

ANNEXURE -Z

Ration/Feeding schedule for various species of livestock and poultry recommended by Animal Husbandry Department, H.P.

(A) FEEDING OF POULTRY

- Chick Starter Ration (0-8 week age):-

Ingredients	Percentage
Maize	40
Rice Bran	25
Groundnut Cake	17
Soybean meal	5.0
Fish meal	8.0
Meat Meal	2.0
Lime Stone	1.5
Common Salt	0.5
Vitamin+ Minerals	1.0

- Grower Ration (8-20 week age):-

Ingredients	Percentage
Maize	45
Rice Polish	35
Groundnut Cake	12
Fish meal	5
Lime Stone	1.5
Common Salt	0.5
Vitamin+ Minerals	1.0

- Layer Ration (>20 week age):-

Ingredients	Percentage
Maize	42

Rice Polish	42
Groundnut Cake	8.0
Fish meal	5.0
Lime Stone	1.5
Common Salt	0.5
Vitamin+ Minerals	1.0

Broiler Ration (0 7 week age):-

Ingredients	Percentage
	45
Rice Polish	20
Groundnut Cake	25
Fish meal	7.0
Lime Stone	1.5
Common Salt	0.5
Vitamin+ Minerals	1.0

POULTRY FEEDING

Scale of feeding :-

Layers/ Dual purpose

Broilers

Poultry birds

0-1 week	10 g	0-1 week	15 g.
1-4 week	25 g.	1-2 weeks	20 g
4-8 weeks	50 g	2-3 weeks	30 g
8-12 weeks	60 g	3-4 weeks	50 g
12-16 weeks	80 g	4-5 weeks	60 g
16-20 weeks	110 g	5-6 weeks	75 g
> 20 weeks	120g	6-7 weeks	90-120g

(B) FEEDING OF HORSES, PONIES AND MULES

□ **Composition of concentrate ration:-**

Maize/ Barley	32%
Black Gram	20%
Groundnut cake	25%
Wheat Bran/ Deoiled Rice Bran	20%
Mineral Mixture	2.0%
Common Salt	1.0%

Scale of Feeding:

Kind of Animal	Concentrate	Salt	Mineral Mixture	Hay or green
Foals 4 months to one year	1.0 Kg	20 gm	20 gm	2 Kg or 6 Kg
Foals 1-2 years	2.0 Kg	30 gm	30 gm	4 Kg or 12 Kg
Horse/ Pony Stallion	3.5 Kg	35 gm	35 gm	5 Kg or 18 Kg
Brood Mares/ Ponies/ mules	3.0 Kg	30 gm	30 gm	6 Kg or 18 Kg
Mare in advance stage of pregnancy (last 10 weeks)	4.0 Kg	45 gm	45 gm	6 Kg or 18 Kg
Jack Stallion	2.0 Kg	20 gm	20 gm	5 Kg or 15 Kg
Jenny	1.5 Kg	20 gm	20 gm	5 Kg or 15 Kg

(C) FEEDING OF SHEEP

□ Composition of balanced concentrate for sheep:-

Sr. No.	Ingredients	Parts
1.	Maize	25
2.	Barley	25
3.	Ground Nut Cake	16
4.	Mustard Cake	5
5.	Deoiled Rice Bran/ wheat bran	26
6.	Mineral Mixture	2
7.	Salt	1

Scale of Feeding:

Sr. No.	Various categories of sheep	Concentrate	Hay	Green/ legume/silage
1.	Lambs (Creep Feeding) (21 days to 45days) (45 days to 90 days)	Upto 150 gm Upto 200 gm	Nil 250 gm	Adlib Adlib
2.	Weaners (a) Indigenous & cross bred (b) Exotic	300 gm 350 gm	1 Kg 1 Kg	0.5 Kg 1 Kg

