

A black and white photograph of a forest with tall, straight trees, likely pines, standing in a row. The ground is covered with low-lying vegetation and fallen needles. The text is overlaid on the upper portion of the image.

Management Implications of Altered Fire Regimes and Changes in Forest Structure on East Side Pine Forests

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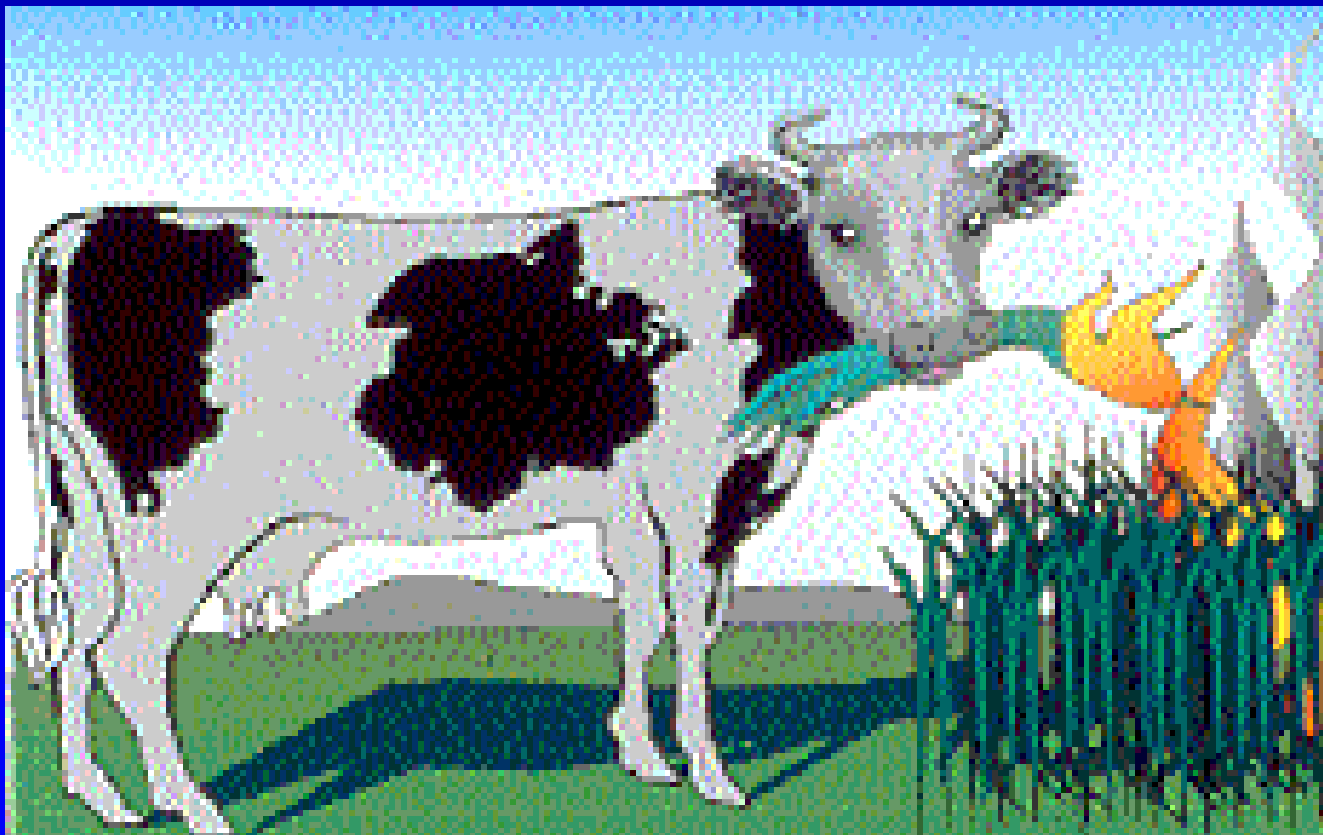
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Livestock Grazing



Fire Eating Livestock



Documentary Evidence

“There are practically no grasses or other herbaceous plants. The forest floor is clean The writer can attest the inconvenience of this total lack of grass forage for in traveling over nearly 3,000,000 acres not a single day’s feed for saddle and pack animals was secured on the open range”

The Original Fire Engine

Fire Suppression



Documentary Evidence

Written Materials

“The forest is of the yellow pine type with a preponderance of fir...

