 08	NE	2	1344	1344	1428	1900	0	PSME/CARU	PIPO	12	PHOTOPOINT 8
6707	MT	-714963	2622207	114.23	46.08	M	2	1372	1372	1428	1900	130	PSME/CARU	PIPO	12	ENTIRE STUDY AREA
6801	MN	1029066	2870971	91 33	48 00	M	-1	366	640	1542	1972	215000	ACSA/FAGR/TSCA	MULT	95	BOUNDARY WATERS CANOE AREA
6901	WY	-471719	2487988	111 00	45 03	-1	-1	1500	1800	1664	1970	-1	AGSP/FEID	MULT	50	SITE A
6902	WY	-448144	2475496	110 69	44 93	-1	-1	2200	2300	1653	1970	-1	AGSP/FEID	MULT	50	SITE B
6903	WY	-433672	2474709	110.51	44 93	-1	-1	2200	2300	1505	1970	-1	AGSP/FEID	MULT	50	SITE C
6904	WY	-432646	2482089	110.50	45 00	-1	-1	2200	2300	1626	1970	-1	AGSP/FEID	MULT	50	SITE D
6905	WY	-422773	2470416	110.37	44 90	-1	-1	2200	2300	1564	1970	-1	AGSP/FEID	MULT	50	SITE E
6906	WY	-411581	2470150	110 23	44 90	-1	-1	2200	2300	1485	1970	-1	AGSP/FEID	MULT	50	SITE F
6907	WY	-425565	2466844	110 40	44.87	-1	-1	2200	2300	1716	1970	-1	AGSP/FEID	MULT	50	SITE G
6908	WY	-448144	2475496	110 69	44 93	-1	-1	2200	2300	1776	1970	0	AGSP/FEID	MULT	50	SITE B1
6909	WY	-442346	2473320	110 62	44 92	-1	-1	2200	2300	1603	1970	0	AGSP/FEID	MULT	50	SITE C1
6910	WY	-433672	2474709	110 51	44 93	-1	-1	2200	2300	1693	1970	0	AGSP/FEID	MULT	50	SITE C2
6911	WY	-433042	2474675	110 50	44 93	-1	-1	2200	2300	1706	1970	0	AGSP/FEID	MULT	50	SITE C3
6912	WY	-440957	2485790	110 61	45.03	-1	-1	2200	2300	1646	1970	0	AGSP/FEID	MULT	50	SITE D1
6913	WY	-425565	2466844	110.40	44 87	-1	-1	2200	2300	1773	1970	0	AGSP/FEID	MULT	50	SITE G1
7001	CA	-1512256	1801941	122.58	37 90	NE	2	61	402	1436	1850	0	SESE	SESE	6	SITE 1 - STUMPS 1-20
7002	CA	-1512256	1801941	122.58	37 90	NE	2	61	402	1612	1850	0	SESE	SESE	6	SITE 2- STUMPS 1-22
7101	CA	-1165351	1590112	118 28	36 50	NW	1	3330	3330	1729	1991	0	PICO	PICO	8	LB1
7102	CA	-1165351	1590112	118 28	36.50	WNW	1	3340	3340	1578	1991	0	PICO	PICO	8	LB2
7103	CA	-1165351	1590112	118 28	36.50	WNW	1	3350	3350	1729	1991	0	PIBL	PIBL	8	FB1
7104	CA	-1165351	1590112	118 28	36 50	SW	2	3330	3330	1737	1991	0	PIBL	PIBL	8	FB2
7105	CA	-1165351	1590112	118.28	36.50	WNW	2	3345	3345	1729	1991	0	PIBL/PICO	PIBL/PICO	8	MB1
7106	CA	-1165351	1590112	118 28	36 50	S	1	3355	3355	1826	1991	0	PIBL/PICO	PIBL/PICO	8	MB2
7201	CA	-1143961	2156149	118.91	41.50	M	-1	1850	1850	1597	1939	6	CADE/PILA	CADE/PILA	5	BEARSKIN CREEK PLOT 1
7202	CA	-1143961	2156149	118 91	41 50	-1	-1	1850	1850	1654	1939	16	PILA/ABCO/CADE	MULT	5	BEARSKIN CREEK PLOT 2
7203	CA	-1143961	2156149	118 91	41 50	-1	-1	1850	1850	1700	1939	3	PILA/ABCO/CADE	MULT	5	BEARSKIN CREEK PLOT 3
7204	CA	-1143961	2156149	118 91	41 50	SW	-1	1850	1850	1700	1939	-1	CADE/ABCO	SEGI	5	REDWOOD CREEK-W
7205	CA	-1143961	2156149	118 91	41 50	SE	-1	1850	1850	1700	1939	-1	ABCO	SEGI	5	REDWOOD CREEK - E
7206	CA	-1143961	2156149	118 91	41 50	M	-1	1850	1850	1700	1939	1030	ABCO	SEGI	5	REDWOOD CREEK - ENTIRE AREA
7207	CA	-1143961	2156149	118 91	41 50	M	-1	1850	1850	1700	1939	770	ABCO/CADE	MULT	5	BEARSKIN CREEK - ENTIRE AREA
7208	CA	-1143961	2156149	118 91	41 50	M	-1	1850	1850	1700	1939	1800	ABCO/CADE	MULT	5	ENTIRE AREA
7301	MN	791716	2778894	94 58	47 42	M	-1	1280	1375	1808	1931	486	ACSA/TIAM	MULT	99	STAR ISLAND

Ref/ Site #	State	Albers-E	Albers-N	Lat.	Long	Aspect	Slope	Elev Low	Elev High	Year Start	Year End	Area (ha)	Plant Association	Community dominant	Küchler Class	Site name
7401	CO	-47265	1990521	105 57	40 71	M	5	2500	2800	1708	1973	50	PIPO	PIPO	16	ENTIRE AREA
7402	CO	-47265	1990521	105 57	40 71	S	-1	2500	2800	1708	1973	-1	PIPO	PIPO	16	SOUTH ASPECTS
7403	CO	-47265	1990521	105 57	40.71	N	-1	2500	2800	1708	1973	-1	PIPO	PIPO	16	NORTH ASPECTS
7404	CO	-47265	1990521	105 57	40 71	-1	-1	2500	2600	1708	1973	-1	PIPO	PIPO	16	LOWER THIRD
7405	CO	-47265	1990521	105 57	40.71	-1	-1	2600	2700	1708	1973	-1	PIPO	PIPO	16	MIDDLE THIRD
7406	CO	-47265	1990521	105 57	40 71	-1	-1	2700	2800	1708	1973	-1	PIPO	PIPO	16	UPPER THIRD
7501	UT	-695841	1627639	112 99	37.26	-1	2	2195	2195	1501	1980	146	PIPO/QUGM	PIPO	19	CHURCH MESA
7502	UT	-695380	1642554	113 00	37.39	NNE	2	2225	2225	1501	1980	1	ABCO/PSME	PIPO	20	HORSE PASTURE CLUSTER 2
7503	UT	-695625	1640528	113 00	37.37	SE	1	2240	2240	1501	1980	1	PIPO/QUGM	PIPO	19	HORSE PASTURE CLUSTER 8
7504	UT	-696347	1639104	113.01	37.36	WSW	2	2208	2208	1501	1980	1	PIPO/QUGM	PIPO	19	HORSE PASTURE CLUSTER 10
7505	UT	-697145	1638947	113 02	37.36	W	1	2243	2243	1501	1980	1	PIPO/QUGM	PIPO	19	HORSE PASTURE CLUSTER 11
7506	UT	-695493	1639983	113 00	37.37	S	2	2065	2065	1501	1980	1	PIPO/QUGM	PIPO	19	HORSE PASTURE CLUSTER 12
7507	UT	-695505	1639826	113 00	37.37	SE	2	2018	2018	1501	1980	1	PIPO/QUGM	PIPO	19	HORSE PASTURE CLUSTER 13
7508	UT	-695916	1637906	113 00	37.35	NNE	2	2210	2210	1501	1980	1	PIPO/QUGM	PIPO	19	HORSE PASTURE CLUSTER 15
7509	UT	-694383	1637410	112.98	37.35	NE	2	2051	2051	1501	1980	1	PIPO/QUGM	PIPO	19	HORSE PASTURE CLUSTER 16
7510	UT	-694305	1636176	112.98	37 34	NNE	1	2021	2021	1501	1980	1	PIPO/QUGM	PIPO	19	HORSE PASTURE CLUSTER 17
7511	UT	-694467	1635213	112 98	37.33	F	1	2432	2432	1501	1980	1	PIPO/QUGM	PIPO	19	HORSE PASTURE CLUSTER 20
7512	UT	-694166	1632325	112.98	37.30	SE	2	2140	2140	1501	1980	1	PIPO/QUGM	QUGM	19	HORSE PASTURE CLUSTER 22
7513	UT	-693936	1630797	112 97	37.29	NNE	1	2134	2134	1501	1980	1	PIPO/QUGM	PIPO	19	HORSE PASTURE CLUSTER 23
7514	UT	-693861	1630634	112.97	37.29	N	1	2155	2155	1501	1980	1	PIPO/QUGM	PIPO	19	HORSE PASTURE CLUSTER 24
7601	ID	-898282	2539272	116.46	45 17	S	3	2073	2073	1814	1987	-1	ABLA/CARU	PSME	15	1
7602	ID	-898947	2539689	116 47	45.17	N	2	1915	1915	1889	1987	-1	ABLA/VAGL	LAOC	15	2
7603	ID	-899476	2539903	116 48	45.17	SW	3	1964	1964	1752	1987	-1	ABLA/CARU	LAOC	15	3
7604	ID	-899567	2540504	116 48	45.18	N	4	1661	1661	1752	1987	-1	ABGR/VAGL	LAOC	14	4
7605	ID	-899603	2540882	116 48	45.18	NW	2	1530	1530	1752	1987	-1	ABGR/VAGL	LAOC	14	5
7606	ID	-897721	2540049	116 46	45 18	NE	2	2109	2109	1814	1987	-1	ABLA/VAGL	PICO	15	6
7607	ID	-896957	2540524	116 45	45 18	E	3	2076	2076	1913	1987	-1	ABLA/VAGL	PICO	15	7
7608	ID	-896940	2540677	116.45	45.18	NE	3	2064	2064	1913	1987	-1	ABLA/VAGL	PICO	15	8
7609	ID	-896631	2541327	116.45	45.19	N	3	2036	2036	1913	1987	-1	ABLA/VAGL	PICO	15	9
7610	ID	-893702	2543520	116.41	45 21	NW	2	2109	2109	1714	1987	-1	ABLA/CAGE	PICO	15	10
7611	ID	-895451	2543404	116.43	45 21	S	3	1818	1818	1817	1987	-1	PSME/AGSP	PICO	14	11
7612	ID	-895980	2543618	116 44	45 21	N	3	1721	1721	1817	1987	-1	ABGR/VAGL	ABGR	14	12
7613	ID	-896147	2543543	116 44	45 21	S	2	1721	1721	1817	1987	-1	ABGR/SPBE	PIPO	14	13
7614	ID	-896285	2543714	116.44	45.21	S	2	1770	1770	1817	1987	-1	ABGR/SPBE	PIPO	14	14
7615	ID	-892069	2545422	116.39	45 23	SW	2	2109	2109	1817	1987	-1	ABLA/CAGE	PICO	15	15
7616	ID	-892232	2545377	116 40	45 23	SW	2	2085	2085	1817	1987	-1	ABLA/CAGE	PICO	15	16
7617	ID	-893242	2546236	116 41	45.24	SW	4	1733	1733	1785	1987	-1	ABGR/VAGL	LAOC	14	17
7618	ID	-893875	2546213	116 42	45.23	NW	3	1879	1879	1857	1987	-1	ABGR/VAGL	LAOC	14	18
7619	ID	-893960	2546160	116 42	45.23	NW	2	1721	1721	1814	1987	-1	ABGR/VAGL	LAOC	14	19
7620	ID	-894337	2546327	116 42	45.24	NE	2	1606	1606	1814	1987	-1	PSME/PHMA	PIPO	14	20
7621	ID	-895391	2546786	116 44	45.24	S	2	1503	1503	1752	1987	-1	PSME/PHMA	PIPO	14	21
7622	ID	-895466	2546110	116.44	45 23	N	3	1321	1321	1913	1987	-1	ABGR/COOC	LAOC	14	22
7623	ID	-895910	2545663	116 44	45 23	SW	2	1267	1267	1752	1987	-1	ABGR/SPBE	PIPO	14	23
7624	ID	-895600	2543482	116.44	45 21	S	5	1503	2073	1752	1987	-1	MULT	MULT	14	5 SOUTH EXPOSURE STANDS
7625	ID	-895597	2543513	116 44	45 21	M	5	1321	2109	1752	1987	-1	MULT	MULT	14	18 NORTH EXPOSURE STANDS
7701	CA	-1080456	1318738	116 97	34 21	M	5	1500	2700	-1	1974	-1	PIPO	PIPO	5	SAN BERNARDINO MTS-LOW ELEV
7702	CA	-1080456	1318738	116 97	34 21	M	5	2700	3500	-1	1974	-1	PIPO	PIJE	5	SAN BERNARDINO MTS - HIGH ELEV

Ref/ Site #	State	Albers- E	Albers-N	Lat	Long	Aspect	Slope	--- Elev --- Low	High	--- Year --- Start	End	Area (ha)	Plant Association	Community dominant	Küchler Class	Site name
7801	CA	-1080456	1318738	116 97	34 21	M	5	1500	2700	1797	1965	-1	PIPO	PIPO	5	SAN BERNARDINO MTS-LOW ELEV
7802	CA	-1080456	1318738	116 97	34 21	M	5	2700	3500	1797	1965	-1	PIPO	PIJE	5	SAN BERNARDINO MTS - HIGH ELEV
7901	CA	-1377534	1938149	121 29	39 28	-1	1	500	500	1681	1982	5	QUDO	QUDO	30	KOCH
8001	MT	-714550	2641493	114 25	46 25	M	5	1260	1400	1680	1980	-1	ABGR/PIEN/ABLA	MULT	15	BITTERROOT CANYONS
8101	MT	-673093	2715853	113 80	46 95	NE	2	2061	2061	1500	1981	-1	ABLA	PIAL	15	1
8102	MT	-672938	2715871	113 80	46 95	E	3	2000	2000	1834	1981	-1	ABLA	PIAL/PICO	15	2
8103	MT	-672701	2715943	113 79	46 95	SW	1	1988	1988	1541	1981	-1	ABLA	PIAL	15	3
8104	MT	-672627	2715906	113.79	46 95	SSE	2	1976	1976	1834	1981	-1	ABLA	PIAL	15	4
8105	MT	-672635	2715814	113 79	46 95	E	2	1927	1927	1834	1981	-1	ABLA	PICO	15	5
8106	MT	-672556	2715838	113 79	46 95	SW	2	1909	1909	1757	1981	-1	ABLA	PIAL	15	6
8107	MT	-672554	2715869	113 79	46 95	SSW	2	1939	1939	1757	1981	-1	ABLA	PIAL	15	7
8108	MT	-672556	2715838	113.79	46 95	SE	2	1906	1906	1772	1981	-1	ABLA	PSME	15	8
8109	MT	-672472	2715924	113.79	46.95	SE	3	1939	1939	1757	1981	-1	ABLA	PSME	15	9
8110	MT	-671961	2715603	113 78	46 95	E	2	1758	1758	1500	1981	-1	ABLA	LAOC	15	10
8201	CO	-49935	1917955	105.59	40.07	S	2	3231	3353	1362	1962	54	ABLA/PIEN	ABLA	15	LONG LAKE
8301	TX	164104	698235	103 29	29 25	-1	-1	2075	2075	1780	1940	-1	CUAR/ACGR	MULT	31	BOOT SPRINGS
8302	TX	164104	698235	103.29	29.25	-1	-1	2075	2075	-1	1940	-1	CUAR/ACGR	CUAR/POIN	31	EMORY PEAK
8303	TX	164104	698235	103 29	29 25	-1	-1	2033	2033	1780	1940	-1	CUAR/ACGR	CUAR/ACGR	31	BOOT ROCK
8304	TX	164104	698235	103.29	29.25	-1	-1	2075	2075	-1	1940	-1	CUAR/ACGR	MULT	31	CORRAL
8305	TX	164104	698235	103.29	29 25	-1	-1	2075	2075	1733	1940	-1	CUAR/ACGR	PICE/MUEM	31	SOUTH RIM
8306	TX	164104	698235	103.29	29.25	-1	-1	2075	2075	1733	1940	-1	CUAR/ACGR	PICE/MUEM	31	EAST RIM
8307	TX	164104	698235	103 29	29 25	-1	-1	2075	2075	1900	1940	-1	CUAR/ACGR	PICE/MUEM	31	LOST MINE TRAIL
8308	TX	164104	698235	103 29	29 25	-1	-1	2075	2075	1773	1940	-1	CUAR/ACGR	PICE/MUEM	31	ENTIRE AREA
8401	WY	-357137	2457968	109 53	44 82	-1	5	2300	2800	1595	1988	750	ABLA	PIAL/ABLA	15	RUSSELL PEAK
8501	WY	-459240	2358795	110 75	43 88	-1	-1	-1	-1	1765	1890	-1	PSME	PICO/PSME	15	TIMBERED ISLAND
8502	WY	-459240	2358795	110.75	43 88	-1	-1	-1	-1	1865	1890	-1	PSME	PICO/PSME	15	OXBOW
8503	WY	-459240	2358795	110 75	43.88	-1	-1	-1	-1	1879	1890	-1	PSME	PICO/PSME	15	JACKSON LAKE MORRAINE
8504	WY	-459240	2358795	110 75	43 88	-1	-1	-1	-1	1890	1890	-1	PSME	PICO/PSME	15	BURNT RIDGE
8601	CA	-1197257	1587783	118 64	36 44	N	3	2680	2680	1700	1979	1	ABMA/PIMO	ABMA/PIMO	7	MINERAL KING PLOT 1
8602	CA	-1197332	1587887	118.64	36 44	N	3	2480	2480	1700	1979	0	ABMA/PIMO	MULT	7	MINERAL KING PLOT 2
8603	CA	-1196027	1587681	118 63	36 44	N	2	2660	2660	1700	1979	0	ABMA/PIMO	ABMA/PIMO	7	MINERAL KING PLOT 3
8604	CA	-1196550	1587751	118.63	36 44	N	-1	2480	2680	1700	1979	30	ABMA/PIMO	ABMA/PIMO	7	MINERAL KING ENTIRE AREA
8701	CA	-1263931	1719461	119 60	37 52	-1	-1	1950	1950	450	1880	-1	ABCO	SEGI	5	MARIPOSA GROVE
8801	ID	-842602	2686549	115 96	46 54	-1	-1	-1	-1	1782	1935	8	ABGR	PIMO	14	OROFINO PLOT
8901	CA	-1565164	2021006	123.64	39 73	M	5	579	640	1819	1950	19	SESE	SESE	6	BARNWELL CREEK
9001	TX	14689	1000061	104 84	31 94	M	5	2210	2644	1859	1909	-1	PIPO/PIFL	PIPO	19	ENTIRE AREA
9101	WY	-469384	2427270	110 93	44 49	M	-1	2300	2500	1630	1932	2540	ABLA/PIEN	PICO	15	PICO NORTHEAST
9102	WY	-472471	2423320	110 96	44 45	M	-1	2450	2650	1630	1949	3610	ABLA/PIEN	ABLA	15	ABLA-SOUTHWEST
9103	WY	-470436	2425561	110.94	44 47	M	-1	2300	2650	1630	1949	7320	ABLA/PIEN	PICO	15	ENTIRE AREA
9201	CO	-50077	1951284	105 60	40 37	-1	-1	2597	2597	1617	1940	-1	PSME	PIPO	18	TUXEDO PARK
9202	CO	-50077	1951284	105 60	40 37	-1	-1	2597	2597	1492	1940	-1	PSME	PIPO	18	EAGLE PEAK
9203	CO	-50077	1951284	105.60	40 37	-1	-1	2597	2597	1740	1940	-1	PSME	PIPO	18	BEAVER MEADOWS
9204	CO	-50077	1951284	105.60	40 37	-1	-1	2597	2597	1734	1940	-1	PSME	PIPO	18	BIGHORN RS- HORSESHOE PARK
9205	CO	-50077	1951284	105 60	40 37	-1	-1	2597	2597	1523	1940	-1	PSME	PIPO	18	S LAT MORAINE-HOLLOWELL PK
9206	CO	-50077	1951284	105 60	40 37	-1	-1	2597	2597	1621	1940	-1	PSME	PIPO	18	LILLY MT
9207	CO	-50077	1951284	105 60	40 37	-1	-1	2597	2597	1561	1940	-1	PSME	PIPO	18	LUMPY RIDGE
9208	CO	-50077	1951284	105 60	40 37	-1	-1	2597	2597	1746	1940	-1	PSME	PIPO	18	THOMPSON PARK

