

## APPENDIX C: HAZARD ASSESSMENT SURVEY TOOL

Members of the mitigation planning team and stakeholders from across the county responded to the Mercer County Hazard Assessment Survey to provide feedback on hazards and risks in Mercer County. The results of this survey are incorporated into Section 2.0 Hazard Identification and Risk Assessment. A complete copy of the survey is provided below.



### Mercer County 2021 Hazard Assessment Survey

Thank you for participating in the update of Mercer County's hazard mitigation plan. This survey will assess the types of hazards that impact your jurisdiction. Please respond to all questions as thoroughly as you can based on your perspective and/or experience. We understand that each individual represents a specific agency or jurisdiction and may not be aware of how hazards impact other areas of the county.

The collective results of this survey will be used to assess hazard risk across Mercer County. For grant tracking purposes, each respondent is required to provide a name and email address. The survey should take approximately 20 minutes to complete. If you have any questions about the survey or the hazard mitigation planning process, please contact Mike or Lauren.

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Q1 Name \*

Q2 Agency/Organization \*

**Q3 Jurisdiction \***

Select the jurisdiction you most closely represent or are affiliated with.

- Mercer County
- Burkettsville
- Celina
- Chickasaw
- Coldwater
- Fort Recovery
- Mendon
- Montezuma
- Rockford
- St. Henry
- Township/Unincorporated Area
- Region/Out-of-County Partner

Choose one.

**Q4 1.1 FREQUENCY: How often does DROUGHT/EXTREME HEAT impact your community?**

Drought: a deficiency of moisture that adversely impacts people, animals, and vegetation over an area of significant size. Extreme Heat: a period of abnormally hot temperatures that lasts for two or more days.

- Never/rarely (every 50 years or less)
- Low (every 20-25 years)
- Moderate (every 10-15 years)

- High (every 3-5 years)
- Excessive (at least once per year)

Choose one.

Comments

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**Q5 1.2 RESPONSE DURATION: How long does the community response to DROUGHT/EXTREME HEAT impact your community?**

'Response Duration' refers to the length of time needed to manage the incident and return the community to relatively normal function.

- Brief (half a day or less)
- Low (1 day)
- Moderate (2 to 7 days)
- Long (2 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q6 1.3 SPEED OF ONSET: How much warning time does the community have before a DROUGHT/EXTREME HEAT event?**

'Speed of Onset' refers to the amount of warning time the community has when an incident occurs or conditions indicate that it could occur. This includes, but is not limited to, warnings issued by the National Weather Service and other government agencies.

- Extended (more than 24 hours)

- Moderate (12 to 24 hours)
- Low (6 to 12 hours)
- Minimal (less than 6 hours)
- Immediate (no warning time)

Choose one.

Comments

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**Q7 1.4 MAGNITUDE: How much of your community is affected by a DROUGHT/EXTREME HEAT event?**

'Magnitude' refers to the overall effect an incident has on the community, including property damage, injuries or personal impact, and business impacts.

- Localized (less than 10% of community)
- Limited (11-25% of community)
- Widespread (26-50% of community)
- Catastrophic (more than 50% of community)

Choose one.

Comments

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**Q8 1.5 BUSINESS IMPACT: How long are businesses impacted by a DROUGHT/EXTREME HEAT event affected?**

'Business Impact' refers to a business's ability to operate normally. Impact could include lack of access to critical utilities, inability of employees to report to work, limited ability to purchase necessary supplies or inventory, etc.

- Brief (less than 24 hours)
- Limited (1 to 7 days)
- Moderate (1 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q9 1.6 HUMAN IMPACT: What level of injuries or impact on people is typical of a DROUGHT/EXTREME HEAT incident?**

'Human Impact' refers to the level of injuries or fatalities in the community following an incident.

- Minimal (some minor injuries/no deaths)
- Low (multiple minor injuries/no deaths)
- Moderate (many minor injuries/some severe injuries)
- Significant (many severe injuries/some fatalities)

Choose one.

Comments

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**Q10 1.7 PROPERTY IMPACT: How much property damage is typical in the community during a DROUGHT/EXTREME HEAT event?**

'Property Impact' refers to the level of damage to buildings and structures, including residential, business/commercial, and critical facilities (such as public safety, healthcare, education, government, religion, etc.).

- Minimal (less than 10% of structures damaged/most damage is minor)
- Moderate (11-25% of structures damaged/some minor and moderate damage)
- Widespread (26-50% of structures damaged/many structures with major damage, some destroyed)
- Catastrophic (more than 50% of structures damaged/many structures destroyed or with major damage)

Choose one.

Comments

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**Q11 2.1 FREQUENCY: How often do EARTHQUAKES impact your community?**

Earthquake: a sudden and violent shaking of the ground caused by movement within the earth's crust or volcanic activity.

- Never/rarely (every 50 years or less)
- Low (every 20-25 years)
- Moderate (every 10-15 years)
- High (every 3-5 years)
- Excessive (at least once per year)

Choose one.

Comments

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**Q12 2.2 RESPONSE DURATION: How long does the community response to EARTHQUAKE impact your community?**

'Response Duration' refers to the length of time needed to manage the incident and return the community to relatively normal function.

- Brief (half a day or less)
- Low (1 day)
- Moderate (2 to 7 days)
- Long (2 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q13 2.3 SPEED OF ONSET: How much warning time does the community have before an EARTHQUAKE event?**

'Speed of Onset' refers to the amount of warning time the community has when an incident occurs or conditions indicate that it could occur. This includes, but is not limited to, warnings issued by the National Weather Service and other government agencies.

- Extended (more than 24 hours)
- Moderate (12 to 24 hours)
- Low (6 to 12 hours)
- Minimal (less than 6 hours)
- Immediate (no warning time)

Choose one.

Comments

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**Q14 2.4 MAGNITUDE: How much of your community is affected by an EARTHQUAKE event?**

'Magnitude' refers to the overall effect an incident has on the community, including property damage, injuries or personal impact, and business impacts.

