



TOPIC: Geography  
GRADE LEVEL: 5 - 9  
TIME: Adaptable

## LATITUDE AND LONGITUDE

**OBJECTIVE:** The student will learn to use lines of latitude and longitude as a way to locate specific areas of the United States.

### MATERIALS NEEDED:

1. There are two data sheets and three student activity sheets included in this activity. You must first decide which you will use. The sheets can then be run off for individual student use, and/or transparencies can be made to be used with an overhead projector and screen.
2. A political map of the United States for student reference.

### PROCEDURE:

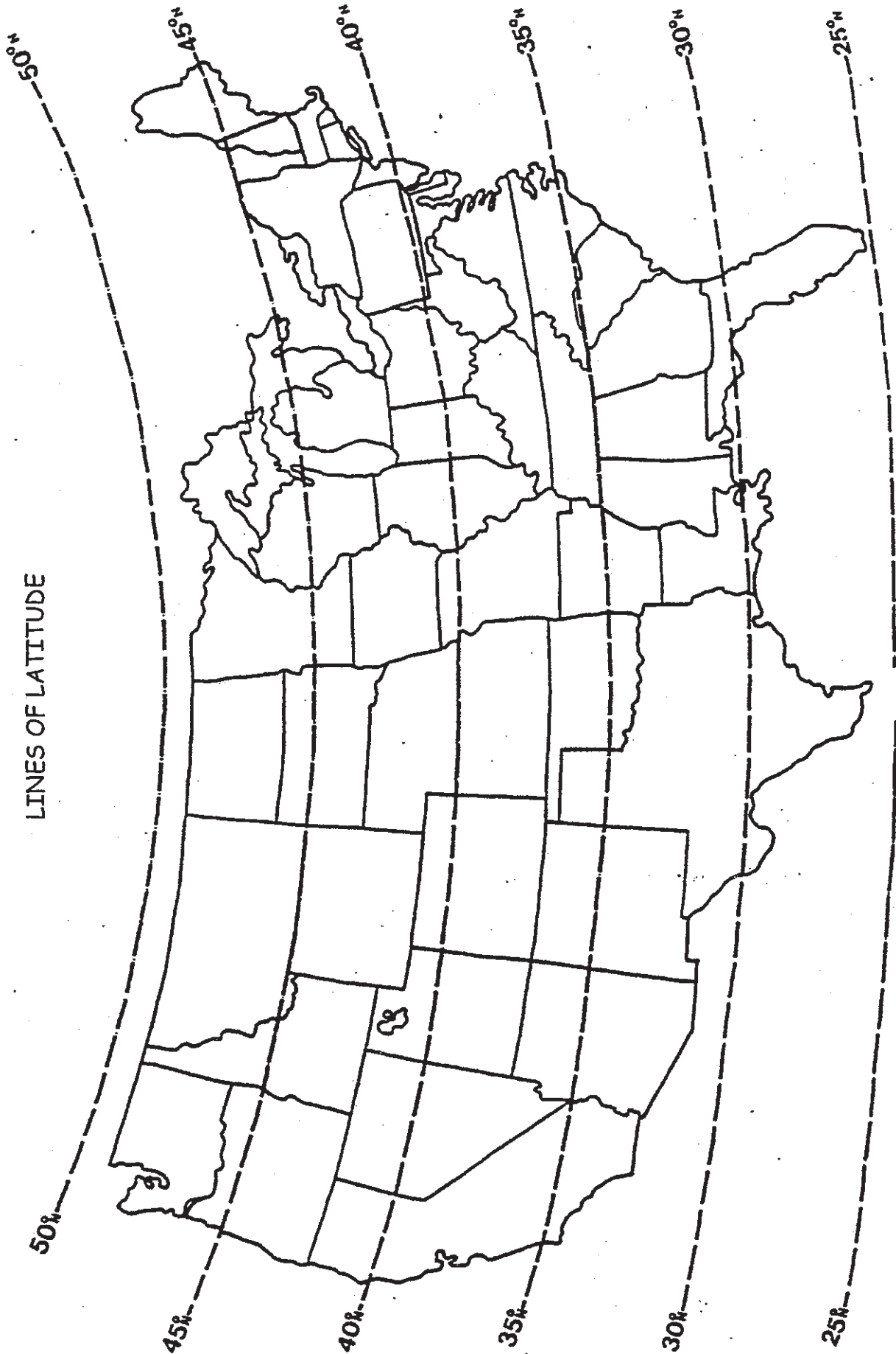
#### Activity One - Lines of Latitude

1. Distribute data and activity sheets to class members, if being used.
2. If sheets are not being used, project prepared transparency of data sheet, "Lines of Latitude."
3. Instruct students to answer the questions you will read to them from the Student Activity Sheet. They will refer to the projected transparency and a map of the United States to determine proper responses which can be written and/or given orally.