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9209	CO	-50077	1951284	105 60	40 37	-1	-1	2597	2597	1750	1940	-1	PSME	PIPO	18	DEER MT
9210	CO	-50077	1951284	105 60	40 37	-1	-1	2597	2597	1658	1940	-1	PSME	PIPO	18	DEER RIDGE
9301	NM	-351888	1444436	108 97	35 82	M	1	2700	2700	1392	1986	6500	PIPO	PIPO	19	ENTIRE AREA
9401	MN	956722	2717773	92 52	46 71	F	1	384	384	1620	1890	-1	ACSA	PIRE	99	CLOQUET FOR EXP STN
9501	CA	-1065770	1274398	116 75	33 83	-1	-1	2500	3324	1652	1955	1100	ABCO	PIPO	5	ENTIRE AREA
9601	MT	-694344	2921704	114 32	48 80	M	5	1067	1280	1706	1973	7130	ABLA/PSME	ABLA	15	ENTIRE AREA
9602	MT	-694344	2921704	114 32	48 80	M	5	1067	1280	1706	1973	-1	PSME	PSME	12	STAND 1
9603	MT	-694344	2921704	114 32	48 80	M	5	1067	1280	1706	1973	-1	PSME	PSME	12	STAND 2
9604	MT	-694344	2921704	114 32	48 80	M	5	1067	1280	1706	1973	-1	PSME	PSME	12	STAND 3
9701	CO	-48868	1942986	105 58	40 29	M	5	3048	4267	1703	1968	9238	ABLA/PIEN	PICO	15	LONGS PEAK STUDY AREA
9801	MT	-673226	2877066	113 98	48 41	SW	-1	1050	1050	1735	1944	-1	ABLA	ABLA	15	A
9802	MT	-673226	2877066	113 98	48 41	WSW	-1	1000	1000	1735	1946	-1	ABLA	ABLA	15	B
9803	MT	-673226	2877066	113 98	48 41	SW	-1	1425	1425	1735	1976	-1	ABLA	ABLA	15	C1
9804	MT	-673226	2877066	113 98	48.41	M	-1	1275	1275	1735	1955	-1	ABLA	ABLA	15	C2
9805	MT	-673226	2877066	113 98	48 41	SW	-1	1500	1500	1735	-1	-1	ABLA	ABLA	15	C3
9806	MT	-673226	2877066	113 98	48.41	S	-1	1275	1275	1735	1976	-1	ABLA	ABLA	15	D1
9807	MT	-673226	2877066	113.98	48 41	NE	-1	1200	1200	1735	1976	-1	PSME/PHMA	PSME	12	D2
9808	MT	-673226	2877066	113 98	48 41	M	-1	1125	1125	1735	1945	-1	PSME/PHMA	PSME	12	D3
9809	MT	-673226	2877066	113.98	48.41	M	-1	1125	1275	1735	1944	-1	PSME/PHMA	PSME	12	E
9810	MT	-673226	2877066	113 98	48 41	M	-1	1125	1350	1710	1976	-1	ABLA	ABLA	15	F
9811	MT	-673226	2877066	113 98	48.41	ENE	-1	1125	1200	1735	1945	-1	ABLA	ABLA	15	G
9812	MT	-673226	2877066	113.98	48.41	M	-1	1125	1350	1735	1974	-1	ABLA	ABLA	15	H
9813	MT	-673226	2877066	113 98	48 41	SE	-1	1425	1425	1718	1976	-1	ABLA	ABLA	15	I1
9814	MT	-673226	2877066	113 98	48 41	M	-1	1350	1500	1735	1974	-1	ABLA	ABLA	15	I2
9815	MT	-673226	2877066	113 98	48 41	M	-1	1425	1500	1735	1976	-1	ABLA	ABLA	15	J
9816	MT	-673226	2877066	113.98	48 41	ENE	-1	1725	1725	1735	1976	-1	ABLA/XETE	ABLA	15	K
9817	MT	-673226	2877066	113 98	48 41	M	-1	1575	1650	1735	1976	-1	ABLA	ABLA	15	L1
9818	MT	-673226	2877066	113 98	48.41	M	-1	1650	1650	1735	1970	-1	ABLA	ABLA	15	L2
9819	MT	-673226	2877066	113 98	48 41	NE	-1	1800	1875	1735	1976	-1	ABLA/XETE	ABLA	15	M1
9820	MT	-673226	2877066	113 98	48 41	-1	-1	1875	1875	1735	1976	-1	ABLA/XETE	ABLA	15	M2
9821	MT	-673226	2877066	113 98	48 41	NE	-1	1725	1725	1735	1976	-1	ABLA/XETE	ABLA	15	M3
9822	MT	-673226	2877066	113 98	48 41	-1	-1	-1	-1	1735	1962	-1	ABLA	ABLA	15	N
9823	MT	-673226	2877066	113.98	48 41	-1	-1	-1	-1	1735	1968	-1	ABLA	ABLA	15	O
9824	MT	-673226	2877066	113.98	48.41	-1	-1	-1	-1	1735	1965	-1	ABLA	ABLA	15	P
9825	MT	-673226	2877066	113.98	48 41	-1	-1	-1	-1	1735	1968	-1	ABLA	ABLA	15	Q
9826	MT	-673226	2877066	113.98	48 41	-1	-1	-1	-1	1735	1965	-1	ABLA	ABLA	15	R
9827	MT	-673226	2877066	113 98	48 41	-1	-1	-1	-1	1735	1960	-1	ABLA	ABLA	15	S
9828	MT	-673226	2877066	113 98	48 41	-1	-1	-1	-1	1735	1952	-1	ABLA/LIBO	ABLA	15	T
9901	MN	744899	2749229	95 23	47 19	-1	-1	457	457	1714	1951	-1	ACSA	PIBA	95	SECTION 16
10001	ID	-869458	2389832	115 90	43 86	-1	-1	1402	1402	1685	1892	-1	PSME	PSME	11	SAMPLE SITE 1
10002	ID	-871895	2382785	115.92	43.80	-1	-1	1774	1774	1764	1892	-1	PSME	PSME	11	SAMPLE SITE 2
10003	ID	-866985	2390412	115 87	43.87	-1	-1	1524	1524	1832	1892	-1	PSME	PSME	11	SAMPLE SITE 3
10004	ID	-865789	2390317	115 85	43.87	-1	-1	1516	1516	1643	1932	-1	PSME	PSME	11	SAMPLE SITE 4
10005	ID	-871168	2384331	115 91	43.81	-1	-1	1715	1715	1783	1932	-1	PSME	PSME	11	SAMPLE SITE 5
10006	ID	-866176	2389702	115 86	43 87	-1	-1	1478	1478	1737	1932	-1	PSME	PSME	11	SAMPLE SITE 6
10007	ID	-871032	2384098	115 91	43 81	-1	-1	1707	1707	1602	1895	-1	PSME	PSME	11	SAMPLE SITE 7
10101	UT	-625477	1661862	112 21	37 61	-1	-1	2469	2469	1636	1980	-1	PIPO	PIPO	10	WHITMAN SPRING

Ref/ Site #	State	Albers-E	Albers-N	Lat.	Long	Aspect	Slope	— Elev — Low	High	--- Year --- Start	End	Area (ha)	Plant Association	Community dominant	Kuchler Class	Site name
10102	UT	-451011	1650552	110 20	37 60	-1	-1	-1	-1	1599	1980	-1	PIPO	PIPO	10	SEILER MILL
10103	UT	-678535	1646074	112 81	37 43	-1	-1	2134	2134	1519	1968	-1	PIPO	PIPO	10	STRAIGHT CANYON
10201	CA	-1205467	1602055	118.75	36 56	NW	1	2104	2104	1518	1863	2	ABCO	SEGI	5	CATTEL CABIN
10301	CA	-1591956	2088428	124 10	40 27	S	-1	-1	-1	1726	1940	368	SESE	SESE	6	HARPER CREEK
10302	CA	-1591956	2088428	124 10	40 27	S	-1	-1	-1	1726	1940	337	SESE	SESE	6	CALF CREEK
10303	CA	-1591956	2088428	124 10	40 27	SE	-1	-1	-1	1726	1940	397	SESE	SESE	6	WEST COW CREEK
10304	CA	-1591956	2088428	124 10	40 27	M	-1	-1	-1	1726	1940	433	SESE	SESE	6	EAST COW CREEK
10305	CA	-1591956	2088428	124.10	40 27	NE	-1	-1	-1	1726	1940	286	SESE	SESE	6	TEPEE CREEK
10306	CA	-1591956	2088428	124.10	40 27	N	-1	-1	-1	1726	1940	190	SESE	SESE	6	CONNICK CREEK
10307	CA	-1591956	2088428	124 10	40 27	N	-1	-1	-1	1726	1940	223	SESE	SESE	6	MILLER CREEK
10308	CA	-1591956	2088428	124.10	40.27	NW	-1	-1	-1	1726	1940	261	SESE	SESE	6	LOWER E SQUAW CREEK
10309	CA	-1591956	2088428	124 10	40 27	M	-1	-1	-1	1726	1940	410	SESE	SESE	6	UPPER E SQUAW CREEK
10310	CA	-1591956	2088428	124.10	40 27	M	-1	-1	-1	1726	1940	257	SESE	SESE	6	LOWER W SQUAW CREEK
10311	CA	-1591956	2088428	124 10	40 27	M	-1	-1	-1	1726	1940	348	SESE	SESE	6	UPPER W SQUAW CREEK
10312	CA	-1591956	2088428	124.10	40.27	M	-1	-1	-1	1330	1940	3510	SESE	SESE	6	ENTIRE AREA
10401	NM	-315968	1152067	108 45	33 24	M	5	2354	2354	1616	1980	41	PIPO	PIPO	19	MCKENNA PARK
10402	NM	-321539	1155237	108 51	33 27	M	1	2438	2438	1570	1980	47	PIPO	PIPO	19	LANGSTROTH MESA
10403	NM	-324497	1173039	108 55	33.43	S	1	2500	2500	1640	1980	41	PIPO	PIPO	19	GILITA RIDGE
10501	CA	-1264211	1719343	119.60	37 52	M	-1	1829	2076	553	1980	259	ABAM	SEGI	5	MARIPOSA GROVE
10601	AZ	-399784	1014541	109 30	32.00	M	5	2073	2103	1604	1924	65	PSME	PIPO	19	UPPER CANYON
10602	AZ	-400593	1015202	109 31	32 00	M	5	1859	1981	1606	1924	32	PSME	PIPO	19	MIDDLE CANYON
10603	AZ	-402896	1015706	109 34	32 01	M	5	1646	1859	1632	1924	8	PSME	PIPO	19	LOWER CANYON
10604	AZ	-400593	1015202	109.31	32 00	M	5	1646	2103	1604	1924	356	PSME	PIPO	19	WHOLE CANYON
10701	CA	-1444452	1591357	121 42	36.16	N	-1	1788	1788	1743	1977	0	PILA/PICU/QUCH	MULT	34	JUNIPERO SERRA PEAK PLOT 3
10702	CA	-1444452	1591357	121.42	36 16	N	-1	1788	1788	1688	1977	0	PILA/PICU/QUCH	MULT	34	JUNIPERO SERRA PEAK PLOT 5
10703	CA	-1444452	1591357	121 42	36 16	N	-1	1788	1788	1640	1977	0	PILA/PICU/QUCH	MULT	34	JUNIPERO SERRA PEAK PLOT 6
10704	CA	-1444452	1591357	121 42	36.16	N	-1	1788	1788	1795	1977	0	PILA/PICU/QUCH	MULT	34	JUNIPERO SERRA PEAK PLOT 8
10705	CA	-1444452	1591357	121 42	36.16	N	-1	1788	1788	1671	1977	0	PILA/PICU/QUCH	MULT	34	JUNIPERO SERRA PEAK PLOT 10
10706	CA	-1444452	1591357	121 42	36.16	N	-1	1788	1788	1812	1977	0	PILA/PICU/QUCH	MULT	34	JUNIPERO SERRA PEAK PLOT 12
10707	CA	-1444452	1591357	121 42	36 16	N	-1	1788	1788	1640	1977	0	PILA/PICU/QUCH	MULT	34	ENTIRE AREA
10801	WY	-428563	2435381	110.42	44 58	-1	-1	2438	2500	1665	1966	-1	ABLA	PICO	15	ENTIRE AREA
10901	CA	-1342972	2064061	121 12	40 43	W	1	1963	1963	1740	1985	3	ABMA	ABMA	34	PLOT 1
10902	CA	-1342972	2064061	121 12	40 43	E	1	1954	1954	1797	1985	3	ABMA	ABMA	34	PLOT 2
10903	CA	-1342972	2064061	121.12	40.43	M	-1	1958	1958	1740	1985	400	ABMA	ABMA	34	ENTIRE AREA
11001	CA	-1342972	2064061	121.12	40 43	NNW	1	1970	1970	1740	1990	1	ABCO	ABMA	7	PLOT 1
11002	CA	-1342972	2064061	121 12	40.43	E	1	1910	1910	1668	1990	0	ABCO	ABMA	7	PLOT 2
11101	CA	-1560673	2254825	124.10	41.78	W	-1	76	107	1880	1880	1	SESE	SESE	6	MILL CREEK
11201	CA	-1561125	2226457	124 04	41.53	F	-1	76	76	972	1972	1	SESE	SESE	6	PLOT 1
11202	CA	-1561125	2226457	124 04	41.53	N	-1	46	46	973	1973	1	SESE	SESE	6	PLOT 2
11203	CA	-1561125	2226457	124.04	41.53	SW	-1	152	152	971	1971	1	SESE	SESE	6	PLOT 3
11204	CA	-1561125	2226457	124 04	41.53	WSW	-1	31	30	972	1972	1	SESE	SESE	6	PLOT 4
11205	CA	-1561125	2226457	124 04	41 53	SSW	-1	61	61	974	1974	1	SESE	SESE	6	PLOT 7
11206	CA	-1561125	2226457	124 04	41 53	WNW	-1	61	61	974	1974	1	SESE	SESE	6	PLOT 8
11207	CA	-1561125	2226457	124 04	41 53	SW	-1	31	30	977	1977	1	SESE	SESE	6	PLOT 9
11208	CA	-1561125	2226457	124.04	41 53	W	-1	76	76	976	1976	1	SESE	SESE	6	PLOT 12
11209	CA	-1561125	2226457	124 04	41 53	S	-1	152	152	977	1977	1	SESE	SESE	6	PLOT 13
11301	CA	-1194916	1627275	118 67	36 79	M	5	1370	1400	1775	1909	160	PIPO/PIJE	PIPO	5	CEDAR GROVE

Ref/ Site #	State	Albers-E	Albers-N	Lat	Long	Aspect	Slope	--- Elev --- Low	High	--- Year -- Start	End	Area (ha)	Plant Association	Community dominant	Küchler Class	Site name
11401	AZ	-462027	1260147	110 10	34 14	SSE	1	1850	1850	1790	1949	0	PIPO	PIPO	19	FORESTDALE
11402	AZ	-432126	1214644	109 75	33 75	SW	1	2402	2402	1838	1950	0	PSME	PIPO	18	HEAD OF CORN CREEK
11403	AZ	-421633	1211026	109 63	33 73	-1	-1	2499	2499	1837	1950	0	PSME	PIPO	18	ODART BUTTE
11404	AZ	-416706	1076143	109 52	32 54	-1	-1	2225	2225	1830	1950	0	PSME	PIPO	18	MCDONALD RIDGE
11405	AZ	-630771	1561309	112 20	36 72	N	-1	2353	2353	1629	1950	0	PSME	PIPO	18	JACOBS LAKE
11501	CA	-1509207	2181505	123 32	41 22	N	3	900	900	1740	1987	-1	PSME	MULT	5	SITE 1
11502	CA	-1510517	2179836	123 33	41 20	N	3	980	980	1740	1987	-1	PSME	MULT	5	SITE 2
11503	CA	-1512389	2181125	123.36	41 21	N	3	975	975	1740	1987	-1	PSME	MULT	5	SITE 3
11504	CA	-1510020	2182603	123 33	41 23	N	3	952	952	1740	1987	-1	PSME	MULT	5	ENTIRE AREA
11601	CA	-1317092	2139276	120 95	41 13	-1	-1	1350	1430	1645	1855	250	JUOC	JUOC	23	JUNIPER HILL

APPENDIX D: LISTING OF THE REGIME FILE (FHREGIME.DB)

(-1 indicates no data)

Site #	Year Start	Year End	Regime (severity)	Regime (char)	Fire freq (yrs)	Frequency computation	Fire evidence	Cross-dated?	# of Trees	# of Fires
101	1730	1800	MOD	3	113	NFR	ORIGIN	NO	9	2
201	1520	1900	HIGH	5	1042	NFR	ORIGIN	NO	-1	9
301	1763	1904	LOW	2	9	P	SCAR	NO	1	11
401	1650	1930	MOD	3	37	NFR	BOTH	NO	-1	-1
402	1650	1930	MOD	3	43	NFR	BOTH	NO	-1	-1
403	1650	1930	MOD	3	61	NFR	BOTH	NO	-1	-1
404	1650	1930	MOD	3	64	NFR	BOTH	NO	-1	-1
405	1400	1500	MOD	3	100	NFR	BOTH	NO	-1	1
405	1500	1600	MOD	3	-1	NFR	BOTH	NO	-1	0
405	1600	1700	MOD	3	81	NFR	BOTH	NO	-1	2
405	1700	1800	MOD	3	93	NFR	BOTH	NO	-1	3
405	1800	1900	MOD	3	34	NFR	BOTH	NO	-1	7
405	1480	1900	MOD	3	67	NFR	BOTH	NO	-1	13
406	1760	1900	MOD	2	16	CFI(2)	BOTH	NO	13	8
501	1573	1985	MOD	3	182	NFR	BOTH	NO	-1	5
502	1573	1985	MOD	3	107	NFR	BOTH	NO	-1	9
503	1573	1985	MOD	3	97	NFR	BOTH	NO	-1	4
504	1573	1985	MOD	3	65	NFR	BOTH	NO	-1	14
505	1573	1985	MOD	3	120	NFR	BOTH	NO	-1	5
506	1600	1699	MOD	3	100	NFR	BOTH	NO	-1	1
506	1700	1799	MOD	3	208	NFR	BOTH	NO	-1	3
506	1800	1899	MOD	3	60	NFR	BOTH	NO	-1	16
506	1900	1985	MOD	3	103	NFR	BOTH	NO	-1	8
506	1573	1985	MOD	3	100	NFR	BOTH	NO	-1	29
507	1573	1985	MOD	3	52	MFRI	BOTH	NO	-1	-1
508	1573	1985	MOD	3	76	MFRI	BOTH	NO	-1	-1
509	1573	1985	MOD	3	93	MFRI	BOTH	NO	-1	-1
510	1573	1985	MOD	3	137	MFRI	BOTH	NO	-1	-1
511	1573	1985	HIGH	5	108	MFRI	BOTH	NO	-1	-1
512	1573	1985	HIGH	5	137	MFRI	BOTH	NO	-1	-1
513	1573	1985	HIGH	5	109	MFRI	BOTH	NO	-1	-1
601	1748	1902	LOW	2	6	MFRI	SCAR	NO	18	25
602	1748	1902	LOW	2	9	MFRI	SCAR	NO	20	19
603	1748	1902	LOW	2	9	MFRI	SCAR	NO	10	16
701	1650	1980	MOD	3	96	MFRI	ORIGIN	NO	-1	18
702	1530	1980	MOD	3	111	MFRI	ORIGIN	NO	-1	11
703	1657	1980	MOD	3	118	MFRI	ORIGIN	NO	-1	9
704	1566	1980	MOD	3	94	MFRI	ORIGIN	NO	-1	7
705	1581	1980	MOD	3	104	MFRI	ORIGIN	NO	-1	4
706	1530	1980	MOD	3	144	MFRI	ORIGIN	NO	-1	5
801	1790	1900	LOW	2	9	P	SCAR	NO	1	11
901	1300	1969	HIGH	5	-1	-1	ORIGIN	NO	-1	4
1001	1601	1960	LOW	2	17	P	SCAR	NO	75	-1
1002	1509	1959	LOW	2	14	P	SCAR	NO	123	-1
1003	1540	1941	LOW	2	25	P	SCAR	NO	64	-1
1004	1614	1934	LOW	2	30	P	SCAR	NO	43	-1
1101	1840	1900	HIGH	4	10	CFI0	SCAR	YES	-1	3
1102	1821	1900	HIGH	4	-1	-1	SCAR	YES	-1	2
1103	1821	1900	HIGH	4	-1	-1	SCAR	YES	-1	1
1201	1200	1900	MOD	3	97	NFR	BOTH	NO	404	11
1202	1150	1900	MOD	5	115	NFR	BOTH	NO	577	18
1301	1435	1900	MOD	5	81	MFRI	BOTH	NO	-1	25
1302	1435	1900	MOD	3	63	MFRI	BOTH	NO	-1	26
1401	1560	1900	LOW	2	14	P	SCAR	YES	35	25
1402	1600	1900	LOW	2	26	P	SCAR	YES	48	12
1403	1780	1900	LOW	2	12	P	SCAR	YES	31	11
1501	1750	1900	LOW	2	20	CFI(7)	SCAR	YES	-1	8
1601	1527	1900	MOD	5	-1	-1	BOTH	NO	40	6
1602	1803	1900	MOD	5	-1	-1	BOTH	NO	5	3
1603	1233	1900	MOD	5	-1	-1	BOTH	NO	13	5
1604	1413	1900	MOD	5	-1	-1	BOTH	NO	-1	3
1605	1482	1900	HIGH	6	-1	-1	BOTH	NO	-1	1
1606	1150	1900	HIGH	6	-1	-1	BOTH	NO	-1	1

Site #	Year Start	Year End	Regime (severity)	Regime (char)	Fire freq (yrs)	Frequency computation	Fire evidence	Cross-dated?	# of Trees	# of Fires
1701	1205	1900	HIGH	6	383	NFR	ORIGIN	NO	556	14
1701	1200	1299	HIGH	6	213	NFR	ORIGIN	NO	-1	1
1701	1300	1399	HIGH	6	882	NFR	ORIGIN	NO	-1	1
1701	1400	1499	HIGH	6	386	NFR	ORIGIN	NO	-1	1
1701	1500	1599	HIGH	6	388	NFR	ORIGIN	NO	-1	1
1701	1600	1699	HIGH	6	307	NFR	ORIGIN	NO	-1	2
1701	1700	1799	HIGH	6	1033	NFR	ORIGIN	NO	-1	1
1701	1800	1899	HIGH	6	323	NFR	ORIGIN	NO	-1	6
1702	1205	1978	HIGH	6	435	NFR	ORIGIN	NO	-1	-1
1801	1740	1900	MOD	3	80	CFI(25)	BOTH	NO	17	2
1901	1306	1900	MOD	3	90	CFI(10)	SCAR	YES	6	6
1902	1324	1900	MOD	3	80	CFI(7)	SCAR	YES	20	7
1903	1504	1900	MOD	3	60	CFI(6)	SCAR	YES	8	5
2001	1628	1902	MOD	3	35	CFI(1)	SCAR	NO	11	7
2101	1721	1900	HIGH	4	88	CFI(1)	ORIGIN	NO	9	3
2102	1866	1900	HIGH	4	-1	CFI(1)	ORIGIN	NO	3	1
2103	1566	1900	HIGH	4	-1	CFI(1)	ORIGIN	NO	1	1
2104	1891	1900	HIGH	4	-1	CFI(1)	ORIGIN	NO	4	1
2105	1861	1900	HIGH	4	-1	CFI(1)	ORIGIN	NO	5	1
2106	1860	1900	HIGH	4	30	CFI(1)	ORIGIN	NO	2	2
2107	1860	1900	HIGH	4	20	CFI(1)	ORIGIN	NO	2	2
2108	1864	1900	HIGH	4	17	CFI(1)	ORIGIN	NO	7	3
2109	1859	1900	HIGH	4	12	CFI(1)	ORIGIN	NO	6	2
2110	1858	1900	HIGH	4	-1	CFI(1)	ORIGIN	NO	2	1
2111	1896	1900	HIGH	4	-1	CFI(1)	ORIGIN	NO	7	1
2112	1857	1900	HIGH	4	-1	CFI(1)	ORIGIN	NO	4	1
2113	1889	1900	HIGH	4	-1	CFI(1)	ORIGIN	NO	3	1
2114	1889	1900	HIGH	4	-1	CFI(1)	ORIGIN	NO	4	1
2115	1860	1900	HIGH	4	-1	CFI(1)	ORIGIN	NO	1	1
2116	1891	1900	HIGH	4	-1	CFI(1)	ORGIN	NO	2	1
2117	1881	1900	HIGH	4	-1	CFI(1)	ORIGIN	NO	1	1
2118	1837	1900	HIGH	4	22	CFI(1)	ORIGIN	NO	4	2
2119	1836	1900	HIGH	4	25	CFI(1)	ORIGIN	NO	2	2
2120	1866	1900	HIGH	4	-1	CFI(1)	ORIGIN	NO	1	1
2121	1818	1900	HIGH	4	20	CFI(1)	ORIGIN	NO	2	2
2122	1601	1900	HIGH	4	285	CFI(1)	ORIGIN	NO	2	2
2123	1884	1900	HIGH	4	-1	CFI(1)	ORIGIN	NO	2	1
2124	1738	1900	HIGH	4	144	CFI(1)	ORIGIN	NO	6	2
2125	1847	1900	HIGH	4	42	CFI(1)	ORIGIN	NO	6	2
2201	1800	1902	MOD	3	-1	-1	ORIGIN	NO	80	4
2301	1552	1900	MOD	3	95	P	BOTH	NO	6	5
2302	1504	1900	MOD	3	150	P	BOTH	NO	2	3
2303	1554	1900	MOD	3	66	P	BOTH	NO	1	6
2304	1502	1900	MOD	3	125	P	BOTH	NO	6	5
2305	1701	1900	MOD	3	45	P	BOTH	NO	3	5
2401	1774	1900	LOW	2	8	CFI(30)	SCAR	NO	10	22
2402	1700	1900	LOW	2	-1	-1	SCAR	NO	12	15
2403	1700	1900	LOW	2	-1	-1	SCAR	NO	24	-1
2404	1700	1900	HIGH	5	-1	-1	SCAR	NO	27	0
2405	1700	1900	LOW	2	-1	-1	SCAR	NO	7	-1
2501	1715	1915	LOW	2	8	CFI(18)	SCAR	NO	10	25
2502	1715	1915	LOW	2	9	CFI(18)	SCAR	NO	9	22
2503	1715	1915	LOW	2	11	CFI(27)	SCAR	NO	10	18
2504	1715	1915	LOW	2	7	CFI(45)	SCAR	NO	8	28
2505	1715	1915	MOD	3	100	CFI0	SCAR	NO	2	2
2506	1715	1915	MOD	3	100	CFI0	SCAR	NO	2	2
2507	1715	1915	LOW	2	17	CFI(18)	SCAR	NO	10	12
2508	1715	1915	LOW	2	8	CFI(9)	SCAR	NO	10	26
2509	1715	1915	LOW	2	33	CFI(45)	SCAR	NO	2	6
2510	1715	1915	LOW	1	67	CFI(18)	SCAR	NO	1	3
2601	1565	1900	MOD	3	48	P	SCAR	NO	1	6
2602	1663	1900	LOW	2	15	P	SCAR	NO	1	14
2603	1641	1900	LOW	2	12	P	SCAR	NO	1	18

