

No. of Cow.	Number of Lactations and Date of Last Calving.	Quarters.	22.4.40.		27.5.40.			24.6.40.		
			PH.	Smear.	Treat-ment.	PH.	Smear.	Treat-ment.	PH.	Smear.
27.....	Four 9.4.40	A B C D		— — — —		6.5 6.5 7.0 6.6	+ + + +	E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3)	6.6 6.6 7.5 6.6	— — CE —
28.....	Four 7.3.40	A B C D		— — — —		6.6 6.6 6.6 6.6	— + + +	E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3)	7.0 7.0 6.8 6.7	CE CE CE CE
29.....	Three 13.3.40	A B C D	6.5 6.7 6.5 6.5	— — — —		6.5 6.5 6.5 6.5	+ + + +	E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3)	6.5 6.5 6.5 6.5	— — + —
30.....	Three 10.3.40	A B C D				6.5 6.5 6.5 6.5	+ + + +	R <sup>1</sup> (3) R <sup>1</sup> (3) R <sup>1</sup> (3) R <sup>1</sup> (3)	6.6 6.6 6.6 6.6	— CE CE CE
31.....	Three 31.10.39	A B C D	6.5 6.5 6.5 6.5	— — — —		6.6 7.0 6.6 7.5	— CE CE +	E <sup>1</sup> (3)	6.8 6.5 6.8 6.8	— — — +
32.....	Three 7.4.40	A B C D		— — — —		6.5 6.5 6.5 6.5	— CE — —		6.6 6.5 6.8 6.6	— — — —
33.....	Three 10.4.40	A B C D				8.0 6.5 6.8 6.5	+ CE + CE	E <sup>1</sup> (3) R <sup>3</sup> (3) R <sup>3</sup> (3)	6.6 7.0 6.8 6.8	— CE + +
34.....	Three 31.3.40	A B C D	6.5 6.5 6.5 6.5	— — — —		6.5 6.5 6.5 6.5	— — — +	E <sup>1</sup> (3)	6.5 6.5 6.5 6.5	— — — —
35.....	Three 7.5.40	A B C D		— — — —		6.5 6.5 8.0 6.8	— — + CE	E <sup>1</sup> (3)	6.5 6.5 8.0 6.6	+ — + CE
36.....	Three 1.3.40	A B C D		— — — —		6.5 6.5 6.8 6.5	— — CE —		6.9 6.6 6.9 6.6	— — — —
38.....	Two 22.11.39	A B C D		+ — — —	E <sup>1</sup> (4)	7.0 7.5 7.0 7.5	CE CE CE CE		6.9 7.0 7.0 8.0	— CE CE CE



EIN HERD—(continued).

26.8.40.		30.9.40.		22.11.40.		19.1.41.		27.4.41.		23.6.41.	
Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.
	— + —	E <sup>3</sup> (2)	— CE —		— CE —		CE CE CE CE		— CE CE —	Dry	CE CE CE CE
	— — + —	E <sup>3</sup> (2)	— + CE —	E <sup>3</sup> (3)	— — CE —		— CE CE —		— — — —	Dry	CE CE CE CE
R <sup>2</sup> (4)	— — — —		— — + —	E <sup>3</sup> (3)	— — — —		— — — —		— — — —		— — — —
E <sup>1</sup> (2) E <sup>1</sup> (2)	— CE + CE	E <sup>3</sup> (2)	CE CE CE —		CE CE CE CE	Dry	CE CE CE CE	Dry	CE CE CE CE	Dry	CE CE CE CE
R <sup>3</sup> (4)	— + — +	E <sup>3</sup> (2) E <sup>3</sup> (2)	— — — —		CE + — —	E <sup>3</sup> (2)	— — — +	A <sup>2</sup> (3)	— CE CE —	Dry	CE CE CE CE
	— — — —		— — — —		— + — —	A <sup>2</sup> (1) E <sup>3</sup> (2) A <sup>2</sup> (1)	— CE — —		— — — —		— — — —
E <sup>4</sup> (4) E <sup>4</sup> (4)	CE — CE —		— — — —		CE CE + —	A <sup>2</sup> (2)	CE CE CE —		— — — —	Dry	CE CE CE CE
	— — — —		— — — —		— — — —		— — — —		— — — —	Dry	CE CE CE CE
R <sup>2</sup> (4) R <sup>2</sup> (4)	CE — + CE	E <sup>3</sup> (2)	— — NS CE		— — CE CE	A <sup>2</sup> (1)	— + — CE	E <sup>3</sup> (3)	CE CE CE CE	Disposed of.	
	— — CE —		— — — —		— — — —		+ — — —	Eu <sup>1</sup> (3)	— — — —		CE — — CE
	— — — CE		— — — CE		CE NS CE NS	Dry Not tested		Calved 6.3.41	— — — —		— — — —

TREATMENT AND CONTROL OF STREPTOCOCCUS MASTITIS.

