

# QUICKIE-QUIZ

## Soils and their effects on turf growth

### Soil Texture Classification

Soil separate	Diameter mm	Particles/gm number	Surface area in 1g. sq. cm
stone	over 25	—	—
coarse gravel	25-5	1	—
fine gravel	5-2	30	—
very coarse sand	2-1	90	11
coarse sand	10-.5	720	23
medium sand	.5-.25	5,700	45
fine sand	.25-.1	46,000	91
very fine sand	.10-.05	722,000	227
silt	.05-.002	5,776,000	454
clay	below .002	90,260,853,000	8,000,000

- The number of natural soil types identified in United States is more than:
  - 70
  - 700
  - 7,000
  - 70,000
- Peat is a preferred soil additive because:
  - it improves nutrient retention
  - it deteriorates slowly
  - both of the above
- The ideal soil pH for growing plants is:
  - neutral
  - slightly acidic
  - slightly alkaline
  - strongly alkaline
- Besides neutralizing soil acidity, lime applications:
  - add calcium and magnesium
  - increase compaction
  - decrease soil salinity
  - all of the above
- Soil compaction under turf can extend as deep as:
  - one inch
  - four inches
  - one foot
- Most fertilizers tend to make soils:
  - more acid
  - more alkaline
  - neither
- Generally, saline soils develop because of:
  - adapted plant species
  - poor drainage
  - excessive traffic
  - all of the above
- Most sands are composed primarily of:
  - mica
  - feldspar
  - quartz
- Low oxygen supply through the soil to the plant can be caused by:
  - compaction
  - overwatering
  - both
- The dark color of topsoil is caused by the presence of:
  - earthworm casings
  - potassium
  - mineral matter
  - moisture
- In areas where earthworms are prevalent, rainfall penetrates the soil:
  - more rapidly
  - less rapidly
  - neither
- Thatch accumulation is favored in:
  - clayey soil
  - sandy soil
  - loamy soil

Source:

**Turf  
Managers'  
Handbook**

COMPREHENSIVE PRACTICAL INSTRUCTION FOR ALL TURF PROFESSIONALS

### ANSWERS:

1. c; 2. c; 3. b; 4. a; 5. b; 6. a; 7. b; 8. c; 9. c; 10. c; 11. a; 12. a