UNDERSTANDING THE HORSE INDUSTRY..... ODOR BMPS THAT WORK BY ANN SWINKER PSU



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Horses 101: Understanding Horses, Owners, and the Industry

- The Equine Industry
- The Horse Owner
- PA Odor Regulations and Equine Facilities
- Survey of Adopted Best Management Practices
- The Horse Behavior and Health Considerations
- Utilizing ACAs
- Manure Management
- Succeeding with Horse Owners

The Horse Industry in Pennsylvania



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Economic Impact of PA Equine Industry

Number of Horses: 215,693 Annual Sale of Horses & Related Activities: \$435 million • **Related Assets/Investments:** \$8.27 billion **Total taxes:** \$53.2 million **Employment Compensation:** \$412.3 million **Economic Impact of Industry:** \$615.1 million • * Based on 2003 Economic Impact Study

Penn State Extension Horse Population - Breed Numbers Light Horse Breeds Quarter Horses - 40,110 Standardbreds - 21,132 Thoroughbreds - 21,117 Arabians & Half Arabians - 11,154 Morgans - 10,136 Appaloosas - 7,985 Other light horse breeds - 7,248



Draft Breeds Belgians – 6,202 Percherons – 3,000 Other draft horse breeds – 1,831

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Horse Population - Racehorse Breeds



Racing Industry

Standardbreds -14,815

Thoroughbreds - 11,550

Non Racing

Standardbreds -6,317

Thoroughbreds - 9,567









The Horse Owner (source: HIA, 1997)



- ✓ Average age 41 (getting older)
- ✓ 59% female, professional
- ✓ Average income \$47,600
 34% less than \$50,000
 28% over \$100,000
- ✓ 97% ride for pleasure, 6% for competition
- ✓ Ride infrequently unless involved in competition
- ✓ No agricultural background

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PA Act 38 Odor Management Plan – Odor Site Index















Conservation Planning

- \checkmark 51% did not have surface water on the farm
- ✓ 13% had an E & S or Conservation Plan
- ✓ 22% had a nutrient management plan
- ✓ 3% reported obvious soil erosion
- ✓ 25% indicated some erosion
- ✓ 76% had a water run-off system for buildings







Consider.....

- * Equine grazing behavior
- * Equine health
- * Equine "social" behavior
- * Farm manager and "customer" opinions and goals
- * Economics



Horse Health Considerations When Selecting BMPs





<section-header> Penn State Extension Dasture-related Health Issues: Excessive weight gain Colic Laminitis Insulin resistance Spread of gastrointestinal parasites Toxic plants

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"EASY KEEPERS"

- ✓ Get fat on hay or pasture alone
- ✓ Most (but not all!) more prone to laminitis and colic
- Most are insulin resistant (high insulin response to increases in blood glucose) that is often associated with obesity







Laminitis

- A very real concern
- Subtle, easy to miss onset
- Excruciating pain
- Potential for laminar failure and hoof deformity
- Can result in permanent lameness









Animal Concentration Areas (ACAs)



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Sacrifice Area (ACA, Stress Lot)

- * Small enclosure paddock or corral
- * Generally has no vegetation
- * Small area is sacrificed to benefit the rest of the pastures

When should horses be confined to a sacrifice area?











Summary

When dealing with horse owners.....

- ✓ Remember they care deeply about their horses and that they are passionate, opinionated, fearful, challenging, and enthusiastic
- ✓ Listen to their concerns and goals
- ✓ Understand that they may not have an agricultural background
- ✓ Take time to understand owners (and their horses) building trust is important
- ✓ Be positive they may not be as bad as you think



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Conclusion

- ✓ Most horse owners deeply care about the the well-being of their horses and want to protect the environment.
- ✓ Many are looking to us for assistance.
- ✓ Care of the horse and the environment can go hand and hand.



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