

Phosphorus may be lost from soil by a. erosion leaching runoff d. all of the above



In a corn field, movement of nitrate into groundwater

- a. can be managed by appropriate fertilizer practices
- b. is more likely to occur when the crop is rapidly growing
- c. is more likely to occur after harvest
- d. is largely controlled by microbial activity

- The use of a rye cover crop in corn may
 - a. increase the K requirement for the next corn crop

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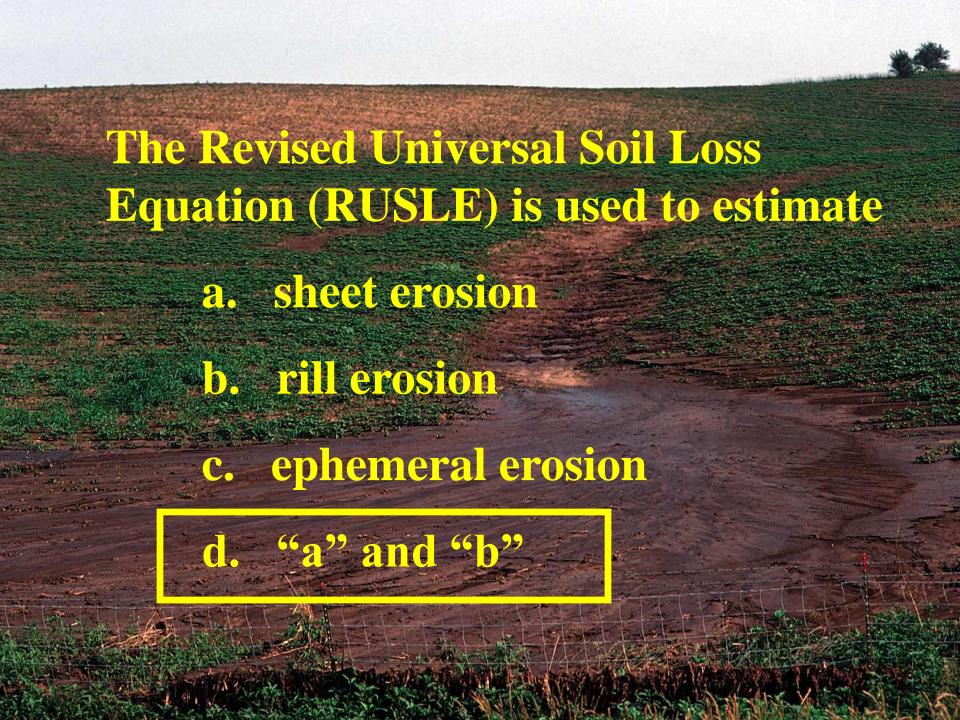
- b. reduce the N-requirement for the next com crop
- c. reduce the K requirement for the next corn erop
 - d. increase the rate of leaching

Installing a filter strip at the bottom of the slope will

- a. reduce soil erosion on the cropfield above
- b. reduce the amount of sediment entering the stream
- c. trap nutrients and other contaminants d. "b" and "c"

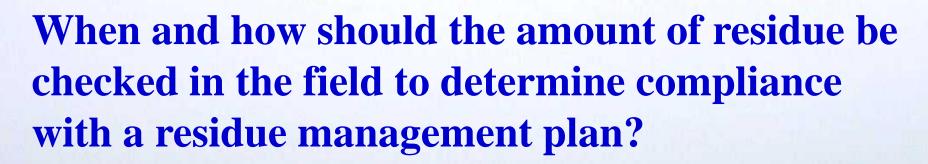
Soil surface crusting is the result of

- a. intensive conventional tillage
- b. poor soil structure with low organic material content
- c. low surface residue cover
- d, all of the above



The "Cardinal Rule" or principle to prevent wind erosion is to

- a. plant the crop early
- b. utilize a good crop nutrient program
- c. keep the land covered
 - d. improve the drainage of the field



- a. after harvest of the crop as one drives over the field
- b. after harvest using a line transect
- c. after primary tillage in the spring while disking
- d. after planting using a line transect