The damage by fire on this township has been due mostly to ground fires, and is evident on the entire area examined.”

Survey of the Lassen Forest Reserve, Potter 1904, T 30 N R 3 E

Documentary Evidence

Written Materials

“There are from 20 to 25 trees per acre over 20” DBH.”

	<u>Avg. DBH</u>	<u>Max DBH</u>
P.P.	32	60
S.P.	34	72
W.F.	34	60
D.F.	36	60
I.C.	26	50









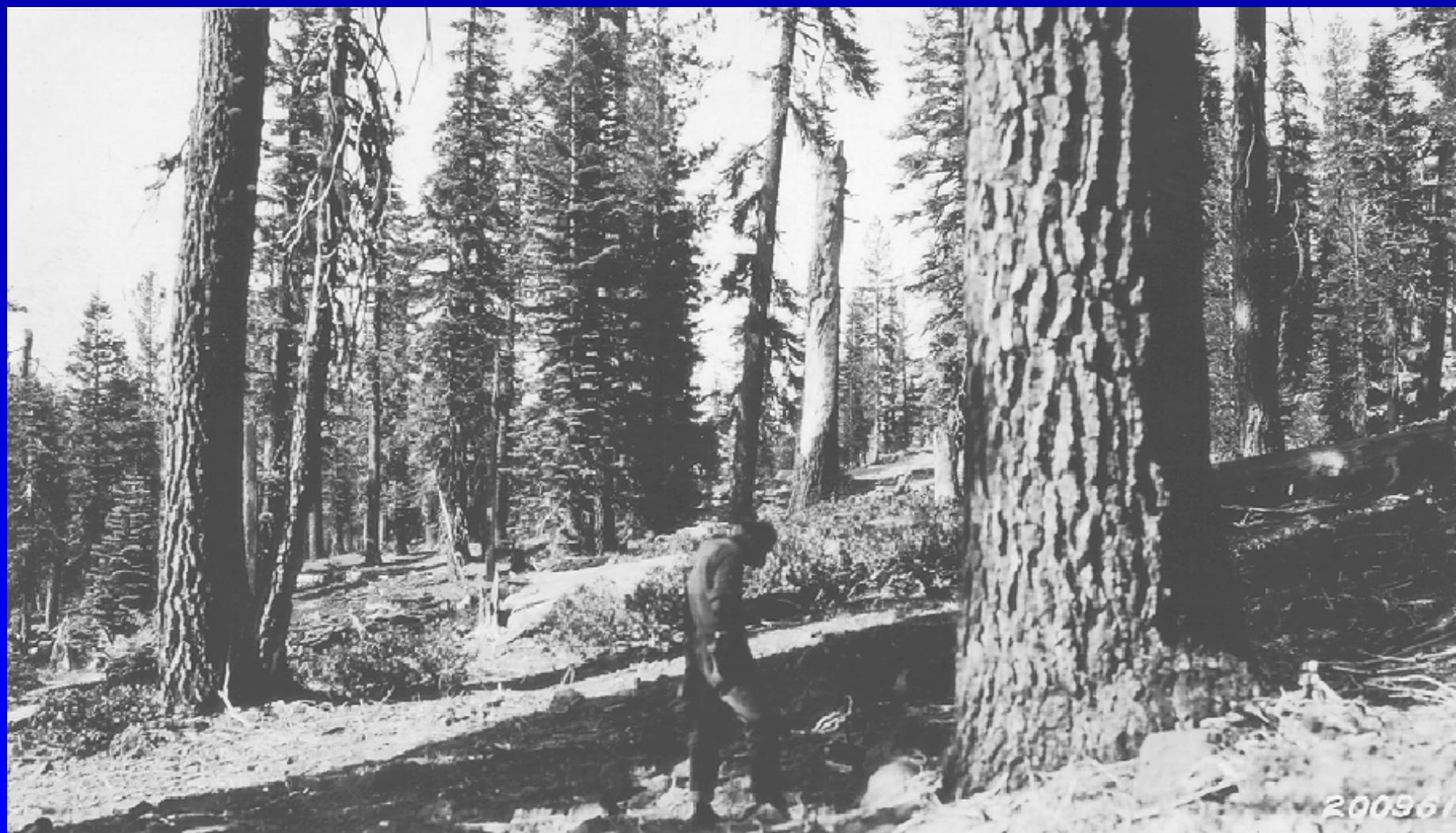






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15/11/11

10/11/11

33 Fire Scars







1977

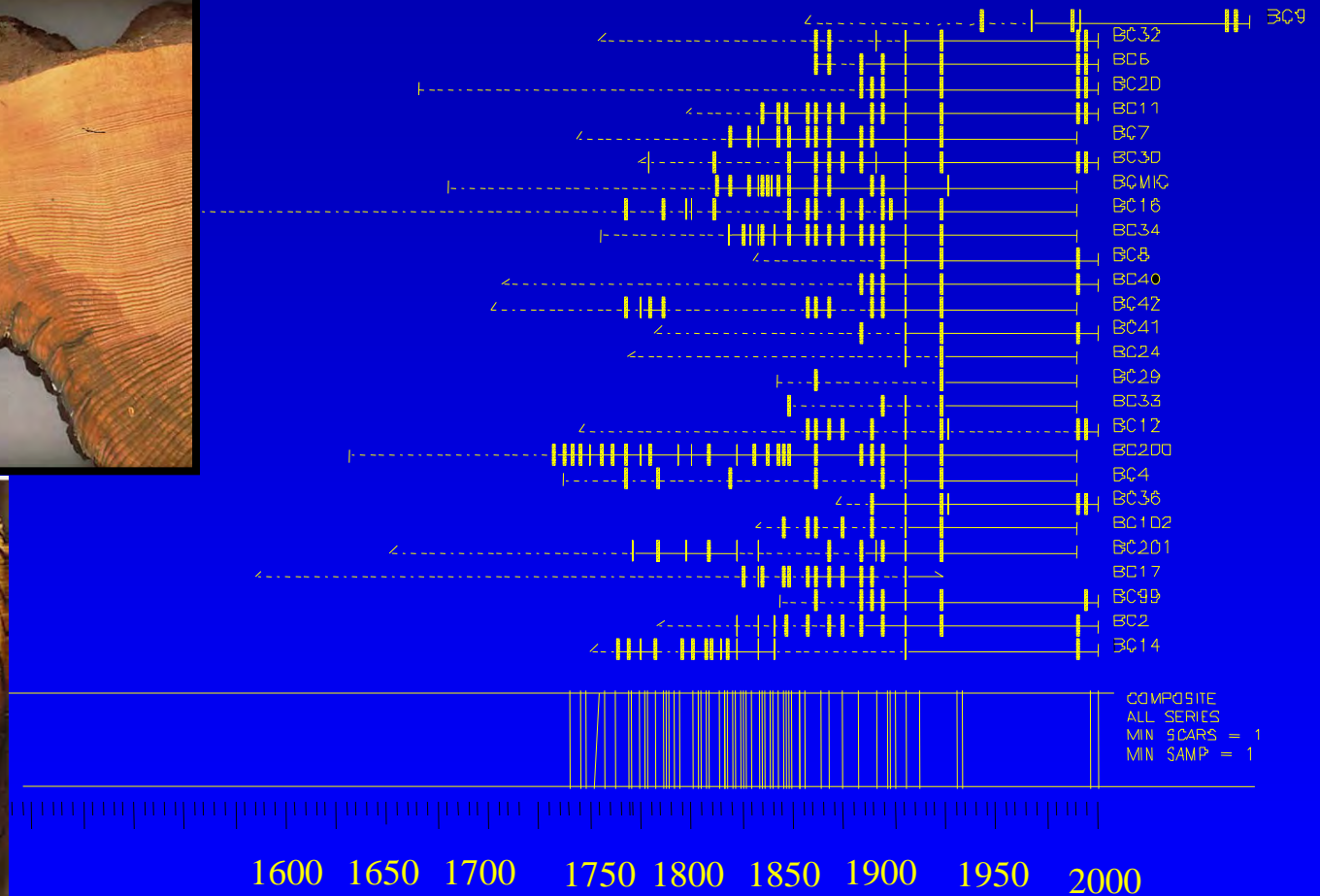
1985-86

1990



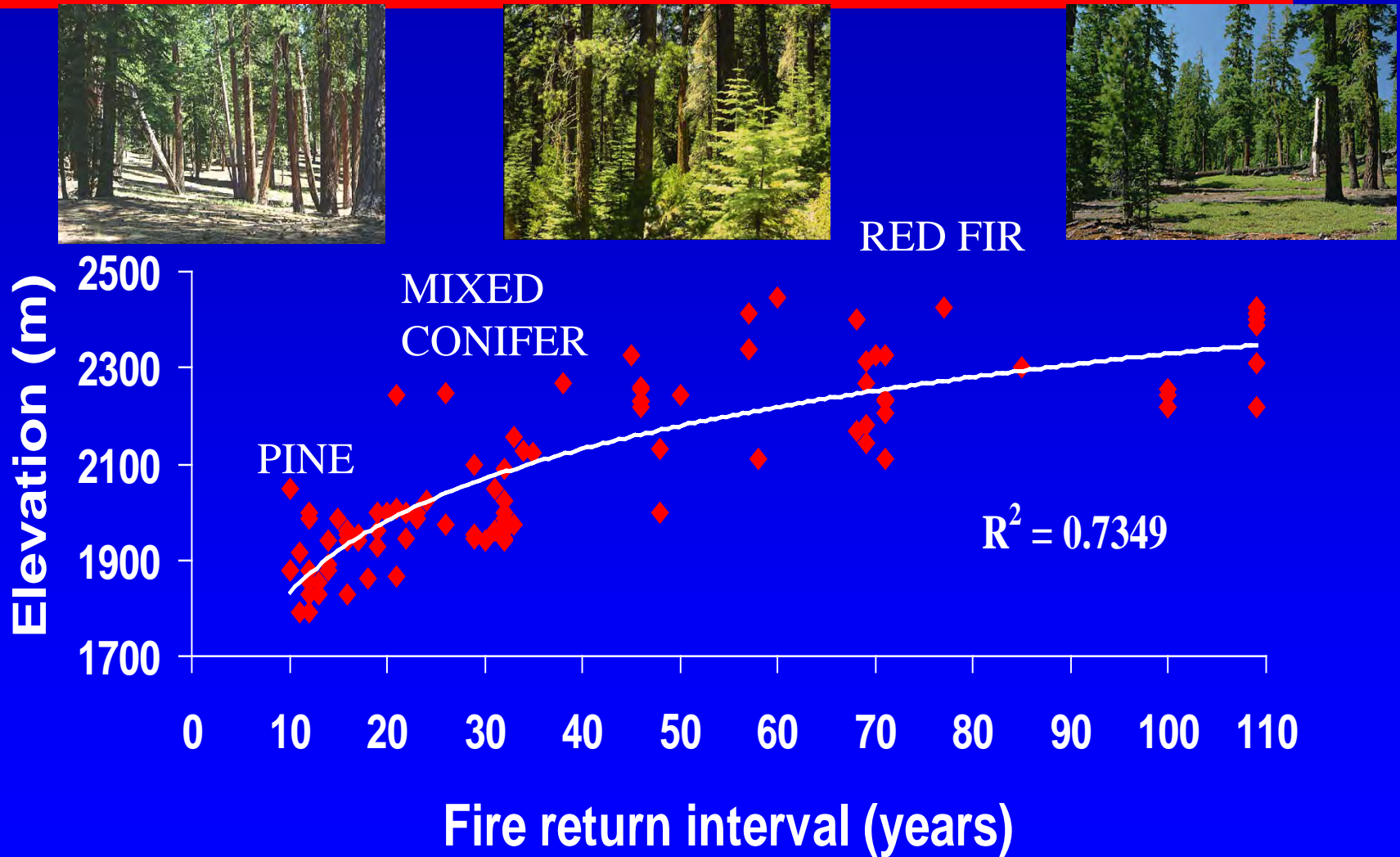
Ponderosa Pine Fire Frequency

Southern Cascades





Elevation and Fire Return Interval



Projected Burn Area 1905-2010

Lassen National Forest

FOREST TYPE	BURN AREA (ha)	BURN AREA (Acres)
East side pine	437,187	1,079,851
Mixed Conifer-Fir	322,396	796,590
White fir	38,498	95,090
Red fir	48,092	118,787
Lodgepole pine	18,048	44,579
Total	864,221	2,134,627

