

Dear Colleague:

Thanks to your notable contributions to the university community in the past, as well as the efforts of your colleagues, the University of Kentucky Hazard Mitigation Plan was approved in February 2010 and again on March 10, 2016.

The Plan has kept the university in compliance with federal hazard mitigation planning standards resulting from the Disaster Mitigation Act of 2000, as contained in 44 CFR 201.6. The current Plan is approved for a period of five years. As a result, UK is eligible to apply for state and federal funds for mitigation and disaster assistance grant programs administered by the Federal Emergency Management Agency (FEMA).

This plan is a critical part of how we take care of our people — a core principle in UK's strategic plan. In this spirit, I ask for your commitment to the 2023 University of Kentucky Hazard Mitigation Plan Update. Steering Committee members will include university stakeholders throughout campus and the greater Lexington community. Your contributions and expertise will guide hazard mitigation activities over the coming years.

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1. Protect lives
2. Protect university property
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The 2023 update to the University of Kentucky Hazard Mitigation Plan will be a collaborative effort between the UK Police Department's (UKPD) Division of Crisis Management and Preparedness; the UK Hazard Mitigation Plan Steering Committee; state and local agencies; and Stantec Consulting Services, Inc.

In the coming months, you will begin receiving invitations to participate in five Steering Committee meetings that will be held on campus and will take place between September 2022 and May 2023.

I deeply appreciate your willingness to serve our community in such an important way and look forward to your involvement and input. For more information, please do not hesitate to contact Laurel Wood, Director of Business Continuity for UKPD, at [cmp@uky.edu](mailto:cmp@uky.edu) or 859-257-6655. You also can find more information [here](#).

Thank you for all you do to advance Kentucky.

Eric Monday  
Executive Vice President for Finance and Administration





# Hazard Mitigation Plan Update

## Steering Committee Meeting

September 29, 2022  
10 a.m. – 12 p.m.

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 Division of Crisis  
Management & Preparedness



# Agenda



- Safety Moment
- Welcome and Introductions
- Mitigation Successes
- What is Hazard Mitigation?
- Review of Planning Process
  - Schedule
  - Steering Committee Roles
  - University Involvement
  - Risk Assessment/Data Collection
  - Capability Assessment
  - Mitigation Strategy
  - Adoption and Plan Maintenance
- Funding Opportunities
- Next Steps



## Invasive Species

- Report sightings to your local authority
- Plant native plants in your yard
- Regularly clean your outdoor equipment



# Welcome and Introductions

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## University of Kentucky Team – Planning Team

## Stantec Team

➤ Laurel Wood

➤ Joe Monroe

➤ Nathan Brown

➤ Mandi Banahan

➤ Veronda Holcombe Lewis

➤ Jay Overman

➤ Cory Pelarski

➤ Robert Turner

➤ Sally Woodson

➤ Kristen Hewes

➤ Christina Hurley

➤ Rebecca Leitschuh

➤ John Bucher

➤ Mike Greene

➤ Matthew Moy

➤ Sam Lee



# Welcome and Introductions

## Steering Committee

---



1. Name
2. Department or Agency
3. Do you have experience with hazard mitigation planning?
4. How can you help?





# Recent Events – December Tornado, July Flooding



KENTUCKY

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

BY JANET PATTON  
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

### Historic July 26th-July 30th, 2022 Eastern Kentucky Flooding

Jackson, KY  
Weather Forecast Office

[Weather](#) > [Jackson, KY](#) > [Historic July 26th-July 30th, 2022 Eastern Kentucky Flooding](#)

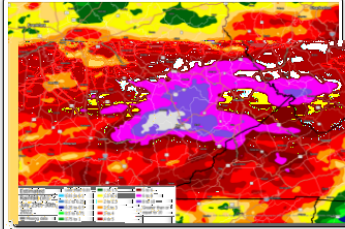

[Current Hazards](#)   [Current Conditions](#)   [Radar](#)   [Forecasts](#)   [Rivers and Lakes](#)   [Climate and Past Weather](#)   [Local Programs](#)

#### Overview

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Estimated rainfall totals from July 25th through July 30th, 2022 via NCEP Stage IV precipitation data.

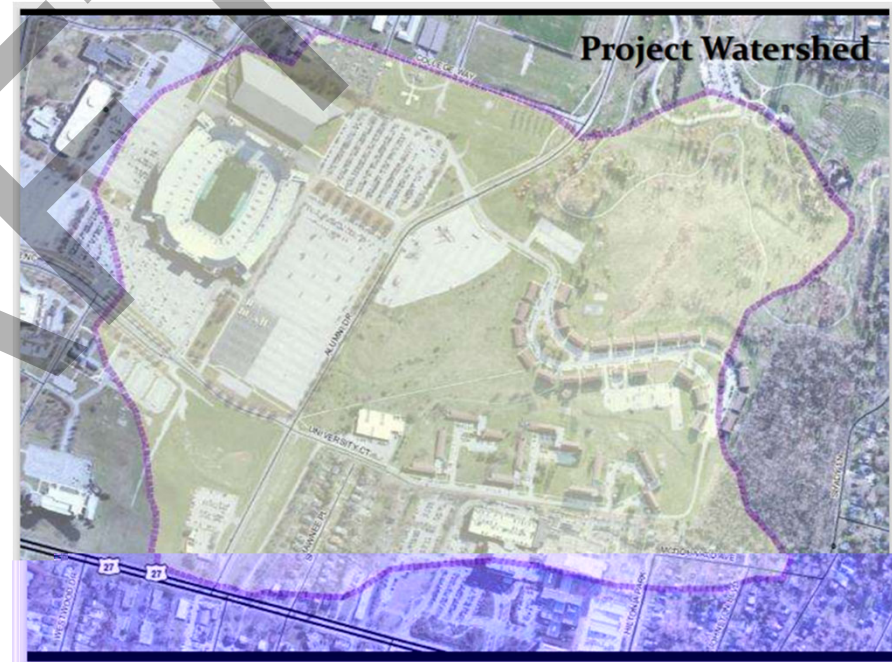
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# UK Mitigation Successes



- 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



# 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

Campus News

## UK specialists offer flood clean-up strategies

By Aimee Nielson Aug 3, 2022



Flooding in Whitesburg, Letcher County. Photo by Shad Baker, UK extension agent for agriculture and natural resources.

**Media Resources**

**CONTACT**  
DANIELLE DONHAM  
danielle.donham@uky.edu  
859-562-2660

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# Planning Process

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# Hazard Mitigation Plan Sections



**Element A.** Planning Process

**Element B.** Hazard Identification & Risk Assessment

**Element C.** Mitigation Strategy

**Element D.** Plan Maintenance

**Element E.** Plan Adoption



## Local Mitigation Planning Handbook

March 2013



## Steering Committee Workshops



1. **Kick-off** - Today
2. **Hazard Identification** – Thursday, 10/27
3. **Risk Assessment** – Tuesday, 12/6
4. **Mitigation Strategy** – Late January
5. **Draft Plan** – April



2015 Plan Update Steering  
Committee Meeting

## Steering Committee Roles

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### University Outreach

- Participate in workshops
- Share information regarding the planning process

### Share knowledge

- University hazards
- Data
- Capability Assessment
- Mitigation Strategy

### Review Draft Plan

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2015 Plan Update Steering Committee Meeting

# University Involvement

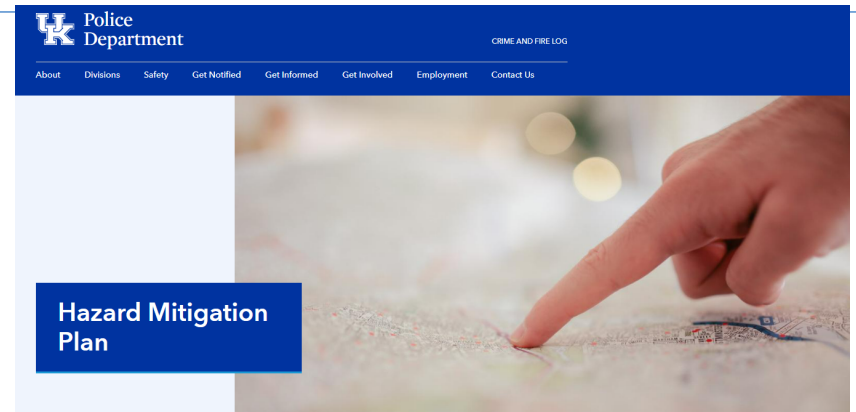
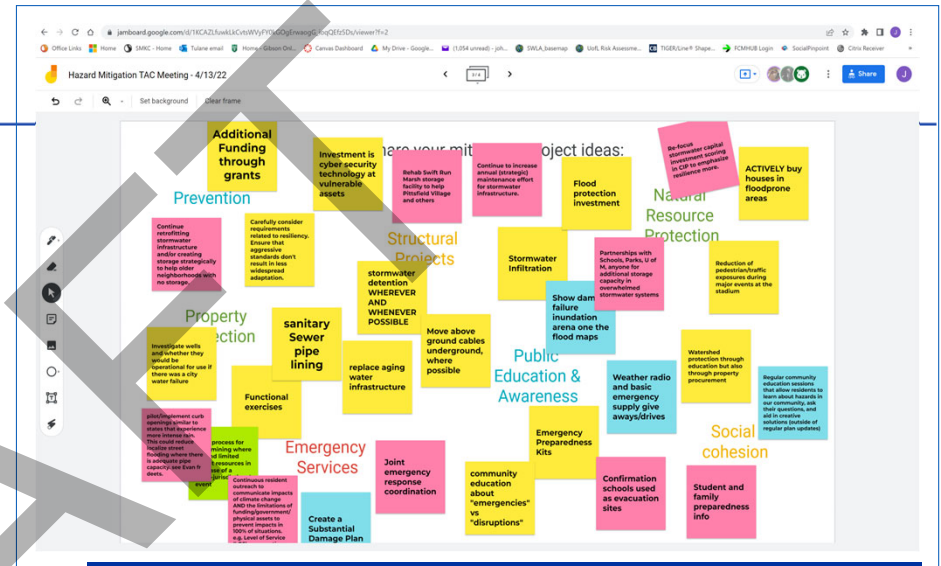


## Hazard Identification Workshop

## Draft Plan Workshop

## Online Engagement

- Survey
- Jamboard
- Website: [Hazard Mitigation Plan | University of Kentucky Police Department \(uky.edu\)](https://www.uky.edu/pd/hazard-mitigation-plan)





# Risk Assessment

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# 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



# 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





# Mitigation Strategy

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# 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

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## Farmers, Tornado Victims Help Others Recover

By Jeff Franklin and Katie Pratt March 15, 2022





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## Mission Statement

The University of Kentucky (UK) Hazard Mitigation Plan (HMP) update is designed to sustain the university by mitigating damage and losses caused by natural hazards.

### GOAL 1

Protect lives and reduce injuries from hazards and threats.

### GOAL 2

Protect university property, organizational information, and research from hazards and threats.

### GOAL 3

Enhance existing, or develop new University policies and practices that are designed to reduce damaging effects from hazards and threats.

### GOAL 4

Build stronger partnerships between government, educational institutions, business, and the community.

### GOAL 5

Build disaster preparedness through mitigation education and outreach.



**1** Protect lives and minimize injuries from hazard events.

CHAMPS Module(s)	Action	Benefit-Cost	Timeframe	Hazards Addressed	Description	Offices Responsible	Funding
Projects Manage Projects	1.1	Medium	1-2 years	Flood	Construct retention and channel modification projects (Alumni Drive).	Facilities Management	Grants Internal External
Projects Apply for Funds	1.2	High	3-5 years	Applicable to All Identified Hazards	Install Generators at identified university facilities.	CMP Physical Plant Division College of Agriculture	Internal External
-	1.3	Very High	As Needed	Forest Fire	Conduct fuel break restoration (4-H camps).	College of Agriculture	Internal
Projects Apply for funds	1.4	Very High	When Needed	Severe Storm Tornado	Identify NWS approved shelters/FEMA safe rooms within new and existing buildings.	CMP EHS	Internal
Projects Apply for funds	1.5	High	2-4 years	Earthquake Severe Storm Tornado	Build storm shelters/safe rooms for 4-H camps and apply seismic retrofits to Western KY 4-H camps near the New Madrid fault.	CMP College of Agriculture CPM	Internal External
Projects Apply for funds	1.6	High	When Needed	Applicable to All Identified Hazards	Identify and procure additional warning communication systems (digital media boards, network pop-ups, voice-over IP, etc.).	MP Div. of Student Affairs Housing IT	Internal External
Projects Apply for funds	1.7	High	When Needed	Severe Storm Tornado	Identify areas and pursue safe room construction.	CMP College of Agriculture	Internal External
-	1.8 (new)	Medium	3-5 years	Karst/Sinkhole	Conduct assessment, monitor and incorporate structural designs and new construction requirements for areas susceptible to subsidence including non-campus facilities.	CMP CPM Facilities Information Service Facilities Management GIS Kentucky Geological Survey	Internal





# Adoption and Plan Maintenance

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## 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



# Funding Opportunities

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# Funding Opportunities



- Hazard Mitigation Grant Program (HMGP)
- Flood Mitigation Assistance (FMA)
- Building Resilient Infrastructure and Communities (BRIC)



Entrance of the Robinson Center for Appalachian Resource Sustainability (RCARS). Photo by Daniel Wilson.

## Next Steps

DRAFT

## Next Steps



- University Hazard Identification Meeting on October 27, 2022
- Data Collection for Risk and Capability Assessments
- Interviews
- Review Mitigation Strategy



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# Questions and Contact Information



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**Kristen Hewes**

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**502-595-8238**

**John Bucher**

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**828-242-4384**

**Christina Hurley**

[christina.hurley@stantec.com](mailto:christina.hurley@stantec.com)

**910-540-9215**



**Thank you!**









# Hazard Mitigation Plan Update

## Hazard Identification Meeting

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

---

 Division of Crisis  
Management & Preparedness



# Agenda



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



Hazard Mitigation  
Plan



# Safety Moment



**Using VoIP to Call  
Emergency Services (ES)**

**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**

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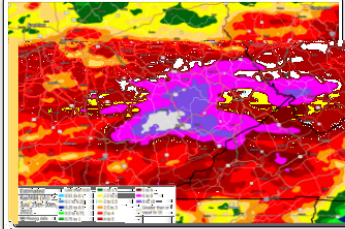

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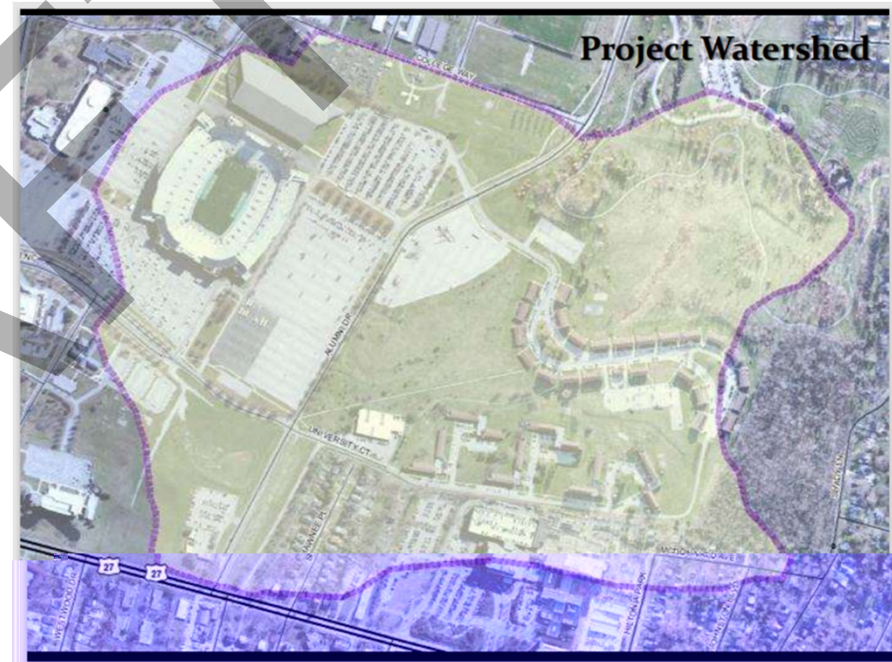
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## UK Projects and Research



- 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

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By Aimee Nielson Aug 3, 2022



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# Hazard Mitigation Plan Sections



**Element A.** Planning Process

**Element B.** Hazard Identification & Risk Assessment

**Element C.** Mitigation Strategy

**Element D.** Plan Maintenance

**Element E.** Plan Adoption



## Local Mitigation Planning Handbook

March 2013



FEMA

# Risk Assessment

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# 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
- Wildfire
- 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)

### Incorporation into Existing Planning Mechanisms

**Requirement §201.6(c)(4)(ii):** [The plan shall include a] process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.



Map of all UK athletics facilities

Photo Source: <http://www.ukathletics.com/athletic-dept/facilities.html>



# Mitigation Strategy

DRAFT

# Mitigation Strategy





- Review Goals
- Review Existing Actions
- Develop New Actions
  - Risk assessment results
  - Capability assessment results
  - Interviews
  - University planning documents
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  - University input
- Outcomes
  - More actionable plan, with improved coordination and documentation

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# Adoption and Plan Maintenance

DRAFT

## 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



# Data Collection

DRAFT

# Hazard Identification

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## Hazard Ranking Poll

<https://www.menti.com/>

Code = 8307 6972



## Hazard Identification

<https://www.menti.com/>

Code = 8307 6972



**Please select the three hazards you are most concerned about.**

- Dam Failure
- Drought
- Earthquake
- Extreme Temperature
- Flood
- Wildfire
- Hailstorm
- Karst/Sinkhole
- Landslide
- Severe Storm
- Severe Winter Storm
- Tornado
- \*Hazardous Materials
- \*Emerging Infectious Diseases
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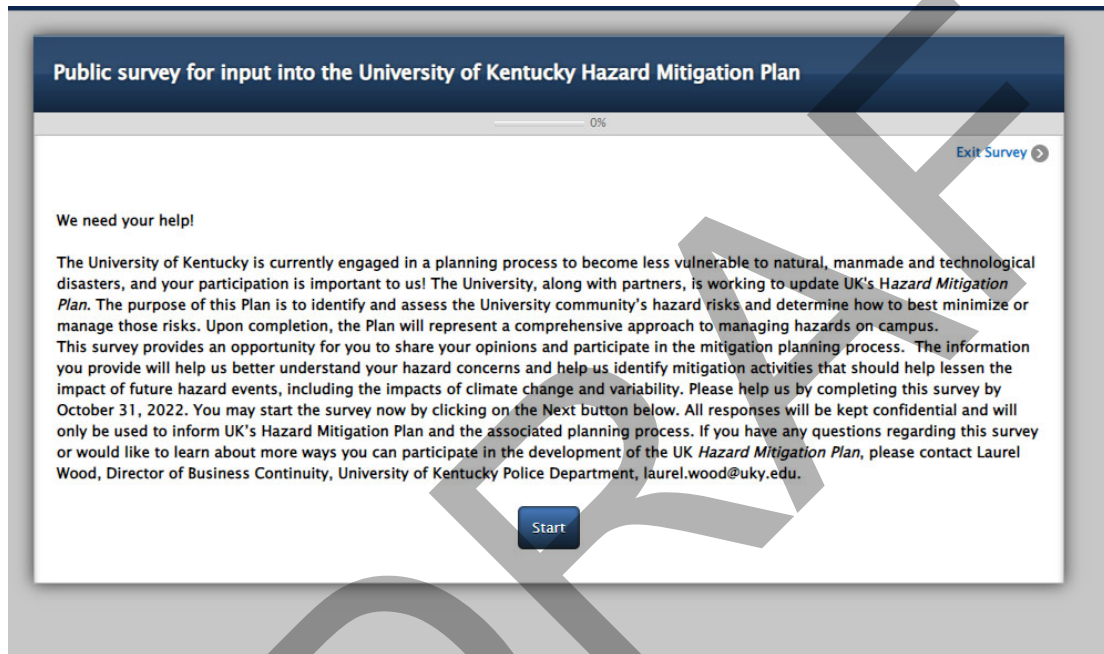


**Please select the three climate change impacts you are most concerned about.**

- Loss and change of vegetation (including trees)
- Habitat disruption
- Reduced air quality
- Increased heat wave intensity and frequency
- More extreme and more frequent rainfall events (more frequent flooding)
- More extreme and more frequent winter storm events (including ice storms)
- More extreme and more frequent thunderstorm events (including tornadoes)
- In-migration of people to the area from areas more severely impacted by climate change



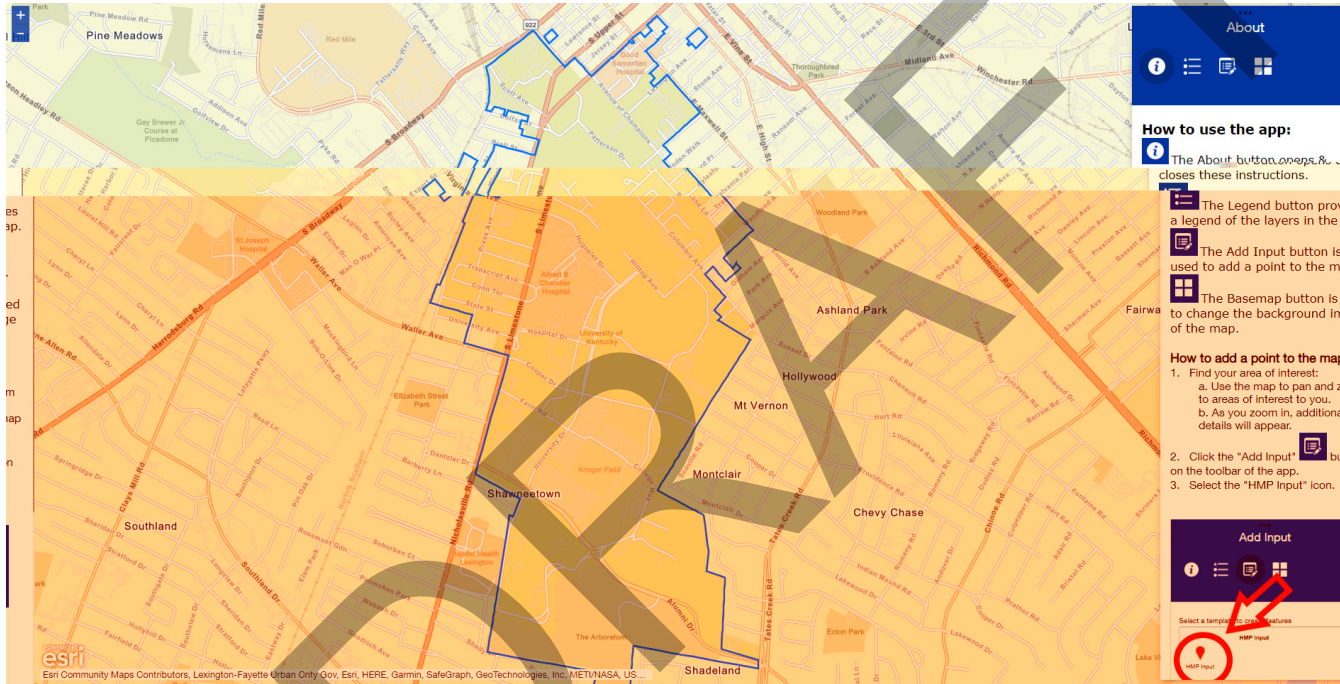
# Online Hazard Identification – Complete the Survey



[Hazard Mitigation Plan | University of Kentucky Police Department \(uky.edu\)](#)



# Online Hazard Identification



[Hazard Mitigation Plan | University of Kentucky Police Department \(uky.edu\)](#)

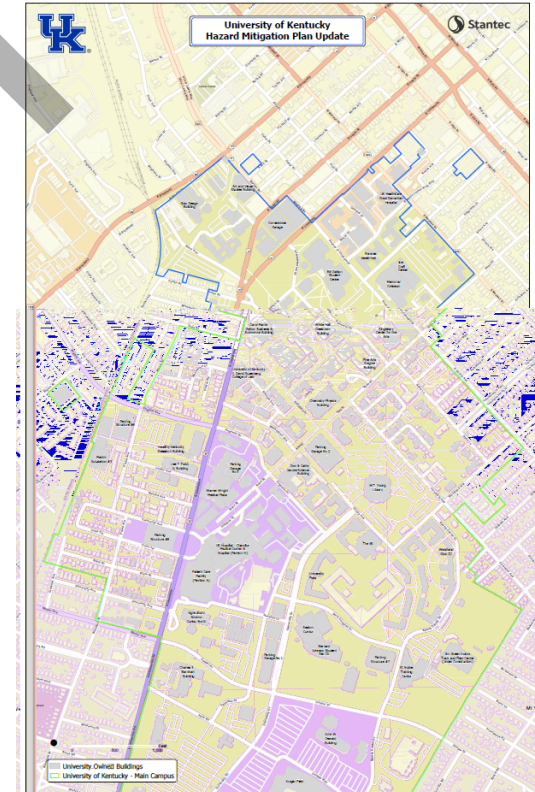




# In-Person Hazard Identification



- North and South Lexington Campus Map
  - Capture main campus hazards
- Fayette County Map
  - Capture hazards at UK facilities off-campus
- Statewide Map
  - Capture hazards at UK facilities outside of Fayette County



# Hazard Identification Locations



## University of Kentucky Campuses

- University of Kentucky - Main Campus
- Little Research Center/Woodford Farm Campus
- North Farm Campus (includes North Farm Agricultural Center and Eastern State Hospital)
- South Farm Campus
- Robinson Forest Campus
- West Kentucky Substation (Research and Education Center at Princeton) Campus
- Paducah Campus (located on the West Kentucky Community and Technical College Campus)
- Hazard Campus
- College of Medicine at Bowling Green Campus
- College of Medicine at Northern Kentucky, Highland Heights Campus
- College of Medicine at Northern Kentucky, Edgewood Campus

## Other Locations

- UK Medical Facilities
- 4-H Camps
- Cooperative Extension Offices



## Next Steps

DRAFT

## Next Steps



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

[Hazard Mitigation Plan | University of Kentucky Police Department \(uky.edu\)](#)



Aerial view of the UK Research and Education Center after it took a direct hit from a weekend tornado. Photo by Matt Barton, UK agricultural communications.



# Questions and Contact Information



**Laurel Wood**

[laurel.wood@uky.edu](mailto:laurel.wood@uky.edu)

**859-257-6655**

**Kristen Hewes**

[kristen.hewes@stantec.com](mailto:kristen.hewes@stantec.com)

**502-595-8238**

**John Bucher**

[john.bucher@stantec.com](mailto:john.bucher@stantec.com)

**828-242-4384**

**Christina Hurley**

[christina.hurley@stantec.com](mailto:christina.hurley@stantec.com)

**910-540-9215**



**Thank you!**







# Hazard Mitigation Plan Update

## Steering Committee Meeting

March 21, 2023  
1:30-3:00 pm

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 Division of Crisis  
Management & Preparedness



# Agenda



- Safety Moment
- Project Update
- Data collection
  - Data from UK Departments
  - Interviews
- Risk Assessment
- Survey
- Mitigation Strategy
  - Goals
  - Mitigation Actions



Aerial view of the UK Research and Education Center after it took a direct hit from a weekend tornado. Photo by Matt Barton, UK agricultural communications.





# Safety Moment





## Stop & Talk: How to Safely Use Public Wi-Fi Networks

Health, Safety, Security, & Environment SaferTogether

Wi-Fi hotspots in coffee shops, libraries, airports, hotels, universities, and other public places are convenient, but often they are not secure. If you connect to a public Wi-Fi network and send information through websites or mobile apps, someone else might be able to see it. Here are some ways to safely use public Wi-Fi when you're out and about.

### Public Wi-Fi Isn't Secure

- If the network isn't secure, and you log into an unencrypted site — or a site that uses encryption only on the sign-in page — other users on the network can see what you see and send.
- A scammer could use your account to impersonate you and scam people on your contact lists or test your usernames and passwords on other websites — including sites that store your financial information.
- If a scammer gets your personal or financial information, they could steal your identity.
- When you sign on to public Wi-Fi, you may also be sharing your data with the companies providing the Wi-Fi.



### Ways to Encrypt Your Information

- **Connect to websites securely.** If you see https in the web address, you have a secure connection to the website. But using https **does not** mean a website is legit.
- **Consider using a VPN app.** Some virtual private networks, known as VPNs, offer encryption.
- **Use your mobile data, as it is usually encrypted.** If you're on the go, don't have the option of using a secure website and have no VPN encryption, consider using your mobile data instead of Wi-Fi.

### Protect Your Information When You Use Public Wi-Fi

- Don't access your personal or financial information.
- Log in or send personal information only to websites you know are fully encrypted.
- Don't stay permanently signed into accounts.
- Don't use the same password on different websites.
- Pay attention to warnings.
- Change your device's settings so it doesn't automatically connect to nearby Wi-Fi.
- Install browser add-ons or plug-ins that can help.