3.	Hoggets (9 months to 18 months) (a) Indigenous & cross bred (b) Exotic	400 gm 400 gm	1 Kg 1 Kg	1.5 Kg 1.5 Kg
4.	Dry Ewes or Ewes in early pregnancy till last six weeks of gestation (a) Body weight 30-35 Kg (b) Body weight above 35 Kg	300 gm 400 gm	1 Kg 1.5 Kg	1.5 Kg 1.5 Kg
5.	Ewes in last six weeks of gestation (a) Body weight 35-40 Kg (b) Body weight above 40 Kg	400 gm 500 gm	1.5 Kg 2.0 Kg	1.5 Kg 1.5 Kg
6.	Nursing Ewes (a) Body weight 30-35 Kg (b) Body weight above 35 Kg	500 gm 600 gm	1.5 Kg 2.0 Kg	2.0 Kg 2.0 Kg
7.	Breeding Rams (one month before and during breeding season) (a) Indigenous & cross bred (b) Exotic	400 gm 500 gm	1.5 Kg 2.0 Kg	2.0 Kg 2.0 Kg
8.	Breeding Rams (except for one month before and during breeding season) (a) Indigenous & cross bred (b) Exotic	350 gm 400 gm	1.5 Kg 2.0 Kg	2.0 Kg 2.0 Kg

Note:- Calf Starter can be used as creep ration for young lambs.

(D) FEEDING OF GOATS

Composition of concentrate mixtures

- **For Goats:-**

Sr. No.	Ingredients	Parts
1.	Maize	50
2.	Ground Nut Cake	20
3.	Rice Bran/ Wheat Bran	22
4.	Fish Meal	5.0

- **For Chegu Goats:-**

Sr. No.	Ingredients	Parts
1.	Maize	50
2.	Ground Nut Cake	25
3.	Rice Bran/ Wheat Bran	12
4.	Fish Meal	10

5.	Mineral Mixture	2.0	5.	Mineral Mixture	2.0
6.	Common salt	1.0	6.	Common salt	1.0

Note:- Chegu goats require more energy since they remain in cooler climates and hence different ration.

- Feeding schedule for kids according to age:-**

Age	Concentrate (in gm)	Hay/ green fodder (Kg.)
Birth -15 days	-	-
16 days to 1 month	50	0.050/ 0.250
1 month to 2 months	100	0.150/ 0.500
2 months to 3 months	150	0.350/ 1.000
3 months to 4 months	150	0.600/ 2.500
4 months to 5 months	100	0.750/ 3.000
5 months to 6 months	100	1.000/ 4.000

Note:- Till weaning the kids will suckle their mother's milk.

- Above 6 months:-**

- (1) Concentrate mix. 500 gm (if legume green is not available) per day
- (2) Green fodder – ad lib

- Dry Does:-**

(a) Exotic	Concentrate Mix.	400 gm/ per day
(b) Cross bred	Concentrate Mix.	350 gm/ per day
(c) Indigenous	Concentrate Mix.	300 gm/ per day

- In pregnancy 2 months before parturition 250 gm feed more than maintenance ration be given.
- For lactating does 330 gm more concentrate is required for every 1 liter milk production.

- Bucks :-**

(During non breeding season):-

(a) Exotic	Concentrate Mix.	400 gm/ per day
(b) Cross bred	Concentrate Mix.	350 gm/ per day

(c) Indigenous - Concentrate Mix. 300 gm/ per day

(During breeding season):-

(a) Exotic Concentrate Mix. 500 gm/ per day
 (b) Cross bred Concentrate Mix. 400 gm/ per day
 (c) Indigenous Concentrate Mix. 400 gm/ per day

Note:- Green fodder to be given ad lib to the adult goat.

