

Managing Water Quality at Small Confinement Facilities

Will Boyer

Extension Watershed Specialist

Kansas State University Research & Extension



Overview

- Water Quality
- Curb Appeal

Knowledge

- Neighbors
- Local Inspectors
- Animal Performance
- <u>Manure in Lots</u>
- Vegetative Buffer
- Feed Storage
- Lagoons





Research and Extension

Potential Losses Due to Mud and Waste

-No mud = 0%

Knowled

- –Dewclaw deep = 7%
- -Shin deep = 14%
- –Below hock = 21%
- –Hock deep = 28%
- -Belly deep = 35% University of Nebraska (1991)

-Health and Wellbeing





Knowledge Manure and Mud Buildup in Lots





Knowledge Regular Apron Scraping is a Good Use of Time



UNL & K-State – Planning a New Cattle Feedlot

http://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=5873&context=extensionhist



Knowledge Cleaning Lots and Permanent Mounds



Figure 7. Pull-type blades are best for manure harvesting.

Knowledge When it Rains it Pours Iced Tea and Smoothies









Knowledge Making Grass Buffer Systems Work



Odd Shaped Pens





Knowledge forLife Socks (Filter, Divert, Distribute)



Buffer Management

Perennial Grass Buffer

Annual Crop Buffer

Buffer Management

Knowledge forLife



Research and Extension

Buffer Management

Knowledge ^{for}Life



Silage Weep-Acidity-Dissolved Oxygen

Knowledge for Life Lagoons at Permitted Facilities





Managing Water Quality at Small Confinement Facilities

Will Boyer

Extension Watershed Specialist

Kansas State University Research & Extension