I.—BRAKFORTEIN HERD

No. of Cow.	Number of Lactations and Date of Last Calving.	Quarters.	22.4.40.		27.5.40.			24.6.40.		
			PH.	Smear.	Treat-ment.	PH.	Smear.	Treat-ment.	PH.	Smear.
39.....	Two	A B C D	7.0 7.0	— —		7.0 6.8	CE +	R <sup>3</sup> (3)	7.0 7.5	CE CE
			Functionless.							
40.....	Two 18.8.39	A B C D	6.4 6.5 6.8 6.4	+ + — +	E <sup>1</sup> (4) E <sup>1</sup> (4)  E <sup>1</sup> (4)	8.0 7.0 8.0 6.8	CE CE CE CE	—	6.7 7.5 6.9 6.7	CE + CE CE
41.....	Two 8.12.39	A B C D	6.5 6.5 6.5 6.5	— — — —		6.5 6.5 6.5 6.5	— — + +	E <sup>1</sup> (3) E <sup>1</sup> (3)	6.5 6.5 6.8 6.6	— — — —
42.....	Two 11.1.40	A B C D	6.5 6.8 6.4 6.5	— — — —		7.0 7.0 6.6 6.6	CE + — —	E <sup>1</sup> (3)	6.5 7.5 6.5 6.5	— CE — +
43.....	Two 19.1.40	A B C D	8.0 6.5 6.5 6.8	— — — —		8.0 7.0 7.0 7.0	CE CE + CE	E <sup>1</sup> (3)	7.0 6.7 8.0 6.8	CE — CE CE
44.....	Two 7.3.40	A B C D	6.5 6.8 6.5 6.6	— — — —		6.5 6.5 6.3 6.5	— — — +	E <sup>1</sup> (3)	6.5 6.5 6.5 6.7	— — — —
45.....	Two Feb., 1940	A B C D	6.7 6.5 8.0 6.6	— — — —		7.0 8.0 6.8 8.0	CE CE CE CE		6.7 6.9 7.0 6.7	— CE CE —
46.....	Two 15.3.40	A B C D	6.5 6.5 6.5 6.5	— — — —		6.5 6.5 6.5 6.5	+ + + +	E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3)	6.8 6.5 6.5 6.9	— — — —
47.....	One 7.11.39	A B C D	Not tested			6.5 6.8 6.8 6.5	— + + +	R <sup>3</sup> (3) R <sup>3</sup> (3) R <sup>3</sup> (3)	6.5 6.5 7.5 6.8	— — + +
49.....	Two 2.9.39	A B C D		— — — —		6.5 6.5 6.5 6.5	— — + +	E <sup>1</sup> (3) E <sup>1</sup> (3)	6.6 6.5 6.6 6.6	— — — —
52.....	One 9.10.39	A B C D	Not tested			6.5 6.5 6.5 6.5	+ — CE —	E <sup>1</sup> (3) E <sup>1</sup> (3)	7.0 6.8 7.0 6.8	CE + CE —



D—(continued).

26.8.40.		30.9.40.		22.11.40.		19.1.41.		27.4.41.		23.6.41.	
Treat-ment.	Smear.	Treat-ment.	Smear.	Treat-ment.	Smear.	Treat-ment.	Smear.	Treat-ment.	Smear.	Treat-Dent.	Smear.
Discard ed.											
E <sup>1</sup> (4) Calved 15.8.40	— — —		— — —		— — —		— — —		— — —		Not tested.
	— — CE +	E <sup>3</sup> (2)	— — —		— — —		— — CE CE		— — CE —	Dry	CE CE CE CE
E <sup>1</sup> (4)	— — — +	E <sup>2</sup> (2)	— — —		— — + +	E <sup>3</sup> (2) E <sup>3</sup> (2)	— — —		— — —		+ — — —
	CE CE + —	E <sup>3</sup> (2)	— — CE —		CE CE + CE	Dry E <sup>3</sup> (2)	CE CE CE CE	Calved 16.2.41	— — — —		Disposed of.
	— — — —		— — — CE		CE — — CE		— — — CE		— — — CE	Dry	CE CE CE CE
	— — + —	E <sup>2</sup> (2)	— — — —		CE CE CE CE		— — — —	Dry	CE CE CE CE		Disposed of.
	— — — —		— — — —		— CE + +	E <sup>3</sup> (2) E <sup>3</sup> (2)	+ CE — +	Eu <sup>1</sup> (3) Eu <sup>1</sup> (3) Eu <sup>1</sup> (3) Eu <sup>1</sup> (3)	— — — —	Drying off	CE CE — CE
E <sup>4</sup> (4) E <sup>4</sup> (4)	— CE CE	Sterilised.	— — —		— — — CE		— — — CE		— — — —		— — — —
Calved 10.8.40	— — — —		— — — —		— — — +	E <sup>2</sup> (2)	— — — —		CE CE — —		— — — —
E <sup>1</sup> (4)	— — — —		— — — —		NS + CE CE	E <sup>3</sup> (2) Drying off	CE CE CE CE	Dry	CE CE CE CE	Dry	CE CE CE CE