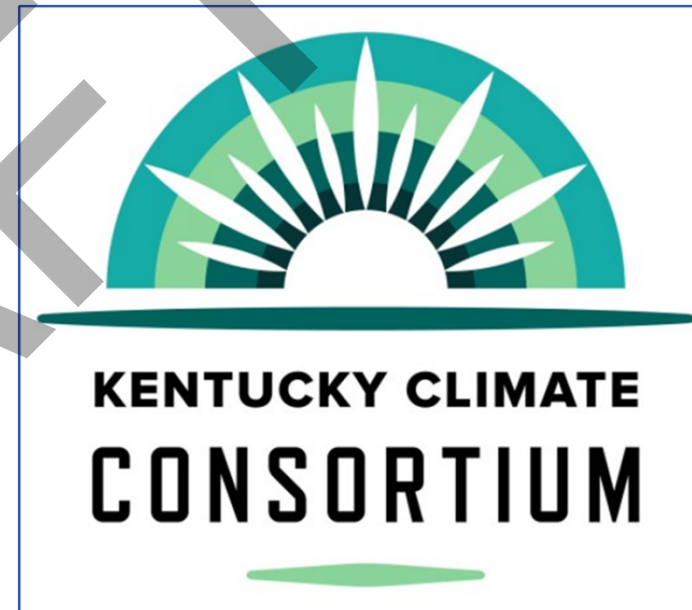
Information provided by [How To Safely Use Public Wi-Fi Networks](#) | [FTC Consumer Information](#)



## Project Update



- Plan Components:
  - Critical Facilities Defined
  - Risk Assessment
  - Capability Assessment
  - 2016 Mitigation Action Workbook
    - 2016 Actions Updated
- Upcoming Meetings
  - Draft Plan Meeting (April 27 or 28, 2023)
  - Mitigation Strategy Steering Committee Meeting (TBD)



# Project Update



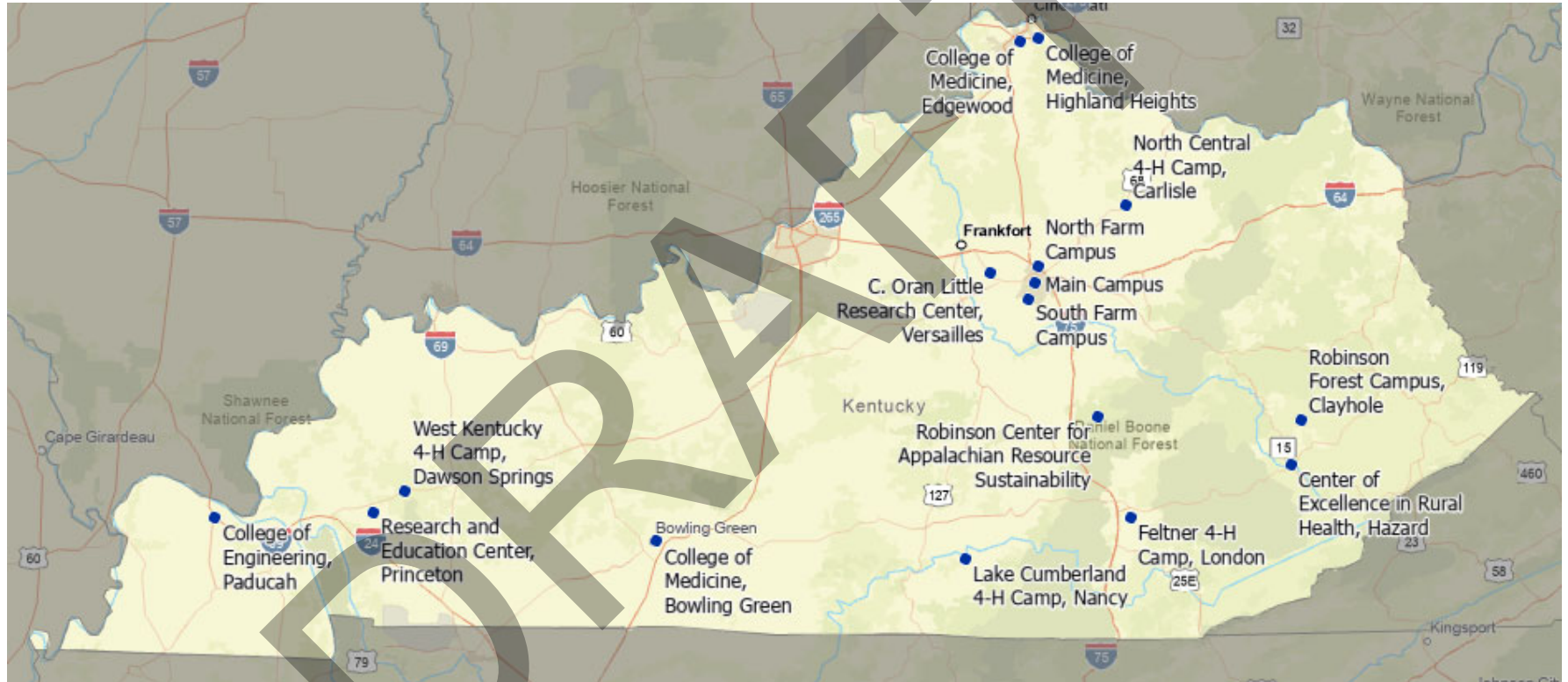
- Completed Data Collection
- Interviews Performed:
  - Risk Management
  - Research
  - GIS
  - Facilities
  - Hazardous Materials
  - IT
  - Agriculture
  - Health Care
  - Equity – Office for Institutional Diversity
  - Kentucky Climate Consortium



The Grain and Forage Center of Excellence at the University of Kentucky Research and Education Center in Princeton was damaged by a powerful tornado last weekend.. *Matt Barton | UK College of Agriculture*



# Campus Locations



## Risk Assessment – Hazards Reviewed



### Weather Hazards

- Extreme Heat
- Extreme Cold
- Wildfire
- Hail
- Severe Storm
- Severe Winter Storm
- Tornado



### Hydrological Hazards

- Flood
- Drought
- Dam/Levee Failure



### Geological Hazards

- Earthquake
- Landslide
- Karst



### Industrial Hazards

- Hazardous Materials Release



### Human-Caused Hazards

- Cyber Attack
- Emerging Infectious Disease

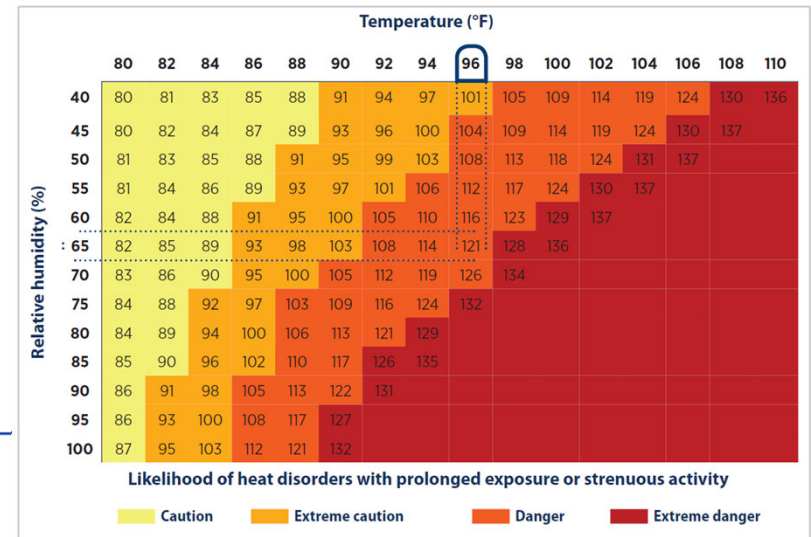


# Extreme Heat



- All buildings, infrastructure and populations are considered at risk to extreme heat on UK's main campus and outlying facilities.
- Building Risks
  - Power outages
  - Stress to HVAC systems
  - Buckling/collapse in extreme cases
- Infrastructure Risks
  - Power outages
  - Pavement buckling

- Population Risks
  - Heat-related illness (heat stroke, heat exhaustion, dehydration)
  - Air quality impacts
  - Populations at higher risk: socially vulnerable, athletic teams, outdoor workers, populations in dorms without AC, outdoor sporting events



## Extreme Cold



- All buildings, infrastructure and populations are considered at risk to extreme cold on UK's main campus and outlying facilities.
- 35 extreme cold-related claims between 2012 and 2022 totaling \$1.4M
- Building Risks
  - Burst pipes
  - Stress on HVAC systems
  - Power outages
  - Increased risk of fire from alternative heating sources
- Infrastructure Risks
  - Disrupted utility services
  - Broken water mains
  - Stress to asphalt and pavement
- Population Risks
  - Hypothermia and frostbite
  - Carbon monoxide
  - Socially vulnerable populations at higher risk



## Severe Storm



- All buildings, infrastructure and populations are considered at risk to severe storm on UK's main campus and outlying facilities.
- Building Risks
  - Building features being blown off
  - Falling objects and debris
  - Buildings being blown off their foundation
  - Mobile and modular units are at more severe risk
  - Lightning strikes can start fires
  - Roof leaks
- Infrastructure Risks
  - Severe winds and debris can damage utilities, communications, and above ground power
  - Electrical systems, telecommunications equipment, and infrastructure in open areas are more vulnerable to lightning
- Population Risks
  - Falling objects and debris
  - People outside are at risk of being struck by lightning
  - Agricultural researchers face higher exposure





## Severe Winter Storm



- All buildings, infrastructure, and populations are considered at risk to severe winter weather
- Building Risks
  - Power outages can result in limited food, supplies, and heat
  - Extreme cold leading to freezing or bursting pipes
  - Roof collapse from snow accumulation
- Infrastructure Risks
  - Road conditions
  - Limited transit operations
  - Critical staff may be unable to reach campus
- Population Risks
  - Falling while walking or removing snow
  - Heart attacks from shoveling snow
  - Falling ice, trees, or branches
  - Agricultural researchers may have more exposure
  - International students may remain on campus with only essential staff during winter breaks



# Tornado Profile



- All current and future buildings, infrastructure, and populations are considered at-risk to tornadoes, including critical facilities
- Eastern, northeastern, and southeastern parts of Kentucky are far less likely to experience tornadoes than the western end of Kentucky.
- Central Kentucky has moderate tornadic and severe wind activity.
- Building Vulnerabilities
  - Buildings can be destroyed
  - Debris hurled by the wind can cause extensive damage
  - Structures most likely to suffer damage:
    - Mobile homes or units
    - Structures with crawlspaces
    - Buildings with large spans (ex. gymnasiums)
- Infrastructure Vulnerabilities
  - Damage to exposed utilities can result in hazardous material spills and leaks
- Population Vulnerabilities
  - Universities have large numbers of people present and others may seek shelter
  - People outside or driving may be struck by flying debris or picked up by tornado winds
  - Agricultural researchers may be unable to reach shelter quickly



# Drought

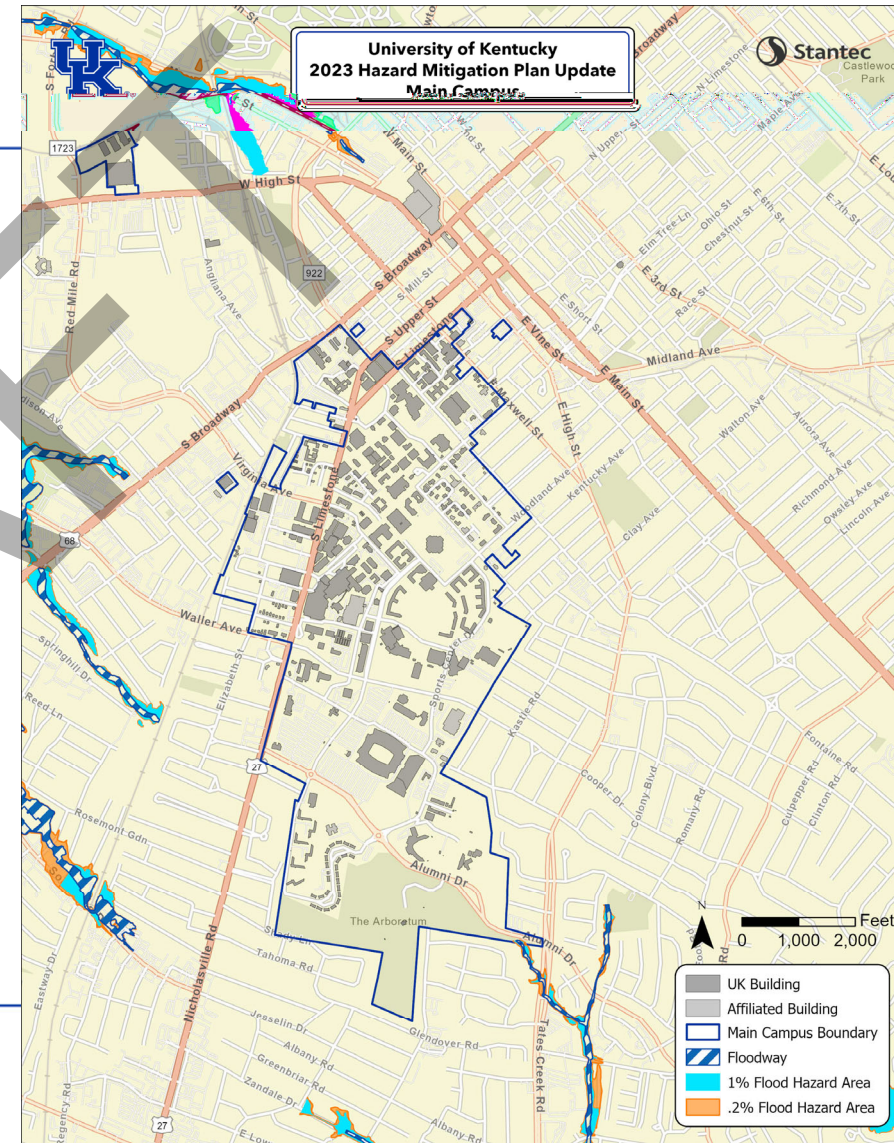


- All buildings, infrastructure and populations are considered at risk to drought on UK's main campus and outlying facilities.
- Building / Facility Risks
  - Water shortages
  - Impacts to livestock
- Infrastructure Risks
  - Impacts to green infrastructure
  - Impacts to greenspace and outdoor facilities
  - Impacts to agricultural facilities and research
- Population Risks
  - Water use restrictions or higher pricing
  - Insufficient water supply for firefighting (extreme cases)
- Secondary Risks
  - Increased susceptibility to wildfire during drought periods



# Flood Profile

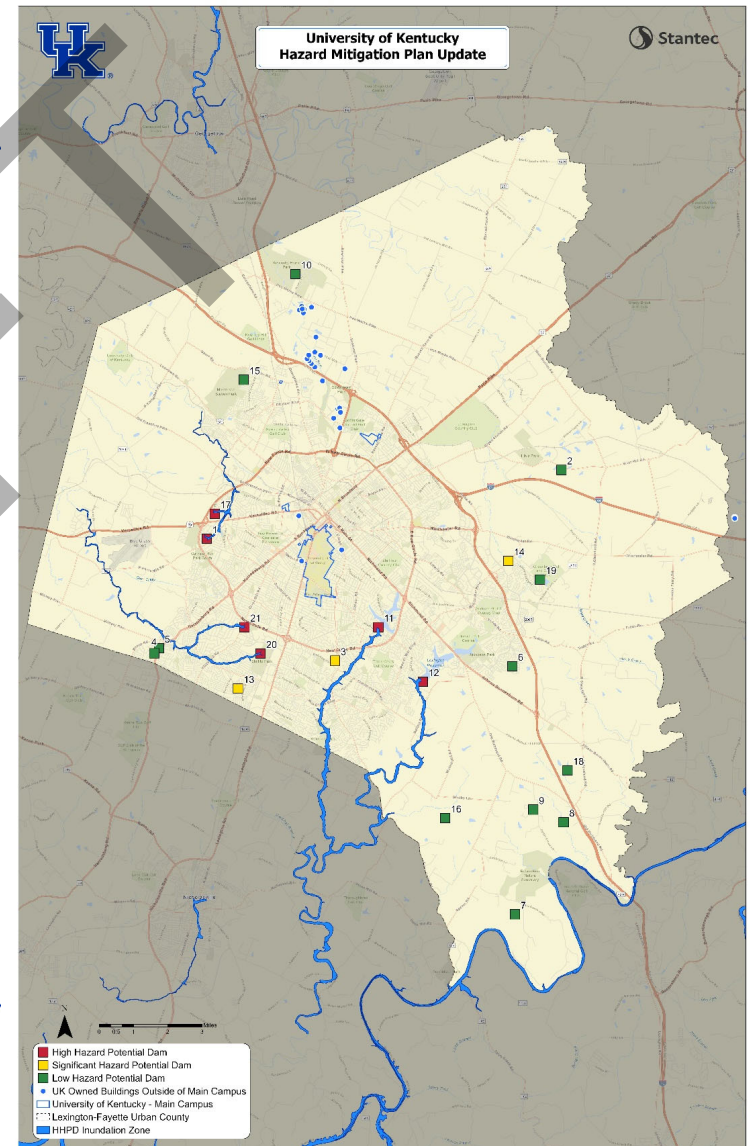
- All buildings, infrastructure, and populations at risk, those in FEMA Flood Hazard Areas are considered at highest risk
- No main campus facilities within FEMA Flood Hazard Areas
- 11 facilities within the 1.0% Annual Chance Flood Hazard Area (100-yr)
  - 3 at the North Farm
  - 5 at RCARS
  - 3 at the West Kentucky 4-H Camp
- 5 facilities within the 0.2% Annual Chance Flood Hazard Area (500-yr)
  - 1 at the North Farm
  - 4 at RCARS



## Dam / Levee Failure

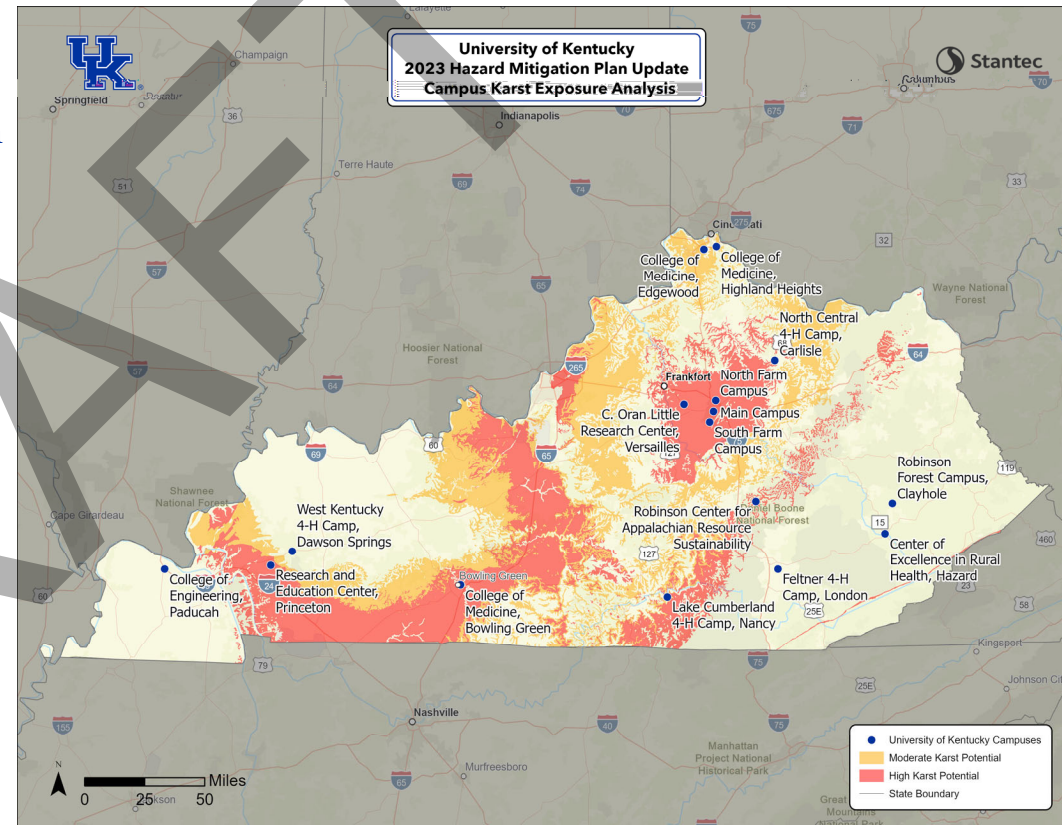


- Buildings, infrastructure, and populations in dam inundation areas or reduced flood risk levee areas are considered at risk to dam failure/ levee failure.
- No UK facilities were identified to be in or within 500 feet of a HHPD inundation area or reduced flood risk area
- Due to the topography, inundation areas in Fayette County show water flowing away from main campus

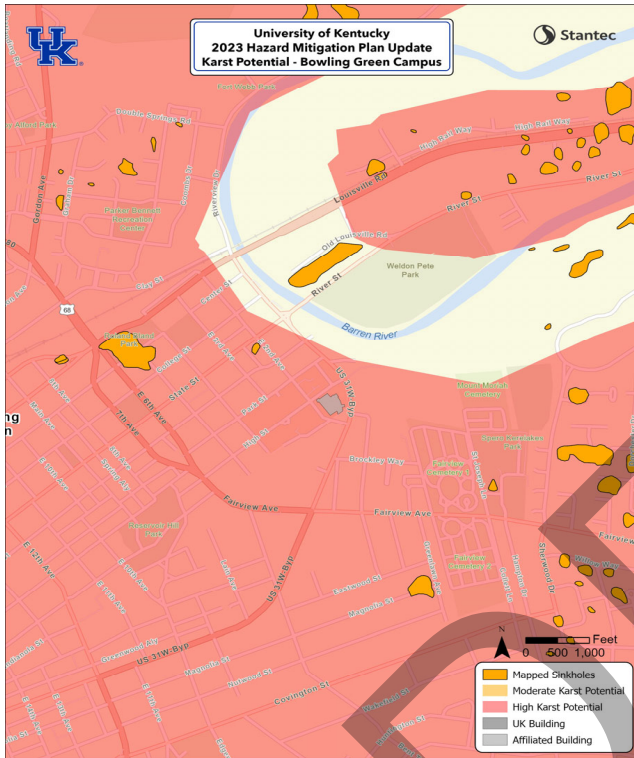


## Karst Profile

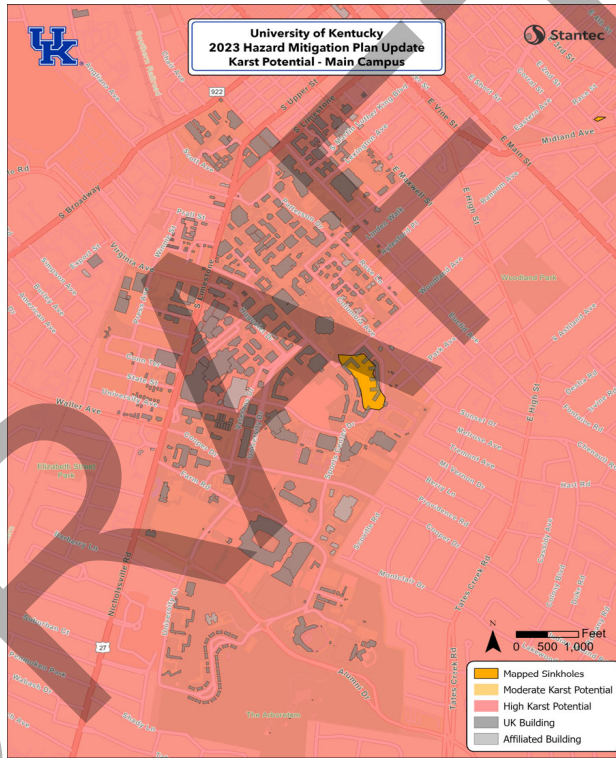
- University buildings, populations, and infrastructure located in moderate or high karst potential are considered at risk.
- Includes all the buildings on the Main Campus, North Farm Campus, South Farm Campus, the Little Research Center, and others.
- 27 critical facilities within the high karst potential area.
  - 26 are on Main Campus
  - 1 is an affiliated building (UK Specialty Pharmacy - Wellington Patient Support Services)



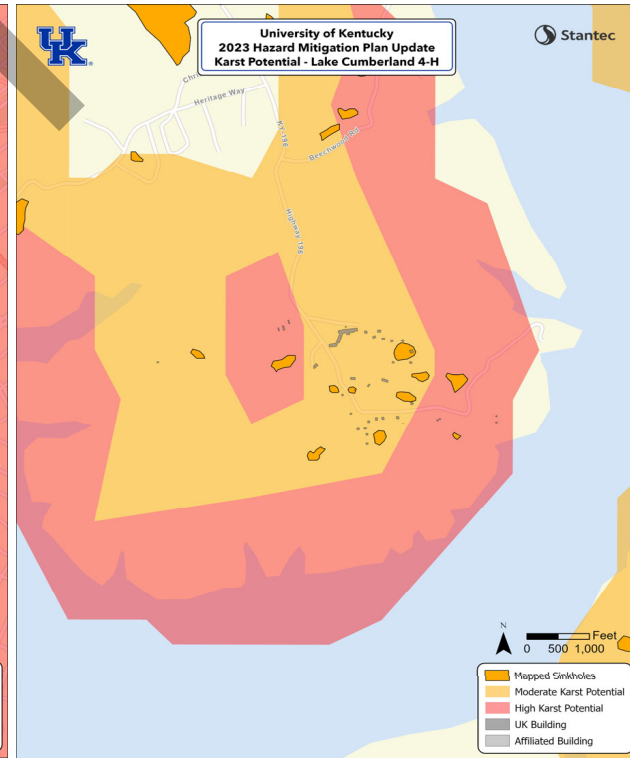
# Karst Profile



➤ Bowling Green



➤ Main Campus



➤ Lake Cumberland 4-H Camp



# Emerging Infectious Diseases



- All current and future populations on the UK campus are considered at risk to infectious illnesses
- Universities are especially vulnerable to infectious diseases due to:
  - Close living quarters and communal dining halls
  - Large number of people working in close proximity
  - Visitors from all over the world and personnel traveling all over the world
  - UK Healthcare may treat uncommon diseases
- Building / Infrastructure Risks
  - May need sterilization or decontamination
  - Use and operations of facilities may change
- Population Risks
  - Healthcare personnel face more exposure
  - Students in close living quarters face more exposure
  - Personnel traveling may be exposed to uncommon infectious diseases
- Other University Risks
  - Classes may move online
  - Operations reductions
  - The University may have to run testing facilities, quarantine facilities, and vaccine clinics.





# Survey Summary



Viewed: 858  
 Started: 220  
 Completed: 115

Students 2.82%  
 Faculty 9.60%  
 Staff 83.62%  
 Community Member 2.26%  
 Other 1.36%



\* What is your affiliation with the University?

- Student
- Faculty
- Staff
- Community Member
- Other

\* On which campus do you typically attend class, work, or attend events?

- University of Kentucky – Main Campus
- Little Research Center/Woodford Farm Campus
- North Farm Campus (includes North Farm Agricultural Center and Eastern State Hospital)
- South Farm Campus
- Robinson Forest Campus
- West Kentucky Substation (Research and Education Center at Princeton) Campus
- Paducah Campus (located on the West Kentucky Community and Technical College Campus)
- Hazard Campus
- College of Medicine at Bowling Green Campus
- College of Medicine at Northern Kentucky, Highland Heights Campus
- College of Medicine at Northern Kentucky, Edgewood Campus
- Feltner 4-H Camp (London, KY)
- Lake Cumberland 4-H Camp (Nancy, KY)
- North Central 4-H Camps (Carlisle, KY)
- West Kentucky 4-H Camp (Dawson Springs)
- Other

## Survey: Hazards that are the biggest threat



- 
- |                        |                                 |
|------------------------|---------------------------------|
| 1. Severe Winter Storm | 1. Tornado                      |
| 2. Severe Storm        | 2. Severe Storm                 |
| 3. Cyber Threats       | 3. Severe Winter Storm          |
| 4. Tornado             | 4. Cyber Threats                |
| 5. Hazardous Materials | 5. Emergent Infectious Diseases |



## Mitigation Successes – College of Agriculture and UK Health Care



- College of Agriculture
  - Western Kentucky housed 246 relief workers representing 26 organizations
  - 1,245 youth and families visited to pick-up necessities that were donated (canned food, personal hygiene items, baby formula, tools, clothes, and cleaning supplies)
  - Successfully applied for grant funding for tornado shelters.
  - Extension has emergency action plans for offices. (Action item is to streamline the process.)
  - UK Wellness Department provided mental health sessions to support staff at REC and RCARS.
- UK Health Care
  - Childcare for staff during pandemic
  - Regional vaccine distribution
  - Drive thru testing



# Offices for Institutional Diversity



- First generation and international students are vulnerable populations.
  - First generation students often do not have a road map for college
  - International students may have language barriers. Remain on campus during holidays/breaks, therefore they are on campus with essential staff
- Elderly staff members struggle with technology as a vulnerability.
- On-campus food pantry and couch-surfing
- Students and staff with disabilities struggle with mobility as a result of ongoing construction detours.
- Main campus near under resourced zip codes.
  - Bluegrass Community Foundation
  - Jewish Federation of Lexington
  - Fayette County Public Schools
- UK Healthcare
  - Health equity
  - Transform health
  - Polk-Dalton Clinic
  - Clinica Amiga

## Aligning the DEI Implementation Plan with UK's Strategic Plan



The DEI Implementation Plan initiatives aligned with the university's strategic plan.

### DEI and UK-PURPOSE

As Kentucky's flagship institution, the university plays a critical leadership role by promoting diversity, inclusion, economic development and human well-being. We have aligned the DEI Implementation Plan with the UK-PURPOSE Strategic Plan to accelerate inclusive excellence in all we do as we work to advance Kentucky.

LEARN MORE ABOUT UK'S STRATEGIC PLAN

['Behind the Blue': Katrice Albert discusses UK's DEI Implementation Plan | UKNow \(uky.edu\)](#)



## 2015 Mitigation Goals



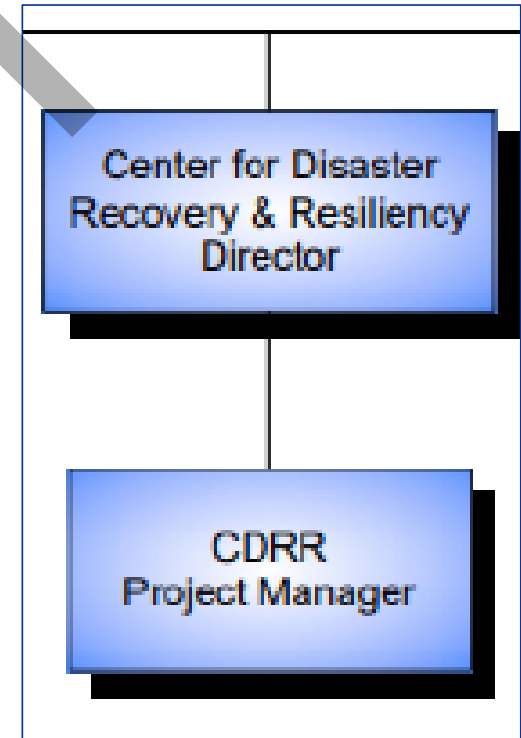
GOAL 1 Protect lives and reduce injuries from hazards and threats.

