

Body Condition Scoring Guide

Striking a Balance

Nutritional management plays a key role in maintaining maximum performance and productivity of horses. One tool, body condition scoring, can be easily adapted and utilized by all owners to manage the proper timing and the amount and type of supplemental feed needed to maximize performance. Body Condition Scoring (BCS) is a classification system used to determine relative fatness or body condition of horses. The BCS system was developed at Texas A & M University (Henneke and co-workers, 1983) to visually quantify the amount of body fat on a horse. Body condition only refers to stored fat, not to protein, vitamin, or mineral status of the horse. The amount of fat on a horse's body affects many physiological functions, such as reproductive efficiency and work tolerance. The balance between energy intake and energy expenditure is reflected in a horse's body condition. The scoring system can be used for all breeds and classes of horses. Some variation in normal patterns of fat storage exists among different breeds of horses. For instance:

- Thoroughbreds have higher withers and lighter muscling than stock breeds.
- American Saddlebreds can have large deposits of fat on the neck and tailhead, yet the ribs show.

Best Condition

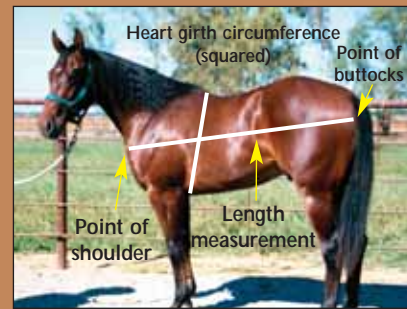
Horses are ranked on a scale of 1 to 9, with 1 being poor and 9 being extremely fat. Horses should be maintained at condition scores of 5-7 for optimum health and performance. Optimum BCS for working horses is 5-6, and optimum BCS for broodmares is 6-7. The difference in the optimum scores is that reproductive efficiency is better when broodmares are maintained at scores of 6-7. Broodmares that have foaled need some fat stores due to the high nutritional requirements of lactation and recovery from foaling. It is more difficult to put needed weight on a lactating broodmare versus keeping the broodmare in optimum body condition.

Horses maintained at BCS of 4 or below may suffer from decreased immunity, impaired reproductive efficiency, and lower work tolerance. Maintaining horses at BCS of 8-9 is not economically justified and predisposes them to colic, laminitis, and founder. Overly fat horses also have poorer reproductive performance and decreased work performance.

How to Score

- Visually observe the horse's side profile from a distance of 15-20 feet. This will usually give one a good idea of the general condition of the horse — too thin, too fat, about right.
 - Horses with noticeable ribs will score 4 or lower.
 - If the ribs are not noticeable, the horse will score 5 or greater.
 - Horses with long or thick hair coats will need closer examination by feeling the rib area. Be sure to distinguish between fat and muscle bulk/tone.
- Next, move close to the horse. Observe and feel for fat at the back, ribs, neck, shoulders, withers, and tailhead, comparing the horse's condition to the descriptions listed on the Horse Body Condition Scorecard (see reverse side). Figure 1 shows areas on the horse to evaluate for fat coverage.
- If a horse meets most, but not all criteria for a score, use 0.5 point increments. For example: if a horse meets most criteria for a BCS of 5, and some criteria for a score of 6, a BCS of 5.5 should be assigned.

Make feed adjustments based on condition score. A horse maintained at optimum body condition will achieve better reproductive and performance efficiency.

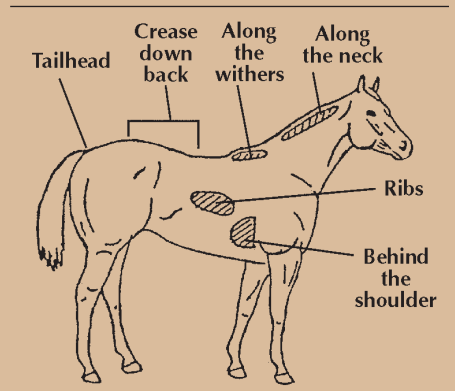


Estimating a Horse's Body Weight

Mature horse: $(\text{Heart girth}^2 \times \text{Length}) \div 330 = \text{Weight in lb}$
 Yearling: $(\text{Heart girth}^2 \times \text{Length}) \div 303 = \text{Weight in lb}$
 Weanling: $(\text{Heart girth}^2 \times \text{Length}) \div 270 = \text{Weight in lb}$

- Measure in inches the heart girth just behind the withers and elbows
- Measure in inches from point of shoulder to point of buttocks
- This measurement has a 0.90 correlation with actual weight