(E) FEEDING OF COWS AND BUFFALOES

Feeding of calves upto 3 months of age

Age of calf	Approx. body weight (kg)	Quantity of Colostrum(Kg)	Quantity of milk (kg)	Quantity of milk replacer (g)	Quantity of dry grass (g)	Green grass (kg)
0 day to 6 th Day	18-22	1/10 th of body weight	-	-	-	-
7-14 days	22-24	1/10 th of body weight	2.5	10		Small qty.
15-21 days	24-26	1/10 th of body weight	3.0	15		Small qty.
22-28 days	26-28	1/15 th of body weight	2.5	20	200	Small qty.
29-35 days	28-30	1/15 th of body weight	2.5	25	300	Small qty.
36-42 days	30-32	1/20 th of body weight	2.0	50	400	Ad lib
43-49 days	32-34		-	75	500	Adlib
50--56 days	34-36		-	100	600	Adlib
57-63 days	36-40		-	125	700	Adlib
64-70 days	40-45			150	800	Adlib
71-77 days	45-50			175	900	Adlib
78-84 days	50-55			200	1000	Adlib
85-91 days	55-60			200	1200	Adlib

Milk Replacer for calves (Approx. 24-26% CP, above 70% TDN)

Formula

S. No	Ingredients Milk Replacer	Parts(Kg)	S. No	Ingredients Milk Replacer	Parts(Kg)
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1.	Maize	21.5	3	Maize	45.5
	Barley	30		Mustard cake/Linseed cake	10
	GNC cake	15		GNC deoiled cake	39
	Soya flakes	28		Soya flakes	-----
	Mineral Mixture	2		Mineral Mixture	2
	Citric acid	1 kg		Citric acid	1
	AB2D3K	25 gram		AB2D3K	25 gram
	B complex	25 gram		B complex	25 gram
	Butyric acid	100 gram		Butyric acid	100 gram
	Coconut oil/linseed oil	2.5 kg		Coconut oil/linseed oil	2.5
Aureomycin	50 gram	Aureomycin	50 gram		
Trace mineral	100 gram	Trace mineral	100 gram		
2.	Barley	25	4.	Wheat	24.5
	GNC deoiled cake	10		GNC cake	-----
	Soya flakes	30		Soya flakes	35
	Mineral Mixture	2		Mineral Mixture	2
	Citric acid	1		Citric acid	1
	AB2D3K	25 gram		AB2D3K	25 gram
	B complex	25 gram		B complex	25 gram
	Butyric acid	100 gram		Butyric acid	100 gram
	Coconut oil/linseed oil	2.5 kg		Coconut oil/linseed oil	2.5 kg
	Aureomycin	50 gram		Aureomycin	50 gram
Trace mineral	100 gram	Trace mineral	100 gram		
Rice polish	10	Linseed cake	10		
wheat	19.5	Barley	25		

Milk Replacer to be given mixed with milk i.e in gruel form and thereafter mixed in boiled, cooled water and fed in gruel form in divided doses

Calves to be weaned and shifted to calf pens and housed separately and fed separately

Feeding of calves 3 months- 6 months of age

Age of calf	Approx. body weight (kg)	Quantity of calf starter (g)	Dry Grass (Kg)	Green grass (kg)
4 th month	60-70	400	1300	Adlib
5 th Month	70-80	600	1400	Ad lib
6 th Month	80-90	800	1500	Ad lib

Feeding of calves 7 months- 12 months of age

Age of calf	Approx. body weight (kg)	Quantity of calf starter (g)	Dry Grass (Kg)	Green grass (kg)
7 th month	90-100	1000	1800	Adlib
8 th Month	100-110	1100	1900	Ad lib
9 th Month	110-120	1200	2000	Ad lib
10 th month	120-130	1300	2100	Adlib
11 th month	130-140	1400	2200	Ad lib
12 th month	140-150	1500	2300	Ad lib

Calf starter (Approx. 22-24% CP, above 70% TDN)

Formula

S. No	Ingredients Calf Starter	Parts(Kg)	S. No	Ingredients Calf Starter	Parts(Kg)
1.	Barley	36	3	Maize	39.5
	Wheat bran	8		Barley	-----
	GNC Oiled	28		DORB	21
	Mustard	10		GNC deoiled	5
	wheat	13.5		Soyaflakes	25
	By Pass fat / oil	500 gram		Rice polish	6
	By Pass protein/quality protein	1	By Pass fat/oil	500 gram	
	DCP	1	DCP	1	
	Mineral Mixture	2	Mineral Mixture	2	

