

T-HEXX[®]

a registered trademark and division of Hydromer, Inc





Advanced Research Materials

Hydromer Intellectual Property

Technology

Patents may be listed multiple times due to their cross functionality

Lubricious Coatings	4,875,287	Hydrogels	5,156,601
	4,847,324		5,258,421
	4,987,182		5,420,197
	6,054,504		6,379,702
	7,008,979		5,837,266
			5,851,540
Antibacterial/Biostatic	4,847,324		5,888,520
	4,987,182		6,110,475
	6,054,504		6,121,375
	5,851,540		6,365,664
	5,837,266		7,008,979
Drug Delivery	4,847,324	Anti-fog	4,847,324
/Complex Systems	4,987,182		4,987,182
	6,054,504		7,008,979
Radio-opaque Coatings	6,599,448	Animal Care	6,203,812
			6,395,289
			6,440,442

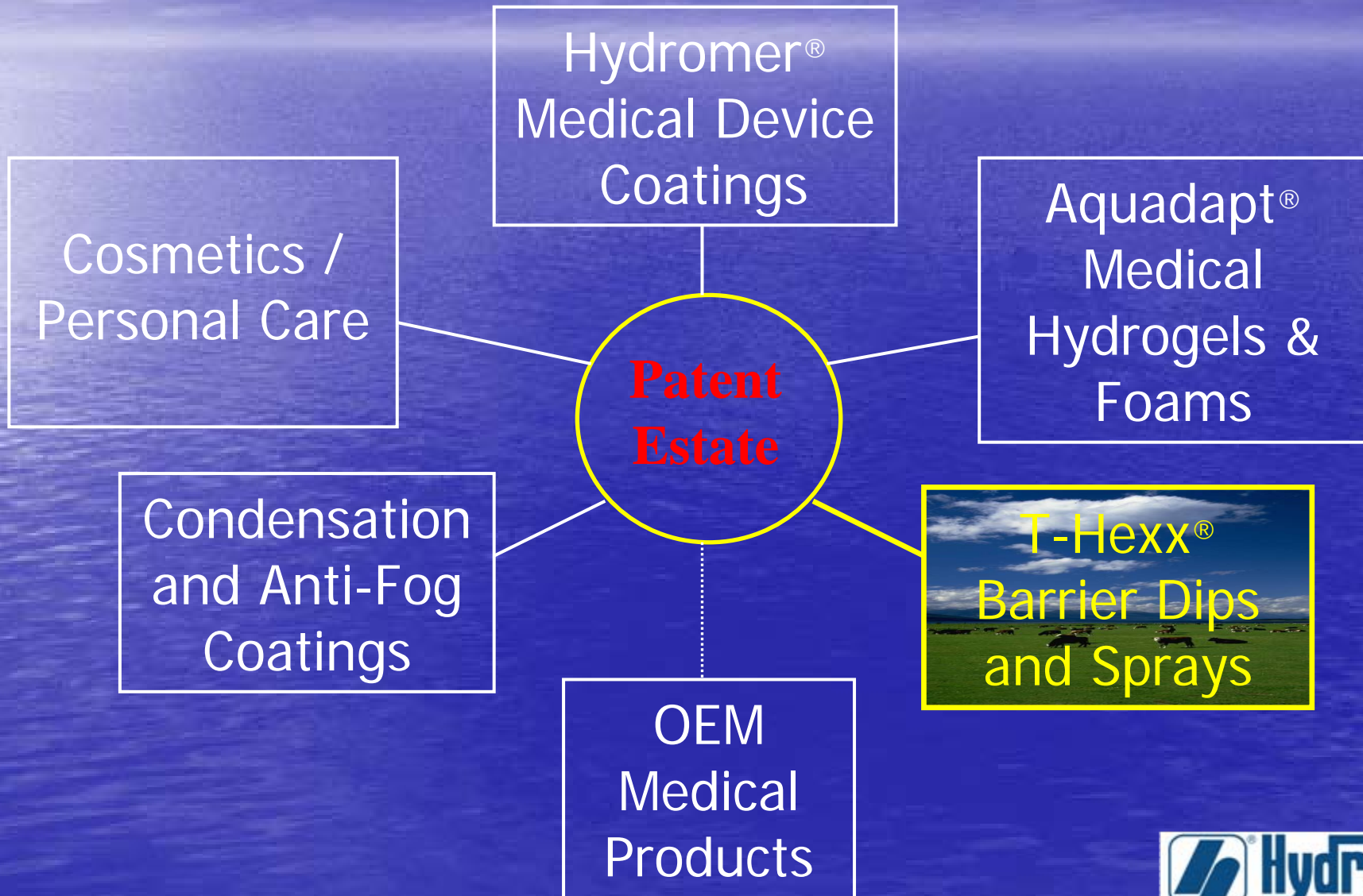
The Company also has various foreign counterparts to their U.S. patents.

The Company owns the following registered trademarks and/or common law marks:

AQUADAPT[®], AQUAMERE[®], AQUATRIX[®], DERMASEAL[®], HYDROMER[®], Sea-Slide[®], T-HEXX[®]

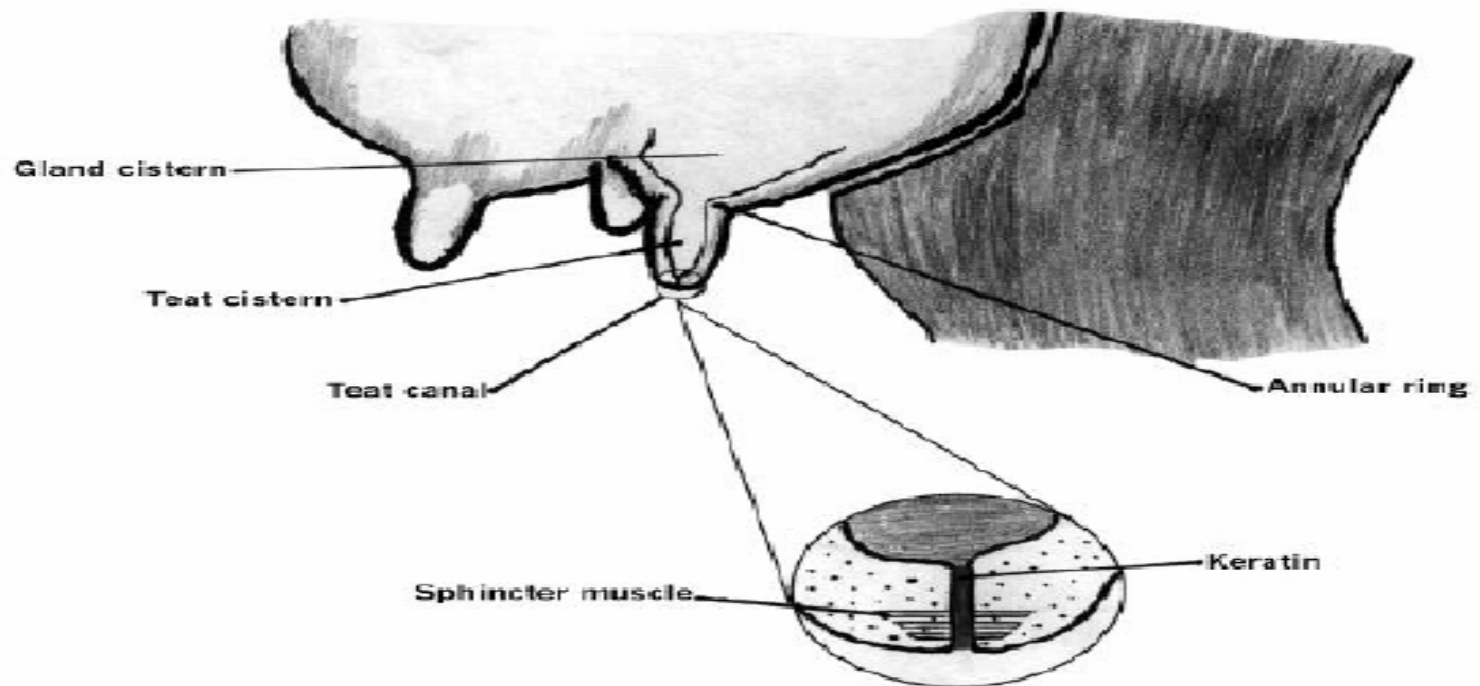


Management of Hydromer Technology



Mastitis

A \$5 billion problem: The most costly disease to the industry



Bacteria

IMI (Intramammary Infections) / Subclinical Mastitis

For every one case of mastitis



There is...



