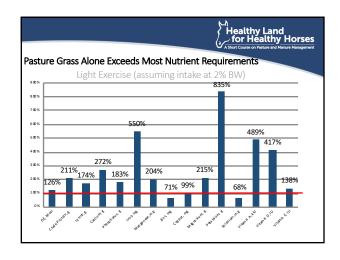


Pasture & land management: key to protecting both horse and ecological health Forage is foundation of equine diet Horses need 1.5% to 3% of their body weight in forage each day: 17 to 33 lb/day for the average horse Graze 14-18 hrs/day Move 10 miles/day





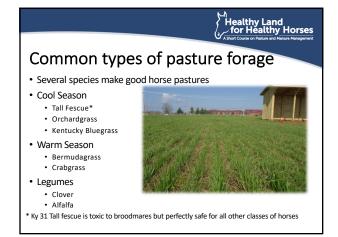


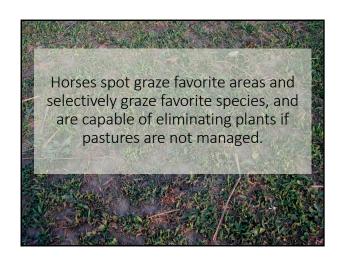




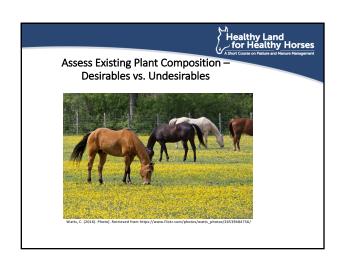
- Rotational Grazing
- Manage Stormwater to Protect Clean Water and "Treat" Wastewater*
- Install Heavy Use Areas and Dry Lots*
 - Mud Management
 - Obesity associated diseases
- Manure Management & Composting













Healthy Land for Healthy Horses

Getting Started with Plant ID:

- Break out your magnifying glass
- Use pressing paper to preserve samples or put in water for future examination
- Head out into a pasture and start collecting a few of the most abundant species - May need protective gear





For the most accurate results:

- Use standard protocol i.e. square meter (or hula hoop) counts and sample cross-section of paddock, similar to soil sample collection
- Best way to learn plant ID: ask an expert
 - Bring complete, fresh samples or quality photos to your Extension office Note collection date, location, orientation (sun vs. shade)
- **DIY Resources:**
 - · Southern Forages book
 - Virginia Tech Weed ID guide (online)
 - Regional books and guides
 - USDA/NRCS plant database

https://plants.sc.egov.usda.gov/java/



If planting, consider each potential species':

- · Season of growth
- Grazing tolerance vs expected grazing pressure
- · Ease of establishment
- Nutritional profile
 - High in carbohydrates and energy? Good for active or hard-keeping horses.
 - Low in carbs and energy? Good for easy keepers.
 - Species selection should fit an overall grazing plan that addresses year round forage needs.

Consult local Extension Agents, NRCS/SWCD or agri-business staff, attend educational programs sponsored by organizations that share research i.e. Extension, Virginia Forage and Grassland Council, and conservation organizations such as Virginia Working Landscapes that share research results.

Healthy Land for Healthy Horses Tried and True Pasture Species

- Tall fescue
 - Pros:
 - · Tolerant of overgrazing
 - Drought resistant
 - High productivity
 - High in energy (also a con)
 - - High in energy—not suitable for horses prone to obesity
 - Toxic to broodmares (except novel endophy varieties)



Healthy Land I for Healthy Horses

Tried and True Pasture Species

- Bluegrass
 - Pros
 - Tolerant of some overgrazing
 - Fills in gaps in the sward quickly
 - High in energy (also a
 - Cons:
 - High in energy-not suitable for horses prone to obesity
 - Low productivity
 - Not drought tolerant

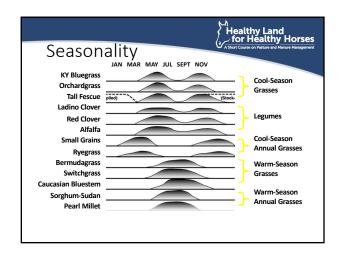


Healthy Land for Healthy Horses Tried and True Pasture Species White clover

- - Pros:
 - Free fertilizer (= 50lbs nitrogen fertilizer per acre annually)
 - Fills in gaps in the sward very quickly
 - Cons:
 - Slobbers
 - · Not drought tolerant

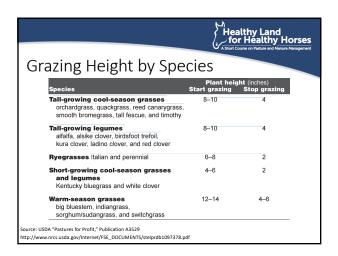


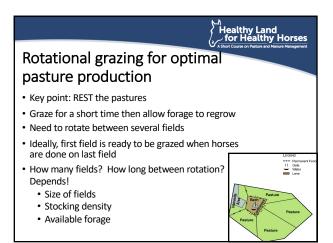






















First Level Treatment

Points to Consider:

• Are roof gutters present and adequate?

• Would installing or repairing a drain pipe that outlets in a vegetated area solve the problem?

• Could the issue be addressed by re-locating a facility such as a gate or water trough?

• Would making changes in the horses turn-out location or schedule lessen the impact?

• Could (tractor blade) grading, seeding and mulching trouble spots solve the problem?





"Engineered" Heavy Use Design Notes:

- NRCS standard drawing for Horse HUAs is located in numerous publications and on-line.
- Average 600 800 square feet per horse
- Designed to both infiltrate and drain uniformly (Not flat!)
- Excavated to desired grade (sub-grade, finished grade and side slope) Class 1 Non-Woven geotextile fabric is laid down and keyed in. Base (larger) stone of 4 in. of VDOT # 3s, 2 in. of # 21A, top dress with blue stone
- · Base boards are used to help contain stone
- Not suited for sites with natural slope greater than 5%
- \$6-\$9 per square foot
- · Gateways and water trough pads treated similarly





Resources

- Northern Virginia Soil and Water Conservation District publication *Earth Friendly Suburban Horse Farming*
- Contact your Soil and Water Conservation District to set up an on-site appointment for technical assistance.
- Currently an equine work group is in the process of formulating recommendations to the VA Soil and Water Conservation Board to expand cost share and other programs to horse operations. Your local SWCD can accept public comment or please Email kris.jarvis@fauquiercounty.gov

Healthy Land for Healthy Horses Sound Pasture Management is Key to Horse and Ecological Health • Set realistic goals for acreage available

- Three to five grazing seasons required for measurable change
- Higher level of management (and input) may be needed to meet goals
- Develop management protocols to be efficient & practical - Public agencies, agri-businesses and non-profit organizations available to assist

