

Well Being 329

introduction

In this survey, we will ask you to express how concerned you are about several types of disasters that could affect the United States. For each disaster, we will summarize what scientists know about the hazard. Please review this information before giving your opinion of how concerned you are about the disaster. Please just click "Next" to start the survey.

LOOP FROM 1 TO 10 DO

| IF Indicates which disasters R got = Anthrax THEN

|| [The following questions are displayed as a table]

|| **Anthrax1** Anthrax 1

|| ANTHRAX RELEASE Anthrax is a disease that kills a large portion of the people who are infected.

|| While it doesn't typically spread from person to person, it could be intentionally spread as a weapon. An attack could cause anywhere from hundreds to tens of thousands of deaths. While terrorists have wanted to use anthrax in attacks, it has never been used in a large-scale attack. Estimates of an actual event in the next decade range widely, from very unlikely to near certainty. The U.S. prepares to respond to an attack. This includes a system to detect if an anthrax attack occurs, and plans that hospitals and police can implement should an attack occur.

|| **an001** Anthrax concern

|| How concerned are you about an Anthrax release?

- || 1 Very concerned
- || 2 Moderately concerned
- || 3 Somewhat concerned
- || 4 Slightly concerned
- || 5 Not at all concerned

|| [End of table display]

|| **an002** ever suffered from anthrax release

|| Have you ever suffered either physically, emotionally, or financially from the effects of an Anthrax release?

- || 1 Yes
- || 2 No

|| IF ever suffered from anthrax release = Yes THEN

|| **an003** how affected from anthrax release

|| How were you affected from the effects of an Anthrax release? Please check all that apply.

- || 1 Directly
- || 2 Through the experiences of a friend, acquaintance, or relative,
- || 3 By learning of the event through the news or media

|| ENDIF

| ELSEIF Indicates which disasters R got = Cyber THEN

|| [The following questions are displayed as a table]

|| **cyber1** Cyber 1

|| CYBER ATTACKS ON INFRASTRUCTURE Cyber attacks are large-scale disruptions of computer systems. Disrupting computers that control infrastructure (such as banks or electrical power) can have significant effects. An attack could cause a power outage, scramble financial transactions, or disrupt the government. These issues all result in economic damage. Deaths or

injuries are unlikely to result. Private companies and the government protect their computers in similar ways, using things like antivirus software and passwords. Attacks are always adapting so these defenses need to be kept up to date.

cy001 Cyber 1

How concerned are you about a cyber attack on infrastructure?

- 1 Very concerned
- 2 Moderately concerned
- 3 Somewhat concerned
- 4 Slightly concerned
- 5 Not at all concerned

[End of table display]

cy002 ever suffered from cyber attack

Have you ever suffered either physically, emotionally, or financially from the effects of a cyber attack on infrastructure?

- 1 Yes
- 2 No

IF ever suffered from cyber attack = Yes THEN

cy003 effects from cyber attack on infrastructure

How were you affected from the effects of a cyber attack on infrastructure? Please check all that apply.

- 1 Directly
- 2 Through the experiences of a friend, acquaintance, or relative,
- 3 By learning of the event through the news or media

ENDIF

ELSEIF Indicates which disasters R got = Earthquake THEN

[The following questions are displayed as a table]

Earthquake1 Earthquake 1

EARTHQUAKE Earthquakes are a major shaking of the ground that can last from seconds to minutes. Severe earthquakes can create widespread damage across an entire metropolitan area. This can collapse buildings and disrupt utilities like water and power. Collapsing buildings can also cause injury and death. The west coast of the United States is particularly vulnerable to major earthquakes. While earthquakes outside of the west coast are less frequent and often less severe, faults near Charleston, SC and near the Mississippi River are also at higher risk. Mitigation efforts over many decades have made buildings and highways stronger and less prone to collapse. This has significantly decreased the risk of death or injury due to a major earthquake in the U.S.

ea001 earthquake concern

How concerned are you about an earthquake?

- 1 Very concerned
- 2 Moderately concerned
- 3 Somewhat concerned
- 4 Slightly concerned
- 5 Not at all concerned

[End of table display]

ea002 ever suffered from earthquake

Have you ever suffered either physically, emotionally, or financially from the effects of an earthquake?