- Localized (less than 10% of community)
- Limited (11-25% of community)
- Widespread (26-50% of community)
- Catastrophic (more than 50% of community)

Choose one.

Comments

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**Q15 2.5 BUSINESS IMPACT: How long are businesses impacted by an EARTHQUAKE event affected?**

'Business Impact' refers to a business's ability to operate normally. Impact could include lack of access to critical utilities, inability of employees to report to work, limited ability to purchase necessary supplies or inventory, etc.

- Brief (less than 24 hours)
- Limited (1 to 7 days)
- Moderate (1 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q16 2.6 HUMAN IMPACT: What level of injuries or impact on people is typical of an EARTHQUAKE incident?**

'Human Impact' refers to the level of injuries or fatalities in the community following an incident.

- Minimal (some minor injuries/no deaths)
- Low (multiple minor injuries/no deaths)
- Moderate (many minor injuries/some severe injuries)
- Significant (many severe injuries/some fatalities)

Choose one.

Comments

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**Q17 2.7 PROPERTY IMPACT: How much property damage is typical in the community during an EARTHQUAKE event?**

'Property Impact' refers to the level of damage to buildings and structures, including residential, business/commercial, and critical facilities (such as public safety, healthcare, education, government, religion, etc.).

- Minimal (less than 10% of structures damaged/most damage is minor)
- Moderate (11-25% of structures damaged/some minor and moderate damage)
- Widespread (26-50% of structures damaged/many structures with major damage, some destroyed)
- Catastrophic (more than 50% of structures damaged/many structures destroyed or with major damage)

Choose one.

Comments

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**Q18 3.1 FREQUENCY: How often does FLOODING impact your community?**

Flood: an overflow of water on typically dry land. This can be caused by rising water from a river, creek, stream, or other waterway (riverine flooding), heavy or excessive rainfall over a short period of time (flash flooding), or rising water on open bodies of water that pushes ashore (coastal flooding).

- Never/rarely (every 50 years or less)
- Low (every 20-25 years)
- Moderate (every 10-15 years)
- High (every 3-5 years)
- Excessive (at least once per year)

Choose one.

Comments

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**Q19 3.2 RESPONSE DURATION: How long does the community response to FLOODING impact your community?**

'Response Duration' refers to the length of time needed to manage the incident and return the community to relatively normal function.

- Brief (half a day or less)
- Low (1 day)
- Moderate (2 to 7 days)
- Long (2 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

**Q20 3.3 SPEED OF ONSET: How much warning time does the community have before a FLOODING event?**

'Speed of Onset' refers to the amount of warning time the community has when an incident occurs or conditions indicate that it could occur. This includes, but is not limited to, warnings issued by the National Weather Service and other government agencies.

- Extended (more than 24 hours)
- Moderate (12 to 24 hours)
- Low (6 to 12 hours)
- Minimal (less than 6 hours)
- Immediate (no warning time)

Choose one.

Comments

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**Q21 3.4 MAGNITUDE: How much of your community is affected by a FLOODING event?**

'Magnitude' refers to the overall effect an incident has on the community, including property damage, injuries or personal impact, and business impacts.

- Localized (less than 10% of community)
- Limited (11-25% of community)
- Widespread (26-50% of community)
- Catastrophic (more than 50% of community)

Choose one.

Comments

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**Q22 3.5 BUSINESS IMPACT: How long are businesses impacted by a FLOODING event affected?**

'Business Impact' refers to a business's ability to operate normally. Impact could include lack of access to critical utilities, inability of employees to report to work, limited ability to purchase necessary supplies or inventory, etc.

- Brief (less than 24 hours)
- Limited (1 to 7 days)
- Moderate (1 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q23 3.6 HUMAN IMPACT: What level of injuries or impact on people is typical of a FLOODING incident?**

'Human Impact' refers to the level of injuries or fatalities in the community following an incident.

- Minimal (some minor injuries/no deaths)
- Low (multiple minor injuries/no deaths)
- Moderate (many minor injuries/some severe injuries)
- Significant (many severe injuries/some fatalities)

Choose one.

Comments

**Q24 3.7 PROPERTY IMPACT: How much property damage is typical in the community during a FLOODING event?**

'Property Impact' refers to the level of damage to buildings and structures, including residential, business/commercial, and critical facilities (such as public safety, healthcare, education, government, religion, etc.).

- Minimal (less than 10% of structures damaged/most damage is minor)
- Moderate (11-25% of structures damaged/some minor and moderate damage)
- Widespread (26-50% of structures damaged/many structures with major damage, some destroyed)
- Catastrophic (more than 50% of structures damaged/many structures destroyed or with major damage)

Choose one.

Comments

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**Q25 4.1 FREQUENCY: How often does a HAZARDOUS MATERIALS SPILL/INCIDENT impact your community?**

Hazardous Materials Spill/Incident: a breach of a container (or containers) storing hazardous substances; this can occur in fixed facilities or during transportation (road, rail, air, water) and can be accidental or intentional.

- Never/rarely (every 50 years or less)
- Low (every 20-25 years)
- Moderate (every 10-15 years)
- High (every 3-5 years)
- Excessive (at least once per year)

Choose one.

Comments

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**Q26 4.2 RESPONSE DURATION: How long does the community response to HAZARDOUS MATERIALS SPILLS/INCIDENTS impact your community?**

'Response Duration' refers to the length of time needed to manage the incident and return the community to relatively normal function.

- Brief (half a day or less)
- Low (1 day)
- Moderate (2 to 7 days)
- Long (2 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q27 4.3 SPEED OF ONSET: How much warning time does the community have before a HAZARDOUS MATERIALS SPILL/INCIDENT event?**

'Speed of Onset' refers to the amount of warning time the community has when an incident occurs or conditions indicate that it could occur. This includes, but is not limited to, warnings issued by the National Weather Service and other government agencies.

- Extended (more than 24 hours)
- Moderate (12 to 24 hours)
- Low (6 to 12 hours)
- Minimal (less than 6 hours)

Immediate (no warning time)

Choose one.