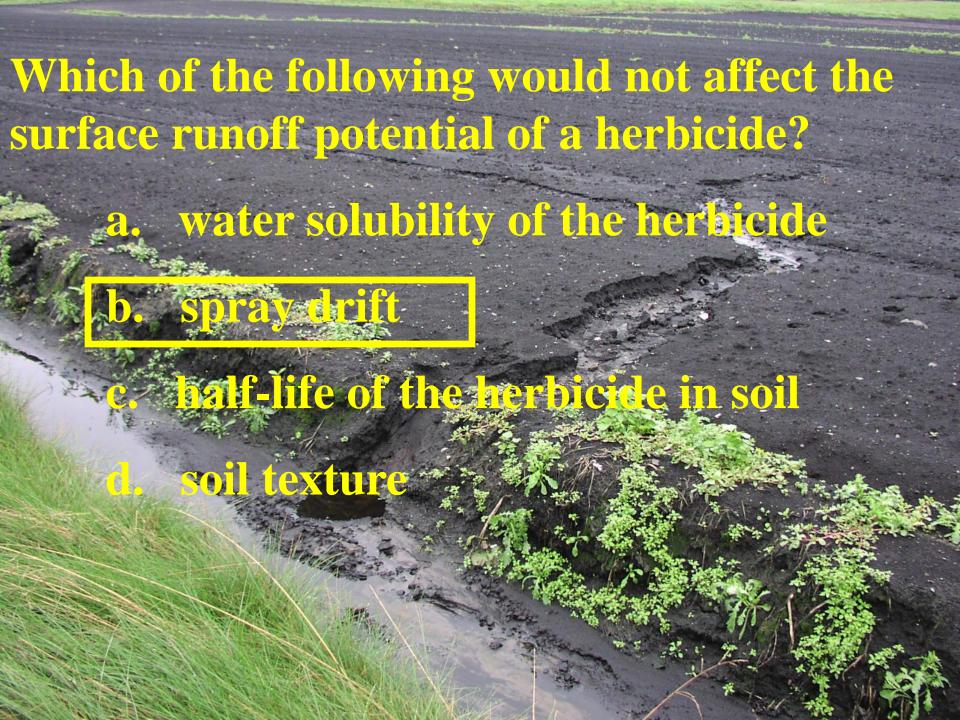
Chisel plows incorporate surface residue while tilling the soil. To incorporate the minimum amount of residue

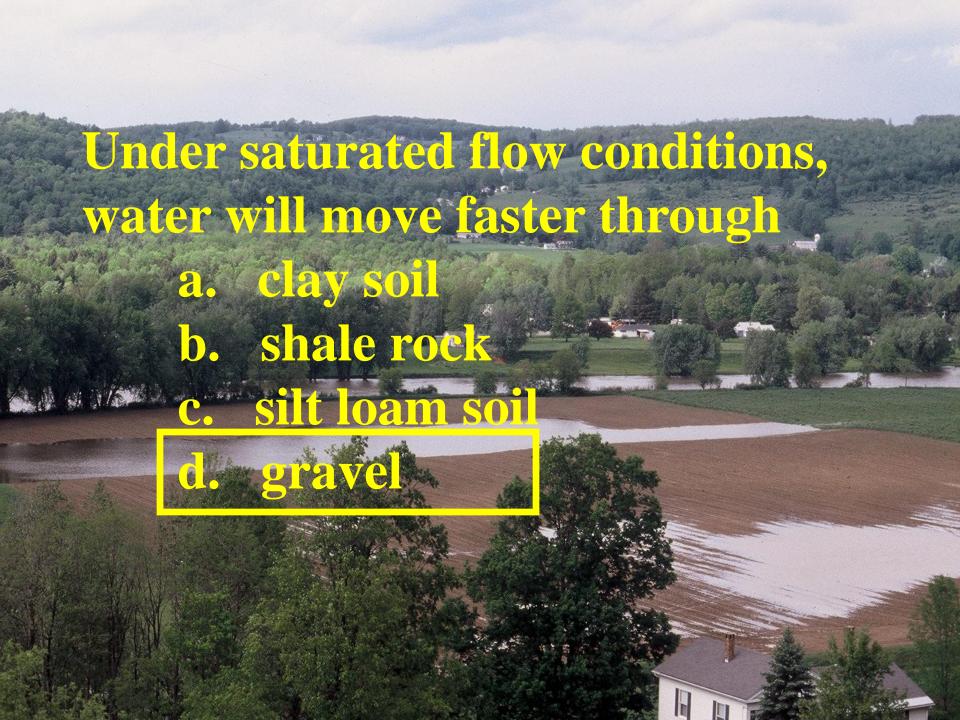
- a. sweeps could be used
- b. ground speed could be increased
- c. twisted shanks could

