

## 9 Anhang

### Anhang I: Melkhygiene-Beobachtungen und Fragebogen 1

#### Periurban and Urban Dairy Production Study

FU - Berlin - Addis Ababa University

#### MILKING HYGIENE OBSERVATION SHEET + QUESTIONNAIRE

- Farm number: \_\_\_\_\_ Location: \_\_\_\_\_
- Type of milking: hand  machine milking
- Milkers wash hands before milking yes  no
- If yes, with water  +soap  desinfectant
- at the beginning of milking  between each cow
- Udder and teats are cleaned dry  / wet  with hands  with cloth
- one cloth for each cow  all cows
- Are teats dried before milking with separate cloth  one cloth  by air
- Is the premilk checked before each milking yes  no
- If yes, by visual control on the floor  into a container  CMT
- Are teats dipped before  after  milking with \_\_\_\_\_; no dipping
- The milker(s) is (are) calm  noisy  rude  during milking
- The cows are calm  nervous  during milking
- Drying off cows is applied abrupt  intermittent
- Drying off therapy is applied no  yes  with \_\_\_\_\_
- Cows with known mastitis are milked at beginning  at end  of milking  
no difference
- Mastitis is a serious  minor  no  problem in the farm
- Mastitis treatment is done by farmer  vet assistant  veterinarian
- Following drug is used for treatment: \_\_\_\_\_

## Anhang II: Hygiene-Beobachtungen und Fragebogen 2

### Periurban and Urban Dairy Production and Reproduction Study FU - Berlin - Addis Ababa University

#### ON - SPOT FARM OBSERVATION - AND DATA - SHEET

No. of farm: \_\_\_\_\_ Area: \_\_\_\_\_ Urban  Periurban

Name of owner: \_\_\_\_\_ Sex M  F  Age: \_\_\_\_\_

Full time farmer  Farming secondary

Attendant is on the farm since: \_\_\_\_\_

Total No. of cows: \_\_\_\_\_ No. of cows lactating: \_\_\_\_\_

Type of farm: Dairy  Mixed farm

If mixed farm: Crop  Beef  Other animals

Type of breed used: HF  Jersey  Crossbred  which: \_\_\_\_\_

Heifer management: self reared  purchased

Estimated lactation period: \_\_\_\_\_ days

Average milk yield/day \_\_\_\_\_ltr x \_\_\_\_\_days = \_\_\_\_\_ltr / lact. period within herd

Quality of data recording: good  medium  poor  no data

Type of housing for animals:

open barn  concrete stable  local hut  kept outside

Ventilation: good  medium  poor

Floor: concrete  soil

Exercise available: yes  no

Farm hygiene: good  medium  poor

Feeding management: grazing available yes  no

type of roughage \_\_\_\_\_

concentrates available yes  no

**Anhang III: Farmempfehlungen**RESULTS OF THE MASTITIS PREVALENCE INVESTIGATION ON FARM

No. \_\_\_\_\_

LOCATION OF FARM: \_\_\_\_\_

NAME OF OWNER: \_\_\_\_\_

DATE OF VISIT: \_\_\_\_\_

PROCEDURE:

The quarter milk of all lactating cows was screened using the *CALIFORNIA-MASTITIS TEST*. Of the positive milk, a sample was taken in order to do a microbiological examination at ILRI laboratory in Debre Zeit.

The following cows in your farm were positive on the *CMT* and gave the below mentioned microbiological results:

COW No.	CMT +,++,+++	DIAGNOSIS

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TOTAL NUMBER OF LACTATING COWS: \_\_\_\_\_

TOTAL NUMBER OF COWS WITH CLINICAL/SUBCLIN. MASTITIS: \_\_\_\_ / \_\_\_\_

PERCENTAGE OF COWS WITH MASTITIS: \_\_\_\_\_ %

THE MASTITIS SITUATION IN YOUR FARM IS:

- ALARMING
- ABOVE AVERAGE
- AVERAGE
- BELOW AVERAGE

NO REASON TO WORRY

IN ORDER TO IMPROVE THE QUALITY OF PRODUCED MILK AS WELL AS THE HEALTH STATUS OF THE DAIRY CATTLE, THE FOLLOWING RECOMMENDATIONS SHOULD BE TAKEN INTO CONSIDERATION:

( those boxes marked are of major relevance )

 IMPROVE HAND WASHING OF MILKERS

1) wash hands with soap between every cow

 IMPROVE UDDER HYGIENE BEFORE / AFTER MILKING

1) wash udder and teats with a separate towel or cloth for each cow

2) use clean fresh water for every cow

3) dry teats and udder with paper towel before milking

4) do teat dipping after milking

 IMPROVE GENERAL HYGIENE IN YOUR FARM

1) remove manure before milking

2) flush the remains of manure with water

3) wash the cows in regular intervals ( i.e. every week once )

4) keep the outside surrounding of barn in a clean and dry condition

 KEEP A CONSISTENT LACTATION PERIOD OF 10 MONTHS (= 305 d) IMPROVE THE VENTILATION OF THE BARN KEEP A STRICT MILKING ORDER

1) those cows who are known to have a mastitis have to be milked at the end

 DO NOT UNDERMILK THE COWS

1) The udderquarters have to be emptied sufficiently until the milk flow obviously reduces to a minimum

 OFFER ENOUGH WATER TO THE COWS

- if there is no permanent access to water, offer it 3 times a day

Comments:

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