GOAL 2 Protect university property, organizational information, and research from hazards and threats.

GOAL 3 Enhance existing, or develop new University policies and practices that are designed to reduce damaging effects from hazards and threats.

GOAL 4 Build stronger partnerships between government, educational institutions, business, and the community.

GOAL 5 Build disaster preparedness and response through mitigation education and outreach.



# 2023 Mitigation Actions



Name:		Description:	Responsible Department			
Disaster Recovery Manager		Hire Disaster Recovery Manager for the Center for Disaster Recovery and Resilience	Center for Disaster Recovery and Resilience			
Prioritization Metric	Weighting Factor	Scoring Criteria	Score	Points	Notes	
1	Feasibility	20%	5 – Funding identified, easily implemented within five years 3 – Funding identified, implemented with only moderate complexity or delays 1 – Funding identified, implementation is complex and faces certain delays for implementation 0 – Not feasible, no funding identified and/or not able to be implemented	5	100	
2	Climate Resilience	20%	5 – Very High (Action provides multiple benefits for climate resilience or adaptive measures) 3 – High (Action provides at least one benefit for climate resilience) 1 – Moderate (Action provides limited benefits for climate resilience) 0 – Low (Action does not provide benefits for climate resilience)	5	100	
3	Public (Project Type)	10%	5 – Structural Projects 5 – Public Education and Awareness 3 – Natural Resources Protection 3 – Property Protection 3 – Emergency Services 1 – Prevention	5	50	
4	Public (Hazard of greatest concern)	10%	5 – Action addresses one or more hazards identified by the university community as being a high threat to the University 3 – Action addresses one or more hazards identified by the university community as being a moderate threat to the University 1 – Action addresses one or more hazards identified by the university community as being a minimal threat to the University	5	50	
5	Risk Reduction/Benefits	20%	5 – Very High (Significant losses avoided and/or significant benefits with consideration to economic, social, and environmental factors) 3 – High (Numerous losses avoided and/or numerous benefits with consideration to economic, social, and environmental factors) 1 – Moderate (Some losses avoided, some benefits with consideration to economic, social, and environmental factors) 0 – Low (No losses avoided, no public benefits with consideration to economic, social, and environmental factors)	3	60	
6	Costs	20%	5 – Project Costs are predominantly staff time 3 – Project Costs are estimated between \$0-\$100,000 1 – Project Costs are estimated between \$100,001-\$500,000 0 – Project Costs are estimated above \$500,000	5	100	
Total		100%	sum of parameter scores (max = 500)		<b>460</b>	



# 2023 Mitigation Actions

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## Prevention

- University codes and design standards
- Building codes
- Open space preservation
- Stormwater management
- Capital improvements programming
- Security measures

## Property Protection

- Acquisition
- Relocation
- Building elevation
- Critical facilities protection
- Retrofitting (e.g., windproofing, floodproofing, seismic design techniques, etc.)
- Safe rooms, shutters, shatter-resistant glass
- Insurance



# 2023 Mitigation Actions



## Natural Resource Protection

- Floodplain protection
- Watershed management
- Riparian buffers
- Habitat preservation
- Erosion and sediment control
- Wetland preservation and restoration
- Slope stabilization
- Forest and vegetation management (e.g., fire resistant landscaping, fuel breaks, etc.)

## Emergency Services

- Warning systems
- Evacuation planning and management
- Emergency response training and exercises
- Sandbagging for flood protection
- Installing temporary shutters for wind protection





# 2023 Mitigation Actions

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## Structural Projects

- Reservoirs
- Dams / levees / dikes / floodwalls
- Diversions / detention / retention
- Channel modifications
- Storm sewers

## Public Education and Awareness

- Outreach projects
- Library materials
- Student educational programs
- Hazard expositions
- Social media campaigns
- Speaker series / demonstration events
- Hazard map information
- Real estate disclosures



# Questions and Contact Information



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[laurel.wood@uky.edu](mailto:laurel.wood@uky.edu)

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**Kristen Hewes**

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**910-540-9215**



**Thank you!**



Last	First	Oranization	Department	Title	SCM1 9/27/22	SCM2 10/27/22	SCM3 3/21/23	SCM4 5/23/2023	Work Group Meeting 1 11/18/2022	Work Group Meeting 2 1/13/23	Work Group Meeting 3 3/09/23
Adkins	Todd	UK	Risk Management	Director	✓	✓			✓		
Banahan	Amanda	UK	UKPD	Marketing	✓	✓		✓			
Berry	Sharon	UK	UK Healthcare	Director	✓			✓			
Blevins	Justin	UK	Residence Life	Director	✓						
Brandewie	Tim	Fayette	Lexington Dem	EMA OPS		✓					
Broeking	Lance	UK	Transportation Services	Director	✓	✓	✓				
Brown	Nathan	UK	UKPD	Deputy Chief	✓	✓	✓		✓	✓	✓
Bryan	Josh	UK	UK Healthcare	Emergency Services	✓		✓				
Bucher	John	Stantec	Stantec	Planner			✓			✓	
Burkett	Ian	Red Cross	Red Cross	Disaster Program Manager		✓					
Burr	Stephen	Fayette	CISO - ITS	Associate							✓
Casteel	Sarah	UK	UK Healthcare	ED CMC APCM		✓					
Chambers	Orlando	UK	College of Agriculture	Associate Dean	✓						
Chaney	Ashley	UK	UK Healthcare	EM Specialist			✓	✓		✓	✓
Chris	White	UK	Residence Life	Associate	✓						
Cooper	James	Fayette	Colombia Gas of Ky				✓				
Dillon	Curtis	Fayette	Kentucky American Water		✓		✓	✓			
Ferguson	Travis	UK	College of Dentistry	Dentist		✓		✓			
Geisinger	Scott	UK	Athletics	Assistant PD	✓	✓		✓	✓		✓
Givens	Jonn	Fayette	Lextran	Director		✓		✓			
Gray	Graham	UK	Utilities	Manger	✓	✓		✓		✓	✓
Greene	Mike	Stantec	Stantec	Manager		✓	✓	✓	✓	✓	
Handshoe	Justin	Fayette	Red Cross	Disaster Program Manager			✓	✓			
Haneberg	Bill	UK	Ky Geol Survey	Director	✓	✓	✓	✓	✓	✓	✓
Harris	Tom	UK	University Relations	Vice President	✓	✓	✓				
Hewes	Kristen	Stantec	Stantec	Project Manager			✓	✓	✓	✓	
Hibbard	David	UK	Exec Din EHS	Executive Director	✓	✓		✓	✓		✓
Higdon	Andrea	UK	College of Agriculture	EnMgt Sys Director		✓	✓	✓		✓	
Idstein	Peter	UK	Earth & Environmental Science	A&S Space and Facilities Coordinantor		✓					
Ketcham	Jaxon	UK	UK Healthcare	Patient Services Coordinator	✓						
Kielland	Bob	UK	UK Environement Quality Management	Director			✓				
Kilgore	Ellen	UK	Office of Student Conduct	Student Responsibility Coordinator	✓	✓					
Larkins	Robert	Fayette	Lexington Fire Department	Planning Chief	✓	✓	✓				
Lee	Samuel	Stantec	Stantec	Senior Water Resources Engineer	✓						
Lesley	Catie	UK	Human Resources	AVP HR Operations	✓		✓	✓			
Lewis	Veronda	UK	Crisis Management and Preparedness	Compliance Officer	✓	✓	✓		✓	✓	✓
Marleha	Vince	Windstream	Kinetic	Account Director	✓						
McKinley	Ashley	UK	Auxiliary Services	Associate Durector Acting			✓				
McKure	Michael	Fayette	Colombia Gas		✓						
Merriam	Paul	UK	Facilities Planning and Management	Facilities Compliance Manager						✓	
Miller	John	UK	Risk Management	Assistant Director		✓					
Miller	Bart	UK	Risk Management	Assistant Director					✓		
Monroe	Joe	UK	UKPD	Chief	✓						
Moore	Cory	UK	UK Healthcare	Ambulptory Director	✓	✓					
Nelson	Brandy	UK	Biological Safety	Director	✓	✓		✓			
Nikirk	Sarah	UK	Auxiliary Services	Executive Director	✓		✓	✓			
Nokes	Sue	UK	Act Associate Prvost Faculty	Provost	✓						
Overmon	Jay	UK	UKPD	Emergency Management Educator	✓						
Pelarski	Cory	UK	UKPD	Captain	✓		✓				
Poore	Lee	UK	Occupational Health & Safety	Director	✓	✓					
Rohde	Steve	Lextran	Safety Training	Training Manger	✓						
Saylor	Alan	UK	UKPD	Senior Police Officer		✓					

Sheron	Michael	UK	IT Security & Policy	Director Privacy	✓	✓		✓	✓		
Smith	Andrew	UK	Auxiliary Services	Auxiliary Services	✓						
Sooth	Robert	UK	UK Healthcare	Business Continuity	✓						
Stamper	Shannan	UK	Office of Legal Counsel	Deputy General Council	✓	✓		✓			
Stauffer	Steve	UK	UK Student Services	Director	✓	✓		✓		✓	
Swanson	Barry	UK	UK Healthcare	Chief	✓	✓	✓	✓			
Swartz	Tammy	UK	UK Healthcare	Executive Director	✓						
Taylor	Nathan	UK	UKPD	Event Management Lieutenant		✓					
Thomas	Wayne	UK	UKCMD	Director Capital Constructiom		✓					
Thuringer	Chris	UK	IT Security & Policy	Director Of Institutional Research		✓	✓				
Tucker	Gretchen	UK	Facilities Information Services	Adminstrator Senio and Team Lead	✓	✓		✓		✓	✓
Turner	Rob	UK	UKPD	Major	✓			✓		✓	✓
Vanderpool	Ryan	Fayette	Colombia Gas of Ky				✓				
Vosevich	Mary	UK	UK Facilities Management	Vice President	✓	✓			✓	✓	
Williamson	Greg	UK	UKFD	Fire Marshall	✓	✓		✓			
Wolf	Baron	UK	UK OVPR	Associate Vice President			✓	✓			
Wood	Laurel	UK	UK Healthcare	Director Business Continuity		✓	✓	✓	✓	✓	✓
Woodson	Sally	UK	Public Relations	Executive Communication Specialist	✓	✓					
Yearly	Cecelia	UK	UK Healthcare	Vice President	✓						
Young	Jay	UK	Facilities Planning and Management	Assitant Dean Facilities	✓	✓					
Sutherland	Kristen	UK	UKPD	CDRR PM				✓			
Adams	Chuck	UK						✓			
Buford	Christopher	UK						✓			
Emmerson	Ann	UK	College of Medicine	Planning Operations Director/COM				✓			
Howard	Patricia	UK	UK Hospital	Adjunct Assistant Professor				✓			
Hughes	Mark	UK	Information Technology Services	Manager				✓			
Hurley	Christina	UK						✓			
McKinley	Kathy	UK	Campus Housing	Acting House				✓			
Tedder	Shane	UK	UK	Sustainabilty Officer				✓			

DRAFT

Instructors/Facilitators MUST sign each page of the Event Roster

Kentucky Division of Emergency Management  
Event Roster

Name of Event: University of Kentucky Hazard Mitigation Plan Update  
 Location: The 90, Suite 228, EOC, University of Kentucky  
 Address: The 90, Suite 228  
 City/Community: Lexington KY  
 EDBS#/NEXS#: \_\_\_\_\_

Is This An Exercise?  Yes  No  
 If so, what type:  
 Seminar  Workshop  TTX  Game  
 Drill  Functional  Full-Scale

Event Start Date: 29-Sep-22 10:00-11:30  
 Event End Date: 29-Sep-22  
 Instructor/Facilitator (1): Stantec/UK Planning Team  
 Instructor/Facilitator (2): \_\_\_\_\_  
 Total Event Hours: \_\_\_\_\_

Event Hours: Day 1: \_\_\_\_\_ Day 2: \_\_\_\_\_ Day 3: \_\_\_\_\_ Day 4: \_\_\_\_\_ Day 5: \_\_\_\_\_

If registering day-of, please print your name and email address legibly. The name on your certificate will appear as written.

Initials Only, Each Day

0	FirstName	MI	Last Name	Title	Agency	Are you being Paid to attend?		Email	Job Category	Day					Total Hrs.
						If Yes, By Whom?				1	2	3	4	5	
0	John	Q	Doe	SAR Coordinator	XYZ County	Yes	Local	JQD@xyzcorporation.bus	SAR Supervisor						0
1	Justin	A	Blewins	Director ResLife	UK	✓	UK	stn@uky.edu							
2	Sarah	F	NiKirk	Auxiliary Services	UK	✓	UK	S.niKirk@uky.edu							
3	Michael	K	McKune	Columbia GAT	Fayette										
4	Sharon	K	Berry	UK HealthCare Safety	Fayette UK	✓	UKHC	seberry@uky.edu							
5	Jaxon	D	Ketchum		Fayette UK	✓	UKHC	jk241@uky.edu							
6	Gretchen		Tucker	Facilities Information Services		✓	UK	g.tucker@uky.edu							
7	Bill		Heneberg		KY Geol Survey /UK	✓	UK	bill.heneberg@uky.edu	hrd						
8	DAVID	W	HIBBARD	EXEC DIR EHS	UK	✓	UK	dahibb@uky.edu							
9	Lee	U	Poore	Dir. OHS	UK	✓	UK	Lee.Poore@uky.edu							
10	Barry	K	Swanson	Chief Procurement Officer	UK	✓	UK	barry.swanson@uky.edu							
11	Chris	J	White	Associate Director ResLife	UK	✓	UK	Chris.White@uky.edu							
12	SCOTT	K	GRISINGER	ASSISTANT AD (Athletics)	UK	✓	UK	sgrisinger@uky.edu							
13	Tom	W	HARRIS	VP UNIVERSITY RELATIONS	UK	✓	UK	tom.harris@uky.edu							
14	Curtis	L	Dillon	KY American Water	Fayette	✓	KAW	Curtis.Dillon@amwater.com							
15	Laurel	C	Wood	UK Police - Business Continuity	UK	✓	UK	laurel.wood@uky.edu							
16	Cecelia	B	Yeany	UK HealthCare	UK	✓	UKHC	cecilia.yeany@uky.edu							
17	Jay	K	Overman	EM Educator	UK	✓	UK	jay.overman@uky.edu							
18	Nathan		Brown	Deputy Chief	UK	✓	UK	nathan.brown@uky.edu							
19	Veronda		Lewis	Clery Comp. Coord.	UK	✓	UK	veronda.lewis@uky.edu							
20	Amanda		Banahan	UKPD Marketing	UK	✓	UK	mandi.banahan@uky.edu							
21	Bob	K	Tumer	UKPD Major	UK	✓	UK	rob.tumer@uky.edu							
22	Cory		Pelarski	UKPD Captain	UK	✓	UK	cory.pelarski@uky.edu							
23	Shannon		Stampfer	Dep. Gen. Counsel	UK	✓	UK	Shannon.Stampfer@uky.edu							
24															
25															

Instructors/Facilitators MUST sign each page of the Event Roster

Kentucky Division of Emergency Management  
Event Roster

Name of Event: University of Kentucky Hazard Mitigation Plan Update  
 Location: The 90, Suite 228, EOC, University of Kentucky  
 Address: The 90, Suite 228  
 City/Community: Lexington KY  
 EDBS#/NEXS#:

Is This An Exercise?  Yes  No  
 If so, what type:  
 Seminar  Workshop  TTX  Game  
 Drill  Functional  Full-Scale

Event Start Date: 29-Sep-22  
 Event End Date: 29-Sep-22  
 Instructor/Facilitator (1): Stantec/UK Planning Team  
 Instructor/Facilitator (2):  
 Total Event Hours:  
 Event Hours: Day 1: Day 2: Day 3: Day 4: Day 5:

10:00-11:30

If registering day-of, please print your name and email address legibly. The name on your certificate will appear as written.

Initials Only, Each Day

0	FirstName	MI	Last Name	Title	Agency	Are you being Paid to attend?		Email	Job Category	Day					Total Hrs.
						If Yes, By Whom?	Local			1	2	3	4	5	
	John	Q	Doe	SAR Coordinator	XYZ County	Yes	Local	JQD@xyzcorporation.bus	SAR Supervisor						0
1	Steve		Rohde	Safety <del>Training</del>	Lextran	✓		Srohde@lextran.com	Manage						
2	MARCEL	P	Stewart	DIRECTOR PRIVACY	UK	✓	UK	marcel.stewart@uky.edu	SAR Supervisor						
3	Tammy	R	Swartz	EM Director	UKHC	✓	UK	tammy.swartz@uky.edu							
4	Ellen	C	Kilgore	Student Responsibility Coord	OSC-UK	✓	UK	ellen.kilgore@uky.edu							
5	Brandy	J	Nelson	BS/RS Director	UK	✓	UK	bnels3@uky.edu							
6	Robert	J	Larkin	Planning Chief	Lexington Fire Dept	✓	Lex Fire	rlarkin@lexingtonky.gov							
7	Sally		Woodson	Public relations	UK	✓	UK	sally@uky.edu							
8	Jay		Young	Asst. Dean Facilities	UK: A&S	✓	UK	jay.young@uky.edu							
9	Catie	H	Wolby	AVP HR Operations	UK- HR	✓	UK	catie.wolby@uky.edu							
10	MARY		VOSEVICH	Facilities	UK Facilities Mgmt	✓	UK	mary.vosevich@uky.edu	Eric Monday						
11	Con	T	Moore	Ambulance Director	UKHC	✓	UK	con.moore@uky.edu							
12	Graham	M	Gray	WEM Mgr	Utilities	✓	UK	ggray2@uky.edu	Vosevich						
13	Lance	E	Broeking	Director Temp. Serv	UK Temp. Services	✓	UK	lance@uky.edu							
14	Orlando	D	Chamber	CAFE	UK	✓	UK	o.chamber@uky.edu	N. Cox						
15	Vince		Marletta		Kinetic by Windstream	✓	Windstream	vince.marletta@windstream.com							
16	STEVE		STAUFFER	DIRECTOR FACILITIES	UK STUDENT SERVICES	✓	UK	s.stauffer@uky.edu							
17	GREG		Williams	FIRE MARSHAL	UK	✓	UK	ggregwill2@uky.edu							
18	SAM		LEE	CIVIL ENGINEER	STANTEC	✓		Samuel.Lee2@stantec.com							
19	Josh		Bryan	Emergency Services UK	UKHC	✓	UK	ja.bryan@uky.edu							
20	Rob		Turner	<del>UK POLICE</del>	UK POLICE	✓	UK	rob.turner@uky.edu	duplicate						
21	Todd		Adkins	Dir. Risk Mgt	Risk Mgt	✓	UK	todd.adkins@uky.edu							
22	Joe		Monroe	Chief of Police	UKPD	✓	UK	joe.monroe@uky.edu							
23	Sue		Nokes	Ad Assoc. Prov Faculty	Provost	✓	UK	snokes@uky.edu							
24	Andrew	M	Smith	AVP Aux Service	Aux Serv.	✓	UK	andrew.drew.smith@uky.edu	Fraser						
25	Robert	M	Booth	UKHC Business Continuity	UKHC	✓	UK	mikebooth@uky.edu							

Instructors/Facilitators MUST sign each page of the Event Roster

Kentucky Division of Emergency Management  
Event Roster

Name of Event: UK Hazard Mitigation Plan Update  
 Location: UK Gatton Student Center, Worshema Cinema  
 Address: 160 Avenue of Champions  
 City/Community: Lexington, Kentucky  
 EDBS#/NEXS#:

Is This An Exercise?  Yes  No  
 If so, what type:  
 Seminar  Workshop  TTX  Game  
 Drill  Functional  Full-Scale

Event Start Date: October 27, 2022  
 Event End Date: October 27, 2022  
 Instructor/Facilitator (1): 9:30-10:30  
 Instructor/Facilitator (2):  
 Total Event Hours: Day 1: \_\_\_ Day 2: \_\_\_ Day 3: \_\_\_ Day 4: \_\_\_ Day 5: \_\_\_

If registering day-of, please print your name and email address legibly. The name on your certificate will appear as written.

Initials Only, Each Day

0	FirstName	MI	Last Name	Title	Agency	Are you being Paid to attend?		Email	Job Category	Day					Total Hrs.
						If Yes, By Whom?	Local			1	2	3	4	5	
0	John	Q	Doe	SAR Coordinator	XYZ County	Yes	Local	JQD@xyzcorporation.bus	SAR Supervisor						0
1	Laurel		Wood	Director, Business Continuity	UK	Yes	UK	laurel.wood@uky.edu							
2	Sally		WOODSON	SPECIALIST, PR	UK		UK	sally@uky.edu							
3	MIKE		GREENE	MANAGER	STANTEC	YES		MIKE.L.PGREENE@STANTEC.COM							
4	Veronda		LEWIS	Clery Coord	UK	YES	UK	Veronda.lewis@uky.edu							
5	Scott		Geisinger	Assistant AD	UK	YES	UK	sgeisinger@uky.edu							
6	CHRIS		BUFOX	FMHC MGR	FMHC	YES	UK	chris.bofox@uky.edu							
7	Nathan		BEAN	UK Dist. Chf	UK PD	YES	UK	nathan.bean@uky.edu							
8	Tom		HARRIS	VP Univer. Relations	UK	YES	UK	Tom.harris@uky.edu							
9	Ian		Burkett	Disaster Program Mgr	Red Cross	Yes	Red Cross	ian.burkett@redcross.org							
10	Jay		Young	UK A&S Asst Dean	UK A&S	Yes	Yes	jay.young@uky.edu							
11	Gutcheon		Tucker			Yes	UK	g.tucker@uky.edu							
12	Cory		MOORE	UK Health Care	///	Yes	UK	Cory.Moore@uky.edu							
13	Andrea		HIGDON	EnMgmt Sys Dir	UK CAFE	YES	UK	andrea.higdon@uky.edu							
14	WAYNE		THOMAS	DIRECTOR CAPITAL CONSTRUCTION	UK CPMD	Yes	UK	wayne.thomas@uky.edu							
15	MARV		ROSEVILL	VP FM	UK	Yes	UK								
16	TRAVIS	A	Ferguson	Deputy Dir	UK	Yes	UK	tferg@uky.edu							
17	Greg		Williamson	UK FM	UK	Yes	UK	gawill2@uky.edu							
18	DAVID	W	HIBBARD	EXEC DIR E&S	UK	YES	UK	dwhibb@uky.edu							
19	Lee		POORE	Dir. of OHS	UK	Yes	UK	Lee.Poore@uky.edu							
20	Bill		Honeberg	K&S Director	UK/K&S	yes	UK	bill.honeberg@uky.edu							
21	SARAH		CASTLE	EO OMC K&S	UK HEALTHCARE	Yes	UK	sarah.castle@uky.edu							
22	Shannon		Stanger	Deputy General Counsel	UK Legal	Yes	UK	shannon.stanger@uky.edu							
23	Peter		Idstein	AS Special Facilities	UK	Yes	UK	peter.idstein@uky.edu							
24															
25															

Instructor/Facilitator Signature: \_\_\_\_\_

Co-Instructor/Facilitator Signature: \_\_\_\_\_

Instructors/Facilitators MUST sign each page of the Event Roster

Kentucky Division of Emergency Management  
Event Roster

Name of Event: UK Hazard Mitigation Plan Update  
 Location: UK Gatton Student Center, Worshema Cinema  
 Address: 160 Avenue of Champions  
 City/Community: Lexington, Kentucky  
 EDBS#/NEXS#: \_\_\_\_\_

Is This An Exercise?  Yes  No  
 If so, what type:  
 Seminar  Workshop  TTX  Game  
 Drill  Functional  Full-Scale

Event Start Date: October 27, 2022  
 Event End Date: October 27, 2022  
 Instructor/Facilitator (1): 9:30-10:30  
 Instructor/Facilitator (2): \_\_\_\_\_  
 Total Event Hours: \_\_\_\_\_  
 Event Hours: Day 1: \_\_\_\_\_ Day 2: \_\_\_\_\_ Day 3: \_\_\_\_\_ Day 4: \_\_\_\_\_ Day 5: \_\_\_\_\_

If registering day-of, please print your name and email address legibly. The name on your certificate will appear as written.

**Initials Only, Each Day**

Are you being Paid to attend?  
If Yes, By Whom?

	FirstName	MI	Last Name	Title	Agency	Are you being Paid to attend? If Yes, By Whom?	Email	Job Category	Day	Day	Day	Day	Day	Total Hrs.
									1	2	3	4	5	
26	MICHAEL	P	SHEROU	DIRECTOR OF PRIVACY	UK-ITS		MICHAEL.SHEROU@UKY.EDU							
27	ELLEN		KILGOM	SEC	UK-DCS Student Center		ellen.kilgom@uky.edu							
28														
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Instructor/Facilitator Signature: \_\_\_\_\_

Page: \_\_\_\_\_ of \_\_\_\_\_

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Co-Instructor/Facilitator Signature: \_\_\_\_\_



Instructors/Facilitators MUST sign each page of the Event Roster

Kentucky Division of Emergency Management  
Event Roster

Name of Event: UK Hazard Mitigation Plan Update  
 Location: UK Gatton Student Center, Worshema Cinema  
 Address: 160 Avenue of Champions  
 City/Community: Lexington, Kentucky  
 EDBS#/NEXS#: \_\_\_\_\_

Is This An Exercise?  Yes  No  
 If so, what type:  
 Seminar  Workshop  TTX  Game  
 Drill  Functional  Full-Scale

Event Start Date: October 27, 2022  
 Event End Date: October 27, 2022  
 Instructor/Facilitator (1): 9:30-10:30  
 Instructor/Facilitator (2): \_\_\_\_\_  
 Total Event Hours: \_\_\_\_\_  
 Event Hours: Day 1: \_\_\_\_\_ Day 2: \_\_\_\_\_ Day 3: \_\_\_\_\_ Day 4: \_\_\_\_\_ Day 5: \_\_\_\_\_

If registering day-of, please print your name and email address legibly. The name on your certificate will appear as written.

Initials Only, Each Day

	FirstName	MI	Last Name	Title	Agency	Are you being Paid to attend?		Email	Job Category	Day					Total Hrs.
						Yes	Local			1	2	3	4	5	
0	John	Q	Doe	SAR Coordinator	XYZ County	Yes	Local	JQD@xyzcorporation.bus	SAR Supervisor						0
1	Graham	M	Gray	Utilities	UK	N		gmgray2@uky.edu							
2	Brandy	J	Nelson	EHS	UK	N		brandy.j.nelson@uky.edu	Safety						
3	Todd	W	Adkins	Risk Mgt.	UK	N		Todd.Adkins@uky.edu							
4	Barb	B	Miller	Risk Mgt	UK	N		Barb.Miller@uky.edu							
5	Mandi	L	Baranuk	UKPD	UK	N		Mandi.baranuk@uky.edu							
6	Nathan	S	Taylor	UKPD	UK	N		Nathan.Taylor@uky.edu							
7	Alan	L	Saylor	UKPD	UK	N		alan.saylor@uky.edu							
8															
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25															

Instructor/Facilitator Signature: \_\_\_\_\_

Co-Instructor/Facilitator Signature: \_\_\_\_\_

Kentucky Division of Emergency Management  
Event Roster

Name of Event: University of Kentucky Hazard Mitigation Plan Workgroup  
 Location: The 90, Suite 228, EOC, University of Kentucky  
 Address: The 90, Suite 228  
 City/Community: Lexington KY  
 EDBS#/NEXS#:

Is This An Exercise?  Yes  No  
 If so, what type:  
 Seminar  Workshop  TTX  Game  
 Drill  Functional  Full-Scale

Event Start Date: 13-Jan-23  
 Event End Date: 13-Jan-23  
 Instructor/Facilitator (1): Stantec/UK Team  
 Instructor/Facilitator (2):  
 Total Event Hours:

Event Hours: Day 1: \_\_\_ Day 2: \_\_\_ Day 3: \_\_\_ Day 4: \_\_\_ Day 5: \_\_\_

If registering day-of, please print your name and email address legibly. The name on your certificate will appear as written.

Initials Only, Each Day

Are you being Paid to attend?

Day Day Day Day Day Total

First Name	MI	Last Name	Title	Agency	If Yes, By Whom?	Email	Job Category	1	2	3	4	5	Hrs.
26		Andrea Higdon	Em Mgmt Syst Dir	UK CAFE	UK	andrea.higdon@uky.edu							
27		Paul Merriam	Facilities Mgr	UK CPD	UK	PAUL.MERRIAM@UKY.EDU							
28		Nathan Brown	Deputy Chief	UKPD	UK	NATHAN.BROWN@UKY.EDU							
29		G. Tuck	ITS Geogant	ITS Geogant	UK	g.tuck@uky.edu							
30		MARY VOSEVICH	VP FM	Facilities Mgmt	UK								
31		STEVE STAUFFER	DIRECTOR FAC PL	STUDENT SUCCESS	UK	S.STAUFFER@UKY.EDU							
32		Laurel Wood	Director Business Continuity	UKPD	UK	laurel.wood@uky.edu							
33		Graham Gray	Utilities Mgr	UK Utilities	UK	gmgray2@uky.edu							
34		Rob Turner	UKPD MAT.	UKPD	UK	rob.turner@uky.edu							
35		WILLIAM C HONERBERG	KGS DIRECTOR	KGS	YES UK	BILL.HONERBERG@UKY.EDU							
36		VERONDA LEWIS	CLERY COMP COORD	UK CMP	YES UK	VERONDA.LEWIS@UKY.EDU							
37		ASITLEY CHANEY	EMERGENCY MANAGEMENT	UK CMP	YES UK	CHANEY.ASITLEY@UKY.EDU							
38		KRISTEN HEWES	PROJECT MANAGER	STANTEC	YES STANTEC	KRISTEN.HEWES@STANTEC.COM							
39		JOHN BUCHER	ASST PROJECT MGR	STANTEC	YES STANTEC	JOHN.BUCHER@STANTEC.COM							
40		MIKE GREENE	PROGRAM MGR	STANTEC	YES STANTEC	MIKE.GREENE@STANTEC.COM							
41		CHRISTOPHER BUFORD											
42		STEPHEN BURR											
43		ANN EMERSON											
44		DAVID HIBBARD											
45		MATTHEW MOY											
46		JAY OBERMAN											
47		MICHAEL SHERON											
48													
49													
50													
51													

Instructor/Facilitator Signature: \_\_\_\_\_

Co-Instructor/Facilitator Signature: \_\_\_\_\_

Kentucky Division of Emergency Management  
Event Roster

Name of Event: University of Kentucky Hazard Mitigation Plan Workgroup  
 Location: The 90, Suite 228, EOC, University of Kentucky  
 Address: The 90, Suite 228  
 City/Community: Lexington KY  
 EDBS#/NEXS#:

Is This An Exercise?  Yes  No  
 If so, what type:  
 Seminar  Workshop  TTX  Game  
 Drill  Functional  Full-Scale

Event Start Date: 13-Jan-23  
 Event End Date: 13-Jan-23  
 Instructor/Facilitator (1): Stantec/UK Team  
 Instructor/Facilitator (2):  
 Total Event Hours:

Event Hours: Day 1: \_\_\_ Day 2: \_\_\_ Day 3: \_\_\_ Day 4: \_\_\_ Day 5: \_\_\_

If registering day-of, please print your name and email address legibly. The name on your certificate will appear as written.

