Oklahoma Maps

Upward Bound 2020 Earth Science

Instructions Select the best response for questions 1-20.

Select your responses on the Survey Monkey provided by Honeycutt.

Map A

Map B







- 1.
- 2.
- 3.
- 4.

- 5.
- 6.
- 7.
- 8.

- 9.
- 10.
- 11.
- 12.

- 13.
- 14.
- 15.
- 16.

- 17.
- 18.
- 19.
- 20.



Earthquakes



Base Map



Topographic



Rainfall



Geological



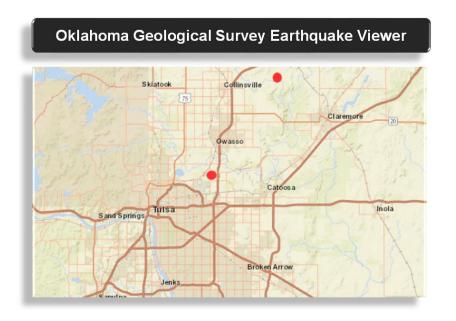
This map identifies the epicenter (location) of two earthquakes.

Oklahoma Geological Survey Earthquake Viewer





This page shows data associated with each earthquake.



Tulsa

GMT Time: Mon, 15 Jun 2020 16:00:25 GMT

Local Time: 6/15/2020, 11:00:25 AM

Magnitude: 1.6 Depth: 0 km

Latitude: 36.215

Longitude: -95.86516667

County: Tulsa Status: Reviewed

Collinsville

GMT Time: Mon, 15 Jun 2020 17:33:27 GMT

Local Time: 6/15/2020, 12:33:27 PM

Magnitude: 1.4 Depth: 0 km

Latitude: 36.38283333 Longitude: -95.72316667

County: Rogers Status: Reviewed



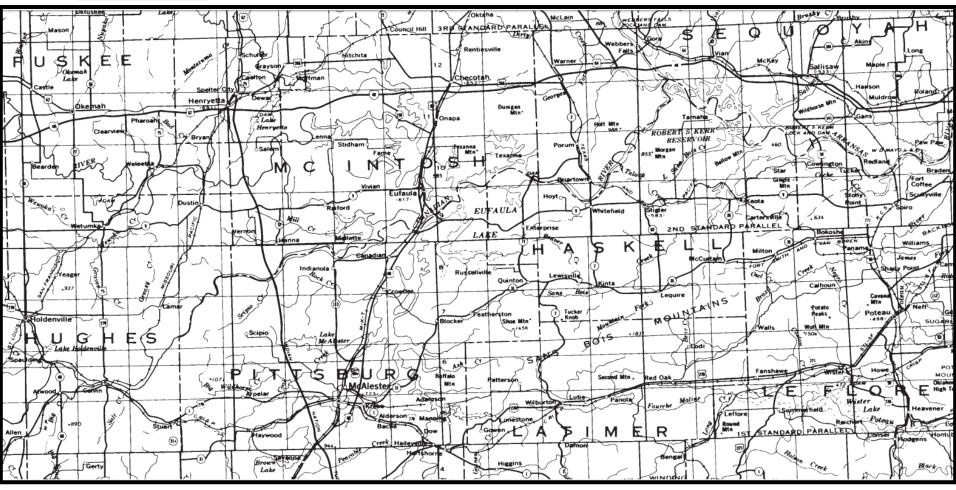
Select the best response for each question.

- 1. Which response best describes the sequence of the two earthquakes?
- A They happened at the same time.
- B Tulsa earthquake happened first.
- C Collinsville earthquake happened first.
- D They happened on different days.
- 2. Which response best describes the relationship of the epicenters of the two earthquakes?
- A Skiatook was east of the Collinsville quake.
- B Broken Arrow was north of Collinsville quake.
- C Collinsville quake was northeast of Tulsa.
- D Inola was west of both quakes.

- 3. Which response best describes distances represented by the map?
- A Width of the map represents about 35 miles.
- B A highway runs from Catoosa to Claremore.
- C The earthquakes were about 35 miles apart.
- D Inola is more distant to Tulsa than Arkansas.
- 4. Which response best describes the magnitude of the two earthquakes.
- A Collinsville quake was northeast of Tulsa.
- B Collinsville magnitude happened first.
- C Magnitude is Catoosa-Claremore topographic.
- D The Tulsa quake had the largest magnitude.



This map is a portion of the Oklahoma base map updated 1975.