	AB2D3K	20 gram		AB2D3K	20 gram
	B complex	20 gram		B complex	20 gram
2.	Barley	25.5	4.	Maize	23.5
	mustard	15		Channa churi	7
	GNC Oiled	23		DORB	25
	Wheat bran	13		Soyaflakes	21
	Rice polish	10		Ground nut Cake Deoiled	5
	Wheat	10		Rice Polish	15
	By Pass fat	500 g		-----	-----
	DCP	1		By Pass fat/oil	500 g
	Mineral Mixture	2		DCP	1
	AB2D3K	20 gram		Mineral Mixture	2
	B complex	20 gram		AB2D3K	20 gram
				B complex	20 gram

Feeding of male calves 13 months of age till puberty

Age of calf	Approx. body weight (kg)	Quantity of grower feed (g)	Dry Grass (Kg)	Green grass (kg)
13 th month-15 th month	150-175	2000	2	Adlib
16 th month-18 th month	175-200	2250	2.5	Ad lib
18 th Month-attainment of puberty	200 Plus	2500	3	Ad lib

Feeding of female calves 13 months of age till puberty

Age of calf	Approx. body weight (kg)	Quantity of grower feed (g)	Dry Grass (Kg)	Green grass (kg)
13 th month-15 th month	150-175	1600	2	Adlib
16 th month-18 th month	175-200	1800	2.5	Ad lib
18 th Month-attainment of puberty	200 plus	2000	3	Ad lib

Grower feed for calves (Approx. 20-22% CP , above 70% TDN)

Formula

S. No	Ingredients Milk Replacer(winter)	Parts(Kg)	S. No	Ingredients Milk Replacer(summer)	Parts(Kg)
1.	Maize	15.5	3	Barley	26.5
	Barley	15		Wheat bran	25
	DORB	28		Mustard	7
	GNC Oiled	18		GNC	24
	Soya	8		Oil/By pass fat	0.500
	Rice polish	8		Molasses	4
	Oil/by pass fat	0.500		Salt	1
	Molasses	4		Mineral Mixture	2
	Salt	1		AB2D3K	10 gram
	Mineral Mixture	2		B complex	10 gram
	AB2D3K	10 gram		Rice polish	10
B complex	10 gram				
2.	Barley	15	4.	Wheat	19.500
	Wheat	16.5		Barley	15
	Soya	17		Wheat bran	15
	Rice polish	8		GNC Oiled	16
	Molasses	4		Mustard	15
	Salt	1		Rice polish	12
	Mineral Mixture	2		Oil/by pass fat	0.500
	AB2D3K	10 gram		Molasses	4
	B complex	10 gram		Salt	1
	Wheat bran	21		Mineral Mixture	2
	Mustard cake	15		AB2D3K	10 gram
Oil/by pass fat	0.500	B complex	10 gram		

Feeding schedules for dairy animals (Quantity in kg.)

S. No.	Type of animal	Feeding during	Green Fodder/ Silage	Dry Fodder	Concentrate Maintenance	Lactation (3Kg/litre of milk)	By pas protein	By pass fat
(A) CROSS BREED COW								
1.	6 to 7 liters	Lactation days	20 to 25	5 to 6	2	2	-	-

	milk per day	Dry days	15 to 20	6 to 7	2	-	-	-
2.	8 to 10 liters milk per day	Lactation days	25 to 30	4 to 5	2	3	-	-
		Dry days	20 to 25	6 to 7	2	-	-	-
3	10-15 litres of milk per day	Lactation days	25 to 30	4 to 5	2	5	To be added in formula	100
		Dry days	20 to 25	6 to 7	2	-		
4	15 litres of milk and above	Lactation days	25 to 30	4 to 5	2	6	To be added in formula	150
		Dry days	20 to 25	6 to 7	2			