## TREATMENT AND CONTROL OF STREPTOCOCCUS MASTITIS.

## I.—BRAKFORTEIN HERD

No. of Cow.	Number of Lactations and Date of Last Calving.	Quarters.	22.4.40.		27.5.40.			24.6.40.		
			PH.	Smear.	Treatment.	PH.	Smear.	Treatment.	PH.	Smear.
53.....	One 14.3.40	A B C D		— — — —		6.5 6.5 6.5 6.7	— — — +		6.6 6.6 6.8 7.0	+ — + CE
54.....	One 14.1.40	A B C D	6.7 6.5 6.5 6.5	— — — —		6.6 6.6 6.6 6.6	— CE — —		6.7 6.9 6.7 6.5	+ — — —
60.....	One 30.1.40	A B C D	6.5 6.6 6.6 6.8	— — — —		6.5 6.5 6.5 6.5	— + + +	E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3)	6.5 7.0 7.0 7.5	— CE CE CE
61.....	One 16.1.40	A B C D		— — — +	E <sup>1</sup> (4)	6.5 6.5 6.5 8.5	— — — +		6.5 6.5 6.5 7.5	— — — +
62.....	One 23.4.40	A B C D	Dry			6.5 6.5 6.5 6.5	— — — —		6.6 6.7 6.7 6.6	— — — —
63.....	One 3.3.40	A B C D	Not tested			6.8 7.0 6.8 7.0	— — + +	E <sup>1</sup> (3) E <sup>1</sup> (3)	6.5 6.6 7.5 6.8	— — CE —
64.....	One 8.3.40	A B C D		— + — —	E <sup>1</sup> (4)	6.5 6.9 6.5 6.7	+ + + —	R <sup>1</sup> (3) R <sup>2</sup> (3) R <sup>1</sup> (3)	6.8 6.5 6.8 6.5	CE + — —
65.....	One 25.3.40	A B C D		— — — —		6.5 6.5 6.5 6.5	— — — —		6.5 6.5 6.5 6.5	— — — —
66.....	One 17.5.40	A B C D	Not tested			6.5 6.5 6.5 6.5	— — — —		6.5 6.5 6.5 6.5	— — — —
69.....	— 11.4.40	A B C D		— + — +	E <sup>1</sup> (4) E <sup>1</sup> (4)	7.0 7.5 6.5 6.5	CE + — —	R <sup>2</sup> (3) R <sup>2</sup> (3)	6.8 6.7 6.5 6.5	+ + — —
70.....	— 22.5.40	A B C D	Dry			6.5 6.5 6.5 6.5	— — — —		7.0 7.0 7.0 7.0	— — — +
72.....	One 26.7.39	A B C D		+ — — —	Not tested.			E <sup>1</sup> (3)	8.0 6.6 6.5 6.6	CE — — —



IN HERD—(continued).