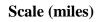
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF OKLAHOMA

National geodetic vertical datum of 1929

Compiled, edited, and published by the Geological Survey. 1927 North American datum Lambert conformal conic projection based on standard parallels 33* and 45*

	Camperi como mai como projección pases en standaro paranes 33. a	
LEGEND	SOURCE DATA	POPULATION KEY
State capital —(ii)—	U. S. Dept. of the Interior — Geological Survey topographic maps	OKLAHOMA CITYmare than 100,000
County seat	U. S. Liegit of the Army—Corps of Engineers topographic maps	LAWTON
City, town, or village ————		Ponca City
Scheduled service airport		Vinita
Built-up area shown for towns over 10,000 popul	SASE MAP WITH HIGHWAYS	Buttalo less than 2,500 Population indicated by rice of letters
	State capital ————————————————————————————————————	Size capital Control U.S. Day of the Interior - General Street England House Control seat Contro



5 10 15 20 25 30 35 40 45 50

Adapted/extracted from: ogs.ou.edu/docs/maps/map-oklahoma basemap 1975.pdf



5. Which statement <u>is not</u> supported by Map B?

IS NOT

- A Several counties are represented by the map.
- B Square miles of map B is greater than map A.
- C Haskell County is north of Latimer County.
- D Map B was first made in 1960.

6. Which statement <u>is</u> supported by Map B?

- A Sequoyah is northwest of Pittsburg County.
- B The scale is in 5 km increments.
- C The map shows roads, rivers and lakes.
- D The area shown on map B is less than map A.

7. Which statement best describes the type of this map?

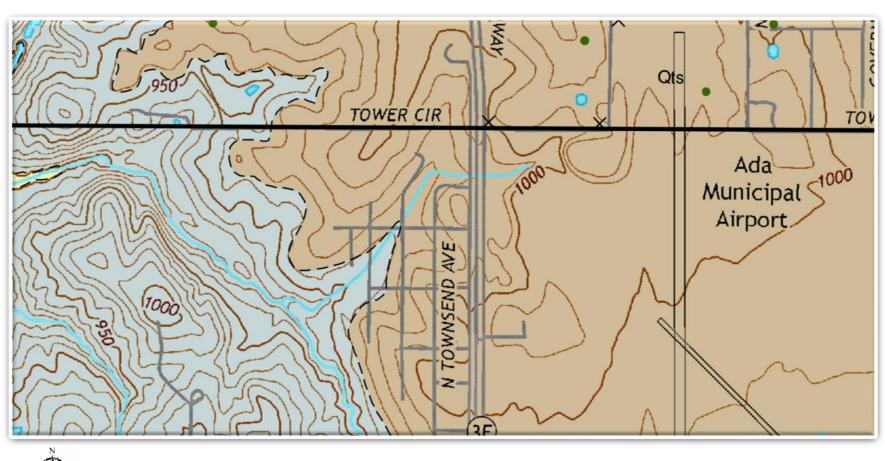
- A This is a geological/lithology survey.
- B This is part of an Oklahoma base map.
- C Elevations of each county are emphasized.
- D Oklahoma was once part of Texas.

8. Which idea can most easily be inferred by Map B?

- A Sans Bois Mountains are rich with wildlife.
- B Inola is closer to Tulsa than Sand Springs.
- C Oklahoma is more than 100 miles wide.
- D Eufaula Lake is a major fishing destination.



This map is a topographic map near the Ada airport.





Adapted/extracted from: ogs.ou.edu/docs/OGQ/OGQ-93-color.pdf



9. Which statement is supported by Map C?

- A N. Townsend Ave. runs north-south.
- B The airport is located near a museum.
- C The contour lines should be straight.
- D The scale shown describes map distances.

10. Which statement is supported by Map C?

- A Sequoyah is northwest of Pittsburg County.
- B The scale is in 5 mile increments.
- C The map shows elevations.
- D The museum features dinosaurs.

11. Which statement best describes the type of this map (Map C)?

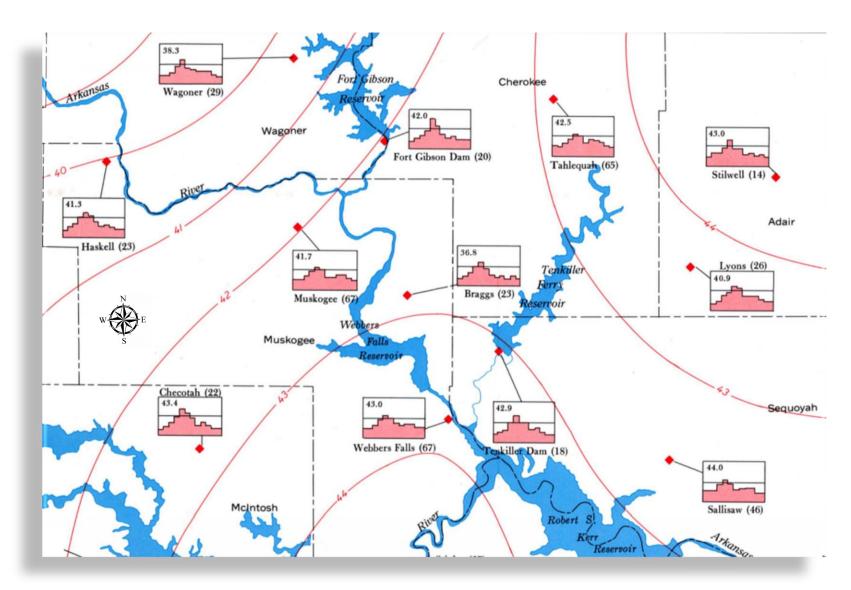
- A This is a geological/lithology survey.
- B This is part of an Oklahoma base map.
- C This is a contour map showing elevations.
- D This is a weather map shown tornado paths.

