

## Lactation:

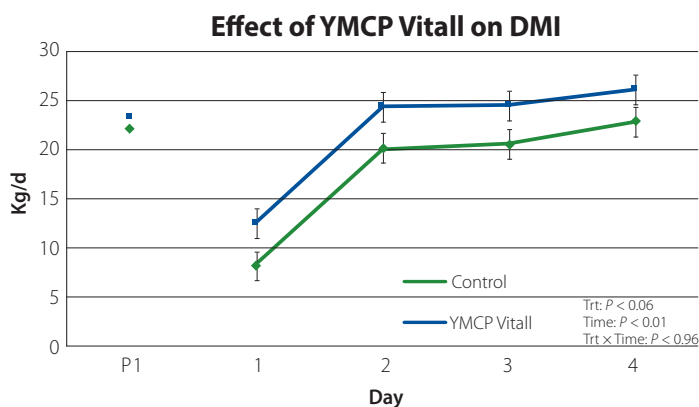
Maximize peak milk production and lactation performance due to a healthy start.

The transition from gestation to lactation is a tremendous challenge for dairy cattle that requires metabolic and hormonal adjustments. These adjustments challenge a cow's health and productivity. Early and effective management for the freshening period can mitigate negative effects. The YMCP® family of products are specifically designed for the fresh cow by supporting feed intake, energy balance, and ultimately leading to improved lactation performance.

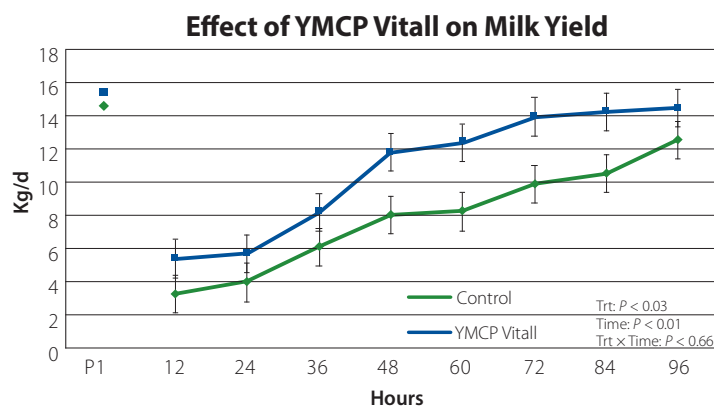
### Preparing the fresh cow for lactation

The freshening period is characterized by reduced dry matter intake (DMI) prior to freshening (20% - 40%) and a slow rate of increase after freshening. The YMCP family of products encourage feed intake, helping prepare cows for the new diet, new environment and new routine. Nutrients such as Magnesium, Calcium, Potassium and Niacin, help meet the requirements needed for lactation.

### Effects of YMCP Vitall® on post-absorptive production following lypopolysaccharide (LPS) challenge

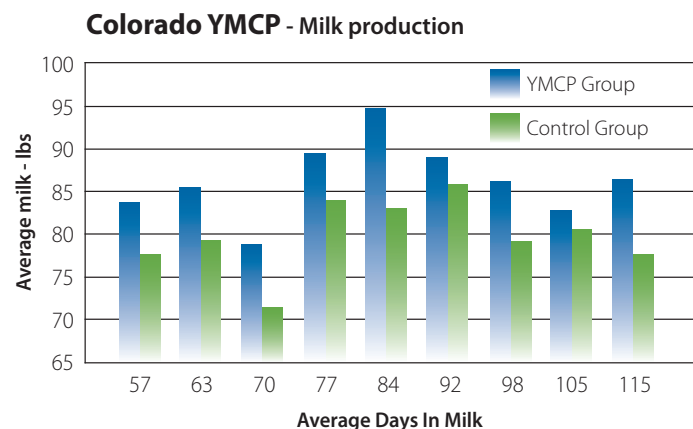


**16 percentage point increase over Control**



**Improved Milk Yield by 7.3 kg/day (16.1 lbs)**

\*Al-Qaisi, M., et al., Res. Vet. Sci., 129 (2020): 74-81



### Results:

- **YMCP Cows reached peak sooner**  
(and at higher levels)
- **+6.4 pounds (2.9 kg) daily milk advantage**  
(average for YMCP supplemented cows)



## Lactation

### YMCP Family of products shows improved lactation performance

Data collected over decades shows cows supplemented with YMCP have consistently improved production in various regions and under differing conditions.