20

to

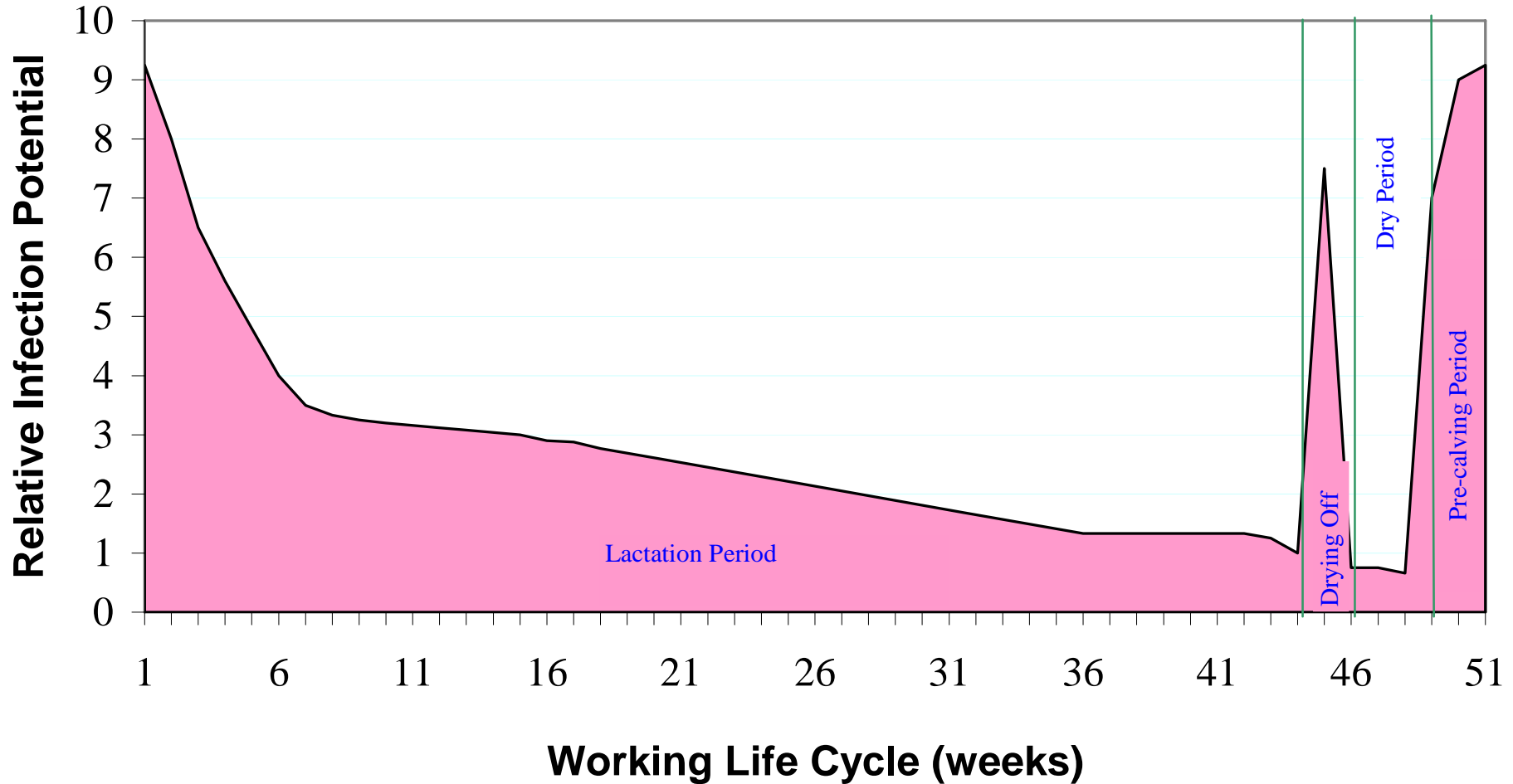


40

cases of subclinical mastitis

Dairy Cow Working Life Cycle

Potential for Environmental Mastitis Infections



T-HEXX Mastitis Control Product Family

- **T-HEXX No-Drip Barrier Dips**

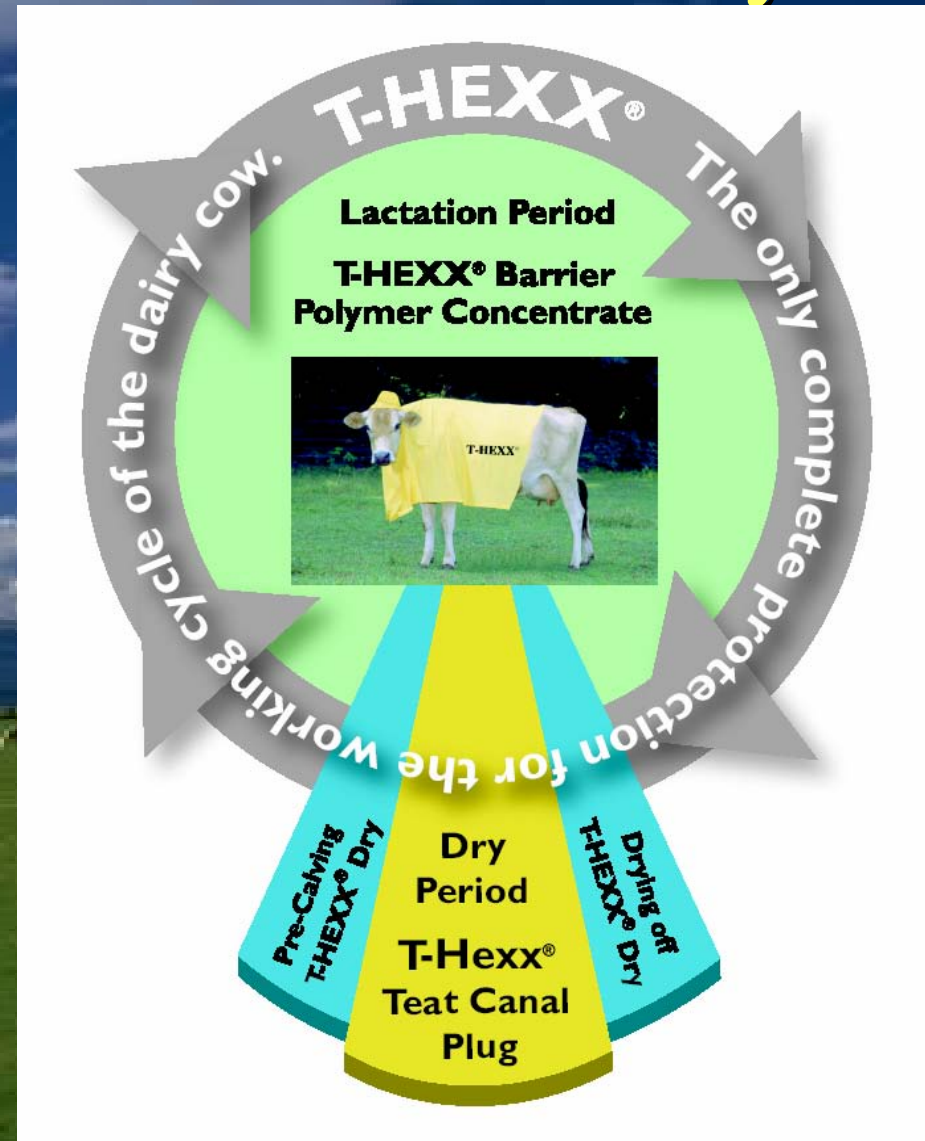
Prevents the occurrence of severe and moderate infection during lactation.

- **T-HEXX Dry Cow Teat Protection Sealant**

Is effective during the critical periods of drying off and pre-calving.

- **T-HEXX Teat Canal Plug**

After calving seals the teat canal against ascending microbial entities.

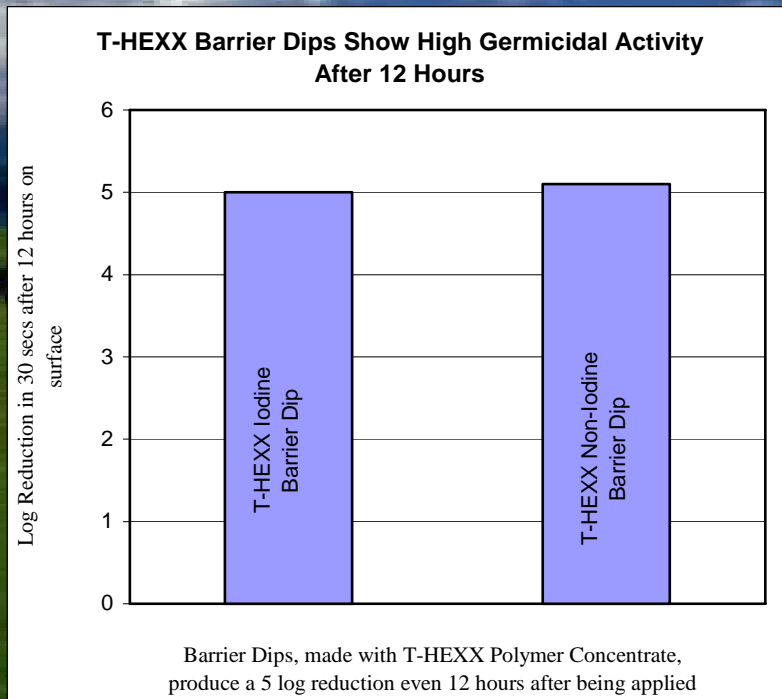
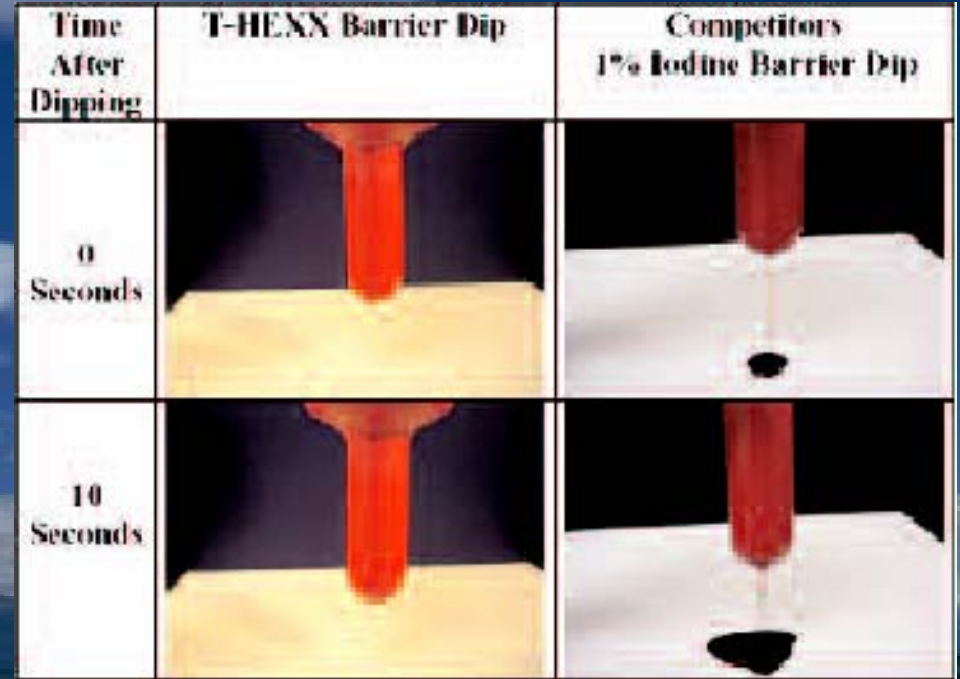
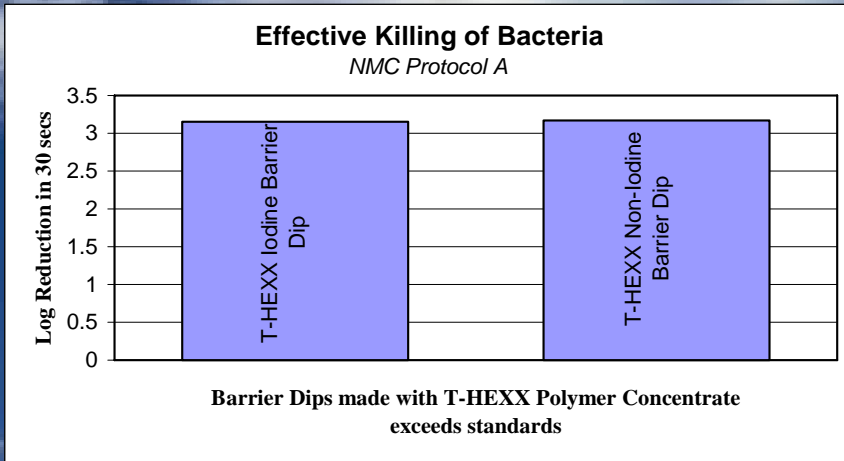


T-HEXX Barrier Concentrate

- Sanitize the teat and kill Mycoplasma and mixed Coliforms
- NO-DRIP and minimize the waste of the teat dip
- Form a flexible, water resistant, breathable film, impervious to bacteria
- Resist being washed off between milking cycles by moisture that comes from mud, manure, cooling bath/sprays, humidity or rain
- Extend germicidal activity for 12 hours and kill in dry and wet weather
- Are easily removed with standard pre-dips
- Improve teat conditioning



Technological Superiority



No Drip

Also,

- Impervious Film
- Water Resistant

Long Efficacy

T-HEXX Dry



Performance Criteria:

- Effective Killing of Bacteria
- Long Efficacy
- Non-Irritating Formulation
- Impervious Film Coating



T-HEXX Dry
Reflects Uniform Coverage



Competitor
Non-uniform & Bubbling of Film



T-HEXX DRY



T-HEXX Dry

"MASTITIS THREATENS FRESH HEIFERS"

>20% have Clinical Mastitis.