- 1 Yes

|| 2 No

|| IF ever suffered from earthquake = Yes THEN

|| **ea003** effects from earthquake

|| How were you affected from the effects of an earthquake? Please check all that apply.

|| 1 Directly

|| 2 Through the experiences of a friend, acquaintance, or relative,

|| 3 By learning of the event through the news or media

|| ENDIF

|| ELSEIF Indicates which disasters R got = Explosives THEN

|| [The following questions are displayed as a table]

|| **Explosives1** Explosives concern

|| **TERRORIST EXPLOSIVE BOMBINGS** Explosives are a commonly used weapon in terrorist attacks. They can cause very concentrated damage over an area up to several blocks. The bombings we are describing here refer to events when a terrorist places a bomb (or many bombs) with the intent to injure or kill dozens, hundreds, or thousands of people. In addition to hurting people, bombings can destroy buildings, vehicles, or infrastructure (such as bridges). This can cause hundreds of millions of dollars of damage.

|| **ex001** Explosives concern

|| How concerned are you about a terrorist explosive bombing?

|| 1 Very concerned

|| 2 Moderately concerned

|| 3 Somewhat concerned

|| 4 Slightly concerned

|| 5 Not at all concerned

|| [End of table display]

|| **ex002** ever suffered from terrorist explosive bombings

|| Have you ever suffered either physically, emotionally, or financially from the effects of a terrorist explosive bombing?

|| 1 Yes

|| 2 No

|| IF ever suffered from terrorist explosive bombings = Yes THEN

|| **ex003** ever suffered from terrorist explosive bombings

|| How were you affected from the effects of a terrorist explosive bombing? Please check all that apply.

|| 1 Directly

|| 2 Through the experiences of a friend, acquaintance, or relative,

|| 3 By learning of the event through the news or media

|| ENDIF

|| ELSEIF Indicates which disasters R got = Flu THEN

|| [The following questions are displayed as a table]

|| **flu1** Flu 1

|| **PANDEMIC INFLUENZA** Influenza (flu) pandemics occur when a new flu strain emerges that is unfamiliar to human immune systems. This can make the flu more infectious and possibly more

severe. Around 30 percent of people could be infected, which equals roughly 100 million individuals in the United States alone. For people who show symptoms, effects range from milder flu symptoms (from cough, aches, and fever to vomiting and diarrhea) to more serious complications and even death. The large numbers of sick people can shut down businesses, government, schools, and health care systems. Public health now focuses on stopping the spread of the infection early.

flu001 Flu concern

How concerned are you about a pandemic influenza?

- 1 Very concerned
- 2 Moderately concerned
- 3 Somewhat concerned
- 4 Slightly concerned
- 5 Not at all concerned

[End of table display]

flu002 ever suffered from pandemic influenza

Have you ever suffered either physically, emotionally, or financially from the effects of a pandemic influenza?

- 1 Yes
- 2 No

IF ever suffered from pandemic influenza = Yes THEN

flu003 effects from pandemic influenza

How were you affected from the effects of a pandemic influenza? Please check all that apply.

- 1 Directly
- 2 Through the experiences of a friend, acquaintance, or relative,
- 3 By learning of the event through the news or media

ENDIF

ELSEIF Indicates which disasters R got = Hurricanes THEN

[The following questions are displayed as a table]

hurricane1 Hurricane 1

HURRICANES Hurricanes are large storms that form over large, warm bodies of water like the Western Atlantic or Gulf of Mexico. When hurricanes reach land, they bring high winds, tornadoes, and flooding. Hurricanes regularly strike the southeastern U.S. Hurricanes typically cause few deaths but major economic damage. While we cannot stop hurricanes, we can reduce some of the damage. In some areas, buildings are required to be made stronger to stand up to hurricane damage. In other areas where flooding is common, buildings may not be allowed at all. In the short term, we can see when a hurricane is coming days in advance, so people can prepare their homes and businesses and then evacuate.

hu001 Hurricane concern

How concerned are you about a hurricane?

- 1 Very concerned
- 2 Moderately concerned
- 3 Somewhat concerned
- 4 Slightly concerned
- 5 Not at all concerned

[End of table display]

hu002 ever suffered from hurricane

|| Have you ever suffered either physically, emotionally, or financially from the effects of a hurricane?

|| 1 Yes

|| 2 No

|| IF ever suffered from hurricane = Yes THEN

|| **hu003** effects from hurricane

|| How were you affected from the effects of a hurricane? Please check all that apply.

|| 1 Directly

|| 2 Through the experiences of a friend, acquaintance, or relative,

|| 3 By learning of the event through the news or media

|| ENDIF

|| ELSEIF Indicates which disasters R got = Nuke THEN

|| [The following questions are displayed as a table]

|| **nuke1** Nuke 1

|| **TERRORIST NUCLEAR DETONATION** Nuclear bombs are explosives that also create heat, radiation and long-term radioactive fallout. Nuclear explosives are equal to thousands to up to millions of tons of conventional explosives. A nuclear explosion in a city could kill hundreds of thousands of people and injure hundreds of thousands more. Additionally, the direct physical damage and business interruption could cost trillions of dollars. In the longer term, areas of up to thousands of square miles could be contaminated with radioactive fallout for years.