Site #	Year Start	Year End	Regime (severity)	Regime (char)	Fire freq. (yrs)	Frequency computation	Fire evidence	Cross-dated?	# of Trees	# of Fires
2604	1447	1900	LOW	2	18	P	SCAR	NO	1	15
2701	1518	1900	HIGH	5	490	NFR	ORIGIN	NO	-1	6
2702	1518	1900	HIGH	5	2010	NFR	ORIGIN	NO	-1	7
2703	1518	1900	HIGH	5	450	NFR	ORIGIN	NO	-1	10
2704	1518	1900	HIGH	5	472	NFR	ORIGIN	NO	-1	8
2705	1518	1900	HIGH	5	764	NFR	ORIGIN	NO	-1	4
2801	1754	1903	LOW	2	21	P	SCAR	NO	10	5
2802	1820	1903	MOD	2	17	P	SCAR	NO	17	4
2803	1720	1903	LOW	2	14	P	SCAR	NO	23	5
2804	1818	1903	MOD	2	18	P	SCAR	NO	8	5
2901	1800	1900	LOW	2	13	CFI()	SCAR	YES	90	6
3001	1800	1900	LOW	2	6	CFI(1)	SCAR	NO	7	14
3101	1590	1900	LOW	2	11	MFRI	SCAR	YES	4	13
3102	1600	1900	LOW	2	16	MFRI	SCAR	YES	4	11
3103	1640	1900	LOW	3	49	MFRI	SCAR	YES	3	4
3104	1660	1900	LOW	2	14	MFRI	SCAR	YES	4	7
3105	1570	1900	LOW	3	43	MFRI	SCAR	YES	4	7
3106	1560	1900	LOW	2	10	MFRI	SCAR	YES	4	13
3107	1630	1900	LOW	2	18	MFRI	SCAR	YES	4	4
3108	1590	1900	LOW	2	19	MFRI	SCAR	YES	4	10
3109	1760	1900	LOW	2	16	MFRI	SCAR	YES	4	3
3110	1790	1900	LOW	2	11	MFRI	SCAR	YES	4	11
3111	1650	1900	LOW	2	28	MFRI	SCAR	YES	4	4
3112	1790	1900	LOW	2	31	MFRI	SCAR	YES	3	5
3113	1770	1900	LOW	2	25	MFRI	SCAR	YES	2	5
3114	1730	1900	LOW	2	18	MFRI	SCAR	YES	4	9
3115	1660	1900	LOW	2	9	MFRI	SCAR	YES	4	12
3201	1690	1900	MOD	4	-1	CFI(9)	SCAR	YES	7	3
3202	1870	1900	MOD	4	-1	CFI(2)	SCAR	YES	4	2
3301	1862	1900	LOW	2	17	CFI()	SCAR	NO	6	3
3302	1895	1900	LOW	2	2	CFI()	SCAR	NO	7	4
3303	1890	1900	LOW	2	10	CFI()	SCAR	NO	6	1
3401	1554	1842	LOW	2	-1	CFI(1700)	SCAR	YES	48	61
3501	1440	1904	MOD	3	155	CFI()	BOTH	NO	27	4
3601	1770	1900	MOD	3	-1	CFI(90)	SCAR	NO	2	2
3602	1700	1900	MOD	3	-1	CFI(90)	SCAR	NO	3	2
3603	1860	1900	MOD	3	-1	CFI(90)	BOTH	NO	4	2
3604	1771	1900	MOD	3	-1	CFI(90)	SCAR	NO	1	1
3605	-1	1900	MOD	3	-1	CFI(90)	BOTH	NO	-1	0
3606	-1	1900	MOD	3	-1	CFI(90)	BOTH	NO	-1	0
3607	1750	1900	MOD	3	-1	CFI(90)	BOTH	NO	-1	2
3701	1777	1854	LOW	2	22	CFI()	SCAR	NO	2	5
3702	1726	1890	LOW	1	55	P	SCAR	NO	1	4
3703	1662	1902	LOW	1	34	CFI()	SCAR	NO	2	8
3704	1734	1871	LOW	1	27	CFI()	SCAR	NO	5	6
3705	1566	1856	LOW	1	58	P	SCAR	NO	1	6
3706	1718	1865	LOW	1	49	CFI()	SCAR	NO	2	4
3707	1609	1894	LOW	1	32	CFI()	SCAR	NO	2	10
3708	1554	1795	LOW	1	48	CFI()	SCAR	NO	2	6
3709	1585	1884	LOW	1	60	CFI()	SCAR	NO	3	6
3710	1578	1886	LOW	1	31	CFI()	SCAR	NO	2	11
3711	1694	1862	LOW	1	56	CFI()	SCAR	NO	3	4
3712	1588	1877	LOW	1	74	P	SCAR	NO	1	5
3801	1668	1910	MOD -	1	18	CFI()	BOTH	NO	11	36
3801	1735	1900	MOD	2	-1	CFI(180)	BOTH	NO	11	28
3801	1668	1910	MOD -	1	6	CFI(30)	BOTH	NO	11	36
3801	1668	1910	MOD -	1	9	CFI(5)	BOTH	NO	11	36
3801	1668	1910	MOD -	1	23	P	BOTH	NO	11	36
3802	1366	1910	MOD -	1	23	CFI()	BOTH	NO	46	59
3802	1366	1910	MOD -	1	-1	CFI(162)	BOTH	NO	46	59
3802	1735	1900	MOD	2	-1	CFI(180)	BOTH	NO	46	33
3802	1366	1910	MOD -	1	13	CFI(30)	BOTH	NO	46	59
3802	1366	1910	MOD -	1	20	CFI(5)	BOTH	NO	46	59

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Site #	Year Start	Year End	Regime (severity)	Regime (char)	Fire freq (yrs)	Frequency computation	Fire evidence	Cross-dated?	# of Trees	# of Fires
3802	1366	1910	MOD -	1	24	P	BOTH	NO	46	59
3803	1594	1910	MOD -	1	51	CFI()	BOTH	NO	7	19
3803	1735	1900	MOD	2	-1	CFI(180)	BOTH	NO	7	11
3803	1594	1910	MOD -	1	18	CFI(30)	BOTH	NO	7	19
3803	1594	1910	MOD -	1	28	CFI(5)	BOTH	NO	7	19
3803	1594	1910	MOD -	1	54	P	BOTH	NO	7	19
3804	1631	1910	MOD -	1	-1	CFI(162)	BOTH	NO	9	17
3804	1735	1900	MOD	2	-1	CFI(180)	BOTH	NO	9	12
3804	1631	1910	MOD -	1	22	CFI(30)	BOTH	NO	9	17
3804	1631	1910	MOD -	1	32	CFI(5)	BOTH	NO	9	17
3804	1631	1910	MOD -	1	51	P	BOTH	NO	9	17
3805	1735	1900	MOD	1	-1	CFI(180)	BOTH	NO	3	4
3805	1608	1910	MOD -	1	57	CFI(30)	BOTH	NO	3	6
3806	1686	1910	MOD -	1	12	CFI()	BOTH	NO	4	19
3806	1735	1900	MOD	2	-1	CFI(180)	BOTH	NO	4	15
3806	1686	1910	MOD -	1	12	CFI(5)	BOTH	NO	4	19
3806	1686	1910	MOD -	1	11	P	BOTH	NO	4	19
3807	1574	1910	MOD -	1	20	CFI()	BOTH	NO	11	29
3807	1574	1910	MOD -	1	-1	CFI(162)	BOTH	NO	11	29
3807	1735	1900	MOD	2	-1	CFI(180)	BOTH	NO	11	19
3807	1574	1910	MOD -	1	20	CFI(30)	BOTH	NO	11	29
3807	1574	1910	MOD -	1	23	P	BOTH	NO	11	29
3808	1636	1910	MOD -	1	42	CFI()	BOTH	NO	16	20
3808	1636	1910	MOD -	1	-1	CFI(162)	BOTH	NO	16	20
3808	1735	1900	MOD	2	-1	CFI(180)	BOTH	NO	16	12
3808	1636	1910	MOD -	1	34	CFI(30)	BOTH	NO	16	20
3808	1636	1910	MOD -	1	36	CFI(5)	BOTH	NO	16	20
3808	1636	1910	MOD -	1	44	P	BOTH	NO	16	20
3809	1595	1910	MOD -	1	72	CFI()	BOTH	NO	12	14
3809	1735	1900	MOD	2	-1	CFI(180)	BOTH	NO	12	11
3809	1595	1910	MOD -	1	64	CFI(5)	BOTH	NO	12	14
3809	1595	1910	MOD -	1	54	P	BOTH	NO	12	14
3810	1695	1910	MOD -	1	19	CFI()	BOTH	NO	7	17
3810	1735	1900	MOD	2	-1	CFI(180)	BOTH	NO	7	16
3810	1695	1910	MOD -	1	12	CFI(30)	BOTH	NO	7	17
3810	1695	1910	MOD -	1	19	CFI(5)	BOTH	NO	7	17
3810	1695	1910	MOD -	1	21	P	BOTH	NO	7	17
3811	1573	1910	MOD -	1	31	CFI()	BOTH	NO	23	34
3811	1573	1910	MOD -	1	-1	CFI(162)	BOTH	NO	23	34
3811	1735	1900	MOD	2	-1	CFI(180)	BOTH	NO	23	24
3811	1573	1910	MOD -	1	32	CFI(30)	BOTH	NO	23	34
3811	1573	1910	MOD -	1	30	CFI(5)	BOTH	NO	23	34
3811	1573	1910	MOD -	1	32	P	BOTH	NO	23	34
3812	1660	1910	MOD -	1	51	CFI()	BOTH	NO	17	15
3812	1660	1910	MOD -	1	-1	CFI(162)	BOTH	NO	17	15
3812	1735	1900	MOD	2	-1	CFI(180)	BOTH	NO	17	12
3812	1660	1910	MOD -	1	53	CFI(5)	BOTH	NO	17	15
3812	1660	1910	MOD -	1	60	P	BOTH	NO	17	15
3813	1695	1910	MOD -	1	94	CFI()	BOTH	NO	10	17
3813	1695	1910	MOD -	1	-1	CFI(162)	BOTH	NO	10	17
3813	1735	1900	MOD	2	-1	CFI(180)	BOTH	NO	10	14
3813	1695	1910	MOD -	1	61	CFI(30)	BOTH	NO	10	17
3813	1695	1910	MOD -	1	106	P	BOTH	NO	10	17
3901	1748	1886	LOW	2	10	CFI(10)	SCAR	YES	4	-1
3902	1684	1886	LOW	2	7	CFI(6)	SCAR	YES	7	-1
3903	1631	1879	LOW	2	7	CFI(5)	SCAR	YES	4	-1
3904	1729	1890	LOW	2	7	CFI(3)	SCAR	YES	4	-1
3905	1657	1893	LOW	2	-1	CFI(2000)	SCAR	YES	50	-1
3906	1534	1722	MOD	2	10	CFI()	SCAR	YES	5	-1
4001	1770	1864	MOD -	1	-1	CFI()	SCAR	NO	-1	9
4101	1707	1900	LOW	2	-1	CFI(1215)	SCAR	NO	197	59
4102	1730	1900	MOD	2	-1	CFI(1619)	BOTH	NO	185	18
4201	1776	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1

Site #	Year Start	Year End	Regime (seventy)	Regime (char)	Fire freq (yrs)	Frequency computation	Fire evidence	Cross-dated?	# of Trees	# of Fires
4202	1776	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4203	1697	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4204	1697	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4205	1704	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4206	1704	1860	LOW	2	-1	CFI(122)	SCAR	NO	12	-1
4207	1737	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4208	1737	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4209	1797	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4210	1797	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4211	1700	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4212	1700	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4213	1772	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4214	1772	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4215	1710	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4216	1710	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4217	1695	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4218	1695	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4219	1729	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4220	1729	1860	LOW	2	-1	CFI(162)	SCAR	NO	6	-1
4301	1650	1935	MOD	1	28	NFR	BOTH	NO	-1	6
4302	1650	1935	MOD	1	29	NFR	BOTH	NO	-1	10
4303	1650	1935	MOD	1	29	NFR	BOTH	NO	-1	10
4304	1650	1935	MOD	1	30	NFR	BOTH	NO	-1	10
4305	1650	1935	MOD	1	36	NFR	BOTH	NO	-1	7
4306	1650	1935	MOD	1	37	NFR	BOTH	NO	-1	8
4307	1650	1935	MOD	1	46	NFR	BOTH	NO	-1	4
4308	1650	1935	MOD	1	52	NFR	BOTH	NO	-1	6
4309	1650	1935	MOD	1	24	NFR	BOTH	NO	-1	10
4310	1650	1935	MOD	1	25	NFR	BOTH	NO	-1	7
4311	1650	1935	MOD	1	26	NFR	BOTH	NO	-1	11
4312	1650	1935	MOD	1	32	NFR	BOTH	NO	-1	9
4313	1650	1935	MOD	1	41	NFR	BOTH	NO	-1	6
4314	1650	1935	MOD	1	44	NFR	BOTH	NO	-1	6
4315	1650	1935	MOD	1	45	NFR	BOTH	NO	-1	4
4316	1650	1935	MOD	1	52	NFR	BOTH	NO	-1	5
4317	1650	1935	MOD	1	61	NFR	BOTH	NO	-1	5
4318	1650	1935	MOD	1	64	NFR	BOTH	NO	-1	5
4319	1650	1935	MOD	1	64	NFR	BOTH	NO	-1	5
4320	1650	1935	MOD	1	76	NFR	BOTH	NO	-1	4
4321	1650	1935	HIGH	3	131	NFR	BOTH	NO	-1	-1
4322	1650	1935	HIGH	3	150	NFR	BOTH	NO	-1	-1
4323	1650	1935	HIGH	3	149	NFR	BOTH	NO	-1	-1
4324	1650	1935	HIGH	3	149	NFR	BOTH	NO	-1	3
4325	1650	1935	HIGH	3	169	NFR	BOTH	NO	-1	-1
4326	1650	1935	HIGH	3	187	NFR	BOTH	NO	-1	-1
4327	1650	1935	HIGH	3	190	NFR	BOTH	NO	-1	-1
4328	1650	1935	HIGH	3	191	NFR	BOTH	NO	-1	-1
4329	1650	1935	HIGH	3	201	NFR	BOTH	NO	-1	-1
4330	1650	1935	HIGH	3	237	NFR	BOTH	NO	-1	-1
4331	1650	1935	HIGH	3	252	NFR	BOTH	NO	-1	-1
4332	1650	1935	HIGH	3	253	NFR	BOTH	NO	-1	-1
4333	1650	1935	HIGH	3	332	NFR	BOTH	NO	-1	-1
4334	1650	1935	HIGH	3	145	NFR	BOTH	NO	-1	-1
4335	1650	1935	HIGH	3	164	NFR	BOTH	NO	-1	-1
4336	1650	1935	HIGH	3	206	NFR	BOTH	NO	-1	2
4337	1650	1935	HIGH	3	255	NFR	BOTH	NO	-1	-1
4338	1650	1935	HIGH	3	344	NFR	BOTH	NO	-1	-1
4339	1650	1935	HIGH	3	450	NFR	BOTH	NO	-1	-1
4401	1714	1881	MOD	2	17	P	SCAR	YES	1	11
4402	1714	1881	MOD	1	33	P	SCAR	YES	1	6
4403	1714	1881	MOD	1	28	P	SCAR	YES	1	7
4404	1714	1881	MOD	2	19	P	SCAR	YES	1	10
4405	1714	1881	MOD	1	33	P	SCAR	YES	1	6

Site #	Year Start	Year End	Regime (severity)	Regime (char)	Fire freq (yrs)	Frequency computation	Fire evidence	Cross-dated?	# of Trees	# of Fires
4406	1714	1881	MOD	2	24	P	SCAR	YES	1	8
4407	1714	1881	MOD	1	33	P	SCAR	YES	1	6
4408	1714	1881	MOD	2	21	P	SCAR	YES	1	9
4409	1714	1881	MOD -	1	-1	P	SCAR	YES	1	1
4410	1714	1881	MOD	2	24	P	SCAR	YES	1	8
4411	1714	1881	MOD	1	56	P	SCAR	YES	1	4
4412	1714	1881	MOD	1	56	P	SCAR	YES	1	4
4413	1714	1881	MOD	2	6	CFI(4)	SCAR	YES	12	28
4501	1690	1850	MOD	1	-1	CFI(260)	SCAR	NO	-1	6
4502	1710	1860	MOD	1	-1	CFI(260)	SCAR	NO	-1	6
4503	1650	1870	MOD	2	-1	CFI(260)	SCAR	NO	-1	11
4504	1700	1870	MOD	2	-1	CFI(260)	SCAR	NO	-1	13
4601	1605	1864	HIGH	3	88	P	ORIGIN	NO	-1	14
4701	1670	1900	MOD -	1	-1	-1	BOTH	NO	-1	1
4702	1670	1900	MOD -	1	-1	-1	BOTH	NO	-1	1
4801	1735	1910	MOD	3	-1	CFI0	BOTH	NO	15	-1
4802	1735	1910	MOD	3	121	CFI0	BOTH	NO	88	-1
4803	1735	1910	MOD	3	146	CFI0	BOTH	NO	15	-1
4804	1735	1910	MOD	3	-1	CFI0	BOTH	NO	8	-1
4805	1735	1910	MOD	3	-1	CFI(2984)	BOTH	NO	126	-1
4901	1758	1876	LOW	2	11	P	SCAR	YES	1	11
4902	1754	1876	LOW	2	8	P	SCAR	YES	1	16
4903	1769	1876	LOW	2	6	P	SCAR	YES	1	18
4904	1809	1861	LOW	2	17	P	SCAR	YES	1	3
4905	1824	1876	LOW	2	9	P	SCAR	YES	1	6
4906	1785	1873	LOW	2	4	P	SCAR	YES	1	20
4907	1540	1876	LOW	2	11	P	SCAR	YES	1	31
4908	1540	1876	LOW	2	5	CFI(17)	SCAR	YES	7	68
4908	1754	1876	LOW	2	2	CFI(17)	SCAR	YES	7	68
4908	1800	1876	LOW	2	2	CFI(17)	SCAR	YES	7	68
4908	1820	1876	LOW	2	2	CFI(17)	SCAR	YES	7	68
4908	1824	1869	LOW	2	2	CFI(17)	SCAR	YES	7	68
4908	1850	1865	LOW	2	1	CFI(17)	SCAR	YES	7	68
5001	1608	1900	MOD	2	22	P	SCAR	YES	31	10
5101	1790	1900	LOW	2	2	CFI(40)	SCAR	YES	10	61
5101	1810	1860	LOW	2	1	CFI(40)	SCAR	YES	10	-1
5101	1810	1841	LOW	2	1	CFI(40)	SCAR	YES	9	25
5102	1750	1900	LOW	2	4	CFI0	SCAR	YES	10	38
5102	1815	1900	LOW	2	3	CFI0	SCAR	YES	10	25
5102	1840	1890	LOW	2	2	CFI0	SCAR	YES	10	22
5201	1736	1863	LOW	2	12	P	SCAR	YES	1	11
5202	1775	1863	LOW	2	5	P	SCAR	YES	1	19
5203	1713	1863	LOW	2	7	P	SCAR	YES	1	23
5204	1722	1863	LOW	2	7	P	SCAR	YES	1	19
5205	1700	1863	LOW	2	7	P	SCAR	YES	1	25
5206	1760	1863	LOW	2	5	P	SCAR	YES	1	19
5207	1755	1861	LOW	2	5	P	SCAR	YES	1	22
5301	1722	1900	LOW	2	4	P	SCAR	YES	1	41
5401	1750	1900	MOD	1	18	P	SCAR	NO	2	-1
5501	1540	1860	MOD	1	-1	CFI(200)	SCAR	NO	19	-1
5501	1540	1860	MOD	1	12	P	SCAR	NO	19	-1
5502	1650	1860	MOD	1	-1	CFI(200)	SCAR	NO	20	-1
5502	1650	1860	MOD	1	9	P	SCAR	NO	20	-1
5503	1200	1860	MOD	1	-1	CFI(200)	SCAR	NO	15	-1
5503	1200	1860	MOD	1	10	P	SCAR	NO	15	-1
5601	1630	1847	MOD	2	6	P	SCAR	NO	1	36
5602	1509	1785	MOD	2	23	P	SCAR	NO	1	12
5603	1400	1813	MOD	2	11	P	SCAR	NO	1	40
5604	1366	1825	MOD	2	21	P	SCAR	NO	1	22
5605	1406	1754	MOD	2	17	P	SCAR	NO	1	20
5606	1520	1830	MOD	2	14	P	SCAR	NO	1	22
5607	1579	1807	MOD	2	10	P	SCAR	NO	1	24
5608	1645	1825	MOD	2	14	P	SCAR	NO	1	14

