



Injuries and defense mechanisms

Few sugar maples reach maturity without suffering mechanical injuries caused by natural events or human activities. For example, severe damage to trees from wind, snow or ice storms cannot be predicted or prevented. However, damage severity could be reduced by carefully selecting the sugarbush location.

TYPES OF INJURIES

INJURIES CAUSED BY NATURAL EVENTS

1998 ice storm damage (sugar maples).



DEFENSE MECHANISMS

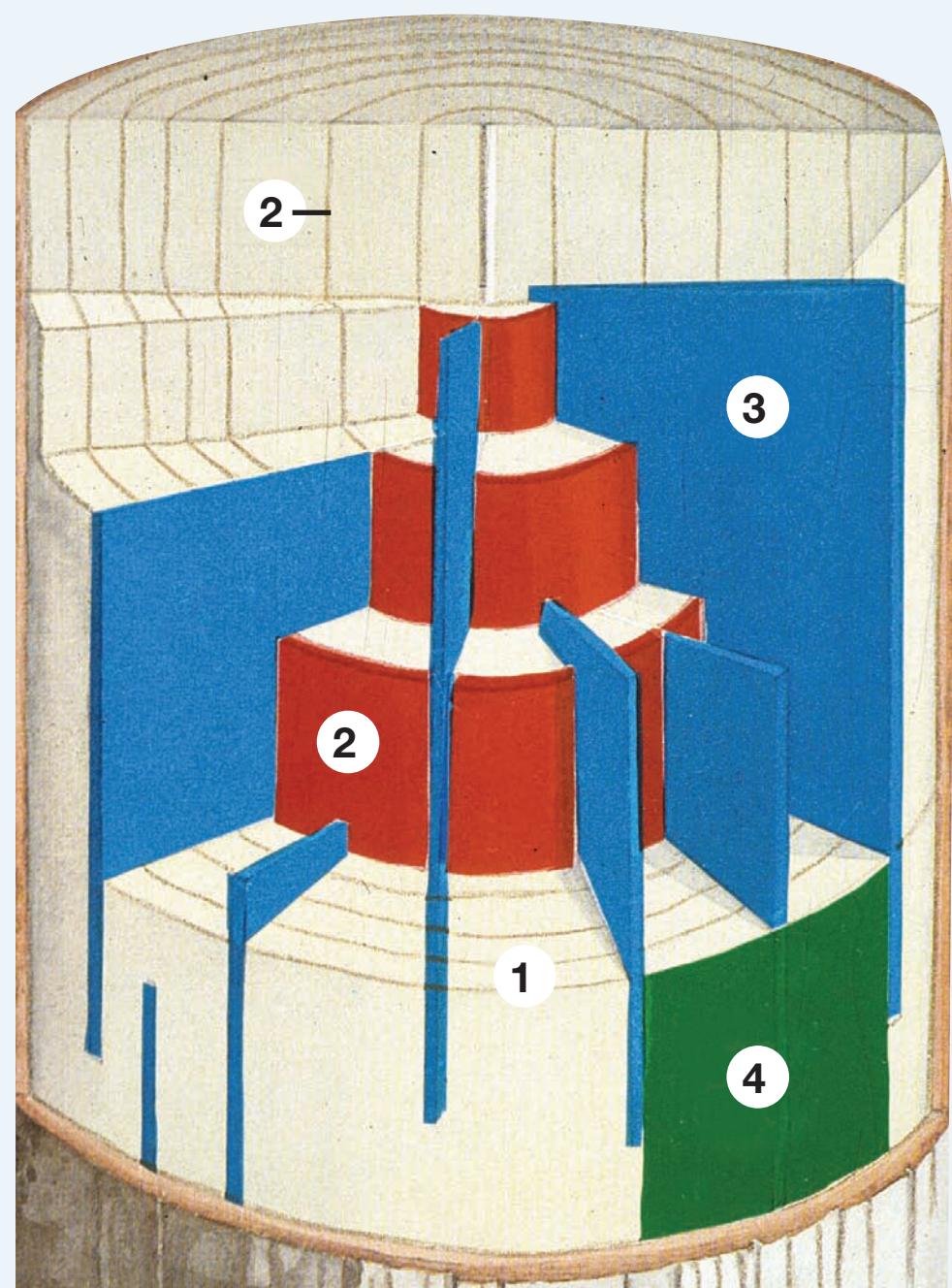
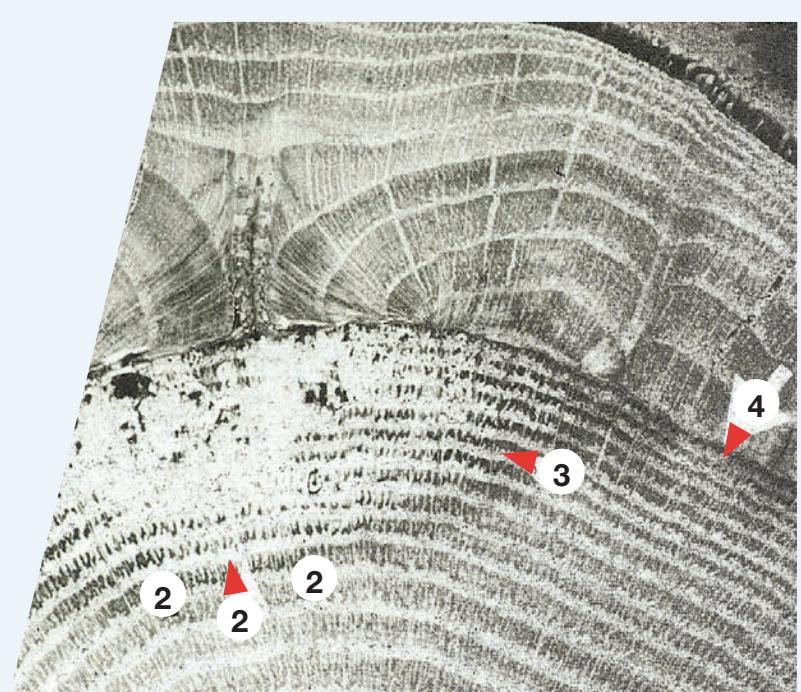
COMPARTMENTALIZATION CODIT model.

