Hazard Mitigation Plan Update

Hazard Identification Meeting

October 27, 2022
9:30-10:30 am
Agenda

- Safety Moment
- Welcome and Introductions
- Mitigation Successes
- Mitigation Projects and Research
- Planning Process
- Data Collection and Hazard Identification
- Next Steps
Safety Moment

Voice over Internet Protocol (VoIP) - transmission of voice and multimedia over internet connection

VoIP allows you to make calls from your computer (Teams)

ES Operators cannot geolocate if working remote (home/travel/field)

You must provide ES Operator with your physical address

If possible, use a landline to call ES
Welcome and Introductions
## Welcome and Introductions

<table>
<thead>
<tr>
<th>University of Kentucky Team – Planning Team</th>
<th>Stantec Team</th>
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<tbody>
<tr>
<td>➢ Laurel Wood</td>
<td>➢ Kristen Hewes</td>
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<td>➢ Joe Monroe</td>
<td>➢ Christina Hurley</td>
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<td>➢ Nathan Brown</td>
<td>➢ Rebecca Leitschuh</td>
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<td>➢ Mandi Banahan</td>
<td>➢ John Bucher</td>
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<td>➢ Veronda Holcombe Lewis</td>
<td>➢ Mike Greene</td>
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<td>➢ Jay Overman</td>
<td>➢ Matthew Moy</td>
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<td>➢ Cory Pelarski</td>
<td>➢ Sam Lee</td>
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<td>➢ Robert Turner</td>
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<td>➢ Sally Woodson</td>
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Recent Events – December Tornado, July Flooding

A key UK agriculture station that helps Kentucky farmers was destroyed by tornadoes

BY JANET PASTON
UPDATED AUGUST 03, 2022 3:35 PM

The UK Research and Education Center in Princeton took a direct hit from the powerful tornado that began in northwestern Arkansas and carved a path of destruction across the western half of Kentucky.

BY UNIVERSITY OF KENTUCKY
UK Mitigation Successes

- Blue Emergency Notification Towers
- WUKY Main Transmission Site
- Robinson Forest
- Tornado Safe Rooms
- Nicholasville Road, Culvert Upgrade and Alumni Drive Mitigation Project
  - 1,300 Linear Feet Stream Restoration
  - Detention Basins
  - Permeable Pavement
UK Projects and Research

- Disaster Preparedness Toolkit for Older Adults
- UK Professor Designing More Sustainable Future for Appalachia
- Federal Grant Will Help KGS Researchers Develop Landslide Models, Risk Assessments in Eastern Kentucky
- UK Project Aims to Reduce Sinkhole-related Damage
- UK Animal Resource Exercise Will Help Prepare for Emergencies
Why are we updating the plan?

- Meet FEMA requirements for funding
- Build on previous successes
- Integrate with other plans and efforts
- Continued improvement - More actionable plan with improved coordination
- New FEMA guidelines
  - Climate Integration
  - Equity Considerations
## Hazard Mitigation Plan Sections

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
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<tbody>
<tr>
<td>Element A.</td>
<td>Planning Process</td>
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<td>Element B.</td>
<td>Hazard Identification &amp; Risk Assessment</td>
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<td>Element C.</td>
<td>Mitigation Strategy</td>
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<td>Element D.</td>
<td>Plan Maintenance</td>
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<td>Element E.</td>
<td>Plan Adoption</td>
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Risk Assessment
Risk Assessment

General process:

- Data collection
- Hazard identification
- Profiles (current and future considerations)
- Structure-based results

FEMA profile requirements:
- Description
- Location
- Previous Occurrences
- Probability
- Severity
- Vulnerability

Hazards:
- Dam Failure
- Drought
- Earthquake
- Extreme Temperature
- Flood
- Forest Fire
- Hailstorm
- Karst/Sinkhole
- Landslide
- Severe Storm
- Severe Winter Storm
- Tornado
- *Hazardous Materials
- *Emerging Infectious Diseases
- *Cybersecurity Threats
Risk Assessment Data Collection

**University-provided data:**
- GIS building footprints
- Hazard loss data for all recorded hazard occurrences (e.g., claims data)
- Building replacement values
- Building content values (included research and research equipment)
- Building condition codes
- Building hazardous contents
- Building occupancy
- Critical facilities

**Additional sources:**
- UK’s open data portal
- LFUCG
- Kentucky Area Development Districts
- Kentucky Geological Survey
Capability Assessment Data Collection

- UK Planning Documents
- Local Planning Documents that impact UK
- Stakeholder Interviews (Internal and external as determined by UK)
Mitigation Strategy
Mitigation Strategy

- Review Goals
- Review Existing Actions
- Develop New Actions
  - Risk assessment results
  - Capability assessment results
  - Interviews
  - University planning documents
  - Steering Committee
  - University input

- Outcomes
  - More actionable plan, with improved coordination and documentation
Adoption and Plan Maintenance
Adoption and Plan Maintenance

- Regularly scheduled check in meetings
- Document progress and needs
- Coordinating funding and grant opportunities

Western Kentucky Tornadoes Spur Engineering Undergrad Research
Hazard Identification
Hazard Identification

Place holder for hazard ranking poll
Hazard Identification

Place holder for climate change impact ranking poll
Next Steps

➢ Complete the Survey
➢ Provide information on the maps
➢ Visit the website for project updates

Hazard Mitigation Plan | University of Kentucky Police Department (uky.edu)
Questions and Contact Information

Laurel Wood
laurel.wood@uky.edu
859-257-6655

Kristen Hewes
kristen.hewes@stantec.com
502-595-8238

John Bucher
john.bucher@stantec.com
828-242-4384

Christina Hurley
christina.hurley@stantec.com
910-540-9215

Thank you!