

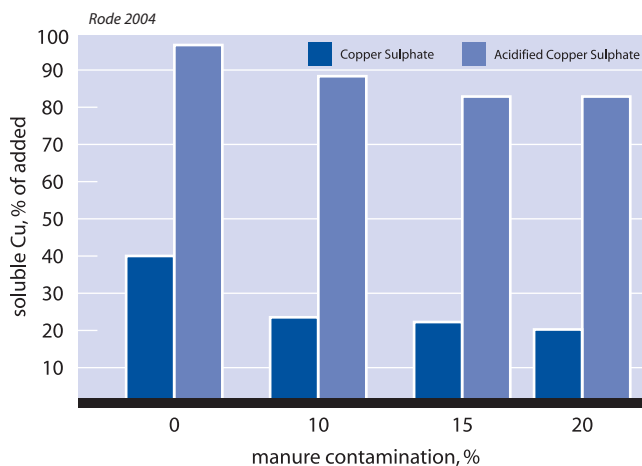
# On average, 38% of cows in dairy herds suffer from a case of Lameness every year\*

## Learn why Acidified Copper Sulphate is a powerful and cost effective tool

### 3 major benefits of Acidified Copper Sulphate

- 1 Low pH gets more copper in solution**
  - Increased solubility of copper, especially with hard water sources
  - Reduces interaction with manure slurry (figure 1)
- 2 Low pH creates an environment that discourages growth of bacteria and fungi**
- 3 Up to 4 times more effective as regular copper sulphate (figure 1)**
  - Less waste and risk of environmental contamination
  - Use less product and save money

Figure 1 Available Cu ion concentration



### How much can lameness cost a farmer?

The average cost per 100 cows/year of lameness due to all causes is estimated as follows (Can \$):

- case fatality rate of 1% for \$615.60;
- involuntary culling of 12% of cases for \$5027.40;
- treatment costs including veterinary fees, hooftrimmer fees, drugs and farmer labor of \$1179.90;
- 150 kg milk discard for 15% of cases for \$205.20;
- average lost milk production of 150 kg at \$1795.50; and
- average increased days open of 12 for \$1539.00

**At a total cost of approximately \$10,159.95/year/100 cows\***

Estimates were derived from published reports and data from the records of the Ambulatory Clinic at Cornell University.

\*Guard et al.



Here's the Problem...the all-to-common sole ulcer. Ulcers and whiteline lesions result when a combination of factors come together. Getting at the causes is a challenge because the hoof problems and lameness often don't show up until months after the process starts.

# Acidified Copper Sulphate

FREE FLOWING &  
QUICKLY SOLUBLE

NUTRICAL

NUTRICHLO  
/PLUS

ENER G II PREMIUM

ENER G TR

ENER G IIRF

NUTRIMATE

LEVUCCELL SC

AGRIMOS

ALKOSEL

ACIDIFIED  
COPPER SULPHATE

## Foot Bath Product Comparison

Product	Concentration	retail costs/foot bath
Acidified Copper Sulphate (5%)	6 Kg (13 lbs)/100L	~\$15.00/100L
Copper Sulphate (10%)	12 Kg (27 lbs)/100L	~\$25.00/100L
Formalin (2%)	6 L of 37.5% Formalin/100L	~\$25.00/100L
Virkon	1.5 Kg (3.5 lbs)/100L	~\$30.00/100L
Tetracycline <sup>250</sup> Foot Bath	0.6 Kg (1.5 lb)/100L	~\$40.00/100L
Linco Spectin Foot Bath	0.22 Kg (.5lbs)/100L	~\$125.00/100L

### Acidified Copper Sulphate

- Use once or twice per week
- Metal foot baths may corrode

### Copper Sulphate

- Use once or twice per week
- Metal foot baths may corrode

### Formalin (2%)

- Use in a well ventilated area - human health risk
- Use once or twice per week

### Virkin

- Use for two or three consecutive days as needed
- Replenish bath as necessary
- Literature suggests 10 consecutive days as a foot bath provides some foot fungus control

### Tetracycline<sup>250</sup> Foot Bath

- Use for two consecutive days; if foot bath is particularly dirty after day 1, make a new bath for day 2

**Caution:** Do not allow cows to drink water - Tetracycline<sup>250</sup> is an antibiotic.

- Cause antibiotic residue in the milk
- Kill rumen bacteria and put cows off feed

### Linco Spectin Foot Bath

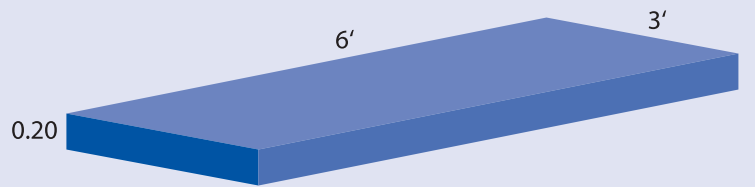
- Most expensive choice for foot fungus control (*expensive*)
- Best use as a topical spray in the parlour - needs veterinarian prescription
- Use for two consecutive days; if foot bath is particularly dirty after day 1, make a new bath for day 2

**Caution:** Do not allow cows to drink water - Linco Spectin<sup>100</sup> is a combination of two antibiotics.

- Cause antibiotic residue in the milk
- Kill rumen bacteria and put cows off feed

#### How to calculate foot bath volume

Length (ft) x width (ft) x depth (ft) x 28 = volume in liters



Example: L=6 ft W=3 ft D=0.20 ft x 28 = 100L



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tomorrow's INNOVATIONS

**For more information and your FREE  
sample of Acidified Copper Sulphate  
contact us at:**

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Web: [www.nutritechsolutions.com](http://www.nutritechsolutions.com)

**Ask your veterinarian about the importance of a foot bath program to reduce lameness in your herd.**