

Why Keep the Cows Out of the Streams?

Presenters

Mr. Walt Trumbauer &
Mr. Paul Herr

Photos courtesy of Hubert Karreman, V.M.D.
Penn Dutch Care

Program Outline

I. Environmental Reasons to Keep the cows of the Streams.

A. Protect the stream banks

1. Protect trampling & widening of the stream banks.

2. Lessen soil erosion & sediment wash out.

B. Reduce water contamination.

1. Feces, urine, & microorganisms.

C. Allow vegetation to grow on stream banks, reducing runoff.

1. Eventually trees will grow, shading the streams & providing improved fish habitat.

Program Outline

II. Cattle Reasons to Keep the Cows Out of the Streams.

A. Nutritional

1. Stream water is rarely top quality drinking water, which is what high producing dairy cows should always have available.

B. Injuries

1. Hooves & legs may be cut or injured on sharp stones or by slipping & falling. Infections & lameness may result & losses follow.

2. Snapping turtles have been known to bite off a teat.

Program Outline

C. Mastitis

1. Infection of the udder resulting from teats getting wet, loosening the teat-end seal & allowing dirt & microorganisms to enter causing infection, loss of production, illness, & possible death.

D. Other diseases. The following microorganisms may be spread to cattle by stream water contaminated by wildlife or other cattle:

1. Escherichia coli, Cryptosporidium, Campylobacter, Salmonella, Giardia, Neospora, Leptospira sp., Mycobacterium paratuberculosis (Johne's disease), & various parasites.

Program Outline

III. Human Reasons to Keep the Cows Out of the Streams.

A. Diseases caused by the following microorganisms may be spread from cattle to humans by contaminated creek water.

1. Escherichia coli
2. Cryptosporidium
3. Campylobacter
4. Salmonella
5. Giardia
6. Leptospira sp.

Bad For Hooves



Bad for Hooves & Needs Barnyard Drainage



Bad Situation for Cows & Water



Bad Water



Biological Pollution From Just One Cow



Calves Drinking Surface Water with Possible Pathogens



Floodplains can Harbor Cryptosporidium from Cattle



Horrible Walking Conditions



From One Animal to the Next



Standing Around



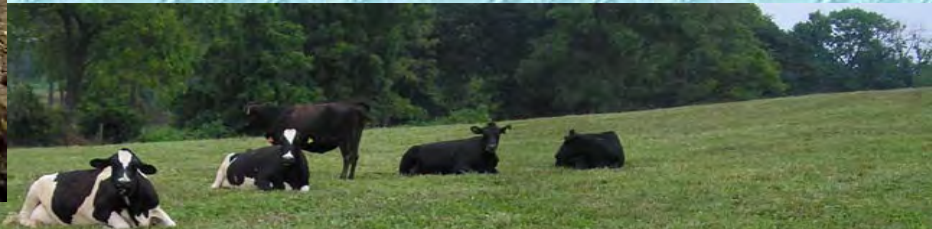
Trudging Through the Water



Abortion & Lameness Issues



Watering Alternatives



Stream Fencing



No Stream Fencing



Good Stream Fencing



Conservation Signage



Stream Crossings



Stream Crossings



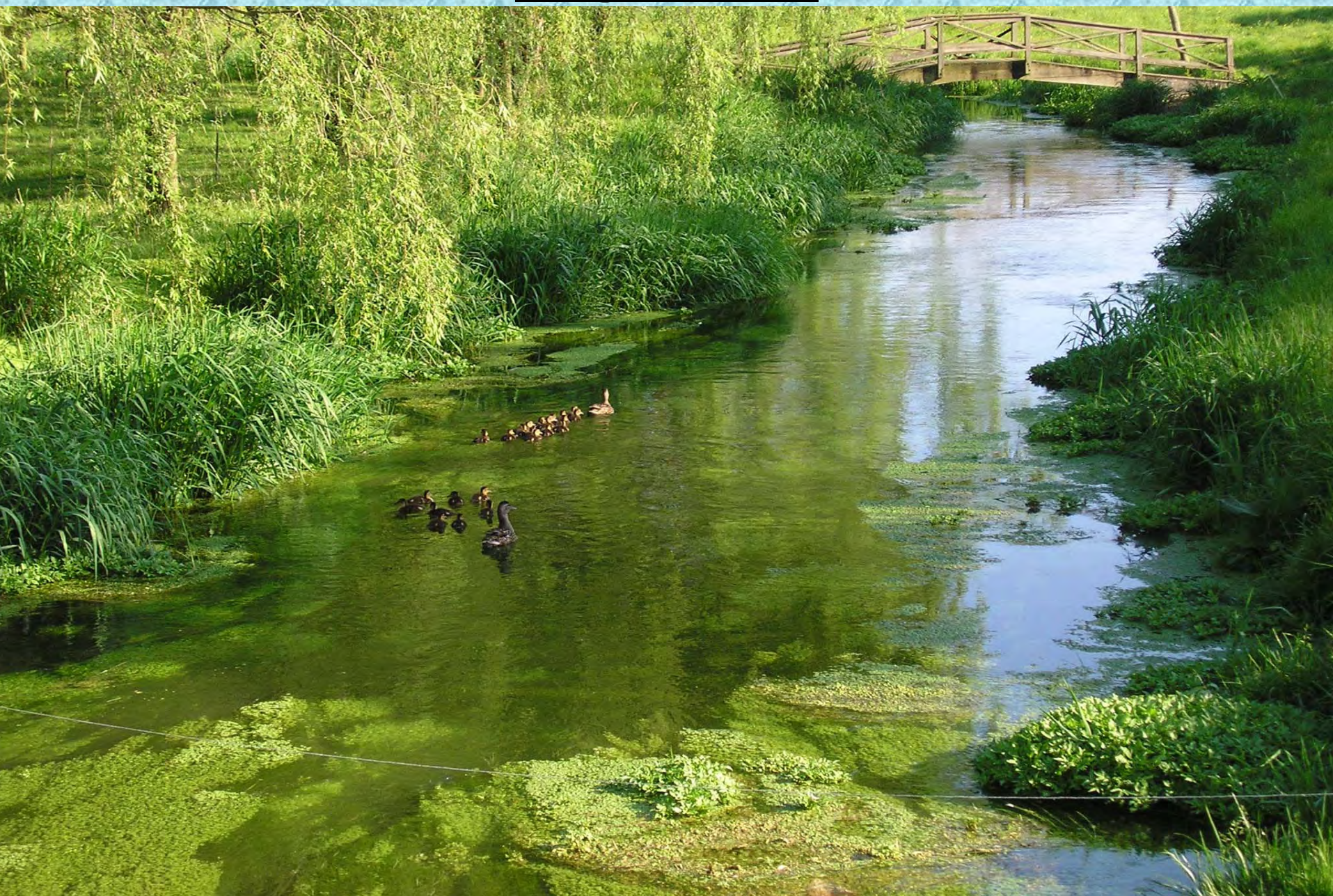
Stream & Ditch Crossings



Hog Slats



Vegetation



Vegetation



Vegetation



Vegetation





The End

Questions?