



Anwendungsbericht / User application report

Produkt / Product:

Penergetic-t
Spezifikation des Produkts

Fachberater / Consultant:

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Anwender / User:**Datum / Date:**

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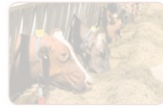
Alberta Hog Operation Experience with Penergetic-w and Penergetic-t

The dugout was treated with 'penergetic w surface water' in August, September and October. The algae around the outside of the dugout disappeared, the smell in the water was significantly reduced and the pH dropped from 8.5 to 7.5. This water from this dugout is used to provide water to the pig barn. The Colony has a 500 sow farrow to finish operation. In addition to treating the water, the pigs were fed penergetic t (for pigs). The colony started using pen-t in early fall feeding it to the baby pigs in a creep ration. They increased the use of pen-t over time different groups of their pigs and after that adding it to all the feed rations provided in the barn and then for a few weeks they discontinued use for a couple of weeks before committing to full use of penergetic t in all their rations. Prior to the results shown below, they have been feeding penergetic t (for pigs) for 3 months to all their pigs. During this time they have dramatically reduced the antibiotics in the feed so that they are using approximately 90% less antibiotics.

Comparing the results of their slaughter hogs for the period January – February, 2012 to January – February, 2013 there were significant noticeable differences in terms of carcass quality, feed conversion, number of days (birth to market) and other factors.

	January and February		November to February	
	2012	2013	2011/2012	2012/2013
Loin Depth	59.42	60.05		
Back Fat	18.10	17.69		
Yield Rate	61.09	61.44		
Lean Rate	79%	79%		
Lean premium per cwt	\$0.76	\$1.21		

<u>Feed cost</u>				
Expenses per cwt	\$81.00	\$68.00	\$88.00	\$81.00
Feed expense per pig sold	\$78.00	\$65.95	\$83.00	\$76.00
Feed conversion for herd	3.07	2.55	3.12	3.05
Feed conversion for growers	2.96	2.46	3.04	2.98



Total feed expense	\$148,000	\$144,000	Note: Used own wheat and barley
Number of pigs sold	1,882	2,190	
Days to from birth to market	205	190	

**Penergetic t (for Pig)_Alberta Operator Results
Percentage (%) Differences in Results Between
Jan-Feb 2012 and Jan-Feb 2013**

	<u>2013 : 2012</u>
Lean Premium per cwt:	59.2% increase
Feed Conversion Ratio:	16.9% better
Expense per cwt:	16.0% lower
Feed Expense per pig sold:	15.4% lower cost
Total days (birth to market):	7.3% fewer days

Notes:

1. Due to the positive results achieved the operator plans to continue using penergetic t (for pigs); yet, since these results presented are based on a short time period (a comparison of the same 2 month periods in back to back years) and since penergetic t (for pigs) was not included in all rations at all times, until the last 3 months, the operator plans to continue evaluating and monitoring performance.
2. As a result of the lower number of days to market (15 fewer days; 7.3% less time!) they have concluded that this frees up space in their barn for more sows and will be adding 50 more sows to their herd.
3. The inclusion rate of penergetic t (for pigs) was 100 grams per finished tonne of feed.

Prepared: March 2013