## Horse Management 101

Carrie Swanson
Extension Agent, Albemarle County



## Horse Management...

(is not a 30 minute subject)

- Animal considerations
- Land considerations
- Feeding & Nutrition
- Fencing & Shelter
- Manure management
- Emergency planning
- Professional support



### Animal Considerations / Horse Evolution

- Grazing animals large open spaces
  - √ Forage = majority of diet
  - ✓ Require exercise
- Herd animals
  - ✓ Need companionship







# Equine Nutrition In a nutshell:

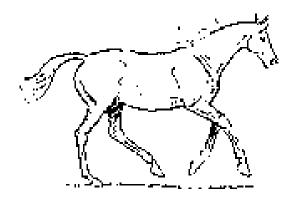
- Evolved eating forage...
- Time in foregut vs. time in hindgut
- Small stomach, no gal bladder = small meals
- Wild horses don't have ulcers...
- A horse is not a cow design flaw
- Take home message:
   Grass and hay are the
   MOST important part of
   your horse's diet!!

Horse appetites (and needs) are not created equal...



### How do I know what my horse needs?

- Take into account:
  - Age / Production stage
  - Breed
  - Activity Level
  - Environmental Factors
  - Individual variation

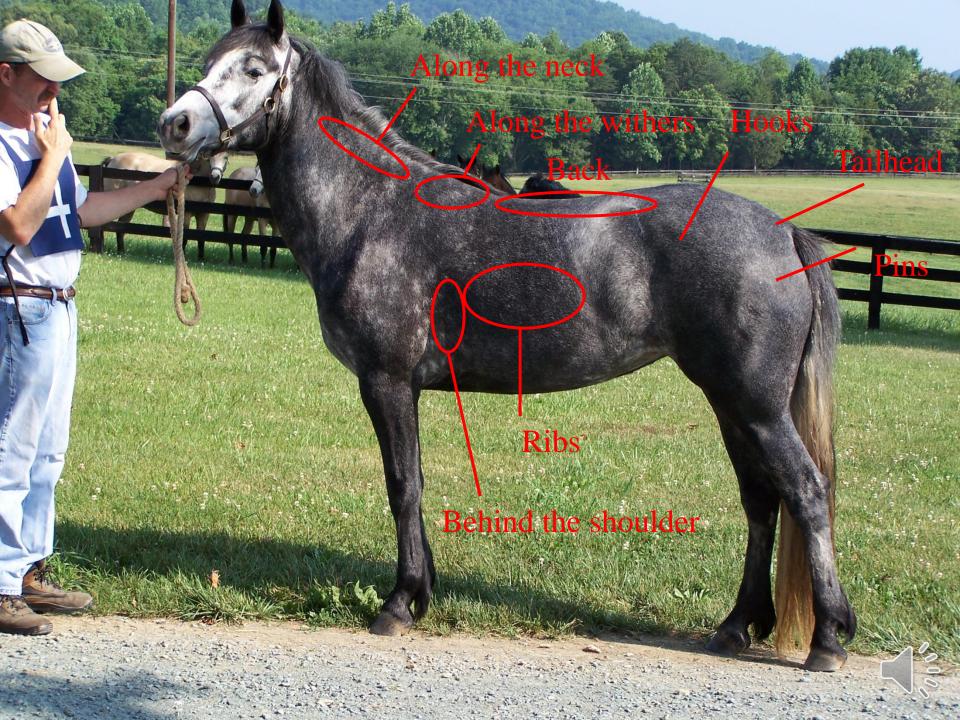




## **Body Condition Scoring**

- Henneke method
- Horses are scored from 1-9
- The "ideal" score will vary due to breed, conformation, age, and use
- More accurate when horses are palpated
- Horses should be re-evaluated over time





#### **Land Considerations**

- HOA and Zoning restrictions
- Minimum of 2 acres/horse for sustainable pasture (more depending on slope, soil conditions, etc.)
  - Vegetative cover
  - Nutrition (all or large % of)
  - Exercise
  - Property value
- Converting woods to pasture
  - Expensive
  - Takes years to establish grass