Site #	Year Start	Year End	Regime (severity)	Regime (char)	Fire freq (yrs)	Frequency computation	Fire evidence	Cross-dated?	# of Trees	# of Fires
5609	1681	1793	MOD	2	10	P	SCAR	NO	1	11
5610	1780	1860	MOD	2	6	P	SCAR	NO	1	14
5611	1616	1824	MOD	2	10	P	SCAR	NO	1	21
5612	1541	1789	MOD	2	8	P	SCAR	NO	1	34
5613	1376	1860	MOD	2	11	P	SCAR	NO	1	46
5614	1769	1860	MOD	2	7	P	SCAR	NO	1	15
5701	-1	1893	MOD	2	17	-1	SCAR	NO	-1	-1
5801	1859	1905	MOD	3	23	CFI0	BOTH	NO	-1	2
5802	1839	1905	MOD	3	22	CFI0	BOTH	NO	-1	4
5803	1839	1905	MOD	3	22	CFI0	BOTH	NO	-1	4
5804	1867	1905	MOD	3	19	CFI0	BOTH	NO	-1	3
5805	1839	1905	MOD	3	33	CFI0	BOTH	NO	-1	3
5806	1758	1905	MOD	3	21	CFI0	BOTH	NO	-1	8
5807	1670	1905	LOW	1	21	CFI0	BOTH	NO	-1	11
5808	1768	1905	LOW	1	27	CFI0	BOTH	NO	-1	5
5809	1768	1905	LOW	1	23	CFI0	BOTH	NO	-1	6
5810	1652	1905	LOW	1	25	CFI0	BOTH	NO	-1	9
5811	1652	1905	LOW	1	25	CFI0	BOTH	NO	-1	10
5812	1812	1905	LOW	1	31	CFI0	BOTH	NO	-1	3
5813	1770	1905	LOW	1	23	CFI0	BOTH	NO	-1	6
5814	1758	1905	LOW	1	16	CFI0	BOTH	NO	-1	9
5815	1815	1905	LOW	1	23	CFI0	BOTH	NO	-1	4
5816	1710	1905	LOW	1	33	CFI0	BOTH	NO	-1	6
5901	1650	1922	MOD	2	28	NFR	BOTH	NO	82	31
5901	1650	1922	MOD	2	23	P	SCAR	NO	23	-1
6001	928	1928	MOD	3	25	CFI(12)	SCAR	NO	100	45
6101	1835	1900	MOD	2	-1	-1	BOTH	NO	21	7
6102	1749	1900	MOD	4	-1	-1	BOTH	NO	-1	23
6103	1844	1926	MOD	2	175	NFR	BOTH	NO	-1	9
6104	1785	1936	HIGH	3	-1	-1	BOTH	NO	-1	49
6201	1846	1904	MOD	1	-1	-1	BOTH	NO	3500	1
6202	1846	1904	MOD	3	-1	-1	BOTH	NO	-1	2
6301	1721	1859	MOD	2	-1	CFI(600)	BOTH	YES	-1	5
6301	1721	1949	MOD	1	-1	CFI(600)	BOTH	YES	-1	15
6301	1721	1949	MOD	1	69	P	SCAR	YES	-1	8
6401	1866	1908	LOW	2	21	P	SCAR	NO	-1	3
6402	1845	1900	LOW	1	28	P	SCAR	NO	-1	3
6403	1844	1919	LOW	2	7	P	SCAR	NO	6	10
6404	1888	1895	LOW	2	7	P	SCAR	NO	-1	2
6405	1708	1884	LOW	1	29	P	SCAR	NO	-1	7
6406	1420	1631	LOW	1	50	P	SCAR	NO	2	5
6407	1420	1982	LOW	2	20	CFI0	SCAR	NO	-1	-1
6408	-1	1982	LOW	2	24	CFI0	SCAR	NO	-1	-1
6409	-1	1982	LOW	1	30	CFI0	SCAR	NO	-1	-1
6410	-1	1982	MOD	3	51	CFI0	SCAR	NO	-1	-1
6411	-1	1982	MOD	3	53	CFI0	SCAR	NO	-1	-1
6412	-1	1982	MOD	3	71	CFI0	SCAR	NO	-1	-1
6501	1613	1919	MOD	3	77	CFI(41)	BOTH	NO	-1	5
6502	1769	1919	MOD	3	75	CFI(41)	BOTH	NO	-1	3
6503	1700	1919	MOD	3	73	CFI(41)	BOTH	NO	-1	4
6504	1736	1919	MOD	3	61	CFI(41)	BOTH	NO	-1	4
6505	1772	1919	MOD	3	49	CFI(41)	BOTH	NO	-1	4
6506	1795	1919	MOD	3	41	CFI(41)	BOTH	NO	-1	4
6507	1736	1919	MOD	3	38	CFI(41)	BOTH	NO	-1	6
6508	1736	1919	MOD	3	37	CFI(41)	BOTH	NO	-1	6
6509	1736	1919	MOD	3	26	CFI(41)	BOTH	NO	-1	8
6510	1819	1919	MOD	3	25	CFI(41)	BOTH	NO	-1	5
6511	1749	1919	MOD	3	24	CFI(41)	BOTH	NO	-1	8
6512	1680	1910	MOD	3	46	CFI(41)	BOTH	NO	-1	6
6513	1834	1919	MOD	3	43	CFI(41)	BOTH	NO	-1	3
6514	1842	1919	MOD	3	26	CFI(41)	BOTH	NO	-1	4
6515	1772	1919	MOD	3	25	CFI(41)	BOTH	NO	-1	7
6516	1808	1919	MOD	2	22	CFI(41)	BOTH	NO	-1	6

Site #	Year Start	Year End	Regime (severity)	Regime (char)	Fire freq (yrs)	Frequency computation	Fire evidence	Cross-dated?	# of Trees	# of Fires
6517	1848	1910	MOD	2	21	CFI(41)	BOTH	NO	-1	4
6518	1842	1919	MOD	2	19	CFI(41)	BOTH	NO	-1	5
6519	1680	1919	MOD	3	48	CFI(41)	BOTH	NO	-1	6
6520	1786	1919	MOD	3	44	CFI(41)	BOTH	NO	-1	4
6521	1796	1919	MOD	3	44	CFI(41)	BOTH	NO	-1	6
6522	1736	1919	MOD	3	44	CFI(41)	BOTH	NO	-1	5
6523	1766	1919	MOD	3	38	CFI(41)	BOTH	NO	-1	5
6524	1740	1919	MOD	3	36	CFI(41)	BOTH	NO	-1	6
6525	1799	1919	MOD	3	30	CFI(41)	BOTH	NO	-1	5
6526	1794	1919	MOD	3	25	CFI(41)	BOTH	NO	-1	6
6527	1796	1919	MOD	2	25	CFI(41)	BOTH	NO	-1	6
6528	1799	1919	MOD	2	20	CFI(41)	BOTH	NO	-1	7
6601	1879	1895	MOD	3	16	CFI0	BOTH	NO	-1	2
6602	1879	1895	MOD	3	16	CFI0	BOTH	NO	-1	2
6603	1872	1972	MOD -	1	-1	CFI0	BOTH	NO	-1	1
6604	1850	1850	MOD -	1	-1	CFI0	BOTH	NO	-1	1
6605	1850	1850	MOD -	1	-1	CFI0	BOTH	NO	-1	1
6606	1850	1890	MOD	3	40	CFI0	BOTH	NO	-1	2
6607	1850	1890	MOD	3	40	CFI0	BOTH	NO	-1	2
6608	1850	1890	MOD	3	40	CFI0	BOTH	NO	-1	2
6609	1856	1879	MOD	3	23	CFI0	BOTH	NO	-1	2
6610	1856	1879	MOD	3	23	CFI0	BOTH	NO	-1	2
6611	1880	1880	MOD -	1	-1	CFI0	BOTH	NO	-1	1
6612	1872	1880	MOD	3	8	CFI0	BOTH	NO	-1	1
6613	1872	1880	MOD	3	8	CFI0	BOTH	NO	-1	1
6701	1744	1900	LOW	2	16	P	SCAR	NO	1	10
6702	1776	1900	LOW	2	10	P	SCAR	NO	1	12
6703	1707	1900	LOW	2	14	P	SCAR	NO	1	14
6704	1838	1900	LOW	2	10	P	SCAR	NO	1	6
6705	1752	1900	LOW	2	9	P	SCAR	NO	1	16
6706	1444	1900	LOW	2	14	P	SCAR	NO	1	33
6707	1444	1900	LOW	2	-1	CFI(130)	SCAR	NO	6	47
6707	1600	1900	LOW	2	-1	CFI(130)	SCAR	NO	6	42
6801	1542	1727	MOD	2	21	NFR	BOTH	NO	-1	10
6801	1727	1868	MOD	2	4	NFR	BOTH	NO	-1	33
6801	1868	1910	MOD	2	2	NFR	BOTH	NO	-1	18
6801	1542	1972	MOD	2	6	NFR	BOTH	NO	178	71
6901	1664	1890	LOW	1	58	P	SCAR	NO	3	-1
6902	1653	1890	LOW	1	62	P	SCAR	NO	2	-1
6903	1505	1890	LOW	1	44	P	SCAR	NO	12	28
6904	1626	1890	LOW	1	70	P	SCAR	NO	2	-1
6905	1564	1890	LOW	1	56	P	SCAR	NO	5	11
6906	1485	1890	LOW	1	50	P	SCAR	NO	6	22
6907	1716	1890	LOW	1	32	P	SCAR	NO	4	-1
6908	1776	1890	LOW	2	25	CFI0	SCAR	NO	2	-1
6909	1603	1890	LOW	2	17	CFI0	SCAR	NO	3	-1
6910	1693	1890	LOW	2	20	CFI0	SCAR	NO	2	-1
6911	1706	1890	LOW	2	26	CFI0	SCAR	NO	2	-1
6912	1646	1890	LOW	2	41	CFI0	SCAR	NO	2	-1
6913	1773	1890	LOW	2	20	CFI0	SCAR	NO	2	-1
7001	1436	1850	MOD	3	27	P	SCAR	NO	20	-1
7002	1612	1850	MOD	2	22	P	SCAR	NO	22	-1
7101	1729	1892	LOW	1	163	CFI0	SCAR	YES	-1	2
7102	1578	1729	LOW	1	151	CFI0	SCAR	YES	-1	2
7103	1729	1900	LOW -	1	-1	CFI0	SCAR	YES	1	1
7104	1737	1900	LOW -	1	-1	CFI0	SCAR	YES	2	1
7105	1729	1900	LOW -	1	-1	CFI0	SCAR	YES	2	1
7106	1826	1900	LOW -	1	-1	CFI0	SCAR	YES	2	1
7201	1700	1875	MOD	2	13	CFI(1)	SCAR	NO	21	23
7201	1500	1699	MOD	2	13	CFI(1)	SCAR	NO	2	4
7201	1700	1799	MOD	2	10	CFI(1)	SCAR	NO	21	14
7201	1800	1875	MOD	2	14	CFI(1)	SCAR	NO	21	9
7201	1700	1875	MOD	2	5	CFI(10)	SCAR	NO	58	23

Site #	Year Start	Year End	Regime (severity)	Regime (char)	Fire freq. (yrs)	Frequency computation	Fire evidence	Cross-dated?	# of Trees	# of Fires
7201	1700	1875	MOD	2	24	P	SCAR	NO	17	23
7202	1700	1875	MOD	2	15	CFI(1)	SCAR	NO	13	21
7202	1700	1799	MOD	2	16	CFI(1)	SCAR	NO	13	11
7202	1800	1875	MOD	2	14	CFI(1)	SCAR	NO	13	10
7202	1700	1875	MOD	2	6	CFI(10)	SCAR	NO	77	21
7202	1700	1875	MOD	2	23	P	SCAR	NO	16	21
7203	1700	1875	MOD	2	17	CFI(1)	SCAR	NO	2	10
7203	1700	1799	MOD	2	13	CFI(1)	SCAR	NO	2	4
7203	1800	1875	MOD	2	19	CFI(1)	SCAR	NO	2	6
7203	1700	1875	MOD	2	9	CFI(10)	SCAR	NO	18	10
7203	1700	1875	MOD	2	21	P	SCAR	NO	7	10
7204	1700	1875	MOD	2	9	CFI(1)	SCAR	NO	10	21
7204	1500	1699	MOD	2	10	CFI(1)	SCAR	NO	1	0
7204	1700	1799	MOD	2	8	CFI(1)	SCAR	NO	10	15
7204	1800	1875	MOD	2	12	CFI(1)	SCAR	NO	10	6
7204	1700	1875	MOD	2	13	P	SCAR	NO	9	21
7205	1700	1875	MOD	2	16	CFI(1)	SCAR	NO	8	21
7205	1700	1799	MOD	2	14	CFI(1)	SCAR	NO	8	11
7205	1800	1875	MOD	2	20	CFI(1)	SCAR	NO	8	10
7205	1700	1875	MOD	2	22	P	SCAR	NO	5	21
7206	1700	1875	MOD	2	2	CFI0	SCAR	NO	37	-1
7207	1700	1875	MOD	2	2	CFI0	SCAR	NO	183	-1
7301	1813	1872	MOD	2	-1	CFI(486)	BOTH	NO	-1	5
7401	1708	1973	MOD	1	46	P	SCAR	YES	20	-1
7401	1708	1840	MOD	1	66	P	SCAR	YES	20	-1
7401	1840	1905	MOD	1	18	P	SCAR	YES	20	-1
7401	1905	1973	MOD	1	27	P	SCAR	YES	20	-1
7401	1708	1973	MOD	1	130	P	SCAR	YES	20	-1
7402	1708	1973	MOD	1	35	P	SCAR	YES	-1	-1
7403	1708	1973	MOD	1	64	P	SCAR	YES	-1	-1
7404	1708	1973	MOD	1	38	P	SCAR	YES	-1	-1
7405	1708	1973	MOD	1	36	P	SCAR	YES	-1	-1
7406	1708	1973	MOD	1	38	P	SCAR	YES	-1	-1
7501	1757	1813	LOW	2	-1	CFI(146)	SCAR	NO	9	-1
7502	1801	1863	LOW	2	21	CFI(1)	SCAR	NO	4	-1
7503	1801	1863	LOW	2	16	CFI(1)	SCAR	NO	2	-1
7504	1801	1863	LOW	2	13	CFI(1)	SCAR	NO	2	-1
7505	1801	1863	LOW	2	32	CFI(1)	SCAR	NO	3	-1
7506	1801	1863	LOW	2	13	CFI(1)	SCAR	NO	3	-1
7507	1801	1863	LOW	2	13	CFI(1)	SCAR	NO	4	-1
7508	1801	1863	LOW	2	16	CFI(1)	SCAR	NO	2	-1
7509	1801	1863	LOW	2	16	CFI(1)	SCAR	NO	2	-1
7510	1801	1863	LOW	2	6	CFI(1)	SCAR	NO	3	-1
7511	1801	1863	LOW	2	16	CFI(1)	SCAR	NO	4	-1
7512	1801	1863	LOW	2	9	CFI(1)	SCAR	NO	2	-1
7513	1801	1863	LOW	2	9	CFI(1)	SCAR	NO	2	-1
7514	1801	1863	LOW	2	5	CFI(1)	SCAR	NO	5	-1
7601	1814	1889	MOD	3	75	CFI0	BOTH	NO	-1	2
7602	1889	1889	MOD	3	-1	CFI0	BOTH	NO	-1	1
7603	1752	1814	MOD	3	67	CFI0	BOTH	NO	-1	2
7604	1752	1814	HIGH	3	62	CFI0	ORIGIN	NO	-1	2
7605	1752	1814	HIGH	3	62	CFI0	ORIGIN	NO	-1	2
7606	1814	1814	MOD	3	-1	CFI0	BOTH	NO	-1	1
7607	1913	1913	HIGH	3	-1	CFI0	ORIGIN	NO	-1	1
7608	1913	1913	MOD	3	-1	CFI0	BOTH	NO	-1	1
7609	1913	1913	MOD	3	-1	CFI0	BOTH	NO	-1	1
7610	1814	1814	MOD	3	-1	CFI0	BOTH	NO	-1	2
7611	1814	1913	MOD	3	99	CFI0	BOTH	NO	-1	2
7612	1814	1814	HIGH	3	-1	CFI0	ORIGIN	NO	-1	1
7613	1814	1913	MOD	3	68	CFI0	BOTH	NO	-1	2
7614	1814	1913	MOD	3	43	CFI0	BOTH	NO	-1	2
7615	1814	1913	MOD	3	68	CFI0	BOTH	NO	-1	2
7616	1814	1913	MOD	3	68	CFI0	BOTH	NO	-1	2

Site #	Year Start	Year End	Regime (severity)	Regime (char)	Fire freq (yrs)	Frequency computation	Fire evidence	Cross-dated?	# of Trees	# of Fires
7617	1785	1814	HIGH	3	29	CFI0	ORIGIN	NO	-1	2
7618	1785	1814	HIGH	3	29	CFI0	ORIGIN	NO	-1	2
7619	1814	1913	HIGH	3	68	CFI0	ORIGIN	NO	-1	2
7620	1814	1913	MOD	3	99	CFI0	BOTH	NO	-1	2
7621	1752	1913	MOD	3	55	CFI0	BOTH	NO	-1	2
7622	1913	1913	HIGH	3	-1	CFI0	ORIGIN	NO	-1	2
7623	1752	1913	MOD	3	45	CFI0	BOTH	NO	-1	2
7624	1752	1913	MOD	3	55	CFI0	BOTH	NO	-1	1
7625	1752	1913	HIGH	3	125	CFI0	BOTH	NO	-1	2
7701	-1	1860	LOW	2	10	P	SCAR	NO	-1	-1
7701	1860	1904	LOW	2	14	P	SCAR	NO	-1	-1
7702	-1	1860	LOW	2	14	P	SCAR	NO	-1	-1
7702	1860	1974	LOW	2	19	P	SCAR	NO	-1	-1
7801	1797	1904	LOW	2	10	P	SCAR	NO	26	-1
7802	1797	1904	LOW	2	12	P	SCAR	NO	31	-1
7901	1681	1848	MOD	3	25	CFI(5)	BOTH	NO	9	6
8001	1680	1910	HIGH	3	58	VW	ORIGIN	NO	427	-1
8101	1500	1919	HIGH	3	419	CFI0	ORIGIN	NO	-1	1
8102	1834	1919	MOD	3	85	CFI0	SCAR	NO	-1	2
8103	1541	1919	MOD	3	95	CFI0	SCAR	NO	-1	4
8104	1834	1914	MOD	3	80	CFI0	SCAR	NO	-1	2
8105	1834	1919	HIGH	3	85	CFI0	ORIGIN	NO	-1	1
8106	1757	1919	MOD	3	81	CFI0	SCAR	NO	-1	2
8107	1757	1919	MOD	3	81	CFI0	SCAR	NO	-1	2
8108	1772	1919	MOD	3	74	CFI0	SCAR	NO	-1	2
8109	1757	1919	MOD	3	81	CFI0	SCAR	NO	-1	2
8110	1500	1919	HIGH	3	209	CFI0	ORIGIN	NO	-1	2
8201	1362	1962	-1	1	-1	-1	ORIGIN	NO	40	1
8301	1780	1940	MOD	3	63	CFI0	SCAR	NO	-1	4
8302	-1	1940	MOD	3	50	CFI0	SCAR	NO	-1	3
8303	1780	1940	MOD	3	83	CFI0	SCAR	NO	-1	3
8304	-1	1940	MOD	3	111	CFI0	SCAR	NO	-1	3
8305	1733	1940	MOD	3	59	CFI0	SCAR	NO	-1	4
8306	1733	1940	MOD	3	71	CFI0	SCAR	NO	-1	4
8307	1900	1940	MOD	3	71	CFI0	SCAR	NO	-1	2
8308	1773	1940	MOD	3	-1	CFI0	SCAR	NO	-1	16
8401	1595	1900	MOD	3	-1	CFI(750)	SCAR	YES	14	9
8401	1595	1875	MOD	3	29	P	SCAR	YES	14	-1
8501	1765	1890	HIGH	3	-1	-1	ORIGIN	NO	-1	2
8502	1865	1890	HIGH	3	-1	-1	ORIGIN	NO	-1	1
8503	1879	1890	HIGH	3	-1	-1	BOTH	NO	-1	1
8504	1890	1890	HIGH	3	-1	-1	ORIGIN	NO	-1	1
8601	1700	1863	MOD	3	83	CFI(1)	BOTH	NO	6	2
8602	1700	1863	MOD	3	83	CFI0	BOTH	NO	5	2
8603	1700	1863	MOD	3	56	CFI0	BOTH	NO	5	3
8604	1700	1863	MOD	3	40	CFI(30)	BOTH	NO	16	3
8701	1622	1862	LOW	2	20	CFI0	SCAR	NO	15	13
8701	450	1862	LOW	1	109	CFI0	SCAR	NO	15	14
8801	1782	1852	MOD	2	18	CFI(8)	SCAR	NO	12	5
8901	1827	1885	MOD	2	11	CFI(19)	SCAR	NO	10	5
9001	1859	1909	MOD	3	50	CFI0	SCAR	NO	-1	2
9101	1630	1900	MOD	3	-1	CFI(2540)	BOTH	NO	-1	9
9102	1630	1900	MOD	3	-1	CFI(3610)	BOTH	NO	-1	6
9103	1630	1900	MOD	3	-1	CFI(7320)	BOTH	NO	44	12
9201	1617	1915	MOD	3	98	P	SCAR	NO	2	8
9202	1492	1915	MOD	3	63	P	SCAR	NO	4	15
9203	1740	1915	MOD	3	37	P	SCAR	NO	3	11
9204	1734	1915	MOD	3	67	P	SCAR	NO	3	6
9205	1523	1915	MOD	3	108	P	SCAR	NO	5	9
9206	1621	1915	MOD	3	147	P	SCAR	NO	1	2
9207	1561	1915	MOD	3	71	P	SCAR	NO	1	4
9208	1746	1915	MOD	3	28	P	SCAR	NO	1	4
9209	1750	1915	MOD	3	165	P	SCAR	NO	1	1