**Initials Only, Each Day**

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Are you being Paid to attend?  
If Yes, By Whom?

First Name	MI	Last Name	Title	Agency	If Yes, By Whom?	Email	Job Category	Day					Total Hrs.	
								1	2	3	4	5		
26	William	C	Honeberg	KGS Director	yes UK	bill.honeberg@uky.edu								
27	Veronda		Lewis	Clery Comp. Coord.	yes UK	Veronda.lewis@uky.edu								
28	Ashley		Chaney	Emergency Management	yes UK	Chaney.Ashley@uky.edu								
29														
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Instructor/Facilitator Signature: \_\_\_\_\_

Co-Instructor/Facilitator Signature: \_\_\_\_\_

Kentucky Division of Emergency Management  
Event Roster

Name of Event: University of Kentucky Hazard Mitigation Plan Workgroup  
 Location: The 90 - Suite 228 - Emergency Operations Center  
 Address: University of Kentucky  
 City/Community: Lexington KY  
 EDBS#/NEXS#:

Is This An Exercise?  Yes  No  
 If so, what type:  
 Seminar  Workshop  TTX  Game  
 Drill  Functional  Full-Scale

Event Start Date: 3/21/2023 1.30 pm  
 Event End Date: 3/21/2023 3.00 pm  
 Instructor/Facilitator (1): Stantec/UK Team  
 Instructor/Facilitator (2):  
 Total Event Hours:

Event Hours: Day 1: \_\_\_ Day 2: \_\_\_ Day 3: \_\_\_ Day 4: \_\_\_ Day 5: \_\_\_

If registering day-of, please print your name and email address legibly. The name on your certificate will appear as written.

Initials Only, Each Day

Are you being Paid to attend?

0	FirstName	MI	Last Name	Title	Agency	Are you being Paid to attend?		Email	Job Category	Day					Total Hrs.
						If Yes, By Whom?	Local			1	2	3	4	5	
0	John	Q	Doe	SAR Coordinator	XYZ County	Yes	Local	JQD@xyzcorporation.bus	SAR Supervisor						0
1	Cecile	H	Ludley	AVP HR Ops.	UK	✓	UK	Cecile.Ludley@uky.edu							
2	Bob	D	Kjelland	Director	UK Env. Quality Mgt.	✓		robert.kjelland@uky.edu							
3	Lance	B	Broeking	Director	UK Transp. Svcs.	✓		lance@uky.edu							
4	Justin	L	Handshoe	Disaster Program Manager	Bluegrass Chapter - American Red Cross	✓		justin.handshoe@redcross.org							
5	Barry	K	Swanson	CPB Purchasing		UK		barry.swanson@uky.edu							
6															
7															
8															
9															
10															
11															
12															
13															
14															
15	Nathan		Brown	Deputy Chief	UK Police	✓		nathan.brown@uky.edu							
16	Corey		Pelarski	Captain	UK Police	✓		corey.pelarski@uky.edu							
17															
18															
19	Kristen		Hewes	Project Manager	Stantec	UK		kristen.hewes@stantec.com							
20	John		Bucher	Planner	Stantec	UK		john.bucher@stantec.com							
21	Mike		Green	Principal	Stantec	UK		mike.green@stantec.com							
22															
23															
24															
25															

Instructor/Facilitator Signature: \_\_\_\_\_

Co-Instructor/Facilitator Signature: \_\_\_\_\_

Kentucky Division of Emergency Management  
Event Roster

Name of Event: University of Kentucky Hazard Mitigation Plan Workgro  
 Location: The 90 - Suite 228 - Emergency Operations Cente  
 Address: University of Kentucky  
 City/Community: Lexington KY  
 EDBS#/NEXS#:

Is This An Exercise?  Yes  No  
 If so, what type:  
 Seminar  Workshop  TTX  Game  
 Drill  Functional  Full-Scale

Event Start Date: 3/21/2023 1.30 pm  
 Event End Date: 3/21/2023 3.00 pm  
 Instructor/Facilitator (1) Stantec/UK Team  
 Instructor/Facilitator (2)  
 Total Event Hours:  
 Event Hours: Day 1: Day 2: Day 3: Day 4: Day 5:

If registering day-of, please print your name and email address legibly. The name on your certificate will appear as written.

Initials Only, Each Day

Are you being Paid to attend?

0	FirstName	MI	Last Name	Title	Agency	If Yes, By Whom?	Email	Job Category	Day					Total Hrs.	
									1	2	3	4	5		
0	John	Q	Doe	SAR Coordinator	XYZ County	Yes	JQD@xyzcorporation.bus	SAR Supervisor							0
1	Andrea		Higdon	Emergency Mgmt System Dir	College of Ag UK	yes	andrea.higdon@uky.edu								
2	Tom		HARRIS	Univ. REP.	UK	✓									
3	Veronda		Lewis	Clery Comp. Coord	UK	✓	Veronda.lewis@uky.edu								
4	Gretchen		TORR	Geo Spatial	UK	✓									
5	Robert		Larkin	Planning Chief	Lex Fire	✓	larkinr@lexingtonky.gov								
6	Bill		Haneberg	KGS Director	KGS/UK	UK	bill.haneberg@uky.edu								
7	Laurel		Wood	Director, Disaster Recovery	UK	UK	laurel.wood@uky.edu								
8	Ashley		Cheney	EM Specialist	UK	UK	cheney.ashley@uky.edu								
9	JAMES	D	COOPER		COLUMBIA COLLEGE OF KY	CKY	JCOOPER@NLSOURCE.COM								
10	Ryan		Vanderpool	<del>Emergency Mgmt System Dir</del>	Columbia Gas of KY	CKY	rvanderpool@nisswa.com								
11	Spahn	F	Nikirk	Aux Services Director	Auxiliary Services	yes	Sfix@uky.edu								
12	Kathy		McKinley	Aux Serv Assn Dir Adm	UK - Aux Serv	yes	kmckin2@uky.edu								
13	Baron	G	WOLF	Asst. Vice Pres - Resur	UK OVR	yes	Baron.Wolf@uky.edu								
14	Chris		THURINGER	DIR. OF INSTITUTIONAL RESEARCH	IRADS	yes	chris.thuringer@uky.edu								
15	Joshua	A	Bryan	Emergency Resp Mgr	UK	yes	ja.bryan@uky.edu								
16	Curtis	L.	Dillon	Kentucky American	KY	yes	curtis.dillon@amwater.com								
17															
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25															

Instructor/Facilitator Signature: \_\_\_\_\_

Co-Instructor/Facilitator Signature: \_\_\_\_\_

Kentucky Division of Emergency Management  
Event Roster

Name of Event: University of Kentucky Hazard Mitigation Plan Workgro  
 Location: The 90 - Suite 228 - Emergency Operations Cente  
 Address: University of Kentucky  
 City/Community: Lexington KY  
 EDBS#/NEXS#: \_\_\_\_\_

Is This An Exercise?  Yes  No  
 If so, what type:  
 Seminar  Workshop  TTX  Game  
 Drill  Functional  Full-Scale

Event Start Date: 5/23/2023 10.00 am  
 Event End Date: 5/23/2023 11.30 am  
 Instructor/Facilitator (1): Stantec/UK Team  
 Instructor/Facilitator (2): \_\_\_\_\_  
 Total Event Hours: \_\_\_\_\_  
 Event Hours: Day 1: \_\_\_\_\_ Day 2: \_\_\_\_\_ Day 3: \_\_\_\_\_ Day 4: \_\_\_\_\_ Day 5: \_\_\_\_\_

If registering day-of, please print your name and email address legibly. The name on your certificate will appear as written.

Are you being Paid to attend?  
If Yes, By Whom?

	FirstName	MI	Last Name	Title	Agency	If Yes, By Whom?	Email	Job Category	Day	Day	Day	Day	Day	Total Hrs.	
									1	2	3	4	5		
0	John	Q	Doe	SAR Coordinator	XYZ County	Yes	Local	JQD@xyzcorporation.bus	SAR Supervisor						0
1	Rob		Turner	MATOR	UKPD			rob.turner@uky.edu							
2	Ashley		Chaney	Em Specialist	UK/DD			chaney.ashley@uky.edu							
3	Kristen		Sutherland	CDR PM	UKPD			ktsu222@uky.edu							
4	Justin	L	Handshoe	Disaster Program Manager	American Red Cross - Bluegrass Chapter	✓	Red Cross	justin.handshoe@redcross.org							
5	STEVE		STAUFFER	FACILITIES PLANNING	STUDENT SUCCESS			S.STAUFFER@UKY.EDU							
6	Bill		Haneberg	KAS Director	KY Geol Survey	UK/KAS		bill.haneberg@uky.edu							
7	Laurel		Wood	Disaster Kermery UK	UKPD	✓		laurel.wood@uky.edu							
8	Scott		Geisinger	Athletic Director Assoc	UK Athletics	✓		sgeisinger@uky.edu							
9	Kristen		Heuer	Stantec PM	Stantec	✓		kristen.heuer@stantec.com							
10	MIKE		GREYNE	Stantec PIC	Stantec			mike.greyn@stantec.com							
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Kentucky Division of Emergency Management  
Event Roster

Name of Event: University of Kentucky Hazard Mitigation Plan Workgro  
 Location: The 90 - Suite 228 - Emergency Operations Cente  
 Address: University of Kentucky  
 City/Community: Lexington KY  
 EDBS#/NEXS#:

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 If so, what type:  
 Seminar  Workshop  TTX  Game  
 Drill  Functional  Full-Scale

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 Event End Date: 5/23/2023 11.30 am  
 Instructor/Facilitator (1) Stantec/UK Team  
 Instructor/Facilitator (2) \_\_\_\_\_  
 Total Event Hours: \_\_\_\_\_  
 Event Hours: Day 1: \_\_\_ Day 2: \_\_\_ Day 3: \_\_\_ Day 4: \_\_\_ Day 5: \_\_\_

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Are you being Paid to attend?

0	FirstName	MI	Last Name	Title	Agency	Are you being Paid to attend?		Email	Job Category	Day					Total Hrs.
						If Yes, By Whom?	Local			1	2	3	4	5	
0	John	Q	Doe	SAR Coordinator	XYZ County	Yes	Local	JQD@xyzcorporation.bus	SAR Supervisor						0
1	Andrea		Higdon	Em Mgmt Sys Dir	UK CAFE	✓		andrea.higdon@uky.edu							
2	Gretchen		Tucker	UK Geospatial		✓		g.tucker@uky.edu							
3	Amanda		Banahan	UK police		✓		mandi.banahan@uky.edu							
4	Barry		Swanson	CPO	Purchasing - UK			barry.swanson@uky.edu							
5	Graham		Gray	UEM	Utilities			ggray2@uky.edu							
6	Cate		Ladley	AVP HR Operations	UK Human Resources	✓		cate.ladley@uky.edu							
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Instructor/Facilitator Signature: \_\_\_\_\_

Co-Instructor/Facilitator Signature: \_\_\_\_\_

Campus News (/campus-news)

## Provide input on natural hazards that affect UK community

By Sally Woodson (/authors/sally-woodson) Jan. 19, 2023



Entrance of the Robinson Center for Appalachian Resource Sustainability (RCARS). Photo by Daniel Wilson.

**LEXINGTON, Ky. (Jan. 19, 2023)** — The University of Kentucky is updating its Hazard Mitigation Plan, which will identify and mitigate the risks of natural and human-caused hazards that may impact people, buildings, infrastructure and research at the university. Input from students, faculty and staff is important for plan development. There are two ways to participate and provide information:



- Complete the survey (<https://questionpro.com/t/AJ8IIZuWeK>). The university developed a survey for input from the community and the results will be included in the plan. The deadline to complete the survey is Feb. 8, 2023.
- Visit the website (<https://police.uky.edu/hazard-mitigation-plan>) to learn about upcoming meeting dates and the project.

UK's Hazard Mitigation Plan is a collaborative effort on the part of UK Police Division of Crisis Management and Preparedness (<http://www.uky.edu/EM/index.html>), the UK Hazard Mitigation Steering Committee, state and local agencies, the UK community and UK stakeholders.

The Hazard Mitigation Plan will be developed through the completion of four planning phases:

- planning process;
- risk assessment;
- mitigation strategy; and
- plan maintenance.

UK's Hazard Mitigation Plan has kept the university in compliance with federal hazard mitigation planning standards resulting from the Regulations and Guidance | FEMA.gov (<https://www.fema.gov/emergency-managers/risk-management/hazard-mitigation-planning/regulations-guidance#:~:text=The%20Disaster%20Mitigation%20Act%20of%202000%20amended%20the,to%20emergency%20disaster%20assistance.>) as contained in 44 CFR 201.6.

As a result, the university is an eligible applicant for state and federal funds for mitigation and disaster assistance grant programs administered by the Federal Emergency Management Agency (FEMA). These grants support the university in implementing projects that reduce risks, such as structural projects like the stormwater project on Alumni Drive and nonstructural projects, like university policies that protect lives and property.

*As the state's flagship, land-grant institution, the University of Kentucky exists to advance the Commonwealth. We do that by preparing the next generation of leaders — placing students at the heart of everything we do — and transforming the lives of Kentuckians through education, research and creative work, service and health care. We pride ourselves on being a catalyst for breakthroughs and a force for healing, a place where ingenuity unfolds. It's all made possible by our people — visionaries, disruptors and pioneers — who make up 200 academic programs, a \$501 million research and development enterprise and a world-class medical center, all on one campus.*

*In 2022, UK was ranked by Forbes as one of the “Best Employers for New Grads” and named a “Diversity Champion” by INSIGHT into Diversity, a testament to our commitment to advance Kentucky and create a community of belonging for everyone. While our mission looks different in many ways than it did in 1865, the vision of service to our Commonwealth and the world remains the same. We are the University **for** Kentucky.*

DRAFT

Campus News (/campus-news)

# University community invited to help update UK Hazard Mitigation Plan

By Sally Woodson (/authors/sally-woodson) Oct. 20, 2022



Entrance of the Robinson Center for Appalachian Resource Sustainability (RCARS). Photo by Daniel Wilson.

**LEXINGTON, Ky. (Oct. 20, 2022)** — Following two separate natural hazard events, including the flooding in Eastern Kentucky and tornadoes in Western Kentucky, the University of Kentucky is working to reduce the risk to human life and property from natural hazards through its updated FEMA-approved Hazard Mitigation Plan.

This year, the university is updating this plan and is looking for input from the university community.

UK students, faculty and staff are invited to join UK Police and its Division of Crisis Management and Preparedness from 9:30-10:30 a.m. Thursday, Oct. 27, at Gatton Student Center Worsham Cinema, for the Hazard Identification Meeting to provide input and learn more about the planning process. If you cannot attend the meeting in-person, a Zoom link will be posted on this page (<https://police.uky.edu/hazard-mitigation-plan>).

Immediately following the meeting, an open house will be held from 10.30 a.m.-noon at the same location. Individuals who cannot come to the meeting are encouraged to drop by the open house to learn more. Staff will be in the hallway near the theater so students, faculty and staff can provide input and learn more about the update.

Additional ways UK community members can help:

- Complete the survey. (<https://questionpro.com/t/AJ8IIZuWeK>)
- Visit the website. (<https://police.uky.edu/hazard-mitigation-plan>)

UK's Hazard Mitigation Plan has kept the university in compliance with federal hazard mitigation planning standards resulting from the Regulations and Guidance | FEMA.gov (<https://www.fema.gov/emergency-managers/risk-management/hazard-mitigation-planning/regulations-guidance#:~:text=The%20Disaster%20Mitigation%20Act%20of%202000%20amended%20the,to%20emergency%20disaster%20assistance.>) as contained in 44 CFR 201.6. As a result, the university is an eligible applicant for state and federal funds for mitigation and disaster assistance grant programs administered by the Federal Emergency Management Agency (FEMA). These grants support the university in implementing projects that reduce risks. These projects can include structural projects like the stormwater project on Alumni Drive and nonstructural projects, like university policies that protect lives and property.

UK's Hazard Mitigation Plan is a collaborative effort on the part of UK Police - Division of Crisis Management and Preparedness (<http://www.uky.edu/EM/index.html>), the UK Hazard Mitigation Steering Committee, state and local agencies, the UK community and UK stakeholders.

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*In 2022, UK was ranked by Forbes as one of the “Best Employers for New Grads” and named a “Diversity Champion” by INSIGHT into Diversity, a testament to our commitment to advance Kentucky and create a community of belonging for everyone. While our mission looks different in many ways than it did in 1865, the vision of service to our Commonwealth and the world remains the same. We are the University **for** Kentucky.*

DRAFT

# Hazard Mitigation Plan

The University of Kentucky is currently updating its Hazard Mitigation Plan which will identify natural and human-caused hazards that may impact people, buildings, infrastructure, and research at the University and identify a set of actions that will reduce the likelihood those hazards will impact the University. Actions may include education programs, policy changes, emergency equipment, and structural projects. The Hazard Mitigation Plan will be developed through the completion of four planning phases:

- 1. Planning Process** - The process guides how the plan is developed and who is involved. A steering committee implements the planning process with participation from stakeholders that have relevant information, and includes students, faculty, and staff.
- 2. Risk Assessment** - Identify the characteristics and potential consequences of hazards. This includes understanding where the hazard may occur and what people, property or community assets may be in harm's way.
- 3. Mitigation Strategy** - The mitigation strategy sets priorities and develops long-term strategies for avoiding or minimizing the undesired effects of disasters. The strategy and mitigation actions are informed by the planning process, the risk assessment and the University's capability to implement the strategy.
- 4. Plan Maintenance** - The method and process for monitoring, evaluating, and updating the plan.



Example of a building level risk assessment depicting flood risk



## Hazards addressed in UK's plan

- |                     |                              |
|---------------------|------------------------------|
| Dam failure         | Landslide                    |
| Drought             | Severe storm                 |
| Earthquake          | Severe winter storm          |
| Extreme temperature | Tornado                      |
| Flood               | Hazardous materials          |
| Forest fire         | Emerging infectious diseases |
| Hailstorm           | Cybersecurity                |
| Karst/sinkhole      |                              |

## Benefits of mitigation planning

- Identifying actions for risk reduction that are agreed upon by stakeholders and the university community.
- Focusing resources on the greatest risks and vulnerabilities.
- Building partnerships by involving students, faculty and staff.
- Increasing education and awareness of threats and hazards, as well as their risks.
- Communicating priorities to State and Federal officials.
- Aligning risk reduction with other university objectives.
- Maintaining eligibility for FEMA hazard mitigation grants.



## Hewes, Kristen

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**From:** Wood, Laurel C. <laurel.wood@uky.edu>  
**Sent:** Thursday, February 2, 2023 1:27 PM  
**To:** Hewes, Kristen  
**Subject:** FW: Important Hazard (disaster) Mitigation Plan Survey/FW: Provide input for UK's Hazard Mitigation Plan  
**Attachments:** What is a Hazard Mitigation Plan.pdf

---

**From:** Ramey, Covetta H. <covetta.ramey@uky.edu>  
**Sent:** Thursday, February 2, 2023 1:21 PM  
**To:** coa-pstation-l@lsv.uky.edu  
**Cc:** Wood, Laurel C. <laurel.wood@uky.edu>  
**Subject:** Important Hazard (disaster) Mitigation Plan Survey/FW: Provide input for UK's Hazard Mitigation Plan

Good afternoon,

Please see the email below from Laurel Wood, who not only plays an integral part in our recovery process but she is also a Staff Senator. Laurel has reached out to the Staff Senate body asking that we share the survey she has created to solicit input for the UK Hazard Mitigation Plan.

I believe staff and faculty at Princeton would be able to contribute valuable information to this survey. If you would, please click on the survey link below and share your thoughts with Laurel.

Thank you in advance,

### *Covetta*

Covetta Ramey, Administrative Services Assistant (Business Officer)  
Staff Senator-Provost Sector/Benefits & Compensation Committee  
University of Kentucky  
Research and Education Center/Grain and Forage Center of Excellence  
348 University Drive (42445-6831)  
PO Box 469 (42445-0469)  
Princeton KY  
PHONE # 859-562-1302  
CELL # 270-625-5700

**You can support the Research and Education Center Fund on this page:**  
<https://bit.ly/3oTV95D>

Damage from the catastrophic EF4 tornado on December 10, 2021



---

**From:** For communicating day to day operations <[SENATORS-STAFFSENATE@LSV.UKY.EDU](mailto:SENATORS-STAFFSENATE@LSV.UKY.EDU)> **On Behalf Of** Wood, Laurel C.

**Sent:** Thursday, February 2, 2023 11:50 AM

**To:** [SENATORS-STAFFSENATE@LSV.UKY.EDU](mailto:SENATORS-STAFFSENATE@LSV.UKY.EDU)

**Subject:** Provide input for UK's Hazard Mitigation Plan

Good Afternoon Staff Senators,

As many of you know, my role includes assisting the University plan, prepare, mitigate, and recover from disasters and operational interruptions that impact UK's campuses. I'm reaching out to the Staff Senate to share information and encourage participation in UK's Hazard Mitigation Plan. I've attached a one-page summary that outlines UK's Hazard Mitigation Plan, including the link to complete a survey: [Complete the survey](#). I invite you to share this information and survey with your constituents.

UK was recently impacted by two major presidentially declared natural disasters; the tornados in Western Kentucky in December 2021, and flooding in eastern Kentucky in July 2022. The UK Research and Education Center in Princeton took a direct hit from the tornado. [University of Kentucky rises above tornado aftermath | College News \(uky.edu\)](#). UK HealthCare clinics, UK's Robinson Forest and the Robinson Center for Appalachian Resource Sustainability (RCARS) were impacted by severe flooding [University of Kentucky providing support to Eastern Kentucky after severe flooding | UKNow \(uky.edu\)](#). The purpose of the plan is to identify activities to mitigate the risks to people, buildings, infrastructure, and research from human-caused and natural hazard events like these.

There are two ways to participate and provide information:

- [Complete the survey](#). The University developed a survey for input from the University community and the results will be included in the plan: The deadline to complete the survey is February 8, 2023.
- [Visit the website](#) to learn about upcoming meeting dates and the project.

We are encouraging participation from the university community, including completing the survey, and participating in the plan review meeting that will be advertised on the website and held later this semester.

Please let me know if you have any questions. I look forward to your participation!

Thank you,





**Laurel Wood, MPA, PMP**

Director, Business Continuity | Staff Senator

University of Kentucky Police Department

Lexington, KY 40506

Office: 859.257.6655

Mobile: 859.537.0387

[laurel.wood@uky.edu](mailto:laurel.wood@uky.edu)

**Caution:** This email originated from outside of Stantec. Please take extra precaution.

**Attention:** Ce courriel provient de l'extérieur de Stantec. Veuillez prendre des précautions supplémentaires.

**Atención:** Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.

DRAFT

## Hewes, Kristen

---

**From:** Wood, Laurel C. <laurel.wood@uky.edu>  
**Sent:** Thursday, February 2, 2023 12:36 PM  
**To:** CCERT@LSV.UKY.EDU  
**Cc:** Hewes, Kristen; Bucher, John; Brown, Nathan; Turner, Robert K.; Chaney, Ashley; Overman, Jay K.; Banahan, Amanda L.; Woodson, Sally; Holcombe Lewis, Veronda B.; Hurley, Christina  
**Subject:** Provide input for UK's Hazard Mitigation Plan  
**Attachments:** What is a Hazard Mitigation Plan.pdf

Good Afternoon Campus CERT,

As you know, my role includes assisting the University plan, prepare, mitigate, and recover from disasters and operational interruptions that impact UK's campuses. I'm reaching out to the Campus Community Emergency Response Team to share information and encourage participation in UK's Hazard Mitigation Plan. I've attached a one-page summary that outlines UK's Hazard Mitigation Plan, including the link to complete a survey: [Complete the survey](#). I invite you to share this information and survey with students, peers, and colleagues.

UK was recently impacted by two major presidentially declared natural disasters; the tornados in Western Kentucky in December 2021, and flooding in eastern Kentucky in July 2022. The UK Research and Education Center in Princeton took a direct hit from the tornado. [University of Kentucky rises above tornado aftermath | College News \(uky.edu\)](#). UK HealthCare clinics, UK's Robinson Forest and the Robinson Center for Appalachian Resource Sustainability (RCARS) were impacted by severe flooding [University of Kentucky providing support to Eastern Kentucky after severe flooding | UKNow \(uky.edu\)](#). The purpose of the plan is to identify activities to mitigate the risks to people, buildings, infrastructure, and research from human-caused and natural hazard events like these.

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Please let me know if you have any questions. I look forward to your participation!

Thank you,



**Laurel Wood, MPA, PMP**  
Director, Business Continuity | Staff Senator  
University of Kentucky Police Department  
Lexington, KY 40506  
Office: 859.257.6655  
Mobile: 859.537.0387  
[laurel.wood@uky.edu](mailto:laurel.wood@uky.edu)

## Hewes, Kristen

---

**From:** Wood, Laurel C. <laurel.wood@uky.edu>  
**Sent:** Thursday, February 2, 2023 12:43 PM  
**To:** Staff Senate  
**Cc:** Hewes, Kristen; Bucher, John; Brown, Nathan; Turner, Robert K.; Chaney, Ashley; Overman, Jay K.; Banahan, Amanda L.; Woodson, Sally; Holcombe Lewis, Veronda B.; Hurley, Christina  
**Subject:** Provide input for UK's Hazard Mitigation Plan  
**Attachments:** What is a Hazard Mitigation Plan.pdf

Good Afternoon Staff Senators,

As many of you know, my role includes assisting the University plan, prepare, mitigate, and recover from disasters and operational interruptions that impact UK's campuses. I'm reaching out to the Staff Senate to share information and encourage participation in UK's Hazard Mitigation Plan. I've attached a one-page summary that outlines UK's Hazard Mitigation Plan, including the link to complete a survey: [Complete the survey](#). I invite you to share this information and survey with your constituents.

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We are encouraging participation from the university community, including completing the survey, and participating in the plan review meeting that will be advertised on the website and held later this semester.

Please let me know if you have any questions. I look forward to your participation!

Thank you,



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Director, Business Continuity | Staff Senator  
University of Kentucky Police Department  
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Office: 859.257.6655  
Mobile: 859.537.0387  
[laurel.wood@uky.edu](mailto:laurel.wood@uky.edu)

## Hewes, Kristen

---

**From:** Wood, Laurel C. <laurel.wood@uky.edu>  
**Sent:** Thursday, February 2, 2023 12:27 PM  
**To:** Messer, Tiffany; Escobar, Isabel C.; Fox, James F.; Brion, Gail; Yost, Scott; Talbert, Jeffery C.; Barzee, Tyler J.; Bray, Zachary A.; Tedder, Shane; Pennell, Kelly G.; Blevins, Justin; Agouridis, Carmen; Laws, Andrew E.; Turner, Helen; Jewell, Bob; Childress, Michael T.; Darolia, Rajeev; Agrawal, David R.; Annis, Catherine L.; Benitez, Joseph A.; Blumenschein, Karen M.; Bollinger, Christopher R.; Curl, Cory; Hameduddin, Taha; Harvey, Hope M.; Kim, Doo Oak; Lee, Jeongyoon; Peffley, M A.; Shybalkina, Iuliia; Trautman, Rhonda R.; Voss, D S.; Waddington, Richard J.; Yelowitz, Aaron S.  
**Cc:** Hewes, Kristen; Bucher, John; Brown, Nathan; Turner, Robert K.; Chaney, Ashley; Overman, Jay K.; Banahan, Amanda L.; Woodson, Sally; Holcombe Lewis, Veronda B.; Hurley, Christina  
**Subject:** Provide input for UK's Hazard Mitigation Plan  
**Attachments:** What is a Hazard Mitigation Plan.pdf

Good Afternoon,

In my role at UK, I help the University plan, prepare, mitigate, and recover from disasters and operational interruptions that impact UK's campuses. I'm reaching out to UK Faculty with subject matter expertise overlapping with components included in UK's Hazard Mitigation Plan, to share information and encourage participation in the planning process. I've attached a one-page summary that outlines UK's Hazard Mitigation Plan, including the link to complete a survey: [Complete the survey](#). I invite you to share this information and survey with your students, peers, and colleagues.

UK was recently impacted by two major presidentially declared natural disasters; the tornados in Western Kentucky in December 2021, and flooding in eastern Kentucky in July 2022. The UK Research and Education Center in Princeton took a direct hit from the tornado. [University of Kentucky rises above tornado aftermath | College News \(uky.edu\)](#). UK HealthCare clinics, UK's Robinson Forest and the Robinson Center for Appalachian Resource Sustainability (RCARS) were impacted by severe flooding [University of Kentucky providing support to Eastern Kentucky after severe flooding | UKNow \(uky.edu\)](#). The purpose of the plan is to identify activities to mitigate the risks to people, buildings, infrastructure, and research from human-caused and natural hazard events like these.