Comments

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**Q28 4.4 MAGNITUDE: How much of your community is affected by a HAZARDOUS MATERIALS SPILL/INCIDENT event?**

'Magnitude' refers to the overall effect an incident has on the community, including property damage, injuries or personal impact, and business impacts.

Localized (less than 10% of community)

Limited (11-25% of community)

Widespread (26-50% of community)

Catastrophic (more than 50% of community)

Choose one.

Comments

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**Q29 4.5 BUSINESS IMPACT: How long are businesses impacted by a HAZARDOUS MATERIALS SPILL/INCIDENT event affected?**

'Business Impact' refers to a business's ability to operate normally. Impact could include lack of access to critical utilities, inability of employees to report to work, limited ability to purchase necessary supplies or inventory, etc.

Brief (less than 24 hours)

Limited (1 to 7 days)

Moderate (1 to 4 weeks)

Extended (more than 1 month)

Choose one.

Comments

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**Q30 4.6 HUMAN IMPACT: What level of injuries or impact on people is typical of a HAZARDOUS MATERIALS SPILL/INCIDENT?**

'Human Impact' refers to the level of injuries or fatalities in the community following an incident.

- Minimal (some minor injuries/no deaths)
- Low (multiple minor injuries/no deaths)
- Moderate (many minor injuries/some severe injuries)
- Significant (many severe injuries/some fatalities)

Choose one.

Comments

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**Q31 4.7 PROPERTY IMPACT: How much property damage is typical in the community during a HAZARDOUS MATERIALS SPILL/INCIDENT event?**

'Property Impact' refers to the level of damage to buildings and structures, including residential, business/commercial, and critical facilities (such as public safety, healthcare, education, government, religion, etc.).

- Minimal (less than 10% of structures damaged/most damage is minor)
- Moderate (11-25% of structures damaged/some minor and moderate damage)
- Widespread (26-50% of structures damaged/many structures with major damage, some destroyed)



- Catastrophic (more than 50% of structures damaged/many structures destroyed or with major damage)

Choose one.

Comments

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**Q32 5.1 FREQUENCY: How often does INFRASTRUCTURE-DAM/LEVEE FAILURE impact your community?**

Dam: an artificial barrier built across flowing water that directs or slows the flow of water and often creates a dam or reservoir. Levee: an embankment constructed to prevent the overflow of a waterway and subsequent flooding of the surrounding land.

- Never/rarely (every 50 years or less)
- Low (every 20-25 years)
- Moderate (every 10-15 years)
- High (every 3-5 years)
- Excessive (at least once per year)

Choose one.

Comments

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**Q33 5.2 RESPONSE DURATION: How long does the community response to INFRASTRUCTURE-DAM/LEVEE FAILURE impact your community?**

'Response Duration' refers to the length of time needed to manage the incident and return the community to relatively normal function.

- Brief (half a day or less)
- Low (1 day)

- Moderate (2 to 7 days)
- Long (2 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q34 5.3 SPEED OF ONSET: How much warning time does the community have before a INFRASTRUCTURE-DAM/LEVEE FAILURE event?**

'Speed of Onset' refers to the amount of warning time the community has when an incident occurs or conditions indicate that it could occur. This includes, but is not limited to, warnings issued by the National Weather Service and other government agencies.

- Extended (more than 24 hours)
- Moderate (12 to 24 hours)
- Low (6 to 12 hours)
- Minimal (less than 6 hours)
- Immediate (no warning time)

Choose one.

Comments

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**Q35 5.4 MAGNITUDE: How much of your community is affected by a INFRASTRUCTURE-DAM/LEVEE FAILURE event?**

'Magnitude' refers to the overall effect an incident has on the community, including property damage, injuries or personal impact, and business impacts.

- Localized (less than 10% of community)
- Limited (11-25% of community)
- Widespread (26-50% of community)
- Catastrophic (more than 50% of community)

Choose one.

Comments

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**Q36 5.5 BUSINESS IMPACT: How long are businesses impacted by a INFRASTRUCTURE-DAM/LEVEE FAILURE event affected?**

'Business Impact' refers to a business's ability to operate normally. Impact could include lack of access to critical utilities, inability of employees to report to work, limited ability to purchase necessary supplies or inventory, etc.

- Brief (less than 24 hours)
- Limited (1 to 7 days)
- Moderate (1 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q37 5.6 HUMAN IMPACT: What level of injuries or impact on people is typical of a INFRASTRUCTURE-DAM/LEVEE FAILURE incident?**

'Human Impact' refers to the level of injuries or fatalities in the community following an incident.

- Minimal (some minor injuries/no deaths)
- Low (multiple minor injuries/no deaths)
- Moderate (many minor injuries/some severe injuries)
- Significant (many severe injuries/some fatalities)

Choose one.

Comments

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**Q38 5.7 PROPERTY IMPACT: How much property damage is typical in the community during a INFRASTRUCTURE-DAM/LEVEE FAILURE event?**

'Property Impact' refers to the level of damage to buildings and structures, including residential, business/commercial, and critical facilities (such as public safety, healthcare, education, government, religion, etc.).

- Minimal (less than 10% of structures damaged/most damage is minor)
- Moderate (11-25% of structures damaged/some minor and moderate damage)
- Widespread (26-50% of structures damaged/many structures with major damage, some destroyed)
- Catastrophic (more than 50% of structures damaged/many structures destroyed or with major damage)

Choose one.

Comments

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**Q39 6.1 FREQUENCY: How often does INFRASTRUCTURE-UTILITY SYSTEM OUTAGE impact your community?**

Utility System Outage: Utility infrastructure is the basic physical and organizational structures that are necessary to provide essential utility services such as electricity, natural gas, water, and wastewater. Failure or compromise of these systems can include breaks, damage, or other problems that limit or prevent the systems from functioning at the necessary capacity, resulting in lack of access to the system by the public.

- Never/rarely (every 50 years or less)
- Low (every 20-25 years)
- Moderate (every 10-15 years)
- High (every 3-5 years)
- Excessive (at least once per year)

Choose one.