Site #	Year Start	Year End	Regime (severity)	Regime (char)	Fire freq (yrs)	Frequency computation	Fire evidence	Cross-dated?	# of Trees	# of Fires
9210	1658	1915	MOD	3	129	P	SCAR	NO	1	2
9301	1660	1830	LOW	2	-1	CFI(6500)	SCAR	YES	16	61
9401	1620	1890	LOW	2	15	P	SCAR	NO	-1	6
9501	1652	1886	MOD	1	-1	-1	SCAR	YES	60	25
9601	1706	1973	MOD	3	123	NFR	SCAR	NO	-1	32
9601	1706	1900	MOD	2	5	P	SCAR	NO	-1	12
9601	1706	1973	MOD	3	36	P	SCAR	NO	-1	-1
9601	1706	1973	MOD	3	29	P	SCAR	NO	-1	-1
9601	1706	1973	MOD	3	51	P	SCAR	NO	-1	-1
9602	1706	1973	MOD	2	15	P	SCAR	NO	-1	-1
9603	1706	1973	MOD	2	11	P	SCAR	NO	-1	-1
9604	1706	1973	MOD	2	10	P	SCAR	NO	-1	-1
9701	1703	1832	LOW	1	-1	CFI(9238)	SCAR	YES	-1	7
9801	1735	1910	HIGH	3	58	CFI0	BOTH	NO	8	5
9802	1735	1910	HIGH	3	175	CFI0	BOTH	NO	7	2
9803	1735	1910	HIGH	3	88	CFI0	BOTH	NO	7	2
9804	1735	1910	HIGH	3	88	CFI0	BOTH	NO	3	2
9805	1735	1910	HIGH	3	175	CFI0	BOTH	NO	5	1
9806	1735	1910	HIGH	3	175	CFI0	BOTH	NO	6	1
9807	1735	1910	HIGH	3	175	CFI0	BOTH	NO	6	1
9808	1735	1910	HIGH	3	44	CFI0	BOTH	NO	6	4
9809	1735	1910	HIGH	3	175	CFI0	BOTH	NO	17	1
9810	1735	1910	HIGH	3	29	CFI0	BOTH	NO	35	7
9811	1735	1910	HIGH	3	175	CFI0	BOTH	NO	7	1
9812	1735	1910	HIGH	3	44	CFI0	BOTH	NO	20	4
9813	1735	1910	HIGH	3	88	CFI0	BOTH	NO	11	3
9814	1735	1910	HIGH	3	175	CFI0	BOTH	NO	17	1
9815	1735	1910	HIGH	3	175	CFI0	BOTH	NO	9	1
9816	1735	1910	HIGH	3	88	CFI0	BOTH	NO	11	1
9817	1735	1910	HIGH	3	175	CFI0	BOTH	NO	13	1
9818	1735	1910	HIGH	3	175	CFI0	BOTH	NO	13	1
9819	1735	1910	HIGH	3	88	CFI0	BOTH	NO	11	1
9820	1735	1910	HIGH	3	175	CFI0	BOTH	NO	9	0
9821	1735	1910	HIGH	3	175	CFI0	BOTH	NO	3	1
9822	1735	1910	HIGH	3	88	CFI0	BOTH	NO	6	4
9823	1735	1910	HIGH	3	44	CFI0	BOTH	NO	2	5
9824	1735	1910	HIGH	3	88	CFI0	BOTH	NO	2	2
9825	1735	1910	HIGH	3	88	CFI0	BOTH	NO	3	2
9826	1735	1910	HIGH	3	175	CFI0	BOTH	NO	5	3
9827	1735	1910	HIGH	3	88	CFI0	BOTH	NO	2	1
9828	1735	1910	HIGH	3	175	CFI0	BOTH	NO	4	3
9901	1714	1894	LOW	1	30	P	BOTH	NO	1	6
10001	1700	1895	LOW	2	10	P	SCAR	YES	2	19
10002	1700	1895	LOW	2	16	P	SCAR	YES	2	9
10003	1700	1895	LOW	2	10	P	SCAR	YES	2	7
10004	1700	1895	LOW	2	18	P	SCAR	YES	2	14
10005	1700	1895	LOW	2	11	P	SCAR	YES	2	11
10006	1700	1895	LOW	2	13	P	SCAR	YES	2	15
10007	1700	1895	LOW	2	22	P	SCAR	YES	2	11
10101	1688	1911	MOD	2	16	CFI0	SCAR	YES	5	15
10102	1671	1892	MOD	2	20	CFI0	SCAR	YES	5	12
10103	1644	1902	MOD	2	16	CFI0	SCAR	YES	4	17
10201	1518	1863	MOD	3	20	CFI(2)	SCAR	NO	109	18
10301	1726	1875	MOD	3	-1	CFI(368)	BOTH	NO	-1	-1
10302	1726	1875	MOD	3	-1	CFI(337)	BOTH	NO	-1	-1
10303	1726	1875	MOD	3	-1	CFI(397)	BOTH	NO	-1	-1
10304	1726	1875	MOD	3	-1	CFI(433)	BOTH	NO	-1	-1
10305	1726	1875	MOD	3	-1	CFI(286)	BOTH	NO	-1	-1
10306	1726	1875	MOD	3	-1	CFI(190)	BOTH	NO	-1	-1
10307	1726	1875	MOD	3	-1	CFI(223)	BOTH	NO	-1	-1
10308	1726	1875	MOD	3	-1	CFI(261)	BOTH	NO	-1	-1
10309	1726	1875	MOD	3	-1	CFI(410)	BOTH	NO	-1	-1
10310	1726	1875	MOD	3	-1	CFI(257)	BOTH	NO	-1	-1

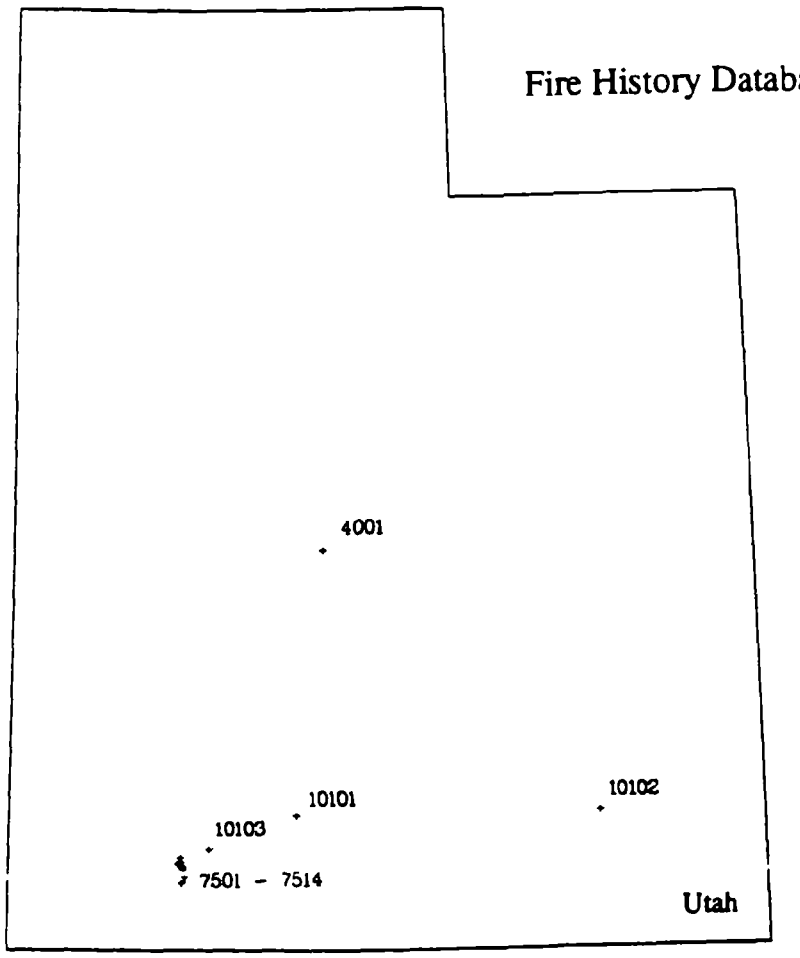
Site #	Year Start	Year End	Regime (seventy)	Regime (char)	Fire freq (yrs)	Frequency computation	Fire evidence	Cross-dated?	# of Trees	# of Fires
10311	1726	1875	MOD	3	-1	CFI(348)	BOTH	NO	-1	-1
10312	1726	1875	MOD	3	-1	CFI(3510)	BOTH	NO	-1	-1
10401	1633	1801	LOW	2	4	CFI(40)	SCAR	YES	11	-1
10401	1801	1904	LOW	2	6	CFI(40)	SCAR	YES	16	-1
10401	1837	1904	LOW	2	6	CFI(40)	SCAR	YES	16	-1
10402	1635	1801	LOW	2	-1	CFI(47)	SCAR	YES	5	-1
10402	1801	1904	LOW	2	-1	CFI(47)	SCAR	YES	18	-1
10402	1837	1904	LOW	2	-1	CFI(47)	SCAR	YES	18	-1
10403	1650	1803	LOW	2	17	CFI(40)	SCAR	YES	6	-1
10403	1803	1907	LOW	2	5	CFI(40)	SCAR	YES	10	-1
10403	1837	1907	LOW	2	4	CFI(40)	SCAR	YES	10	-1
10501	850	899	MOD	2	-1	CFI(259)	SCAR	YES	12	9
10501	900	949	MOD	2	-1	CFI(259)	SCAR	YES	14	10
10501	950	999	MOD	2	-1	CFI(259)	SCAR	YES	14	7
10501	1000	1049	MOD	2	-1	CFI(259)	SCAR	YES	14	11
10501	1050	1099	MOD	2	-1	CFI(259)	SCAR	YES	15	11
10501	1100	1149	MOD	2	-1	CFI(259)	SCAR	YES	15	13
10501	1150	1199	MOD	2	-1	CFI(259)	SCAR	YES	15	13
10501	1200	1249	MOD	2	-1	CFI(259)	SCAR	YES	16	15
10501	1250	1299	MOD	2	-1	CFI(259)	SCAR	YES	16	12
10501	1300	1349	MOD	2	-1	CFI(259)	SCAR	YES	17	11
10501	1350	1399	MOD	2	-1	CFI(259)	SCAR	YES	17	13
10501	1400	1449	MOD	2	-1	CFI(259)	SCAR	YES	17	13
10501	1450	1499	MOD	2	-1	CFI(259)	SCAR	YES	17	14
10501	1500	1549	MOD	2	-1	CFI(259)	SCAR	YES	18	9
10501	1550	1599	MOD	2	-1	CFI(259)	SCAR	YES	18	9
10501	1600	1649	MOD	2	-1	CFI(259)	SCAR	YES	17	10
10501	1650	1699	MOD	2	-1	CFI(259)	SCAR	YES	17	11
10501	1700	1749	MOD	2	-1	CFI(259)	SCAR	YES	17	17
10501	1750	1799	MOD	2	-1	CFI(259)	SCAR	YES	16	17
10501	1800	1849	MOD	2	-1	CFI(259)	SCAR	YES	12	12
10501	1850	1899	MOD	2	-1	CFI(259)	SCAR	YES	9	2
10601	1604	1801	LOW	2	-1	CFI(65)	SCAR	YES	-1	20
10601	1801	1851	LOW -	1	-1	CFI(65)	SCAR	YES	-1	0
10601	1851	1876	LOW	2	-1	CFI(65)	SCAR	YES	-1	3
10601	1604	1876	LOW	2	-1	CFI(65)	SCAR	YES	-1	23
10602	1606	1801	LOW	2	11	CFI(32)	SCAR	YES	-1	19
10602	1801	1851	LOW	2	25	CFI(32)	SCAR	YES	-1	1
10602	1851	1876	LOW	2	9	CFI(32)	SCAR	YES	-1	6
10602	1606	1894	LOW	2	12	CFI(32)	SCAR	YES	-1	26
10603	1632	1801	LOW	2	11	CFI(8)	SCAR	YES	-1	16
10603	1801	1851	LOW	2	10	CFI(8)	SCAR	YES	-1	4
10603	1852	1882	LOW	2	6	CFI(8)	SCAR	YES	-1	6
10603	1604	1876	LOW	2	10	CFI(8)	SCAR	YES	-1	26
10604	1604	1801	LOW	2	-1	CFI(356)	SCAR	YES	-1	32
10604	1801	1851	LOW	2	-1	CFI(356)	SCAR	YES	-1	5
10604	1851	1894	LOW	2	-1	CFI(356)	SCAR	YES	-1	13
10604	1604	1894	LOW	2	-1	CFI(356)	SCAR	YES	-1	50
10701	1640	1907	LOW	1	79	P	SCAR	NO	1	3
10702	1640	1907	LOW	2	18	P	SCAR	NO	2	13
10703	1640	1907	LOW	2	15	P	SCAR	NO	1	18
10704	1640	1907	LOW	1	27	P	SCAR	NO	3	5
10705	1640	1907	LOW	2	23	P	SCAR	NO	2	11
10706	1640	1907	LOW	2	18	P	SCAR	NO	2	6
10707	1640	1907	LOW	2	21	P	SCAR	NO	11	13
10801	1665	1910	-1 -	1	-1	-1	ORIGIN	NO	-1	3
10901	1836	1924	MOD	2	15	CFI(3)	BOTH	YES	13	7
10902	1797	1933	MOD	2	19	CFI(3)	BOTH	YES	17	8
10903	1740	1850	MOD	2	-1	CFI(400)	BOTH	YES	14	-1
10903	1851	1934	MOD	2	-1	CFI(400)	BOTH	YES	70	-1
11001	1740	1882	MOD	3	71	CFI(1)	BOTH	NO	494	3
11002	1882	1879	MOD	3	29	CFI0	BOTH	NO	555	3
11101	1880	1880	-1 -	1	-1	-1	BOTH	NO	-1	1

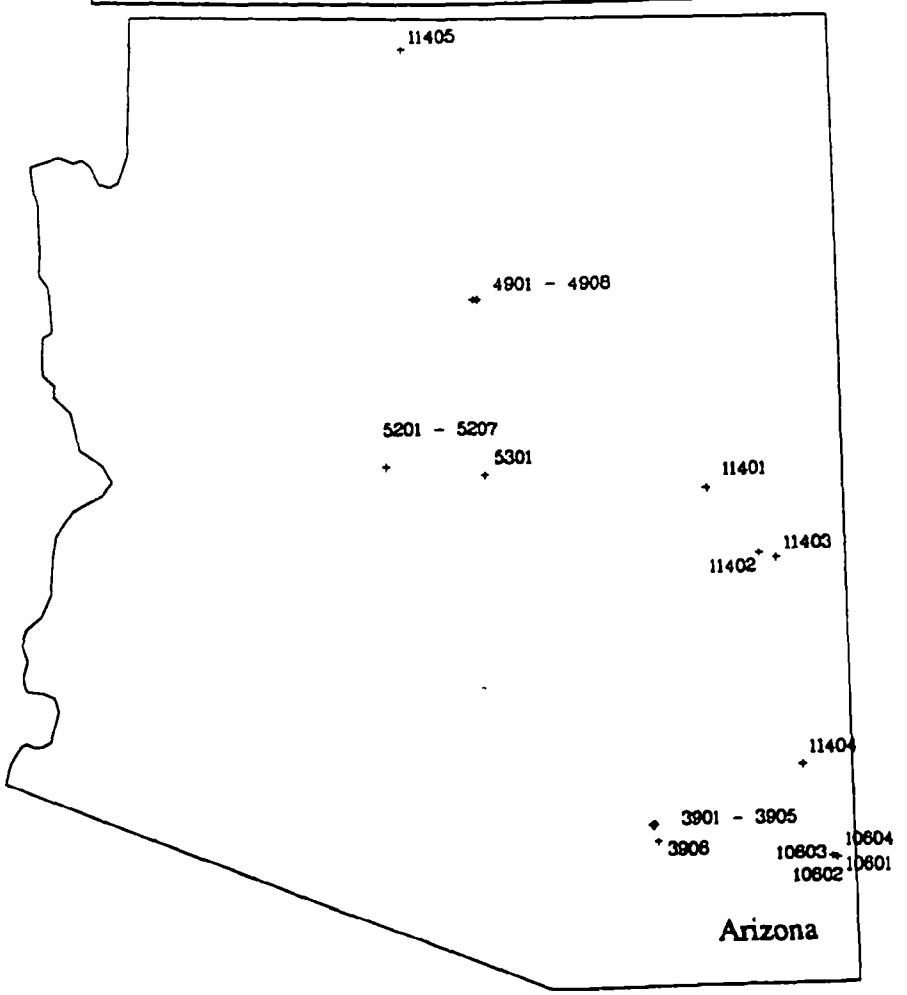
Site #	Year Start	Year End	Regime (severity)	Regime (char)	Fire freq (yrs)	Frequency computation	Fire evidence	Cross-dated?	# of Trees	# of Fires
11201	972	1972	MOD	3	250	CFI(1)	BOTH	NO	-1	4
11202	973	1973	MOD	3	333	CFI(1)	BOTH	NO	-1	3
11203	971	1971	MOD	3	286	CFI(1)	BOTH	NO	-1	3
11204	972	1972	MOD	3	333	CFI(1)	BOTH	NO	-1	3
11205	974	1974	MOD	3	167	CFI(1)	BOTH	NO	-1	6
11206	974	1974	MOD	3	154	CFI(1)	BOTH	NO	-1	6
11207	977	1977	MOD	3	-1	CFI(1)	BOTH	NO	-1	-1
11208	976	1976	MOD	3	125	CFI(1)	BOTH	NO	-1	8
11209	977	1977	MOD	3	-1	CFI(1)	BOTH	NO	-1	-1
11301	1775	1909	LOW	2	-1	CFI(160)	SCAR	NO	10	38
11301	1775	1909	LOW	2	11	P	SCAR	NO	10	65
11401	1831	1899	LOW	2	6	P	SCAR	NO	1	11
11402	1846	1906	LOW	2	7	P	SCAR	NO	1	9
11403	1851	1913	LOW	2	5	P	SCAR	NO	1	13
11404	1847	1898	LOW	2	6	P	SCAR	NO	1	10
11405	1708	1885	LOW	2	10	P	SCAR	NO	1	18
11501	1740	1849	MOD	1	15	CFI0	BOTH	YES	-1	12
11501	1740	1987	MOD	1	11	W	BOTH	YES	-1	12
11502	1740	1987	MOD	1	10	CFI0	BOTH	YES	-1	20
11502	1740	1987	MOD	1	7	W	BOTH	YES	-1	20
11503	1740	1987	MOD	1	10	CFI0	BOTH	YES	-1	14
11503	1740	1987	MOD	1	12	W	BOTH	YES	-1	14
11504	1740	1987	MOD	1	4	CFI0	BOTH	YES	-1	46
11504	1740	1987	MOD	1	4	W	BOTH	YES	-1	46
11601	1645	1855	MOD	3	-1	CFI(250)	SCAR	NO	28	7

APPENDIX E: MAPS OF SITE LOCATION BY STATE

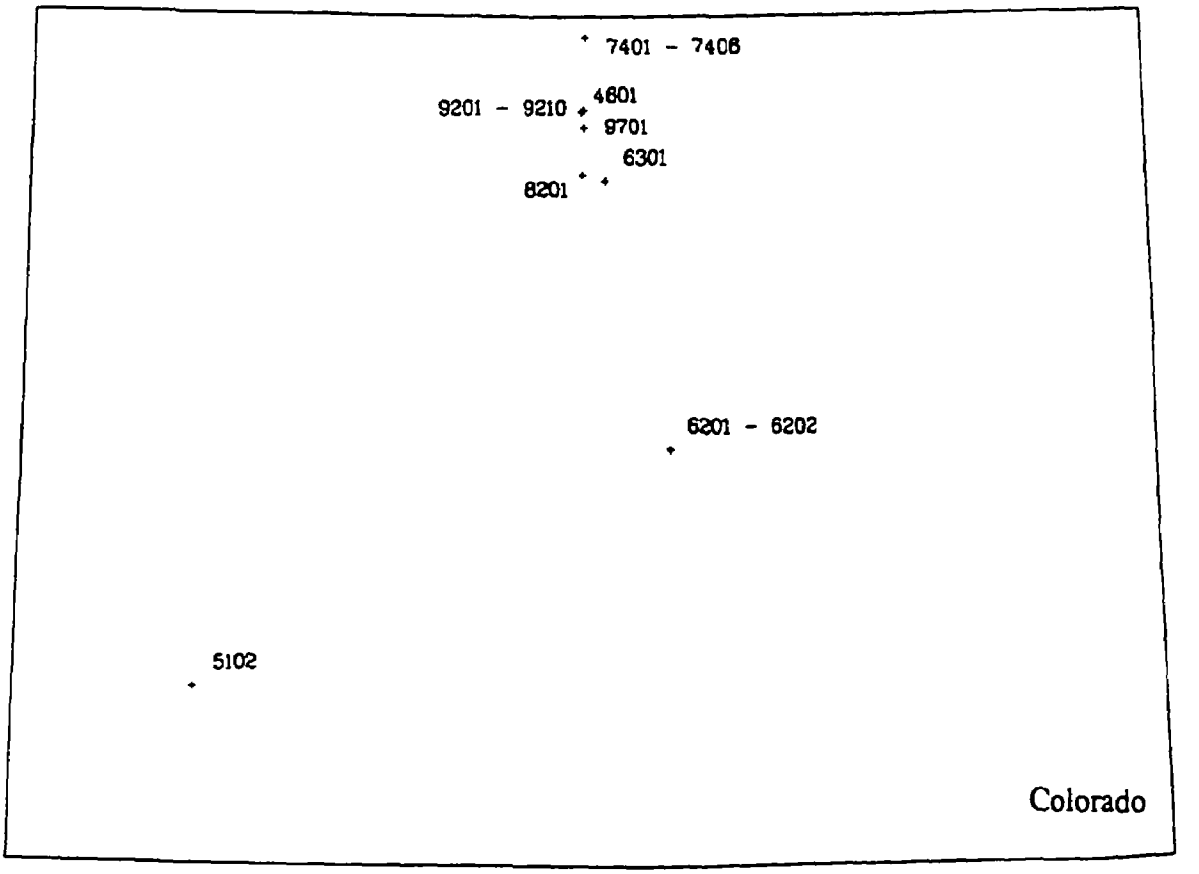
The locations of the sites in the database are mapped on the following pages by state. The data labels are the combined reference and site numbers (e.g. the second site from the fortieth reference has a reference/site number of 4002). (See also figure 1 above for site locations mapped for the entire western U.S. without reference/site number labels).

