



**Consistently maximize
feed efficiency, breeding
and productivity.**



**ANIMALS FIRST.
PRODUCTIVITY ALWAYS.**

At Arm & Hammer Animal Nutrition we use science

to unlock the power of nature to create solutions that are designed to optimize animal productivity.

Our expert team can help troubleshoot challenges and translate science into an action plan, always remaining focused on **Animals First. Productivity Always.**

Achieve greater lifetime productivity.

FERMENTEN™ delivers more metabolizable protein (MP) to the small intestine—as much as 8%—to aid in nutrient utilization to boost production and improve feed efficiency. Metabolizable protein, the ideal form of protein, is digested postruminally and supplies essential amino acids to the cow.

It's the safe, consistent route to more MP, and uses no animal byproducts.

The FERMENTEN advantage:

- 1 Heifers grow faster—leading to earlier breeding
- 2 Improves feed efficiency and production performance in lactating cows
- 3 Consistent quality and essential nutrients for full value and repeatable results

Helping nutrients reach their full potential.

RUMEN BACTERIAL PROTEIN



RUMEN BYPASS PROTEIN



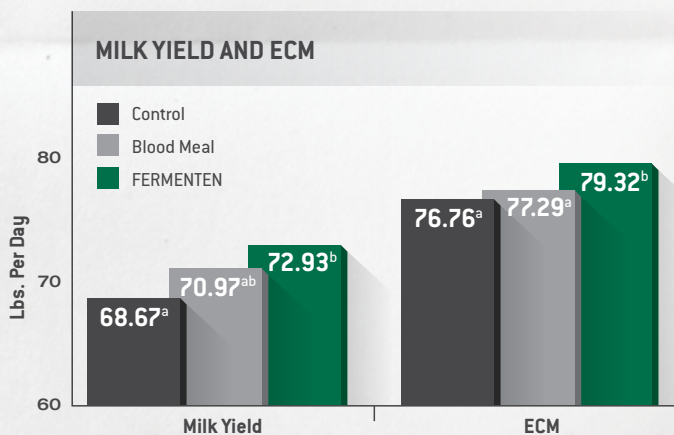
METABOLIZABLE PROTEIN AND AMINO ACIDS

Improved protein status delivers:

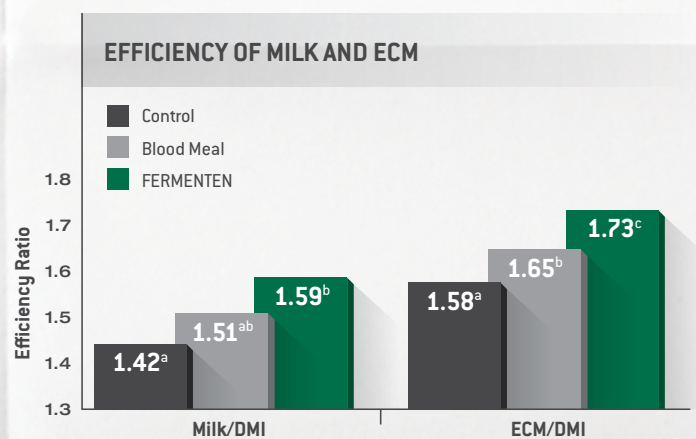
- Milk component production
- Growth
- Health

More milk. Greater efficiency.

Research¹ conducted in 2012 showed an improvement in milk yield, energy-corrected milk (ECM) and feed efficiency in cows fed FERMENTEN compared to the control and blood meal diets.



a, b, ab Indicates significant difference ($P < 0.05$)

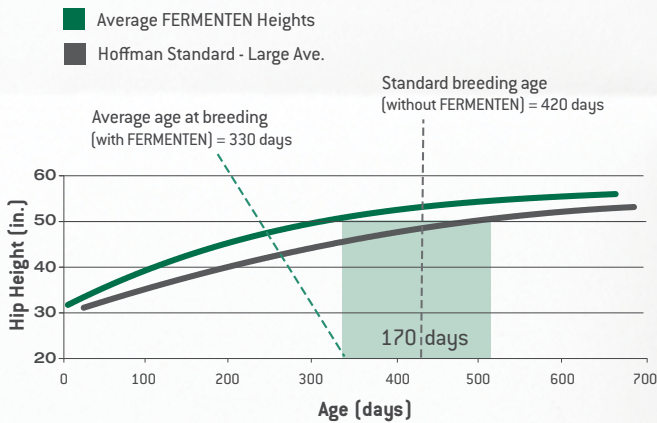


a, b, ab, c Indicates significant difference ($P < 0.05$)

A quicker journey from birth to breeding.