Comments

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**Q40 6.2 RESPONSE DURATION: How long does the community response to INFRASTRUCTURE-UTILITY SYSTEM OUTAGE impact your community?**

'Response Duration' refers to the length of time needed to manage the incident and return the community to relatively normal function.

- Brief (half a day or less)
- Low (1 day)
- Moderate (2 to 7 days)
- Long (2 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q41 6.3 SPEED OF ONSET: How much warning time does the community have before a INFRASTRUCTURE-UTILITY SYSTEM OUTAGE event?**

'Speed of Onset' refers to the amount of warning time the community has when an incident occurs or conditions indicate that it could occur. This includes, but is not limited to, warnings issued by the National Weather Service and other government agencies.

- Extended (more than 24 hours)
- Moderate (12 to 24 hours)
- Low (6 to 12 hours)
- Minimal (less than 6 hours)
- Immediate (no warning time)

Choose one.

Comments

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**Q42 6.4 MAGNITUDE: How much of your community is affected by a INFRASTRUCTURE-UTILITY SYSTEM OUTAGE event?**

'Magnitude' refers to the overall effect an incident has on the community, including property damage, injuries or personal impact, and business impacts.

- Localized (less than 10% of community)
- Limited (11-25% of community)
- Widespread (26-50% of community)
- Catastrophic (more than 50% of community)

Choose one.

Comments

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**Q43 6.5 BUSINESS IMPACT: How long are businesses impacted by a INFRASTRUCTURE-UTILITY SYSTEM OUTAGE event affected?**

'Business Impact' refers to a business's ability to operate normally. Impact could include lack of access to critical utilities, inability of employees to report to work, limited ability to purchase necessary supplies or inventory, etc.

- Brief (less than 24 hours)
- Limited (1 to 7 days)
- Moderate (1 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q44 6.6 HUMAN IMPACT: What level of injuries or impact on people is typical of a INFRASTRUCTURE-UTILITY SYSTEM OUTAGE incident?**

'Human Impact' refers to the level of injuries or fatalities in the community following an incident.

- Minimal (some minor injuries/no deaths)
- Low (multiple minor injuries/no deaths)
- Moderate (many minor injuries/some severe injuries)
- Significant (many severe injuries/some fatalities)

Choose one.

Comments

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**Q45 6.7 PROPERTY IMPACT: How much property damage is typical in the community during a INFRASTRUCTURE-UTILITY SYSTEM OUTAGE event?**

'Property Impact' refers to the level of damage to buildings and structures, including residential, business/commercial, and critical facilities (such as public safety, healthcare, education, government, religion, etc.).

- Minimal (less than 10% of structures damaged/most damage is minor)
- Moderate (11-25% of structures damaged/some minor and moderate damage)
- Widespread (26-50% of structures damaged/many structures with major damage, some destroyed)
- Catastrophic (more than 50% of structures damaged/many structures destroyed or with major damage)

Choose one.

Comments

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**Q46 7.1 FREQUENCY: How often does INFRASTRUCTURE-TRANSPORTATION SYSTEM FAILURE impact your community? \***

Transportation Infrastructure: the foundational structures and systems for transporting people and goods. Includes, but is not limited to, roads and bridges, railways, ports, and airports.

- Never/rarely (every 50 years or less)
- Low (every 20-25 years)
- Moderate (every 10-15 years)
- High (every 3-5 years)
- Excessive (at least once per year)



Choose one.

Comments

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**Q47 7.2 RESPONSE DURATION: How long does the community response to INFRASTRUCTURE-TRANSPORTATION SYSTEM FAILURE impact your community?**

'Response Duration' refers to the length of time needed to manage the incident and return the community to relatively normal function.

- Brief (half a day or less)
- Low (1 day)
- Moderate (2 to 7 days)
- Long (2 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q48 7.3 SPEED OF ONSET: How much warning time does the community have before a INFRASTRUCTURE-TRANSPORTATION SYSTEM FAILURE event?**

'Speed of Onset' refers to the amount of warning time the community has when an incident occurs or conditions indicate that it could occur. This includes, but is not limited to, warnings issued by the National Weather Service and other government agencies.

- Extended (more than 24 hours)
- Moderate (12 to 24 hours)
- Low (6 to 12 hours)
- Minimal (less than 6 hours)

Immediate (no warning time)

Choose one.

Comments

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**Q49 7.4 MAGNITUDE: How much of your community is affected by a INFRASTRUCTURE-TRANSPORTATION SYSTEM FAILURE event?**

'Magnitude' refers to the overall effect an incident has on the community, including property damage, injuries or personal impact, and business impacts.

Localized (less than 10% of community)

Limited (11-25% of community)

Widespread (26-50% of community)

Catastrophic (more than 50% of community)

Choose one.

Comments

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**Q50 7.5 BUSINESS IMPACT: How long are businesses impacted by a INFRASTRUCTURE-TRANSPORTATION SYSTEM FAILURE event affected?**

'Business Impact' refers to a business's ability to operate normally. Impact could include lack of access to critical utilities, inability of employees to report to work, limited ability to purchase necessary supplies or inventory, etc.

Brief (less than 24 hours)

Limited (1 to 7 days)

Moderate (1 to 4 weeks)

Extended (more than 1 month)

Choose one.

Comments

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**Q51 7.6 HUMAN IMPACT: What level of injuries or impact on people is typical of a INFRASTRUCTURE-TRANSPORTATION SYSTEM FAILURE incident?**

'Human Impact' refers to the level of injuries or fatalities in the community following an incident.

- Minimal (some minor injuries/no deaths)
- Low (multiple minor injuries/no deaths)
- Moderate (many minor injuries/some severe injuries)
- Significant (many severe injuries/some fatalities)

Choose one.

Comments

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**Q52 7.7 PROPERTY IMPACT: How much property damage is typical in the community during a INFRASTRUCTURE-TRANSPORTATION SYSTEM FAILURE event?**

'Property Impact' refers to the level of damage to buildings and structures, including residential, business/commercial, and critical facilities (such as public safety, healthcare, education, government, religion, etc.).

