

Instruments , tools and equipment use during animal husbandry procedures

Importance of use the tools

Any farm live stock farmer is aware that live stock need tender loving care in order to benefit the owner, so since there are many health challenges to keeping healthy livestock it is essential to also know the basics of good animal care.

It may not come as much surprise that animals respond to tender loving care by coming more productive .

Importance tools for good care of animal

To take good care of animals, to diagnoses if animals are diseased and to treat animals there are some tools that can be useful and practical to have within reach in the following some of the more common tools are listed :-

Mouth Gages :

Mouth gags are surgical devices placed between the upper and the lower jaw to prevent the mouth from closing during operative procedures of the mouth or throat

Uses of mouth gags

There are many uses of this device in animal farm

- 1-Signs of health
- 2-dentition
- 3-diseases detection
- 4-Removal of foreign bodies
- 5-drug administration
- 6-washing and antiseptis of mouth
- 7-rasping of the teeth
- 8-In horse-for application of stomach tube





THERMOMETER

A thermometer is very useful to check body temperature and the veterinary one is very cheap can be found in most agro-vet shops help farmer in judging animal health. If body temperature significantly ($<0.5-1\text{C}^\circ$) higher or lower indicated below there is usually a problem to be solved.



Body temperature in healthy animals

Type of Animal	Normal Body temperature in $^\circ\text{C}$	Upper limit in $^\circ\text{C}$ (any higher temperature is fever*)
Cattle	38.5	39.5
Calves	39.0	40.0
Horses, mules, donkeys	38.0	39.0
Foals	38.5	39.5
Sheep	39.0	40.0
Goats	39.5	40.5
Pigs	39.0	40.0
Piglets	39.5	40.5
Rabbits	39.0	
Dogs	38.5	
Birds	40.5	

Mastitis testing tools

an inflammatory response of the udder tissue in the mammary gland caused due to physical trauma or microorganism infections. It is considered the most common disease leading to economic loss in dairy industries due to reduced yield and poor quality of milk.

1- California Mastitis Test(CMT):

This test consist of a paddle with 4 cups one for each quarter(front left, front-right, left, hind-right) with test solution from CMT bottle, if the mix of milk and test solution stay liquid the quarter is healthy but if the mix show stickiness' indicate mastitis.

2-mastitis detector:-

Device consist from 4 measurement vessel (cups) with tow metal electrodes, electronic unit with LCD panel ,handle containing a standard 9 volt battery marked.

Result reading:

Reading below 250 units subclinical inflammation of udder or high risk of acute mastitis.

Reading over 300 units good condition of a quarter of an udder ,in young and healthy cows results may be higher (370-400) and in older cows they may be (300-320).

Reading from 250-300 units transitional state between subclinical mastitis and a normal condition.



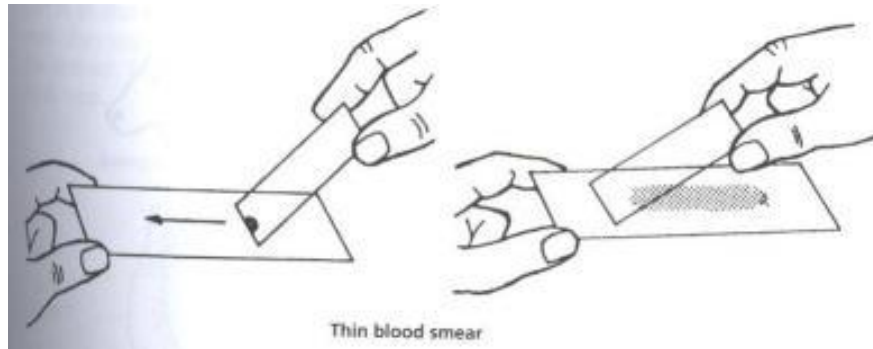
Hoof trimming tools

In some areas and specially where the ground is soft the hooves of animal grow faster so hoof trimming become necessary in order for animal to be able to walk normally ,deformed hooves makes animal walking difficult and painful



Glass slides for making blood smears

Blood samples are useful for examining diseases in cattle such as Babesiosis and Anaplasmosis caused by organisms will show under microscope in a good blood smear.



Burdizzo castrator

Burdizzo castrator is the best and cleanest tool for bulls and rams and bucks . Two different sizes are available (14 for bulls and smaller size for sheep and goats).



Trocar

Trocar for making a hole into the rumen to treat serious cases of bloat .the trocar has an inside tube or canula which left in the wound and anti bloat medicine can be directly administer through this tube into stomach.



Another important tools

- * **Bandages** and clean clothes for cleaning wounds and covering them and for holding broken legs in place
- * **Container** for sterilizing equipment
- * **Rope** which is essential for any livestock keeper very useful for tying up animals or useful hen assisting a cow with difficult birth.
- * **syringes and needles** for injection.
- * **castration rings** mostly for goats and sheep and small new born calves.