(Adapted from Shigo and Marx 1977)



WOUND CLOSURE

Five years after damage: closed injury and compartmentalization of the white decayed wood (red oak).

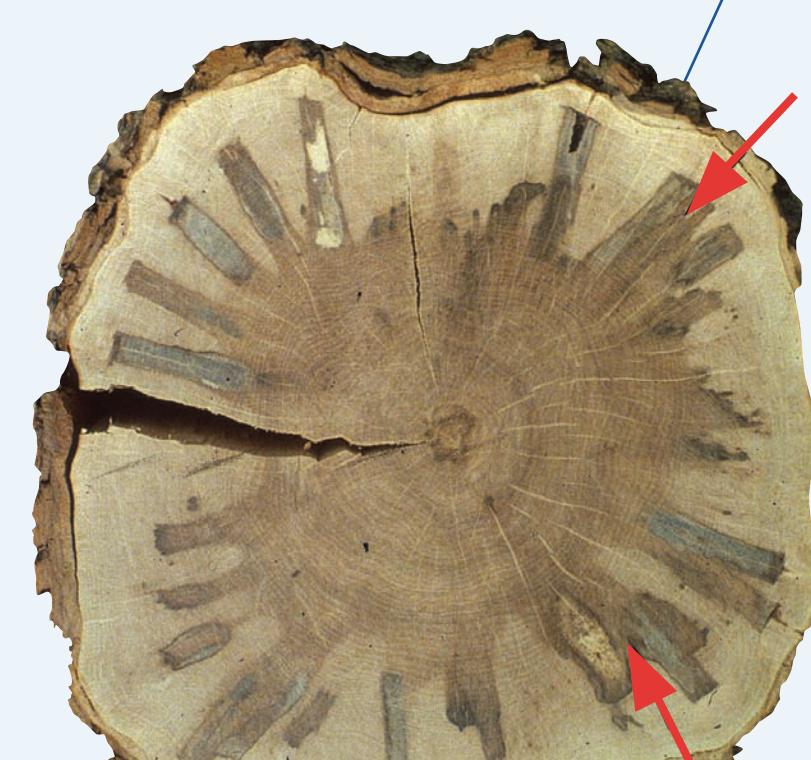


INJURIES CAUSED BY HUMAN ACTIVITIES

Injury caused by a skidder (red pine).

REACTION TO TAPPING

Overtapping (sugar maple). Some tapholes have breached compartmentalization barriers, leading to a more extensive area of discoloured wood.



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