be used

d. all of the above

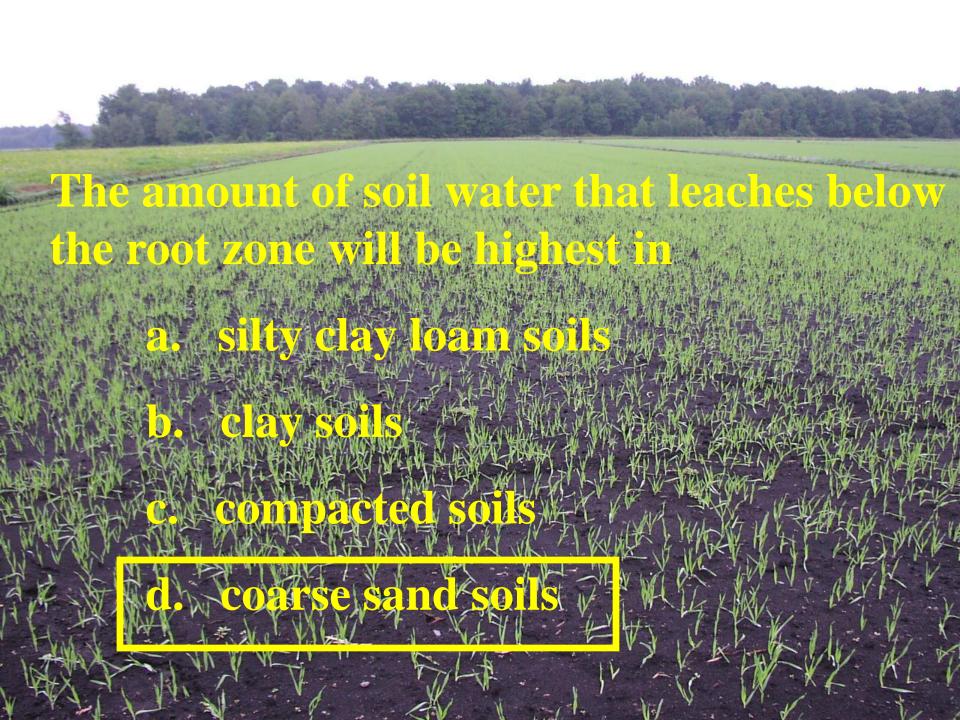


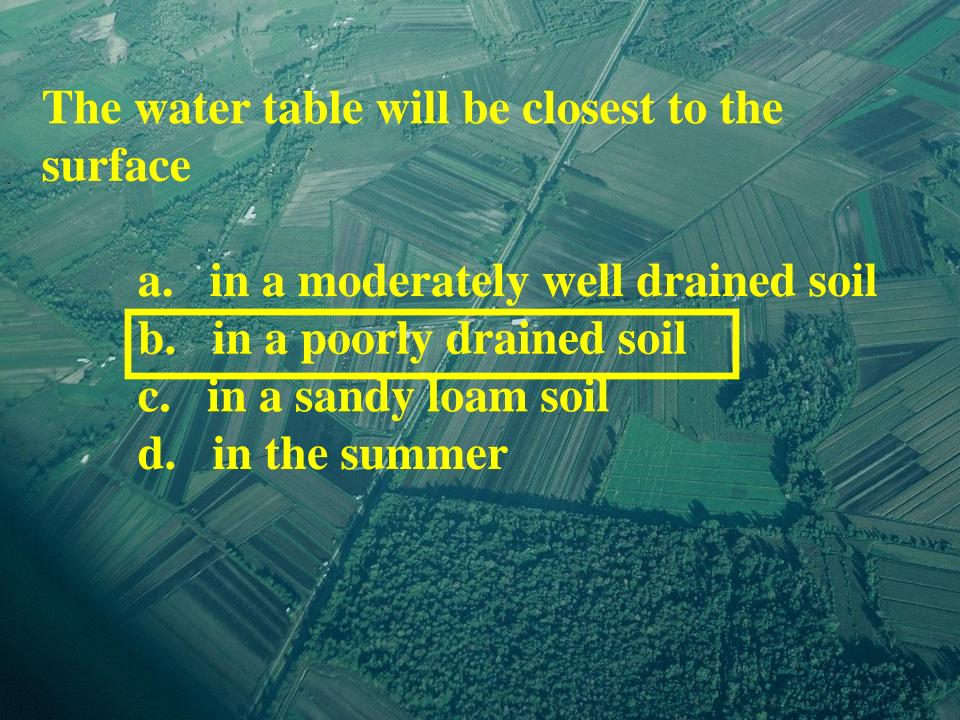




Runoff and leaching will most likely occur in the Northeast USA during

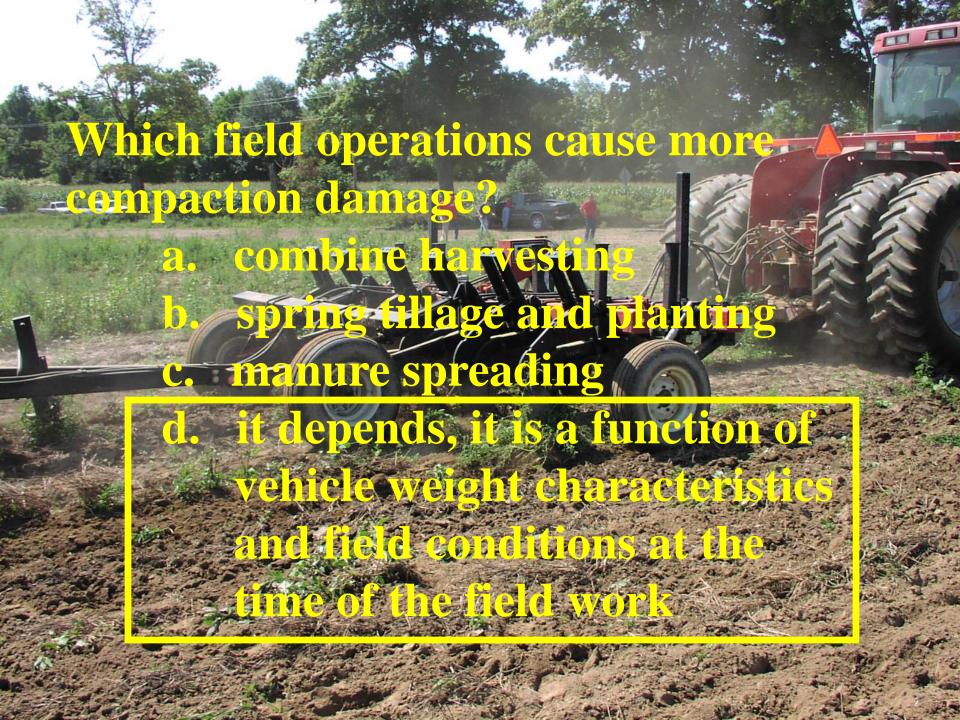
- a. March
- b. July
- c. September
- d. January

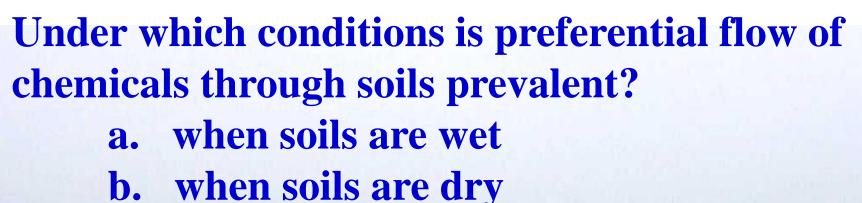




- A watershed, catchment, or drainage basin is
 - a. a place where a water supply is stored
 - b. a land area where water drains to a common outlet
 - c. a land area that supplies water to New York City
 - d. the highest area in the landscape