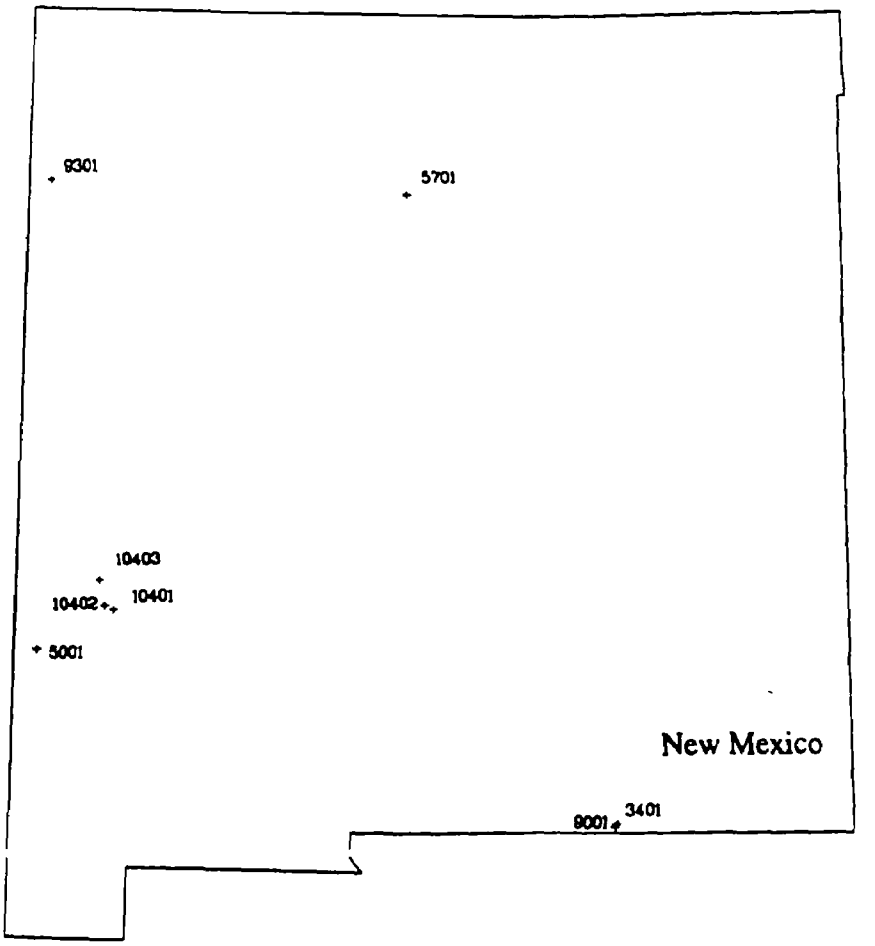
Fire History Database Site Locations



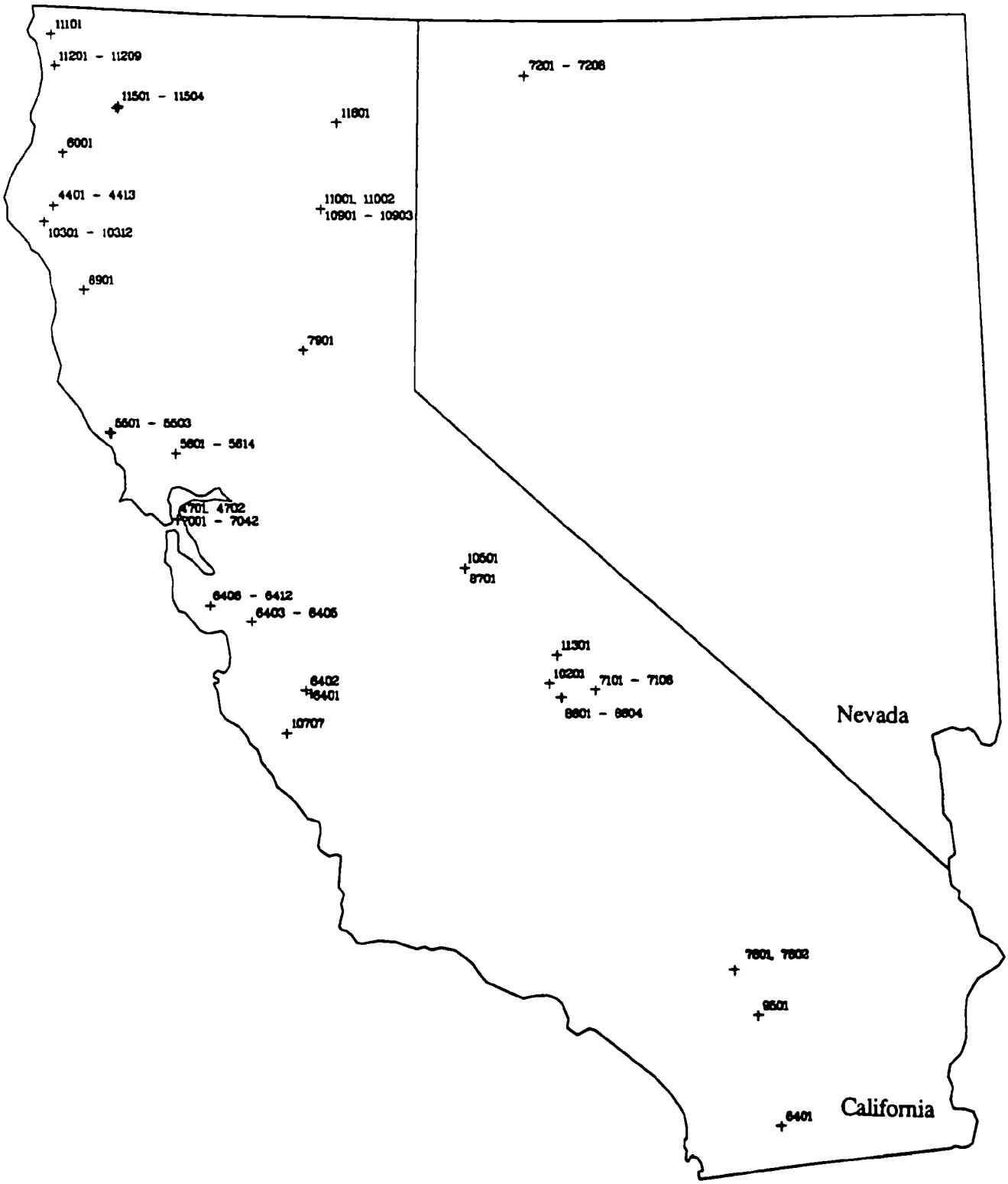


Fire History Database Site Locations

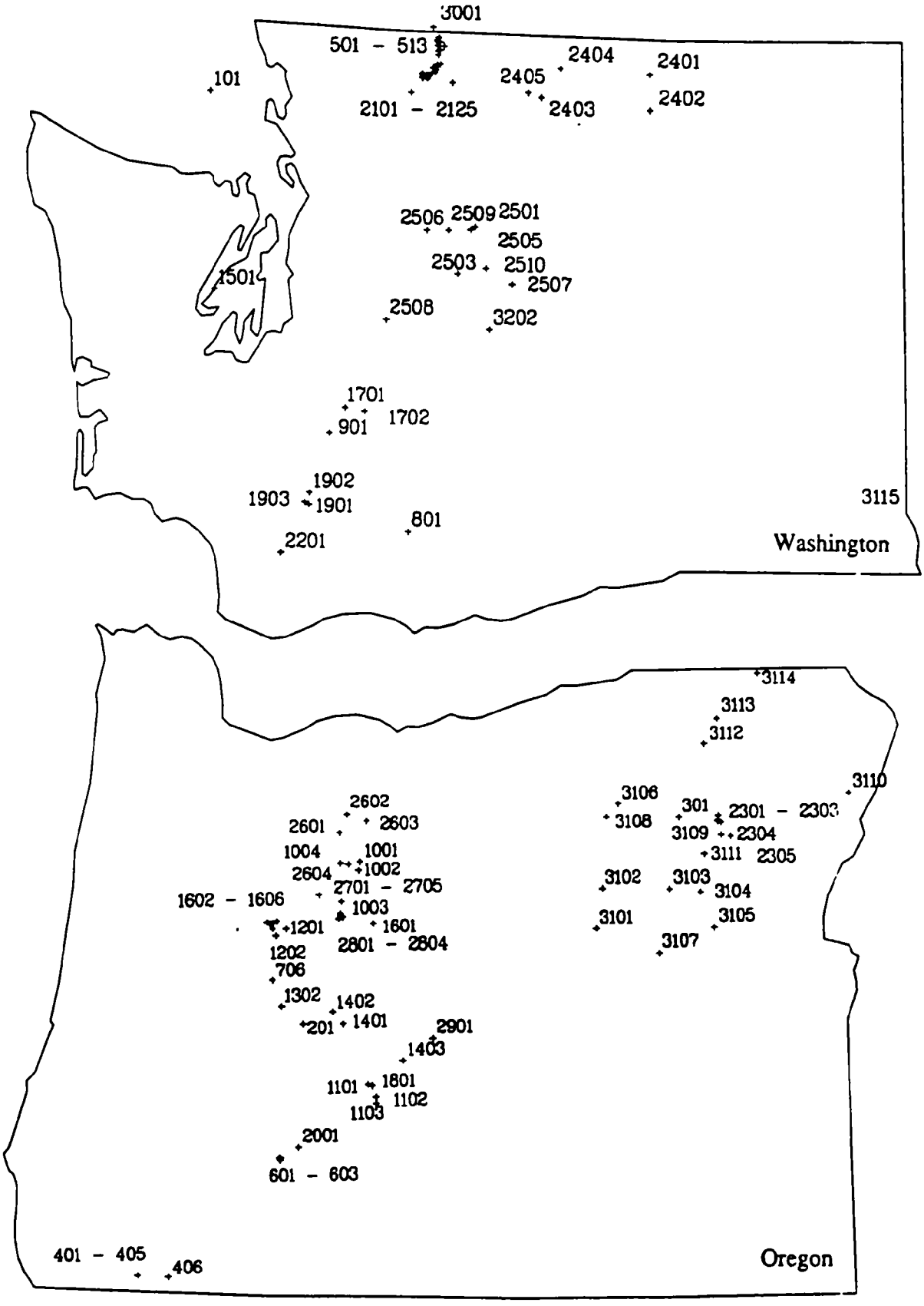




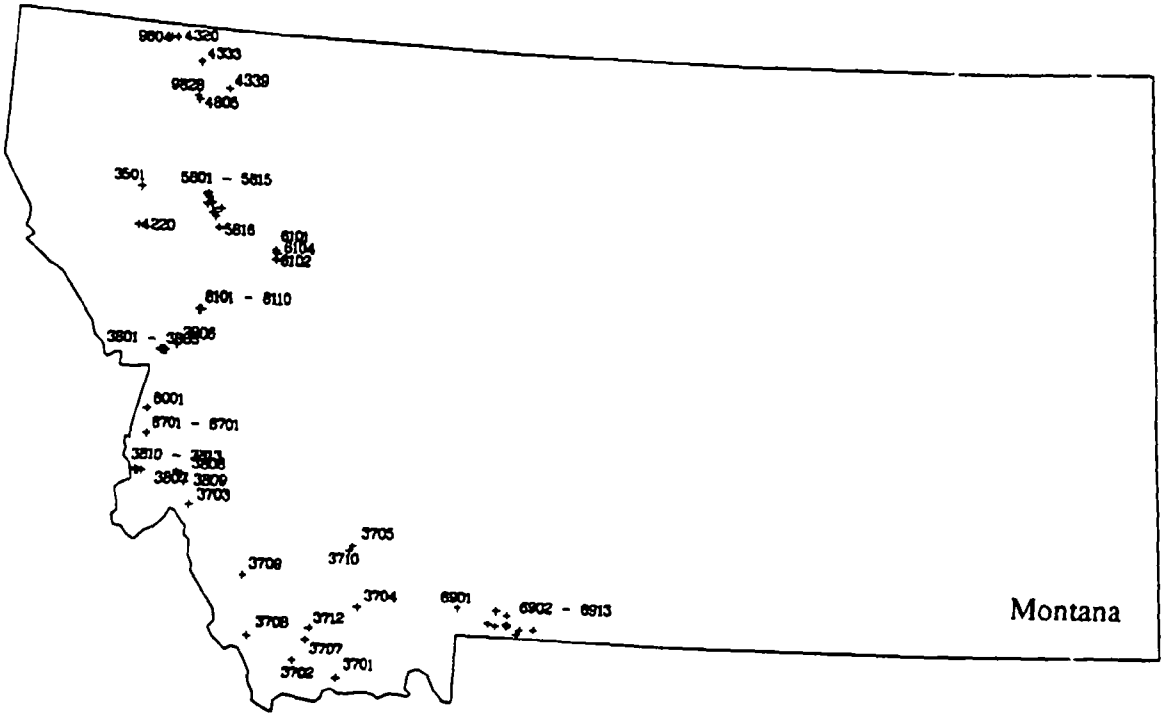
Fire History Database Site Locations

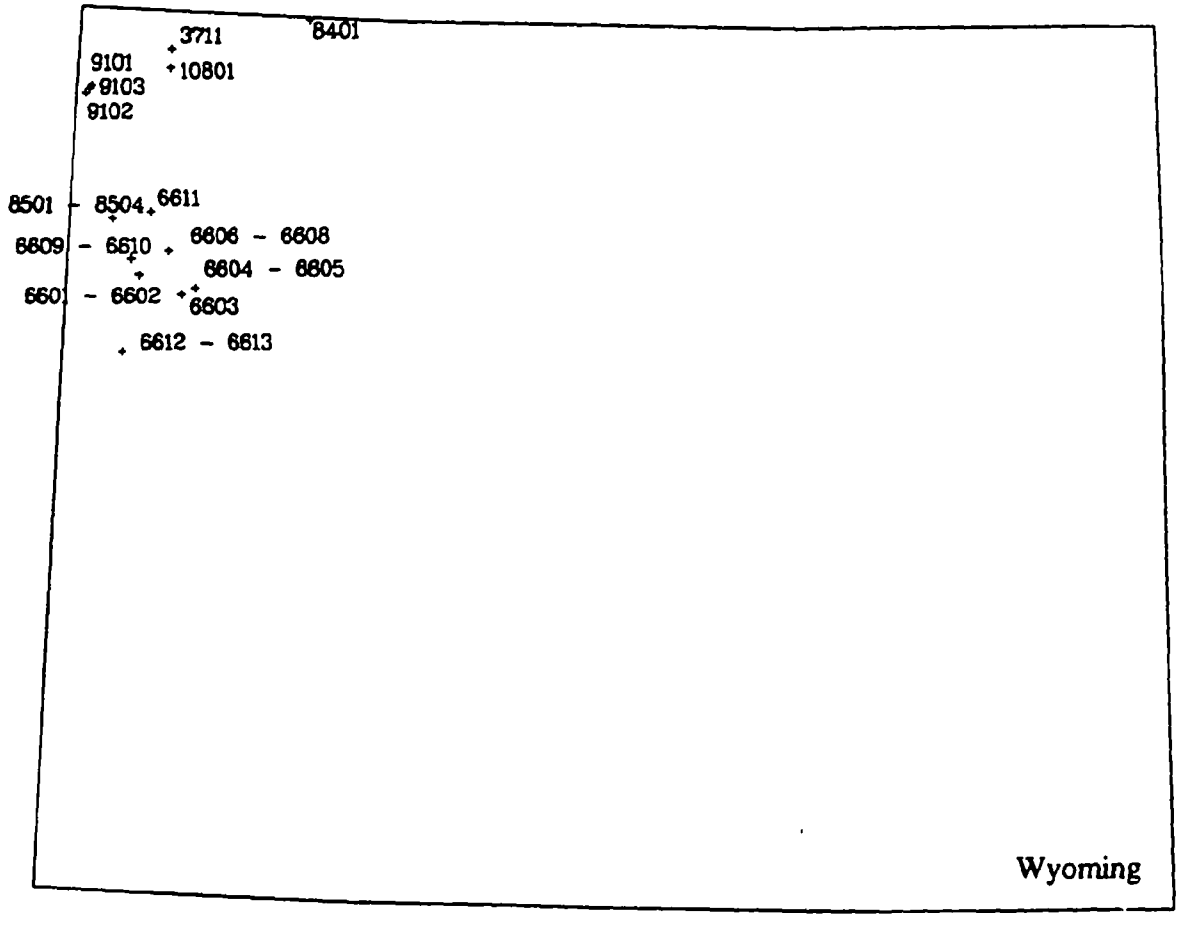


Fire History Database Site Locations

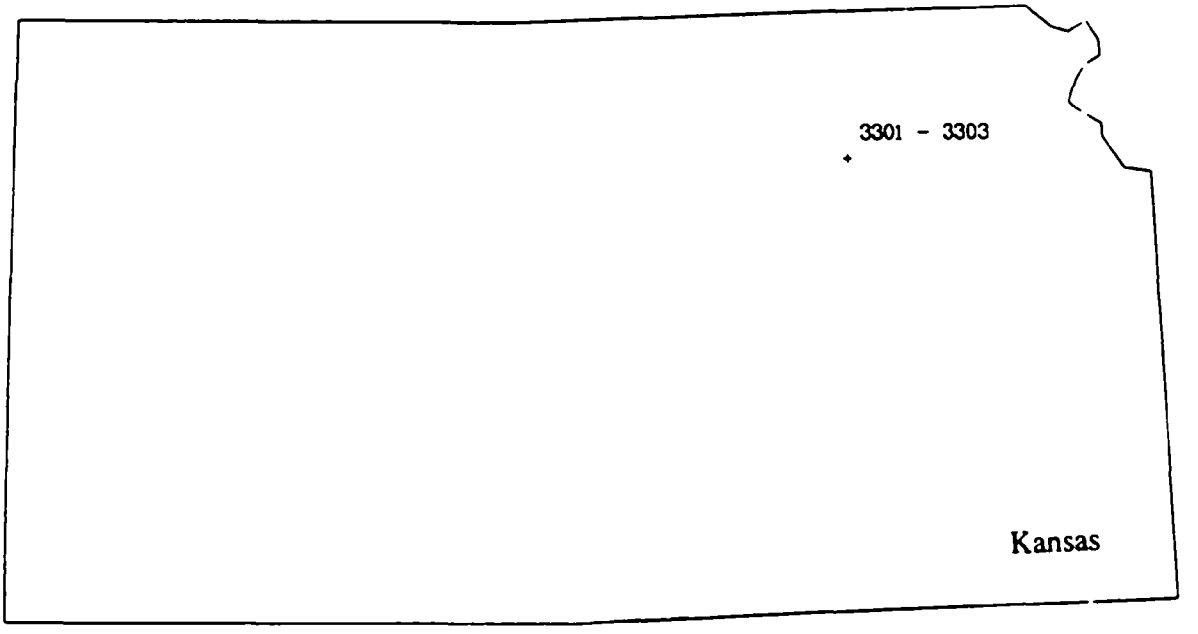


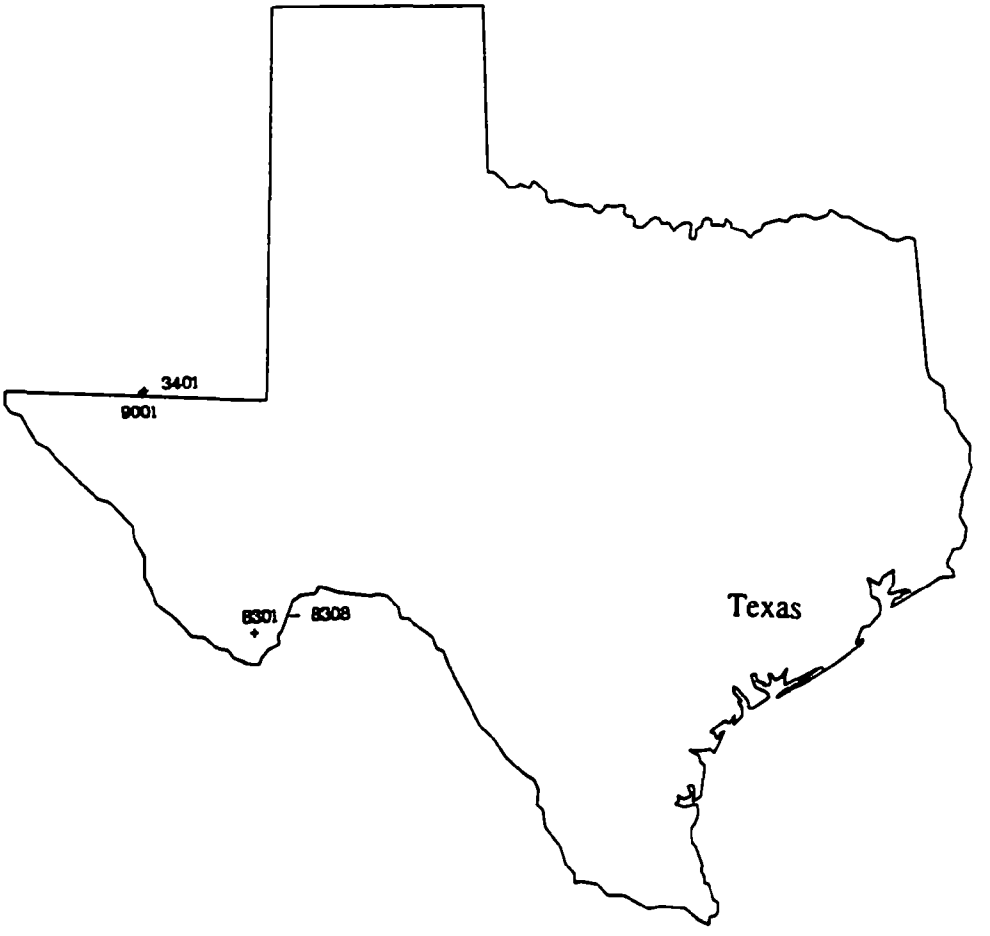
Fire History Database Site Locations



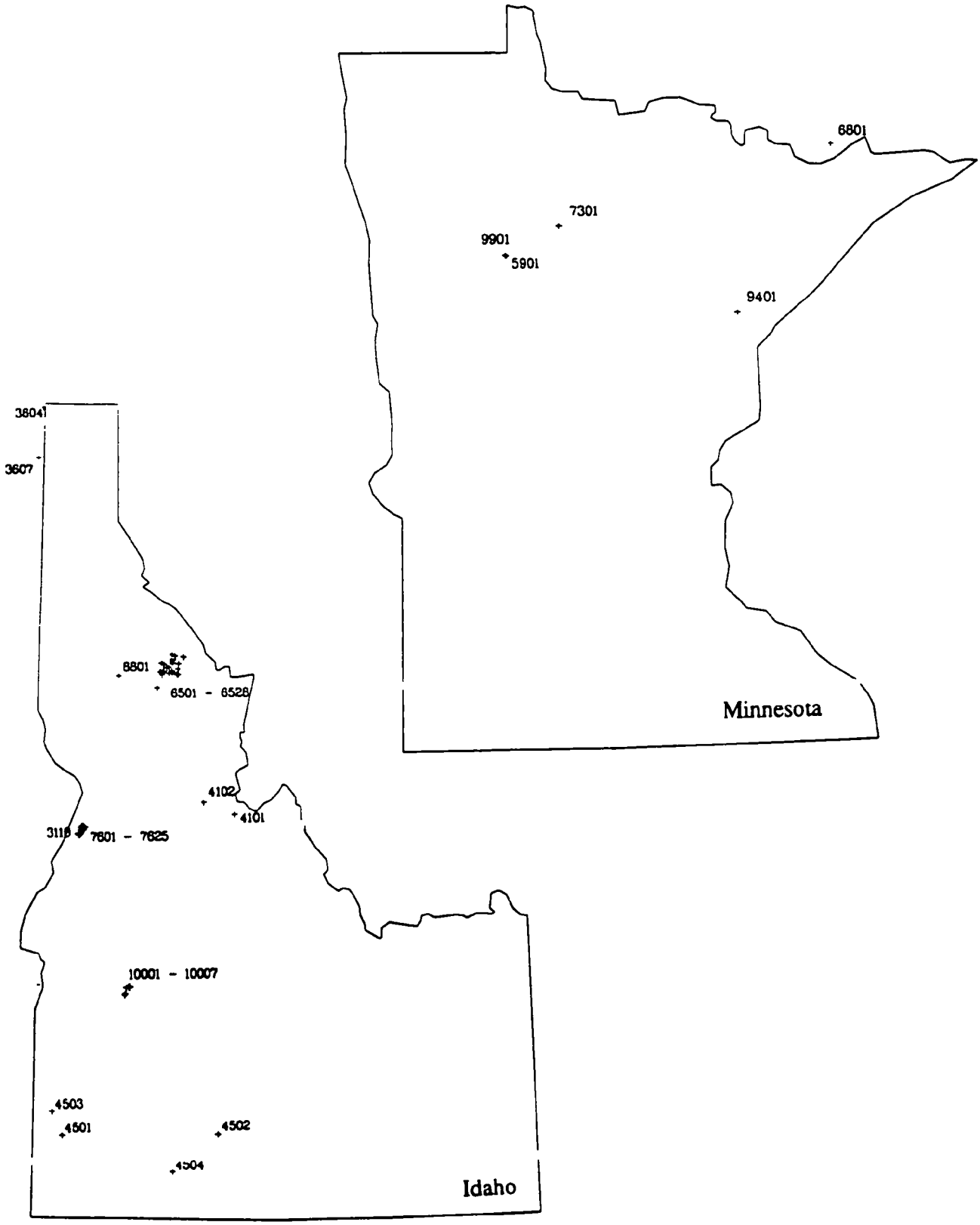


Fire History Database Site Locations





Fire History Database Site Locations

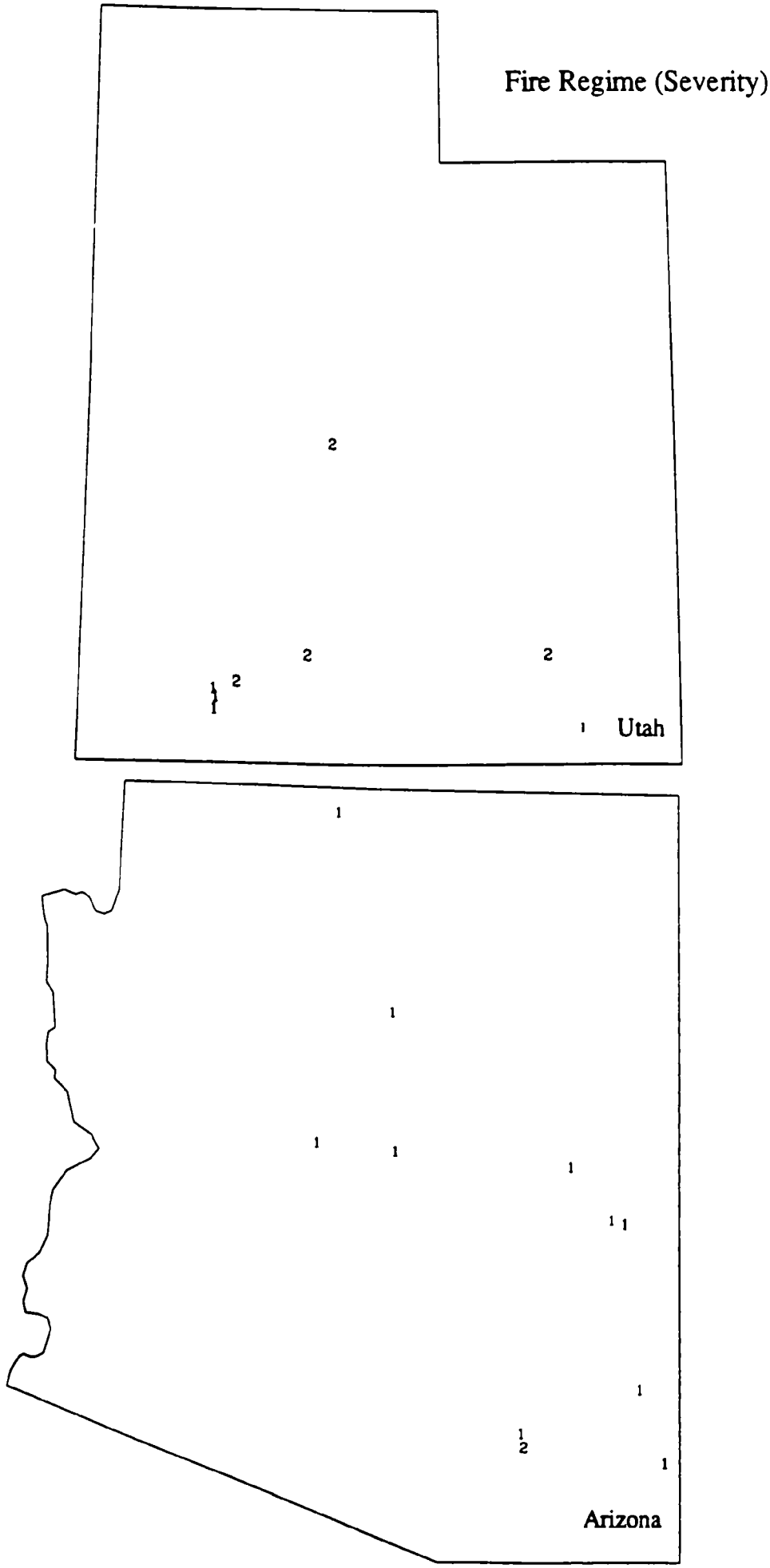


