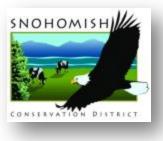


Managing Mud, Manure & Pasture on Horse **Properties**



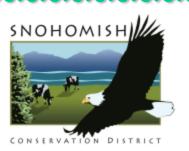


Your Presenters:



Bobbi Lindemulder

Program Manager
District Operations,
Snohomish
Conservation District
Lake Stevens, WA



Snohomish CD Small Farm Program

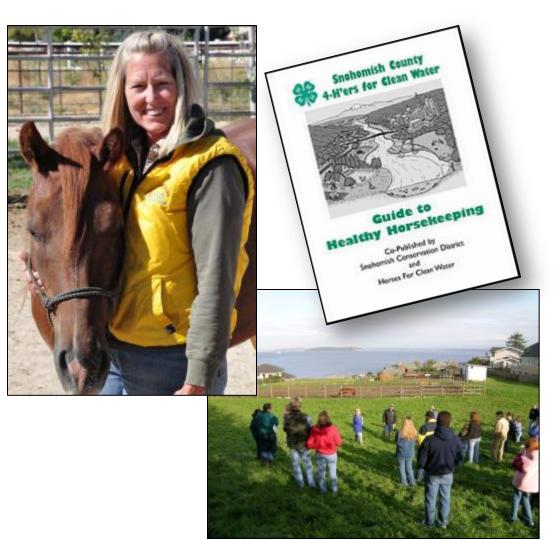
- Historically commercial programs (dairy, crop)
- Small farm program originated in 1992



- Today, 4 full time farm planners
- Last 5-year period we've provided almost 2,000 site visits
- Primarily 5 acres in nature but range from a city lot to more than 1500+ acres
- Every livestock type including exotic and dairy
- Starting to see increased need for small crop, flowers (truck farming), CSA and nursery growers as well as wildlife improvements and LID



Alayne Blickle & Horses for Clean Water



- Classes, farm tours, workshops, educational materials, individual consultations
- Environmentally friendly ways of keeping horses



Why "Clean Water?"



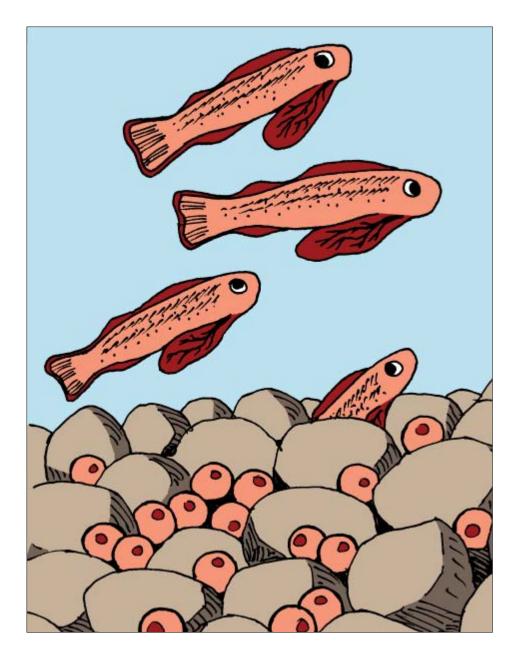
Runoff from muddy horse properties, over-grazed pastures, or manure piles can cause problems!

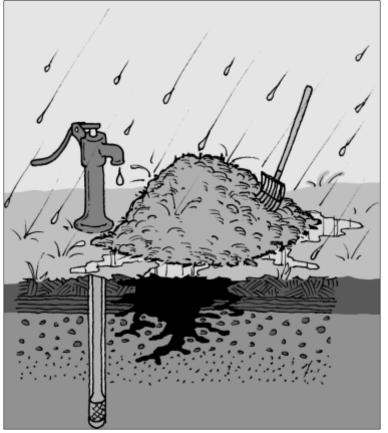


Mud & runoff on horse properties causes problems



- For horse health
- For owner convenience& chore efficiency
- For the productivity of the property
- For neighborhood esthetics
- For the environment...







Take home message...