- Minimal (less than 10% of structures damaged/most damage is minor)
- Moderate (11-25% of structures damaged/some minor and moderate damage)
- Widespread (26-50% of structures damaged/many structures with major damage, some destroyed)

- Catastrophic (more than 50% of structures damaged/many structures destroyed or with major damage)

Choose one.

Comments

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**Q53 8.1 FREQUENCY: How often does INFRASTRUCTURE-WATER QUALITY EMERGENCY impact your community?**

Water Quality: the chemical, physical, biological, or radiological characteristics of water. A water quality emergency occurs when something impacts the quality of water and its safety and/or availability for consumption by humans and/or animals.

- Never/rarely (every 50 years or less)
- Low (every 20-25 years)
- Moderate (every 10-15 years)
- High (every 3-5 years)
- Excessive (at least once per year)

Choose one.

Comments

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**Q54 8.2 RESPONSE DURATION: How long does the community response to INFRASTRUCTURE-WATER QUALITY EMERGENCY impact your community?**

'Response Duration' refers to the length of time needed to manage the incident and return the community to relatively normal function.

- Brief (half a day or less)
- Low (1 day)

- Moderate (2 to 7 days)
- Long (2 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q55 8.3 SPEED OF ONSET: How much warning time does the community have before a INFRASTRUCTURE-WATER QUALITY EMERGENCY event?**

'Speed of Onset' refers to the amount of warning time the community has when an incident occurs or conditions indicate that it could occur. This includes, but is not limited to, warnings issued by the National Weather Service and other government agencies.

- Extended (more than 24 hours)
- Moderate (12 to 24 hours)
- Low (6 to 12 hours)
- Minimal (less than 6 hours)
- Immediate (no warning time)

Choose one.

Comments

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**Q56 8.4 MAGNITUDE: How much of your community is affected by a INFRASTRUCTURE-WATER QUALITY EMERGENCY event?**

'Magnitude' refers to the overall effect an incident has on the community, including property damage, injuries or personal impact, and business impacts.

- Localized (less than 10% of community)
- Limited (11-25% of community)
- Widespread (26-50% of community)
- Catastrophic (more than 50% of community)

Choose one.

Comments

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**Q57 8.5 BUSINESS IMPACT: How long are businesses impacted by a INFRASTRUCTURE-WATER QUALITY EMERGENCY event affected?**

'Business Impact' refers to a business's ability to operate normally. Impact could include lack of access to critical utilities, inability of employees to report to work, limited ability to purchase necessary supplies or inventory, etc.

- Brief (less than 24 hours)
- Limited (1 to 7 days)
- Moderate (1 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q58 8.6 HUMAN IMPACT: What level of injuries or impact on people is typical of a INFRASTRUCTURE-WATER QUALITY EMERGENCY incident?**

'Human Impact' refers to the level of injuries or fatalities in the community following an incident.

- Minimal (some minor injuries/no deaths)
- Low (multiple minor injuries/no deaths)
- Moderate (many minor injuries/some severe injuries)
- Significant (many severe injuries/some fatalities)

Choose one.

Comments

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**Q59 8.7 PROPERTY IMPACT: How much property damage is typical in the community during a INFRASTRUCTURE-WATER QUALITY EMERGENCY event?**

'Property Impact' refers to the level of damage to buildings and structures, including residential, business/commercial, and critical facilities (such as public safety, healthcare, education, government, religion, etc.).

- Minimal (less than 10% of structures damaged/most damage is minor)
- Moderate (11-25% of structures damaged/some minor and moderate damage)
- Widespread (26-50% of structures damaged/many structures with major damage, some destroyed)
- Catastrophic (more than 50% of structures damaged/many structures destroyed or with major damage)

Choose one.

Comments

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**Q60 9.1 FREQUENCY: How often do \*INVASIVE SPECIES \*impact your community?**

Invasive Species: a plant or animal species that is not native to the local ecosystem and whose introduction is likely to cause damage to people, the economy, or the environment. Types of species include terrestrial plants, terrestrial wildlife, insects and diseases, and aquatic species.

- Never/rarely (every 50 years or less)
- Low (every 20-25 years)
- Moderate (every 10-15 years)
- High (every 3-5 years)
- Excessive (at least once per year)

Choose one.

Comments

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**Q61 9.2 RESPONSE DURATION: How long does the community response to INVASIVE SPECIES impact your community?**

'Response Duration' refers to the length of time needed to manage the incident and return the community to relatively normal function.

- Brief (half a day or less)
- Low (1 day)
- Moderate (2 to 7 days)
- Long (2 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q62 9.3 SPEED OF ONSET: How much warning time does the community have before an INVASIVE SPECIES event?**

'Speed of Onset' refers to the amount of warning time the community has when an incident occurs or conditions indicate that it could occur. This includes, but is not limited to, warnings issued by the National Weather Service and other government agencies.

- Extended (more than 24 hours)
- Moderate (12 to 24 hours)
- Low (6 to 12 hours)
- Minimal (less than 6 hours)
- Immediate (no warning time)

Choose one.

Comments

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**Q63 9.4 MAGNITUDE: How much of your community is affected by an INVASIVE SPECIES event?**

'Magnitude' refers to the overall effect an incident has on the community, including property damage, injuries or personal impact, and business impacts.

- Localized (less than 10% of community)
- Limited (11-25% of community)
- Widespread (26-50% of community)
- Catastrophic (more than 50% of community)

Choose one.

Comments

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**Q64 9.5 BUSINESS IMPACT: How long are businesses impacted by an INVASIVE SPECIES event affected?**

'Business Impact' refers to a business's ability to operate normally. Impact could include lack of access to critical utilities, inability of employees to report to work, limited ability to purchase necessary supplies or inventory, etc.

- Brief (less than 24 hours)
- Limited (1 to 7 days)
- Moderate (1 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q65 9.6 HUMAN IMPACT: What level of injuries or impact on people is typical of an INVASIVE SPECIES incident?**

'Human Impact' refers to the level of injuries or fatalities in the community following an incident.