|| However, the biggest effect a nuclear bomb may have is how society and the world economy respond to it, which is hard to predict. Some experts say that a nuclear bomb will almost certainly be used somewhere in the world in the next ten years while others say there is almost no chance.

|| **nu001** Nuke concern

|| How concerned are you about a terrorist nuclear detonation?

|| 1 Very concerned

|| 2 Moderately concerned

|| 3 Somewhat concerned

|| 4 Slightly concerned

|| 5 Not at all concerned

|| [End of table display]

|| **nu002** ever suffered from terrorist nuclear detonation

|| Have you ever suffered either physically, emotionally, or financially from the effects of a terrorist nuclear detonation?

|| 1 Yes

|| 2 No

|| IF ever suffered from terrorist nuclear detonation = Yes THEN

|| **nu003** effects from terrorist nuclear detonation

|| How were you affected from the effects of a terrorist nuclear detonation? Please check all that apply.

|| 1 Directly

|| 2 Through the experiences of a friend, acquaintance, or relative,

|| 3 By learning of the event through the news or media

|| ENDIF

|| ELSEIF Indicates which disasters R got = Oil Spills THEN

|| [The following questions are displayed as a table]

|| **OilSpills1** Oil spills concern

|| OIL SPILLS Oil spills occur when an oil well, tanker, or pipeline fails, spilling large
|| amounts of oil onto land or into water. This does not cause many deaths, but can hurt the
|| environment. The environmental damage from large spills can hurt businesses such as fishing and
|| the tourism industry. The amount of damage depends on how much oil is spilled and where the
|| spill occurs. Spills can range in size from a few barrels to the contents of entire ships or more.

|| **oi001** Oil spills concern

|| How concerned are you about an oil spill?

- || 1 Very concerned
- || 2 Moderately concerned
- || 3 Somewhat concerned
- || 4 Slightly concerned
- || 5 Not at all concerned

|| [End of table display]

|| **oi002** ever suffered from oil spill

|| Have you ever suffered either physically, emotionally, or financially from the effects of an oil spill?

- || 1 Yes
- || 2 No

|| IF ever suffered from oil spill = Yes THEN

|| **oi003** effects from oil spill

|| How were you affected from the effects of an oil spill? Please check all that apply.

- || 1 Directly
- || 2 Through the experiences of a friend, acquaintance, or relative,
- || 3 By learning of the event through the news or media

|| ENDIF

|| ELSEIF Indicates which disasters R got = TIC THEN

|| [The following questions are displayed as a table]

|| **TIC1** TIC 1

|| TOXIC INDUSTRIAL CHEMICAL ACCIDENTS Chemical spills are usually small events where the
|| effects are contained in the workplace. However, there is also the potential for catastrophic
|| accidents that harm the public. These occur when a large number of people are exposed to a
|| chemical that can kill even at low levels of exposure. The number of people who could be exposed
|| in an event like a train crash or a factory explosion could be as high as hundreds of thousands.
|| This could result in hundreds to tens of thousands of deaths. Additionally, some chemicals can
|| remain in water and on land for years. This contamination could lead to billions of dollars of
|| costs as the areas are either cleaned or quarantined. It is hard to know how likely a
|| catastrophic toxic industrial chemical accident is.

|| **ti001** TIC concern

|| How concerned are you about a toxic industrial chemical accident?

- || 1 Very concerned
- || 2 Moderately concerned
- || 3 Somewhat concerned
- || 4 Slightly concerned
- || 5 Not at all concerned