>50% have low-mid and Clinical Mastitis infections.

Clinical Trial Results*

- 1 - Lowers CLINICAL MASTITIS Cases...55%***
- 2 - Reduces ALL infections in your fresh group...37%***
- 3 - Raises Milk Quality of 1st calf heifers...31%***

*-National Mastitis Council 45th Annual Proceedings (NMC0 Jan 2006)
"EFFECT OF A NON-INTRUSIVE PERIPARTURENT PROTOCOL
TO DECREASE SOMATIC CELL COUNT AT FIRST CALVING"



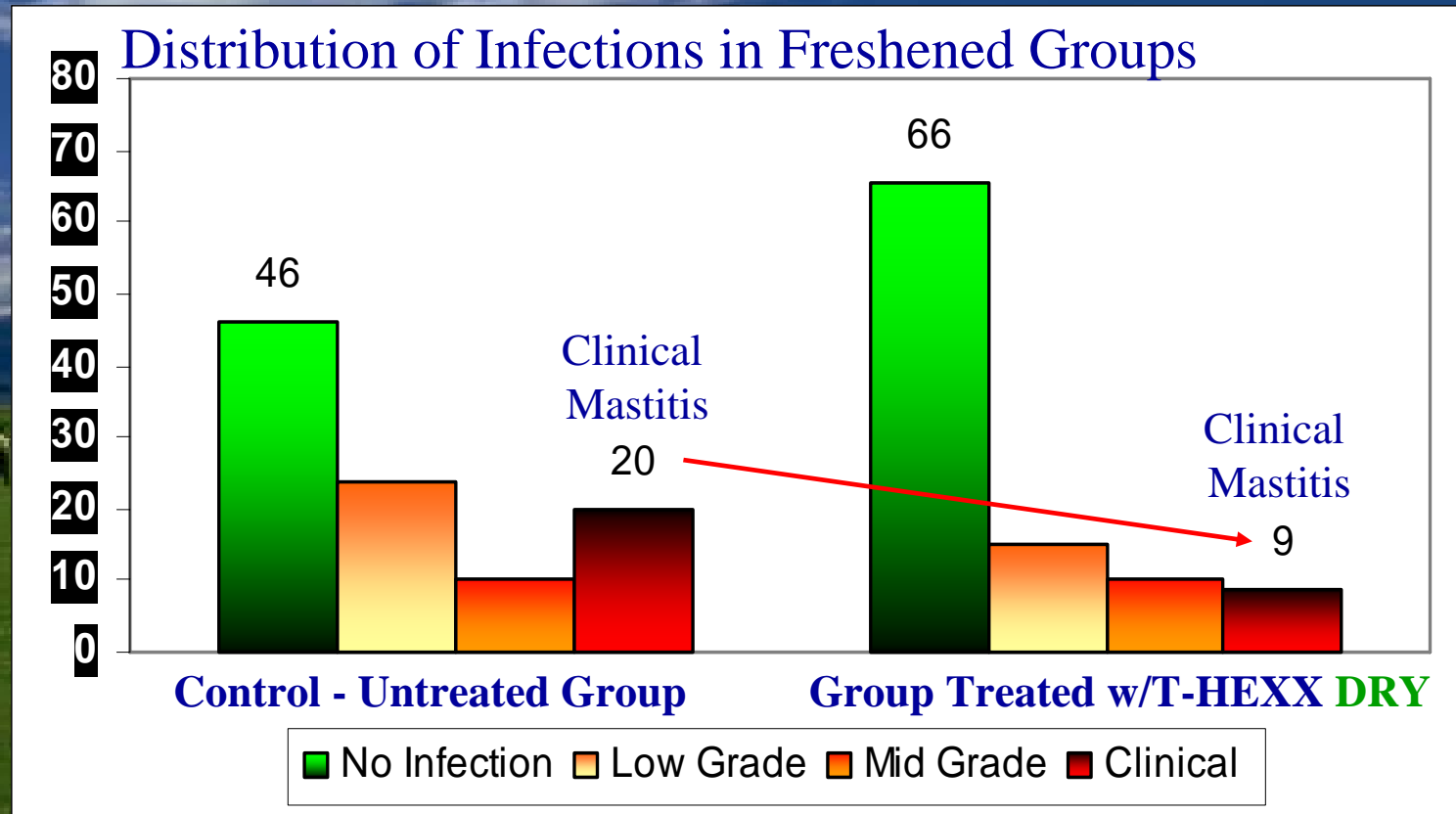
T-HEXX DRY



T-HEXX Dry

Lowers Clinical Mastitis Cases by 55%

Clinical Cases reduced from...20% in Untreated herd to... 9% in Treated herd.



T-HEXX DRY



T-HEXX Dry

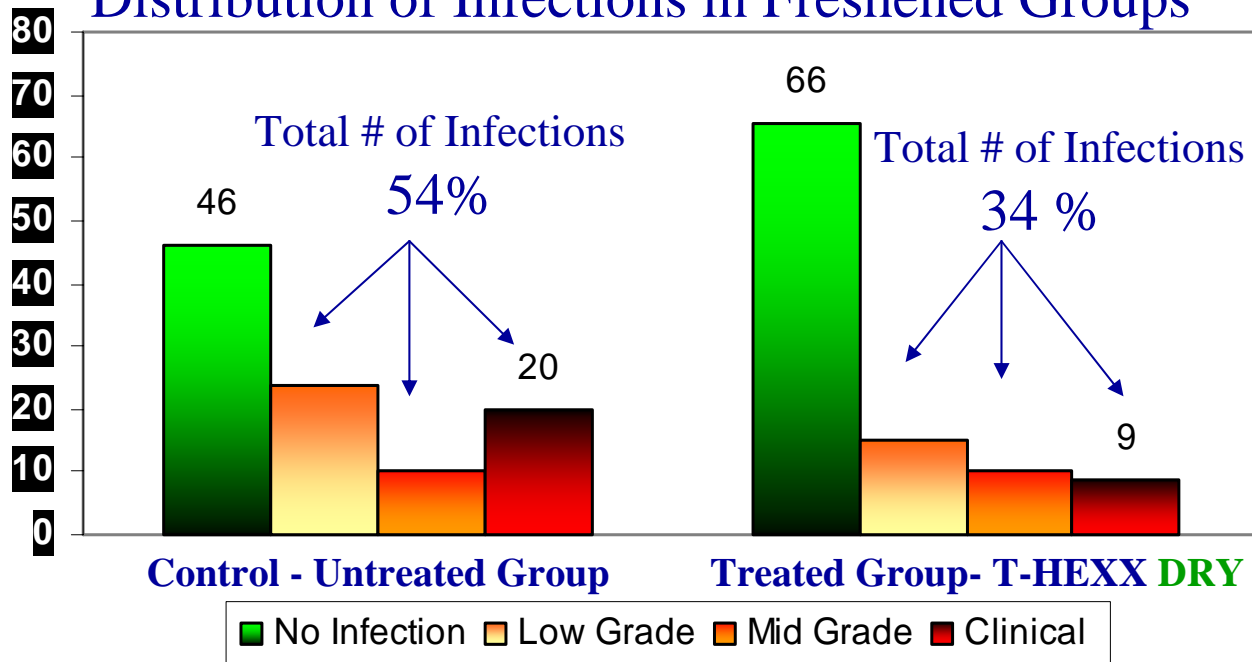
Reduces **ALL** Infections in your fresh group by 37%

Reduce: low and mid-grade Subclinical infections along with Clinical Mastitis.