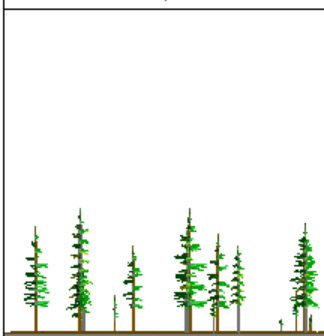
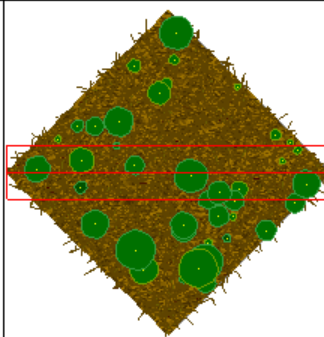
Forest Density Changes Since 1905

	Current (ha ⁻¹)	1905 (ha ⁻¹)
JEFFREY PINE FOREST		
Jeffrey pine	552	51
White fir	211	33
TOTAL	763	84
JEFFREY PINE-WHITE FIR FOREST		
White fir	983	43
Jeffrey pine	114	38
Total	1079	81

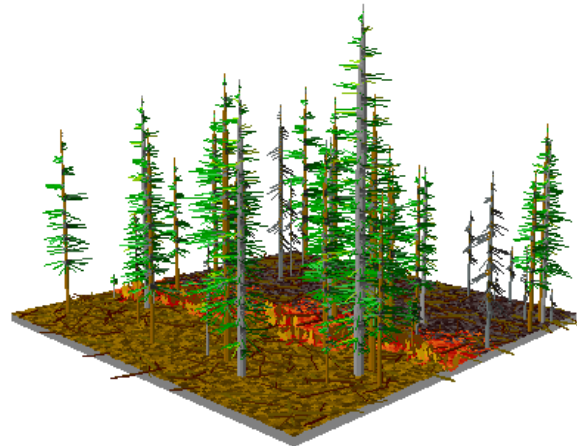
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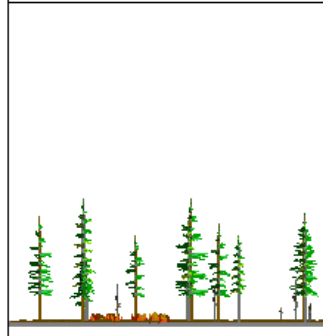
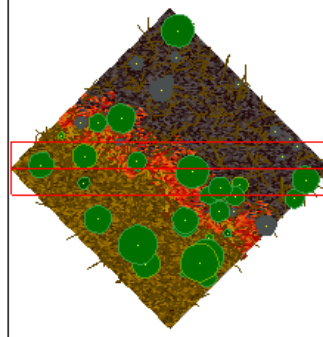
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Stand=1 Year=1873 Beginning of fire (01/03)

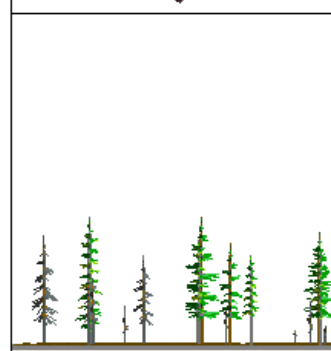
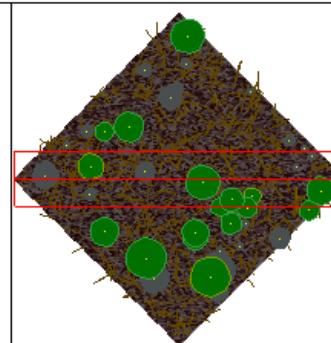
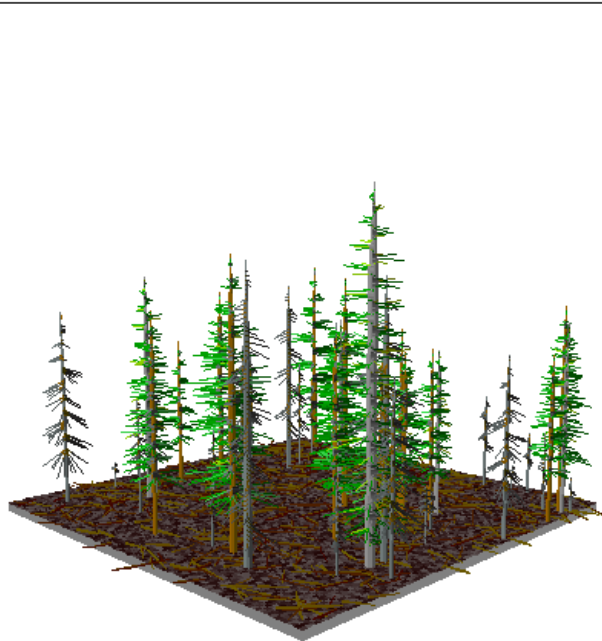