By pass fat to be given extra upto 90 days after calving and 10 days before calving

Feeding lactating cows

Formulas. No	Ingredients	Parts(Kg)	S. No	Ingredients	Parts(Kg)
1.	Maize	20	4	Wheat	10
	DORB	25		Barley	10
	GNC Oiled	10		Mustard	18
	Cotton seed	19		Wheat bran	30
	Molasses	5		Molasses	5
	Rice polish	15		Soya flakes	12
	Salt	1		Mineral Mixture	2
	Mineral mixture	2		Salt	1
	AB2D3K	10 gram		Rice polish	12
	B complex	10 gram		AB2D3K	10 gram
	Yeast	50 gram		B complex	10 gram
	Lime	3		Yeast	50 gram
2.	Maize	18	5.	Barley	20
	DORB	37		Wheat Bran	30
	GNC Oiled	17		Mustard	15
	Cotton seed	15		Cotton seed	24
	Molasses	7		Molasses	5
	Salt	1		Salt	1
	Mineral mixture	2		Mineral mixture	2

	AB2D3K	10 gram		AB2D3K	10 gram
	B complex	10 gram		B complex	10 gram
	Yeast	50 gram		Yeast	50 gram
	Lime	3		Lime	3
3	Maize	20	6	Wheat	14
	Rice Polish	3		Wheat bran	27
	DORB	37		GNC Oiled	13
	GNC Oiled	16		Cotton seed	19
	Mustard	11		Molasses	5
	Molasses	7		Salt	1
	Salt	1		Mineral mixture	2
	Mineral mixture	2		AB2D3K	10 gram
	AB2D3K	10 gram		B complex	10 gram
	B complex	10 gram		Yeast	50 gram
	Yeast	50 gram		Rice polish	16
	Lime powder	3		lime	3

Feeding dry cows or non productive cows

Formula

S. No	Ingredients	Parts(Kg)	S. No	Ingredients	Parts(Kg)
1.	Maize	13	4	Wheat	9
	DORB	42		Barley	10
	GNC deoiled	10		Mustard	13
	Cotton seed	10		Wheat bran	34
	Molasses	6		Molasses	7
	Rice polish	15		GNC	8
	Salt	1		Mineral Mixture	2
	Mineral mixture	2		Salt	1
	AB2D3K	10 gram		AB2D3K	10 gram

	B complex	10 gram		B complex	10 gram
	Yeast	100 gram		Rice polish	15
	lime	1		Lime	1
2.	Maize	14	5.	Barley	20
	DORB	45		Wheat Bran	39
	GNC Oiled	7.		Mustard	16
	Cotton seed	8		Cotton seed	15
	Molasses	7		Molasses	6
	Salt	1		Salt	1
	Mineral mixture	2		Mineral mixture	2
	AB2D3K	10 gram		AB2D3K	10 gram
	B complex	10 gram		B complex	10 gram
	Rice polish	16		Yeast	50 gram
				Lime	1
3	Maize	12	6	Barley	5
	Rice polish	18		Wheat	15
	DORB	43		Wheat bran	25
	GNC Oiled	7		GNC Oiled	10
	Cotton seed	10		Mustard	15
	Molasses	7		Molasses	7
	Salt	1		Salt	1
	Mineral mixture	2		Mineral mixture	2
	AB2D3K	10 gram		AB2D3K	10 gram
	B complex	10 gram		B complex	10 gram
	Yeast	100 gram		Yeast	100 gram
				Rice polish	20

Feeding schedule for different classes of adult cows (approximate body weight-250-300 kg)

