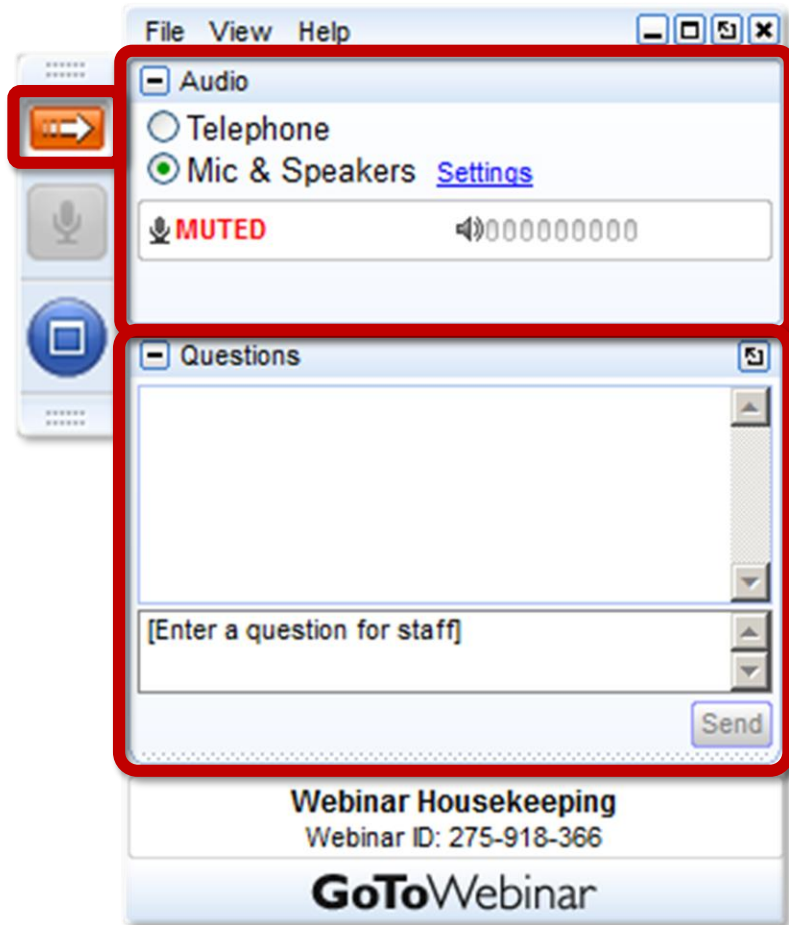


When Quality Hay Is In Short Supply, What Can I Feed My Horse?



Standlee
PREMIUM WESTERN FORAGE®

“Nutrition is the key to success”



Your Participation

Open and close your control panel

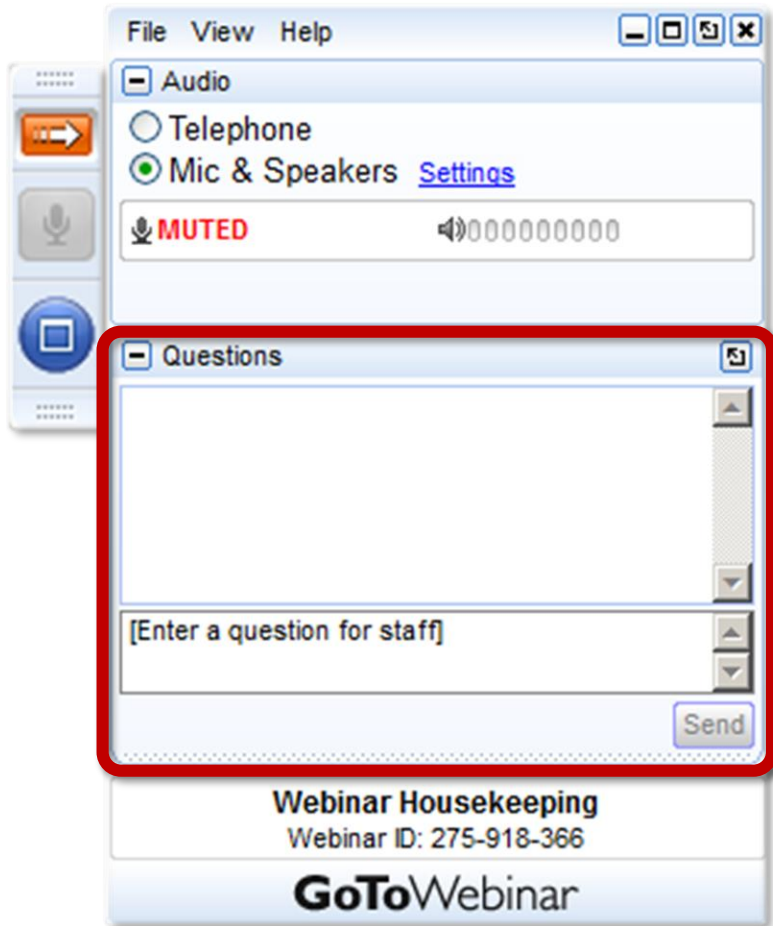
Join audio:

- Choose **Mic & Speakers** to use VoIP
- Choose **Telephone** and dial using the information provided

Submit questions and comments via the Questions panel

Note: Today's presentation is being recorded and will be provided within 48 hours.

“Nutrition is the key to success”



Your Participation

- Please continue to submit your text questions and comments using the Questions panel

For more information, please contact kstarr@standleeforage.com.

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When Quality Hay Is In Short Supply, What Can I Feed My Horse?



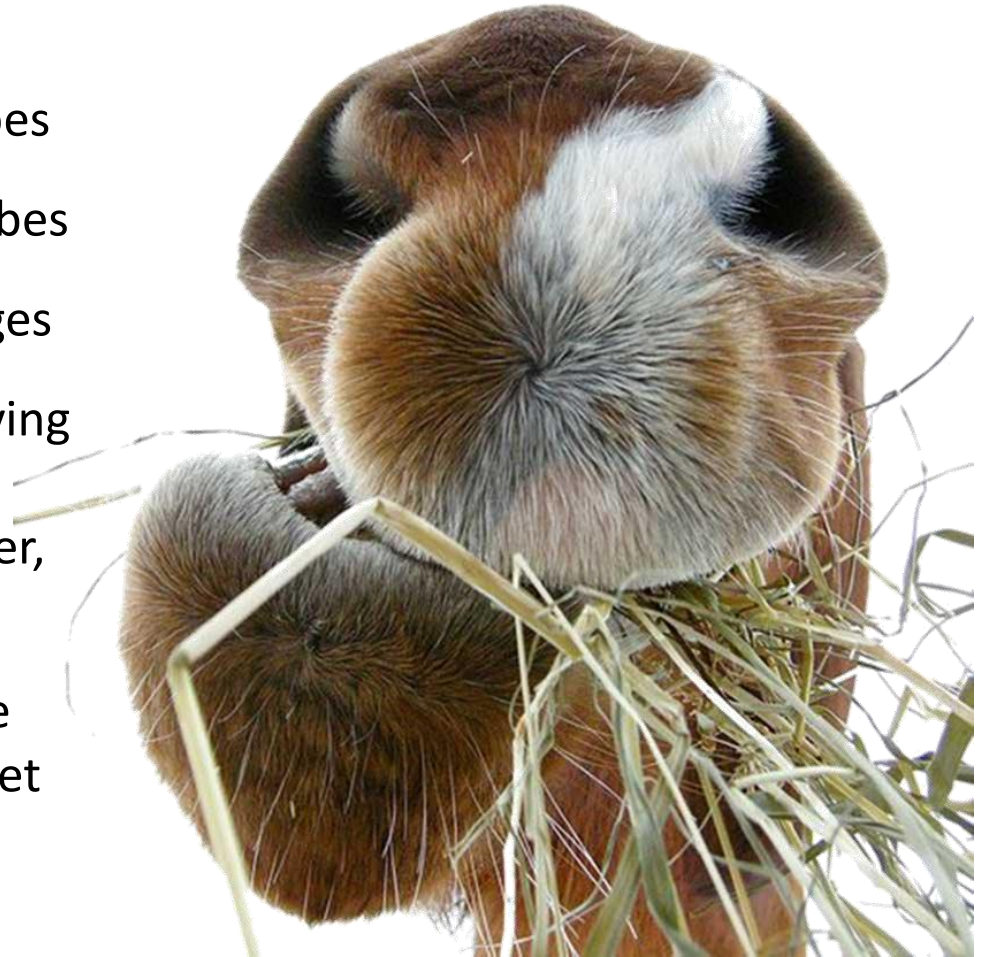
DR TANIA CUBITT
PERFORMANCE HORSE NUTRITION



OUTLINE

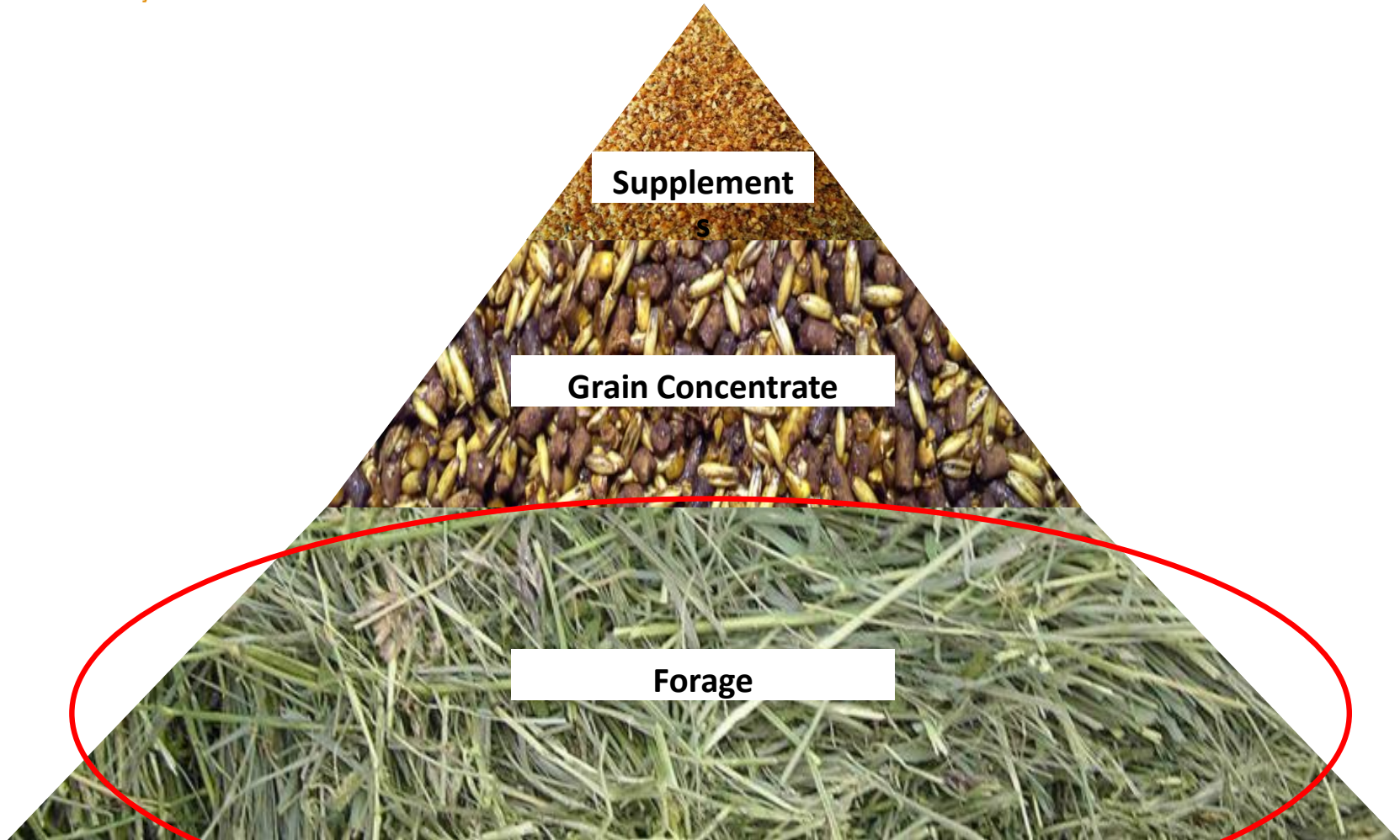
“Nutrition is the key to success”

- Importance of forage
- What are forage pellets & cubes
- How it’s made: pellets and cubes
- Pros and cons of bagged forages
- When to add to the diet – having a back-up plan when disaster strikes (i.e. fire, natural disaster, etc.)
- How to confidently add forage alternatives to your horse’s diet



