


Breeding and Managing for Healthy, Drug-Free Cows... a Long-Term Investment

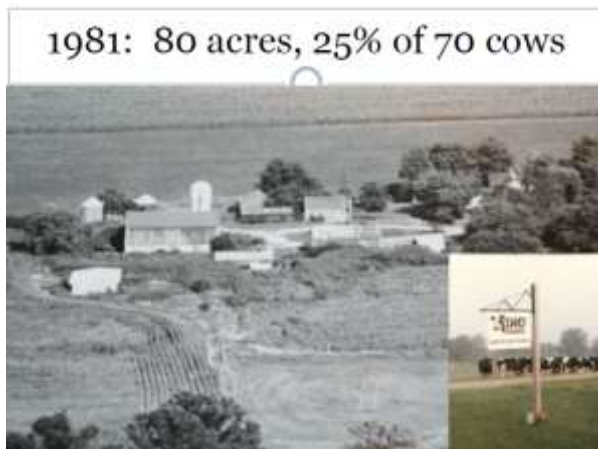
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Breeding and managing for
healthy, drug-free cows
...a long-term investment



LLOYD & DAPHNE HOLTERMAN
TIM STROBEL -- JORDAN MATTHEWS
WATERTOWN, WIS. USA



2016



Four partners



Farm Overview

- Lloyd: finances, genetics
- Daphne: accounting, Human Resources, public relations, safety
- Tim: crops/machinery, environmental compliance, safety
- Jordan: cows, milking staff, reproduction

Overall Goal

**1.7 lbs. of milk per lb. dry matter
TMR (total mixed ration) fed to cows**



\$\$ Income \$\$

92% milk
5% cull cows and bull calves
Less than 1% genetic sales
2% misc., government payments, etc.

Cow Goals

2016	actual	Goal
3.7%	death loss	< 3%
0%	treated with antibiotics	<0.5%
154	DIM	< 170
2.0	services / conception	<2.0
\$1220	profit /cow/year 3 ave.	>\$800



2016 Calf Results

- 570 raised
- 1.7 lbs./ head / day average daily gain
- Goal: double birth weight, ranges 40-80%
- 4.1 % DOA rate
- 6.0 % culls & deaths
- Healthy lungs, healthy stomachs

Ventilation tubes



- Clean water
- Fresh air
- Clean, fluffy, DRY bedding every day



Heifer barn



Pre-fresh

- 94% cows:stall ratio
- Big stalls, add fresh sand 2x week
- Don't move cows
- Top quality feed
- Fresh water (clean 2x week minimum)
- Excellent ventilation

Calving

- "Just in time" calving
- Move to freestall close-up group:
 - 14 days heifers, 21 days cows
- Checked every hour 24/7 when each group is moved to milking parlor
 - Move to straw pack during calving
 - Do NOT assist unless absolutely necessary



Calving

- Bovikalc at calving
- Milk cows within 30 minutes
- Feed calf within same 30 minutes
- Add lots fresh straw after each calving



Fresh group, continued

- 58 stalls
- 56 or less cows (48 is best)
- 2-year olds and cows together
- Move out healthiest cows at 15-21 days
- Dry hay top-dressed 2 lbs / cow / day
- Ketosis prevention:
 - Low energy pre-fresh diet
 - Feed always available

Fresh cow performance

- 0.5% DA's (displaced abomasum)
- 0% Ketosis
- 0% Milk fever

Lactating cows

- Fresh group is 0 to 21 days post calving
- Monitor performance on Afi Milk
 - Daily milk weights
 - Check only poor performers, RP cows



Repro: leading reason for culling

Short term:

- Afi Milk real-time
- Double Ovsynch

Long term:

- Genetics!

Breeding

- Repro - No. 1 issue in our herd
- Pregnancy check ultra sound 32 days
- Re-check at 90 days & dry-off
- Pregnancy loss 8.6% cows, 5% heifers



Mastitis control – market 100% milk

- Alternating J-Vac and Endovac
- Add fresh sand 2X week; Scrape cow alleys 3X day
- Don't overcrowd groups:
 - <10% in two-row barn
 - <5 % in three-row

Mastitis control – market 100% milk

- Full prep
- Test clinicals on tri-plate incubator
- Enterobacter / E coli – treat
- Klebsiella and Pseudomonas – not treated
- Zero antibiotics used for 44 months!