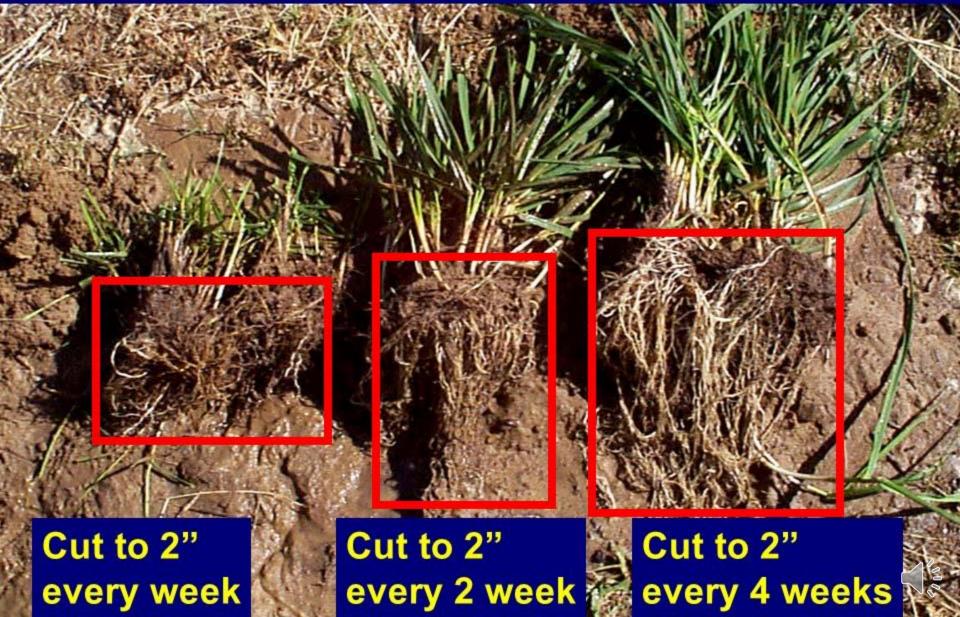


## **Stocking Rates**

- 2-3 acres/1000 lbs (minimum) to be sustainable and supply all/most of their nutrition.
- 12 hrs in a stall doesn't = ½ horse



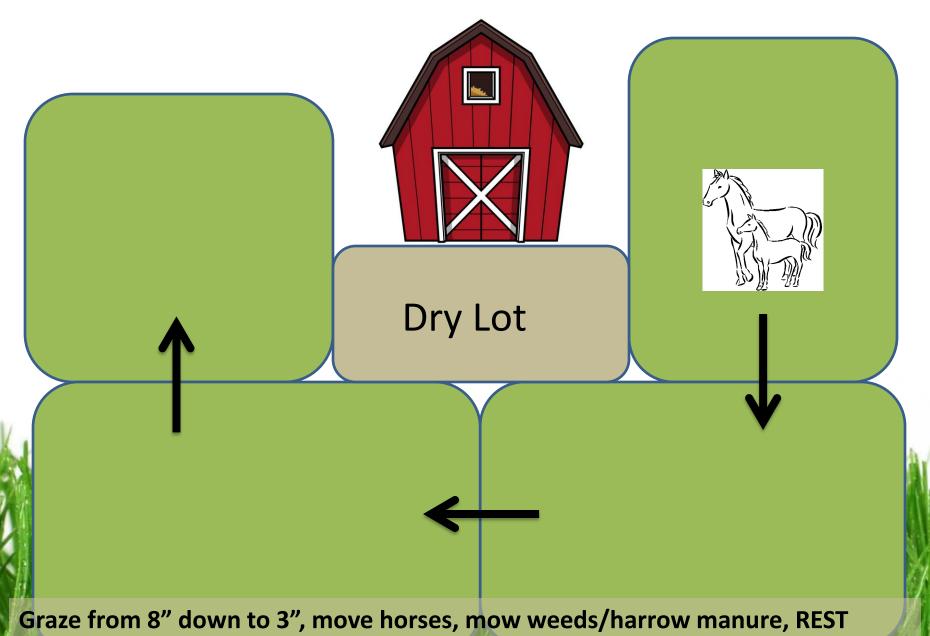
# Root development is strongly related to frequency and extent of leaf removal



## **Rotational Grazing**

- Key ingredient = rest! (i.e. recovery time)
- Much like caring for your lawn
- Leaves make energy (photosynthesis)
- Energy stores used for regrowth

