Unit: Soil Management

Name\_\_\_\_\_

Lesson 2: Using Soil Survey Manuals

Date	

## Evaluation

#### Circle the letter that corresponds to the best answer.

- 1. Where can soil survey manuals be obtained?
  - a. Local US post office
  - b. Soil and Water Conservation district
  - c. Farm Credit Service
  - d. US Soil Evaluation Center

#### Correct answer is b.

- 2. Soil maps for more detailed land use planning show the land using what type of pictures?
  - a. Aerial
  - b. Panoramic
  - c. Color
  - d. Topographic

# Correct answer is a.

# Correctly match the appropriate drainage class with the description of that class.

- **b** 3. Very porous; freely permeable for great depths
- **g** 4. Wet for many months of the year; mottling prominent throughout the profile; artificial drainage required for crop growth
- f 5. Slower internal water movement; more mottling further up the profile; artificial drainage suggested for alfalfa crop
- d 6. Wet almost every month of the year; usually gray in color with mottling on the surface; artificial drainage may be difficult to install but is required for crop growth
- e 7. Water and air move freely, but slower than other soils

- a. Well drained
- b. Excessively drained
- c. Somewhat poorly drained
- d. Very poorly drained
- e. Somewhat excessively drained
- f. Moderately well drained
- g. Poorly drained

- **c** 8. Surface is wet for many weeks throughout the year; mottling is prominent just below the surface; artificial drainage usually needed
- a 9. Most often sandy or intermediately textured soils; color is uniform except near the deep water table, where it becomes mottled

## Questions 10 and 11 are essay. Go to questions 12-19. Complete the following short answer questions.

- 10. What are the steps in locating property in a soil survey manual?
- 11. What is the difference between the permanent and temporary limitations used in determining a soil's uses? Give an example of each.

# Match the soil classification on the right with its description on the left.

b	12.	Requires moderate conservation practices	a.	Ι
h	13.	Mountainous areas	b.	II
e	14.	Prevents use of standard farm equipment due to limitations	c.	III
d	15.	Requires very careful management and/or special conservation practices		IV
a	16.	Very few limitations	e. f	v VI
g	17.	Very severe limitations		VI
c	18.	Requires special conservation practices with extra costs and effort	0	VIII
f	19.	Used for grassland, range, or wildlife due to severe limitations		

#### The rest are essay questions.

List potential problems affecting plant growth for each of these factors.

- 20. Erosion:
- 21. Permeability:
- 22. Soil texture: