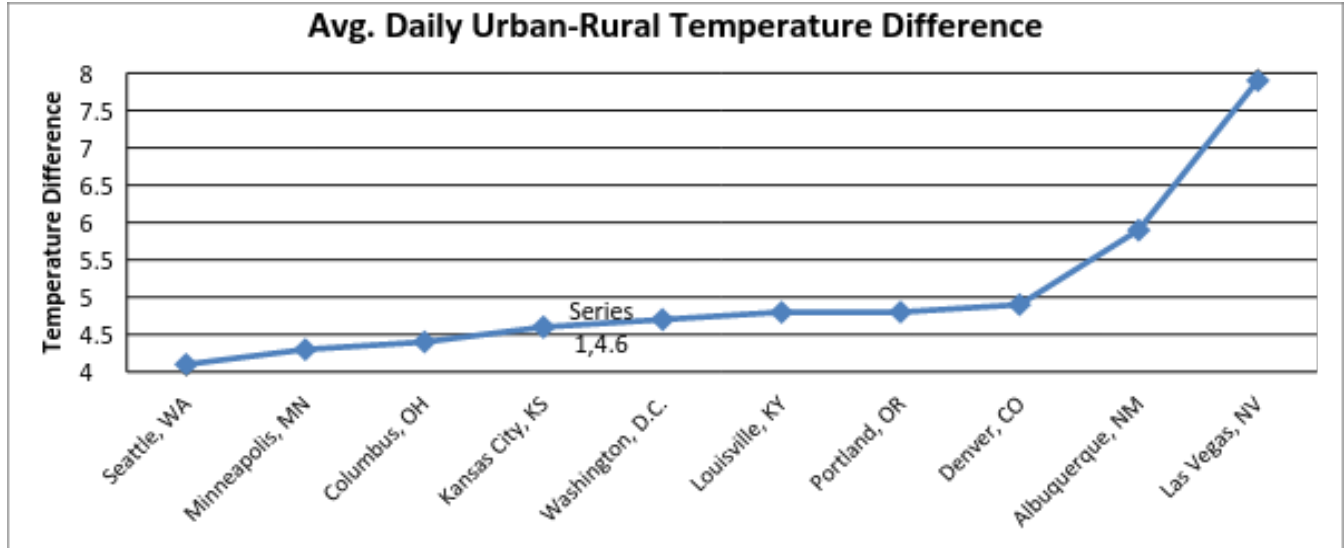


Name: _____

Period: _____

Microclimate: Urban Heat Islands

Definition - a city or metropolitan area that is significantly warmer than its surrounding rural areas due to human activities.



Using the chart above, answer questions 1-6.

1. Looking at the chart above, what is the temperature difference in Portland, OR? _____
2. What city shown has the highest temperature difference? _____
3. Why do you think that is so? _____
4. What region is not really represented on the chart? _____
5. What two cities shown have the same temperature difference? _____
6. Explain the title of the chart and what the data is showing? _____

7. Will buildings absorb more or less light than natural ground cover? _____
8. What other surfaces in cities absorb light energy? _____
9. How does the absorption of light energy affect the climate of cities? _____

10. What is the urban canyon effect? _____
11. Give 5 examples of an Urban Heat Island. _____
12. How does an UHI affect nearby streams? _____
13. How does an UHI affect wildlife in the city? _____
14. How do UHI affect the weather surrounding cities? _____
15. How do UHI affect the health of city residents? _____
16. How do UHI affect the energy usage of the city itself? _____
17. What types of strategies can cities use to mitigate (lessen) the impact of the UHI? _____