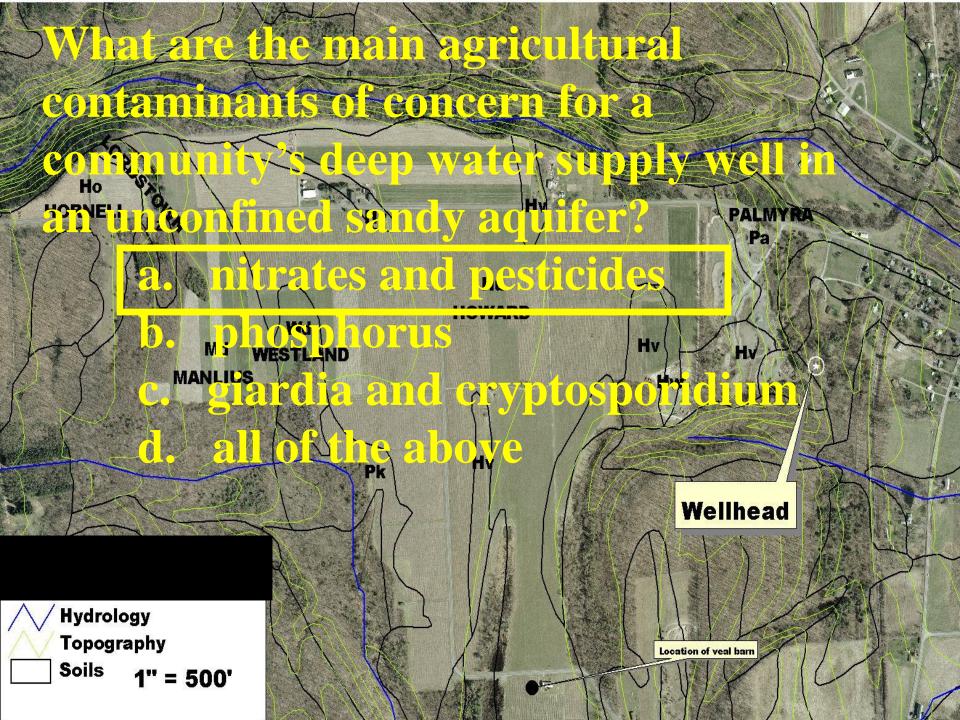




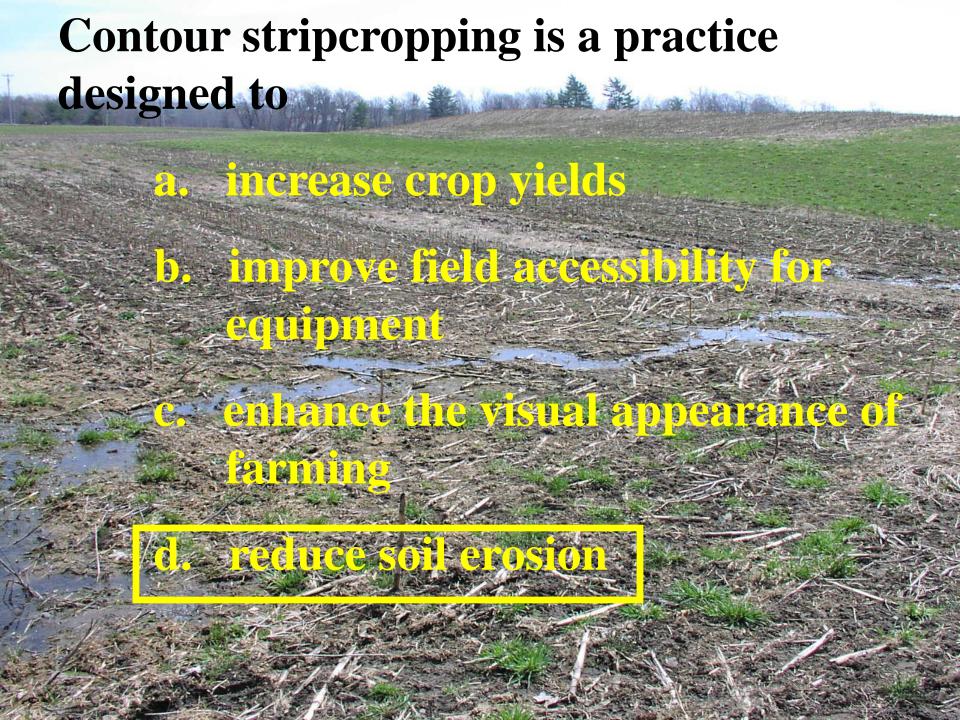


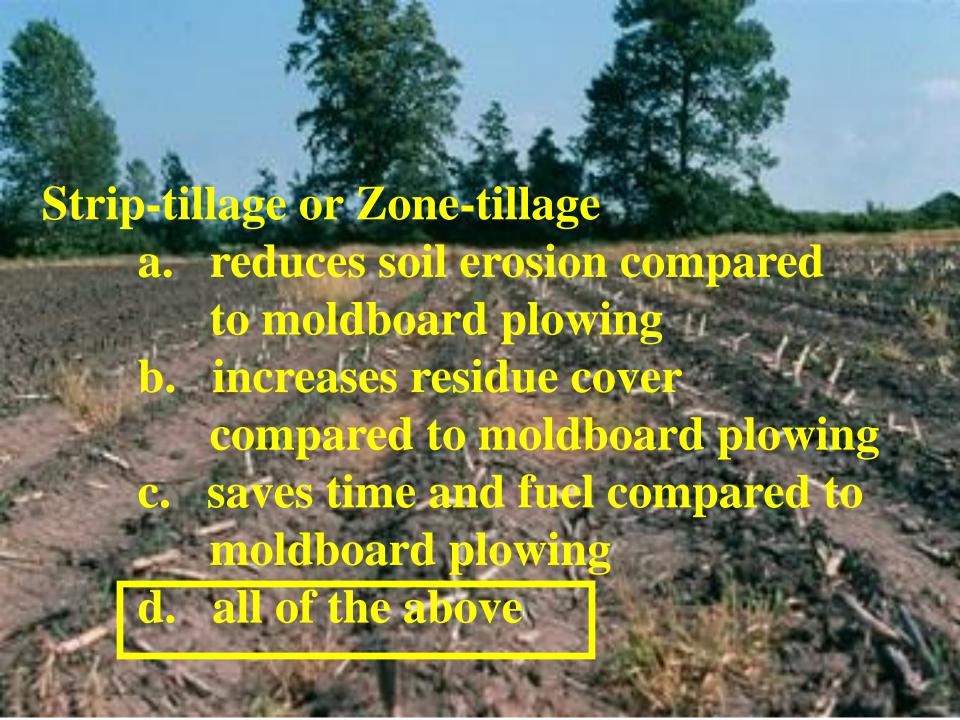
- c. when sons are dryc. when application is followed by
- c. when application is followed by intensive rainfall









