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## Report on the use of Animal Biosa in a dairy cow herd in Brandenburg, Germany.

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**Preliminary results after Biosa supplementations during the period 01.09.2003 – 30.06.2004, compared to last year's production.**

### **1. Starting position**

The herd consists of 180 dairy cows and is comprised of four different supply ratings. The division of the stable and the feed management allows Animal Biosa to be given to two of the groups and thus a control of the feed absorption of the single animals is not possible.

The compositions of the groups depend on the output and can vary every month.

The herd specification (milk production) per 31.08.2003 is shown in table 1.

There was an average of 32 dry cows, mainly with udder infections.

The addition of Animal Biosa was the only change in the feed and stable conditions.

## 2. Objectives and implementation

A daily dose of 100 ml Animal Biosa per cow was to give a positive influence on the animal's immune system and thus a significant improvement of the milk quality was expected together with a reduction in the size of the deviations. In the end, this should also be verified through an increase in the milk production.

Animal Biosa was distributed over the feed with a watering can.

The research lasted from 01.09.2003 to 01.09.2004. This report shows preliminary results from the first nine months. A conclusive report will follow when we have received the last figures.

## 3. Results after 9 months

After 4 – 6 weeks of regular addition of Animal Biosa the effect is measurable. After between 6 and 22 weeks improvements can be seen and in the following weeks they stabilize at an improved level (see table 1). The figures under "with Animal Biosa" show the average numbers after 9 months, also including the first 3 months of the research.

The number of cows standing dry due to diseases was significantly reduced.

The fertility was highly improved.

Key figures		Without Animal Biosa	With Animal Biosa	Improvement %
Milk-production	Avr. yearly prod, kg	8138	8948	↑10%
	Daily prod. pr. cow, kg	21,0-28,3	25,8-28,6	↑ production ↓fluctuations
	Cell numbers/1000	254-402	166-232	↓ cell numbers ↓ fluctuations
	Body fat percentage	3,55%	3,75%	↑ 6%
	Protein percentage	3,27%	3,52%	↑ 8%
	Urea, mg/l	299	237,3%	↓ 21%
Monthly veterinary expense pr. cow, €	28,9	26,0	↓ 10%	

**Table 1.** The effect after 9 months of addition of Animal Biosa (100 ml/cow/day).

## 4. Profitability

After initial skepticism from the manager's side and hesitations concerning the economical aspects of the starting face, 9 months later great satisfaction was reached due to convincing results (table 2).

Economic gains		Calculation	Results
Cell numbers (1 ct/litre)		150 cows × 5.961 litres = 894.150 litres × 1 ct	8.940 €
Avr. Increase in milk production		150 cows × 819 litres = 122.850 litres × 26 ct	31.941 €
Savings, veterinary expenses		180 cows × 2 € = 360 € × 9 months	3.240 €
Expenses	Animal Biosa	7.500 € for 9 mth. = 27,75 €/150 cow/day	0,15 €/cow/day
	Working hours	Employees/own labour for 9 mth.	2.700 €
<b>Total results</b>		Gains/reductions of expenses: 44.121 € - Added expenses: 10.200 €	<b>33.921 €</b>

**Table 2.** Economic gains by using Animal Biosa.

**In only 9 month the farmer reached economic yields of ~US\$ 245. - per dairy cow.**

### The manager's goals:

- To continue the addition of Animal Biosa
- To expand with 240 cows.