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We are encouraging participation from the university community, including completing the survey and participating in the plan review meeting that will be advertised on the website and held later this semester. More information can also be found in these UKNow articles: [University community invited to help update UK Hazard Mitigation Plan | UKNow \(uky.edu\)](#) and [Provide input on natural hazards that affect UK community | UKNow \(uky.edu\)](#)

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Mobile: 859.537.0387

[laurel.wood@uky.edu](mailto:laurel.wood@uky.edu)

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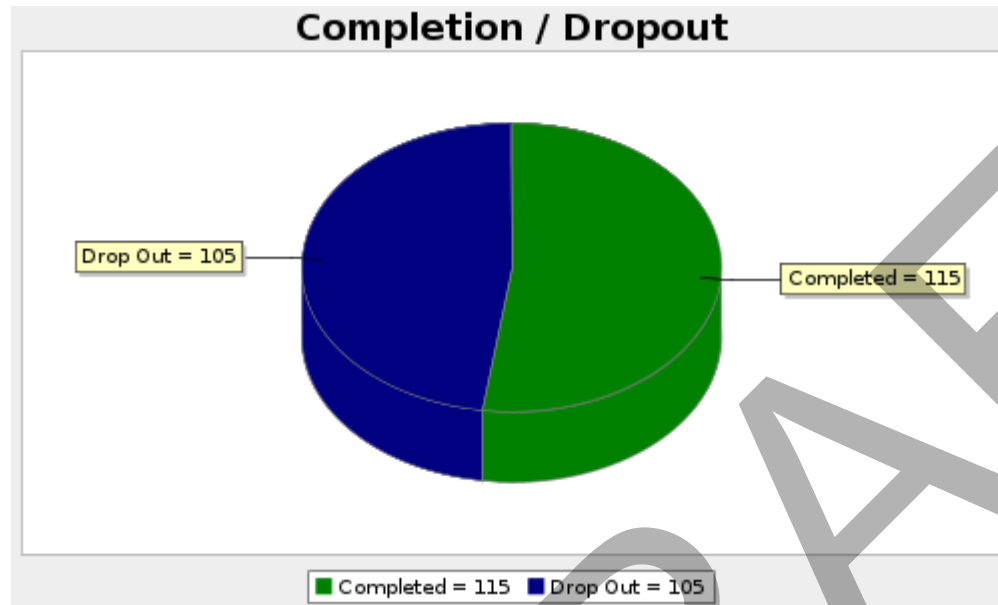
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# University of Kentucky - Hazard Mitigation Plan

**My Dashboard**

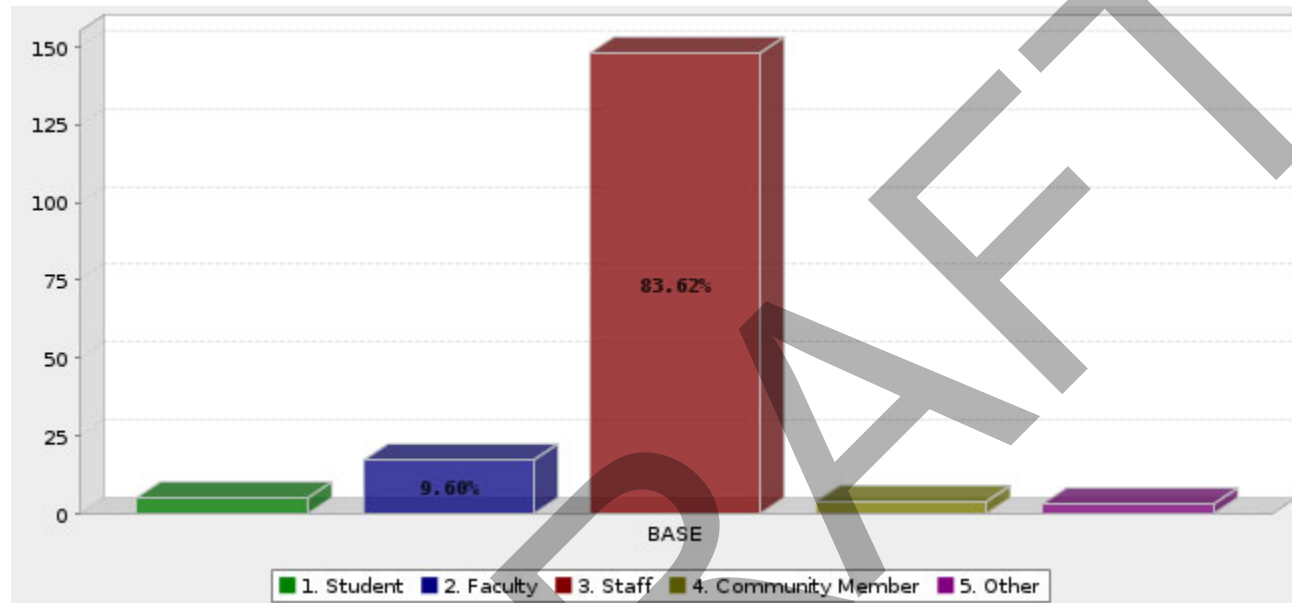
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# Survey Overview



Viewed	Started	Completed	Completion Rate	Drop Outs (After Starting)	Average Time to Complete Survey
858	220	115	52.27%	105	9 minutes

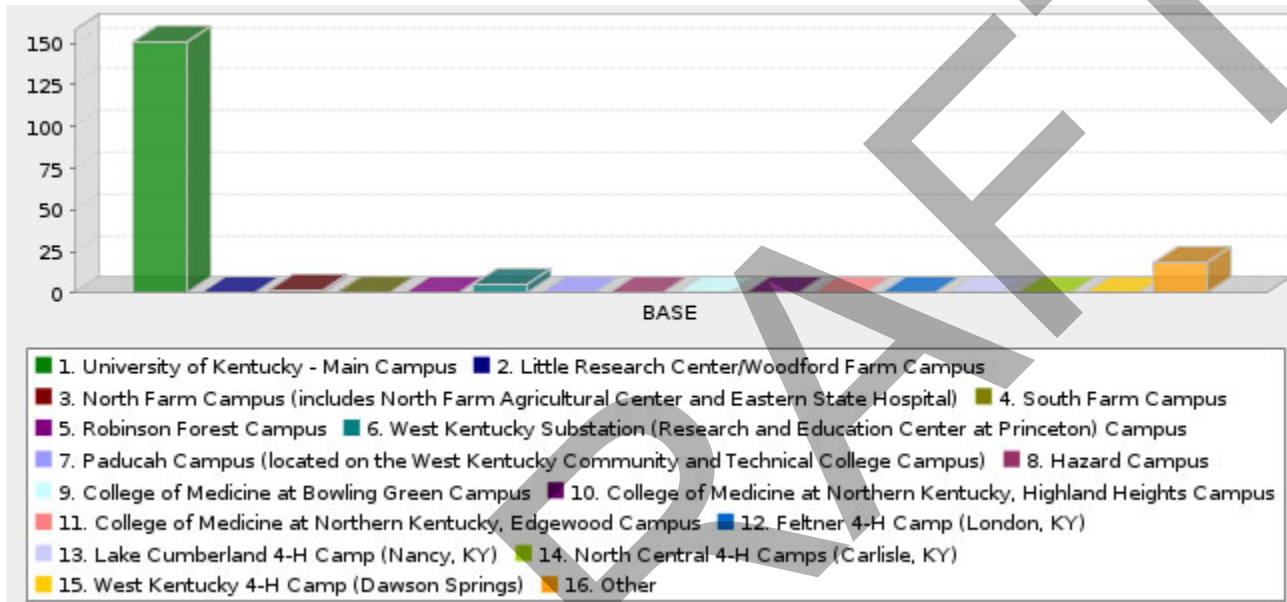
## Q2. What is your affiliation with the University?



	Answer	Count	Percent
1.	Student	5	2.82%
2.	Faculty	17	9.60%
3.	Staff	148	83.62%
4.	Community Member	4	2.26%
5.	Other	3	1.69%
	Total	177	100%
Mean : <b>2.904</b>		Confidence Interval @ 95% : <b>[2.824 - 2.984]</b>	Standard Deviation : <b>0.540</b>
		Standard Error : <b>0.041</b>	



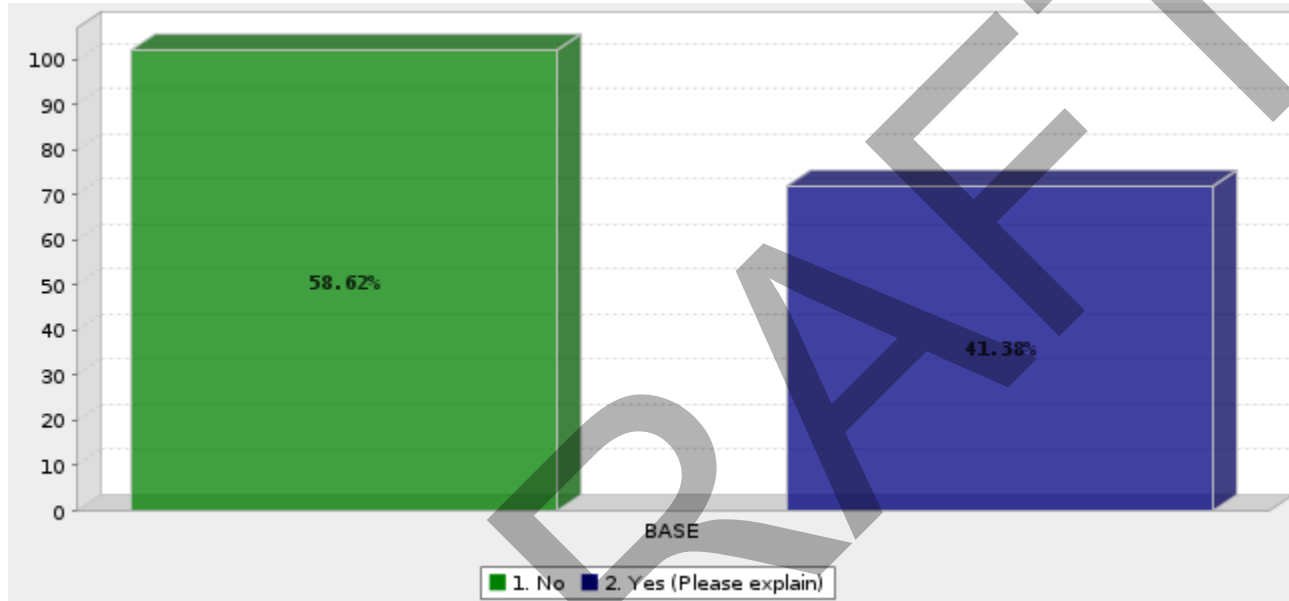
### Q3. On which campus do you typically attend class, work, or attend events?



	Answer	Count	Percent
1.	University of Kentucky - Main Campus	151	85.31%
2.	Little Research Center/Woodford Farm Campus	0	0.00%
3.	North Farm Campus (includes North Farm Agricultural Center and Eastern State Hospital)	2	1.13%
4.	South Farm Campus	1	0.56%
5.	Robinson Forest Campus	0	0.00%
6.	West Kentucky Substation (Research and Education Center at Princeton) Campus	5	2.82%

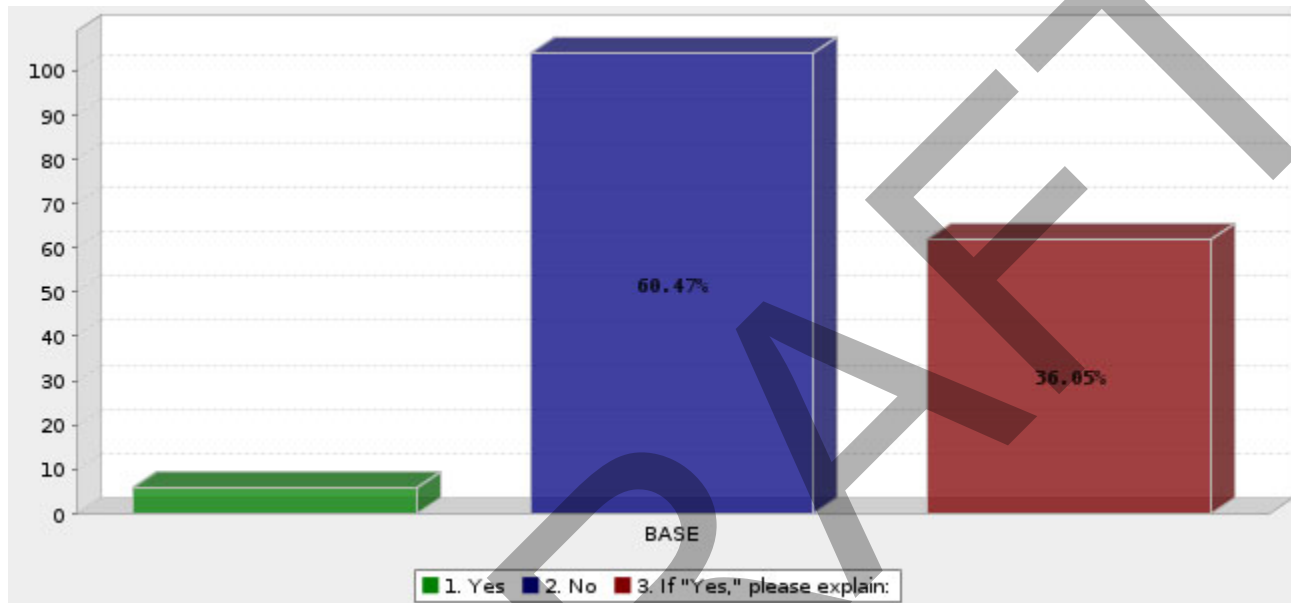
7.	Paducah Campus (located on the West Kentucky Community and Technical College Campus)	0	0.00%
8.	Hazard Campus	0	0.00%
9.	College of Medicine at Bowling Green Campus	0	0.00%
10.	College of Medicine at Northern Kentucky, Highland Heights Campus	0	0.00%
11.	College of Medicine at Northern Kentucky, Edgewood Campus	0	0.00%
12.	Feltner 4-H Camp (London, KY)	0	0.00%
13.	Lake Cumberland 4-H Camp (Nancy, KY)	0	0.00%
14.	North Central 4-H Camps (Carlisle, KY)	0	0.00%
15.	West Kentucky 4-H Camp (Dawson Springs)	0	0.00%
16.	Other	18	10.17%
	Total	177	100%
<b>Mean : 2.706</b>		<b>Confidence Interval @ 95% : [2.033 - 3.380]</b>	<b>Standard Deviation : 4.571</b>
		<b>Standard Error : 0.344</b>	

### Q4. Have you ever experienced or been impacted by a hazard on campus?



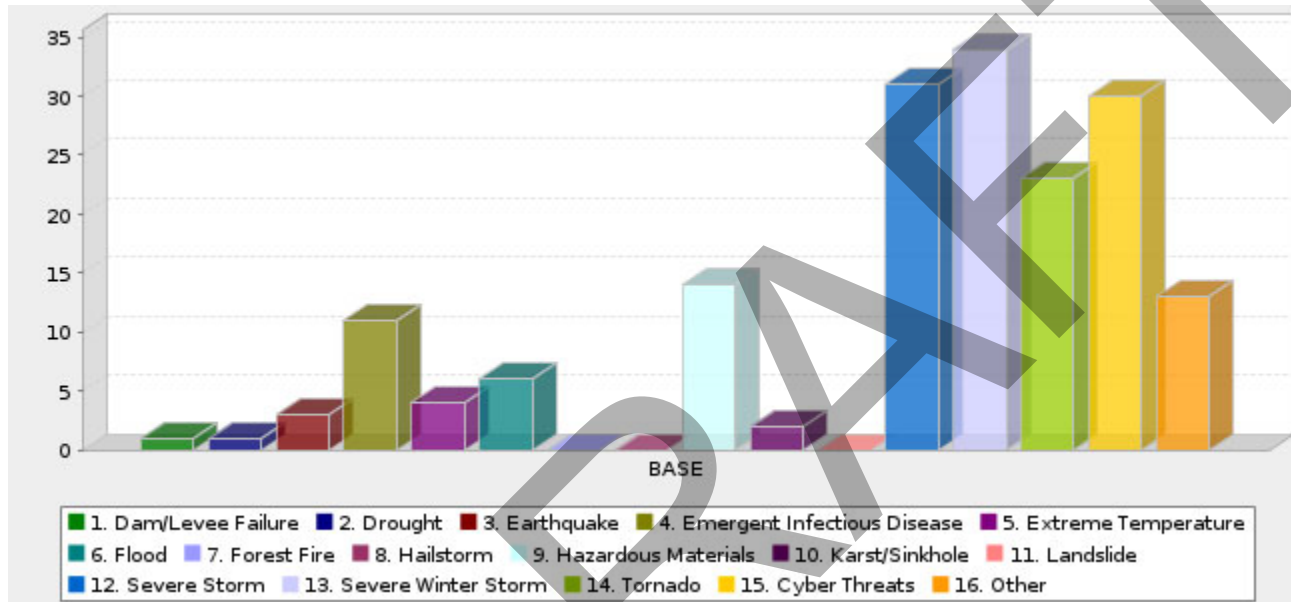
	Answer	Count	Percent
	1. No	102	58.62%
	2. Yes (Please explain)	72	41.38%
	Total	174	100%
Mean : 1.414		Confidence Interval @ 95% : [1.340 - 1.487]	
		Standard Deviation : 0.494	
		Standard Error : 0.037	

### Q5. Have you ever experienced or been impacted by a disaster?



	Answer	Count	Percent
	1. Yes	6	3.49%
	2. No	104	60.47%
	3. If 'Yes,' please explain:	62	36.05%
	Total	172	100%
Mean : <b>2.326</b>		Confidence Interval @ 95% : [2.245 - 2.406]	
		Standard Deviation : <b>0.539</b>	
		Standard Error : <b>0.041</b>	

**Q6. Please select the one hazard you think is the highest threat to the University:**

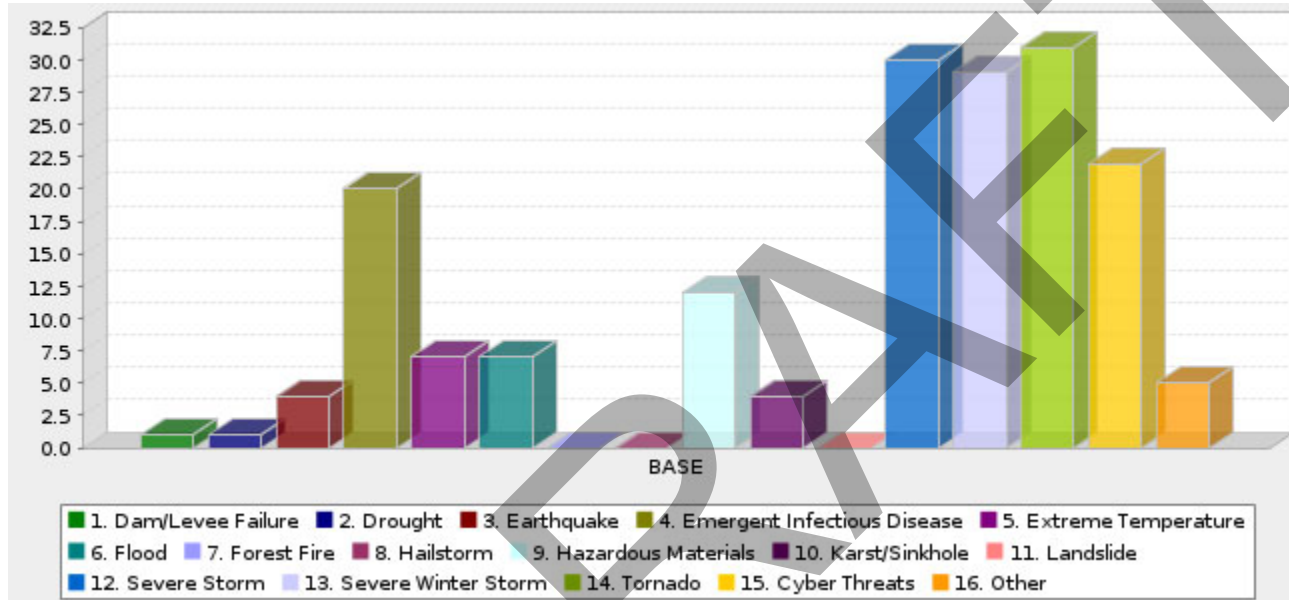


	<b>Answer</b>	<b>Count</b>	<b>Percent</b>
1.	Dam/Levee Failure	1	0.58%
2.	Drought	1	0.58%
3.	Earthquake	3	1.73%
4.	Emergent Infectious Disease	11	6.36%
5.	Extreme Temperature	4	2.31%
6.	Flood	6	3.47%

7.	Forest Fire	0	0.00%
8.	Hailstorm	0	0.00%
9.	Hazardous Materials	14	8.09%
10.	Karst/Sinkhole	2	1.16%
11.	Landslide	0	0.00%
12.	Severe Storm	31	17.92%
13.	Severe Winter Storm	34	19.65%
14.	Tornado	23	13.29%
15.	Cyber Threats	30	17.34%
16.	Other	13	7.51%
	Total	173	100%
<b>Mean : 11.861</b>		<b>Confidence Interval @ 95% : [11.315 - 12.408]</b>	<b>Standard Deviation : 3.668</b>
		<b>Standard Error : 0.279</b>	

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**Q7. Please select the one hazard you think is the second highest threat to the University:**



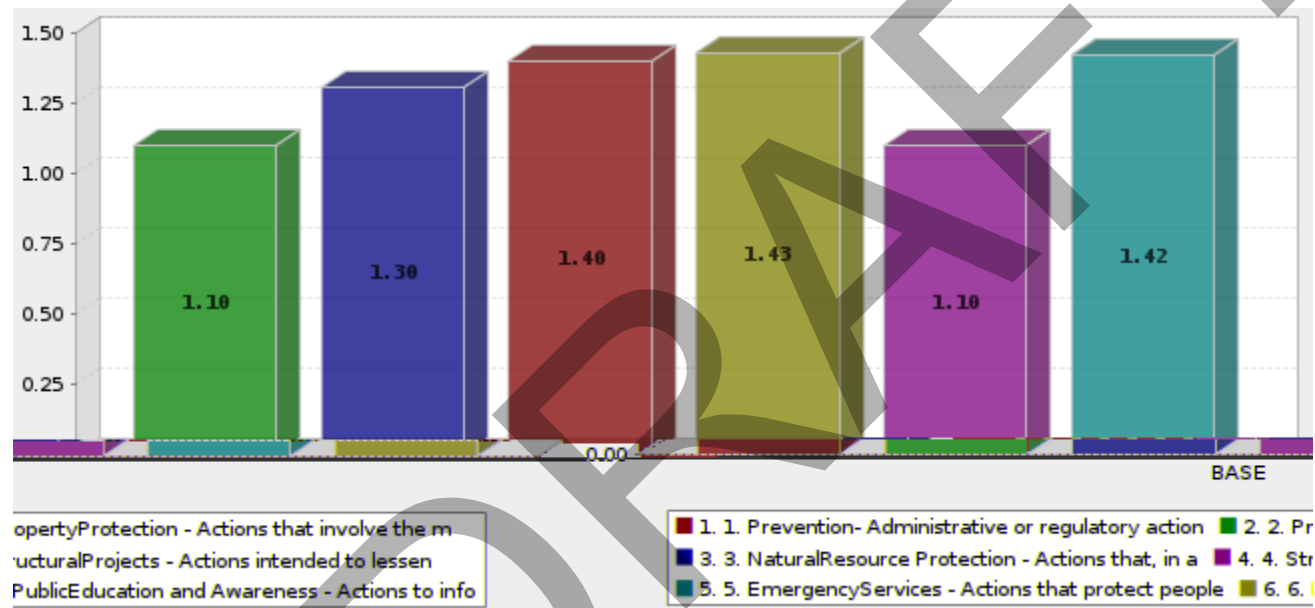
	<b>Answer</b>	<b>Count</b>	<b>Percent</b>
1.	Dam/Levee Failure	1	0.58%
2.	Drought	1	0.58%
3.	Earthquake	4	2.31%
4.	Emergent Infectious Disease	20	11.56%
5.	Extreme Temperature	7	4.05%
6.	Flood	7	4.05%

7.	Forest Fire	0	0.00%
8.	Hailstorm	0	0.00%
9.	Hazardous Materials	12	6.94%
10.	Karst/Sinkhole	4	2.31%
11.	Landslide	0	0.00%
12.	Severe Storm	30	17.34%
13.	Severe Winter Storm	29	16.76%
14.	Tornado	31	17.92%
15.	Cyber Threats	22	12.72%
16.	Other	5	2.89%
	Total	173	100%
Mean : <b>10.988</b>		Confidence Interval @ 95% : <b>[10.387 - 11.589]</b>	Standard Deviation : <b>4.033</b>
			Standard Error : <b>0.307</b>

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**Q10. A number of campus-wide activities can reduce our risk from hazards. In general, these activities fall into one of the following six broad categories. Please tell us how important you think each one is for the University to pursue.**



Q10. Overall Matrix Scorecard : A number of campus-wide activities can reduce our risk from hazards. In general, these activities fall into one of the following six broad categories. Please tell us how important you think each one is for the University to pursue.

Question	Count	Score
1. 1. <b>Prevention</b> - Administrative or regulatory actions that influence the	126	1.095

	way land is developed and buildings are built. Examples include planning and zoning, building codes, open space preservation, and floodplain regulations.			
2.	<b>2. Property Protection</b> - Actions that involve the modification of existing buildings to protect them from a hazard or removal from the hazard area. Examples include acquisition, relocation, elevation, structural retrofits, and storm shutters.	126	1.302	
3.	<b>3. Natural Resource Protection</b> - Actions that, in addition to minimizing hazard losses, also preserve or restore the functions of natural systems. Examples include: floodplain protection, habitat preservation, slope stabilization, riparian buffers, and forest management.	126	1.397	
4.	<b>4. Structural Projects</b> - Actions intended to lessen the impact of a hazard by modifying the natural progression of the hazard. Examples include dams, levees, detention/retention basins, channel modification, retaining walls, and storm sewers.	126	1.429	
5.	<b>5. Emergency Services</b> - Actions that protect people and property	126	1.095	

	during and immediately after a hazard event. Examples include warning systems, evacuation planning, emergency response training, and protection of critical emergency facilities or systems.			
6.	<b>6. Public Education and Awareness</b> - Actions to inform citizens about hazards and the techniques they can use to protect themselves and their property. Examples include outreach projects, school education programs, library materials, and demonstration events.	126	1.421	
		Average	<b>1.290</b>	

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## **Q10. 1. Prevention**

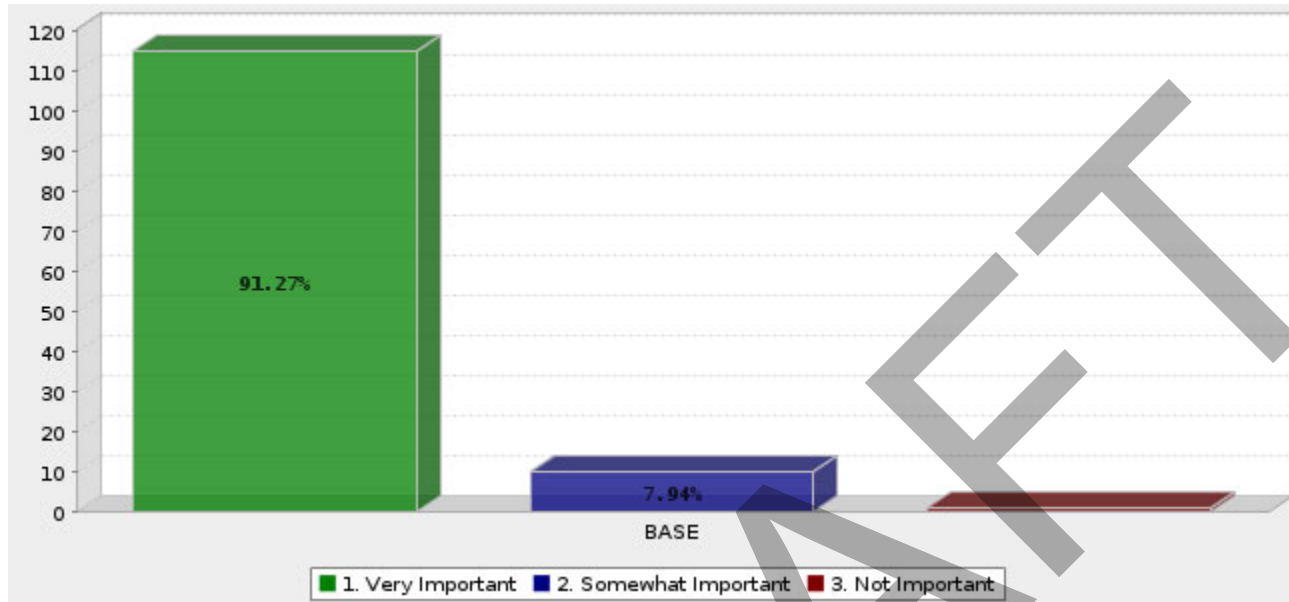
**- Administrative or regulatory actions that influence the way land is developed**

