

Post-Fire Evaluation Guidelines for Forecasting Potential Insect and Disease Problems and Associated Tree Mortality

Stand: _____

Date: _____

1. Average Basal Root Damage: (See Page 2)

0 -25%
(Low)

26 – 50%
(Moderate)

>50
(Severe)

2. Average Stem Damage:

a. Relative Height of Stem Char

0 -25%
(Low)

26 – 50%
(Moderate)

>50
(Severe)

3. Average Crown Damage:

a. Percent Crown Scorch

i. *Dormant Season* (October 1 – February 28)

0 -25%
(Low)

26 – 50%
(Moderate)

>50
(Severe)

ii. *Growing Season* (March 1 – September 30)

0 -25%
(Low)

26 – 50%
(Moderate)

>50
(Severe)

b. Terminal Bud Mortality (“Shepherd’s Crooked”)

Absent
(Low)

Present
(Severe)

4. Sign and symptom of insect attacks (e.g., pitch tubes or boring dust from bark beetles, boring dust from Ambrosia beetles, oviposition pits or excelsior from wood borers, etc.)

Absent
(Uncertain)

Present
(Severe)

5. Note that the effects of multiple damages are somewhat additive.

For example: Moderate Crown Scorch + Moderate Stem Char + Moderate Basal/Root Damage, likely equal a severe probability of insect infestation and tree mortality.

Overall Rating: _____

Survey Conducted By: _____

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Fire Damage Rating Matrix for Basal and Root Portion of Trees			
	DAMAGE		
Indicator	Light	Moderate	Severe
Lower Bole	Bark partially charred, a side or plate only	Bark completely charred, all sides plates and fissures	Bark completely charred and noticeable consumed
Ground Substrate	Litter charred to partially consumed, remains recognizable; upper duff burned to partially consumed	Litter mostly to entirely consumed; duff partially consumed, feeder roots burned in duff layer	Litter and duff entirely consumed, leaving ash or exposed mineral soil, and crater effects around roots
Roots	Concealed, not evident	Slightly exposed and charring, particularly on one side or at the tree base, feeder roots burned in duff layer	Abundant exposure and charring to partial or complete consumption

Notes:
