

Quiz 5

- Due Apr 29 at 11:59pm
- Points 100
- Questions 10
- Available Apr 15 at 2pm - Apr 29 at 11:59pm
- Time Limit 15 Minutes

Instructions

This quiz is on the tornadoes, heat/cold/ wildfire (lectures 12, 13 and chapters 9, 10, 14).

- Time limit: 15 minutes
- The timer continues even if you exit the quiz
- One attempt
- Open book/note

Quizzes have no due dates, but all quizzes must be completed by April 29, 2024.

Attempt History

	Attempt	Time	Score
LATEST	<u>Attempt 1</u>	15 minutes	80 out of 100

Score for this quiz: 80 out of 100

Submitted Apr 23 at 11:29pm

This attempt took 15 minutes.



Question 1

0 / 10 pts

Why does the definition of a heat wave vary geographically and seasonally?



In regions where cool temperatures are normal, heat waves are only recognized when temperatures vary above normal temperatures by 20 °F.



In regions where moderate temperatures are normal, heat waves are only recognized when temperatures vary above normal temperatures by 15 °F.

Correct Answer



None of these; heat waves are defined by deviations above normal temperatures only.



In regions where high temperatures are normal, heat waves are only recognized when temperatures vary above normal temperatures by 10 °F.

You Answered

☒ all of these



Question 2

10 / 10 pts

Winds promote the spread of wildfire by

Correct!

☒ all of these

☐ transporting firebrands downwind, igniting spot fires.

☐ tilting flames over the top of unburned areas, heating the fuels beneath.

☐ none of these

☐ supplying oxygen-rich air to replenish oxygen consumed during combustion.



Question 3

0 / 10 pts

When are tornadoes most common in the U.S.?

You Answered

☒ Early spring

Correct Answer

☐ Late spring and early summer

☐ Winter

☐ Late summer and early fall



Question 4

10 / 10 pts

Which weather phenomena contains the highest wind speeds?

☐ Heatwaves

☐ Severe thunderstorms

☐ Hurricanes

Correct!

☒ Tornadoes

☐ Blizzards



Question 5

10 / 10 pts

A tornado warning is

- ☐ a formal statement issued by meteorologists to indicate that a tornado is presently forming.

Correct!

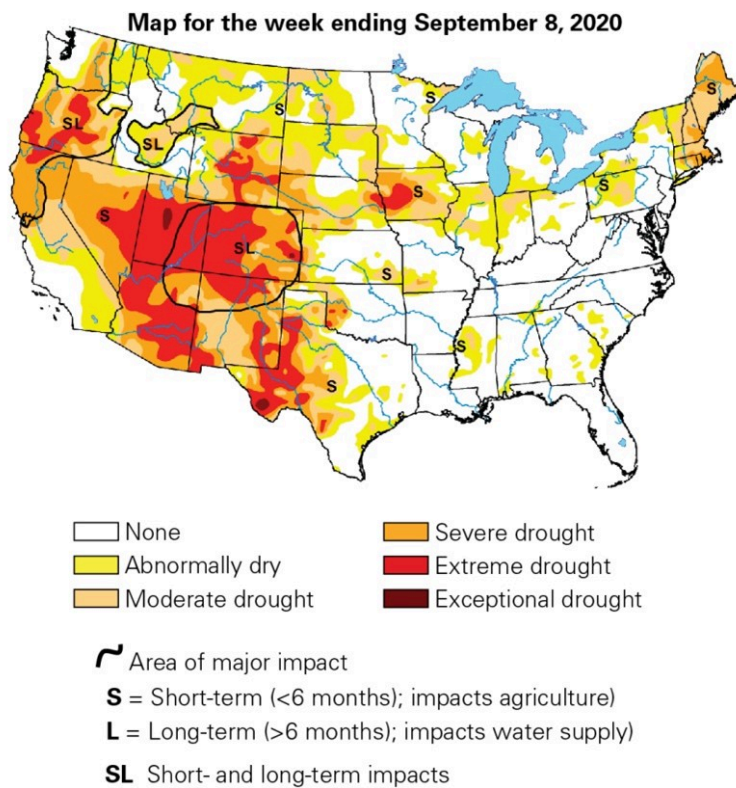
- ☒ a formal statement issued by meteorologists to indicate that a tornado has been sighted.
- ☐ a formal statement issued by meteorologists to indicate that conditions are favorable for tornadoes to form.
- ☐ A tornado watch can indicate any of these.



Question 6

10 / 10 pts

The figure below is the US Drought Monitor map for September 8, 2020. The US Drought Monitor is based on



- ☐ none of these

Correct!

- ☒ all of these
- ☐ soil conditions.
- ☐ climatologic and hydrologic measurements.
- ☐ reported drought impacts and observations.



Question 7

10 / 10 pts

Freezing rain occurs when

- ☐ snow melts on the surface, but refreezes into ice as temperatures get colder.
- ☐ all of these
- ☐ snow melts at higher altitudes, but refreezes into ice before hitting the surface.
- ☐ none of these

Correct!

- ☒ supercooled precipitation freezes on contact when it reaches the surface.



Question 8

10 / 10 pts

The Enhanced Fujita scale is used to classify tornadoes from EF0 to EF5. This scale is based on

- ☐ the width of tornado tracks.
- ☐ wind speeds.
- ☐ the amount of time a tornado is on the ground.

Correct!

- ☒ the amount of damage that results.



Question 9

10 / 10 pts

Typically, mid-latitude cyclones are more frequent, more intense, and affect larger areas during

Correct!

- ☒ the winter season.
- ☐ the spring season.
- ☐ the fall season.
- ☐ the summer season.



Question 10

10 / 10 pts

The most common cause of wildfire is

Correct!

- ☒ human activity.

- ☐ sparks from electrical distribution infrastructure.
- ☐ unknown causes.
- ☐ lightning strikes.

Quiz Score: 80 out of 100

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Attempt History

	Attempt	Time	Score
LATEST	<u>Attempt 1</u>	11 minutes	100 out of 100

Score for this quiz: 100 out of 100

Submitted Apr 25 at 8:50pm

This attempt took 11 minutes.



Question 1

10 / 10 pts

Why does the definition of a heat wave vary geographically and seasonally?

Correct!

☒ None of these; heat waves are defined by deviations above normal temperatures only.



In regions where high temperatures are normal, heat waves are only recognized when temperatures vary above normal temperatures by 10 °F.



In regions where moderate temperatures are normal, heat waves are only recognized when temperatures vary above normal temperatures by 15 °F.



In regions where cool temperatures are normal, heat waves are only recognized when temperatures vary above normal temperatures by 20 °F.



all of these



Question 2

10 / 10 pts

The Enhanced Fujita scale is used to classify tornadoes from EF0 to EF5. This scale is based on

Correct!



the amount of damage that results.



wind speeds.



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the amount of time a tornado is on the ground.

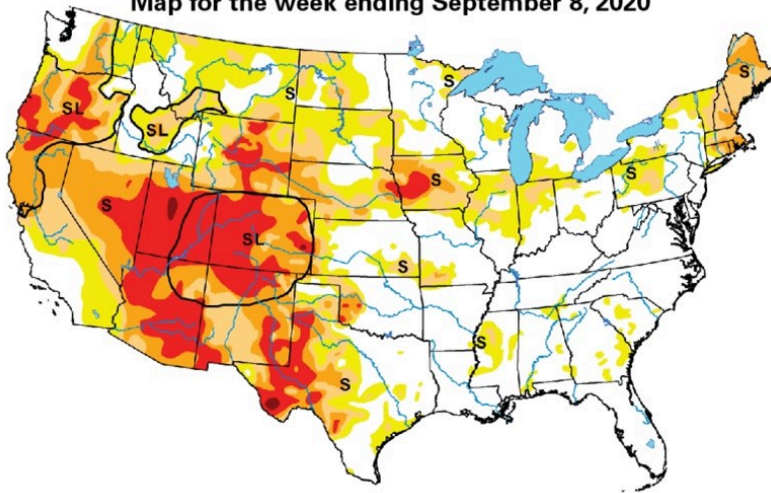


Question 3

10 / 10 pts

The figure below is the US Drought Monitor map for September 8, 2020. The US Drought Monitor is based on

Map for the week ending September 8, 2020



Area of major impact

S = Short-term (<6 months); impacts agriculture)

L = Long-term (>6 months); impacts water supply)

SL Short- and long-term impacts

Correct!

- ☒ all of these
- ☐ none of these
- ☐ reported drought impacts and observations.
- ☐ climatologic and hydrologic measurements.
- ☐ soil conditions.



Question 4

10 / 10 pts

The most common cause of wildfire is

Correct!

- ☒ human activity.
- ☐ sparks from electrical distribution infrastructure.
- ☐ lightning strikes.
- ☐ unknown causes.



Question 5

10 / 10 pts

What makes April 25-28 of 2011 so infamous in terms of tornadoes?

Correct!

- ☒ It was the largest outbreak in history with 358 tornadoes.
- ☐ The largest (width) tornado ever recorded occurred in southern Illinois.
- ☐ Two large tornadoes damaged New York City.
- ☐ No tornadoes occurred in Tornado Alley.



Question 6

10 / 10 pts

Winds promote the spread of wildfire by

- ☐ supplying oxygen-rich air to replenish oxygen consumed during combustion.
- ☐ none of these

Correct!

- ☒ all of these
- ☐ tilting flames over the top of unburned areas, heating the fuels beneath.
- ☐ transporting firebrands downwind, igniting spot fires.



Question 7

10 / 10 pts

Typically, mid-latitude cyclones are more frequent, more intense, and affect larger areas during

- ☐ the summer season.

Correct!

- ☒ the winter season.
- ☐ the fall season.
- ☐ the spring season.



Question 8

10 / 10 pts

Heat stroke is the progression from heat exhaustion, and may be manifested by fainting, a very fast pulse, headache, vomiting, and confusion. Heat stroke occurs when the body temperature rises to

- ☐ 105 °F.

Correct!

- ☒ 104 °F.
- ☐ 103 °F.
- ☐ 101 °F.
- ☐ 102 °F.



Question 9

10 / 10 pts

Which weather phenomena contains the highest wind speeds?

- ☐ Heatwaves

Correct!

- ☒ Tornadoes
- ☐ Hurricanes
- ☐ Severe thunderstorms
- ☐ Blizzards



Question 10

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Freezing rain occurs when

Correct!

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