



# Water & Mud Management

Clair Klock

Clackamas Soil & Water  
Conservation District

Adapted from Lee Ko

USDA

Natural Resources Conservation  
Service



# WHY – Conservation





Water Direction  
Slope  
Outfall



# Inherited Situations?!!!





PR for Horse Owners



**More PR**



Avoiding Nutrient Problems



Healthy Cattle, Healthy Horses???

# Consider the Long-Term Cost





**Gutters**  
**AKA**  
**Roofwater**  
**Management**



# Water Talk

$$20 \text{ ft.} \times 20 \text{ ft.} = 400 \text{ sq.ft} \times 5 \text{ ft (60'' of water)}$$
$$= 2,000 \text{ cu.ft of water}$$

$$2,000 \text{ cu.ft} \times 7.5 \text{ gal/cu.ft} =$$

$$15,600 \text{ gallon of water}$$



Industrial Size Gutters



4.19.2001



# More than one way to Solve a Problem!







# Outfalls for Roofwater



4.19.2001



Ever heard of “June” Pastures or “Flash” Grazing

# Rainwater Harvesting



# Riparian Buffers



3/29/1999







# Water Gaps



# What About Watering?



**Consider nose pumps or troughs**



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# *Resources*

## Learning Where to Look for What?

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