HORSE FOOD PYRAMID

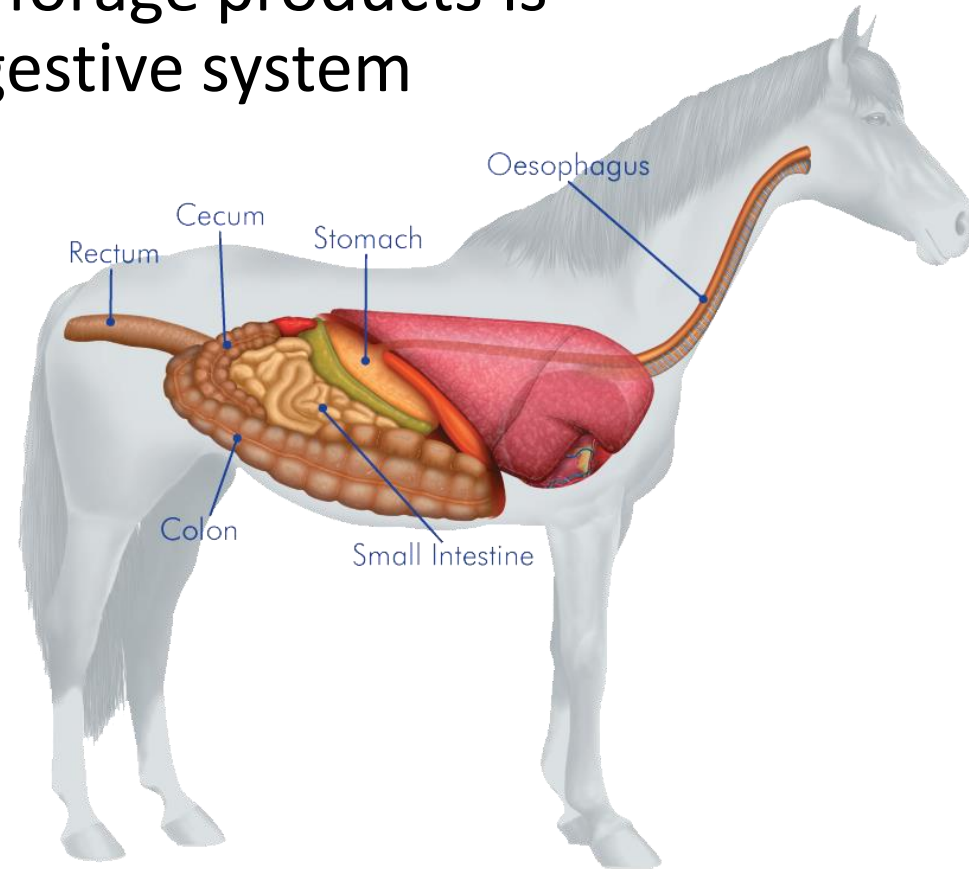
"Nutrition is the key to success"



BENEFITS OF FORAGE

“Nutrition is the key to success”

- Fiber from pasture, hay or forage products is necessary for a healthy digestive system
- Horses are anatomically designed to digest and utilize fiber - 65% of digestive capacity dedicated to fiber digestion



FORAGE - AMOUNT

“Nutrition is the key to success”

- **Absolute minimum** = 1% of B.W.
1000 lb horse = 10 lbs forage (DM)
- **Weight loss** = 1.2% of B.W. 1000 lb horse = 102 lbs forage (DM)
- **Recommended minimum** = 1.5% of B.W. 1000 lb horse = 15 lbs forage (DM)
- **Normal forage intake** = 1.8 to 2.2% of B.W.
- **Maximum intake** = 3 to 3.5% of B.W.



NOT ENOUGH FORAGE

“Nutrition is the key to success”

- Can result in
 - Hindgut acidosis
 - Colic
 - Gastric ulcers
 - Cribbing
 - Wood chewing
 - Behavior issues
 - Weaving, aggression



BENEFITS OF FORAGE

“Nutrition is the key to success”

- Forage provides a slow continuous intake of fiber
 - “Trickle Feeding”
 - Stomach designed for small continuous meals
 - Chewing of fiber helps prevent ulcers



BENEFITS OF FORAGE

“Nutrition is the key to success”

- Pasture provides opportunity for exercise
 - 24 hr = 8-9.5miles
 - 7 hr = 2.5-3 miles
 - Behavior?
- Pasture provides socialization
 - Manners



HOWEVER.....

“Nutrition is the key to success”

- **Most Important Dietary Ingredient - Forage and Pasture**

- Pasture is unreliable
 - Drought
 - Seasonality
 - Availability

- **FORAGE IS CRITICAL**



HOW MUCH HAY?

“Nutrition is the key to success”

- How much hay will your horse need this winter?
- 2.0% BW—1000lb horse = 20lbs per day
- 5 months of winter = 150 days
- 20lbs x 150 days = **3000lbs**
or **1.5 tons!!!!**



What are Forage Pellets & Cubes?



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PHYSICAL FORMS OF FORAGE

“Nutrition is the key to success”

- Conventional baled forage
- Compressed bales
- Forage cubes
- Forage pellets
- Chopped forage
- What is the nutritional difference between forms?