TMR Tracker

- Tracks variances from formulation
- Tracks ingredient usage
- Very user friendly
- 2 people feed each morning, 3.5 hours (7 labor hours)



Lameness prevention

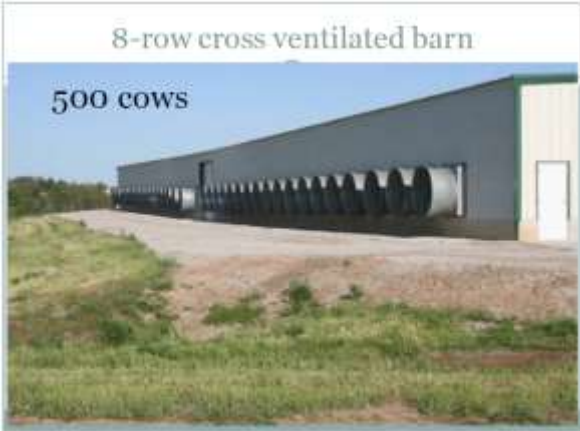
- Scrape alleys every day in all groups
- Dry alleys best for foot health
- Scrape lactating groups at every milking
- Copper sulfate footbath 1x week
- Soap/chlorine footbath 2x week

Lameness prevention

- Long term solution is genetics
- University of Wisconsin School of Veterinary Medicine research shows you should select for:
 - Moderate heel depth (select 0 to .5 linear)
 - Slightly spread toe

Research footnote

- Journal of Dairy Science - 96:3713-3722
- American Dairy Science Association 2013
- Sire predicted transmitting ability for conformation and yield traits and previous lactation incidence of foot lesions as risk factors for the incidence of foot lesions in Holstein cows
- G. Oikonomou (Cornell University), NB Cook and RC Bacalho (Univ. of Wisconsin-Madison)



Influential sires at Rosy-Lane since 1980
Selection for PL since 1992

- Bell
- Mark
- Blackstar
- Mountain
- Manfred
- Duster
- Lynch
- Oman
- Ramos
- Shottle
- Planet
- Freddie
- Shamrock

Hoard's Dairyman

Rosy-Lane bred bulls:

- Bowie No. 1 -- DPR proven
- Bowie No. 1 -- calving ease proven
- Barney No. 50 -- NM\$ proven

Genetic Program * Genomic bulls

	Fat	Protein	DPR	CE	GNM\$
• Supersire	110	71	.9	7.6	936
• Mogul	90	43	-1.2	6.2	705
• Delta*	89	53	1.6	6.8	903
• Supershot*	75	68	3.4	8.6	872
• Everglade	77	50	3.1	5.2	705
• Profit*	66	50	2.7	6.4	825
• JoSuper*	94	75	0.4	7.5	842
Average	86	59	1.6	6.9	827



10090

- \$1143 DWP\$
- 11.0PL
- 53 Protein, 73 Fat
- 4.4 DPR
- 6.9 Sire Calving Ease
- 3.8 Daughter Stillbirths
- Delta x Supersire x Yano x Shottle x Oman

**Dam of
Rosy-Lane Gr8M8
More than 198,000 lbs.
lifetime milk**



9 years progress at Rosy-Lane

	2007	2016
• Cows	695	970
• Milk	28,498 lbs.	30,030 lbs.
• Fat & Protein	1905 lbs.	2255 lbs.
• Vet cost/cwt. milk	\$96	\$32
• Services/conception	3.1	2.0
• DOA	8.6%	4.1%
• % Milking treated	0.9%	0%
• Lbs milk/ lbs. feed	1.62	1.69

Summary

- A total management program needs to create wealth
- One practice must integrate & complement other practices
- It's a puzzle in progress!