- Minimal (some minor injuries/no deaths)
- Low (multiple minor injuries/no deaths)
- Moderate (many minor injuries/some severe injuries)
- Significant (many severe injuries/some fatalities)

Choose one.

Comments

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**Q66 9.7 PROPERTY IMPACT: How much property damage is typical in the community during an INVASIVE SPECIES event?**

'Property Impact' refers to the level of damage to buildings and structures, including residential, business/commercial, and critical facilities (such as public safety, healthcare, education, government, religion, etc.).

- Minimal (less than 10% of structures damaged/most damage is minor)
- Moderate (11-25% of structures damaged/some minor and moderate damage)
- Widespread (26-50% of structures damaged/many structures with major damage, some destroyed)
- Catastrophic (more than 50% of structures damaged/many structures destroyed or with major damage)

Choose one.

Comments

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**Q67 10.1 FREQUENCY: How often does LAND SUBSIDENCE impact your community?**

Land Subsidence: Gradual or sudden sinking of the earth's surface caused by sub-surface movement of earth materials that develops over time.

- Never/rarely (every 50 years or less)
- Low (every 20-25 years)
- Moderate (every 10-15 years)
- High (every 3-5 years)
- Excessive (at least once per year)

Choose one.

Comments

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**Q68 10.2 RESPONSE DURATION: How long does the community response to LAND SUBSIDENCE impact your community?**

'Response Duration' refers to the length of time needed to manage the incident and return the community to relatively normal function.

- Brief (half a day or less)
- Low (1 day)
- Moderate (2 to 7 days)
- Long (2 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q69 10.3 SPEED OF ONSET: How much warning time does the community have before a LAND SUBSIDENCE event?**

'Speed of Onset' refers to the amount of warning time the community has when an incident occurs or conditions indicate that it could occur. This includes, but is not limited to, warnings issued by the National Weather Service and other government agencies.

- Extended (more than 24 hours)
- Moderate (12 to 24 hours)
- Low (6 to 12 hours)
- Minimal (less than 6 hours)
- Immediate (no warning time)

Choose one.

Comments

**Q70 10.4 MAGNITUDE: How much of your community is affected by a LAND SUBSIDENCE event?**

'Magnitude' refers to the overall effect an incident has on the community, including property damage, injuries or personal impact, and business impacts.

- Localized (less than 10% of community)
- Limited (11-25% of community)
- Widespread (26-50% of community)
- Catastrophic (more than 50% of community)

Choose one.

Comments

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**Q71 10.5 BUSINESS IMPACT: How long are businesses impacted by a LAND SUBSIDENCE event affected?**

'Business Impact' refers to a business's ability to operate normally. Impact could include lack of access to critical utilities, inability of employees to report to work, limited ability to purchase necessary supplies or inventory, etc.

- Brief (less than 24 hours)
- Limited (1 to 7 days)
- Moderate (1 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

**Q72 10.6 HUMAN IMPACT: What level of injuries or impact on people is typical of a LAND SUBSIDENCE incident?**

'Human Impact' refers to the level of injuries or fatalities in the community following an incident.

- Minimal (some minor injuries/no deaths)
- Low (multiple minor injuries/no deaths)
- Moderate (many minor injuries/some severe injuries)
- Significant (many severe injuries/some fatalities)

Choose one.

Comments

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**Q73 10.7 PROPERTY IMPACT: How much property damage is typical in the community during a LAND SUBSIDENCE event?**

'Property Impact' refers to the level of damage to buildings and structures, including residential, business/commercial, and critical facilities (such as public safety, healthcare, education, government, religion, etc.).

- Minimal (less than 10% of structures damaged/most damage is minor)
- Moderate (11-25% of structures damaged/some minor and moderate damage)
- Widespread (26-50% of structures damaged/many structures with major damage, some destroyed)
- Catastrophic (more than 50% of structures damaged/many structures destroyed or with major damage)

Choose one.

Comments

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**Q74 11.1 FREQUENCY: How often does SEVERE THUNDERSTORM impact your community?**

Severe Thunderstorm: a local storm produced by a cumulonimbus cloud and accompanied by a combination of thunder, lightning, hail, and wind.

- Never/rarely (every 50 years or less)
- Low (every 20-25 years)
- Moderate (every 10-15 years)
- High (every 3-5 years)
- Excessive (at least once per year)

Choose one.

Comments

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**Q75 11.2 RESPONSE DURATION: How long does the community response to SEVERE THUNDERSTORM impact your community?**

'Response Duration' refers to the length of time needed to manage the incident and return the community to relatively normal function.

- Brief (half a day or less)
- Low (1 day)
- Moderate (2 to 7 days)
- Long (2 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

**Q76 11.3 SPEED OF ONSET: How much warning time does the community have before a SEVERE THUNDERSTORM event?**

'Speed of Onset' refers to the amount of warning time the community has when an incident occurs or conditions indicate that it could occur. This includes, but is not limited to, warnings issued by the National Weather Service and other government agencies.

- Extended (more than 24 hours)
- Moderate (12 to 24 hours)
- Low (6 to 12 hours)
- Minimal (less than 6 hours)
- Immediate (no warning time)

Choose one.

Comments

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**Q77 11.4 MAGNITUDE: How much of your community is affected by a SEVERE THUNDERSTORM event?**

'Magnitude' refers to the overall effect an incident has on the community, including property damage, injuries or personal impact, and business impacts.

- Localized (less than 10% of community)
- Limited (11-25% of community)
- Widespread (26-50% of community)
- Catastrophic (more than 50% of community)

Choose one.

Comments

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**Q78 11.5 BUSINESS IMPACT: How long are businesses impacted by a SEVERE THUNDERSTORM event affected?**

'Business Impact' refers to a business's ability to operate normally. Impact could include lack of access to critical utilities, inability of employees to report to work, limited ability to purchase necessary supplies or inventory, etc.

- Brief (less than 24 hours)
- Limited (1 to 7 days)
- Moderate (1 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q79 11.6 HUMAN IMPACT: What level of injuries or impact on people is typical of a SEVERE THUNDERSTORM incident?**

'Human Impact' refers to the level of injuries or fatalities in the community following an incident.

