

**ACT Preparation: Drilling Mud**



**Read the paragraphs before the graphs.**

1. The three plots of land were carefully chosen. They were all unsloped. Why is that important in this study?
2. The three plots of land were carefully chosen. They were all had the same amount of vegetation. Why is that important in this study?
3. Was the area of the plot a variable in this experiment? \_\_\_\_\_ Explain your answer.
4. Why is DM sprayed onto the land and vegetation?
5. There were 2 sensors for each plot of land. What did the 2 sensors measure?
6. If an area of land is absorbing sunlight, what would be true about the temperature of the land?
7. What is albedo?
8. What was the albedo for plot 2 on July 15?
9. For plot 1 on August 9, what percent of incoming solar radiation was *not* reflected from the surface?
10. On July 5, what was the temperature of plot 3?
11. Which plot consistently demonstrated a higher temperature?
12. Which plot consistently demonstrated a higher albedo?
13. What was the overall effect of DM on albedo?
14. What was the overall effect of DM on the temperature of the land?