

Pacific madrone (*Arbutus menziesii*) survey

Tree information **Check all that apply**

Site Name or number	Date

Number of stems larger than 5" (12 cm) diameter

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Height:

<input type="text"/>	< 10' (3m) (<1 story building)
<input type="text"/>	10' to 30' (3-9m) (1-3 story building)
<input type="text"/>	30' to 75' (9-23m)(3-7 story building)
<input type="text"/>	> 75' (>23m) (>7 story building)

Width:

Measure 4.5 feet (1.4 m) up from the tree's base.

If multiple trunks, estimate the average width of all trunks > 5" (12 cm) in diameter

<input type="text"/>	small	<12" (30 cm) (less than a ruler wide)
<input type="text"/>	medium	12" to 24" (30-60 cm) (1 to 2 rulers wide)
<input type="text"/>	large	24" to 36" (60 - 90 cm) (2 rulers to 1 yard stick wide)
<input type="text"/>	extra	>36" (90 cm) (wider than a yard stick)

% Crown

Estimate the height at which the branches begin to grow on the tree trunk

Estimate from the base of the tree.

<input type="text"/>	< 10' (3m) (<1 story building)
<input type="text"/>	10' to 30' (3-9m) (1-3 story building)
<input type="text"/>	30' to 75' (9-23m)(3-7 story building)
<input type="text"/>	> 75' (>23m) (>7 story building)

What percentage of the tree crown looks unhealthy or appears damaged?

<input type="text"/>	< 10%
<input type="text"/>	10% - 20%
<input type="text"/>	20% - 50%
<input type="text"/>	50% - 75%
<input type="text"/>	> 75%

New foliage

<input type="text"/>	None
<input type="text"/>	Bud swell
<input type="text"/>	New, immature foliage

Other vegetative characteristics

<input type="text"/>	Flowers
<input type="text"/>	Berries
<input type="text"/>	Newly emerging shoots around base of tree
<input type="text"/>	Other (describe or photograph)

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Tree health

Check all that apply

Site Name or number	Date

Tree health

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Overall impression of tree health

<input type="checkbox"/>	Healthy
<input type="checkbox"/>	Unhealthy

What percentage of the tree crown looks unhealthy or appears damaged?

<input type="checkbox"/>	< 10%
<input type="checkbox"/>	10% - 20%
<input type="checkbox"/>	20% - 50%
<input type="checkbox"/>	50% - 75%
<input type="checkbox"/>	> 75%

Foliar symptoms

<input type="checkbox"/>	None
<input type="checkbox"/>	Wilting leaves
<input type="checkbox"/>	Defoliation
<input type="checkbox"/>	Leaf spots (Necrotic reddish/brown spots)
<input type="checkbox"/>	Rust (Orange spots/bumps on underside of leaf)
<input type="checkbox"/>	Leaf blight (Whole leaf appears dry and dead, brown in color)
<input type="checkbox"/>	Botryosphaeria blight (Leaves that appear grey/black or "burnt")
<input type="checkbox"/>	Shoot Tip Dieback
<input type="checkbox"/>	Other (describe or photograph)

Foliage disease severity

If leaf blight is present, how bad is it?

<input type="checkbox"/>	<25% of foliage
<input type="checkbox"/>	25-50%
<input type="checkbox"/>	51-75%
<input type="checkbox"/>	>75%

Stem and branch symptoms

<input type="checkbox"/>	None
<input type="checkbox"/>	Dark, smooth, discolored lesions
<input type="checkbox"/>	Raised bumpy cankers
<input type="checkbox"/>	Wood decay
<input type="checkbox"/>	Other (describe or photograph)

Stem canker severity

Cankers on the main stem and larger branches that affect water movement in the tree.

<input type="checkbox"/>	0-5 cankers
<input type="checkbox"/>	5-10 cankers
<input type="checkbox"/>	> 10 cankers or large cankers covering most of the stem

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Tree health

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Insects

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<input type="checkbox"/>	Wood borers
<input type="checkbox"/>	Termites
<input type="checkbox"/>	Leaf miner (white "trails" in leaf tissue)
<input type="checkbox"/>	Shield bearer (holes punched out of leaf)
<input type="checkbox"/>	Webbing in branches
<input type="checkbox"/>	Chewing on leaves
<input type="checkbox"/>	Other (describe or photograph)

Wildlife

<input type="checkbox"/>	Bird activity including feeding and nesting
<input type="checkbox"/>	Burrowing varmint holes
<input type="checkbox"/>	Foliage browse
<input type="checkbox"/>	Chewing on bark
<input type="checkbox"/>	Other (describe or photograph)

Scan and return to

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