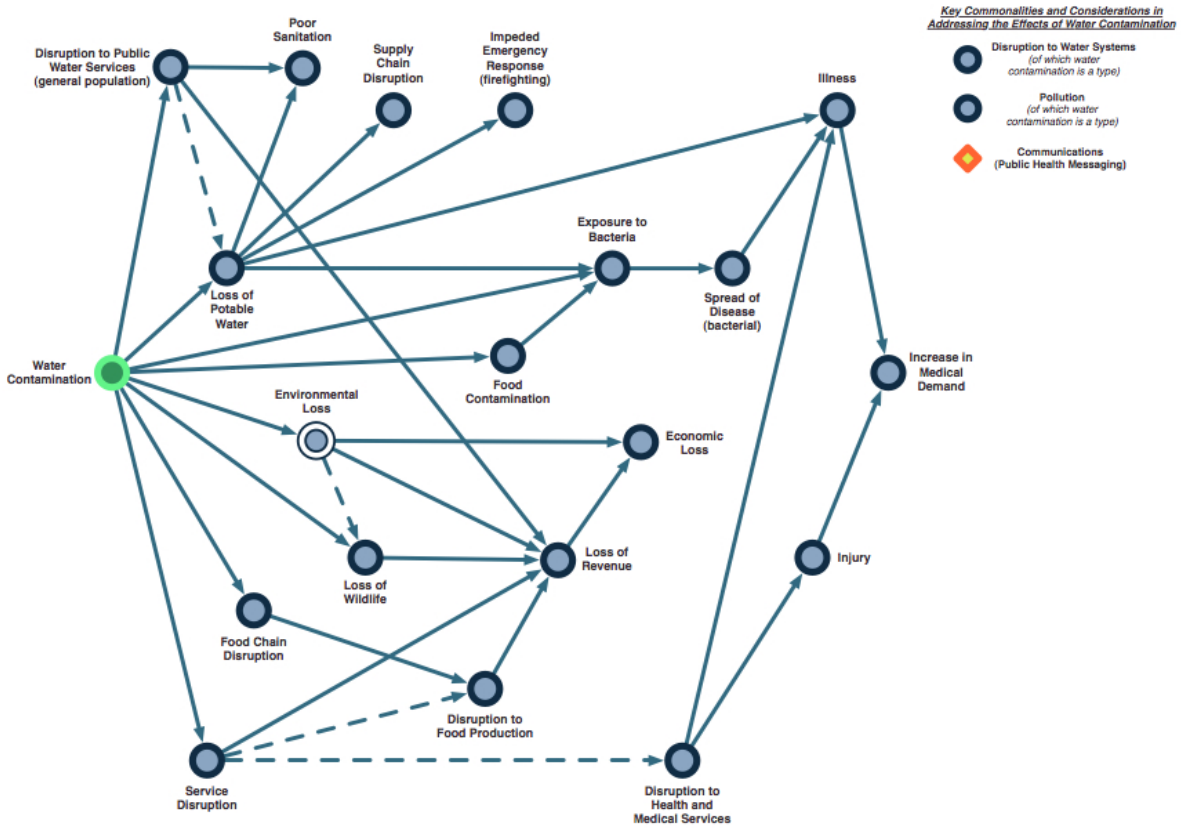
FEMA | The Full-Spectrum Risk Knowledgebase

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Water Contamination Hazard Network

From The Full-Spectrum Risk Knowledgebase



NOTE: As with all hazard network slices included in The Full-Spectrum Risk 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 water contamination.

For added reference, a version of the Water Contamination 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 water contamination 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 water contamination as depicted in the above network slice. Complementing this narrative description is a list of all Linkages pages found on the Water Contamination Hazard Network.

- Disruption to Public Water Services (general population) (which may cause)
  - Poor Sanitation
  - Loss of Revenue (which may lead to)
    - Economic Loss
  - Loss of Potable Water, a type of Disruption to Public Water Services (which may lead to)
    - Poor Sanitation
    - Supply Chain Disruption *(see also the Supply Chain Disruption Hazard Network)*
    - Impeded Emergency Response (firefighting)
    - Illness (which may result in)
      - Increase in Medical Demand
    - Exposure to Bacteria (which may result in)
      - Spread of Disease (bacterial) (which may cause]]
        - Illness (which may lead to)
          - Increase in Medical Demand
- Loss of Potable Water (which may cause hazards as previously listed, including Poor Sanitation, Supply Chain Disruption, Impeded Emergency Response, Illness, and Exposure to Bacteria, among others)
- Exposure to Bacteria (which may cause hazards as previously listed, including Spread of Disease, among others)
- Food Contamination (which may cause)
  - Exposure to Bacteria (which may lead to hazards as previously listed, including Spread of Disease, among others)
- Environmental Loss (which may cause) *(see also the Environmental Loss Hazard Network)*
  - Economic Loss
  - Loss of Revenue (which may lead to)
    - Economic Loss
  - Loss of Wildlife, a type of Environmental Loss (which may lead to)
    - Loss of Revenue (which may result in hazards as previously listed, including Economic Loss)
- Loss of Wildlife (which may cause hazards as previously listed, including Loss of Revenue, among others)
- Food Chain Disruption (which may cause)
  - Disruption to Food Production (which may lead to)
    - Loss of Revenue (which may result in hazards as previously listed, including Economic Loss)
- Service Disruption (which may cause)
  - Loss of Revenue (which may lead to hazards as previously listed, including Economic Loss)
  - Disruption to Food Production, a type of Service Disruption (which may lead to hazards as previously listed, including Loss of Revenue, among others)

- Disruption to Health and Medical Services, a type of Service Disruption (which may lead to)
  - Illness (which may result in hazards as previously listed, including Increase in Medical Demand, among others)
  - Injury (which may result in) *(see also the Injury Hazard Network)*
    - Increase in Medical Demand

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 water contamination. These issues include:

Downstream Hazards

- Disruption to Water Systems, of which water contamination is a type
- Pollution, of which water contamination is a type

Mitigation/Countermeasures

- Communications (Public Health Messaging)

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