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| --- | --- | --- |
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FutureCow teatscrubbers analysis

at the farm«Senkovo» OJCS «Avangard»

Tab.# 1. Milking duration:

|  |  |  |
| --- | --- | --- |
| Average milking time: | 30.04.2019  Classic scheme | 04.07.2019  FutureCow teatscrubber |
| Morning | 6.00-11.15 | 6.00-10.15 |
| Afternoon | 12.00-13.40 | 12.00-13.10 |
| Evening | 17.00-21.10 | 17.00-20.10 |
| Total milking time: | 11 hours 5 minutes | 9 hours 35 minutes |

Based on the data in table # 1, it can be seen that the average milking time at the farm “Senkovo” decreased by 2 hours 30 minutes per day, which is 75 hours per month. As a result of using the FutureCow teatscrubber, the load on the milking unit has decreased by 150 machine hours in 2 months, which will significantly save on maintenance and repair of the milking unit. The load on milking operators decreased by 75 hours per month, and salaries increased due to improved quality and an increase in the quantity of milk.

Tab. # 2 The quality and quantity of milk sold

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | April | May | | June |  |
| Classic scheme | FutureCow teatscrubber | | FutureCow teatscrubber |
| Milk sales in kg | Premium quality | Premium quality | **Extra** | **Extra** |
| 199 074 kg | 135 378 kg | 114 454 kg | 211 826 kg |
| Somatic cells thousand / ml on average | (460) | (237) | | (170) |
| The cost of milk sold in BYN | 105 509 BYN | 71 750 BYN | 82 406 BYN | 152 514 BYN |
| Additional profit by improving the quality of milk in BYN | **0** | **21 745 BYN** | | **40 247 BYN** | For 2 months  **61992 BYN** |

Тab. #3. Costs for (pre-milking disinfection of udder).

|  |  |  |  |
| --- | --- | --- | --- |
| Name of processing means | When processing in the classical way | When using FutureCow teatscrubber | |
| Udder wipes | 24 packs per month | Brushes for teatscrubber | in quantity 6 |
| Disinfectant before milking | 4 cans per month | Disinfectant for teatscrubbers | Alphacide 30 K 90 L |
| Alphacide Activator 15 L |
| monthly expenses |  | | |
| wipes | 2709 BYN\* | Brushes for teatscrubber | 175 BYN |
| Disinfectant before milking | 832 BYN\*\* | Disinfectant for teatscrubbers | 2944 BYN |
| Total per month | **3541 BYN** |  | **3119 BYN** |

Extra benefit of using FutureCow teatscrubbers per 2 months - **842 BYN**

\*The cost of one package of wipes, not including VAT – 112,9 BYN

\*\*The cost of one can of disinfectant before milking, not including VAT – 208 BYN

Tab. # 4 The incidence of animals with clinical mastitis at the farm “Senkovo”.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | March | April | May | June |
| The number of cows with clinical mastitis | 86 | 75 | 47 | 38 |
| The average loss of milk from cows with clinical mastitis per day | 1341 L | 1170 L | 733 L | 577 L |
| The cost of non-marketable milk from cows with clinical mastitis\* | 12074 L | 10530 L | 6598 L. | 5194 L |
| **8 693 BYN** | **7 581 BYN** | **4 751 BYN** | **3 740 BYN** |
| Clinical mastitis treatment costs \*\* | **2 588 BYN** | **2 257 BYN** | **1 414 BYN** | **1 143 BYN** |
| Lost profit in 2 months | Classic scheme | | FutureCow teatscrubber | |
| **21 119 BYN** | | **11 048 BYN** | |
| Extra benefit of using FutureCow teatscrubbers per 2 months | **10 071 BYN** | | | |

\*9 days - the minimum course of treatment was taken: 4 days of treatment, 5 days after treatment with antibiotics.

\*\*The treatment regimen for one head is 30.10 BYN

Тab.#5. The incidence of animals with subclinical mastitis at the farm “Senkovo”.

|  |  |  |
| --- | --- | --- |
|  | 29.04.2019 | 25.06.2019 |
| Classic scheme | FutureCow teatscrubber |
| The number of cows with subclinical mastitis | 111 | 36 |
| The average loss of milk from cows with subclinical mastitis per day | 5194 L | 1684 L |
| **3740 BYN** | **1213 BYN** |
| Subclinical mastitis treatment costs \*\* | **4488 BYN** | **1455 BYN** |
| Lost profit of subclinical mastitis | Classic scheme | FutureCow teatscrubber |
| **8 228 BYN** | **2 668 BYN** |
| Extra benefit of using FutureCow teatscrubbers | **5 560 BYN** | |

\* According to a DeLaval study, milk loss from a disease of subclinical mastitis is 10% - 30%. For calculations, a loss of 10% was used.

\*\* The treatment regimen for one head is 40.44 BYN

The total benefit when using the FutureCow brush on the farm Senkovo ​​ OJCS «Avangard» for two months is 78,465 BYN. The payback time of the brush is less than three months.