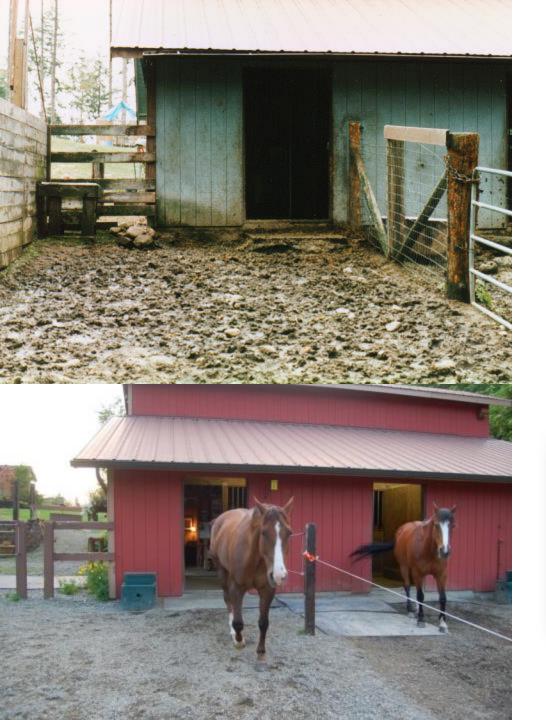
Equine BMPs are good for...

- horse health
- chore efficiency
- farm or ranch productivity
- property esthetics for you (& your neighbors) to enjoy
- save you money
- environmental health

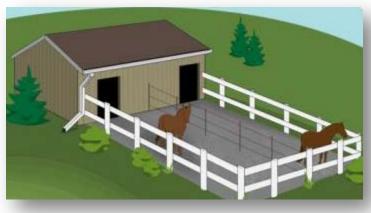


6 Tips for Reducing Mud, Managing Manure & Creating Pasture

- 1. Establish a sacrifice area
- 2. Pick up manure regularly & compost it
- 3. Use footing in paddocks & high traffic area
- 4. Install gutters & downspouts
- 5. Divert/manage surface flows
- 6. Use rotational grazing



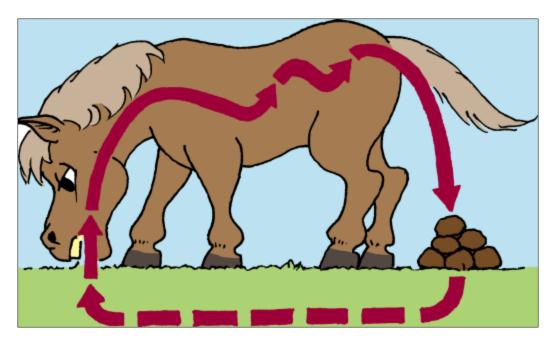
1. Establish a sacrifice area













2. Pick up manure regularly













Compost that manure!

- Bins can be built from a variety of materials
- Many creative designs& ideas
- Tailor them to meet your needs