- Minimal (some minor injuries/no deaths)
- Low (multiple minor injuries/no deaths)
- Moderate (many minor injuries/some severe injuries)
- Significant (many severe injuries/some fatalities)

Choose one.

Comments

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**Q80 11.7 PROPERTY IMPACT: How much property damage is typical in the community during a SEVERE THUNDERSTORM event?**

'Property Impact' refers to the level of damage to buildings and structures, including residential, business/commercial, and critical facilities (such as public safety, healthcare, education, government, religion, etc.).

- Minimal (less than 10% of structures damaged/most damage is minor)
- Moderate (11-25% of structures damaged/some minor and moderate damage)
- Widespread (26-50% of structures damaged/many structures with major damage, some destroyed)
- Catastrophic (more than 50% of structures damaged/many structures destroyed or with major damage)

Choose one.

Comments

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**Q81 12.1 FREQUENCY: How often does TORNADO/WINDSTORM impact your community?**

Windstorm: an occurrence of rotational or straight-line winds that occurs independently or within a larger weather system. Tornado: an intense, rotating column of air in the shape of a funnel or rope that makes contact with the ground.

- Never/rarely (every 50 years or less)
- Low (every 20-25 years)
- Moderate (every 10-15 years)
- High (every 3-5 years)
- Excessive (at least once per year)

Choose one.

Comments

**Q82 12.2 RESPONSE DURATION: How long does the community response to TORNADO/WINDSTORM impact your community?**

'Response Duration' refers to the length of time needed to manage the incident and return the community to relatively normal function.

- Brief (half a day or less)
- Low (1 day)
- Moderate (2 to 7 days)
- Long (2 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q83 12.3 SPEED OF ONSET: How much warning time does the community have before a TORNADO/WINDSTORM event?**

'Speed of Onset' refers to the amount of warning time the community has when an incident occurs or conditions indicate that it could occur. This includes, but is not limited to, warnings issued by the National Weather Service and other government agencies.

- Extended (more than 24 hours)
- Moderate (12 to 24 hours)
- Low (6 to 12 hours)
- Minimal (less than 6 hours)
- Immediate (no warning time)

Choose one.

Comments

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**Q84 12.4 MAGNITUDE: How much of your community is affected by a TORNADO/WINDSTORM event?**

'Magnitude' refers to the overall effect an incident has on the community, including property damage, injuries or personal impact, and business impacts.

- Localized (less than 10% of community)
- Limited (11-25% of community)
- Widespread (26-50% of community)
- Catastrophic (more than 50% of community)

Choose one.

Comments

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**Q85 12.5 BUSINESS IMPACT: How long are businesses impacted by a TORNADO/WINDSTORM event affected?**

'Business Impact' refers to a business's ability to operate normally. Impact could include lack of access to critical utilities, inability of employees to report to work, limited ability to purchase necessary supplies or inventory, etc.

- Brief (less than 24 hours)
- Limited (1 to 7 days)
- Moderate (1 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q86 12.6 HUMAN IMPACT: What level of injuries or impact on people is typical of a TORNADO/WINDSTORM incident?**

'Human Impact' refers to the level of injuries or fatalities in the community following an incident.

- Minimal (some minor injuries/no deaths)
- Low (multiple minor injuries/no deaths)
- Moderate (many minor injuries/some severe injuries)
- Significant (many severe injuries/some fatalities)

Choose one.

Comments

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**Q87 12.7 PROPERTY IMPACT: How much property damage is typical in the community during a TORNADO/WINDSTORM event?**

'Property Impact' refers to the level of damage to buildings and structures, including residential, business/commercial, and critical facilities (such as public safety, healthcare, education, government, religion, etc.).

- Minimal (less than 10% of structures damaged/most damage is minor)
- Moderate (11-25% of structures damaged/some minor and moderate damage)
- Widespread (26-50% of structures damaged/many structures with major damage, some destroyed)
- Catastrophic (more than 50% of structures damaged/many structures destroyed or with major damage)

Choose one.

Comments

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**Q88 13.1 FREQUENCY: How often does WINTER STORM impact your community?**

Winter Storm: a weather event that includes multiple weather hazards, such as extremely cold temperatures, wind, snowfall, sleet, ice, rain, or freezing rain.

- Never/rarely (every 50 years or less)
- Low (every 20-25 years)
- Moderate (every 10-15 years)
- High (every 3-5 years)
- Excessive (at least once per year)

Choose one.

Comments

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**Q89 13.2 RESPONSE DURATION: How long does the community response to a WINTER STORM impact your community?**

'Response Duration' refers to the length of time needed to manage the incident and return the community to relatively normal function.

- Brief (half a day or less)
- Low (1 day)
- Moderate (2 to 7 days)
- Long (2 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q90 13.3 SPEED OF ONSET: How much warning time does the community have before a WINTER STORM event?**

'Speed of Onset' refers to the amount of warning time the community has when an incident occurs or conditions indicate that it could occur. This includes, but is not limited to, warnings issued by the National Weather Service and other government agencies.

- Extended (more than 24 hours)
- Moderate (12 to 24 hours)
- Low (6 to 12 hours)
- Minimal (less than 6 hours)
- Immediate (no warning time)

Choose one.

Comments

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**Q91 13.4 MAGNITUDE: How much of your community is affected by a WINTER STORM event?**

'Magnitude' refers to the overall effect an incident has on the community, including property damage, injuries or personal impact, and business impacts.

- Localized (less than 10% of community)
- Limited (11-25% of community)
- Widespread (26-50% of community)
- Catastrophic (more than 50% of community)

Choose one.

Comments

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**Q92 13.5 BUSINESS IMPACT: How long are businesses impacted by a WINTER STORM event affected?**

'Business Impact' refers to a business's ability to operate normally. Impact could include lack of access to critical utilities, inability of employees to report to work, limited ability to purchase necessary supplies or inventory, etc.