26.8.40.		30.9.40.		22.11.40.		19.1.41.		27.4.41.		23.6.41.	
Treat- ment.	Smear.	Treat- ment.	Smear.	Treat- ment.	Smear.	Treat- ment.	Smear.	Treat- ment.	Smear.	Treat- ment.	Smear.
E <sup>1</sup> (4)	CE		—		—		—		—	Dry	CE
E <sup>1</sup> (4)	+	E <sup>3</sup> (2)	—		—		—		—		CE
	—		—		—		—		—		CE
E <sup>1</sup> (4)	—		—		—		—		—		—
	—		—		—		—		—		—
	—		—		—		—		—	Dry	CE
	+	E <sup>3</sup> (2)	—		—		—		—		CE
	—		—		—		—		—		—
E <sup>4</sup> (4)	+	E <sup>3</sup> (2)	+	E <sup>3</sup> (3)	—	A <sup>2</sup> (2)	CE	Eu <sup>1</sup> (3)	—	Calved 16.6.41	—
	—		—	E <sup>3</sup> (3)	+		CE		—	Eu <sup>1</sup> (3)	—
	—		—		—		—		—		—
	—		—		—		—		—		—
	—		—		+	E <sup>3</sup> (2)	—		—		—
E <sup>1</sup> (2)	+	E <sup>3</sup> (2)	—		—		—	Calved Feb. '41	—		+
	+	E <sup>3</sup> (2)	NS		CE		CE	E <sup>3</sup> (1)	—		CE
	—		—		—		—		CE		—
E <sup>4</sup> (4)	+	E <sup>3</sup> (2)	—		—		CE		—	Dry	CE
	—		—		—		—		—		CE
	—		—		—		—		—		CE
	+	E <sup>3</sup> (2)	—		—		—		—	Dry	CE
	—		—		—		—		—		CE
	—		—		—		—		—		CE
	—		—		—		—		—		—
	—		—		—		—		—		—
E <sup>1</sup> (4)	CE		CE		CE		CE	E <sup>3</sup> (3)	—	Dry	CE
E <sup>1</sup> (4)	CE		CE		CE		CE	E <sup>3</sup> (3)	—		CE
	—		—		—		—	E <sup>3</sup> (3)	—		CE
	—		—		—		+	E <sup>3</sup> (3)	—		CE
	—		—		—		—		—	Dry	CE
	—		—		—		—		—		CE
E <sup>1</sup> (4)	+	E <sup>3</sup> (2)	+	A <sup>1</sup> (3)	CE		NS		NS		CE
	—		—		—		—		—		CE
	—		—		—		—		—		CE
	—		—		—		—		—		NS
	NS		NS		NS		NS		NS	Calved 5.5.41	—
	CE		—		—	Dry	CE	Dry	CE		—
	—		—		—		—		—		—
	CE		—		—		CE		CE		—

←

39-40a

39-40b

No. of Cow.	Number of Lactations and Date of Last Calving.	Quarters.	22.4.40.		27.5.40.			24.6.40.		
			PH.	Smear.	Treat-ment.	PH.	Smear.	Treat-ment.	PH.	Smear.
73.....	Three 29.5.40	A B C D	Not	tested		Not	tested		6.5 6.9 6.5 6.9	— — — —
75.....	— 7.6.40	A B C D	Not	tested		Not	tested		6.5 6.5 6.5 6.5	— — — —
78.....	Five 22.6.40	A B C D	Not	tested		Not	tested		6.8 6.8 6.6 7.0	+ + CE +
79.....	Five 29.6.40	A B C D	Not	tested		Not	tested		Not	tested
80.....	Five 2.7.40	A B C D	Not	tested		Not	tested		Not	tested
81.....	Three 4.7.40	A B C D	Not	tested		Not	tested		Not	tested
82.....	One 13.7.40	A B C D	Not	tested		Not	tested		Not	tested
83.....	Four 16.7.40	A B C D	Not	tested		Not	tested		Not	tested
85.....	— 20.8.40	A B C D	Not	tested		Not	tested		Not	tested
87.....	Five 13.8.40	A B C D	Not	tested		Not	tested		Not	tested
88.....	Three 28.8.40	A B C D	Not	tested		Not	tested		Not	tested
90.....	One 22.9.40	A B C D	Not	tested		Not	tested		Not	tested



IN HERD—(continued).