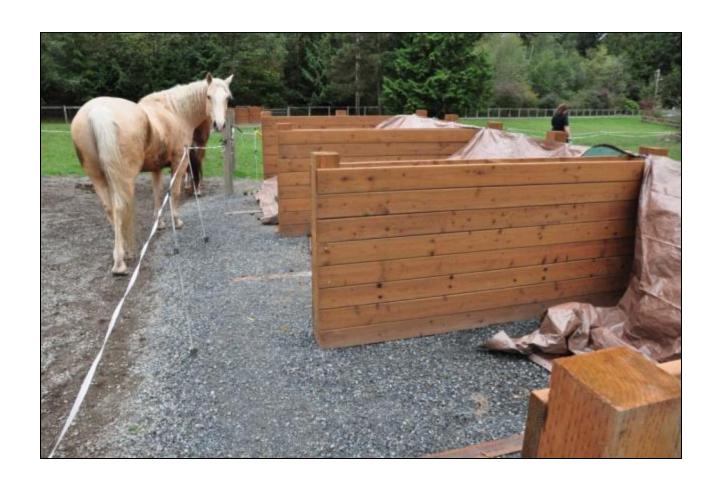
Ecology block bins

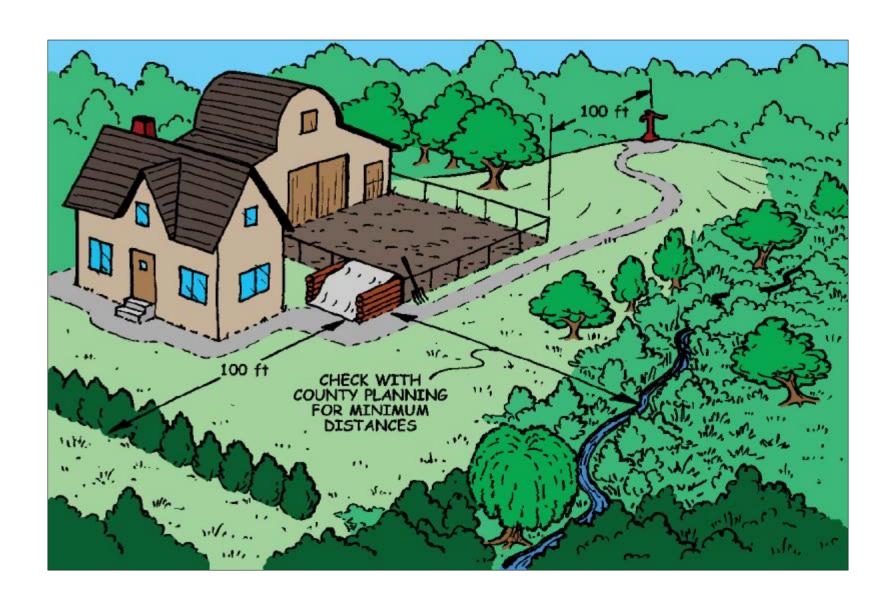




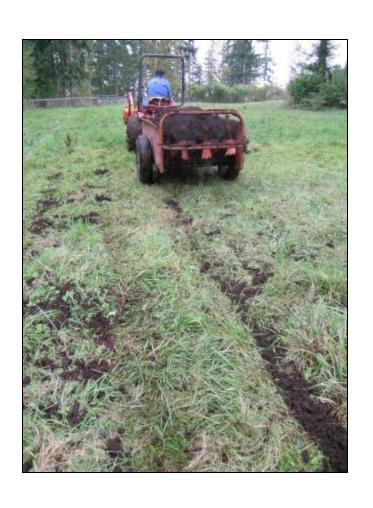
Locate your compost for chore efficiency

- Easy in
- Easy out





Compost Application Guidelines



- Apply to pastures, lawns, gardens
- Apply only during growing season
- Apply about ¼" at a time
- Apply no more than 2-3" per year

 Many Districts now offer spreader rentals!





3. Use footing materialin sacrifice areas& high traffic areas











Other footing options for high traffic areas

- Stall mats
- Belting
- Grid products
- Geotextile fabric
- Cement pads

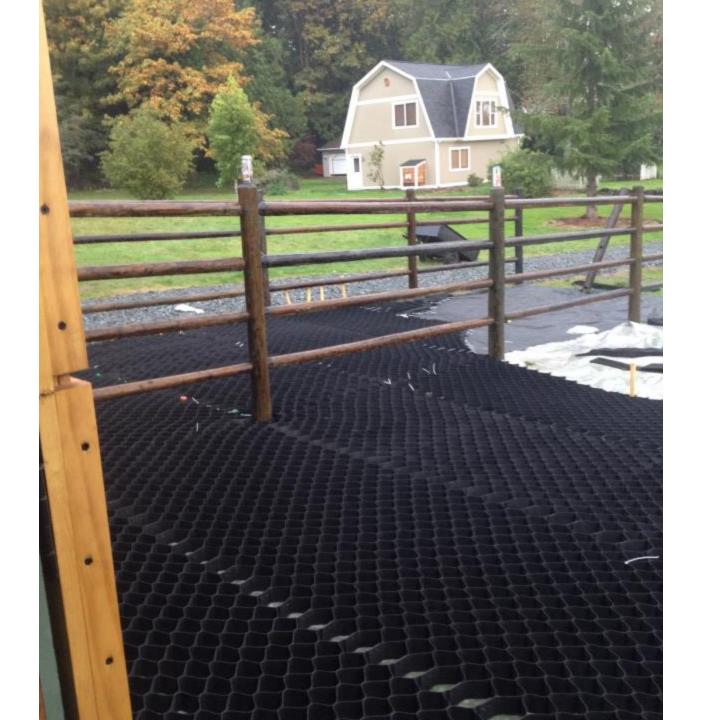
















4. Install gutters & downspouts















5. Reroute surface water runoff & reduce impervious surfaces

- French drains
- Dry wells
- Rain gardens
- Water diversion bars
- Culverts
- Grassy swales
- Native trees & shrubs









