

Team (County): _____

Team Members

Team Member ID #

2009 NC State 4-H Hippology Senior Team Problem KEY (200 points)

You have 5 minutes to prepare and 10 minutes to write your response as a team (15 minutes total)

You have just acquired a two (2) year old thoroughbred mare (1,000 lbs) with a body condition score of 2.5 at a moderate work level. She is currently being fed a diet consisting of one (1) quart of oats (approximately 1 lb) and one (1) flake of orchardgrass hay (4 lbs) twice a day (a total of 10 lbs of feed per day). What are some possible reasons for her to have a body condition score of 2.5 and how will you change her diet to better fit her needs? Please consider the average nutrient content of the feedstuffs currently being fed versus the moderate work level of the thoroughbred mare. Additionally, please indicate the ideal body condition score you wish to achieve and how you would feed your recommended diet to accomplish that goal. No math required but please elaborate on your decisions. Partial credit will be awarded.

1. Perform a feed analysis on the hay and grain to determine the quality of the orchardgrass hay and oats
2. 8 lbs of hay is considered too low, should be approximately 1.5% of body weight
3. oats are a low energy feed, and 2 lbs is very little, so you can either switch to a higher energy concentrate feed to increase energy intake (list examples) OR feed an increased volume of oats (if oats are continued to be fed, a trace mineral/vitamin premix supplement should be added to the diet in addition to an energy additive (ie: fat source))
4. identify the ideal body condition score (5 to 6.5)
5. check the health status of the horse, including current and past worming schedules, dental care, vaccination records, etc. If no records are available, contact a veterinarian to do all of the above and assume those care items had not been done previously
If they do calculate a feed volume increase, use this example for increasing oat intake volume:
change in body condition score is $6 - 2.5 = 3.5$
to increase intake by 20%, then $3.5 \times 0.20 \times 2\text{lbs} = 1.4\text{lb increase}$
current 2 lbs + 1.4 lb increase = feed 3.4 lbs oats
This formula can be used for other feedstuffs.

Please use the back of this page if additional space is needed to complete your answer.