- Brief (less than 24 hours)
- Limited (1 to 7 days)
- Moderate (1 to 4 weeks)
- Extended (more than 1 month)

Choose one.

Comments

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**Q93 13.6 HUMAN IMPACT: What level of injuries or impact on people is typical of a WINTER STORM incident?**

'Human Impact' refers to the level of injuries or fatalities in the community following an incident.

- Minimal (some minor injuries/no deaths)
- Low (multiple minor injuries/no deaths)
- Moderate (many minor injuries/some severe injuries)
- Significant (many severe injuries/some fatalities)

Choose one.



Comments

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**Q94 13.7 PROPERTY IMPACT: How much property damage is typical in the community during a WINTER STORM event?**

'Property Impact' refers to the level of damage to buildings and structures, including residential, business/commercial, and critical facilities (such as public safety, healthcare, education, government, religion, etc.).

- Minimal (less than 10% of structures damaged/most damage is minor)
- Moderate (11-25% of structures damaged/some minor and moderate damage)
- Widespread (26-50% of structures damaged/many structures with major damage, some destroyed)
- Catastrophic (more than 50% of structures damaged/many structures destroyed or with major damage)

Choose one.

Comments

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**Q95 From your perspective, have any of these hazards WORSENE in the last 3-5 years? Are they occurring more frequently? When they occur, is the impact worse? Is the community experiencing more damage/loss as a result of these incidents than in the past?**

Select all that apply. If you do not feel there has been a significant increase in any of these hazards, select 'No change'.

- |                                                             |                                                             |
|-------------------------------------------------------------|-------------------------------------------------------------|
| <input type="checkbox"/> Drought/Extreme Heat               | <input type="checkbox"/> Earthquake                         |
| <input type="checkbox"/> Flood                              | <input type="checkbox"/> Hazardous Materials Spill/Incident |
| <input type="checkbox"/> Infrastructure - Dam/Levee Failure | <input type="checkbox"/> Infrastructure - Utility Systems   |
| <input type="checkbox"/> Infrastructure - Roads and Bridges | <input type="checkbox"/> Infrastructure - Water Quality     |

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- |                                              |                                            |
|----------------------------------------------|--------------------------------------------|
| <input type="checkbox"/> Invasive Species    | <input type="checkbox"/> Land Subsidence   |
| <input type="checkbox"/> Severe Thunderstorm | <input type="checkbox"/> Tornado/Windstorm |
| <input type="checkbox"/> Winter Storm        | <input type="checkbox"/> No Change         |

Choose all that apply.

Comments

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**Q96 From your perspective, have any of these hazards IMPROVED in the last 3-5 years? Are they occurring less frequently? When they occur, is the impact not as significant as it used to be? Does the community experiencing less damage/loss as a result of these incidents than in the past?**

Select all that apply. If you do not feel there has been a significant decrease in any of these hazards, select 'No change'.

- |                                                             |                                                             |
|-------------------------------------------------------------|-------------------------------------------------------------|
| <input type="checkbox"/> Drought/Extreme Heat               | <input type="checkbox"/> Earthquake                         |
| <input type="checkbox"/> Flood                              | <input type="checkbox"/> Hazardous Materials Spill/Incident |
| <input type="checkbox"/> Infrastructure - Dam/Levee Failure | <input type="checkbox"/> Infrastructure - Utility Systems   |
| <input type="checkbox"/> Infrastructure - Roads and Bridges | <input type="checkbox"/> Infrastructure - Water Quality     |
| <input type="checkbox"/> Invasive Species                   | <input type="checkbox"/> Land Subsidence                    |
| <input type="checkbox"/> Severe Thunderstorm                | <input type="checkbox"/> Tornado/Windstorm                  |
| <input type="checkbox"/> Winter Storm                       | <input type="checkbox"/> No Change                          |

Choose all that apply.

Comments

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**Q97 Which 3 hazards do you feel have the GREATEST impact on your community.**

Please select no more than three (3) hazards.

- |                                                             |                                                             |
|-------------------------------------------------------------|-------------------------------------------------------------|
| <input type="checkbox"/> Drought/extreme heat               | <input type="checkbox"/> Earthquake                         |
| <input type="checkbox"/> Flood                              | <input type="checkbox"/> Hazardous Materials Spill/Incident |
| <input type="checkbox"/> Infrastructure - Dam/Levee Failure | <input type="checkbox"/> Infrastructure - Utility Systems   |
| <input type="checkbox"/> Infrastructure - Roads and Bridges | <input type="checkbox"/> Infrastructure - Water Quality     |
| <input type="checkbox"/> Invasive Species                   | <input type="checkbox"/> Land Subsidence                    |
| <input type="checkbox"/> Severe Thunderstorm                | <input type="checkbox"/> Tornado/Windstorm                  |
| <input type="checkbox"/> Winter Storm                       |                                                             |

Choose all that apply.

Comments

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**Q98 Which 3 hazards do you feel have the LEAST impact on your community.**

Please select no more than three (3) hazards.

- |                                                             |                                                             |
|-------------------------------------------------------------|-------------------------------------------------------------|
| <input type="checkbox"/> Drought/extreme heat               | <input type="checkbox"/> Earthquake                         |
| <input type="checkbox"/> Flood                              | <input type="checkbox"/> Hazardous Materials Spill/Incident |
| <input type="checkbox"/> Infrastructure - Dam/Levee Failure | <input type="checkbox"/> Infrastructure - Utility Systems   |
| <input type="checkbox"/> Infrastructure - Roads and Bridges | <input type="checkbox"/> Infrastructure - Water Quality     |
| <input type="checkbox"/> Invasive Species                   | <input type="checkbox"/> Land Subsidence                    |
| <input type="checkbox"/> Severe Thunderstorm                | <input type="checkbox"/> Tornado/Windstorm                  |
| <input type="checkbox"/> Winter Storm                       |                                                             |

Choose all that apply.

Comments

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**Q99** Please provide any additional comments on the hazards that impact your community.



Thank you for completing the hazard assessment survey. Your input is greatly appreciated.