

**COMPARISON BETWEEN AIR WASH AND NON-AIR WASH
PARLOUR ON BACTERIAL COUNTS AND MASTITIS
INCIDENCE AT DAIRY COW – II**

INTRODUCTION

One parlour had completely installed with Air Wash System. We made three months observations to compared with an ordinary parlour. In this observation we had been made for the following;

- a) Mastitis in each Parlour
- b) Types of Mastitis (Severe)
- c) Total Bacterial Counts

MATERIALS AND METHODS

Two groups of cows arranged to be milk in Parlour I (Air Wash System) and Parlour II (Non-Air Wash). Milk samples collected in both parlours were done two times a day, morning and afternoon in a hygienic way, to be submitted at the Laboratory for Bacterial Counts from complete three months, while in mastitis cases were made two weeks before the start of observations. Mastitis are classified as severe and other types of mastitis.

TABLE I. MONTHLY TOTAL OF MASTITIS

MONTH	PARLOUR I	%	PARLOUR II	%
AUGUST	68 COWS	34.87	127 COWS	65.12
SEPTEMBER	56 COWS	32.94	114 COWS	67.05
OCTOBER	53 COWS	28.80	131 COWS	71.19
T O T A L	177 COWS	32.24	372 COWS	67.76

Table I, shows the Mastitis Cases in three months observation in both Parlours. The Air Wash Parlour have the total of 177 cows with the percentage of 32.24, while in Non-Air Wash Parlour, the total of 372 cows with the percentage of 67.76. Therefore, if we compare to each other, Air Wash Parlour is lower mastitis than Non-Air Wash Parlour with almost 50% difference.

TABLE II. MONTHLY TOTAL OF SEVERE MASTITIS

MONTH	PARLOUR I	%	PARLOUR II	%
AUGUST	03 COWS	37.5	05 COWS	62.5
SEPTEMBER	08 COWS	44.0	10 COWS	56.0
OCTOBER	02 COWS	16.6	10 COWS	83.4
T O T A L	13 COWS	34.21	25 COWS	65.79

Table II, shows the types of Mastitis in Severe Cases. The Air Wash Parlour have the total of 13 Cows severe mastitis, out of 177 cows while in Non-Air Wash Parlour have the total of 25 cows severe mastitis out of 372 cows, with the average of 34.21 and 65.79 respectively.

TABLE III. TOTAL BACTERIAL COUNTS.

MONTHS PARLOUR I – AVE. PARLOUR II – AVE.

MONTH	PARLOUR I - AVE.	PARLOUR II - AVE.
AUGUST	36,000	36,709
SEPTEMBER	24,200	26,500
OCTOBER	49,354	54,935
T O T A L	36,518	39,048

Table III, shows the average of Total Bacterial Counts in parlour. Air Wash System has the total average of 36,518, while in Non-Air Wash Parlour has the total average of 39,048. Therefore Air Wash System shows NON-SIGNIFICANT in T.B.C.

RECOMMENDATION

In comparison of Air Wash and Non-Air Wash Parlour, we found out that Air Wash Parlour has less Mastitis Cases also severity of mastitis is less by almost 50% than Non-Air Wash Parlour. Air Wash System shows NON-SIGNIFICANT in T.B.C.

Therefore Air Wash System is highly recommended to be applied for other parlours to obtain good quality of milk and to minimize the number and severity of mastitis.

Conducted by:



OSCAR N. TABILISMA, B.S. ANI. SC.

Dairy Cow 2 – Mastitis Tech.



EMAD ABDEL MONIEM, D.V.M.

Dairy Cow 2-Miliking Parlour

Supervisor

ABOUT THE AUTHORS

DR. EMAD ABDEL MONIEM AHMAD, a Sudanese nationality, graduated from ASSUIT UNIVERSITY, Egypt with the Degree of Veterinary Medicine, 1980. Presently as MILKING PARLOURS SUPERVISOR – at THE NATIONAL AGRICULTURAL DEVELOPMENT COMPANY, P.O. Box 2557, Riyadh 11460 –Saudi Arabia for almost 10 years from now.

MR. OSCAR N. TABILISMA, a Filipino nationality, graduated from the TARLAC STATE UNIVERSITY, College of Agriculture, Philippines with the degree of B.S. ANI. Sc., 1981. Presently employed as a MASTITIS TECHINICIAN at THE NATIONAL AGRICULTURAL DEVELOPMENT COMPANY, P.O. Box 2557, Riyadh 11461-Saudi Arabia for almost 6 years from now.