APPENDIX F: MAPS OF FIRE REGIME (SEVERITY) BY STATE

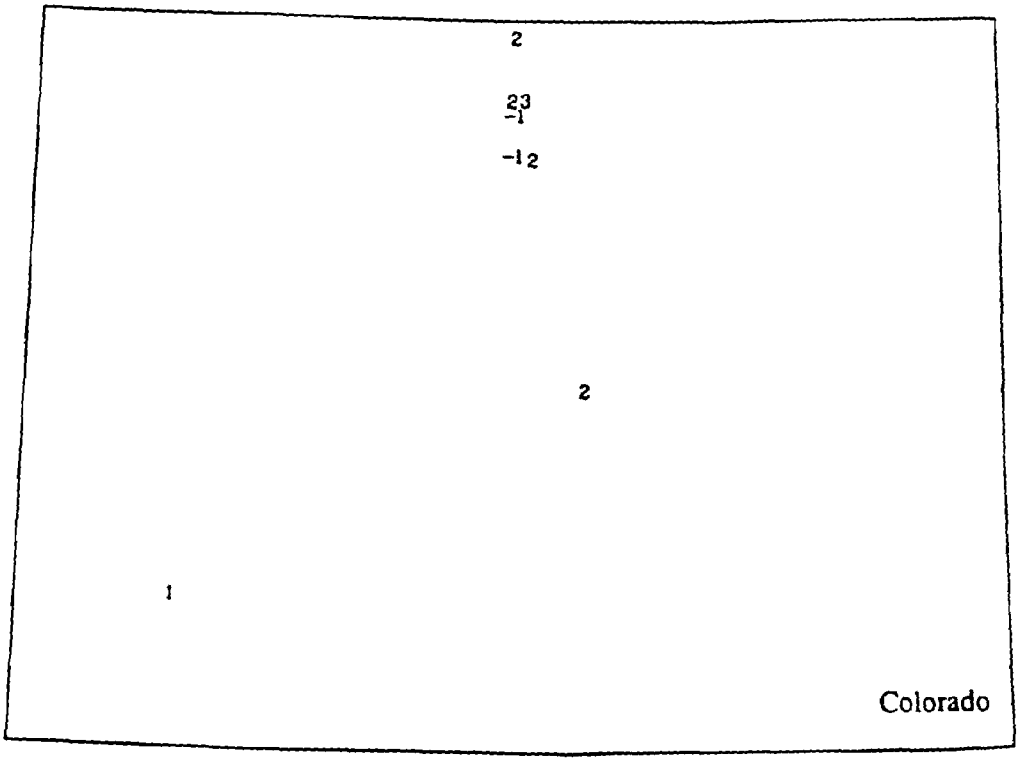
The maps in this appendix display fire regimes based on fire severity.

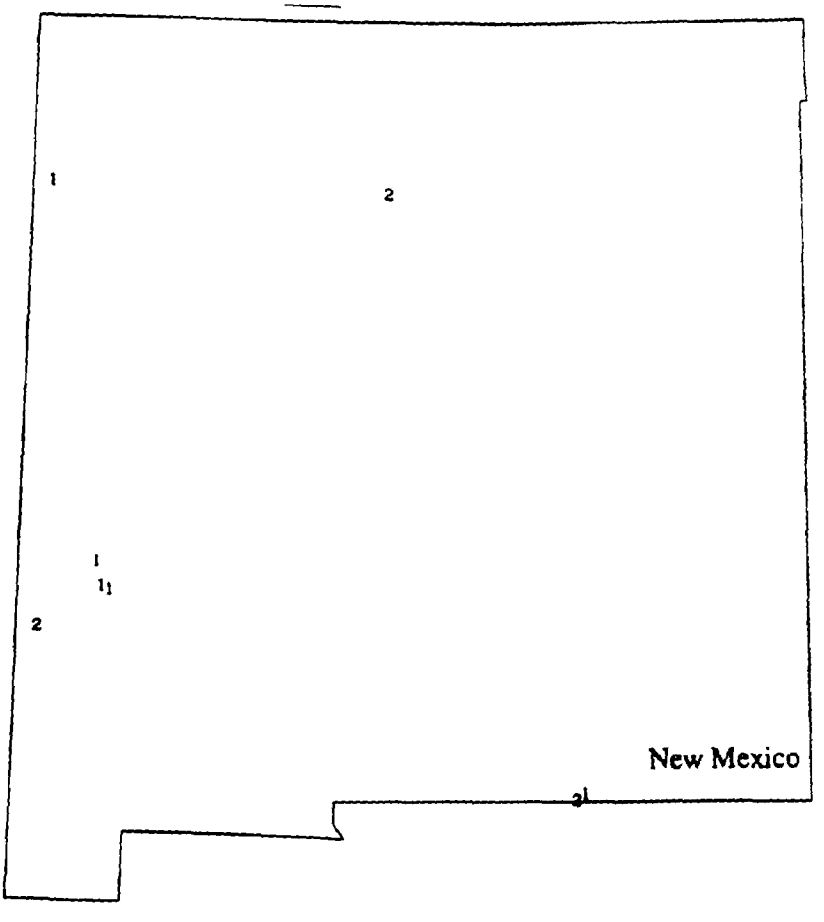
Explanation of map symbols:

-1	No data
1	Low severity
2	Moderate severity
3	High severity


Fire Regime (Severity)
Utah
Arizona

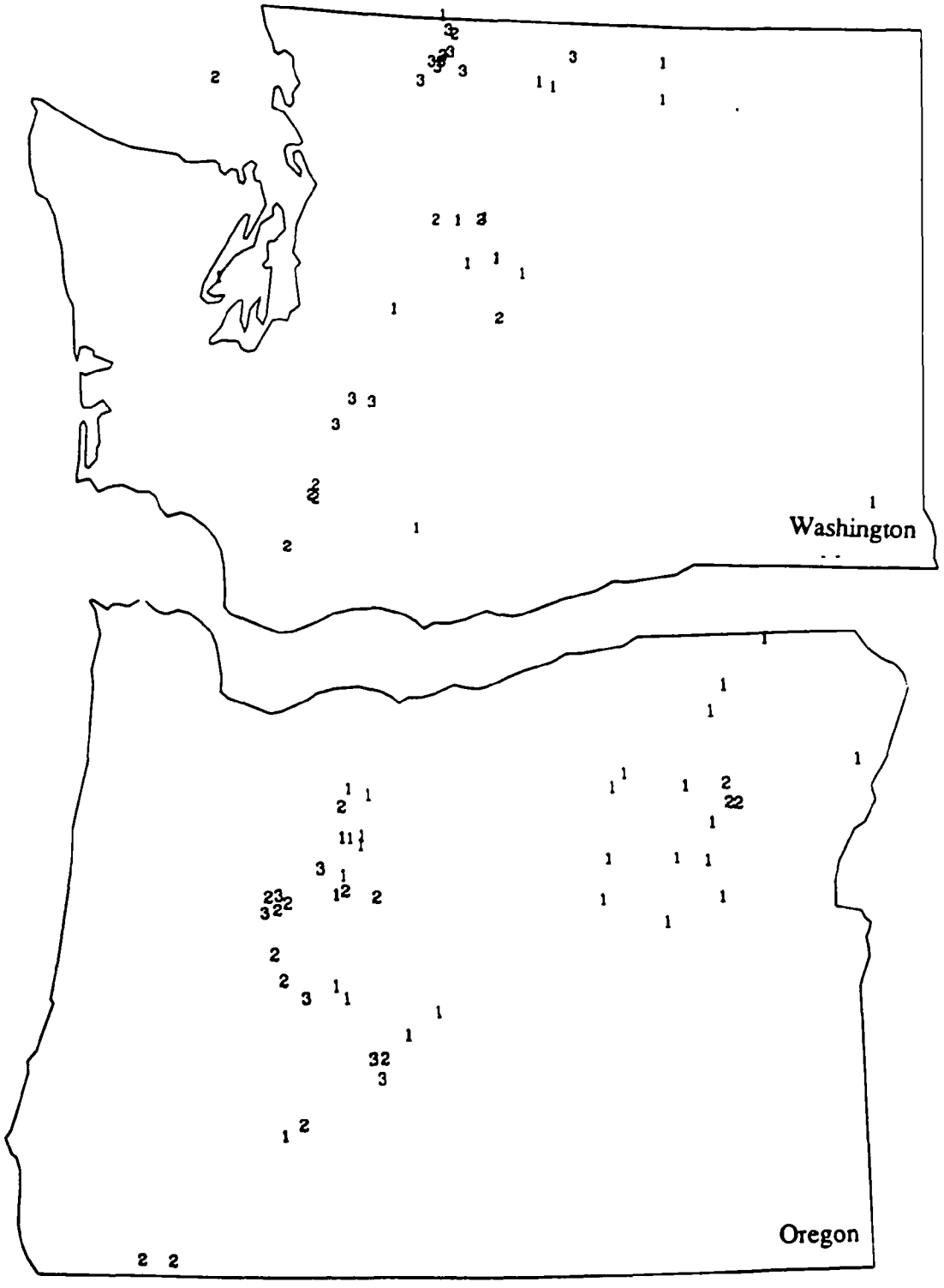
Fire Regime (Severity)



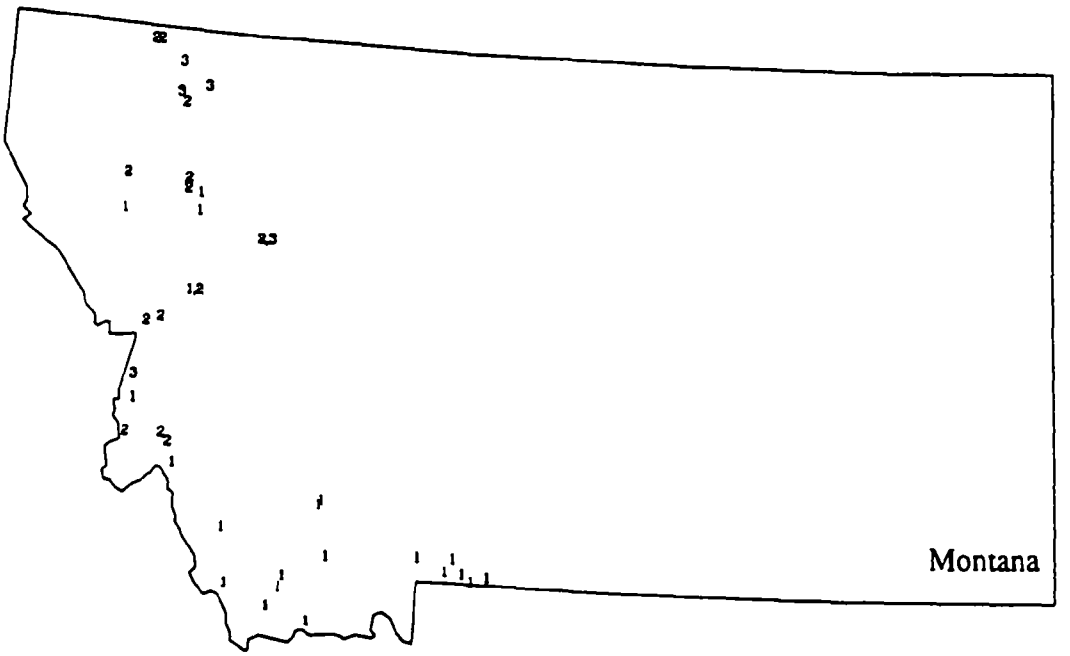


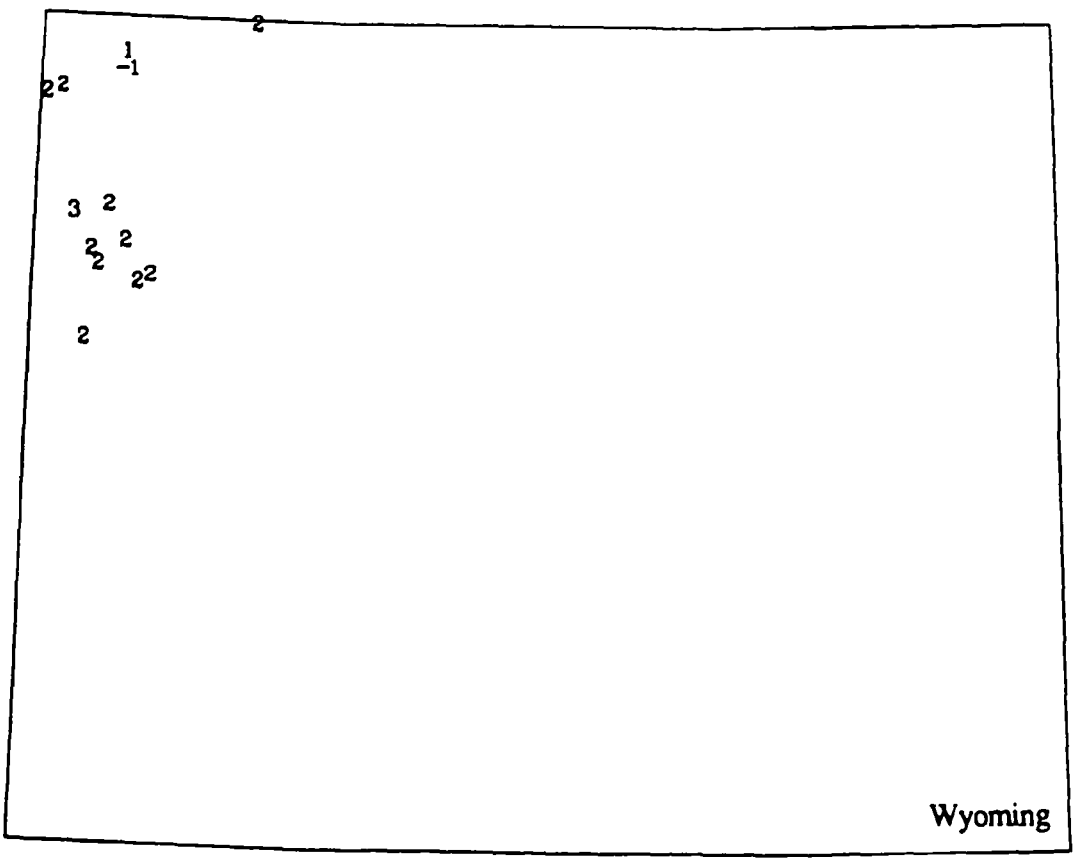
Fire Regime (Severity)

Fire Regime (Severity)

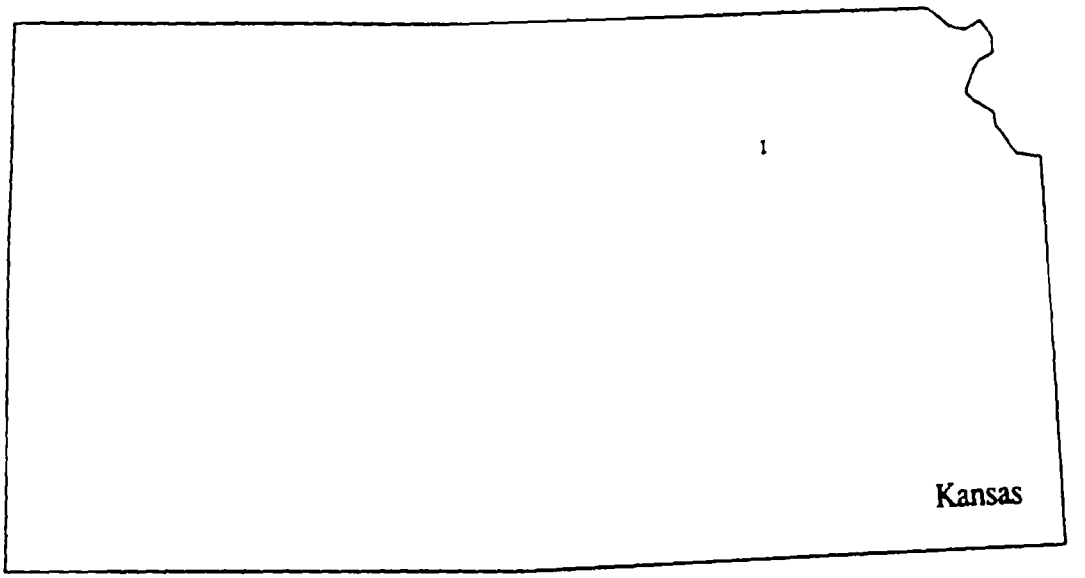


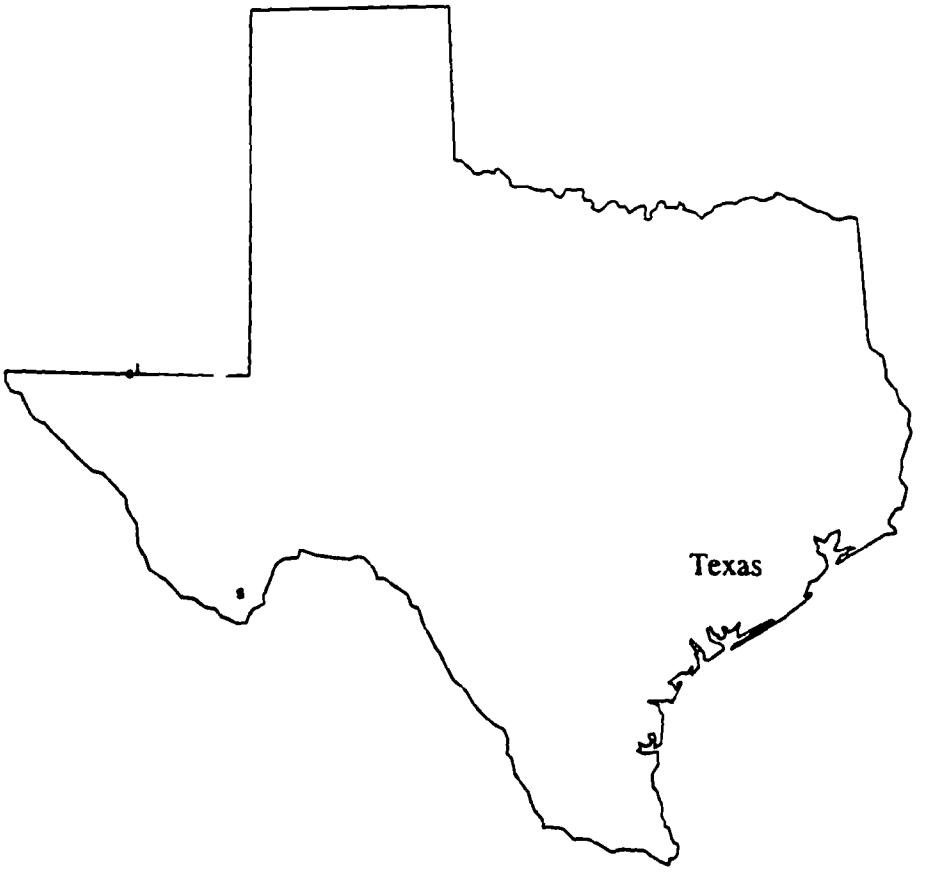
Fire Regime (Severity)





Fire Regime (Severity)





Fire Regime (Severity)