Untreated Group: Total Infections are 54% of group.

T-HEXX Treated Group: Total Infections reduced to 34% of group.

Distribution of Infections in Freshened Groups



Percentage of Freshened Group with each type of infection



T-HEXX DRY



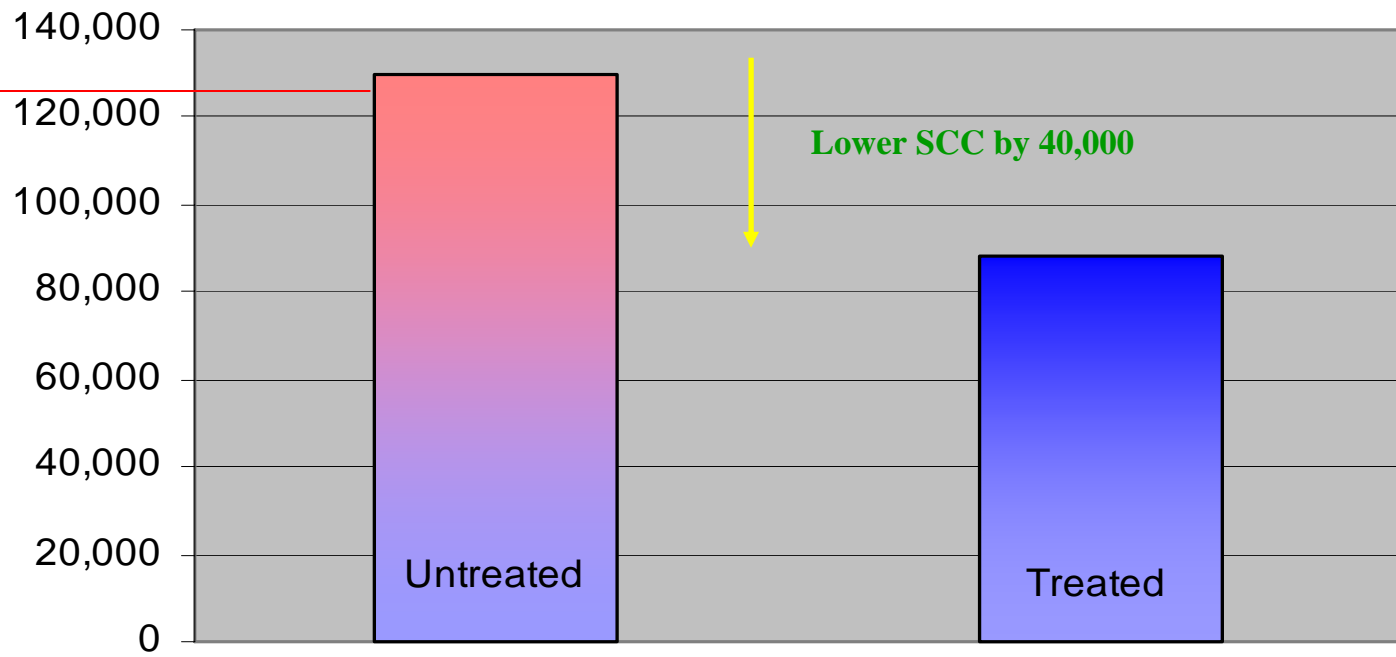
T-HEXX Dry

Raises Milk Quality in 1st Calf Heifers by 31%

Raise Milk Quality by reducing SCC by 31%

*Untreated Group: - SCC mean is 129,520 (in range for 20% Clinical Freshening).
- At the low end of a low-grade infection (<125,001).*

T-HEXX Treated Group: SCC mean is 89,590 for higher milk quality & yield



>125,000 SCC
Control Group Avg
is a low-grade infection

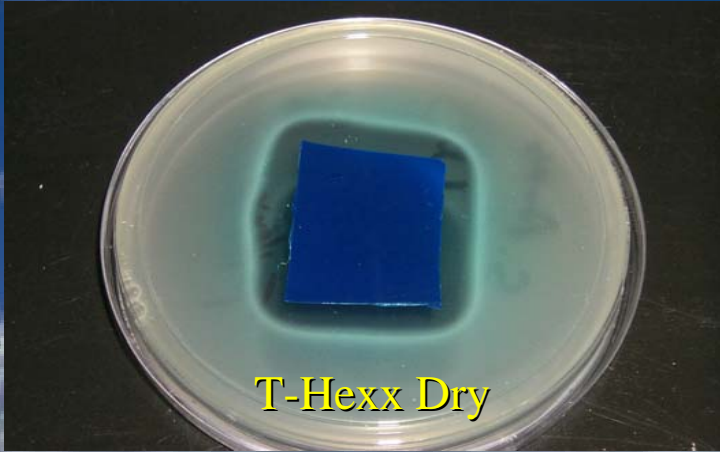


T-HEXX DRY

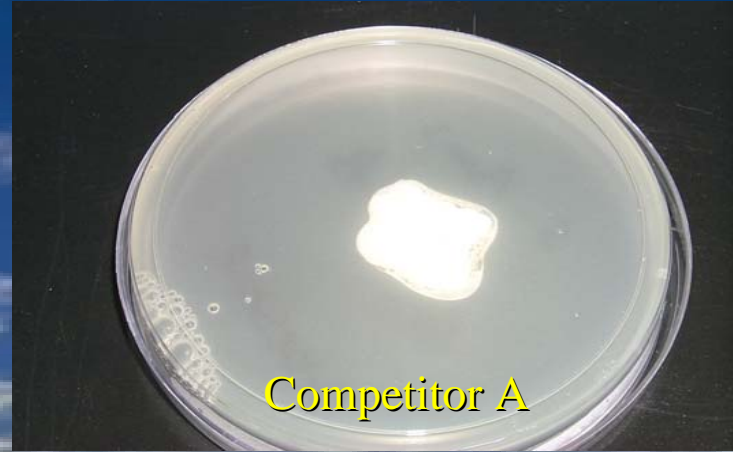


T-HEXX Dry

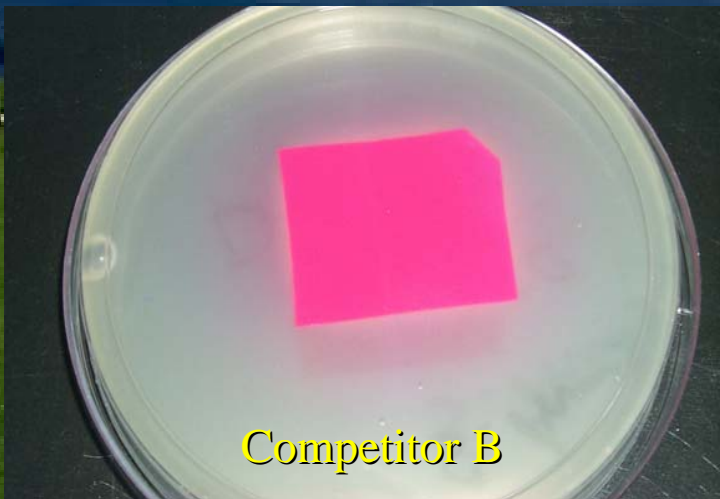
Active ingredient inhibits growth of Staph. aureus in 1st 24 hours.



