

Wisconsin's Major Aquifers Activity Sheet (Northern Wisconsin)

1. On the diagram of Wisconsin's major aquifers, label the layers of rock on the cross-section:

- a) Sand and gravel aquifer
- b) Eastern dolomite aquifer
- c) Maquoketa shale confining layer
- d) Sandstone and dolomite aquifer
- e) Crystalline bedrock aquifer

2. Use colored pencils to color the AQUIFERS different colors.

3. Answer the following questions:

- a) Describe the arrangement and shape of the layers shown on the diagram.

- b) What are confining layers?

- c) How do they affect groundwater movement?

- d) Name the aquifer used by each of the following cities:

Hudson _____

Eau Claire _____

Junction City _____

Stevens Point _____

De Pere _____





e) Using the scale on the left margin of the diagram, estimate the depths of wells at these cities.

Hudson _____ ft. Stevens Point _____ ft.

Eau Claire _____ ft. De Pere _____ ft.

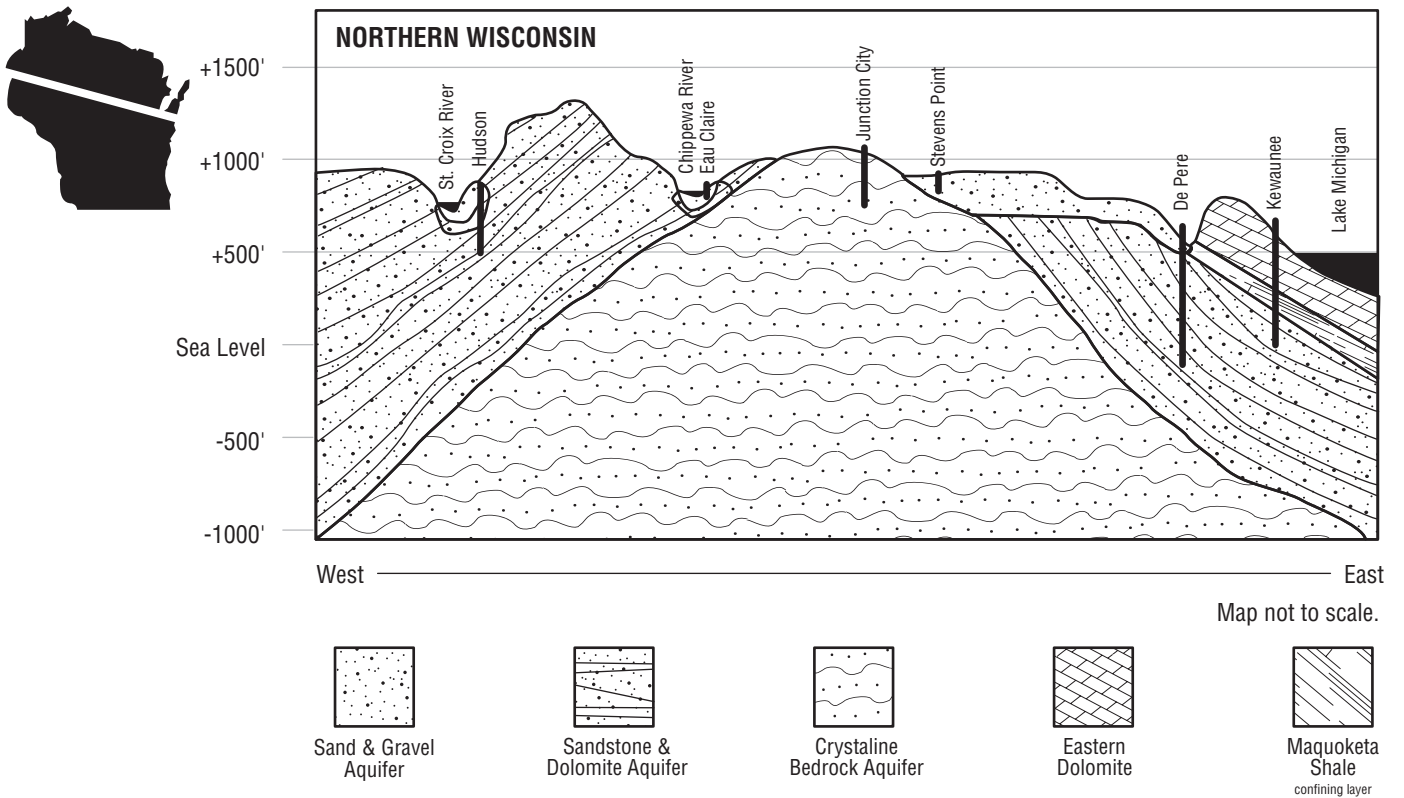
Junction City _____ ft.

f) According to the diagram, which city's well would you expect to be the most susceptible to contamination?

