SmartSAMM Gap Calculator

Economic benefits from achieving mastitis control targets

SAMPLE

Herd owner		Herd		Date	
Herd size	300	Annual milksolids (MS)	100,000 kg	Milk price $	$6.50 /kg

STEP 1 **Compare your herds actual (A) with target (B), your desired performance.**

	Actual (A)	Target (B)	Difference (A - B)		
Season average BMSCC	300	150	150	Lower BMSCC x 1,000 cells/mL	(C)
No. of cases of clinical mastitis	60	30	30	Fewer clinical cases	(D)
No. of mastitis culls	15	5	10	Fewer culls due to mastitis	(E)

STEP 2 **Estimate your % milk production gain from lowering somatic cell count from Actual to Target.**

In the table below "Circle the % number" between your Actual (A) and Target (B) BMSCC.

For example moving from Actual 300 to Target 150 gives 2.1% more milk annually.

		Target BMSCC (B) x 1,000 cells/mL		
		100	125	150
Actual BMSCC (A) x 1,000 cells/mL	200	2.1%	1.4%	0.9%
	225	2.5%	1.8%	1.2%
	250	2.8%	2.1%	1.5%
	275	3.1%	2.4%	1.8%
	300	3.3%	2.7%	**2.1%**
	325	3.6%	2.9%	2.3%
	350	3.8%	3.1%	2.6%
	375	4.0%	3.3%	2.8%
	400	4.2%	3.5%	3.0%

STEP 3 **Increased milk production from lower BMSCC from (C) above**

Read off your % number from table above e.g. 2.1% = 2.1/100

2.1 /100 x Annual MS 100,000 kg = 2,100 kg MS gain x Milk price 6.50 $/kg = $ 13,600

STEP 4 **Decreased cost from fewer clinical mastitis cases from (D) above** +

30 **(D) x $150** per case = $ 4,500

STEP 5 **Decreased cost from fewer culls due to mastitis from (E) above** +

10 **(E) x $1,000** per mastitis cull = $ 10,000

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Tip: Round off numbers to the nearest $100

Total $ benefit of achieving your mastitis control targets = $ 28,100

For more information visit dairynz.co.nz/smartsamm