

Name _____

Adapting to Change: How Woody Plants Respond to Environmental Challenges

Short Answer Key

1. One adaptation that helps woody plants cope with drought conditions is the ability to reduce water loss through transpiration by closing stomata.
2. Woody plants help mitigate the effects of pollution by detoxifying their tissues and absorbing pollutants from the soil.
3. Genetic diversity allows woody plants to adapt to changing environmental conditions by providing variation that enhances their resilience and adaptability.
4. Woody plants regulate their internal temperature in response to extreme heat by adjusting leaf orientation or transpiration rate to minimize exposure to intense sunlight.
5. Woody plants enhance nutrient absorption from the soil in nutrient-poor environments through mechanisms such as forming symbiotic relationships with beneficial fungi or shedding leaves to recycle nutrients.