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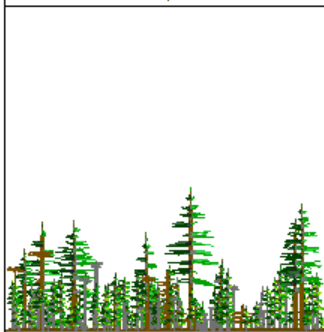
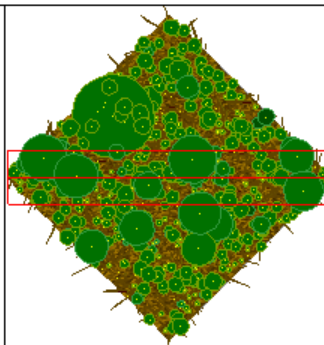
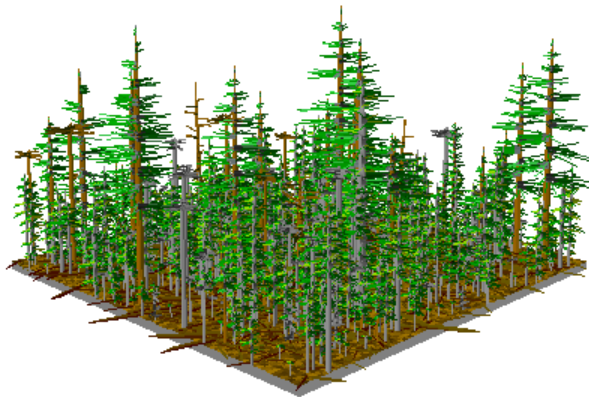
Stand=1 Year=1873 After the fire (03/03)

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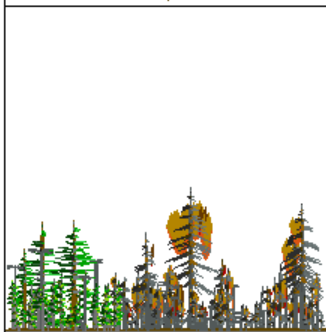
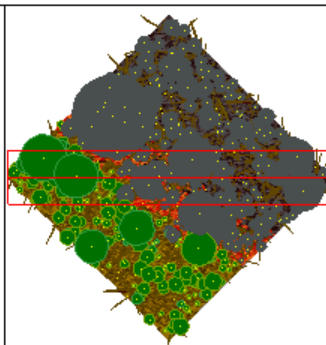
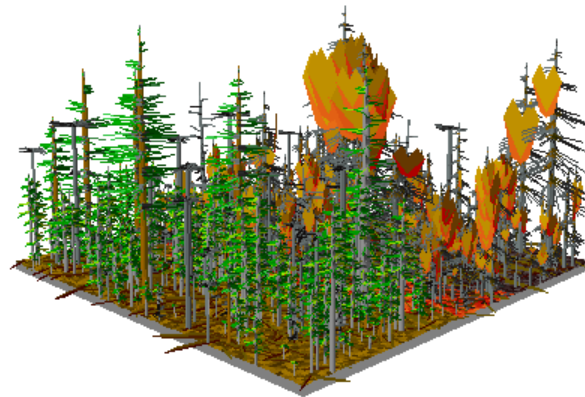
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spp1_2010_80percent_100mgmt_001.svs



Stand=100001 Year=2010 Beginning of fire (01/03)

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Stand=100001 Year=2010 After the fire (05/03)

spp1_2010_80percent_100mgmt_003.svs