One type of water diversion bar







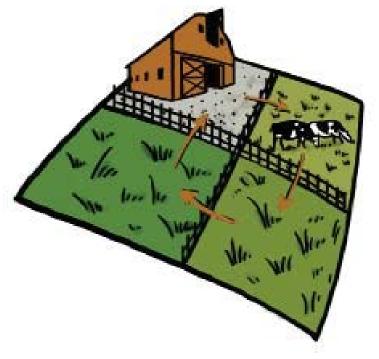




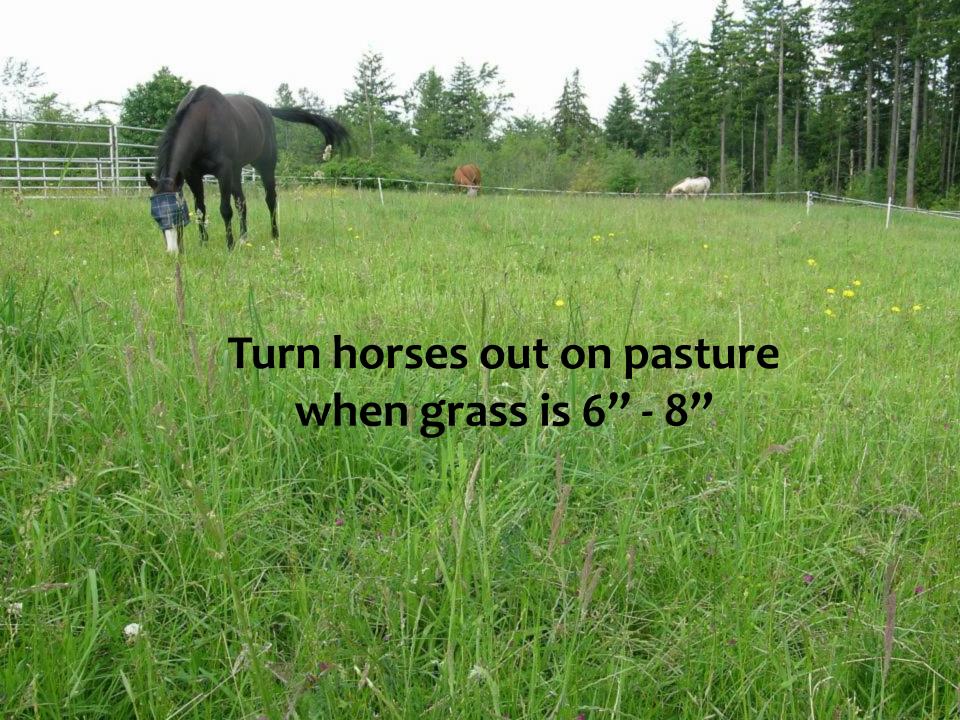




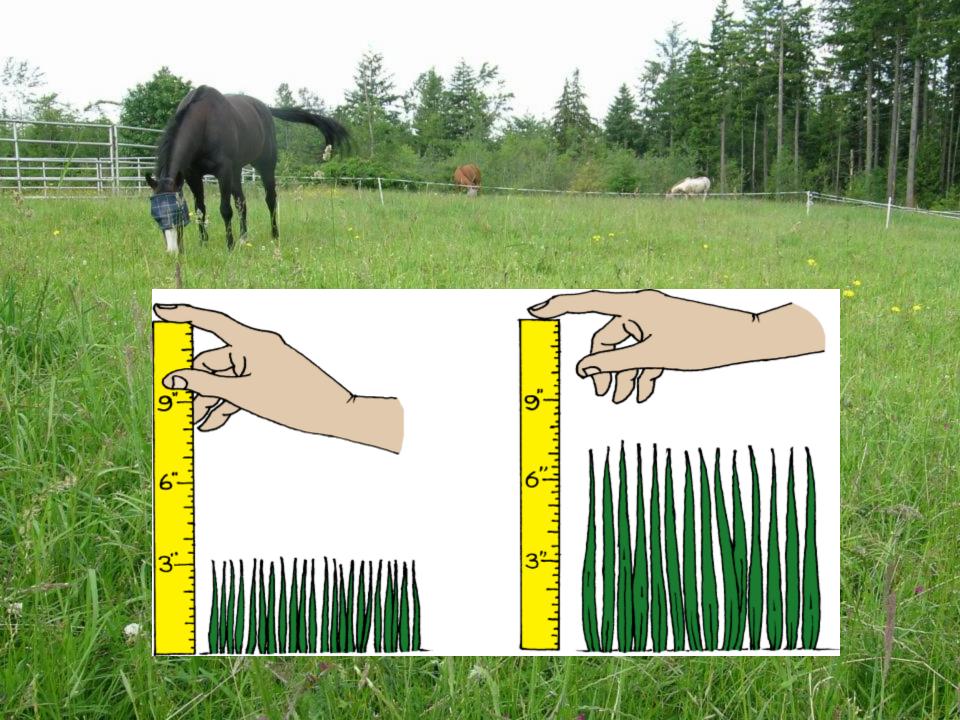
6. Manage pastures with rotational grazing system

