Normal Physiological Parameters for Equine

Physiological Parameters	Ranges	Additional Comments
Temperature (°C)	37.2 – 38.3	 → Apply lubricant to the anus → Measure using a thermometer → Move the tip of the thermometer to the side of the colon wall to avoid getting the temperature of the faeces
Pulse (beats/min)	30 – 40	 → Listen the heartbeat using a stethoscope and count the beats (beats in 15 seconds X 4) → Can also place your fingers against the facial artery just under the jaw bone behind the cheek for the facial pulse
Respiration (breaths/min)	10 – 20	 → Measure by counting either inhalation or exhalation. → Can be done by looking at the lung region of the horse or listening with a stethoscope
Capillary Refill Time (seconds)	Less than 2 – 3	 → Press your thumb against the gum and remove. → Count how long it takes for the blood to return to that area

Body Weight

The weight if a horse is obtained by the following ways:

1) Weight Scale:

➤ Most accurate measurement

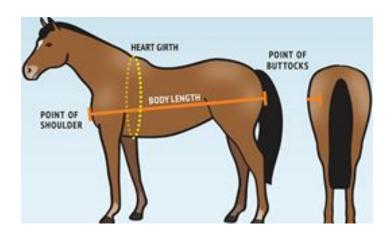
2) Weight Tape:

- > A simple and effective way to estimate weight with minimal effort.
- ➤ Wrap the tape around the girth of the horse, directly below the elbow, overlapping the ends of the tape and read the resultant weight.
- Take the reading with the tape snugly in place when the horse exhales.
- Accuracy is dependent on the user, size of withers, breed and age.

3) Girth and body measurements:

➤ Use the girth measurement together with the length measurement in the following calculation:

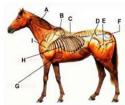
Weight = $(girth\ measurement\ in\ cm)2\ x\ (length\ measurement\ in\ cm)$ 11,900



Body Condition Score (BCS)



BODY CONDITION **SCORING** CHART

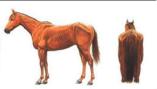


Areas of Emphasis for **Body Condition Scoring**

- Thickening of the neck
- Fat covering the withers Fat deposits along backbone Fat deposit on flanks
- rat deposit on flanks
 Fat deposits on inner thigh
 Fat deposits around tailhead
 Fat deposit behind shoulder
 Fat covering ribs
 Shoulder blends into neck

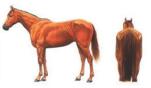
Animal extremely emaciated; spinous processes, ribs, tailhead, tuber coxae, and tuber ischii projecting prominently; bone structure of withers, shoulders, and neck easily noticeable; no fatty tissue can be felt.

 Very Thin
 Animal emaciated; slight fat covering over base of spinous processes; transverse processes of lumbar vertebrae feel rounded; spinous processes, ribs, tailhead, tuber coxae, and tuber ischii prominent; withers, shoulders, and neck structure faintly discernable.



3 Thin

Fat buildup about halfway on spinous pro-cesses; transverse processes cannot be felt; slight fat cover over ribs; spinous pro-cesses and ribs easily discernable; tailhead prominent, but individual vertebrae cannot be identified visually; tuber coxae appear rounded but easily discernable; tuber ischii not distinguishable; withers, shoulders, and neck accentuated.



4 Moderately Thin

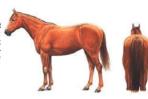
Slight ridge along back; faint outline of ribs discernable; tailhead prominence depends on conformation, fat can be felt around it; tuber coxae not discernable; withers, shoul-ders, and net not obviously thin.



5 Moderate

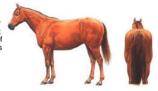
Decrate

Back is flat (no crease or ridge); ribs not visually distinguishable but easily felt; fat around tailhead beginning to feel spongy; withers appear rounded over spinous processes; shoulders and neck blend smoothly

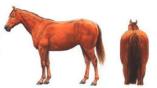


6 Moderately Fleshy

May have slight crease down back; fat over ribs fleshy/spongy; fat around tailhead soft; fat beginning to be deposited along sides of withers, behind shoulders, and along sides of neck.



May have crease down back; individual ribs can be felt, but noticeable filling between ribs with fat; fat around tailhead soft; fat depos-ited along withers, behind shoulders, and along neck.



Crease down back; dificult to feel ribs; fat around tailhead very soft; area along withers filled with fat; area behind shoulder filled with fat; noticeable thickening of neck; fat deposited along inner thighs.



9 Extremely Fat

Obvious crease down back; patchy fat appearing.



Henneke et al., 1983

References

1) Practice FVE. Body Condition Score-Chart [Internet]. Fox Valley Equine. 2016 [cited 2020Oct4]. Available from:

https://www.foxvalley equine.com/body-condition-score-chart/