**and buildings are built. Examples**

**include planning and zoning, building codes, open space preservation, and**

**floodplain regulations.**

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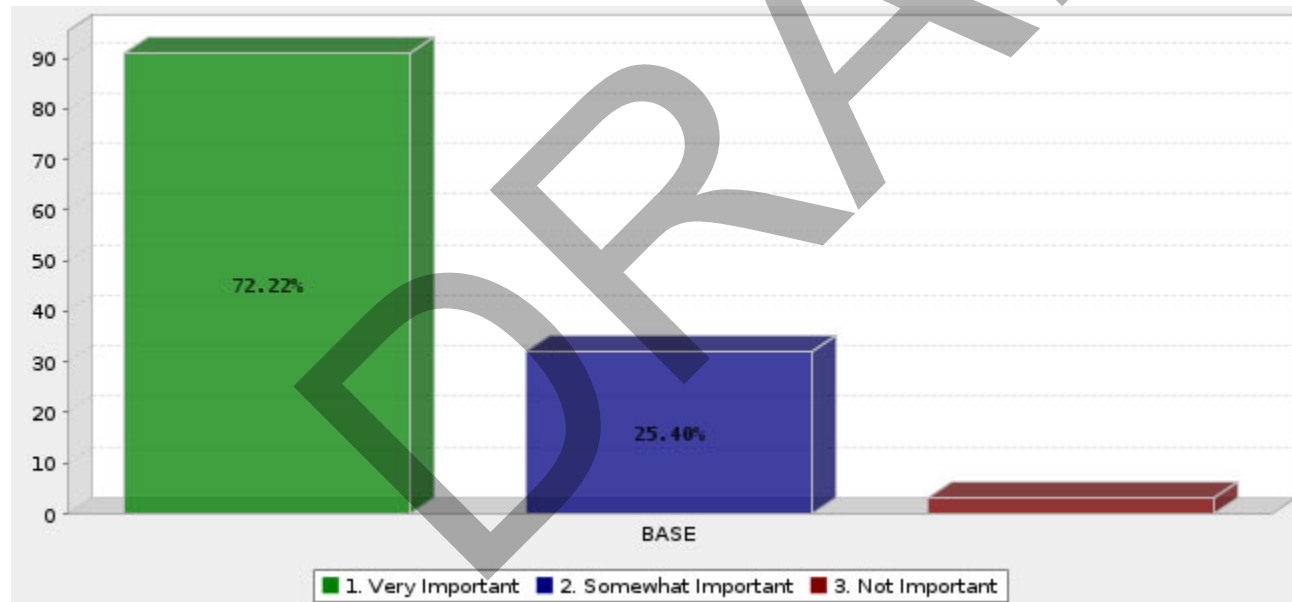
	Answer	Count	Percent
	1. Very Important	115	91.27%
	2. Somewhat Important	10	7.94%
	3. Not Important	1	0.79%
	Total	126	100%
Mean : <b>1.095</b>		Confidence Interval @ 95% : [1.039 - 1.151]	
		Standard Deviation : <b>0.321</b>	
		Standard Error : <b>0.029</b>	

## Q10. 2. Property

**Protection - Actions that involve the modification of existing buildings to**

**protect them from a hazard or removal from the hazard area. Examples include acquisition, relocation,**

**elevation, structural retrofits, and storm shutters.**

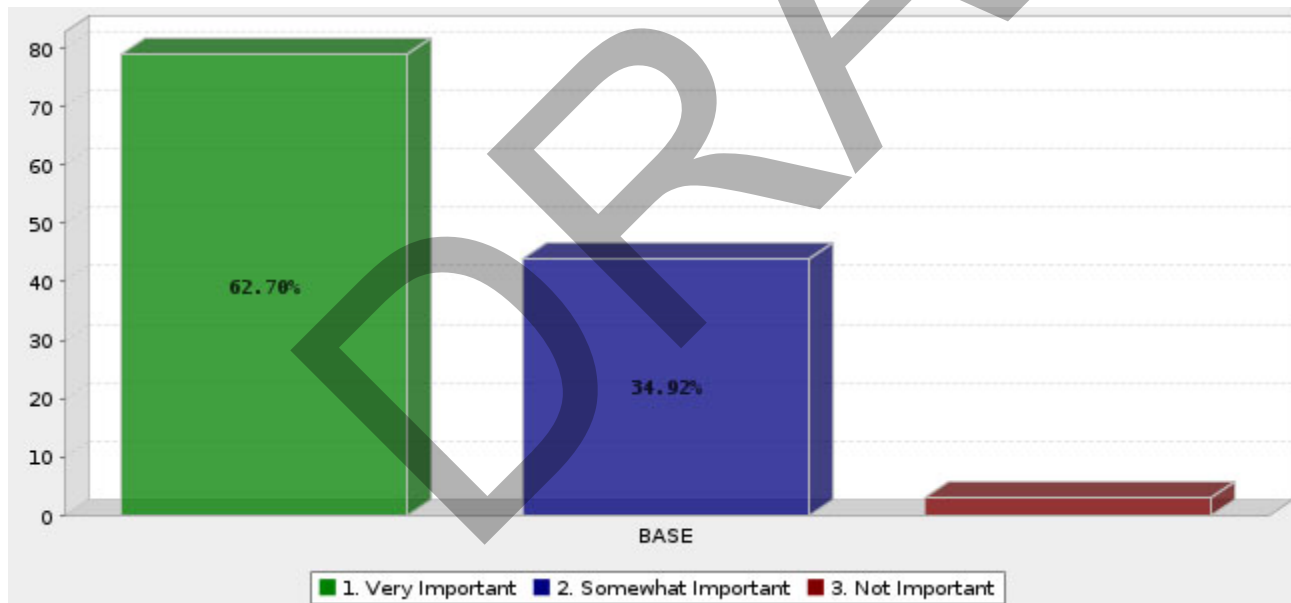


	<b>Answer</b>	<b>Count</b>	<b>Percent</b>
1.	Very Important	91	72.22%
2.	Somewhat Important	32	25.40%
3.	Not Important	3	2.38%
	Total	126	100%
Mean : <b>1.302</b>		Confidence Interval @ 95% : <b>[1.212 - 1.391]</b>	Standard Deviation : <b>0.510</b>
			Standard Error : <b>0.045</b>

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### Q10. 3. Natural

**Resource Protection - Actions that, in addition to minimizing hazard losses, also preserve or restore the functions of natural systems. Examples include: floodplain protection, habitat preservation, slope stabilization, riparian buffers, and forest management.**





	<b>Answer</b>	<b>Count</b>	<b>Percent</b>
1.	Very Important	79	62.70%
2.	Somewhat Important	44	34.92%
3.	Not Important	3	2.38%
	Total	126	100%
<b>Mean : 1.397</b>		<b>Confidence Interval @ 95% : [1.303 - 1.491]</b>	<b>Standard Deviation : 0.538</b>
			<b>Standard Error : 0.048</b>

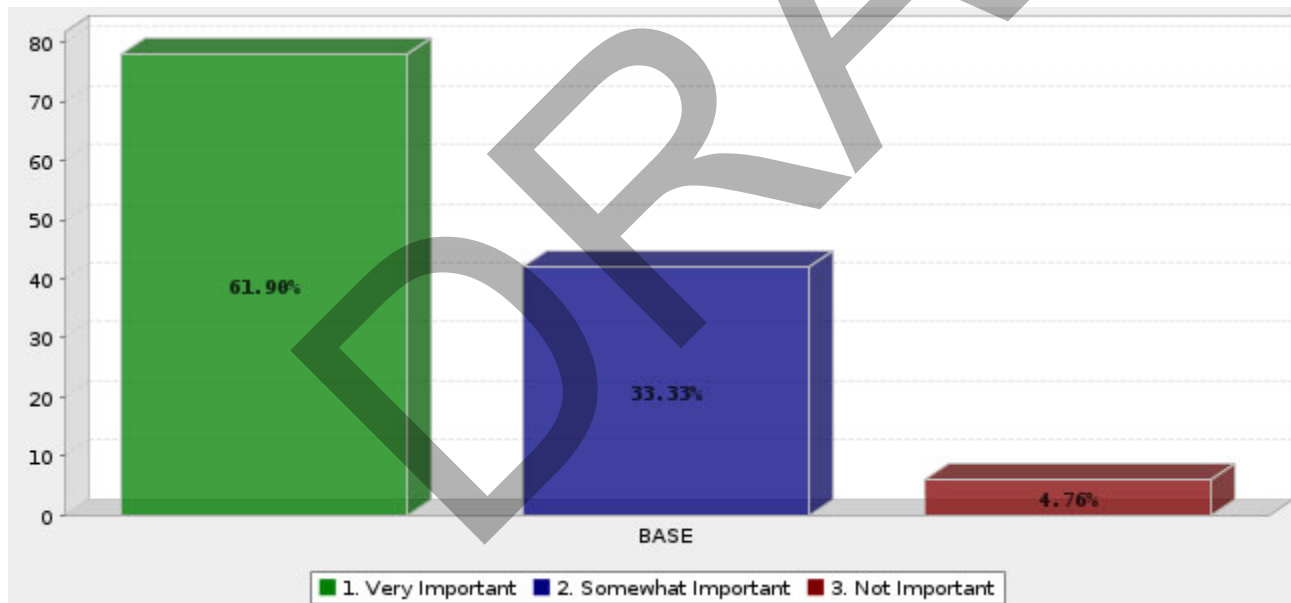
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## Q10. 4. Structural

**Projects - Actions intended to lessen the impact of a hazard by modifying**

**the natural progression of the hazard.**

**Examples include dams, levees, detention/retention basins, channel modification, retaining walls, and storm sewers.**



	<b>Answer</b>	<b>Count</b>	<b>Percent</b>
1.	Very Important	78	61.90%
2.	Somewhat Important	42	33.33%
3.	Not Important	6	4.76%
	Total	126	100%
Mean : <b>1.429</b>		Confidence Interval @ 95% : <b>[1.326 - 1.531]</b>	Standard Deviation : <b>0.586</b>
			Standard Error : <b>0.052</b>

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## **Q10. 5. Emergency**

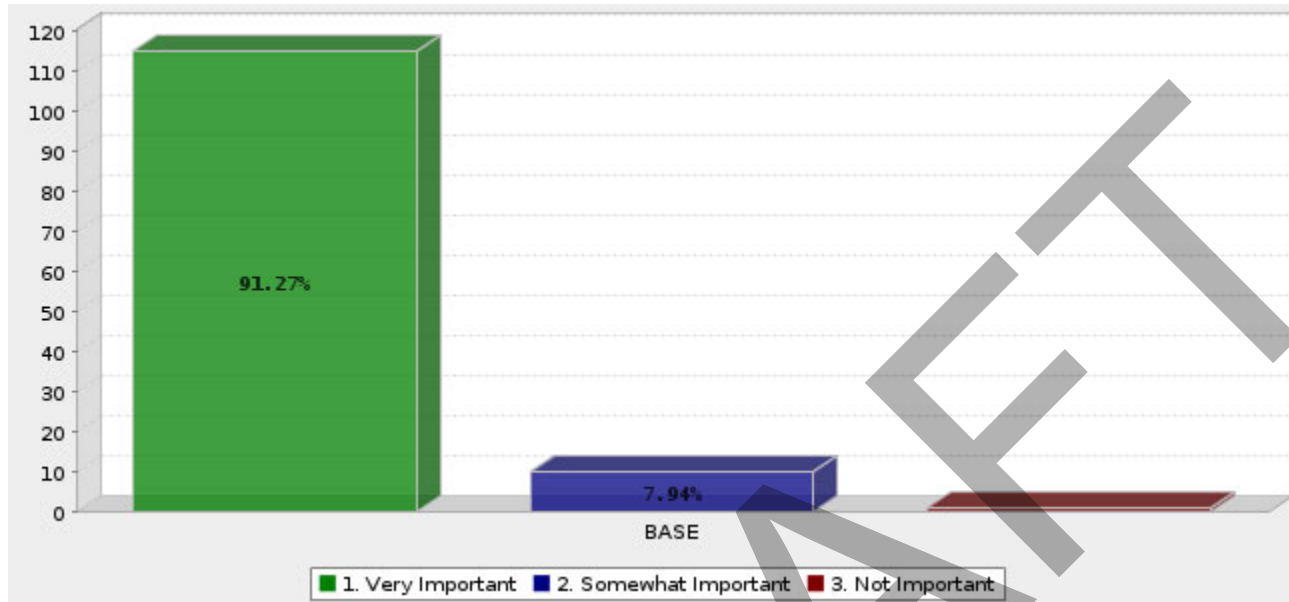
**Services - Actions that protect people and property during and immediately**

**after a hazard event. Examples include**

**warning systems, evacuation planning, emergency response training, and**

**protection of critical emergency facilities or systems.**

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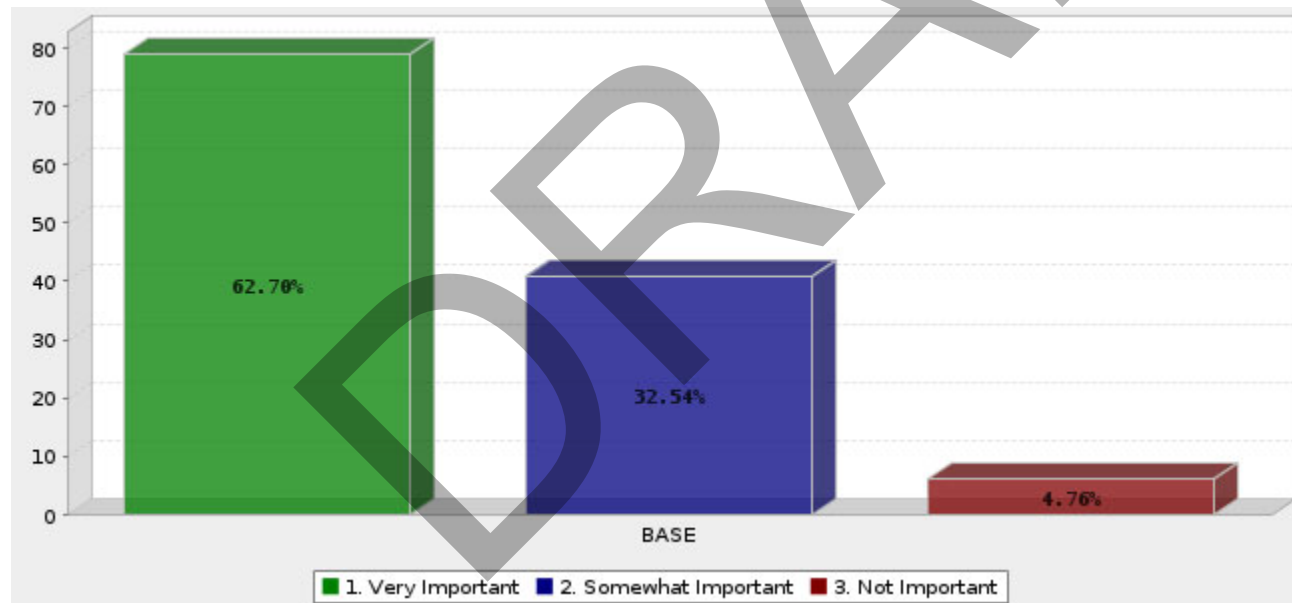
	Answer	Count	Percent
	1. Very Important	115	91.27%
	2. Somewhat Important	10	7.94%
	3. Not Important	1	0.79%
	Total	126	100%
Mean : <b>1.095</b>	Confidence Interval @ 95% : [1.039 - 1.151]	Standard Deviation : <b>0.321</b>	Standard Error : <b>0.029</b>

## Q10. 6. Public

**Education and Awareness - Actions to inform citizens about hazards and the**

**techniques they can use to protect themselves and their property. Examples include outreach projects, school**

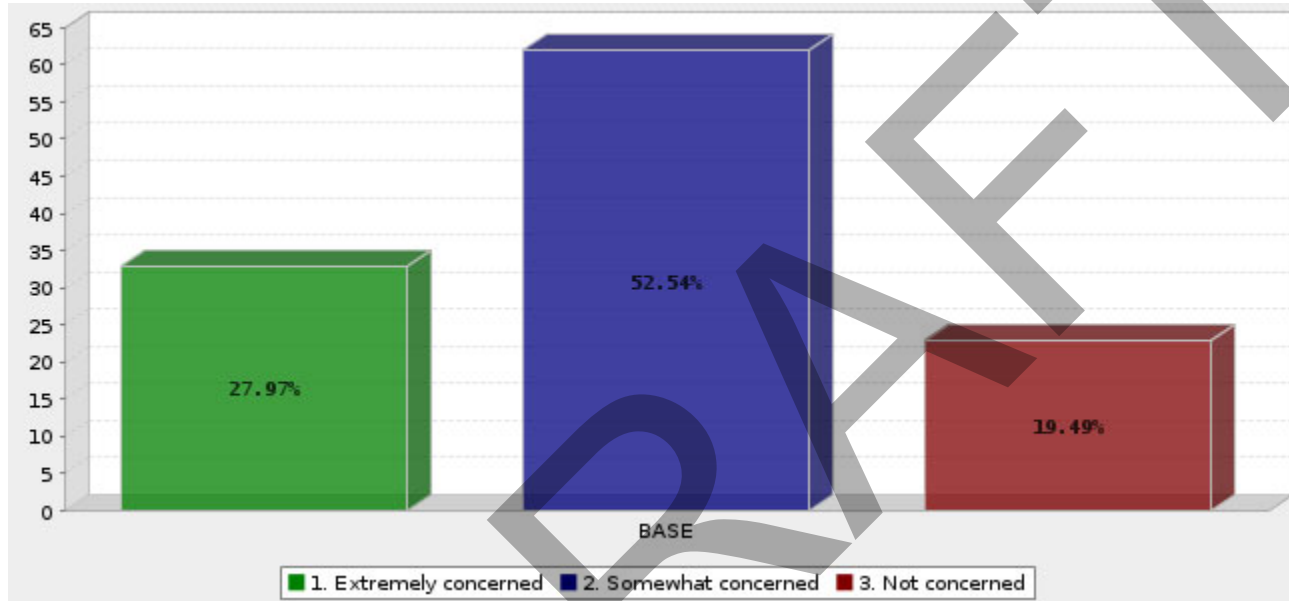
**education programs, library materials, and demonstration events.**



	<b>Answer</b>	<b>Count</b>	<b>Percent</b>
1.	Very Important	79	62.70%
2.	Somewhat Important	41	32.54%
3.	Not Important	6	4.76%
	Total	126	100%
Mean : <b>1.421</b>		Confidence Interval @ 95% : <b>[1.319 - 1.523]</b>	Standard Deviation : <b>0.585</b>
			Standard Error : <b>0.052</b>

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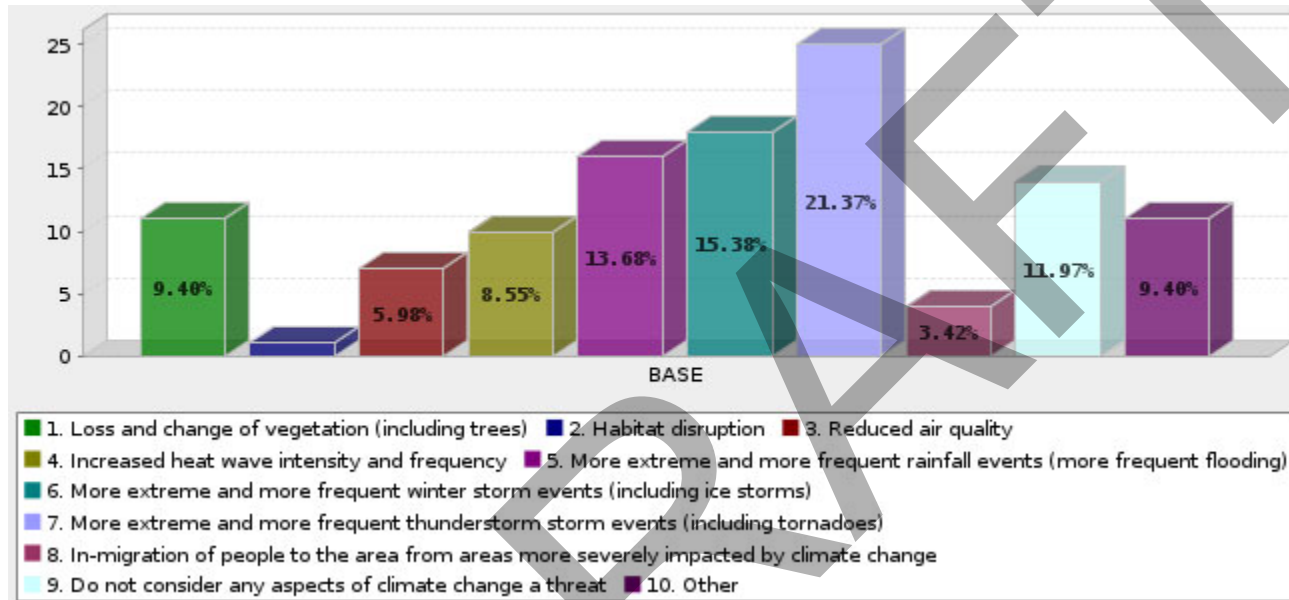
# Q11. How concerned are you about the possibility of the University being impacted by climate change?



	Answer	Count	Percent
	1. Extremely concerned	33	27.97%
	2. Somewhat concerned	62	52.54%
	3. Not concerned	23	19.49%
	Total	118	100%
Mean : <b>1.915</b>		Confidence Interval @ 95% : [1.791 - 2.039]	Standard Deviation : <b>0.687</b>
			Standard Error : <b>0.063</b>



## Q12. Which aspect of climate change is the highest threat to the University in your opinion?

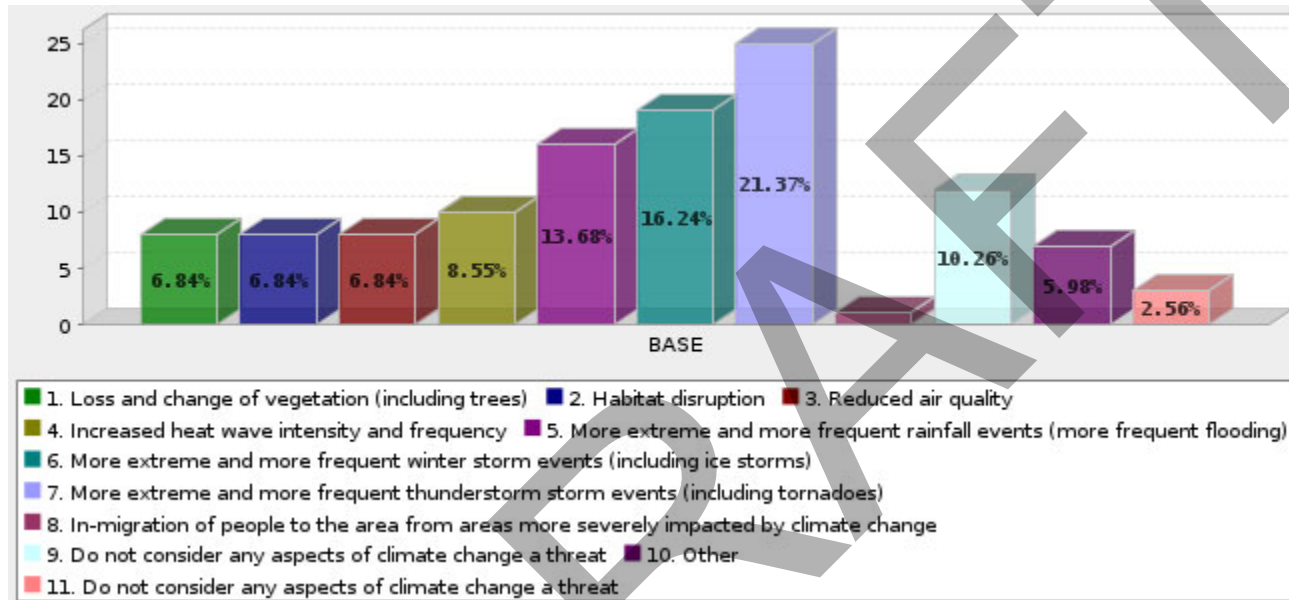


	Answer	Count	Percent
1.	Loss and change of vegetation (including trees)	11	9.40%
2.	Habitat disruption	1	0.85%
3.	Reduced air quality	7	5.98%
4.	Increased heat wave intensity and frequency	10	8.55%
5.	More extreme and more frequent rainfall events (more frequent flooding)	16	13.68%
6.	More extreme and more frequent winter storm events (including ice storms)	18	15.38%

7.	More extreme and more frequent thunderstorm storm events (including tornadoes)	25	21.37%
8.	In-migration of people to the area from areas more severely impacted by climate change	4	3.42%
9.	Do not consider any aspects of climate change a threat	14	11.97%
10.	Other	11	9.40%
	Total	117	100%
Mean : <b>6.026</b>		Confidence Interval @ 95% : <b>[5.564 - 6.487]</b>	Standard Deviation : <b>2.548</b>
		Standard Error : <b>0.236</b>	

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### Q13. Which aspect of climate change is the second highest threat to the University in your opinion?



	Answer	Count	Percent
1.	Loss and change of vegetation (including trees)	8	6.84%
2.	Habitat disruption	8	6.84%
3.	Reduced air quality	8	6.84%
4.	Increased heat wave intensity and frequency	10	8.55%
5.	More extreme and more frequent rainfall events (more frequent flooding)	16	13.68%
6.	More extreme and more frequent winter storm events (including ice storms)	19	16.24%

7.	More extreme and more frequent thunderstorm storm events (including tornadoes)	25	21.37%
8.	In-migration of people to the area from areas more severely impacted by climate change	1	0.85%
9.	Do not consider any aspects of climate change a threat	12	10.26%
10.	Other	7	5.98%
11.	Do not consider any aspects of climate change a threat	3	2.56%
	Total	117	100%
Mean : <b>5.778</b>		Confidence Interval @ 95% : <b>[5.310 - 6.246]</b>	Standard Deviation : <b>2.583</b>
			Standard Error : <b>0.239</b>

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**Q24. In your opinion, what are some of the things the University is currently doing that should be continued in order to reduce or eliminate the climate change impacts on campus?**

33198528	Not familiar with what the University is doing in this area.
33196582	plant more trees
33195737	Having increased "green" spaces where there is natural biodiversity.
33189329	Sustainability. It is nice when we can do things ourselves.
33189232	I do not worry about those things. I think the efforts we are currently making to reduce our carbon footprint is important and should continue.
33189213	Recycling everything possible! This keeps us from mining for resources -- which keeps habitats/landscapes undisturbed.
33189175	Don't know what you are currently doing
33188974	greener energy & habitat restoration
33188973	Research to discover more and better ways to adapt to weather changes including drought tolerant crops.
33188961	The use of LED lights
33188904	n/a
33188903	Purchase more equipment to clear the snow and ice
33188901	Keeping all of the buildings, especially the older structures, updated. Especially with extreme weather, strong structural buildings will help keep everyone safe.
33188861	Not sure they are doing much other than allowing remote work for some offices.

33188259	unknown
33188197	Continual expansion of drainage systems, education about climate change
33188184	unknown
33187949	Teach
33187942	We are a coal run campus but that shouldn't be our main focus. Solar panels or similar Alternative to supplement and possibly take over in the event of lack of coal or coal cooling plants breaking down.
33187923	Not educated to what all they do- Education
33187823	There's not a lot the University can do, since it's mainly massive corporations who are causing climate change. I appreciate how the university has places to recycle, and the water bottle filling stations are nice.
33187820	preserving our green spaces
33187811	Not sure.
33187705	I don't think they are doing anything to address threats. At least if they are, they failed miserably to execute it.
33187603	I don't know what the University is currently doing. This would be interesting to learn.
33187587	"Green" initiatives and sustainability resources; tree protection standards; advanced recycling programs.
33187549	unsure
33187543	Upgrading buildings to be more energy efficient.
33184517	sustainability planning and implementation
33181372	recent storm water projects not just esthetically pleasing but will help to reduce flooding
33181343	The climate has been changing since the beginning of time . Activists need to get a clue . A non factor .
33181335	n/a
33181328	Further Training awareness on Hazards around campus.

33181327	I do not believe that is an immediate threat
33181006	Keep up with Campus manholes, tunnels, buildings, trees, inspections.
33174620	Reduce energy consumption. Reduce waste where ever possible, continue recycling, reduce paper waste, encourage use of mass transportation.
33174538	Improve recycling, move to a culture of green energy and transportation, reduce waste, update buildings, communicate the university community about disasters and weather events, closures, etc
33174497	emissions reductions should be continued; increased transportation options
33163448	Investing in programs that support sustainable business and agriculture . . .
33163309	Review the use of reliance on fossil fuels, incorporate more energy saving features in buildings (even the older ones).
33163235	Upgrading storm drainage.
33163189	i do not know what the University is doing to eliminate climate change impacts on campus.
33163117	Keep landscaping and water conservation.
33163034	I saw battery powered shuttles being utilized around campus for larger groups. Bicycle Programs for students. Some green spaces on roof tops. Water bottles water fountains saving plastics from being used. Utilizing Robots in & around the hospital for delivery of products.
33162977	Planting trees and beautiful gardens.
33162953	Improve the erosion control practices around trees to minimize bare ground. Decrease impervious surfaces. Increase the use of nature based solutions and green infrastructure. Establish or maintain riparian buffers along streams on farms. Utilize two-stage ditch designs on agricultural areas.
33162892	Keeping high standards of energy efficiency.
33162859	Substantially increase the tree canopy on campus. Convert to 100% renewable energy.
33162837	Plant more trees. More vegetation on campus.