#### South Dakota Dairy - impact of Fresh Cow YMCP on milk production when given at freshening

Milk Production/Peak Milk	YMCP Group (n=183)	Control Group (n=190)
Lactation 1	76 lbs.	75 lbs.
Lactation 2	106 lbs.	104 lbs.
Lactation 3 and greater	111 lbs.	108 lbs.
<b>Average</b>	<b>97 lbs.</b>	<b>95 lbs.</b>
<b>ME 305 Milk</b>		
Lactation 1	24,658	24,499
Lactation 2	27,849	26,282
Lactation 3 and greater	25,996	24,884
<b>Average (weighted)</b>	<b>25,986</b>	<b>25,088</b>

#### Results:

##### +2 pound peak milk

(YMCP advantage being enhanced in second lactation and mature cows)

##### +898 lb ave. ME 305 Milk

(projected advantage of YMCP over 3 years)

#### Field Demonstration

The trial was conducted among a group of 373 fresh cows. Fresh Cow YMCP powder, 1 pound, was provided in a 5 gallon pail of warm water immediately following calving.

#### Arizona - impact of YMCP on milk production

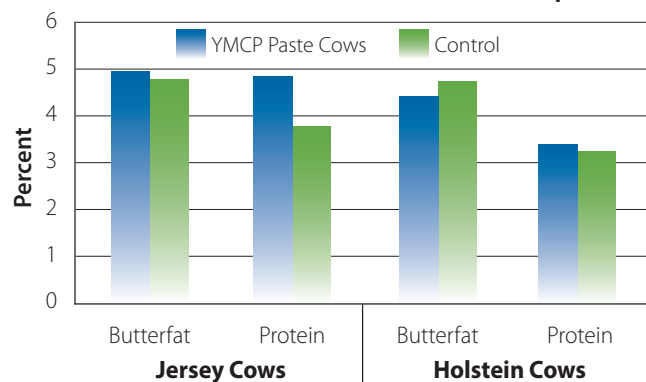
Fresh Cow YMCP Group (n=272)		Control Group (n=285)	
1st Test	86.5 lbs	1st Test	76.5 lbs
2nd Test	94 lbs	2nd Test	96.3 lbs
Peak Milk	98.3	Peak Milk	95.3

#### Field Demonstration

*Fresh Cow YMCP Group* of 272 cows received a 1 pound supplement of Fresh Cow YMCP and 4 gallons of water.

*Control Group* of 285 cows did not receive the supplement.

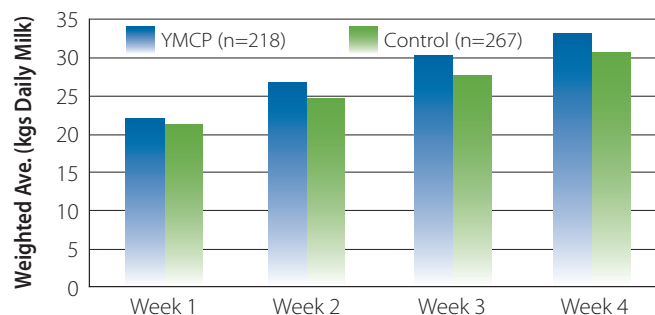
#### South Dakota - Effect of YMCP Paste on milk components



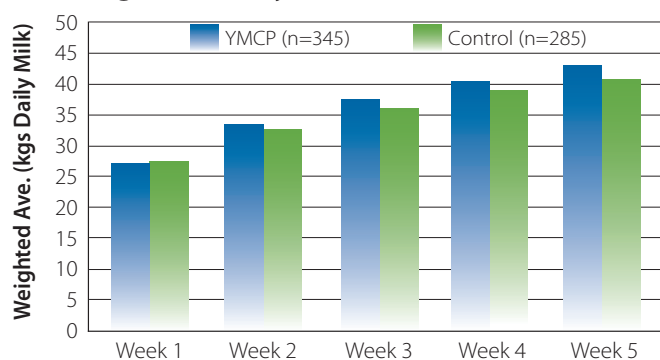
#### Field Demonstration

For a one month period, 237 fresh cows were randomly selected to be a part of either the Control Group or those that were given one tube of Fresh Cow YMCP Paste immediately post-calving.

#### Milk Weight Summary - Heifers - (11 herd composite)\*



#### Milk Weight Summary - Cows - (12 herd composite)\*



\*Mike Hutjens, University of Illinois



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**YMCP®**  
Family of products