FIGURE 1



For Better Health and Performance, Follow these Key Management Suggestions

- Feed according to class of horse and body condition
 - ✓ Consider age, weight, activity level.
- Provide unlimited access to clean, fresh water
 - ✓ A 1,000 lb horse at maintenance will consume approximately 5-10 gallons daily.
- Maximize forage consumption
 - ✓ Forage should be the major component of the feeding program.
 - ✓ Feed good-quality hay, free of mold and dust.
 - ✓ Feed a minimum of 1.5% of the horse's body weight daily as forage.
- Measure feed by weight, not by volume
 - ✓ All concentrate feeds do not weigh the same.
- Feed concentrates safely
 - ✓ Limit concentrates to 6 lb daily and 3 lb per meal for an average-sized horse.
- Make feed changes gradually over a 7-10 day period
- Manage feeding times/rates
 - ✓ Feed a minimum of 2-3 meals/day for stalled horses.
 - ✓ Monitor daily consumption of feeds.
- Routinely exercise stalled horses

Body Condition Scoring



Your Horse's Body Condition Score: _____

Horse's age _____

Activity level _____

Type of forage fed:

Legume Grass Mixed

For better health and performance, routinely evaluate the body condition of your horse. A horse's body condition is a reflection of the balance between energy intake and energy expenditure.

- Too much energy intake results in greater body stores of fat.
- Too little energy intake results in little or no storage of body fat.

Suggested FORAGE FIRST Program:

Product	Feeding Rate
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

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Horse Body Condition Scorecard



SCORE	Back	Ribs	Neck	Shoulder	Withers	Tailhead
Poor 1	very prominent	very prominent vertebrae	extremely thin	very prominent	very prominent	very prominent
Description:	The horse is emaciated. The spinous processes (backbone), ribs, tailhead, and hooks and pins all project prominently. The bone structures of the withers, shoulders, and neck are easily noticeable, and no fat can be felt anywhere.					
Very Thin 2	prominent vertebrae	prominent	very thin	very thin	very thin	very thin
Description:	The spinous processes are prominent. The ribs, tailhead, and pelvic bones stand out, and bone structures of the withers, neck, and shoulders are faintly discernable.					
Thin 3	vertebrae fat 1/2 way up	see easily	thin	thin	thin	prominent
Description:	The spinous processes stand out, but fat covers them to midpoint. Very slight fat cover can be felt over the ribs, but the spinous processes and ribs are easily discernable. The tailhead is prominent, but individual vertebrae cannot be seen. Hook bones are visible but appear rounded. Pin bones cannot be seen. The withers, shoulders, and neck are accentuated.					
Moderately Thin 4	negative crease	can see outline of ribs	moderately thin	moderately thin	moderately thin	some fat
Description:	The horse has a negative crease along its back and the outline of the ribs can just be seen. Fat can be felt around the tailhead. The hook bones cannot be seen and the withers, neck, and shoulders do not look obviously thin.					
Moderate 5	level (no crease)	cannot see, easily feel	blend into shoulder	blend smoothly into body	rounded	moderate fat
Description:	The back is level. Ribs cannot be seen but can be easily felt. Fat around the tailhead feels slightly spongy. The withers look rounded and the shoulder and neck blend smoothly into the body.					
Moderately Fleshy 6	slight crease	cannot see, can feel	little fat	little fat	little fat	moderate fat
Description:	There may be a slight crease down the back. Fat around the tailhead feels soft and fat over the ribs feels spongy. There are small deposits along the sides of the withers, behind the shoulders, and along the sides of the neck.					
Fleshy 7	crease	barely feel	average fat	average fat	average fat	fleshy fat
Description:	There may be a crease down the back. Individual ribs can be felt, but there is noticeable fat between the ribs. Fat around the tailhead is soft. Fat is noticeable in the withers, the neck, and behind the shoulders.					
Fat 8	obvious crease	difficult to feel	fat	flush behind	fat filled	very soft fat
Description:	The horse has a crease down the back. Spaces between ribs are so filled with fat that the ribs are difficult to feel. The area along the withers is filled with fat, and fat around the tailhead feels very soft. The space behind the shoulders is filled in flush and some fat is deposited along the inner buttocks.					
Extremely Fat 9	very obvious crease	cannot feel (patchy fat)	bulging fat	bulging fat	bulging fat	bulging fat
Description:	The crease down the back is very obvious. Fat appears in patches over the ribs and there is bulging fat around the tailhead, withers, shoulders, and neck. Fat along the inner buttocks may cause buttocks to rub together, and the flank is filled in flush.					

BCS adapted from Henneke, 1983. Description source: Texas A&M University.

For custom feeding suggestions to help you maintain or change your horse's body condition score, call the FORAGE FIRST® EQUINE NUTRITION HELPLINE at 1-800-680-8254.