When green grass is plenty			When wheat straw is the major roughage		
Category	Concentrate mixture (Kg)	Green Grass (kg)	Concentrate Mixture (kg)	Green Grass (kg)	wheat Straw (kg)
Dry cows	-	25 – 30	1.25	5.0	5 – 6
Milking	1 kg for every 2.5 - 3.0 kg of milk	30	1.25 + 1 kg for every 2.5 - 3.0 kg of milk	5.0	5 – 6
Pregnant	Production Allowance + 1 to 1.5 kg from 6th month of pregnancy	25 - 30	Maintenance + production + 1 to 1.5 kg from 6th month of pregnancy	5.0	5 – 6

Calving boxes

Calving boxes to be provided for cows nearing parturition. The cows to be transferred into these pens 2-3 weeks before the expected date of calving. Each calving pen should be about 3x4m for covered area and another 4x5m for open paddocks. A manger and water trough of proper size should be constructed in each pen. The covered area shall have 1.25m high walls all round. A 1.2 m wide gate opening into the open lot is also provided. The floor should be of cement or brick on edge with slope towards drain. The number of calving boxes required is about 5% of no. of breedable stock in the farm. These pens are located nearer to quarters of the farmer / milking barn to monitor pregnant cows. Adequate lighting should be made.

Feeding pregnant animals

S. No	Ingredients Lactating cows	Parts(Kg)	S. No	Ingredients	Parts(Kg)
1.	Maize	23	4	Wheat	11
	DORB	25		Barley	15
	GNC Oiled	10		Mustard	16
	Cotton seed	18		Wheat bran	28
	Molasses	6		Molasses	7
	Rice polish	15		GNC	10
	Salt	1		Mineral Mixture	2
	Mineral mixture	2		Salt	1
	AB2D3K	10 gram		Rice polish	10
	B complex	10 gram		AB2D3K	10 gram
	Yeast	10 gram		B complex	10 gram
	By pass fat	100 gram		By Pass fat	100 gram

2.	Maize	25	5.	Barley	27
	DORB	30		Wheat Bran	25
	GNC Oiled	15		Mustard	20
	Cotton seed	20		Cotton seed	19
	Molasses	7		Molasses	6
	Salt	1		Salt	1
	Mineral mixture	2		Mineral mixture	2
	AB2D3K	10 gram		AB2D3K	10 gram
	B complex	10 gram		B complex	10 gram
	By Pass fat	100 gram		By Pass fat	100 gram
3	Maize	21	6	Maize	15
	DORB	35		Wheat	15
	GNC Oiled	14		Wheat bran	25
	Cotton seed	20		GNC Oiled	15
	Molasses	7		Cotton seed	20
	Salt	1		Molasses	7
	Mineral mixture	2		Salt	1
	Ab2D3K	10 gram		Mineral mixture	2
	B complex	10 gram		Ab2D3K	10 gram
	Yeast	100 gram		B complex	10 gram
		yeast	100 gram		

Breeding Bull Feeding schedule

Table. Feeding schedule of bull when dry grass is only available

Body weight (kg)	Concentrate (kg)	Straw (Kg)	By pass fat
250-350	3	5.0-5.5	50 gram
300-350	3.5	5.8-6.0	75 gram
350-400	4	6.4-6.8	100 gram
400-450	4	6.8-7.0	125 gram
450-500	4.25	6.7-7.0	150 gram
550-600	4.25	6.5-7.0	175 gram

Table. Feeding schedule of bull when dry grass and green fodder is available

Body weight (kg)	Concentrate (Kg)	Straw (Kg)	Green grass (kg)	By pass fat
250-350	2.5	3.3	6.7-7.0	50 gram
300-350	2.9	3.8	7.7-8.0	75 gram
350-400	3.2	4.3	8.6-9.0	100 gram
400-450	3.4	4.5	9.1-9.5	125 gram
450-500	3.4	4.5	9.0-9.5	150 gram
550-600	3.3	4.4	8.8-9.0	175 gram