26.8.40.		30.9.40.		22.11.40.		19.1.41.		27.4.41.		23.6.41.	
Treat-ment.	Smear.	Treat-ment.	Smear.	Treat-ment.	Smear.	Treat-ment.	Smear.	Treat-ment.	Smear.	Treat-ment.	Smear.
	- + -	E <sup>3</sup> (2)	+ + -	E <sup>3</sup> (3) E <sup>3</sup> (3) E <sup>3</sup> (3) E <sup>3</sup> (3)	- CE - -		- CE - -		- CE - -	Dry	CE CE CE CE
	+ - + -	E <sup>3</sup> (2) E <sup>3</sup> (2)	- - - -		- - + CE	A <sup>2</sup> (2) A <sup>2</sup> (2)	- - + CE	A <sup>1</sup> (3)	- - + -	Eu <sup>1</sup> (3)	- CE - CE
E <sup>1</sup> (4) E <sup>1</sup> (4) E <sup>1</sup> (4) E <sup>1</sup> (4)	CE - - -		CE - - -		CE - - -		CE - - CE		CE - CE CE		CE - CE CE
	+ + + +	E <sup>3</sup> (2) E <sup>3</sup> (2) E <sup>3</sup> (2) E <sup>3</sup> (2)	- + - -	E <sup>3</sup> (3)	CE CE CE CE		- CE + -	E <sup>3</sup> (3) E <sup>3</sup> (3)	- + + -	Eu <sup>1</sup> (3) Eu <sup>1</sup> (3)	- CE - -
	- - - -		- - - -		- - - -		- - - -		- + - -	Eu <sup>1</sup> (3)	CE CE - CE
	- + + CE	E <sup>3</sup> (2) E <sup>3</sup> (2)	- + + CE	E <sup>3</sup> (3) E <sup>3</sup> (3)	CE + + CE	A <sup>2</sup> (2) A <sup>2</sup> (2) A <sup>2</sup> (2) A <sup>2</sup> (2)	CE - + +	A <sup>1</sup> (3) A <sup>1</sup> (3)	- CE - CE	Disposed of	
	- - - -		- - - -		- + -	E <sup>3</sup> (2) E <sup>3</sup> (2)	- - -		- - - -	Disposed of	
	- CE - +	E <sup>3</sup> (2)	- CE CE CE		- - CE +	E <sup>3</sup> (2)	- CE CE +	Eu <sup>1</sup> (3)	- CE - CE		CE CE - -
	Functionless - + -	E <sup>3</sup> (2)	NS - - -		NS - - -		NS CE - -		NS CE CE CE		NS + CE CE
	+ CE CE Functionless	E <sup>3</sup> (2) E <sup>3</sup> (2) E <sup>3</sup> (2)	+ - + NS	A <sup>1</sup> (3) A <sup>1</sup> (3)	CE CE CE NS	Discarded.					
	Not tested		- - - -		- - CE -		- + - -	Eu <sup>1</sup> (3)	- - - -		- - - -
	Not tested		- - - -		- - - -		- - - -		- - - +	Eu <sup>1</sup> (3)	- - - +



No. of Cow.	Number of Lactations and Date of Last Calving.	Quarters.	26.6.40.		24.7.40.		28.8.40.	
			PH.	Smear.	Treat-ment.	Smear.	Treat-ment.	Smear.
3.....	One 2.9.39	A B C D	6.5 6.7 6.5 6.5	— — — —	Dry		Dry	
6.....	One 10.9.39	A B C D	7.0 6.6 6.7 7.0	CE + — CE	R <sup>1</sup> (3)	— — — —	Dry	
7.....	Four 30.9.39	A B C D	6.6 6.8 6.8 6.9	— + + +	R <sup>1</sup> (3) R <sup>1</sup> (3) R <sup>1</sup> (3)	— — — +	E <sup>1</sup> (3)	— — CE +
9.....	Four 10.11.39	A B C D	6.5 6.7 6.5 6.5	— — — +		— — — +	E <sup>1</sup> (3)	— — — +
10.....	Three 2.11.39	A B C D	6.6 6.8 7.0 6.8	— — CE —		— — — —		— — — —
13.....	Two 18.12.39	A B C D	6.5 6.6 6.5 6.5	+ + + CE	R <sup>1</sup> (3) R <sup>1</sup> (3) R <sup>1</sup> (3) R <sup>1</sup> (3)	— — — —		— — — —
15.....	One 20.1.40	A B C D	7.0 6.8 6.7 6.6	+ + — +	R <sup>1</sup> (3) R <sup>1</sup> (3) — R <sup>1</sup> (3)	+ + — +	E <sup>1</sup> (3) E <sup>1</sup> (3) — E <sup>1</sup> (3)	CE + CE +
16.....	Five 23.1.40	A B C D	6.5 6.5 6.5 6.5	+ + + +	R <sup>1</sup> (3) R <sup>1</sup> (3) R <sup>1</sup> (3) R <sup>1</sup> (3)	+ + + +	E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3)	+ + + +
17.....	Two 28.1.40	A B C D	6.8 6.8 7.0 6.8	— CE CE —		— — + —	E <sup>1</sup> (3)	+ — + —
18.....	Three 19.2.40	A B C D	7.0 6.7 6.7 6.7	CE + + +	R <sup>1</sup> (3) R <sup>1</sup> (3) R <sup>1</sup> (3) R <sup>1</sup> (3)	— + — —	E <sup>1</sup> (3)	CE CE + CE
20.....	Six 28.2.40	A B C D	6.9 6.8 6.8 6.9	+ + + +	R <sup>1</sup> (3) R <sup>1</sup> (3) R <sup>1</sup> (3) R <sup>1</sup> (3)	+ CE + +	E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3)	+ CE CE +



