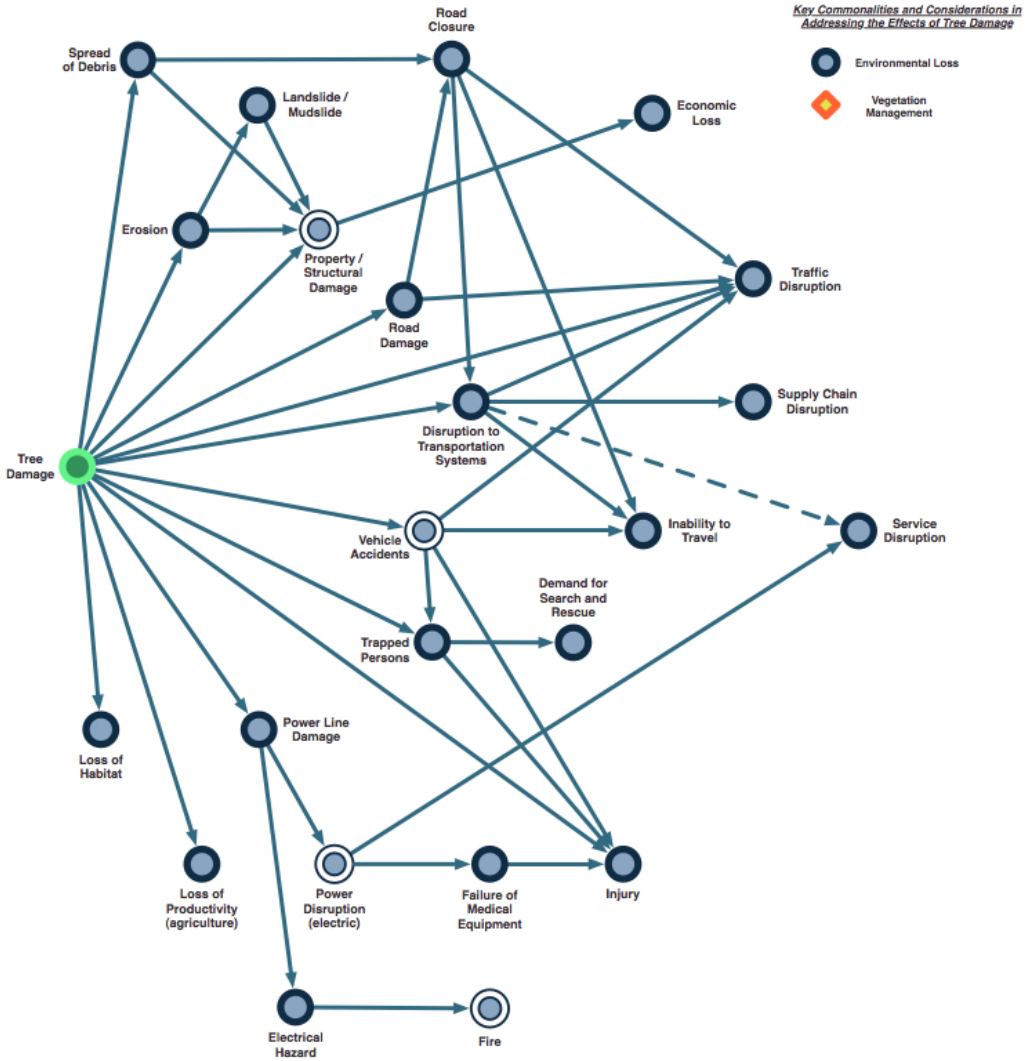


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Tree Damage Hazard Network

From The Full-Spectrum Risk Knowledgebase



NOTE: As with all hazard network slices included in The Knowledgebase, the above slice is a working draft and may be updated.

Included in the upper right corner of the hazard network are key commonalities and considerations that users should keep in mind when looking at the network. This list is not exhaustive, but highlights issues of importance as related to the effects of tree damage.

For added reference, a version of the Tree Damage Hazard Network that offers color-coding to indicate causal relationships that may impact Public Health and Safety (including loss of life) and Mission Disruption is available for viewing.

Examples of historical events related to tree damage and the downstream hazards above may be found in the Historical Events section of The Knowledgebase and in individual event/hazard descriptions.

Narrative Description of the Hazard Network



Below is a list of the hazards and outcomes caused by tree damage as depicted in the above network slice. Complementing this narrative description is a list of all Linkages pages found on the Tree Damage Hazard Network.

- Spread of Debris (which may cause)
  - Road Closure (which may lead to)
    - Traffic Disruption
    - Inability to Travel
    - Disruption to Transportation Systems (which may result in)
      - Traffic Disruption
      - Supply Chain Disruption
      - Service Disruption, of which Disruption to Transportation Systems is a type
      - Inability to Travel
  - Property/Structural Damage (which may lead to) *(see also the Property/Structural Damage Hazard Network)*
    - Economic Loss

- Erosion (which may cause)
  - Landslides or Mudslides (which may lead to)
    - Property/Structural Damage (which may result in) *(see also the Property/Structural Damage Hazard Network)*
      - Economic Loss
  - Property/Structural Damage (which may lead to) *(see also the Property/Structural Damage Hazard Network)*
    - Economic Loss

- Property/Structural Damage (which may cause) *(see also the Property/Structural Damage Hazard Network)*
  - Economic Loss

- Road Damage (which may cause)
  - Road Closure (which may lead to)
    - Traffic Disruption
    - Inability to Travel
    - Disruption to Transportation Systems (which may result in hazards as previously listed, including Traffic Disruption, Supply Chain Disruption, Service Disruption, and Inability to Travel)
  - Traffic Disruption

- Traffic Disruption

- Disruption to Transportation Systems (which may cause)
  - Traffic Disruption
  - Supply Chain Disruption
  - Service Disruption, of which Disruption to Transportation Systems is a type
  - Inability to Travel

- Vehicle Accidents (which may cause) *(see also the Vehicle Accident Hazard Network)*
  - Traffic Disruption
  - Inability to Travel
  - Injury
  - Trapped Persons (which may lead to an increase in)
    - Demand for Search and Rescue
    - Injury

- Trapped Persons (which may cause an increase in)
  - Demand for Search and Rescue
  - Injury

- Injury

- Power Line Damage (which may cause)
  - Power Disruption (electric) (which may lead to) *(see also the Power Disruption Hazard Network)*
    - Service Disruption
    - Failure of Medical Equipment (which may result in)
      - Injury
  - Electrical Hazard (which may lead to)
    - Fire *(see also the Fire Hazard Network)*
- Loss of Productivity (agriculture)
- Loss of Habitat

Key Commonalities and Considerations

As noted above, included in the upper right corner of the hazard network are key commonalities and considerations that users should keep in mind when looking at the network. This list is not exhaustive, but highlights issues of importance as related to the effects of tree damage. These issues include:

Downstream Hazards

- Environmental Loss

Mitigation/Countermeasures

- Vegetation Management

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