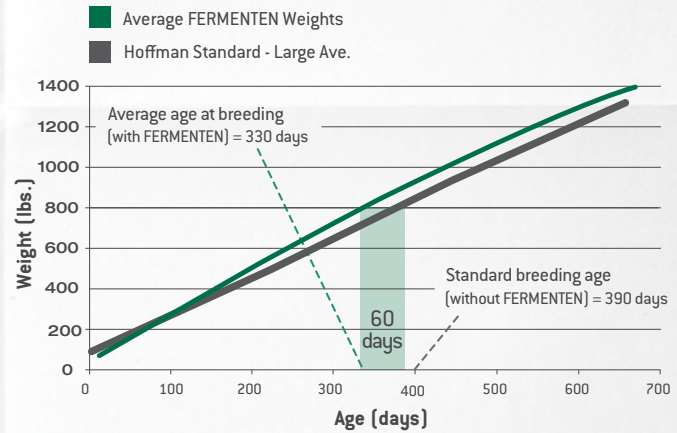
An on-farm trial² conducted on a large dairy in the north central U.S. fed FERMENTEN to 2,200 heifers from weaning to calving at a rate of 3% of ration dry matter.

FERMENTEN HEIFERS MET BREEDING HEIGHT AT 11 MONTHS



- Heifers fed FERMENTEN reached breeding height approximately 170 days sooner than heifers not fed FERMENTEN and 90 days sooner than the Hoffman Standard
- Breeding weight was reached approximately 60 days sooner than the Hoffman Standard

FERMENTEN HEIFERS MET BREEDING WEIGHT AT 11 MONTHS

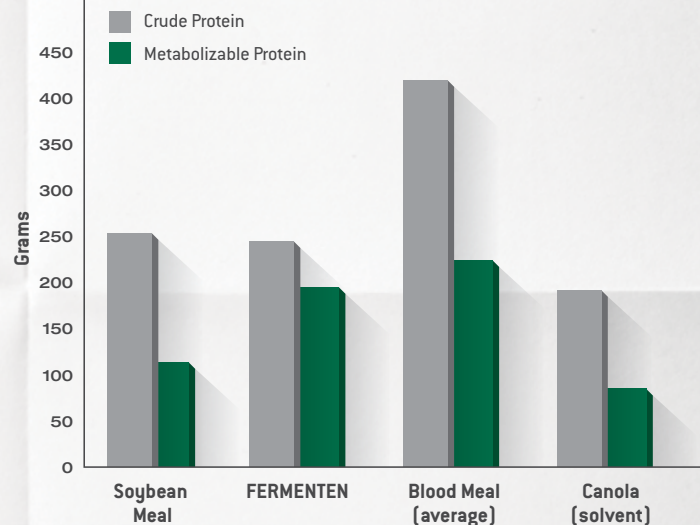


- Reaching breeding size three months earlier resulted in²:
 - + Earlier calving with no negative impacts on health or production
 - + More lifetime productivity
 - + Improved profitability

Maximize MP: make sure you're getting the best value.

- Feeding similar levels of crude protein (CP) delivers vastly different MP levels, which can lead to unnecessary overfeeding protein
- FERMENTEN drives MP production to deliver the best value

CP LEVELS VS. MP DELIVERED*



* Values based on the increase in MP predicted in CPM Dairy [v5.0] by adding one pound of each supplement to a high-producing cow's diet.

Recommended feeding rates.

For feeding rates and considerations, work with your nutritionist to review ration MP estimates and account for increased bacterial protein production from FERMENTEN™. Feed FERMENTEN as a primary protein source at a rate of 3% of total ration dry matter. Typical inclusion rates based on current and historical use:

COWS	Up to 3% ration dry matter	HEIFERS	2 – 2.5% ration dry matter
-------------	----------------------------	----------------	----------------------------

More products to help you get the job done.



We're a global, multi-species, animal nutrition team.

We use scientific research to unlock the power of nature to create products that focus on your **Animals First. Productivity Always.** To learn more about FERMENTEN contact your nutritionist, veterinarian or Arm & Hammer Animal Nutrition representative or visit AHanimalnutrition.com.

1 Block E, Evans E, Clark N. New Solutions Can Replace Blood Meal as Amino Acid Source. Arm & Hammer Animal Nutrition Research Bulletin. Data on file.

2 Corbett WJ. Bown Dairy Heifer Growth Study. Data on file.