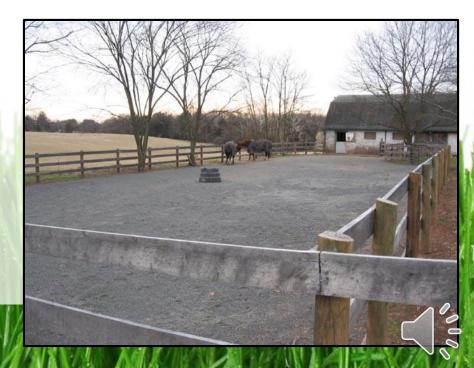




Graze from 8" down to 3", move horses, mow weeds/harrow manure, REST Use dry lot when wet, dormant or to allow 3+ weeks before grazing again.

## Sacrifice Lots / Dry Lots

- Area where you do not attempt to maintain vegetative cover
- Critical management tool
  - Easy keepers
  - Wet weather
  - Grass is dormant
  - Stocking rates too high



# Soil Nutrition...give your grass a fighting chance!

- Soil Test pH, Nitrogen, Phosphorus, Potash
- Talk to your Extension Agent!
- Adjust your pH first...6+ (lime will raise)
- Fertilize in Fall (best bang for your buck)
- Helps grass compete against the weeds!

## What's the best type of fence?

Well, it depends...

- On the type of operation
- On your location
- On the type / age of your horses
- Size of the pasture or paddock
- Other animals/uses



## Strength & Visibility







If you can't see it, neither can your horse!







### What about Electric??



#### Shelter

- Needs will depend on: age, breed, coat, etc.
- Minimum = windbreak for cold, wet weather
   (will likely use shed more in summer shade)





## Hay Storage

- Ideal = 1 year's worth of hay
- Minimum ~ 1 month's worth
- Dry, good air circulation
- If stored on ground/concrete, pallets or straw bales
- Accessible (think about delivery vehicles & bad weather)









## Manure Management

The average horse produces 50 lbs of manure a day, with bedding, that's 60-70 lbs/day (or 12 tons a year!)

You'll need a plan for that manure, even if your horses are on pasture full-time.

Often storage facilities and/or equipment will be necessary.



## Accessibility

- For trailers
- For emergency vehicles
- For the vet / farrier
- For feed and hay delivery
- Fertilizer, lime, bushhogging





## **Emergency Planning**

- Emergency vehicle access
- Water during power outage
- Hay & feed during snow storms
- Fence repairs
- Need to be self-sufficient for at least 3 days
- Evacuation sites, transportation, permanent ID



## **Professional Support**

- Farrier (every 6-8 weeks)
- Veterinarian (routine 1-2x per year, emergencies)
- Trainer (pre-purchase, and on-going)
- Extension Agent (pasture, weeds, grazing management, local contacts)

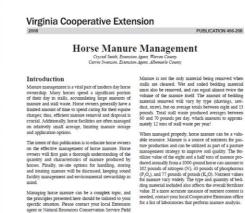






#### Additional resources...





Environmental and Health Impacts Many horse owners do not have enough land or vegeta-

tive cover to properly apply large amounts of manure and

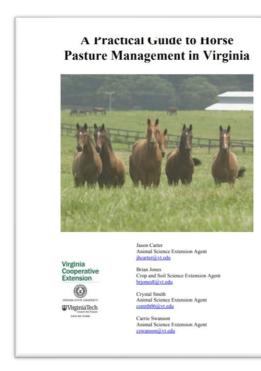
nutrients. If not managed properly, manure can deposit excess nutrients into the environment via surface runoff

or as leachate (water contaminated with manure) from

improper manure storage and land application. This can negatively impact water quality and subject land-

owners to investigation, and in some cases, legal action under the Virginia Agricultural Stewardship Act. For these reasons, horse operations are encouraged to use

best management practices and develop a nutrient man-



#### Questions...



Office for technical support.

Characteristics

a half tons per year!

UVirginiaTech

Horse Manure Production and

Horses produce large amounts of manure. In fact, if the

up in a 12-foot-by-12-foot box stall for one year, it would

accumulate to a height of six feet! On any given day, the average 1,000-pound horse will produce approximately 50 pounds of manure. This amounts to about eight and