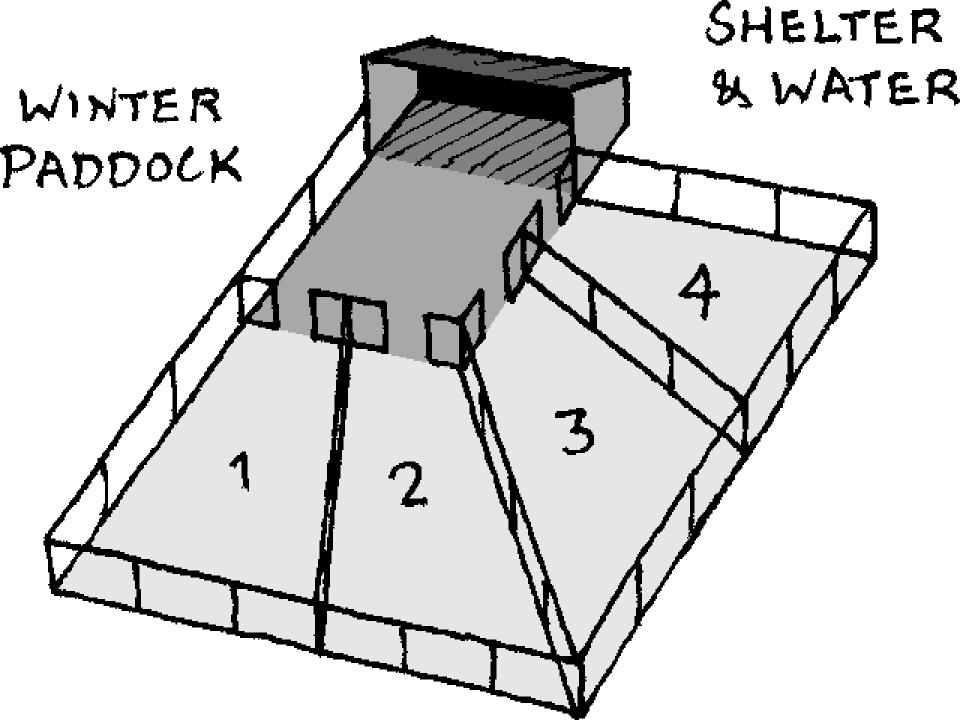












Mowers

A brush hog
(pasture mower)
to a riding lawn
mower can all be
very useful





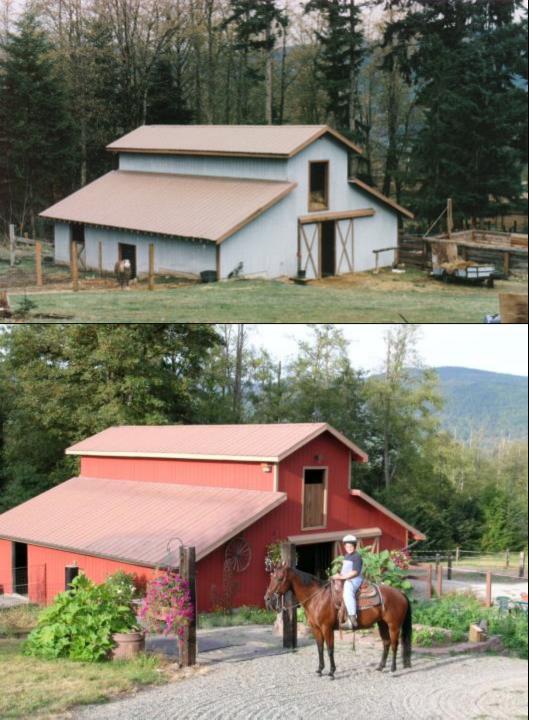
Harrows



Tine harrow







Managing mud, manure & pasture on horse properties...

- 1. Establish a sacrifice area
- 2. Pick up manure regularly
- & compost it
- 3. Use footing in paddocks
- & high traffic area
- 4. Install gutters & downspouts
- 5. Divert/manage surface flows
- 6. Use rotational grazing





Resources to follow up with:

- •Snohomish CD Tip Sheets, newsletters, Facebook, websites...
- •Better Ground website betterground.org
- •HCW email list, newsletter, website, tip sheets horsesforcleanwater.com
- HCW Face Book
- TheHorse.com
- Consulting with Alayne





The End(s)