by pass fat to be given extra during service period

Feed formula of breed of bulls

S. No	Ingredients Summers	Parts(Kg)	S. No	Ingredients Winters	Parts(Kg)
1.	Maize	10	1	Maize	15
	DORB	15		DORB	40
	Molasses	7		Molasses	7
	Wheat	15		Soya flakes	5
	Salt	1		Salt	1
	Mineral Mixture	2		Mineral Mixture	2
	GNC oiled	21		GNC oiled	20
	Wheat bran	19		Rice polish	10
	Mustard	10		-	
	B complex	10 gram		B complex	10 gram
	AB2D3EK	10 gram		AB2D3EK	10 gram
	Yeast	100 gram		Yeast	100 gram
2.	Maize	15	2.	Maize	25
	DORB	15		DORB	45
	Molasses	5		Molasses	7
	Wheat	10		Soya flakes	20
	Salt	1		Salt	1
	Mineral Mixture	2		Mineral Mixture	2
	GNC oiled	18		----	-
	Wheat bran	22		----	-
	Mustard	12		-	
	B complex	10 gram		B complex	10 gram
	Ab2D3EK	10 gram		Ab2D3EK	10 gram

	Yeast	100 gram		Yeast	100 gram
3.	Maize	20	3.	Maize	25
	DORB	10		DORB	40
	Molasses	5		Salt	1
	Wheat	10		Mineral Mixture	2
	Salt	1		GNC oiled	25
	Mineral Mixture	2		Rice polish	7
	GNC oiled	18		B complex	10 gram
	Wheat bran	19		AB2D3EK	10 gram
	Mustard	15		Yeast	100 gram
	B complex	10 gram			
	AB2D3EK	10 gram			
	Yeast	100 gram			

Mineral Mixture to be added in the Feed Should be of either composition:

For Dairy cattle, for milk replacer and calf Starter Type II should be added and for rest of stock Type I should be incorporated

S. No	Characteristics	Type I (with salt)	Type II (without salt)
1.	Moisture, percent by mass, Max.	5	5
2.	Calcium, percent by mass, Min.	18	23
3.	Phosphorus, percent by mass, Min.	9	12
4.	Magnesium, percent by mass, Min.	5	6.5
5.	Salt (Chloride as Sodium Chloride), percent by mass, Min.	22	-
6.	Iron, percent by mass, Min.	0.4	0.5
7.	Iodine (as KI), percent by mass.	0.02	0.026
8.	Copper, percent by mass, Min.	0.06	0.077
9.	Manganese, percent by mass, Min.	0.10	0.12
10.	Cobalt, percent by mass, Min.	0.009	0.012
11.	Fluorine, percent by mass, Max.	0.05	0.07
12.	Zinc, per cent by mass, Min.	0.30	0.38
13.	Sulphur, percent by mass, Max.	0.40	0.50
14.	Acid insoluble ash, percent by mass	3.00	2.50

Ration to be given as TMR ration i.e to mix dry grass green grass and concentrate in TMR drum and fed to animals two to three a day

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Feeding schedule for buffalo calves from birth upto 3 months of age

Age (in days)	Whole Milk (in Kg)	Milk Replacer (in Kg)	Calf Starter (in grams)	Green (in grams)
0-14	4	0	0	0
15-21	3.5	0	50	300
22-28	3	0	300	550
29-35	1.5	1	400	550
36-42	0	2.5	600	600
43-49	0	2	700	700
50-56	0	1.5	800	800
57-63	0	1	1000	1000
64-70	0	0	1200	1100
70-77	0	0	1300	1200
78-84	0	0	1400	1400
85-90	0	0	1700	1900

(For first 3-4 days feed colostrum)

Feeding schedule for growing buffalo bulls

Weight(Kg)	concentrate (Kg)	Hay (Kg)	Green (Kg)	by pass fat (grams)
100	1.2	adlib	4	0
150	1.5	adlib	5	0
200-250	2	3	6.25-7.0	50
250-300	2	4	7.75-8.5	75
300-400	2.5	4.5	8.75-9.5	100
400-500	3	5	11.0-11.5	100
500-550	3	5.5	13.0-13.5	150
550-600	3	5	12.0-12.5	175