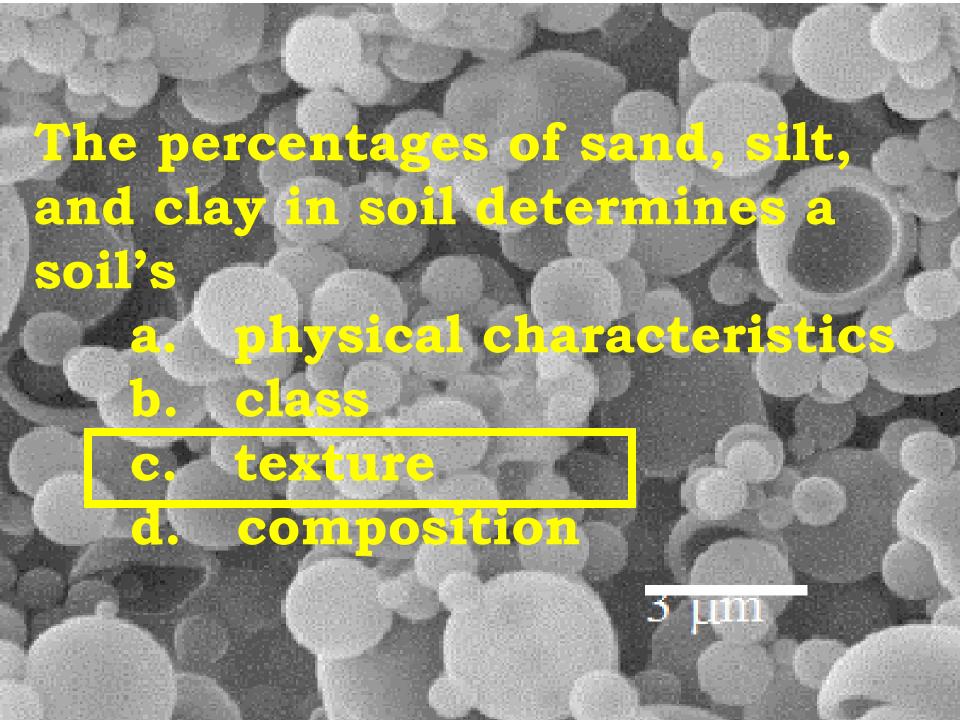


In the Northeast USA, biomass accumulation by cover crops is limited primarily by

- a. soil pH
- b. pest problems
- c. the growing season in corn based rotations
- d. soil drainage

A practice used to direct runoff away from a potential erosion problem area is a

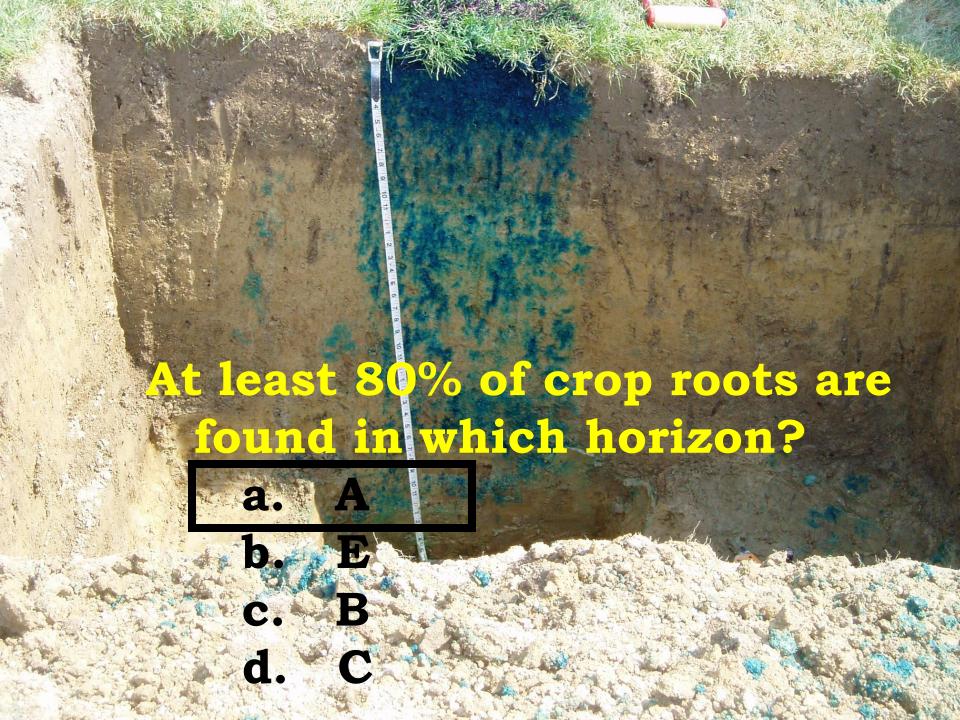
- a. buffer strip
 - b. waterway
 - c. diversion
 - d. all of the above