Why? _____

g) Water that has been in bedrock a long time often contains many dissolved minerals. This water may have to be treated to improve its taste, odor or color. According to the diagram, which city's well do you think is most likely to have a problem with dissolved minerals?

Why? _____



Wisconsin's Major Aquifers Activity Sheet (Southern Wisconsin)

1. On the diagram of Wisconsin's major aquifers, label the layers of rock on the cross-section:

- a) Sand and gravel aquifer
- b) Eastern dolomite aquifer
- c) Maquoketa shale confining layer
- d) Sandstone and dolomite aquifer
- e) Crystalline bedrock aquifer

2. Use colored pencils to color the AQUIFERS different colors.

3. Answer the following questions:

- a) Describe the arrangement and shape of the layers shown on the diagram.

- b) What are confining layers?

- c) How do they affect groundwater movement?

- d) Name the aquifer used by each of the following cities:

Prairie du Chien _____

Boscobel _____

Madison _____

Waukesha _____



e) Using the scale on the left margin, estimate the depths of wells at these cities.

Prairie du Chien _____ ft. Madison _____ ft.

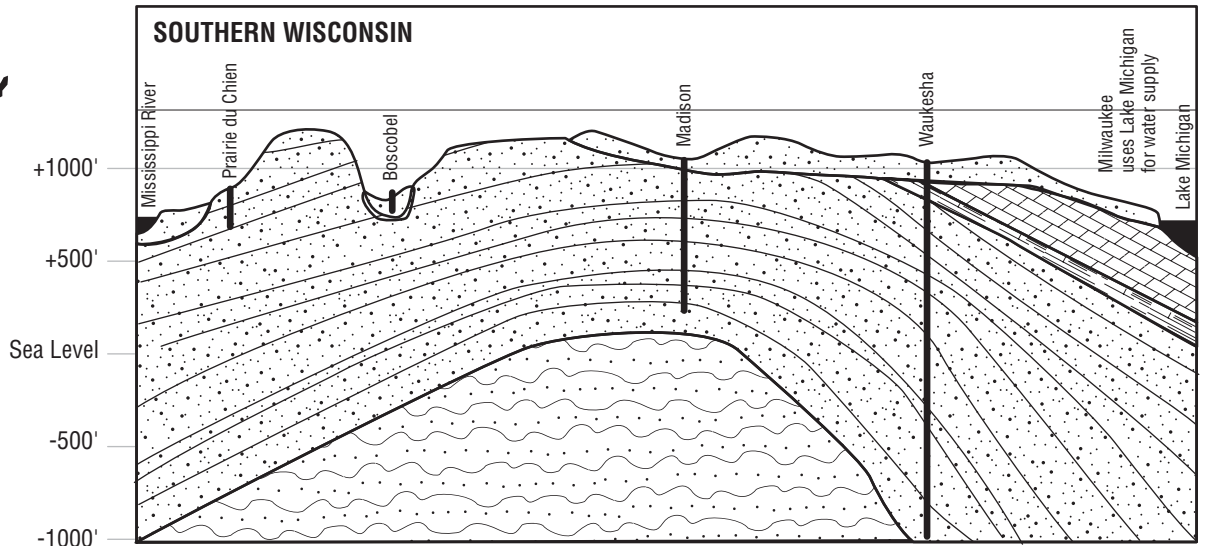
Boscobel _____ ft. Waukesha _____ ft.

f) According to the diagram, which city's well would you expect to be the most susceptible to contamination?

Why? _____

g) Water that has been in bedrock a long time often has many dissolved minerals in it. This water may have to be treated to improve its taste, odor or color. According to the diagram, which city's well do you think is most likely to have a problem with dissolved minerals?

Why? _____



West _____ East
Map not to scale.