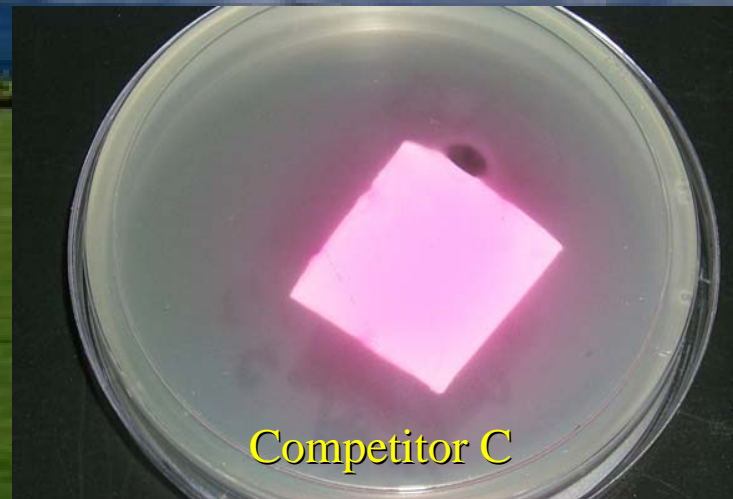
T-Hexx Dry



Competitor A



Competitor B



Competitor C

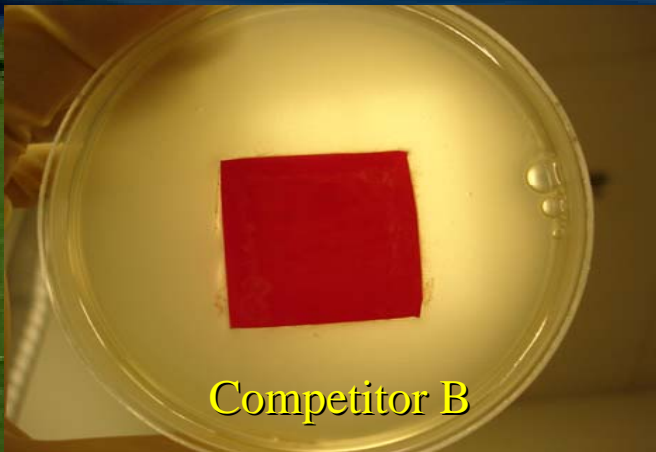
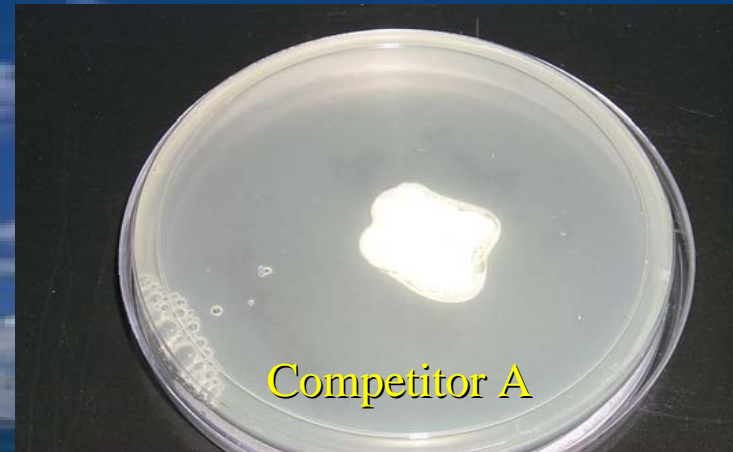
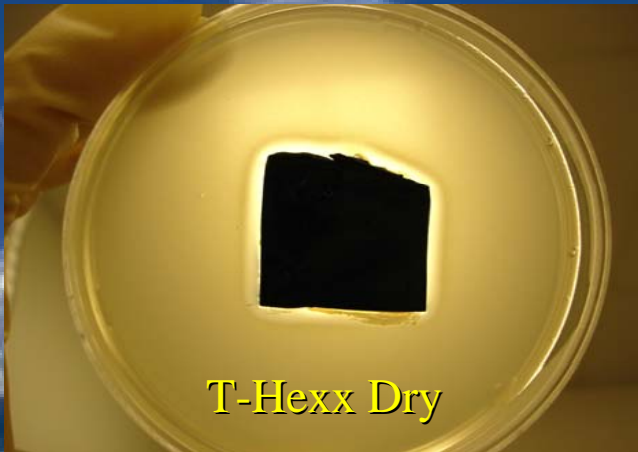


T-HEXX DRY



T-HEXX Dry

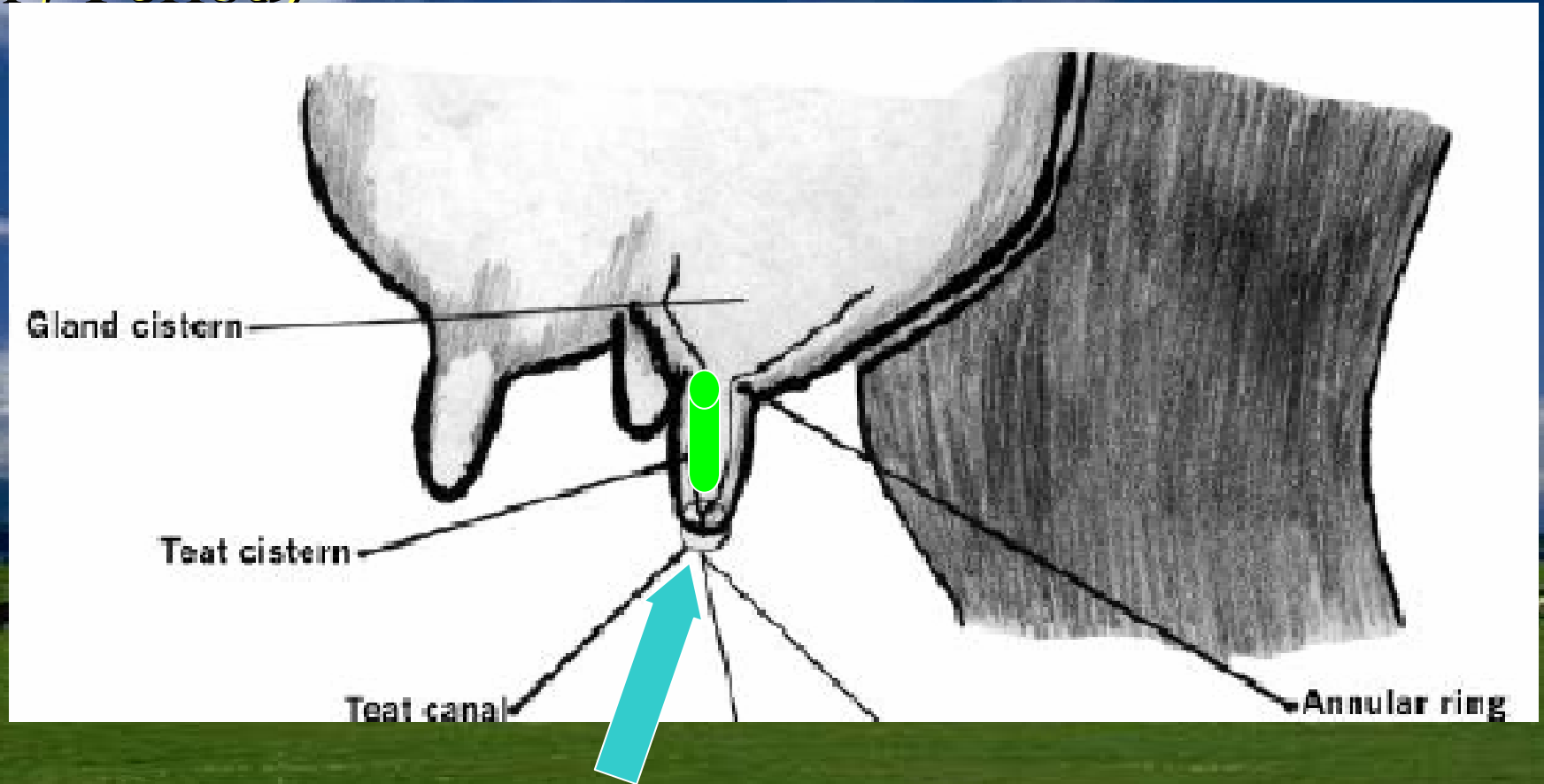
Active ingredient inhibits growth of Staph. Aureus for 8 days



