



META-ANALYSIS: LACTATING DAIRY COWS

A statistical study of the effects of feeding Diamond V Yeast Culture™ on milk production and dry matter intake in lactating dairy cows

RESEARCH SUMMARY

A summary of a meta-analysis completed by Bovine Research Australasia that evaluated Original YC™, XP™ and XPC™ and their influence on milk production and dry matter intake (DMI).

- A meta-analysis is a highly sophisticated statistical method of reviewing a compendium of research on a specific topic and this study provides a more precise estimate of the effect of utilizing Diamond V products in dairy rations.
- The analysis reviewed 60 trials involving Diamond V products. Of those studies 32 research papers comprising data from 49 milk production and 28 DMI trials met the criteria for evaluation.
- The meta-analysis reviewed results within each study and calculated a weighted average across studies to arrive at a statistically significant result.

RESULTS

- **Increased DMI**
 - 0.25 kilograms per cow per day throughout lactation
 - 0.31 kilograms per cow per day during early to mid lactation [<150 days in milk (DIM)]
- **Higher milk production**
 - 0.93 kilograms per cow per day throughout lactation
 - 0.92 kilograms per cow per day during early to mid lactation
 - 0.96 kilograms per cow per day during late lactation (>150 DIM)

Summary of weighted mean differences of Diamond V Yeast Culture on milk production and daily dry matter intake (DMI)

Outcomes	Difference in milk yield		Difference in DMI ^a	
	kg/hd/d	P-value	kg/hd/d	P-value
Milk Yield	0.93	<0.0001	0.25	0.13
Early-Mid lactation	0.92	<0.0001	0.31	0.05
Late lactation	0.96	<0.0001	-0.51	0.62

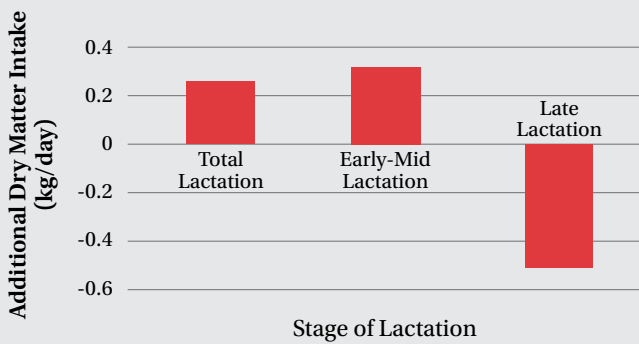
^a Difference = weighted mean difference; comparison of Diamond V to control

RESULTS, CONT.

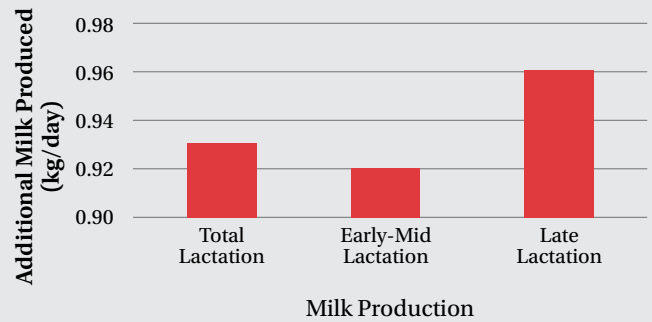
• **Improved feed efficiency**

- The increase in milk production was greater than what the increase in dry matter intake should have caused. This means that Diamond V YC, XP and XPC improved utilization (efficiency) of the dry matter consumed. This was especially evident in late lactation, as late lactation cows tended to consume 0.51 fewer kilograms of feed and produce 0.96 kilograms more milk.

Influence of Diamond V Yeast Culture on Dry Matter Intake during various stages of lactation



Influence of Diamond V Yeast Culture on Milk Production during various stages of lactation



If you would like more information on this study, please contact your local sales representative, call 800-373-7234 or visit www.diamondv.com.



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