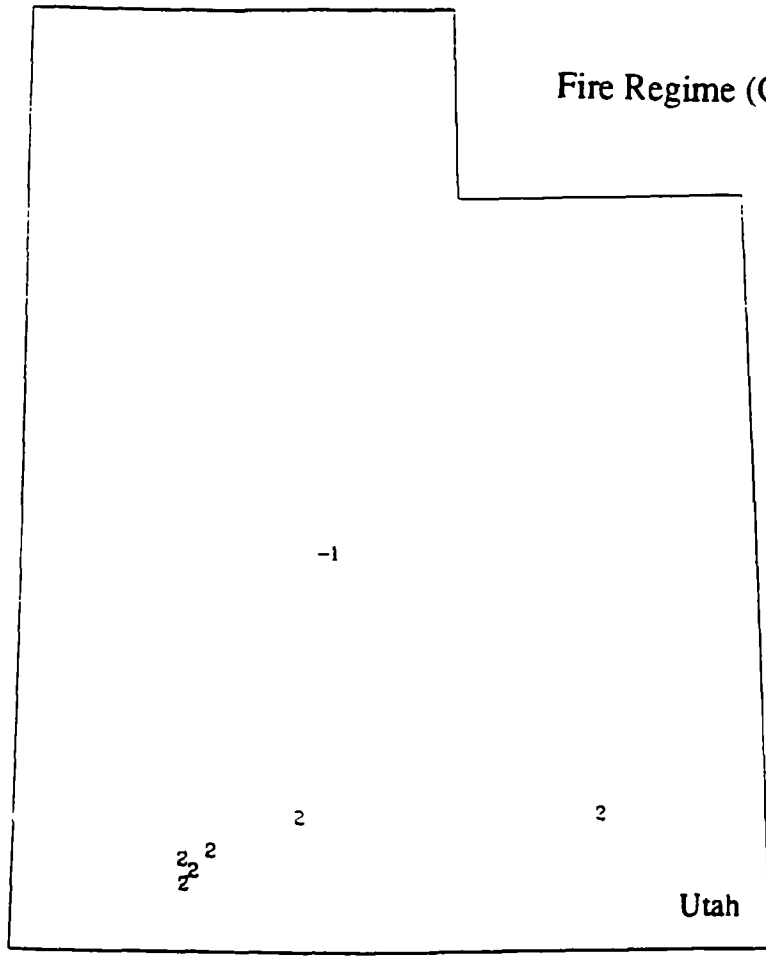
APPENDIX G: MAPS OF FIRE REGIME (CHARACTERISTICS) BY STATE

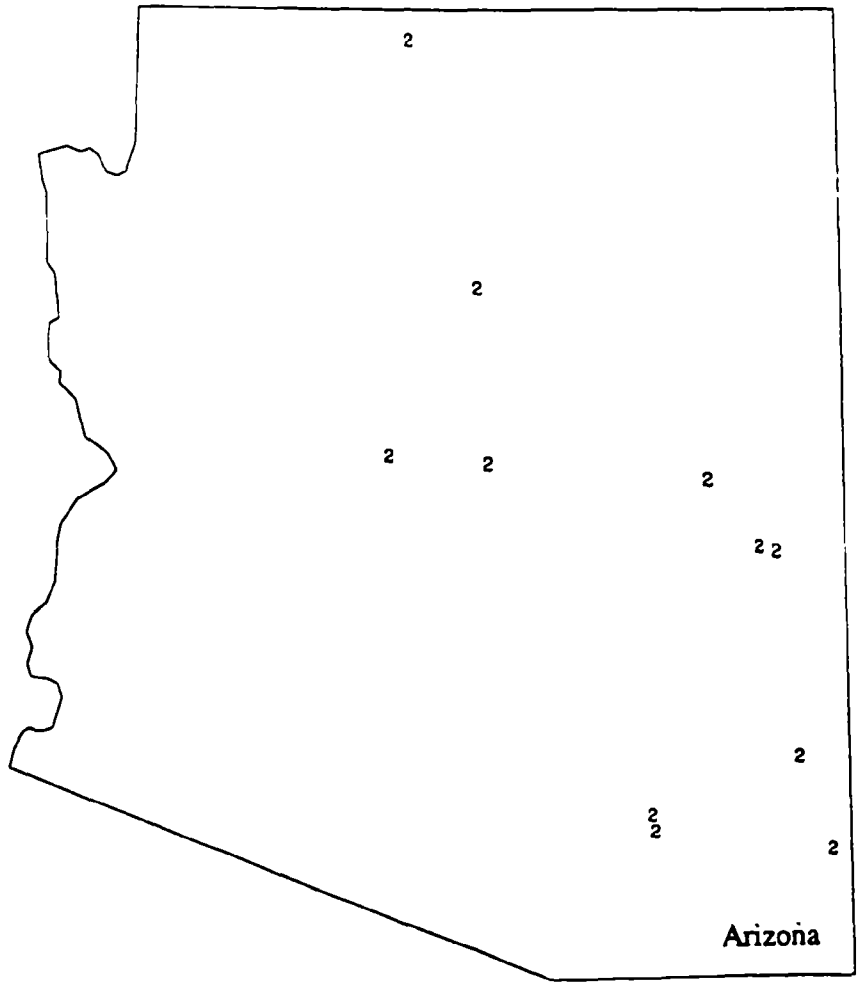
The maps in this appendix display fire regimes based on frequency and severity characteristics (Heinselman 1973).

Explanation of map symbols:

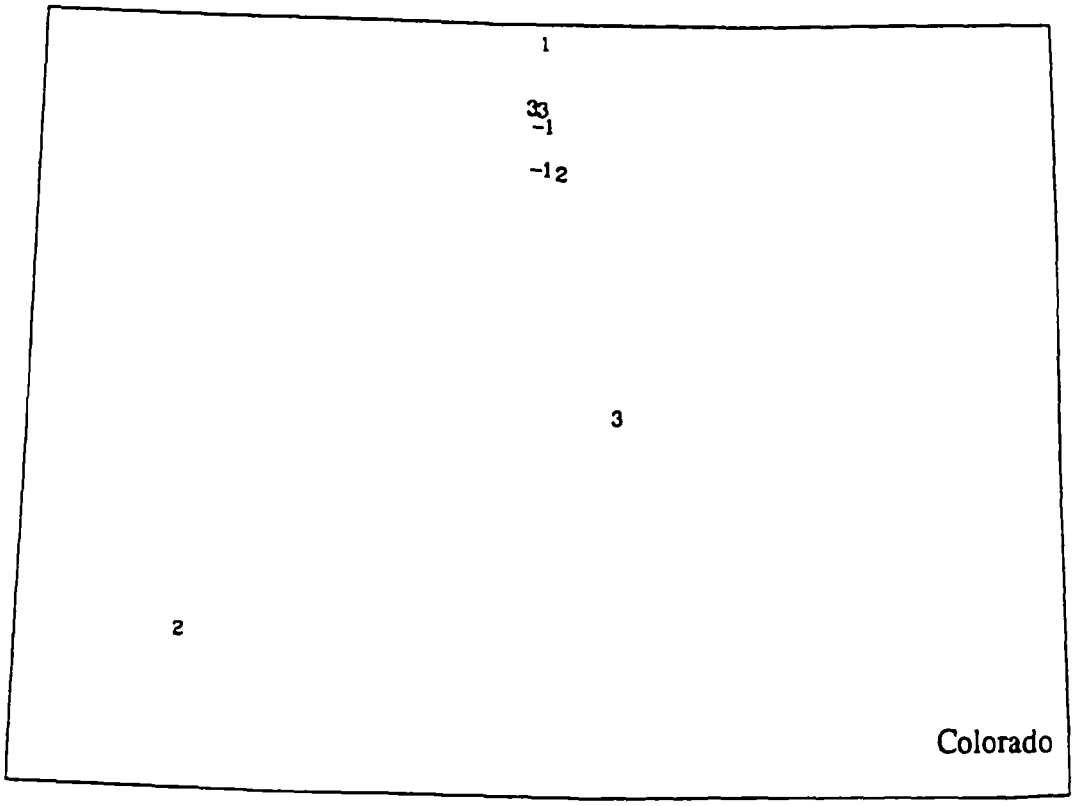
Fire regime number	Description of the regime
-1	No data
0	No natural fire (or very little)
1	Infrequent light surface fires (more than 25 year intervals)
2	Frequent light surface fires (1-25 year return intervals)
3	Infrequent, severe surface fires (more than 25 year return intervals)
4	Short return interval crown fires (25-100 year return intervals)
5	Long return interval crown fires + severe surface fires (100-300 yr return intervals)
6	Very long return interval crown fires+severe surface fires (> 300 yr return intervals)

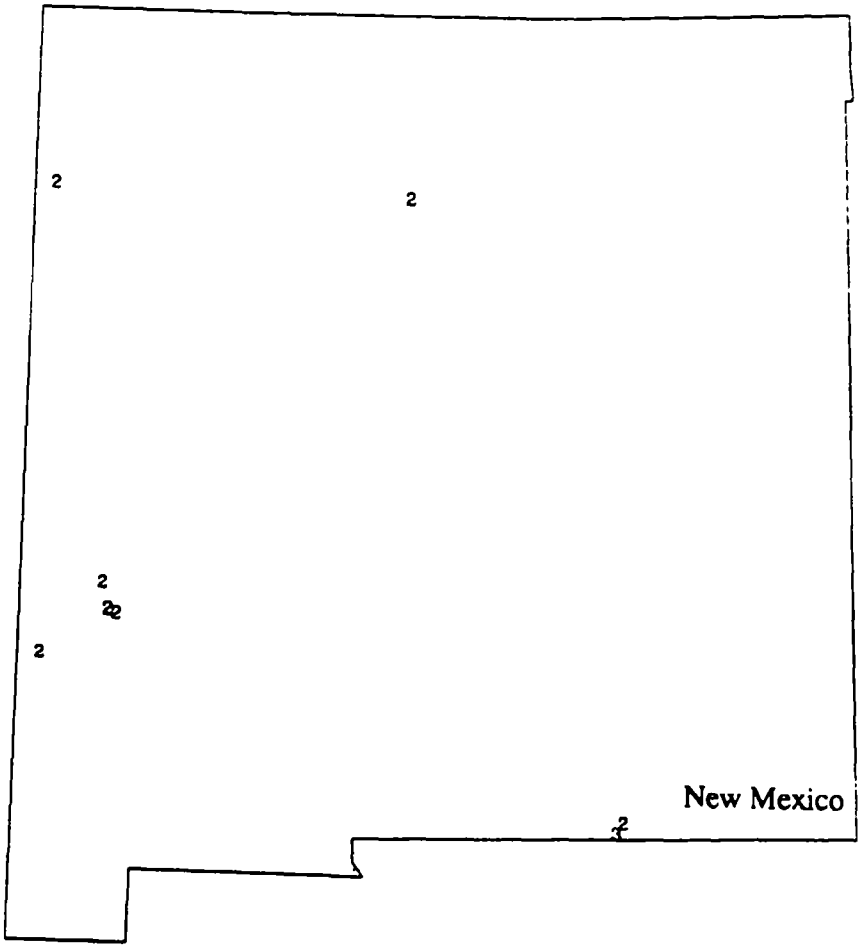
Fire Regime (Characteristics)





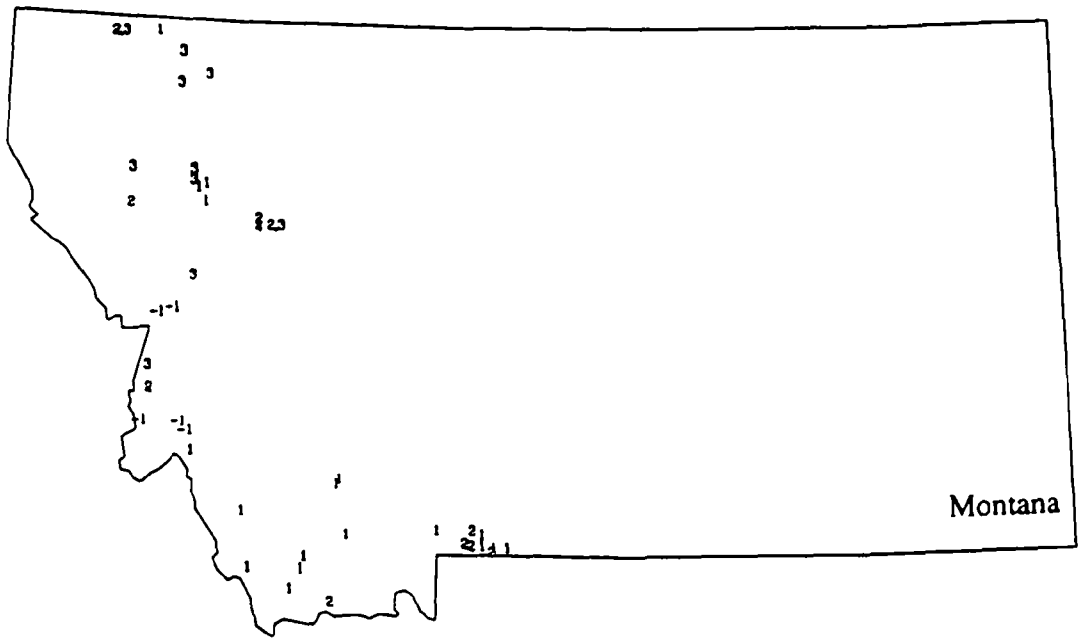
Fire Regime (Characteristics)

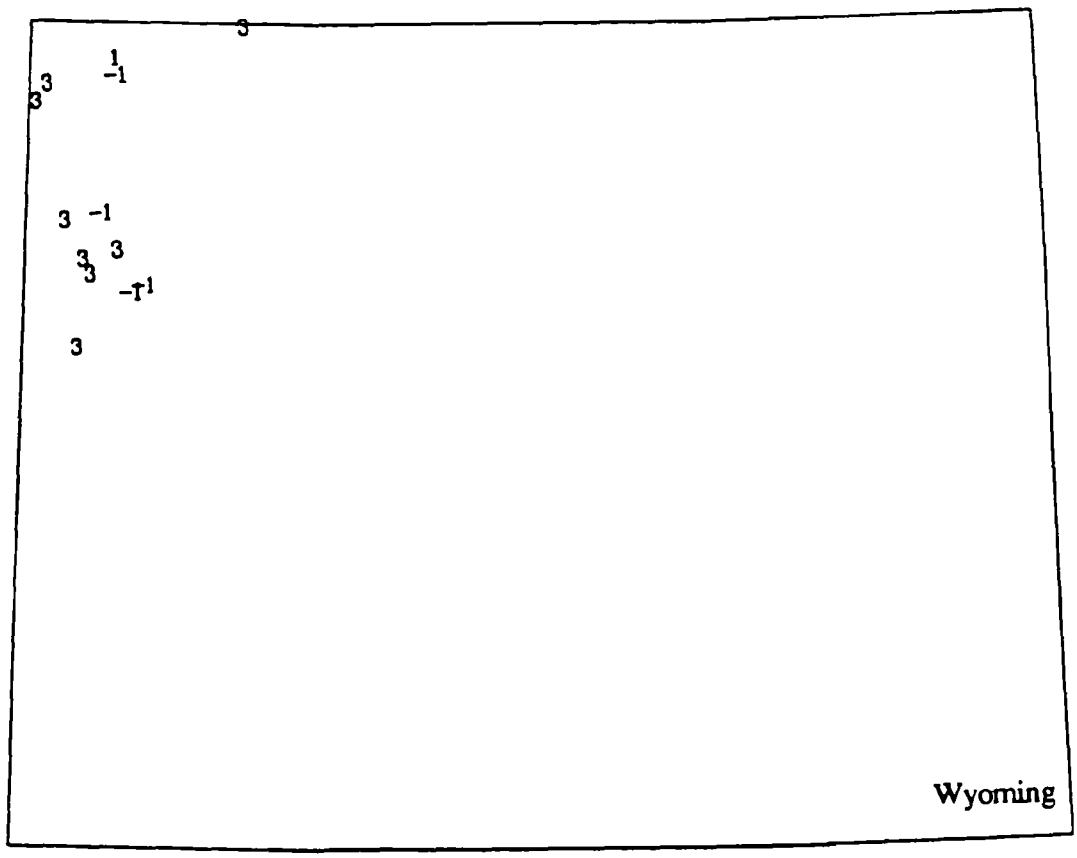




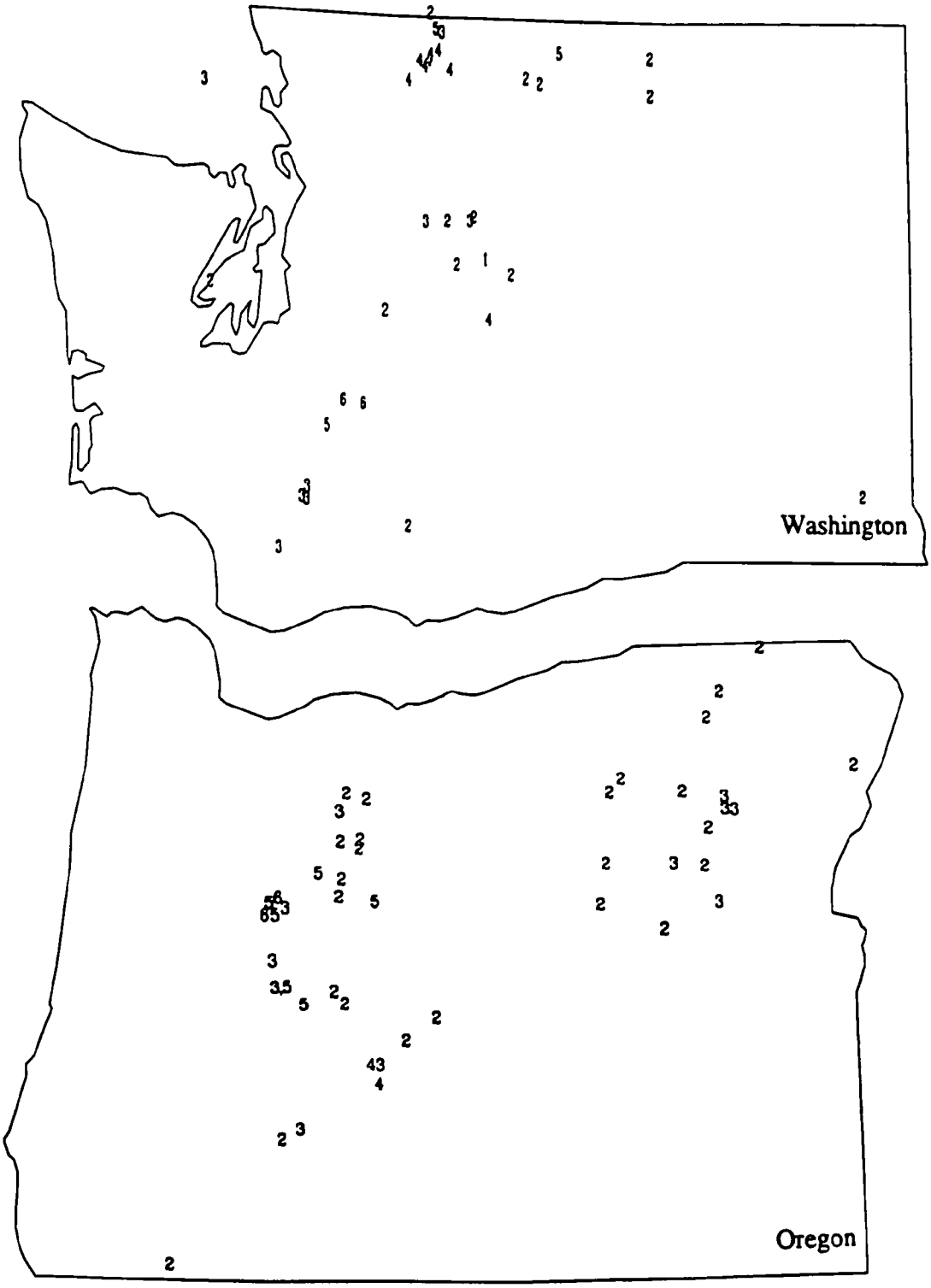
Fire Regime (Characteristics)

Fire Regime (Characteristics)

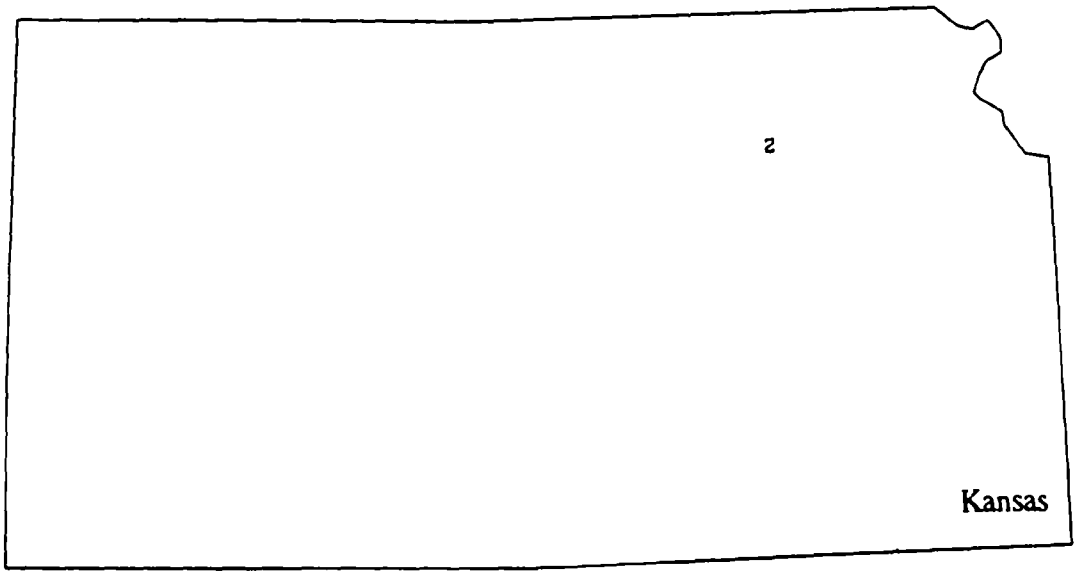


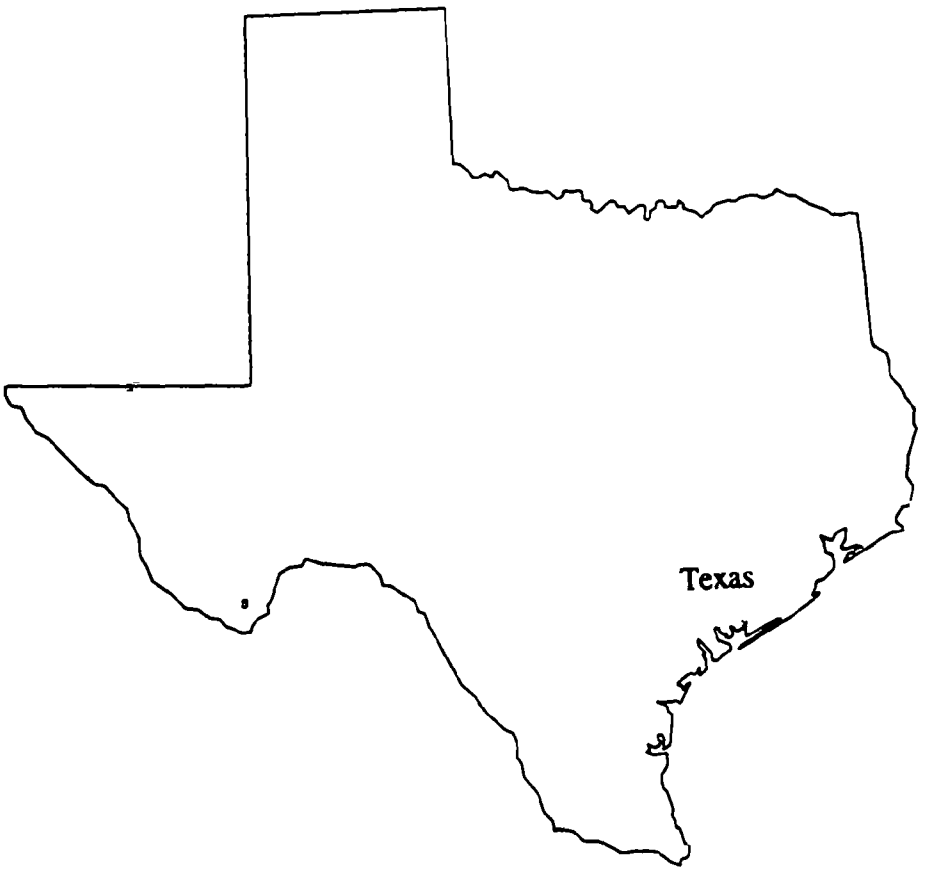


Fire Regime (Characteristics)



Fire Regime (Characteristics)





Fire Regime (Characteristics)