HOW IT'S MADE: PELLETS AND CUBES



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MECHANICAL PROCESSING

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- Baled forage to compressed forage
 - requires squeezing and cutting
- Baled forage to cubes
 - requires coarse grinding, heat, steam, bentonite, pressure
- Baled forage to pellets
 - requires fine grinding, heat, steam, pressure
- Baled forage to chop
 - requires coarse grinding + additives (molasses or oil)



POLL QUESTION

"Nutrition is the key to success"



MECHANICAL PROCESSING

“Nutrition is the key to success”

- Compressing, grinding, pelleting, cubing and chopping

→ **Does not change digestibility**

- Good quality 2nd cut alfalfa (same forage) has identical digestion in any form
- Why – hindgut digestion
- How digestible is good forage?
50% or less



BAGGED FORAGES



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WHY PROCESS FORAGE?

“Nutrition is the key to success”

- Convenience
 - Easy to feed
 - Easy to haul
- Consistent product
- Endless supply
- Less storage space
- Less waste
- Certified noxious weed free options



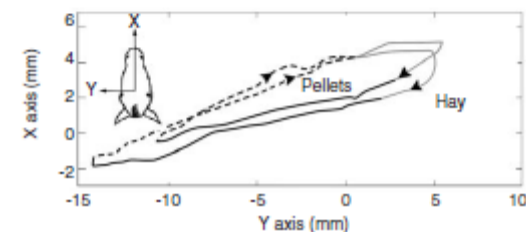
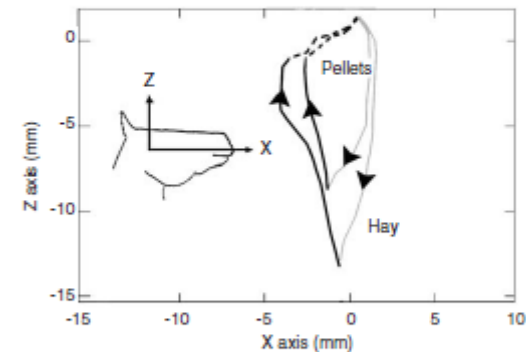
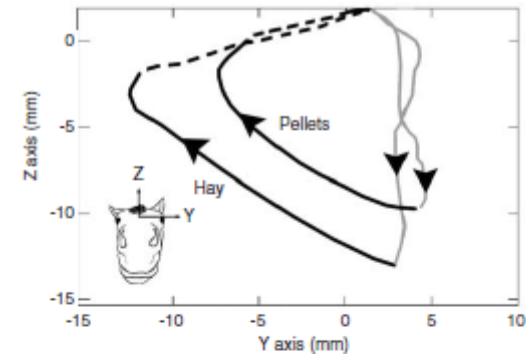
DIGESTIVE FUNCTION - TEETH

“Nutrition is the key to success”

- 1100lb horse
 - 40mins & 3400 chews per 2.2lb of hay
 - 20mins & 850 chews per 2.2lbs of pellets

Bonin et al., *Comparison of mandibular motion in horses chewing hay and pellets*. Equine vet. J. (2007) 39 (3) 258-262

- Mandibular motion is greater when chewing forage than when chewing pellets
- Gobel and Duffner (1954) noted that overgrowths could be reduced by a high roughage diet, but their development was encouraged by feeding a high concentrate diet



WHEN TO ADD?



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WHO NEEDS IT?

“Nutrition is the key to success”

- Weight gain
- Poor teeth
- Post colic surgery
- Hind gut ulcers



POLL QUESTION

“Nutrition is the key to success”



HOW TO ADD?



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HOW DO I FEED IT?

“Nutrition is the key to success”

