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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

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

Name of processing means	When processing in the classical way	When using FutureCow teatscrubber	
		Brushes for teatscrubber	in quantity 6
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

Tab.#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.