## II.—DIRKO HERD.

3.10.40.		19.11.40.		23.1.41.		22.4.41.		26.6.41.	
Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.
Dry			+ + + -		- CE - -		- - -		- + -
Dry		Dry	CE NS CE CE	Dry	CE NS CE CE	Dry	CE NS CE CE	Dry	- NS -
E <sup>3</sup> (2)	CE CE + CE	E <sup>5</sup> (2) E <sup>5</sup> (2)	CE CE CE CE	Calved 3.1.41	- - - +	A <sup>2</sup> (2) A <sup>2</sup> (1) A <sup>2</sup> (1) A <sup>3</sup> (3)	- - - -		CE CE + +
E <sup>3</sup> (2)	- - +	Dry E <sup>5</sup> (2)	CE - - +	Calved 30.12.40	- + + +	A <sup>2</sup> (3) A <sup>2</sup> (3) A <sup>2</sup> (3) A <sup>2</sup> (3)	- + + +	E <sup>2</sup> (2) E <sup>3</sup> (3) E <sup>3</sup> (3) E <sup>1</sup> (3)	CE CE CE +
Dry		Dry	CE CE CE CE	Dry	CE CE CE CE	Calved 18.3.41	- - - -		- + - -
Dry		Dry	CE CE CE CE	Dry	CE CE CE CE	Calved 19.2.41	- - - -		- - - -
E <sup>3</sup> (2) E <sup>3</sup> (2)	- + + -	E <sup>5</sup> (2) E <sup>5</sup> (2) E <sup>5</sup> (2) E <sup>5</sup> (2)	CE + + CE	A <sup>1</sup> (1) A <sup>1</sup> (2) Dry A <sup>1</sup> (2) A <sup>1</sup> (1)	CE CE CE CE	A <sup>2</sup> (2) A <sup>2</sup> (2) Dry A <sup>2</sup> (2) A <sup>2</sup> (2)	CE CE CE CE	Calved 13.5.41	+ + - -
E <sup>3</sup> (2) E <sup>3</sup> (2) E <sup>3</sup> (2) E <sup>3</sup> (2)	+ + + +	E <sup>5</sup> (2) Dry E <sup>5</sup> (2) E <sup>5</sup> (2) E <sup>5</sup> (2)	+ CE CE +	A <sup>1</sup> (2) Dry A <sup>1</sup> (2) Dry A <sup>1</sup> (2) A <sup>1</sup> (2)	+ CE CE CE	A <sup>2</sup> (3) Dry A <sup>2</sup> (3) Dry A <sup>2</sup> (3) A <sup>2</sup> (3)	CE CE CE CE	Dry	Not tested.
E <sup>3</sup> (2) E <sup>3</sup> (2)	+ - +	E <sup>5</sup> (2) Dry E <sup>5</sup> (2)	CE CE CE CE	Dry	CE CE CE CE	A <sup>2</sup> (2)* A <sup>2</sup> (2) A <sup>2</sup> (2) A <sup>2</sup> (2)	CE + CE CE	Not treated	CE CE - CE
E <sup>3</sup> (2)	CE - CE -	E <sup>5</sup> (2) E <sup>5</sup> (2) E <sup>5</sup> (2) E <sup>5</sup> (2)	CE CE CE CE	A <sup>1</sup> (2) A <sup>1</sup> (2) A <sup>1</sup> (2) Dry A <sup>1</sup> (2)	CE CE CE CE	Dry	CE CE CE CE	Calved 12.5.41	- CE CE -
E <sup>3</sup> (2) E <sup>3</sup> (2)	+ + + +	E <sup>5</sup> (2) Dry E <sup>5</sup> (2) E <sup>5</sup> (2) E <sup>5</sup> (2)	CE + CE CE	A <sup>1</sup> (1) E <sup>6</sup> (1) Dry A <sup>1</sup> (1) A <sup>1</sup> (1)	CE - CE -	A <sup>2</sup> (3) Dry A <sup>2</sup> (3) Dry A <sup>2</sup> (3) A <sup>2</sup> (3)	CE CE CE CE	Not tested.	

\* Calved 23.3.41

← 43-44a

43-44b

TREATMENT AND CONTROL OF STREPTOCOCCUS MASTITIS.