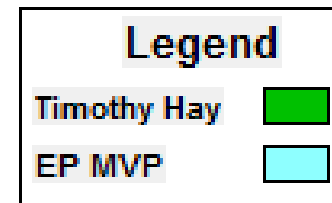
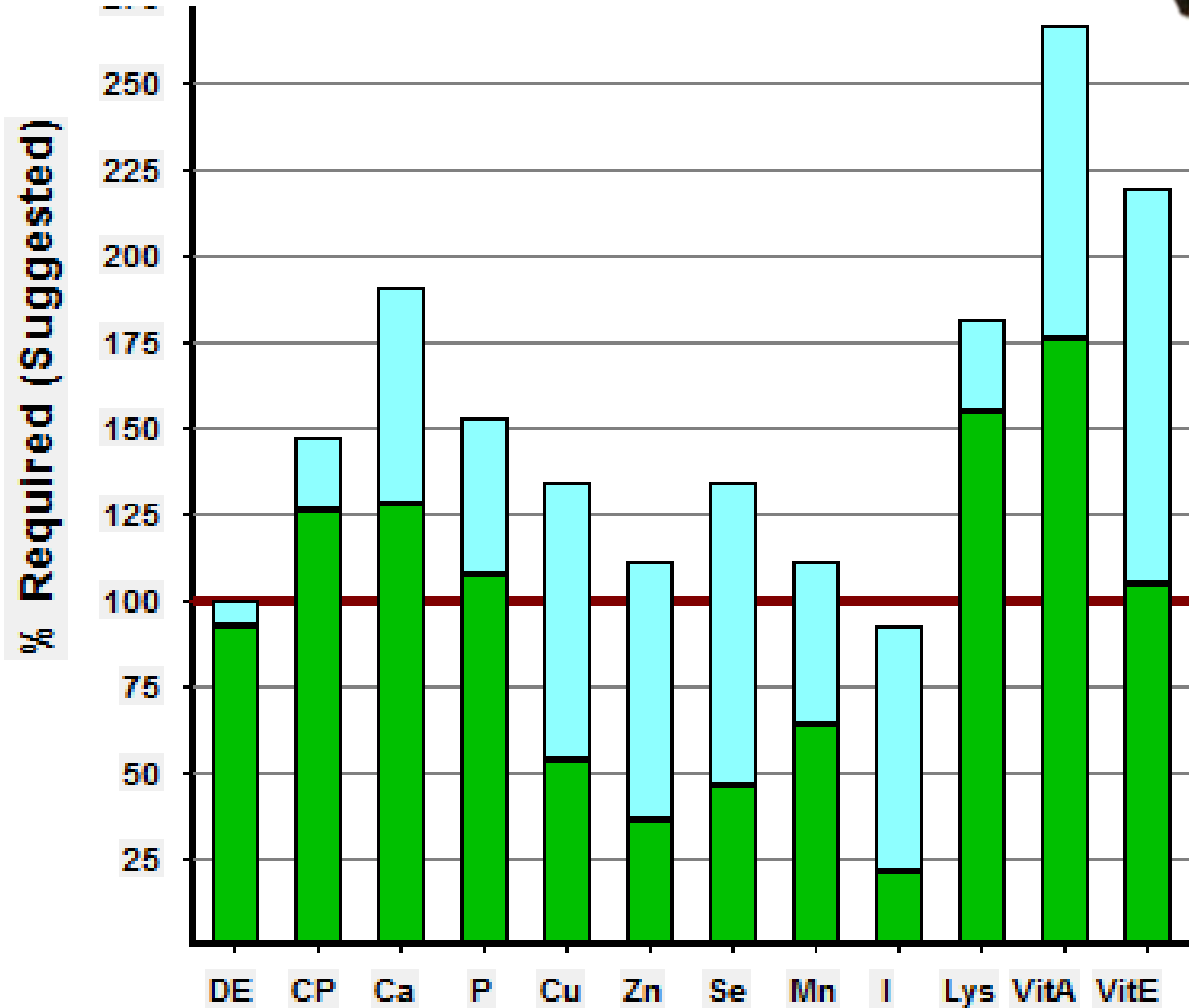
- Typically soaked
 - Improves palatability
 - Decreases rate of intake
 - Hydrates GI tract
- 2:1 – Water : Forage pellets/cubes
- 15 mins to 2hrs