12. Which idea can most easily be inferred or confirmed by Map C?

- A Sans Bois Mountains are rich with wildlife.
- B The airport's elevation is similar to a nearby hill
- C Rainfall at Ada airport is about 1,000 mm/year.
- D Rainfall at Ada airport is about 1,000 cm/year.



This map shows monthly and annual rainfall for parts of Oklahoma.

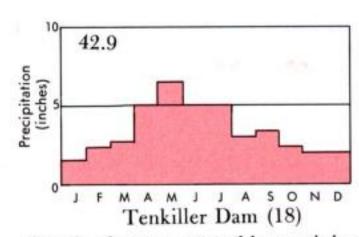


Adapted/extracted from: ogs.ou.edu/docs/hydrologicatlases/HA1P4.pdf



EXPLANATION

Line connecting points of equal mean annual precipitation, based upon normal annual precipitation 1931-1960. Interval: 1 inch



Graph of average monthly precipitation. Figure in upper left of graph is average annual precipitation for the period of record; figure in parentheses after station name is years of record.



13. Which statement is supported by Map D?

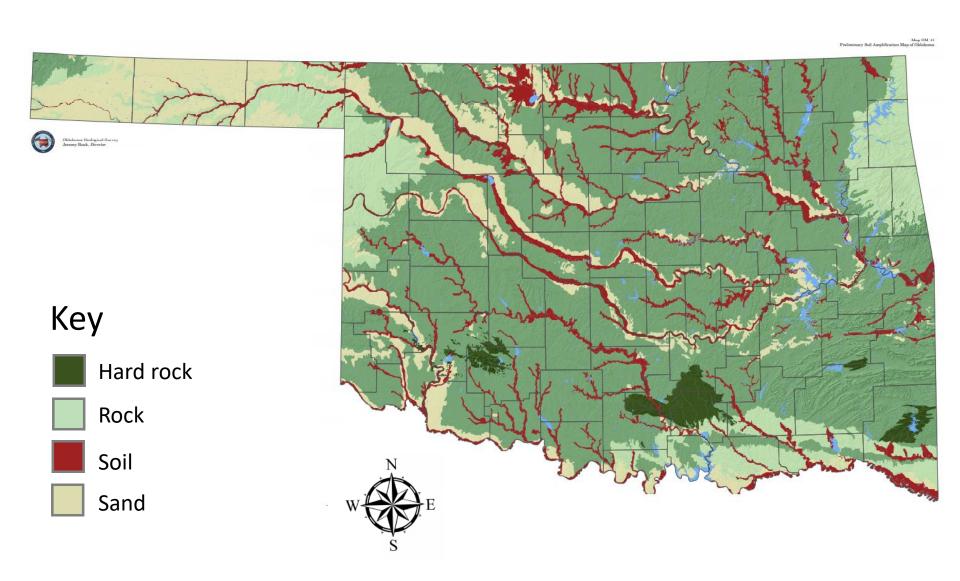
- A Robert Kerr Reservoir begins at Checotah.
- B The bar graphs display monthly rainfall.
- C The contour lines should be straight.
- D The scale shown describes map distances.
- 14. Of the station locations listed below, which location on Map D has the fewest number of "years of record" for rainfall?
- A Stillwell
- B Tahlequah
- C Tenkiller Dam
- D Sallisaw

15. Which statement best describes data supported by the bar graphs?

- A Tenkiller gets more rain in May than August.
- B Tenkiller has the most visitors during winter.
- C Tenkiller has the most visitors during summer.
- D Tenkiller the most rain in Oklahoma.
- 16. Which idea can most easily be inferred about the area illustrated by Map D?
- A Annual rainfall varies from 5 to 10 inches.
- B Rainfall peaks July & August in Oklahoma.
- C Annual rainfall varies from 2 to 6 inches.
- D Contour lines and bar charts convey data.



This map is a geological map of Oklahoma.



Adapted/extracted from: ogs.ou.edu/docs/geologicmaps/GM41.pdf



This map of Oklahoma shows the counties.





- 17. Which counties have the highest percentage of hard rock?
- A Custer and Blaine
- B Cimarron and Texas
- C Cherokee and Adair
- D McCurtain and Johnston
- 18. Which county has the highest percentage of soil?
- A Alfalfa
- B Stephens
- C Adair
- D Johnston

- 19. Which county is in the northeast corner of the state?
- A Cimarron
- B McCurtain
- C Harmon
- D Ottowa
- **20.** According to the key, which is represents the farthest distance?
- A 40 km
- B 40 miles
- C 4,000 meters
- D 4,000 or more