T-HEXX DRY



T-HEXX Teat Canal Plug (Dry Period)



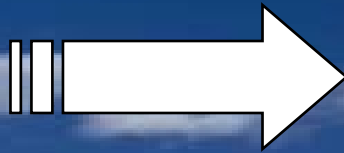
T-HEXX Teat Canal Plug
inserted through teat canal and
remains in Teat Cistern

Cost Benefit

- The T-Hexx family of products can:

Lower SCC

Increase milk yields



\$ Bonuses \$

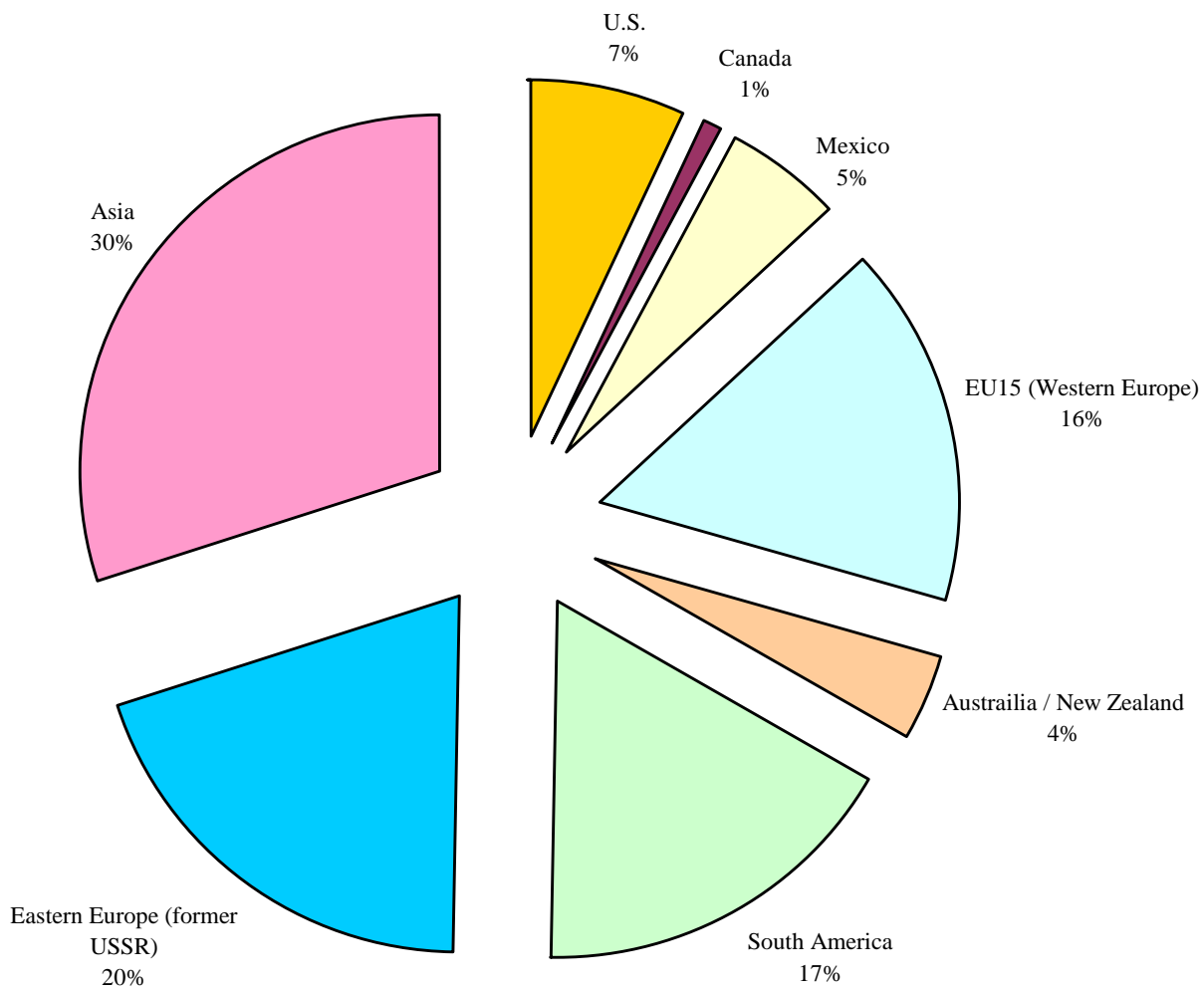
- 10x to 15x return:

For less than \$20 per cow per years, dairy owners can reasonably expect a return of \$200-\$300 per cow annually.

- Annual cost of \$20 per animal for complete protection

Market

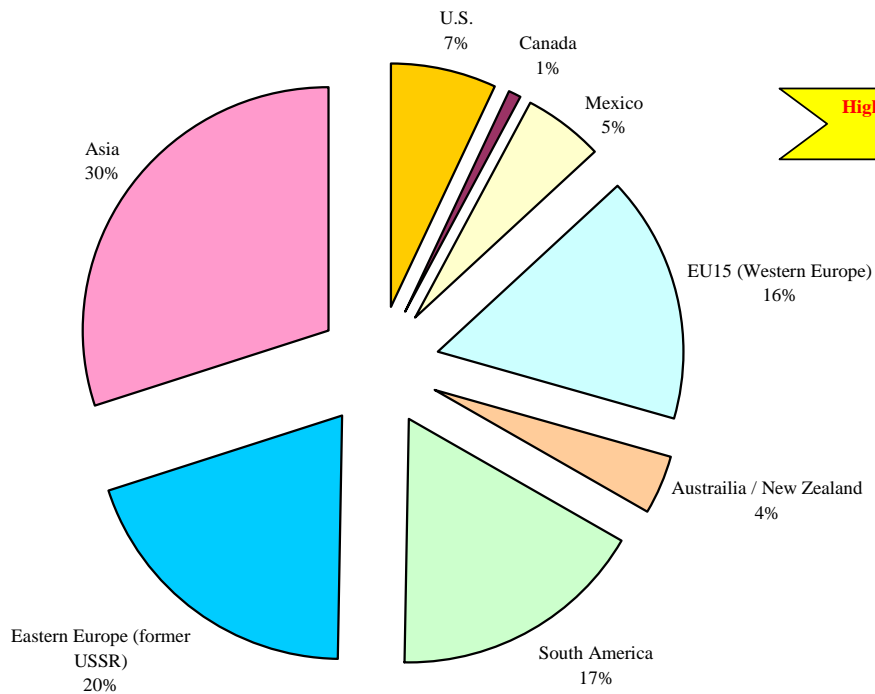
Dairy Cow Population



	Dairy cows (millions)
U.S.	9.2
Canada	1.2
Mexico	6.7
EU15 (Western Europe)	21.8
Australia / New Zealand	5.3
South America	22.5
Eastern Europe (former USSR)	26.0
Asia	39.6
	<hr/>
	132.3