33162801	The recycling program is good. There should be more composting.
33162776	Continued development and implementation of the Sustainability Strategic Plan (I.e. decarbonization, efficiency, creative water reuse), although it seems the plan is shifting a little too far into the social justice realm lately.
33162754	Continue to have green spaces with more natural features that reduce runoff, etc.
33162717	I'm not really sure what steps they are taking.
33158139	Recycling, air/water quality monitoring, reusing surplus furniture and equipment, energy efficiency.
32670998	The scooters on campus, the busses
32669995	Dividing trash and recycling.
32669820	The study of Climate Change impacts must be done across all academic disciplines. Knowledge of climate change needs to be better communicated to the greater Kentucky community. This should be one of UK's biggest priorities just behind the major Health Care mission provided to the state.
32669613	N/A
32669509	Energy conservation. Continuing to seek methods to reduce the carbon footprint of the university.
32669383	Continue tree protection and planting more trees (increasing the overall tree canopy) to manage stormwater and reduce the urban heat island effect.
32645266	Preserve green spaces; increase LEED-certified new buildings; reduce # of on-campus students w cars; better plan for storm evac (relax the policies for Plan A/B staff too).
32643962	Plant more trees to reduce urban heat island impacts
32643835	Warning systems for evacuation.
32643704	Encouraging the use of public transport and bike usage
32643651	Annual BEAP updates. Storm water drainage upgrades.
32643603	Improving drainage to mitigate flooding
32587706	Plant more trees to improve air quality. Reinforce new buildings against tornados and ground shifts



**Q14. In your opinion, what are some additional steps the University could take to reduce the impact of climate change on campus?**

33198699	Be in tune to the earth and its reaction to what is going on in the natural environment and how Man made constructs may impact it.
33198528	Collaborate with the city of Lexington and all utility providers to UK, as well as University IT - to ensure all plans are in sync. Personally, I'd also love to see newer buildings incorporate solar technology.
33196582	change over to EV's
33195737	Having increased forested areas of strong native trees that can withstand an ice storm and provide cooler air temps in the summer. Having forested areas would also reduce wind damage, and provide an outlet for increased rain fall. Tall native grasses around water ways will help with clogged drains and reduce flooding/erosion.
33189329	Climate is going to change. Just knowing is half the battle.
33189232	none.
33189213	Increased research and reliance on solar and wind energy in a way that supports the parts of the state that will be impacted by the loss of coal jobs. Coal needs to go, as does natural gas, but politicians won't get behind such measures until they (or their constituents) know that they can have new jobs/careers in the clean industry marketplace.
33189175	Replace windows in my old building
33188973	Control non-recyclable waste and make recycling as easy as it is to currently throw away trash.
33188961	Contuse allowing staff to work remotely, it cuts down on electric costs
33188904	n/a
33188903	none

33188901	Always look for improvements (i.e. building structures or alert systems).
33188861	Take employee's safety into consideration when making decisions regarding safe working conditions related to climate change issues.
33188259	unknown
33188197	Encouraging expansion of mitigation efforts in the Bluegrass area Hardening buildings and considering severe weather survivability in new building construction.
33188184	lower their carbon footprint
33188162	We need to maintain or increase the amount of green space on and around campus.
33187949	Teach
33187942	Update old buildings with energy efficiency windows roofs, solar panel, solar batteries. Have campus vehicle become hybrids or electric.
33187923	Listen to those that know
33187902	I don't know if the University is currently doing this, but future buildings could be LEEDs certified.
33187889	vertical parking busses with fewer steps
33187884	Build new building with climate change in mind. This would include considerations of utilizing sustainable energy sources, reducing water usage, and reducing heating/cooling losses.
33187827	Updates to facilities- there are many older buildings on campus which are not equipped to withstand brutal temperatures or bad storm events. For example: The building I work in has numerous leaks, poor air quality, poor climate control, and numerous other issues. These will only get worse as climate change leads to more unstable weather patterns, unless the university commits to updating this and other buildings that desperately need it.
33187823	A huge percentage of staff/students/faculty commute to campus, and that is certainly not helping the climate change issue. Working with the city for more efficient bus routes/ a trolley would be ideal, but it seems unlikely to happen.

33187811	Promote more work from home. This would consume significantly fewer nonrenewable resources.
33187705	Anything would be an improvement, but response time and execution of requests through the university system needs a major overhaul.
33187603	Utilize solar energy where applicable.
33187587	???
33187549	unsure
33187543	Encourage people to ride the LexTran bus.
33187536	Increase the number of solar panels on campus
33184517	incorporate climate change into extension programming.
33181343	No steps need to be taken .
33181335	n/a
33181328	Continue to keep employees informed about upcoming forecast
33181327	I'm not sure.
33181006	Adapt to it: i.e; If a tree is dead or condemned then it should be chopped down instead of remain as a potential threat.
33174620	Energy audits of buildings, student groups for sustainability and climate action.
33174538	Improve HVAC and filtration of air, renovate White Hall and POT
33174497	we need more outdoor seating and shelters, particularly at bus stops; improved climate control and air circulation in buildings (especially older build); greywater systems to take advantage of increased rainfall
33163448	Invest more in programs that support sustainable business and agriculture . . .
33163309	Encourage more public transportation. Not allow freshmen cars on campus.

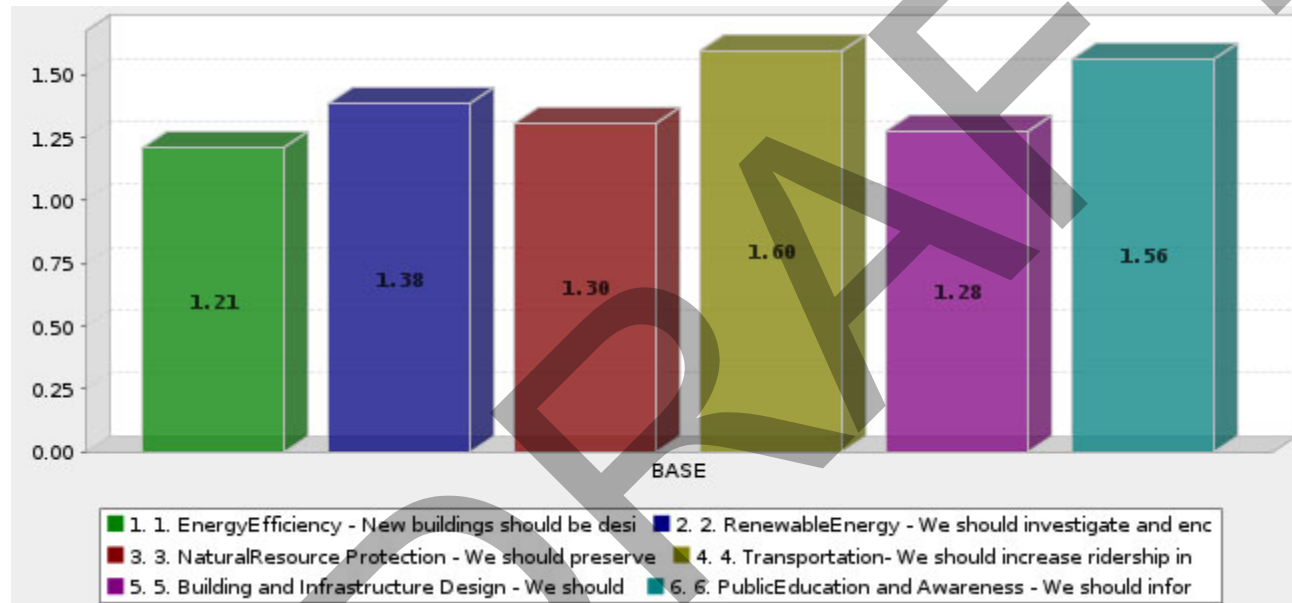
33163265	Have more storm shelters, campus wide sirens, better communication to remote, non-campus offices and employees
33163235	Better windows. Better protection for windows. The broken windows that occurred in Healthy Kentucky building is unacceptable. Better insulation for water lines to protect during ultra-low temperatures.
33163189	use renewable sources of energy, public education, stop burning coal, plant more trees,
33163117	More landscaping and less traffic impact near campus.
33163034	Utilizing more Solar and Wind turbine to generate Power for University. If not going to update actual structures then update materials i.e. blinds, flooring, insulation to mitigate temperature control. Irradigate the mold and mildew out of most the old hospital buildings and automatically improve the health and wellbeing of you employees and the climate as well. This also includes all the old dorms or any old buildings that continue to have formaldahyde and biohazardous materials that we know for a fact make people ill.
33162977	Letting people work from home to reduce commuting.
33162953	Improve the erosion control practices around trees to minimize bare ground. Decrease impervious surfaces. Increase the use of nature based solutions and green infrastructure. Establish or maintain riparian buffers along streams on farms. Utilize two-stage ditch designs on agricultural areas. Examine retrofitting detention basins to minimize the amount of time flows exceed erosion thresholds.
33162859	Design campus systems that are sustainable and resilient.
33162837	Instead of just parking lots, build multistory parking garages and put vegetation around them. Make the campus a "walking campus" by removing interior streets and putting in vegetation areas.
33162801	Stop using coal as a fuel source on campus!
33162776	Continued support for Cenergistic energy conservation program and investment into more sophisticated technologies (I.e. Combined Heat & Power CHP power/steam plant, automated plant controls and distribution instrumentation).
33162754	Reduce the frequency and duration of construction projects, because they create a real problem with things like runoff, air and noise pollution; discourage the grounds people from using multiple gasoline powered leaf blowers on a daily basis.

33162722	Eliminate the use of coal Plant trees and other plants to improve biodiversity and lessen the effects of extreme heat on campus
33158139	transportation improvements
32669995	Participate in more environmentally-friendly activities and offer more services.
32669820	More solar capacity should be built into new construction. Geothermal systems for HVAC should be incorporated when possible. these and other techniques should then be incorporated in academic instruction by involving faculty and staff along with students.
32669613	N/A
32669509	Planning for severe weather related emergencies. Frequency of rare events seems to be slowly increasing. It should be expected that now a once in generation type of event may happen more often now due to climate change. Planning for the future of these events instead of reacting after they occur.
32669383	Improve campus landscaped areas, including planting more trees and shrubs - increase the amount of greenspace and green infrastructure and improve how it is managed.
32645266	Mandate recycling by students; change materials in the cafeterias to biodegradable; select vendors who recycle & use recycled materials
32643962	Plant more trees, better insulation on/in buildings. Build our own carbon offset programs on university owned land where possible. Push the choice of recycled product purchasing. Purchasing is a huge part of impacting climate change. Do not purchase power from non-renewable sources. Allow more folks to work remotely there by reducing commute energy, parking on campus demands, and less need for additional real estate/building on campus.
32643835	Change how building temperature and humidity is managed (perhaps so that it is more building-specific); invest in better climate control and mitigation of water hazards in buildings.
32643704	"Green" designs for new constructions. Address alternate transportation modes. Increase recycling and look for ways to decrease water usage.
32643651	More vegetation. Less concrete.

32643603	Ensure all facilities (on and off campus) have a place for building occupants to go during severe weather (e.g., tornado shelter)
32641067	Ensure we are building structurally sound buildings.
32587706	Reduce carbon footprint, move utilities underground

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**Q15. A number of campus-wide activities can help reduce the impacts of climate change. In general, these activities fall into one of the following categories. Please tell us how important you think each one is for the University to pursue.**



Q15. Overall Matrix Scorecard : A number of campus-wide activities can help reduce the impacts of climate change. In general, these activities fall into one of the following categories. Please tell us how important you think each one is for the University to pursue.

Question	Count	Score
1. 1. <b>Energy Efficiency</b> - New buildings should be designed to a	116	1.207

	high standard of energy efficiency. Existing buildings should be upgraded so that they are more energy efficient.			
2.	<b>2. Renewable Energy</b> - We should investigate and encourage small-scale, renewable energy systems that reduce our dependency on fossil fuels.	115	1.383	
3.	<b>3. Natural Resource Protection</b> - We should preserve or restore the functions of natural systems. Examples include: tree canopy enhancements, protecting wetlands and natural areas.	115	1.304	
4.	<b>4. Transportation</b> - We should increase ridership in mass transit and ensure transit vehicles use renewable energy sources. We should also support more walking and biking infrastructure, as well as vehicle sharing.	114	1.596	
5.	<b>5. Building and Infrastructure Design</b> - We should design and build to better adjust to projected changes in the climate. Examples include green roofs, white or reflective roofs, on-site stormwater retention, and elevating or upgrading storm sewer lines.	116	1.276	
6.	<b>6. Public Education and Awareness</b> - We should inform citizens about climate change and the actions we can take to reduce its	116	1.560	



impact. Examples include outreach projects, school education programs, library materials, and demonstration events.			
	Average	<b>1.388</b>	

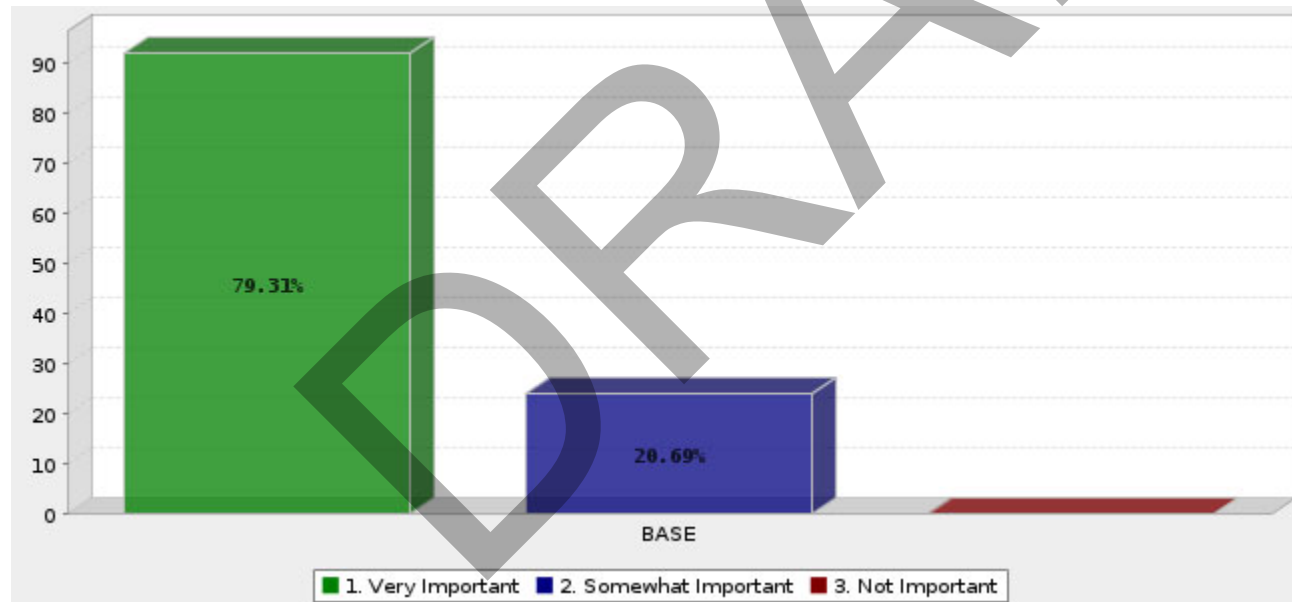
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## Q15. 1. Energy

**Efficiency - New buildings should be designed to a high standard of energy**

**efficiency. Existing buildings should be upgraded so that they are more energy**

**efficient.**



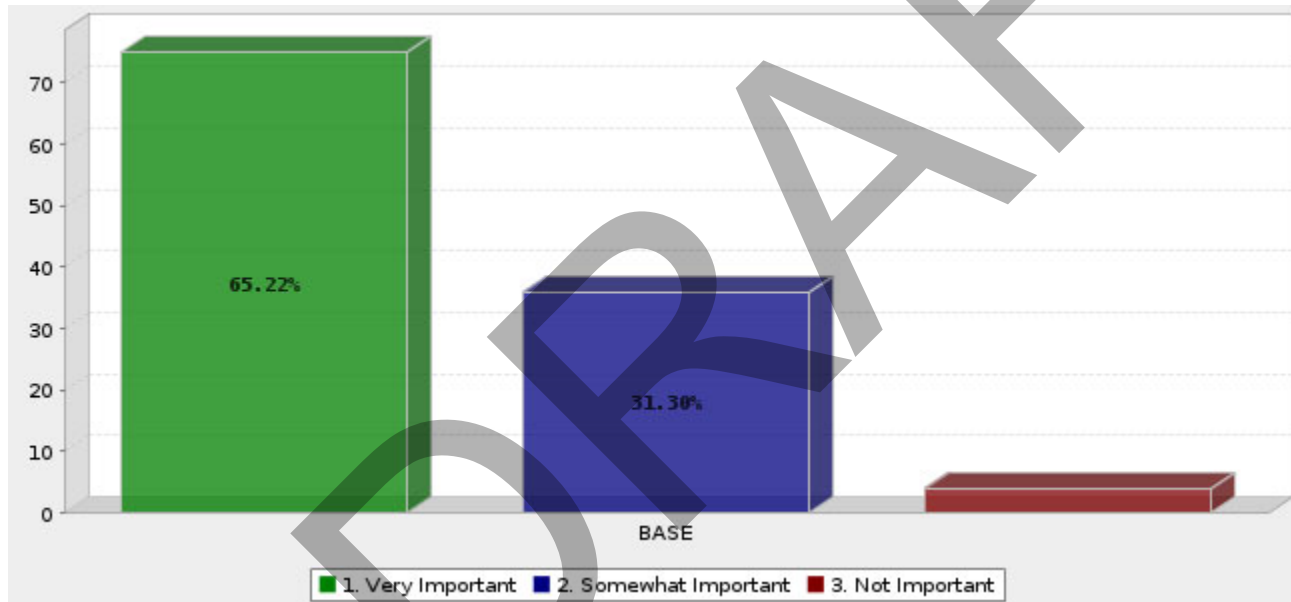
	<b>Answer</b>	<b>Count</b>	<b>Percent</b>
1.	Very Important	92	79.31%
2.	Somewhat Important	24	20.69%
3.	Not Important	0	0.00%
	Total	116	100%
<b>Mean : 1.207</b>		<b>Confidence Interval @ 95% : [1.133 - 1.281]</b>	<b>Standard Deviation : 0.407</b>
			<b>Standard Error : 0.038</b>

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## Q15. 2. Renewable

**Energy - We should investigate and encourage small-scale, renewable energy**

**systems that reduce our dependency on fossil fuels.**



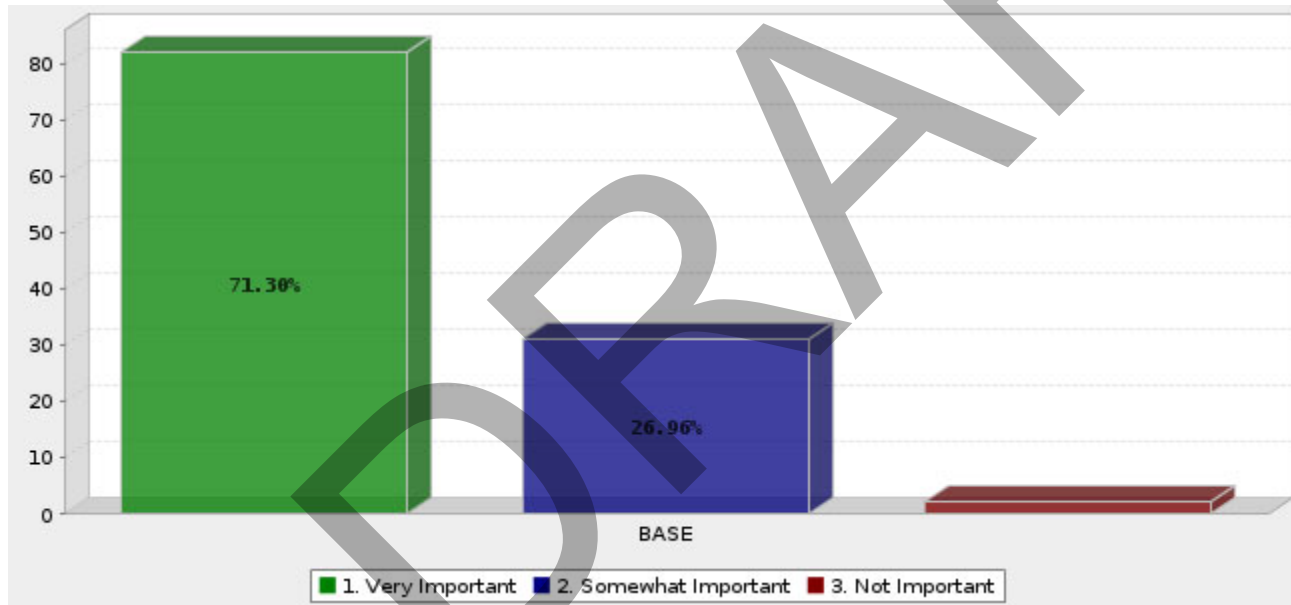
	Answer	Count	Percent
1.	Very Important	75	65.22%
2.	Somewhat Important	36	31.30%

3. Not Important	4	3.48%
Total	115	100%
<b>Mean : 1.383</b> Confidence Interval @ 95% : <b>[1.281 - 1.484]</b> Standard Deviation : <b>0.555</b> Standard Error : <b>0.052</b>		

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### Q15. 3. Natural

**Resource Protection - We should preserve or restore the functions of natural systems. Examples include: tree canopy enhancements, protecting wetlands and natural areas.**



	Answer	Count	Percent
1.	Very Important	82	71.30%
2.	Somewhat Important	31	26.96%

3. Not Important	2	1.74%
Total	115	100%
<b>Mean : 1.304</b> Confidence Interval @ 95% : <b>[1.213 - 1.395]</b> Standard Deviation : <b>0.499</b> Standard Error : <b>0.047</b>		

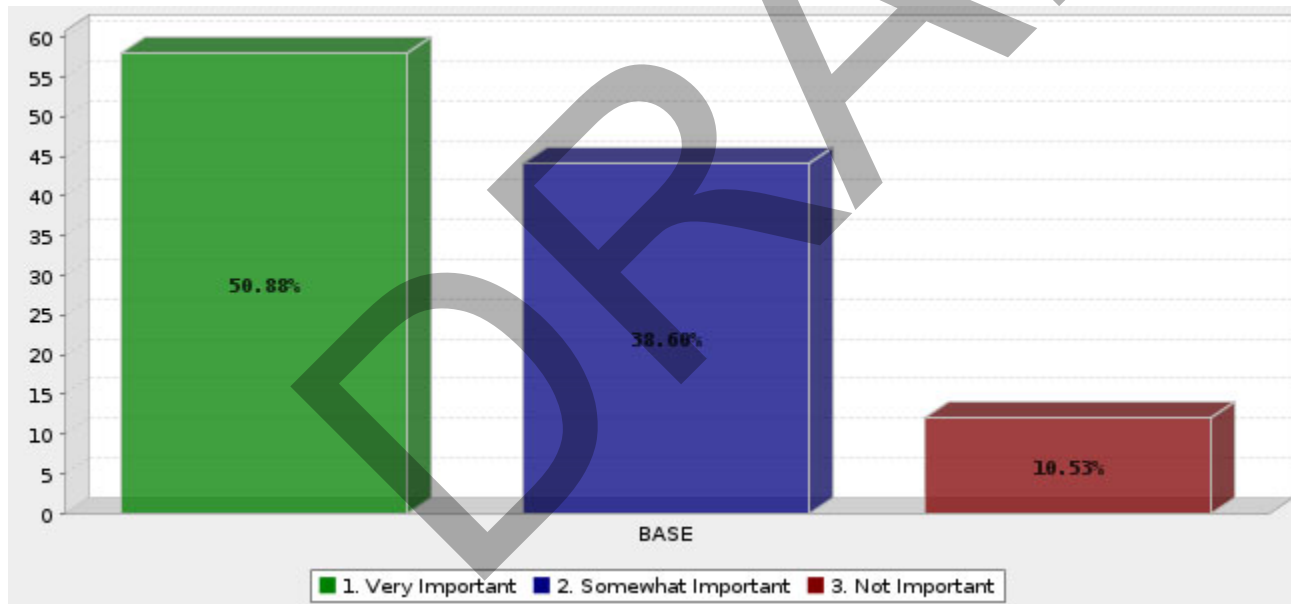
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## Q15. 4. Transportation

- We should increase ridership in mass transit and ensure transit vehicles use

renewable energy sources. We should also support more walking and biking

infrastructure, as well as vehicle sharing.

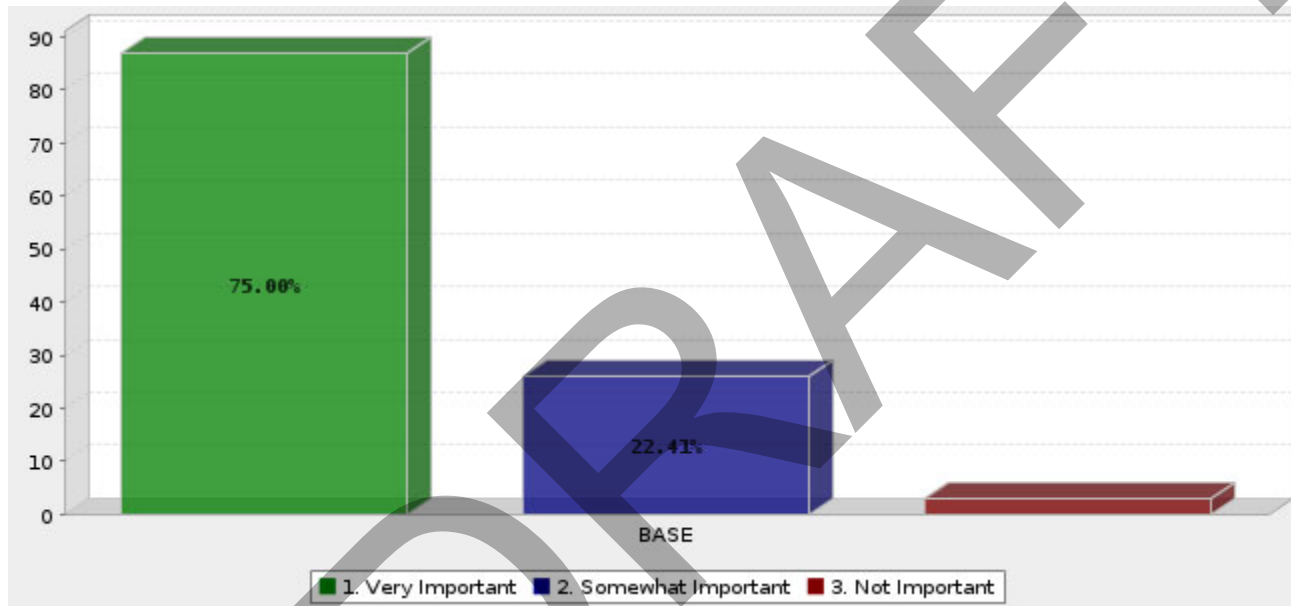




	<b>Answer</b>	<b>Count</b>	<b>Percent</b>
1.	Very Important	58	50.88%
2.	Somewhat Important	44	38.60%
3.	Not Important	12	10.53%
	Total	114	100%
Mean : <b>1.596</b>		Confidence Interval @ 95% : <b>[1.473 - 1.720]</b>	Standard Deviation : <b>0.675</b>
			Standard Error : <b>0.063</b>

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**Q15. 5. Building and Infrastructure Design - We should design and build to better adjust to projected changes in the climate. Examples include green roofs, white or reflective roofs, on-site stormwater retention, and elevating or upgrading storm sewer lines.**



	Answer	Count	Percent
1.	Very Important	87	75.00%
2.	Somewhat Important	26	22.41%
3.	Not Important	3	2.59%
	Total	116	100%

Mean : <b>1.276</b>	Confidence Interval @ 95% : <b>[1.184 - 1.368]</b>	Standard Deviation : <b>0.504</b>	Standard Error : <b>0.047</b>
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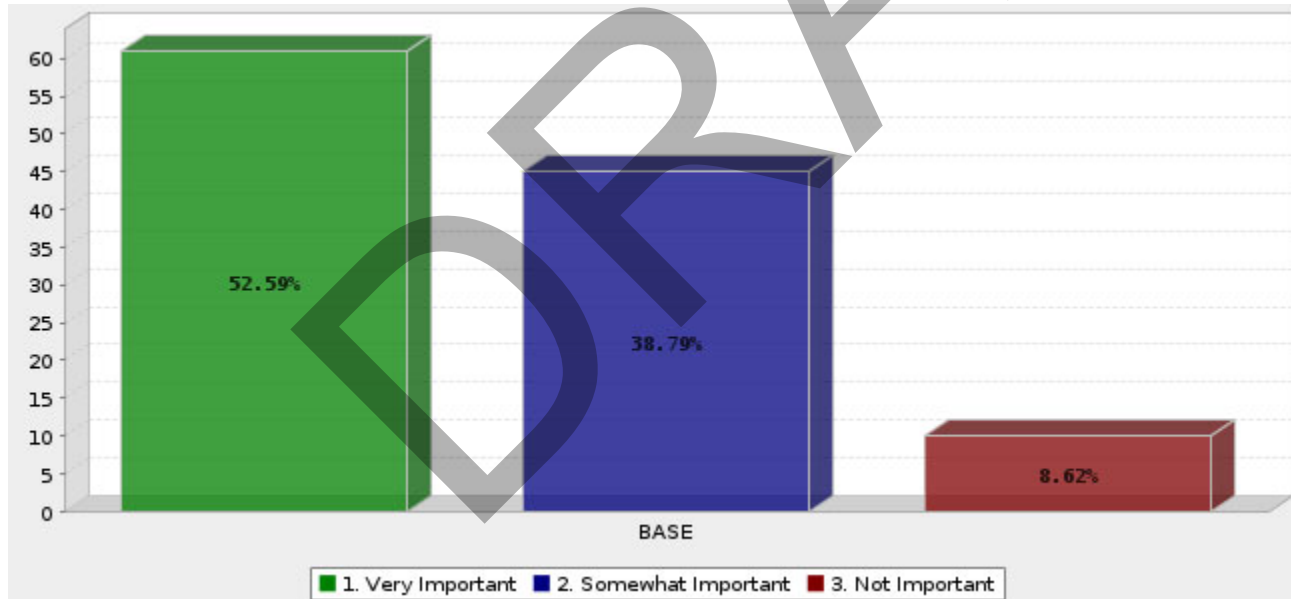
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## Q15. 6. Public

**Education and Awareness - We should inform citizens about climate change**

**and the actions we can take to reduce its impact. Examples include outreach projects,**

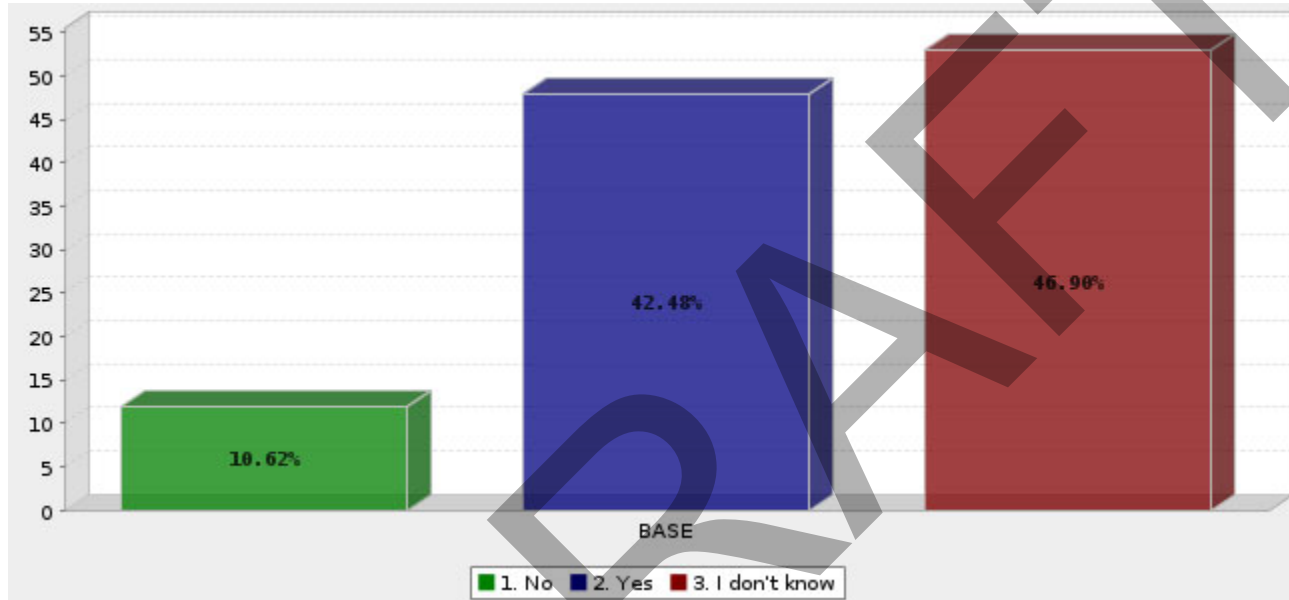
**school education programs, library materials, and demonstration events.**



	<b>Answer</b>	<b>Count</b>	<b>Percent</b>
1.	Very Important	61	52.59%
2.	Somewhat Important	45	38.79%
3.	Not Important	10	8.62%
	Total	116	100%
Mean : <b>1.560</b>		Confidence Interval @ 95% : <b>[1.442 - 1.679]</b>	Standard Deviation : <b>0.650</b>
			Standard Error : <b>0.060</b>

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**Q16. Are some parts of the campus particularly vulnerable to hazards, or is the entire campus equally vulnerable?**



	Answer	Count	Percent
	1. No	12	10.62%
	2. Yes	48	42.48%
	3. I don't know	53	46.90%
	Total	113	100%
Mean : <b>2.363</b>		Confidence Interval @ 95% : <b>[2.239 - 2.486]</b>	Standard Deviation : <b>0.669</b>
			Standard Error : <b>0.063</b>

**Q17. If “Yes,” what areas are most vulnerable, and what are their uses?**

33198839	handicapper enter Or exit
33198699	All
33198528	This isn't really a yes/no question :- ( But I agree that some parts of campus are more vulnerable to hazards than others.
33196582	those built directly on sink holes
33195737	Parking lots and roof tops, these areas have a large continuous surface area that exposes them to more temp changes that cause damage and they have no way to reduce flooding to the surrounding area.
33193076	Can't open windows. In-building air quality is not good.
33190795	Older facilities used to store/use hazardous materials
33190477	The hospitals.
33189329	Greenspaces with older trees need to be constantly monitored - which I am sure PPD folks are doing.
33189232	Areas that are prone to becoming hazards first, for instance, overpasses like by AG, or areas with high wind, water freezes faster. Storm grates and drains, etc.
33189213	Just a note that this question does not have an answer that corresponds. Is it "yes" to some parts or equal parts? Anyway, the medical center is vulnerable to cyber threats and infectious disease outbreaks, more so than some other areas of campus. This, of course, doesn't include any threats from climate change. Wonky question.
33188973	I think the tornado and flood in 2021-2022 made us all aware that disaster can strike any location, however the mass of people on main campus could prove to be particularly dangerous.
33188901	Older buildings would be more at risk.