HOW TO ADD



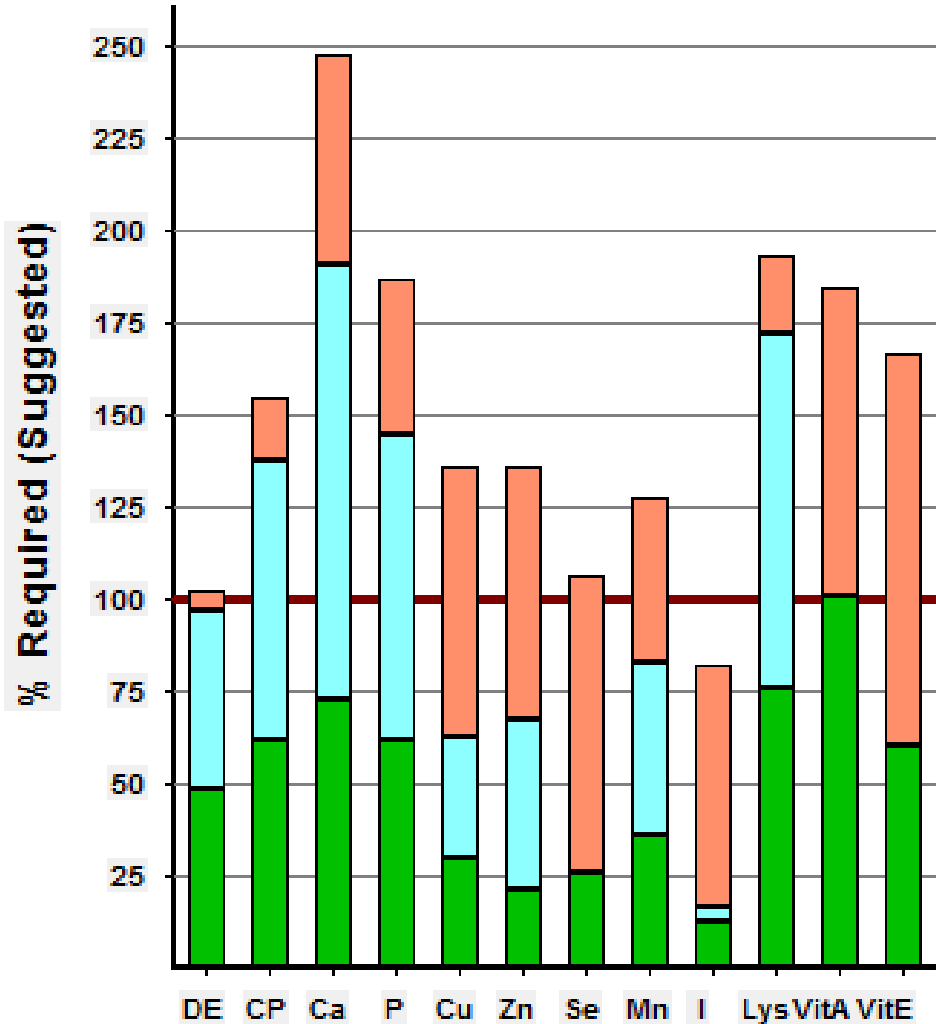
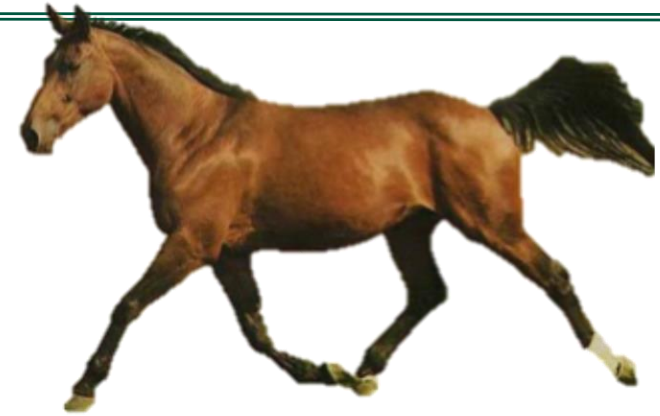
"Nutrition is the key to success"



1100lbs – no work
17lbs grass forage
1.5lbs ration balancer

NOT ENOUGH HAY

"Nutrition is the key to success"