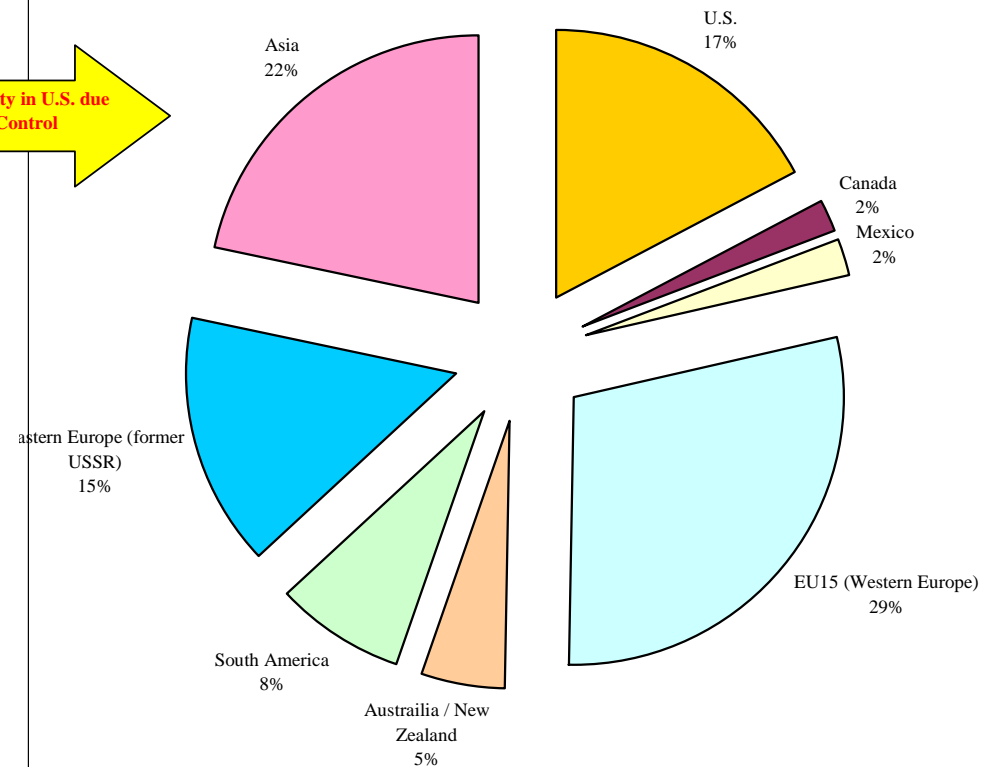
Production Efficiency

Dairy Cow Population



Higher Productivity in U.S. due to Mastitis Control

Milk Production

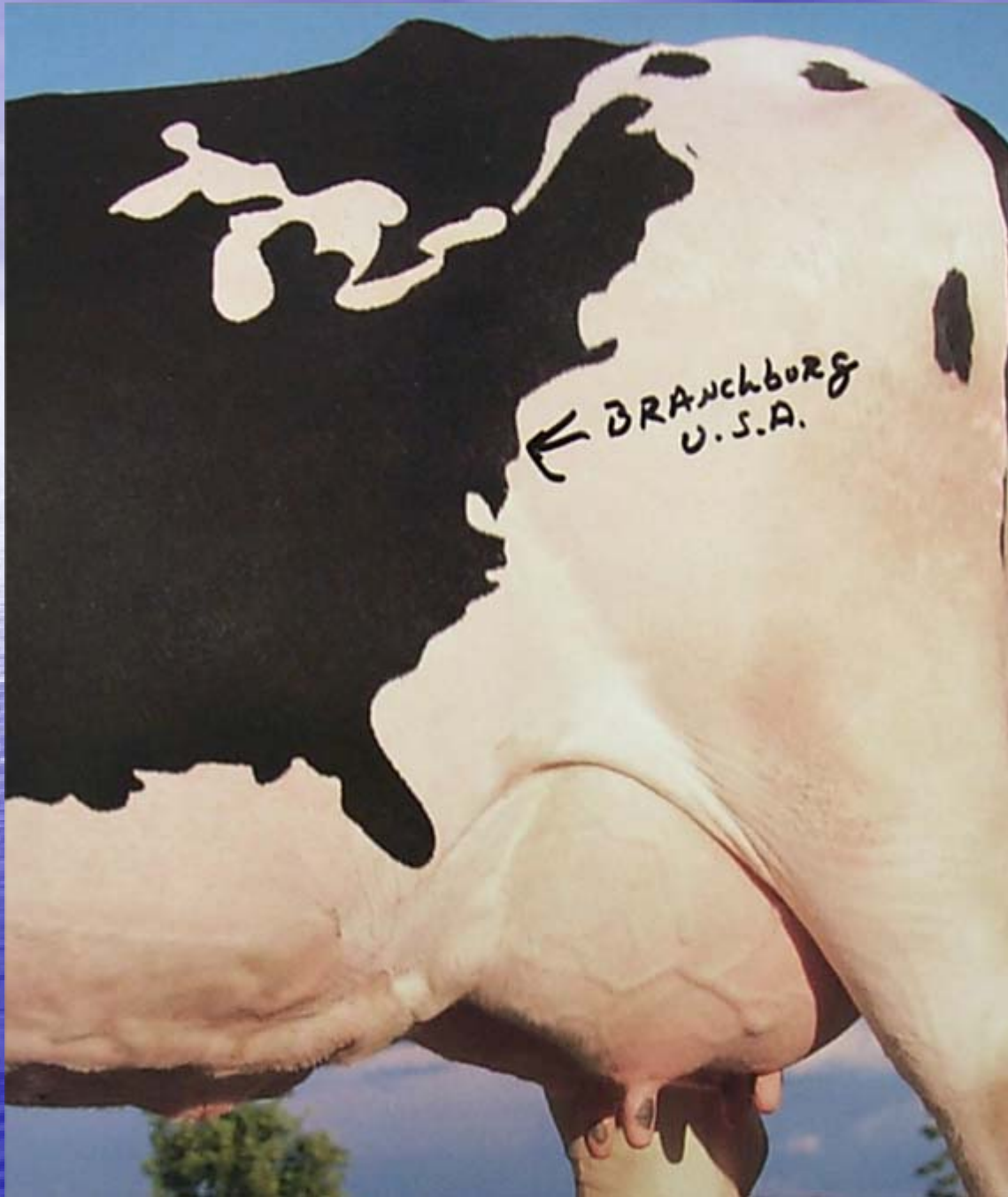


Cows in the **U.S.** produce an average of **8 tons/yr** of milk
 Cows in the **EU 15** produce between **4-7 tons/yr** of milk
 Cows in **under-developed** markets produce **1-2 tons/yr** of milk

(Hoards, 2000)

Future Developments

- Hoof Care Treatment
- Biostatic Coatings
- Insect Repellant



T-HEXX

35 Industrial Parkway

Branchburg, NJ 08876

Phone: (877) HYDROMER

Fax: (908) 526-3633

Video Conferencing: video.hydromer.com