

Name:

What will happen to snow around Jackson Hole in the 21st century?

Instructions: Please use the fact sheet to answer the questions below.

Understanding the Graphs

1. What does Figure 1a show about changes in precipitation during winter?
2. What does Figure 1b tell us about how much precipitation will fall as rain instead of snow?
3. In Figure 2a, how has snowpack (SWE) changed historically, and what is expected to happen in the future?
4. Look at Figures 2b, 2c, and 2d. How does elevation affect how much snow will be lost over time?
5. What does the shaded area in the graphs represent? Why is this important when making predictions?

Thinking About the Information

6. The fact sheet says winter will be wetter, but there won't be more snow. Why?
7. How might earlier snowmelt and drier summer soils affect wildfires?
8. Why do water managers care about snow water equivalent (SWE) on April 1st?
9. How will changes in snowpack affect people and businesses in Jackson Hole?
10. The fact sheet says the amount of snow will depend on elevation. Why do higher elevations keep more snow for longer?