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|| [End of table display]
|| ti002 ever suffered from toxic industrial chemical accident
|| Have you ever suffered either physically, emotionally, or financially from the effects of a
|| toxic industrial chemical accident?
|| 1 Yes
|| 2 No
||
|| IF ever suffered from toxic industrial chemical accident = Yes THEN
||
|| ti003 effects from toxic industrial chemical accident
|| How were you affected from the effects of a toxic industrial chemical accident? Please check all that apply.
|| 1 Directly
|| 2 Through the experiences of a friend, acquaintance, or relative,
|| 3 By learning of the event through the news or media
||
|| ENDIF
||
|| ELSEIF Indicates which disasters R got = Tornadoes THEN
||
|| [The following questions are displayed as a table]
||
|| tornadoes1 Tornadoes 1
|| TORNADOES Tornadoes are deadly windstorms that can damage an area from a few blocks to entire
|| counties. While tornadoes can occur anywhere, certain areas are at higher risk than others.
|| Tornadoes occur more often in the Great Plains, known as "Tornado Alley." Tornadoes cannot be
|| stopped, but things can be done to reduce their damage. The government provides advance warnings
|| of tornadoes, allowing people to take shelter and reduce their risk of injury. The government
|| also informs the public about the best ways to take shelter. Good building codes can help manage
|| this. State and local emergency agencies, supported by FEMA response and recovery functions,
|| lead the response activities for most tornadoes
||
|| to001 Tornadoes concern
|| How concerned are you about a tornado?
|| 1 Very concerned
|| 2 Moderately concerned
|| 3 Somewhat concerned
|| 4 Slightly concerned
|| 5 Not at all concerned
||
|| [End of table display]
|| to002 ever suffered from tornadoe
|| Have you ever suffered either physically, emotionally, or financially from the effects of a tornado?
|| 1 Yes
|| 2 No
||
|| IF ever suffered from tornadoe = Yes THEN
||
|| to003 effects from tornadoe
|| How were you affected from the effects of a tornado? Please check all that apply.
|| 1 Directly
|| 2 Through the experiences of a friend, acquaintance, or relative,
|| 3 By learning of the event through the news or media
||
|| ENDIF
||
|| ENDIF

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|
ENDDO

RAintro2

Now we would like you to compare each of the risks you just reviewed to each other. Please rank the risks on the next page in the order of how concerned you are about their effects on the nation. Please rank them from most concerning (1) to least concerning (10). When deciding on your ranking, think about the information about the risks that you just reviewed.

[The following questions are displayed as a table]

RAintro

Please think about how each disaster should be ranked in terms of how concerned you are about each one. Please just rank the disasters by dragging a disaster up or down the list. Alternatively, you can also use the drop downs to select a number between '1' and '10' for each of the disasters, where '1' means most concerned and '10' means least concerned. At any moment just click the 'Update' button to have your ranking visually displayed. If you would like to see the text and answer for one of the disasters, please just place your mouse over its text (e.g. "[]"). If you change your mind just rearrange the current order. Once you are satisfied with your ranking, please just click 'Next' to continue.

IF New question = empty THEN

|
ELSE

| IF (ties(ranking for disaster) != 1 Most concerned) THEN

||
| ENDIF

|
ENDIF

LOOP FROM 1 TO 10 DO

|
| **rankingorder** ranking for disaster

| [[]/[]/[]/[]/[]/[]/[]/[]/[]/[]]

| 1 1 Most concerned

| 2 2

| 3 3

| 4 4

| 5 5

| 6 6

| 7 7

| 8 8

| 9 9

| 10 10 Least concerned

|
ENDDO

IF (ties(ranking for disaster) = 1 Most concerned) THEN

|
| **errorTies** You did not rank all vignettes or there are ties in your list. Please go back to change your answer.
| There are ties in your list. Please review your rankings and adjust them accordingly to avoid any
| ties. Please note that the visual display of the disasters in the list was not updated to reflect
| your current rankings.

|
ENDIF

dummy New question

String

[End of table display]

LOOP FROM 1 TO 10 DO

|

ENDDO

IF New fill != 55 THEN

|

| IF (ties(ranking for disaster) = 1 Most concerned) THEN

||

|| IF (ranking for disaster = empty OR ranking for disaster = empty OR ranking for disaster =

|| empty OR ranking for disaster = empty OR ranking for disaster = empty OR ranking for

|| disaster = empty OR ranking for disaster = empty OR ranking for disaster = empty OR

|| ranking for disaster = empty OR ranking for disaster = empty) THEN

|||

||| **errorBoth** You did not rank all vignettes or there are ties in your list. Please go back to change your answer.

||| You did not rank all the disasters AND there are ties in your list. Please go back to review

||| your rankings and adjust them accordingly to rank all disasters and to avoid any ties. Please

||| note that when you go back the visual display of the disasters in the list will not reflect

||| your current rankings.

|||

|| ELSE

|||

||| **errorTiesAfter** You did not rank all vignettes or there are ties in your list. Please go back to change your answer.

||| There are ties in your list. Please go back to review your rankings and adjust them

||| accordingly to avoid any ties. Please note that when you go back the visual display of the

||| disasters in the list will not reflect your current rankings.

|||

|| ENDIF

||

| ELSE

||

|| **errorRanking** You did not rank all vignettes or there are ties in your list. Please go back to change your answer.

|| You did not rank all the disasters. Please go back to change your answer(s).

||

| ENDIF

|

ENDIF

CS_001 HOW PLEASANT INTERVIEW

Could you tell us how interesting or uninteresting you found the questions in this interview?

1 Very interesting

2 Interesting

3 Neither interesting nor uninteresting

4 Uninteresting

5 Very uninteresting