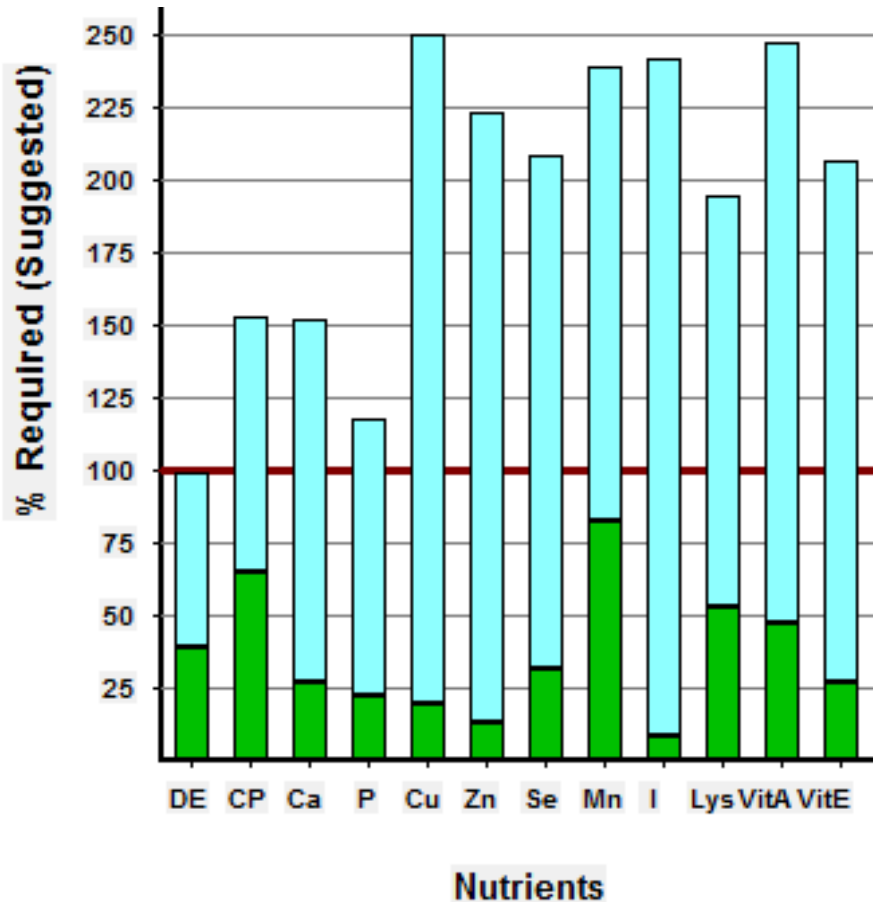


**1100lbs – no work
10lbs grass forage
7lbs SPWF timothy pellets
1.5lbs ration balancer**

POOR QUALITY HAY



"Nutrition is the key to success"

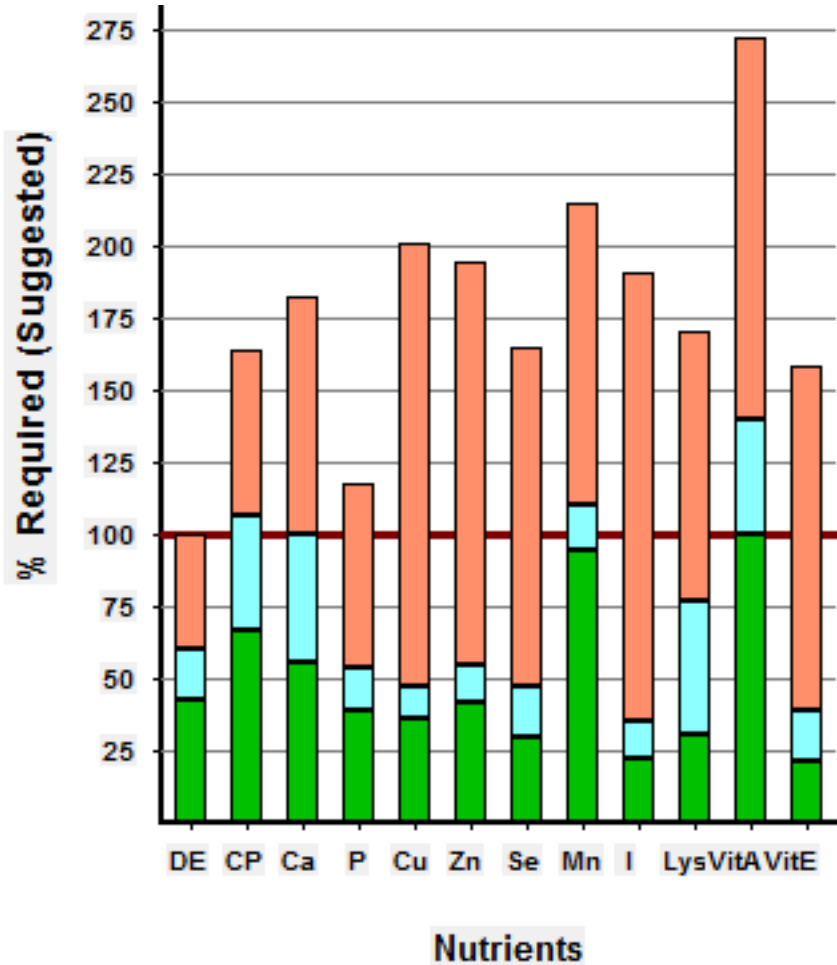


Thoroughbred
 Body Weight 1100lbs
 Intense Exercise – exercise done at high speed
 Poor quality hay – 20lbs
 EP East Coast race – 15lbs

INCREASING THE QUALITY OF FORAGE



“Nutrition is the key to success”



Thoroughbred

Body Weight 1100lbs

Intense exercise – exercise done at high speed

Premium grass forage – 15lbs

SPWF alfalfa cubes – 5lbs

EP East Coast Race – 10lbs

HAY SHED

“Nutrition is the key to success”

- Fire
- Flood
- Mold
- Rodent Damage



- If switching from grass forage to grass pellets
- If switching from grass forage to alfalfa pellets/cubes

HAY THERE!

WHICH PELLETS WOULD YOU CHOOSE FOR YOUR HORSE?



TYPICAL COMPETITOR ALFALFA PELLETS



STANDLEE PREMIUM ALFALFA PELLETS

VS

QUESTIONS?



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Thank you for joining us!

For follow-up questions, please contact our customer relations:

1-800-398-0819

customerservice@standleeforage.com

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