



2010
State Agronomy CDE
Montana State University
Range Management
Please fill out "Exam 2/Team" section of the answer key

Please do not write on this test!

A local rancher has bought 15,000 acres of land near Valier, Montana. He wants you to estimate the approximate amounts of livestock he can run on his new property.

1. Which of the following is not a noxious weed?
 - A. Japanese brome
 - B. Leafy spurge
 - C. Spotted Knapweed
 - D. St. Johnswort

2. Rangelands include many riparian areas which are vital for:
 - A. Fish and wildlife habitat
 - B. Clean water
 - C. Flood control
 - D. All of the above

3. How many AUM's are present on his place?

The place is half thin silty with a similarity index of 50%
¼ is overflow along a creek bottom with a 78% similarity index.
¼ is finely clayey with a similarity index of 29%.

 - A. 4,000 total AUM's
 - B. 3,432 total AUM's
 - C. 3,787 total AUM's
 - D. 1,299 total AUM's

4. How many cows can he run for six months?
 - A. 631 cows
 - B. 572 cows
 - C. 667 cows

- D. 217 cows
5. How many sheep can he run instead of cows for that six months?
- A. 2,994 sheep
 - B. 8,220 sheep
 - C. 3,725 sheep
 - D. 3,155 sheep
6. How many yearling steers can he run for a full year?
- A. 5,410 steers
 - B. 5,714 steers
 - C. 4,902 steers
 - D. 1,855 steers
7. How many mule deer can live on this ranch without any cows present for the whole year?
- A. 4,330 mule deer
 - B. 13,333 mule deer
 - C. 12,623 mule deer
 - D. 9,495 mule deer
8. Plant Name: _____
9. Is this plant overgrazed? TBD
- A. Yes
 - B. No
10. Plant Name: _____
11. Is this plant an increaser? TBD
- A. Yes
 - B. No
12. What is this plant? TBD
- A. Shrub
 - B. Forb
 - C. Half-shrub
 - D. Grass
13. What is the state flower of Montana?

- A. Prickly Pear
- B. Indian Paintbrush
- C. Bitterroot
- D. Sunflower

14. The Homestead Act of 1862...

- A. Allowed for the grazing of cattle on public lands
- B. Provided the transfer of 160 acres to each homesteader after a fee or term of residence
- C. Established government agencies
- D. Was established to stop the injury (erosion, overgrazing, etc.) to public lands