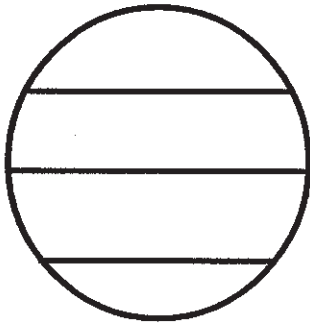
### PROCEDURE:

#### Activity Two - Latitude/Longitude

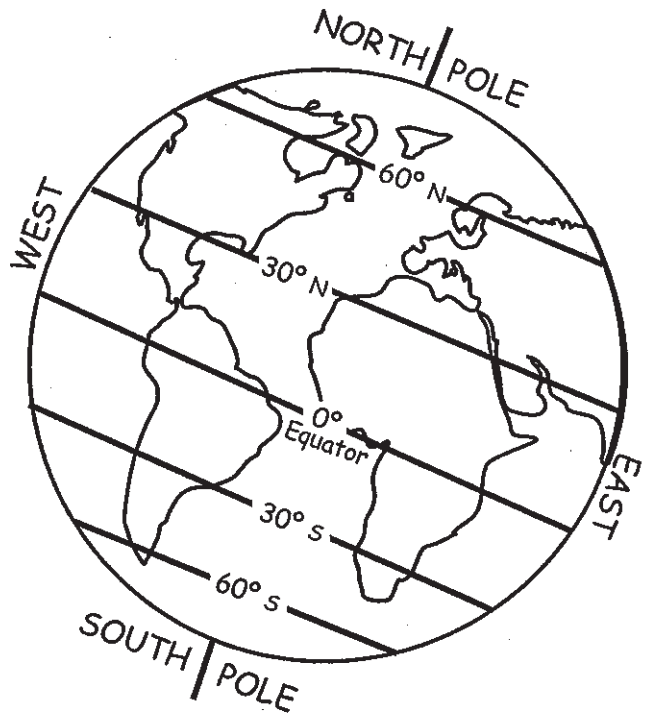
1. Follow the same procedure as Activity One using appropriate data and activity sheets.
2. If the students are writing answers on their own paper, allow sufficient time to complete the activity and then check the assignments as a class by reading or projecting the answers.



# Lines of LATITUDE \_\_\_\_\_



A convenient way of locating places on our maps is by the use of lines of latitude. Lines of latitude are imaginary lines running east and west around the earth. Sitting at the equator, latitudes are measured in degrees ( $^{\circ}$ ) to the North and South Poles.



Using the map of the United States, find and name at least 5 states that lay between  $30^{\circ}\text{N}$  and  $35^{\circ}\text{N}$  latitude.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

Using a United States map, name at least ten cities that lay between  $40^{\circ}\text{N}$  and  $45^{\circ}\text{N}$  latitude.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

Between  $35^{\circ}\text{N}$  and  $40^{\circ}\text{N}$  latitude, locate three places you would find interesting to visit. Choose the one you would most want to visit. Give five reasons why you chose as you did.

