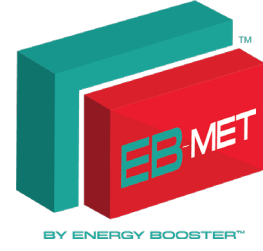


EB-LYS™ & EB-MET™ Dairy Trial

12-14-18 to 2-5-19

MIDWEST
DAIRY

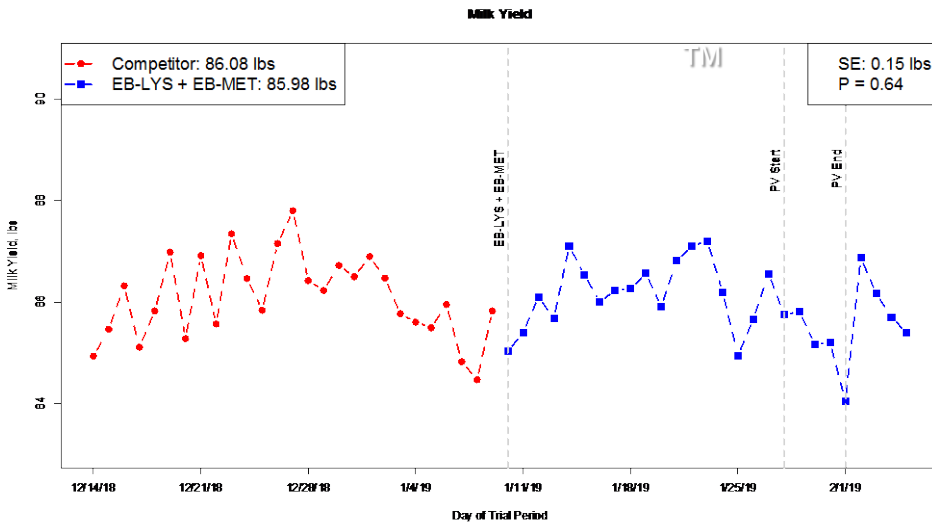


TRIAL SUMMARY

- Saved **\$73.00** per cow per year
(365 days/year x \$0.20 savings/cow/day)
- 5,500 cows in the trial
- Cost savings of **\$32,720** per month were realized by switching to **EB-LYS™ & EB-MET™**
- \$32,720 over 30 days = \$1,090.67 savings/day
- \$1,090.67 per 5,500 cows = \$0.20 savings/cow/day

KEY TRIAL DATES

- **12-14-18 to 2-5-19** | Trial Period
- **12-14-18** | Started Trial with competitor's product
- **1-8-19** | Switched from competitor to **EB-LYS™ & EB-MET™**
- **1-28-19 to 2-1-19** | POLAR VORTEX
Competitor experienced 5 days w/ below avg. temps
EB-LYS™ & EB-MET™ experienced 17 days w/ below avg. temps



KEY RESULTS

- **Milk Yield** | No difference
 - **EB-LYS™ & EB-MET™** – 85.98 lbs.
 - Competitor – 86.08 lbs.
- **Milk Protein** | No difference
 - **EB-LYS™ & EB-MET™** – 3.04%
 - Competitor – 3.05%
- **Milk Fat** | Slight decrease
 - **EB-LYS™ & EB-MET™** – 4.18%
 - Competitor – 4.26%

FEEDING INFORMATION

- Cows received 0.105 lbs. (~47.7 grams) /cow/day of **EB-LYS™** for the trial period
- Cows received 0.055 lbs. (~25 grams) /cow/day of **EB-MET™** for the trial period
- Competitive products were replaced by deliverable lysine and methionine by the nutritionist

CONCLUSION

- Both milk yield and milk protein maintained
- Significant cold stress during trial (Polar Vortex)
- Slight decrease in fat test corresponded to change in ground corn source and extreme cold weather
- **EB-LYS™ & EB-MET™** performed as expected and saved the Dairy significant dollars