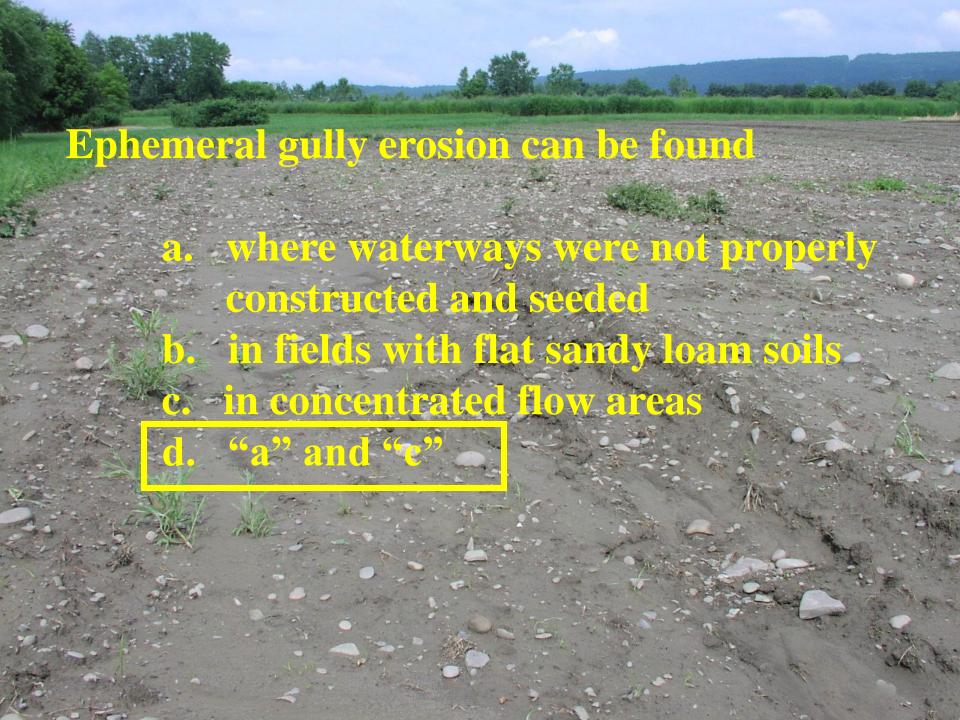




Soil water is unavailable to a growing crop when

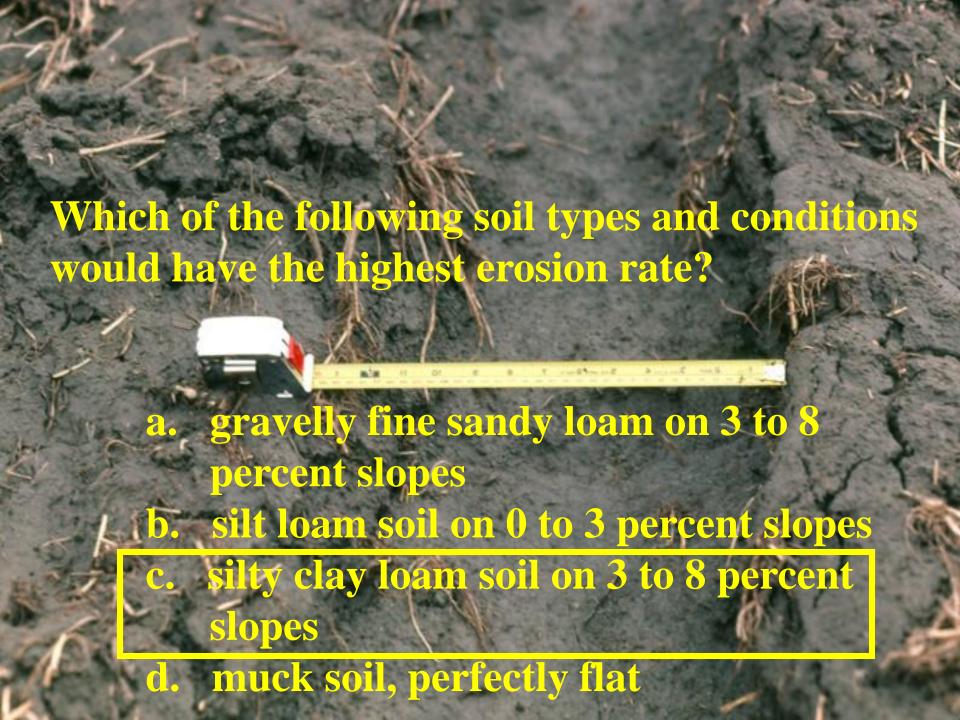
- a. a soil reaches its field capacity
- b. soil moisture levels drop below the wilting point
- c. the soil relative humidity drops below 45%
- d. the soil profile is totally saturated







- a. annual soil loss per acre the farmer can tolerate
- b. annual soil loss per acre that does not cause water quality impairments
- c. annual soil loss per acre that will not reduce the productivity of the soil
- d. all of the above



Which cropping system is most likely to induce higher soil erosion rates?

- a. corn silage for 4 years followed by4 years of hay
- b. corn grain for 4 years followed by
 4 years of hay
- c. continuous corn silage
 - d. corn grain for 2 years followed by 4 years of hay