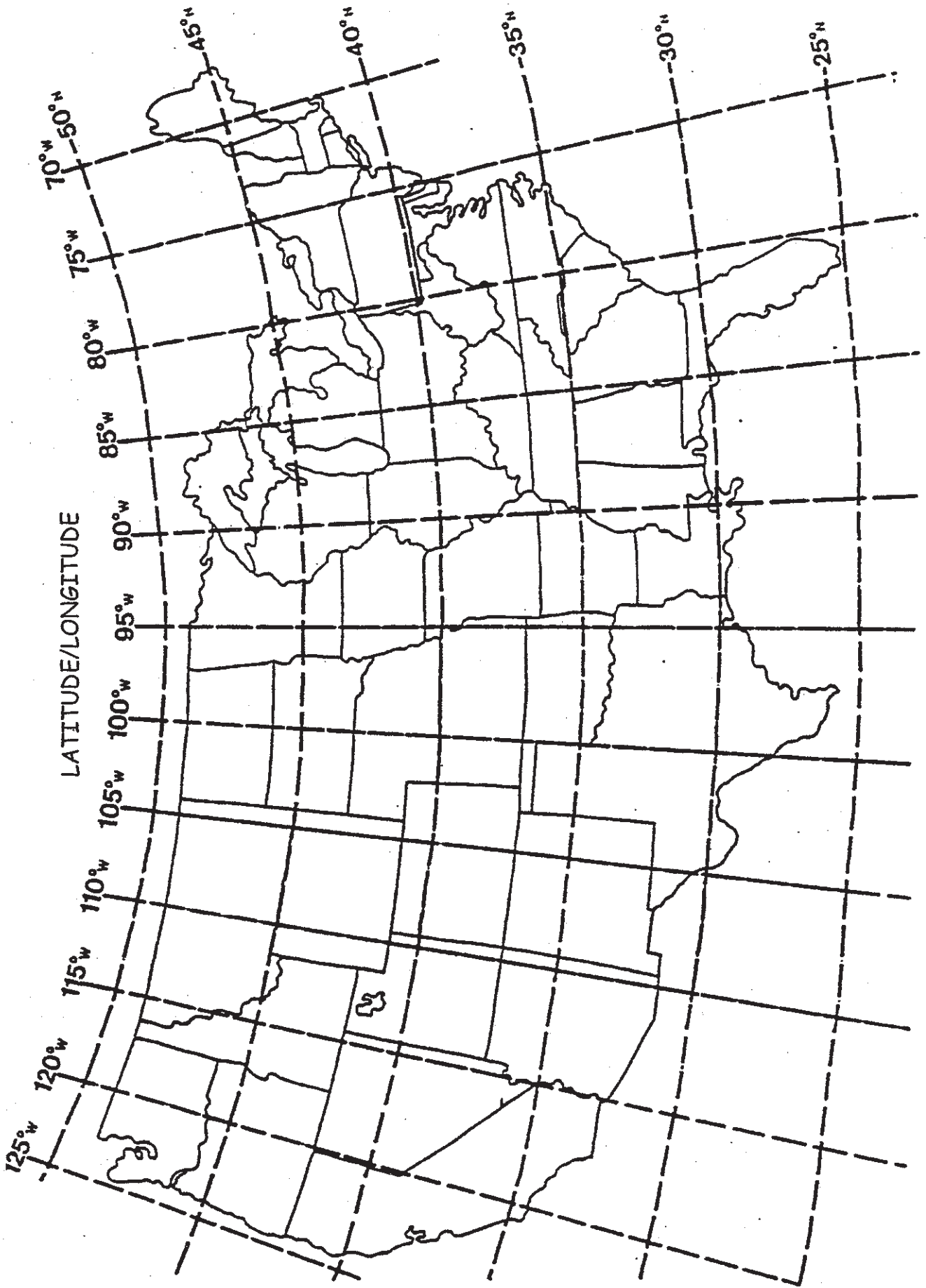
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Your choice: \_\_\_\_\_

Reason 1: \_\_\_\_\_ 2: \_\_\_\_\_ 3: \_\_\_\_\_

4: \_\_\_\_\_ 5: \_\_\_\_\_

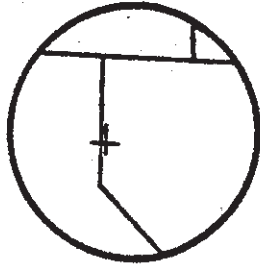
STUDENT DATA SHEET #2



# Latitude-Longitude \_\_\_\_\_

The following are small sections of your U.S. map. Locate these sections giving the nearest intersecting lines of latitude and longitude. These are marked by a plus + sign.

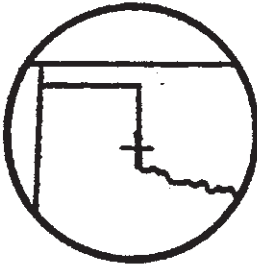
Example:



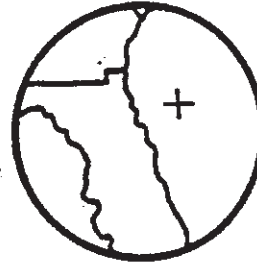
This example shows the border area of Nevada, California, and Oregon marked by the intersecting of 120°W Longitude, 40°N Latitude.