II.—DIRKO HERD—(con)

No. of Cow.	Number of Lactations and Date of Last Calving.	Quarters.	26.6.40.		24.7.40.		28.8.40.	
			PH.	Smear.	Treatment.	Smear.	Treatment.	Smear.
22.....	Four 27.3.40	A B C D	6.7 6.7 6.5 7.5	+ + - CE	R <sup>1</sup> (3) R <sup>1</sup> (3)	+ CE - +	E <sup>1</sup> (3) E <sup>1</sup> (3) - E <sup>1</sup> (3)	- NS - +
23.....	Two 29.4.40	A B C D	6.5 6.6 6.7 7.0	- - + +		+ + + +	E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (3)	- - - +
24.....	One 30.4.40	A B C D	6.7 6.8 6.6 6.5	- - - -		- + - +	E <sup>1</sup> (3) - - E <sup>1</sup> (3)	- - - -
25.....	One 12.5.40	A B C D	6.6 6.5 7.0 3.5	+ - + -	R <sup>1</sup> (3)	+ CE - -	E <sup>1</sup> (3)	- + CE -
26.....	One 13.5.40	A B C D	6.5 6.7 6.5 6.8	+ + - CE	Disposed of.			
27.....	Three 12.5.40	A B C D	6.5 6.5 6.5 6.5	- - - +		CE + - CE	E <sup>1</sup> (3) E <sup>1</sup> (3) - E <sup>1</sup> (3)	- - - -
28.....	One 9.5.40	A B C D	6.5 6.5 6.5 6.5	- CE - -		- + - -	E <sup>1</sup> (3)	- CE - -
34.....	Three 28.8.40	A B C D						- CE CE CE
35.....	One 14.9.40	A B C D						CE CE CE CE
37.....	Three 10.9.40	A B C D						
38.....	One 14.9.40	A B C D						



## DIRKO HERD—(continued).

3.10.40.		19.11.40.		23.1.41.		22.4.41.		26.6.41.	
Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.
E <sup>2</sup> (2)	— NS — CE	Dry	CE NS CE CE	A <sup>1</sup> (2) Dry A <sup>1</sup> (2) A <sup>1</sup> (2)	CE NS CE CE	Dry	CE NS CE CE	Not tested	
E <sup>2</sup> (2)	— — + CE	E <sup>2</sup> (2) E <sup>2</sup> (2)	CE CE CE CE		CE CE NS —	Dry	CE CE CE CE	Calved 18.4.41	— — CE —
	— — — —		— — — —	Dry	CE CE CE CE	Dry	CE CE CE CE	Calved 10.5.41	— — — —
E <sup>2</sup> (2)	— — — +	E <sup>2</sup> (2) E <sup>2</sup> (2)	— CE CE —		— CE CE CE	Dry	CE CE CE CE	Calved 12.5.41	— — — —
	— CE — —		+ — + —	A <sup>1</sup> (2) A <sup>1</sup> (2)		Died.			
	— — — —		— CE — —	A <sup>1</sup> (2)	— CE — —	A <sup>1</sup> (2) Dry	CE CE CE CE	Dry	CE CE NS —
	— + CE —	E <sup>2</sup> (2)	— + CE —	A <sup>1</sup> (1) A <sup>1</sup> (2) A <sup>1</sup> (1) A <sup>1</sup> (1)	— + CE —	A <sup>2</sup> (1) A <sup>2</sup> (3) A <sup>2</sup> (2) A <sup>2</sup> (1)	CE + CE CE	E <sup>4</sup> (1) E <sup>4</sup> (3) E <sup>4</sup> (1) E <sup>4</sup> (1)	— — — —
Not tested		Not tested			CE + CE CE	A <sup>2</sup> (2) A <sup>2</sup> (3) A <sup>2</sup> (2) A <sup>2</sup> (2)	CE CE CE CE		— — — CE
	+ + + +	E <sup>2</sup> (2) E <sup>2</sup> (2) E <sup>2</sup> (2) E <sup>2</sup> (2)	CE + — —	A <sup>1</sup> (1) A <sup>1</sup> (2) A <sup>1</sup> (1) A <sup>1</sup> (1)	— + + —	E <sup>1</sup> (1) E <sup>1</sup> (3) E <sup>1</sup> (3) E <sup>1</sup> (1)	CE CE CE CE	Dry	CE NS NS CE
	— — + —	E <sup>2</sup> (2)	+ — CE +	A <sup>1</sup> (2) A <sup>1</sup> (1) A <sup>1</sup> (1) A <sup>1</sup> (2)	CE + — +	E <sup>1</sup> (2) E <sup>1</sup> (3) E <sup>1</sup> (1) E <sup>1</sup> (3)	CE CE CE CE	Dry	CE CE CE CE

No. of Cow.	Number of Lactations and Date of Last Calving.	Quarters.	26.6.40.		24.7.40.		28.8.40.	
			PH.	Smear.	Treat-ment.	Smear.	Treat-ment.	Smear.
43.....	Two	A B C D						
44.....	Three	A B C D						
45.....	Two	A B C D						
46.....	Two	A B C D						
47.....	Two	A B C D						
48.....	One	A B C D						
50.....	Eight	A B C D						
51.....	Eight	A B C D						
53.....	Eight	A B C D						