33188162	residence halls---we saw it this winter with the pipes bursting in Haggin hall with the severe cold weather. More buildings could be impacted in the future.
33187934	The outlying properties are more vulnerable but the core campus is most important due to human capacity
33187884	The off-campus locations are particularly vulnerable, as those buildings are not built as sturdy. It often feels like these off-campus locations are "after thoughts" relative to on-campus facilities.
33187832	older buildings that were built in a previous climate status
33187811	The older buildings where there is no ventilation and I think there is still asbestos. I know there is radon because they installed a mitigation system years after I started working there. Air quality in the older buildings is unacceptable.
33187784	Depends on your work location.
33187766	For infectious disease- the hospital and ambulatory clinics as well as dormitories. For weather events the sidewalks on campus that are used but not cleared and are on an incline, as well as those that are shaded from natural sunlight.
33187705	Entire campus as well as off-campus locations that get forgotten.
33187587	Western Kentucky is the new "tornado alley"
33184517	Robinson center and forest, farms with livestock
33181372	lower areas vulnerable to flooding include the Upper St/Scott St areas. These areas are home to several utility plants that are critical to campus
33181328	Hospitals on Campus. Serve the state of Kentucky with all of their medical resources
33181006	Old trees, and old construction buildings.
33174620	Areas where fuel is stored or electricity generated (there is an electrical yard by the VA Hospital, and the coal power plant should be removed and replaced with renewable energy.
33174538	Labs and research facilities in neighboring counties



33174497	healthcare is particularly vulnerable, given the need for reliable and continuous power supplies -- that also applies to research labs on campus, though, especially those with refrigeration needs and those holding animals
33163448	The south side our main campus is most vulnerable . . . I think.
33163309	The healthcare facilities.
33163117	Healthcare and main campus
33163034	The whole campus is vulnerable however the sections of campus which remain untouched since origination remain the most vulnerable. Building codes change, moisture seeps in and creates "mold" and other very dangerous toxins that are not only bad for the population and environment but weaken the integrity of the structure. It is vital, if we want UK to sustain climate control then we must access and put our money into energy efficiency. Upgrading our renewable energy in the Healthcare and Academia arena will allow people to see us as not only cutting edge but responsible and feel a sense of pride to come to UK knowing they are coming to the best.
33162953	Floodplains are most vulnerable to increased flooding impacts. Older buildings may be more susceptible to extreme temperatures as recently evidenced.
33162859	All of them are vulnerable.
33162776	This question is worded incorrectly -- which part of the question do you answer? Most of campus is vulnerable to some hazards, but type and impact may vary from place to place (I.e. flood plain).
33158139	HealthCare campus, south main campus
32669820	The Answer is different for each hazard. For sinkhole collapse areas with enhanced concentration of water due to impermeable surfaces often become more vulnerable. To name a few (not limited just to these) the sinkholes from Woodland Glenn, WT Young Library, over to Robotics and the Gatton Business building.
32669613	N/A
32669383	The academic core of campus that houses the oldest infrastructure - buildings, utilities (storm sewer, sanitary sewer, etc) and also houses the least amount of greenspace.
32656361	research buildings, science labs (anything with hazard materials)

32645266	UKHC - bldgs around Kroger Field
32644967	that was not a yes or no question
32643962	Orange Parking Lot area
32643651	Research buildings and surrounding areas can be health hazards, especially during and after extreme environmental events when building systems, like the HVAC are affected.
32643603	Our remote campuses (i.e., research farms and facilities off main campus) are more vulnerable because they tend to have less resources to address emergencies and disasters
32641067	The medical center, residence halls, apartment housing, and classroom buildings.
32587706	all the newer buildings with so much glass

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**Q18. Are some buildings on campus more vulnerable to hazards than others? If “Yes,” please describe and include the uses of the vulnerable buildings, and who occupies them?**

33198699	Facilities Management, storage areas, buildings of research, medical related buildings. Any builds that would be considered important at such a time.
33198528	Patterson Office Tower, McVey Hall, and Parking Structure #2 house critical IT services.
33196582	those with a great deal of glass
33195737	Old or poorly designed buildings are more at risk for flooding and roof damage from changing temps.
33190477	The hospitals.
33189329	Older buildings need to be addressed as much as possible for their vulnerabilities (i.e. loose brick, asbestos, aging infrastructure)
33189232	Potentially. If a building doesn't have a basement there is no where truly safe to go during a tornado. Older buildings or newer buildings that may lack insulation could have freezing issues as we saw with this last artic cold spell and the amount of broken pipes.
33189213	I think that most of the issues with flooding on the main campus have been mitigated, but there used to be basements that were prone to flooding. I can't speak for extension offices or other off-campus areas
33189175	Older buildings are. They have not been maintained or upgraded.
33188973	Do not work on main campus.
33188961	Yes, the old structures that have asbestos in them and staff are working there.
33188904	n/a
33188903	no

33188901	Older buildings that have not been renovated in a few years would be more at risk.
33188871	Yes. Some buildings are extremely outdated and contain poor (or no) HVAC. For example, my office can be anywhere from 50-105 degrees in the winter depending on steam heat, and during the summer cannot be brought below 80 degrees due to a lack of cooling.
33188259	unk
33188197	Recent construction (Gatton Student Center and College, residence halls, the 90, etc.) are not as hardened as older campus buildings (Buell Armory, POT, etc). built in the last century.
33187949	No
33187942	Any unlocked door is an vulnerable spot
33187827	Yes! Older building on campus are, in general, poorly maintained and seldom upgraded. Windows that don't open, leaks, inefficient heating and cooling system, extremely poor air quality, all contribute to environmental concerns for employees, reduced productivity, as well as issues with the integrity of resources (furniture, tech) and physical records (paper subjected to unfavorable conditions is more likely to mold/mildew and degrade over time).
33187820	older buildings like Pence Hall, M.I. King
33187811	The older buildings where there is no ventilation and I think there is still asbestos. I know there is radon because they installed a mitigation system years after I started working there. Air quality in the older buildings is unacceptable. I don't know who occupies all of them, but please look into how safe the buildings are by age. I'm assigned to the quad, and I don't think anyone should be working inside my building 40 hours a week. Also, they don't have to comply with the ADA, so people with mobility issues and certain other disabilities are particularly harmed by having to be in these buildings.
33187784	Older buildings with HVAC issues or potential asbestos.
33187705	Not sure about this unless they are older buildings that are more susceptible to damage depending on age and deferred maintenance.
33187587	Many of the older buildings need to be upgraded.

33184517	yes, ones with refrigeration and electronics that require continuous power. Also, if all power goes out, pipes freeze and burst in winter weather events.
33181343	Peterson service building . Major gas main on side of building next to road with no bollards . If a vehicle had an accident or lost control the explosion would be devastating .
33181335	no
33181328	All Hospital & related buildings. Research buildings as well
33181327	Not sure.
33181006	Humidity, mold, creatures, etc might be living in basements, abandoned rooms, storage rooms, etc
33174620	Garrigus is likely immune to most climate disruptions.. but inside heating/cooling and air quality are a concern.
33174538	Old buildings with poor HVAC are hazardous to employees who work there
33174497	Young Library, POT, Whitehall, and others with frequently used basements
33163448	Obviously yes! Agriculture Science Center North . . . It's used for many research and administrative purposes . . .
33163318	Yes. The older buildings where staff members are forced to work are neglected, which leads to roofs that leak for more than a decade.
33163309	If a severe storm occurs the healthcare facilities and patients, healthcare teams could be the most vulnerable. Having a backup in case a building is damaged would help.
33163235	Research buildings.
33163117	Classroom buildings and any unsecured buildings
33163034	I believe I addressed this in the above question. However, I do understand a budget is a budget. In my opinion, Anywhere UK is housing the sick and the young and the future there is no distinction. It all comes down to determining what spaces are creating more healthcare problems just simply by being in that space and my belief is that there are many around UK. In the Hospitals, In these older Buildings and possibly in these older dorms. And from there bringing forth a plan.

33162859	All of them.
33162801	The WP Garrigus building - Animal and Food Sciences Department.
33162776	New private dorms are susceptible to fire as they are primarily wood structure. Sanitary or storm systems can flood if not properly maintained.
33162754	The older buildings are more vulnerable, but we need to be sure and conduct regular maintenance on all buildings in order to keep them operating properly and extend their life expectancy
33162702	presumably yes, especially older buildings, although I'm not overly familiar with the campus outside of my work location and college to some extent
33158139	UK HealthCare buildings
32669995	Yes, some buildings practice different disciplines that comes with their specific hazards.
32669820	Again limiting to just a few types of disasters, building with less substantial foundation are more susceptible to sinkhole damage. Newer building may be able to bridge over a collapse temporarily. Older building of true brick construction are more vulnerable to earthquake activity (more important in western Kentucky)
32669613	N/A
32669509	Hospitals. Reliant upon electricity, and loss of electricity can have a major impact even with supplemental electricity from generators.
32669383	Older buildings would potentially be more vulnerable than others. The academic core of campus represents the highest concentration of these buildings. Greg Page and Shawneetown are also more vulnerable due to their poor construction and/or age.
32661349	No
32645266	UKHC - patient care - hospital staff & faculty, patients and their families
32644967	if we're talking about karst, then the library is in danger.

32643835	Yes, those buildings that house labs with various hazards, those buildings that house cultural heritage materials, those buildings that were built earlier in the 20th century and have poor or inadequate environmental controls, insulation, electrical and plumbing systems, and/or windows.
32643743	Chemistry for the chemical storage Gluck is built on a sinkhole apparently as is the Library, unsure of other buildings
32643651	Research buildings. See previous.
32641067	The Greg Page apartment complex occupied by graduate students. Students in off-campus housing owned by slumlords. And tall buildings such as POT that could collapse onto smaller buildings.
32587706	yes, those sitting on sink holes

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**Q19. Are there any other issues regarding the reduction of risk and loss associated with hazards or disasters on the campus that you think are important?**

33198699	Being able to smoothly move all in the event something happens, no matter where or whom (capabilities) it may be.
33195737	Design of buildings or landscaping around existing buildings should be made with basement flooding and iced walk ways in mind. Scouting for potential sinkholes before foundations, parking lots, or walkways are built wouldn't hurt either.
33189329	It would be nice to update some of the sidewalks and related areas where pedestrian traffic is at. Maybe more lighting/flashing lights for crossings.
33189232	making sure basic maintenance is done. We were told no worries about Ice the other day and the first step i took outside of the rose street parking structure was frozen as well as the second step. If we say all areas are salted, make sure they are before people arrive.
33189213	During that last tornado warning, no one seemed to know where to go nor what to do. While no one relishes a drill, it might be a good idea to at least ask a question as part of a drill, such as: If a tornado was one minute away, where would you go for shelter right now?
33189175	no
33188973	Administration should not be hesitant to make decisions regarding cancellations and closings.
33188904	n/a
33188903	none
33188901	Insure that all staff and students are registered with UK Alerts to keep them informed of any type of disaster or hazard.



33188259	unk
33188197	The university needs to recognize that as a massive enterprise, in times of emergency students, faculty, staff, and their families may turn to it for shelter, food, or supplies in a disaster. Stockpiling of supplies and preparing contingency plans for this are important.
33187949	No
33187923	Education is key. Not cutting corners. Hhh
33187827	The biggest thing the University should focus on in regards to hazards and disasters on and around campus is the people involved. Any policies or plans should focus, first and foremost, on the safety and well-being of students, visitors, staff, and faculty.
33187811	Some of the walkways are dangerous during heavy rain. They flood. I have to wear duck boots to get to work. This is through central campus.
33184517	Incorporating climate change hazard and risk management into actual public facing messaging, as well
33181372	better security of our substations and the equipment housed in those substations.
33181335	no
33181328	N/A
33181327	Not sure.
33181006	Pedestrian traffic with electric scooters, skateboards, bicycles, and no rules or sights that keep it safe to prevent accidents.
33174538	Library and special collections and document based research could be more vulnerable to flooding
33163448	Functional power generators are very important . . .
33163309	I think it is important to have a plan on how other facilities on campus could be converted into usable healthcare space on short notice. We don't need to construct a 'tent city' if we can convert offices/hallways, etc, into usable space. Look first at those buildings that are immediately adjacent to the old and new hospital.

33163235	Not familiar enough with the Plan or current activities for reducing risk. As a pedestrian and a bicycle rider, I experience risk every day on campus. Intersections that need to be redesigned, like S. Limestone and Hospital Drive near UK ER, where the design forces drivers to straddle the crosswalk forcing pedestrians to precariously go around them. Nicholasville road is a hazard for pedestrians due to narrow sidewalks that are inches away from the street, with curbs incapable of preventing a car from swerving onto the sidewalk because the road is paved almost level with the curbs.
33163189	consider our visitors, particularly those who visit our medical campus. How can we ensure continuity of care when either they or us are faced with a disaster that disrupts care?
33163117	Hire more campus police officers and have them be visible
33163034	i believe I am one question ahead.
33162859	I would have a risk assessment completed by outside experts.
33162776	Deeper penetration of training into the units. We know the police department/EOC has plans, but how deep into the organization is this information shared?
33162702	I've seen significantly more accidents in the orange lot near Kroger field lately as it is hard to see around parked vehicles when stopped at stop signs and people pull out in front of others and there aren't sidewalks or walking space other than down the main road through the lot so I've seen more than a few people and scooters almost get hit by vehicles
32669995	Unsure
32669820	Risk reduction is always important. examining the connections of risks has been understudied. the link between storm water retention and induced sinkhole collapse needs to be more thoroughly considered in the planning phase.
32669613	It would be a lot less dangerous for the students if there were overhead walkways over the busiest streets.
32669383	Flooding/inundation of infrastructure with increase in rainfall amounts being handled by old/aging stormwater infrastructure. Sanitary sewer issues resulting from aging infrastructure/poorly maintained lines.
32661349	No

32643835	The university is weak in records and information management. A strong program of managing physical and electronic records can help reduce risk and loss associated with hazards or disasters.
32641067	The fiscal challenge. There are lots of old and tired buildings on campus that need work.
32587706	above ground utilities. buildings that have a lot of glass

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**Q20. Are there any other issues regarding the reduction of climate change impacts on the campus that you think are important?**

33198699	Anything that would impact the safety of the people that work for UK, anywhere.
33195737	Student involvement via project groups would be beneficial to those in and outside of architecture, landscaping, and environmental degrees.
33189329	no
33189232	no
33189175	no
33188904	n/a
33188903	no
33188259	unk
33187949	No
33187923	Education. There is not much for those that inhabit spaces, construction workers and why Good construction important, Do not just make do, just because.
33187902	I'd love to see composting sites scattered around campus and in the dorms. There is a ton of food waste (and just things like fruit peels and such) that goes into the garbage cans around campus. Of course, people don't do a great job with using the recycling bins properly, but maybe with a lot of education composting could work.
33187811	My building doesn't have true air conditioning. The chiller system cools the air a little, but on very hot days it can be difficult. This will get worse.
33184517	Clear messaging that it is a major threat and consider more ways to offset impacts of development on campus.

33181343	No . The climate change agenda( formally global warming )is a joke .
33181335	no
33181328	N/A
33181327	Not sure
33181006	Energy dependence!
33174620	I would love to see UK become a Net Zero carbon consumer and reduce/ redirect energy consumption to renewable.
33174538	Need more robust move to alternative/green energy systems to light and power the campus
33163448	There aren't any that I can think of!
33163309	Open and honest conversations, forums, to discuss the science of climate change in order to remove the political sway/narrative.
33163235	Too many cheaply built buildings built too close together. How are they expected to hold up against environmental hazards when they are having so many problems under normal conditions.
33163189	time is of the essence! what small changes can we make NOW that will have a positive impact? Start with what is do-able now and build upon that.
33163117	Plant more trees and landscaping.
33163034	It's vital to start planting trees, seedlings, small gardening spaces possibly for students or small families that live on campus. Planning and creating agriculture environments which create and bring forth the climate we are all are generationally fighting against speaks volumes not only to UK, Kentucky, America but to the World that we are a community taking action. We are a Proactive University that is thriving.
33162859	We should do whatever we can to focus on the activities and systems that will have the greatest impact on reducing climate change. Prevention, mitigation and resiliency.

33162776	How can we as a Flagship University assist with those in the state that are suffering more from the impacts of climate change? I.e. Appalachia regions; flooding, water system deficiencies. They see far more problems there than we do in the 800 acres in central Lexington.
32669995	Unsure
32669820	Solar panels should be installed on all parking garages and charging stations made available to charge EV's. The excess power generated can be directed to the campus needs. this would serve as an encouragement for people to make a change in habits, be and educational opportunity, and be the start of an infrastructure change on campus.
32669613	Having a healthy recycling program and consciously looking for ways to reduce waste.
32669509	Seeking to reduce carbon footprint of university activities.
32661349	No
32658288	We don't know whether the future may hold more or less rainfall, flooding, snow/icing, drought, etc., whether because of (anthropogenic) climate change or otherwise. Good planning and designs makes allowance for all of these possibilities.
32645266	LEED - certified would be huge step in right direction. Solar panels & ways to bolster the power grid & cybersecurity would be reassuring
32643962	We should be able to have an assessment done int he area that I work/supervise to give us practical ideas on how we can reduce our human footprint that are actionable. I can get someone to assess how our computer workstations/desk are ergonomically correct but I don't know how to better contribute on a more sustainable campus in actionable ways within our system. If I wanted to run the greenest office on campus, what does that look like and how can I get my team to be recognized for good actions to make our community more climate friendly which also ties in in many ways to our university strategic plan?

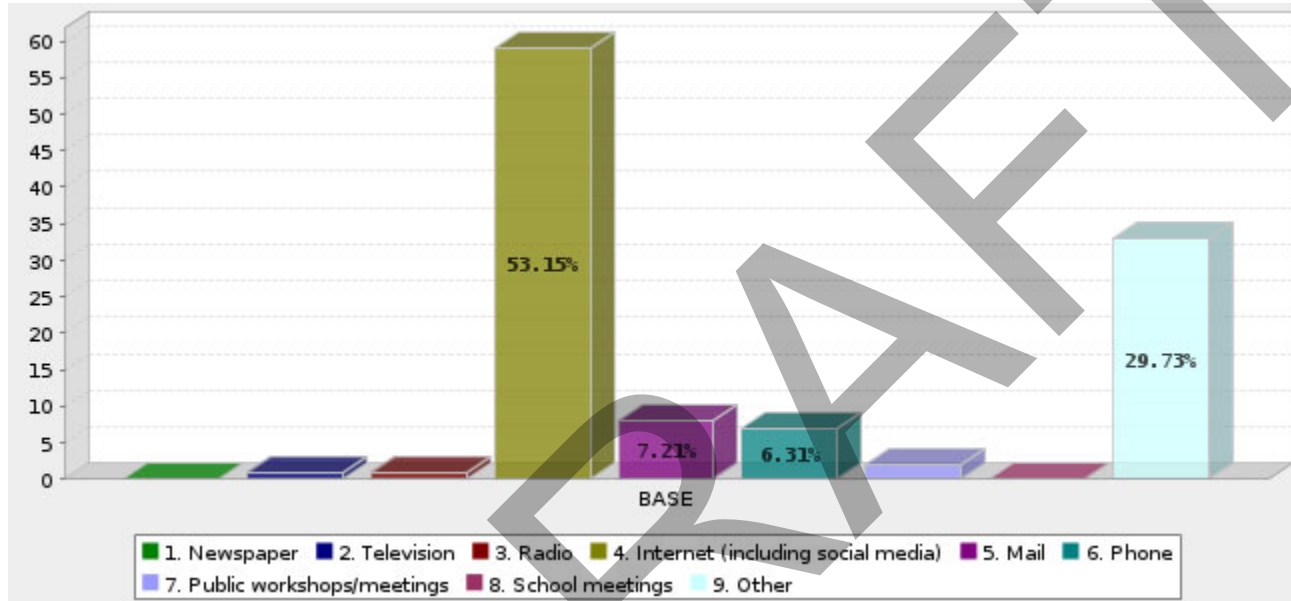
**Q21. Are you aware of any UK facilities not on a campus that are vulnerable to hazards or climate change? If yes, please describe.**

33198699	Those that may be on or near fault zones. Sink holes, and the like. Sudden movements may be a problem.
33189329	no
33189232	no
33189175	no
33188904	n/a
33188903	no
33188259	unk
33187949	No
33187923	Yes. Anything could be at any time for any reason.
33187884	Currently, the temporary structures at the UK-REC at Princeton, KY are particularly vulnerable to hazards. These are temporary buildings with no shelter to go to in the event of severe weather. This is potentially a very dangerous situation. In the event of severe weather (i.e. tornadoes) during work hours, approximately 70 UK employees all housed in temporary trailers would be extremely vulnerable.
33187705	All off-campus sites are particularly vulnerable as we do not have the infrastructure that Lexington has.
33187543	Buildings at the Coldstream campus.
33184517	yes, robinson center and forest, extension offices, uk farms
33181335	no
33181328	N/A

33181327	Not sure.
33174497	all the ag and extension facilities (e.g., the facility destroyed during the 2021 tornadoes)
33163448	I don't think so!
33163309	Yes, we lost a new facility to extreme weather events in December of 2021. Minor changes in temperature can affect extension offices, forests, streams, etc., where students learn on-site.
33163265	All Extension Offices
33163117	I'm sure all outer properties are vulnerable.
33163034	Hazard KY, This area is wrought with vulnerabilites due to its population, topographical issues and where it sits meterologically.
33162837	All the extension offices. They should all have storm/tornado cellars.
33158139	UK Research & Education Center - Princeton, KY UK Robinson Forest & RCARS - Eastern KY
32669995	No
32669613	No
32661349	No
32641067	The extension offices in all 120 counties and the farms spread across the state.
32587706	our outlier facilities in places like eastern and western kentucky, along with those in the forest areas prone to fires



**Q22. What is the most effective way for you to receive information about initiatives to make the University more resistant to hazards?**

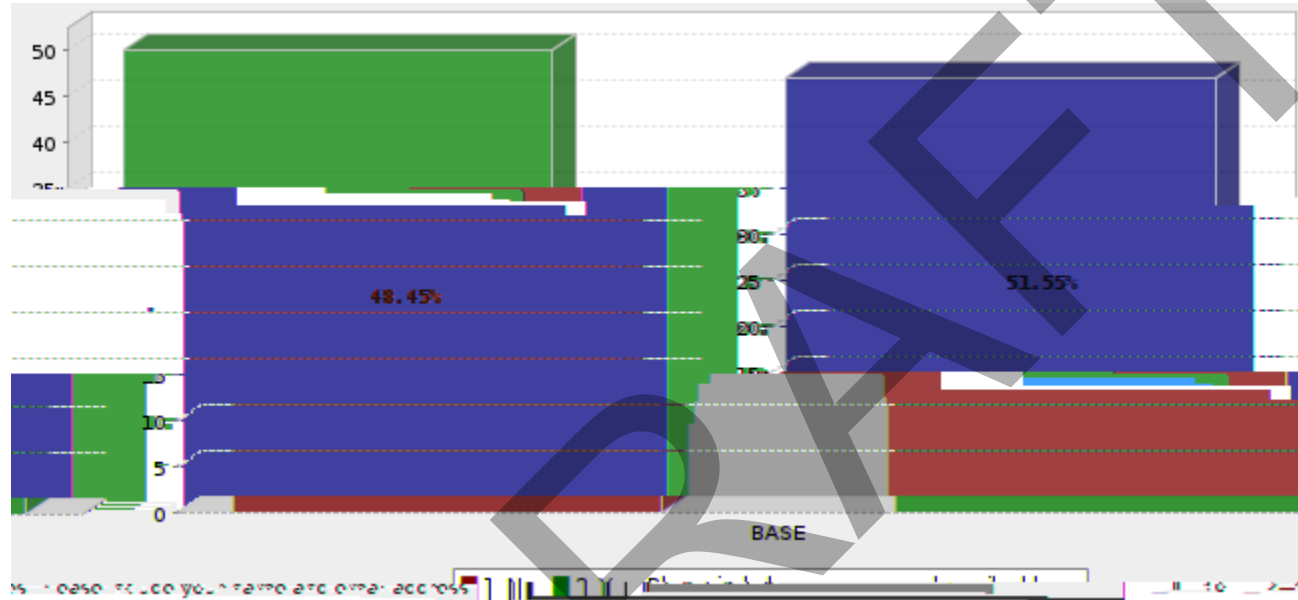


	Answer	Count	Percent
1.	Newspaper	0	0.00%
2.	Television	1	0.90%
3.	Radio	1	0.90%
4.	Internet (including social media)	59	53.15%
5.	Mail	8	7.21%
6.	Phone	7	6.31%

7.	Public workshops/meetings	2	1.80%
8.	School meetings	0	0.00%
9.	Other	33	29.73%
	Total	111	100%
Mean : <b>5.712</b>		Confidence Interval @ 95% : <b>[5.292 - 6.131]</b>	Standard Deviation : <b>2.254</b>
			Standard Error : <b>0.214</b>

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### Q23. Are you interested in helping the University reduce the impact of hazards and climate change?



	Answer	Count	Percent
1.	No	50	51.55%
2.	Yes. Please include your name and email address	47	48.45%
	Total	97	100%
Mean : 1.485		Confidence Interval @ 95% : [1.385 - 1.585]	
		Standard Deviation : 0.502	
		Standard Error : 0.051	

University of Kentucky  
2023 Hazard Mitigation Plan  
Acceptance and Adoption

The Disaster Mitigation Act of 2000 (DMA 2000) requires local communities to develop and implement mitigation plans to identify and prioritize natural and man-made hazards and develop strategies to reduce the impact of hazards when they occur. Complying with DMA 2000 also allows local communities to be eligible for federal mitigation planning grants.

The University completed its Hazard Mitigation Plan update and will continue to work toward the completion of future mitigation projects across the University. An approved plan will maintain the eligibility of the University for state and federal mitigation grants.

Upon the recommendation of the University Mitigation Steering Committee, UK Police Department, and FEMA's preliminary approval, I accept this Hazard Mitigation plan and its content on behalf of the University of Kentucky.

Furthermore, it is my intent that this plan will become the functional guidance for the University in its effort to mitigate the effects of that accompany the natural and man made events identified in the plan. The University will continue to maintain and update this plan in accordance with FEMA requirements.

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Printed Name

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Title

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Signature

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Date

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