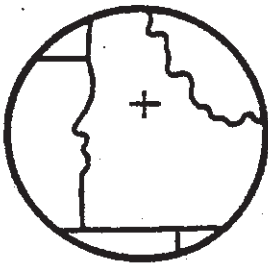
— N  
— W



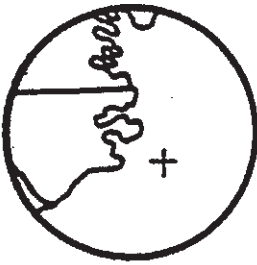
— N  
— W



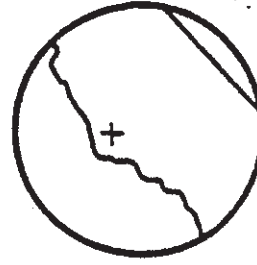
— N  
— W



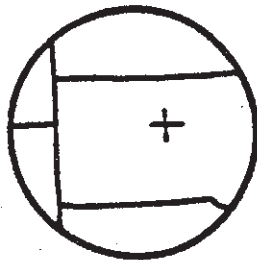
— N  
— W



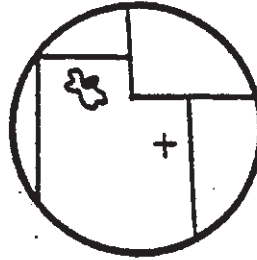
— N  
— W



— N  
— W



— N  
— W

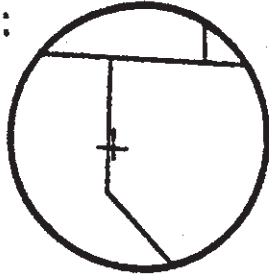


— N  
— W

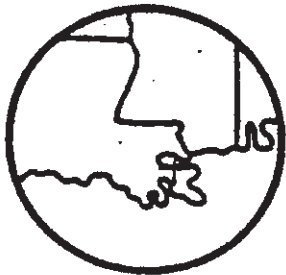
# Latitude-Longitude \_\_\_\_\_

The following are small sections of your U.S. map. Locate these sections giving the nearest intersecting lines of latitude and longitude. These are marked by a plus + sign.

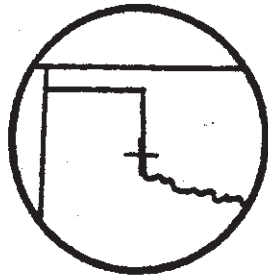
Example:



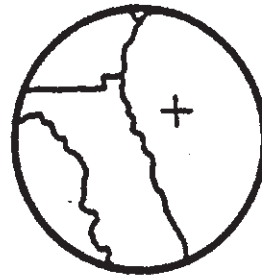
This example shows the border area of Nevada, California, and Oregon marked by the intersecting of  $120^{\circ}\text{W}$  Longitude,  $40^{\circ}\text{N}$  Latitude.



$30^{\circ}\text{N}$   
 $90^{\circ}\text{W}$



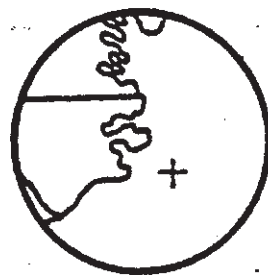
$35^{\circ}\text{N}$   
 $100^{\circ}\text{W}$



$30^{\circ}\text{N}$   
 $80^{\circ}\text{W}$



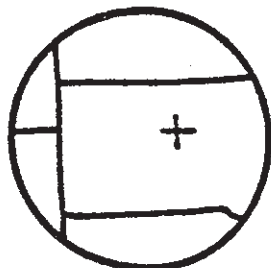
$45^{\circ}\text{N}$   
 $115^{\circ}\text{W}$



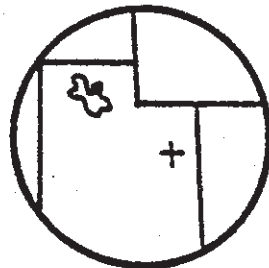
$35^{\circ}\text{N}$   
 $75^{\circ}\text{W}$



$35^{\circ}\text{N}$   
 $120^{\circ}\text{W}$



$45^{\circ}\text{N}$   
 $100^{\circ}\text{W}$



$40^{\circ}\text{N}$   
 $110^{\circ}\text{W}$

# Latitude-Longitude \_\_\_\_\_

Use your map of the United States to locate the states that these intersections are located in.

1. 45°N, 100°W

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2. 40°N, 110°W

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3. 35°N, 110°W

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4. 35°N, 95°W

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5. 45°N, 90°W

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6. 40°N, 90°W

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7. 45°N, 90°W

---

8. 35°N, 80°W

---

9. 40°N, 95°W

---

10. 45°N, 110°W

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# Latitude-Longitude \_\_\_\_\_

Use your map of the United States to locate the states that these intersections are located in.

1. 45°N, 100°W

South Dakota

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2. 40°N, 110°W

Utah

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3. 35°N, 110°W

Arizona

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4. 35°N, 95°W

Oklahoma

---

5. 45°N, 90°W

Maine

---

6. 40°N, 90°W

Illinois

---

7. 45°N, 90°W

Minnesota

---

8. 35°N, 80°W

South Carolina

---

9. 40°N, 95°W

Kansas

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10. 45°N, 110°W

Wyoming

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