47-48b 

47-48a

## DIRKO HERD—(continued).

3.10.40.		19.11.40.		23.1.41.		22.4.41.		26.6.41.	
Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.
			— + — +	A <sup>1</sup> (1) A <sup>1</sup> (2) A <sup>1</sup> (1) A <sup>1</sup> (2)	CE CE CE CE	A <sup>1</sup> (1) A <sup>1</sup> (1) A <sup>1</sup> (2) A <sup>1</sup> (1)	— + — CE	Not tested.	
			— — CE CE		— CE CE +	Discarded.			
		Dry	CE CE CE CE	Dry	CE CE CE CE	Calved 7.3.41	+ + — +	Not treated	CE + NS +
		Dry	CE CE CE CE	A <sup>1</sup> (1) A <sup>1</sup> (1) Dry A <sup>1</sup> (1) A <sup>1</sup> (1)	CE CE CE CE	Calved 18.2.41	— — — CE		— + — CE
		Dry	CE CE CE +	A <sup>1</sup> (1) A <sup>1</sup> (1) Dry A <sup>1</sup> (1) A <sup>1</sup> (2)	CE CE CE CE	A <sup>1</sup> (2) A <sup>1</sup> (2) Dry A <sup>1</sup> (2) A <sup>1</sup> (2)	CE CE NS CE	Dry	CE CE NS CE
		Dry	CE CE CE +	A <sup>1</sup> (1) A <sup>1</sup> (1) Dry A <sup>1</sup> (1) A <sup>1</sup> (2)	CE CE CE CE	A <sup>1</sup> (1) A <sup>1</sup> (1) A <sup>1</sup> (1) A <sup>1</sup> (1)	CE CE + +	E <sup>1</sup> (2) E <sup>1</sup> (2) Dry E <sup>1</sup> (3) E <sup>1</sup> (3)	CE CE CE CE
		Dry	— CE + CE	A <sup>1</sup> (1) A <sup>1</sup> (1) Dry A <sup>1</sup> (1) A <sup>1</sup> (1)	CE CE CE CE	Discarded.			
		Dry	— — — —	Calved 15.12.40	— + — —	E <sup>1</sup> (2)	CE CE CE CE	Not tested.	
		Dry	CE CE CE CE	Dry	— CE — +	Dry	CE CE CE CE	Not tested.	

← 47-48a

47-48b

TREATMENT AND CONTROL OF STREPTOCOCCUS MASTITIS.

II.—DIRKO HERD—

No. of Cow.	Number of Lactations and Date of Last Calving.	Quarters.	26.6.40.		24.7.40.		28.8.40.	
			PH.	Smear.	Treat-ment.	Smear.	Treat-ment.	Smear.
54.....	Seven	A B C D						
56.....	Ten	A B C D						
58.....	Four	A B C D						
60.....	Three	A B C D						
61.....	One	A B C D						
62.....		A B C D						
65.....		A B C D						
71.....		A B C D						

† Calved 6.4.41.



## DIRKO HERD—(continued).

3.10.40.		19.11.40.		23.1.41.		22.4.41.		26.6.41.	
Treat- ment.	Smear.	Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.	Treatment.	Smear.
		Dry	— CE NS CE	Dry	— — + +	Dry A <sup>2</sup> (1) A <sup>3</sup> (1)	— — NS NS	Not tested.	
		Dry	+ — — —	A <sup>1</sup> (2) A <sup>1</sup> (1) Dry A <sup>1</sup> (1) A <sup>1</sup> (1)	CE CE CE CE	Not tested.			
		Dry	— + CE CE	A <sup>1</sup> (1) A <sup>1</sup> (2) Dry A <sup>1</sup> (1) A <sup>1</sup> (1)	CE CE CE CE	A <sup>2</sup> (2) A <sup>2</sup> (2)† A <sup>2</sup> (3)	— — + —	Not tested.	
		Calved 5.10.40	CE + — —	Died.					
		Calved 18.10.40	— — + CE	Not treated.	— + — —	Not treated.	+ CE + CE	Not treated	CE CE — —
		Calved 20.10.40	— — + —	Not treated	CE — — —	Not treated	— — + —	Not treated	— — + —
		Dry			CE + NS +	A <sup>2</sup> (3)† A <sup>2</sup> (3)	— — NS CE	Not tested	
					— — + —	A <sup>1</sup> (3)	CE — CE —		— — — —

† Calved Feb. 1941.



49-50a

49-50b