

LIVESTOCK SERVICES CO-OPERATIVE SOCIETY



FEED MIXING

By Mercy Nampasa

INTRODUCTION

- 60% of total animal production cost is feed.
- Making your own feed is one way of cutting cost.
- This is possible because certain raw materials can easily be obtained at the farm e.g one can grow maize, soya, sunflower e.t.c.
- One can make his/her own modification to suite his/her situation.

COMPOUNDING OWN FEED

Steps below should be followed

- Have a dependable source of nutritionally good quality and affordable raw materials.
- Easy & simple appropriate techniques for processing , handling & storage of ingredients with minimum loss of feed quality.
- Accurate weighing of each ingredient.

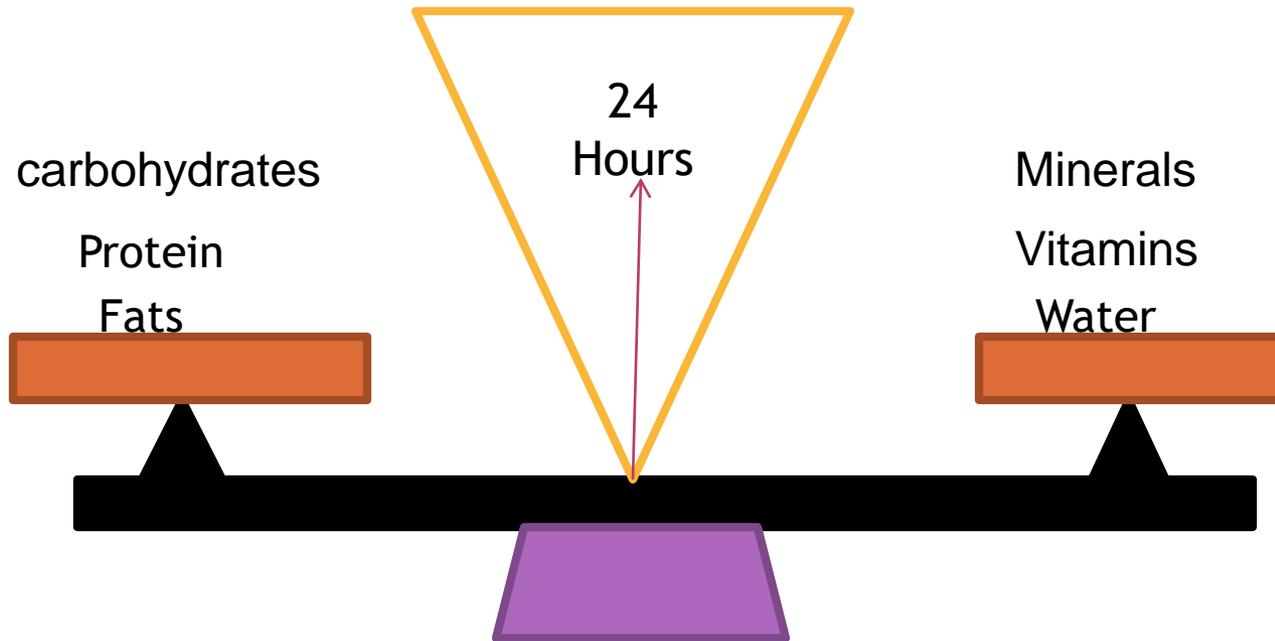
COMPOUNDING OWN FEED CONTINUES..

- ⦿ Thorough mixing of weighed ingredients.
- ⦿ Should be able to interpret each formula accordingly.
- ⦿ More attention to ingredients presented in small quantities. E.g. salt, premix or base mix, e.t.c.

SIMPLE TOOLS TO USE

- ◉ Scale weighing at least more than 50 kg
- ◉ Kitchen scale weighing 5 kg
- ◉ Buckets
- ◉ Scoops
- ◉ Shovels and spades
- ◉ Broom

BALANCED RATION/QUALITY



A balanced ration provides an animal the proper proportions and amounts of all the required nutrients for the period of 24 hours to achieve high fertility, health and production levels.

ABOUT INGREDIENTS/RAW MATERIALS

- Maize, No.3. Maize Meal , Maize Bran, Wheat Bran, Rice Bran
- Sunflower, Soybean(low and full fat),cotton cake.
- Fish meal, Meat and Bone meal, Blood Meal, Poultry Meal
- Premixes, Basemixes, Macropacks and Concentrates
- Additives (Zinc bacitracin, Eskalin,Biotech, Copper sulphate, Avatec, Virbacox, Carophyll, DCP, MCP, fine Limestone , Limestone grit, Lysine, Methionine, etc.).

INGREDIENTS/RAW MATERIALS CONT....

- Vitamin B₂ (riboflavin) deficiency,
- importance of *premix and Vitamin supplements*.



INGREDIENTS/RAW MATERIALS CONT..

- Vitamin B₁ (thiamine) deficiency,
- importance of *premix and Vitamin Supplements*.



INGREDIENTS/RAW MATERIALS CONT....

- Vitamin E deficiency

Another form of deficiency

- Importance of *premix*



INGREDIENTS/RAW MATERIALS CONT....

- Cage layer fatigue (*calcium deficiency*),
- importance of limestone powder/Limestone grit, DCP, MCP



EXAMPLE OF A BROILER FORMULA

Maize	45 kg
Soybean extract (ME)	30 kg
No. 3 Maize meal	22 kg
DCP (Dicalcium phosphate)	0.5 kg
Limestone powder(feed grade)	1.2 kg
DL methionine	0.35 kg
Lysine	0.25 kg
Fine salt	0.35 kg
Broiler premix DSM	0.15 kg
Toxfin	0.1 kg
Avatec	0.06 kg
Total	100 kg
	2X50 kg

REQUIREMENTS FOR FINISHING BROILERS

- Metabolisable Energy(Min, kcal/kg).....2,950
- Crude protein(min %)......18.5%
- Digestible Lysine(min %)......1.11%
- Calcium(min %)......0.6%
- Total Phosphorus(min %)......0.51%

GROUPING OF INGREDIENTS

Grouping is done according to weight

- Above 40%Group A
- Between 5 % and 40 %Group B
- Below 5%Group C

GROUPING CONTINUES...

- Mix each group separately, then divide in half
- For example,
 - After mixing
 - Group A = A_1 and A_2
 - Group B = B_1 and B_2
 - Group C, do not halve, because the amount is small.

CREATING A PILE

- On a concrete floor create a space of 1m in radius.
- Lay piles as follows
 - A₂
 - B₂
 - C
 - B₁
 - A₁

CREATING PILE CONTINUES...

- ◉ Use a shovel or a spade to mix the pile thoroughly.
- ◉ Then pack the feed made in bags
- ◉ Store the feed on planks off the ground in a well ventilated room.

QUESTIONS

- Questions or contributions ????

THANK YOU