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When Green is not available

Body Weight (Kg)	Concentrate (Kg)	Hay (Kg)	By pass fat (grams)
200-250	2.5	4.5-5.0	50
250-300	2.5	6.5-7.0	75
300-400	3	7.0-7.5	100
400-500	3.5	8.0-8.75	100
500-550	3.5	9.5-10.0	150
550-600	3	9.5-10.0	175

Feeding schedule of adult breeding buffalo bulls

Body weight (Kg)	Concentrate (Kg)	Hay (Kg)	Green (Kg)	By pass fat (Grams)
400	1.5	4	8	100
500	2	4	8.5	100
600	2	5	9.5	150
700	2.5	5.5	10.5	175
800	3	5.5	12.5	175
900	3.5	5.5	14.5	175

When Green is not available

Body Weight (Kg)	Concentrate (Kg)	Hay (Kg)	By pass fat (grams)
400	1.8	7	100
500	2.2	7.5	100
600	2.5	8.5	150
700	2.8	9.5	175
800	3.5	10	175
900	3.5	11.5	175

Note:- when an additional semen collection is performed during week then an additional 1 Kg concentrate mixture is to be provided to bull

(F) FEEDING OF PIGS

For growers pigs (20-50 Kg.):-

• For Finishers (50-90 Kg.):-

Sr. No.	Ingredients	Parts
1.	Maize	50
2.	Ground Nut Cake	20
3.	Rice Bran	20
4.	Fish Meal	7.5
5.	Mineral Mixture	2.5

Sr. No.	Ingredients	Parts
1.	Maize	40
2.	Ground Nut Cake	22
3.	Rice Bran	30
4.	Fish Meal	5.5
5.	Mineral Mixture	2.5

Add antibiotic premix @ 2.5 Kg./ ton feed

• For Boars, Pregnant & lactating sows:-

Sr. No.	Ingredients	Parts
1.	Maize	50
2.	Ground Nut Cake	20
3.	Rice Bran	18
4.	Fish Meal	5
5.	Mineral Mixture	2.5
6.	Salt	0.5
7.	Molasses	4

Add antibiotic premix @ 2.5 Kg./ ton feed

• Scale of Feeding:-

Sr. No.	Class	Body Weight	Average Feed/day
1.	Growers	1-5 Kg	250 g
		5-10Kg	460 g
		10-20 Kg	950 g
		20-50 Kg	1900 g
2.	Finishers	50-110 Kg	3110 g
3.	Pregnant Sows	120 Kg	1.40 Kg. +500g
		140 Kg	1.50 Kg. +500g
		160 Kg	1.60 Kg. +500g
4.	Suckling/ Lactating Sows	145 Kg	1.40 Kg. +600g/Litre milk yield
		165 Kg	1.50 Kg. +600g/Litre milk yield
		185 Kg	1.60 Kg. +600g/Litre milk yield

5.	Boars	105-175 Kg	2.450 Kg
		175-245 Kg	2.00 Kg

Note:- 1) During last three weeks of gestation give 5000 grams extra feed to pregnant sows.

2) Green fodder to all categories be fed ad lib.

(G) FEEDING OF RABBITS

• **Composition of concentrate ration:-**

Sr. No.	Ingredients	For kids (0-6months)	For Adult does and Bucks	For Pregnant and lactating Does
1.	Maize	25	25	20
2.	Oats	8	8	---
3.	Wheat Bran	10	12	20
4.	Rice Bran	13	16	28
5.	G.N.C.	20	17	10
6.	Sunflower Cake	7.5	8	10
7.	Soya flakes	7.5	5	3
8.	Fish Meal	2	2	2
9.	Molasses	5	5	5
10.	Mineral Mixture	1.5	1.5	1.5
11.	Salt	0.5	0.5	0.5

Note:- From birth to 6 weeks of age, kids are reared on dams milk and after 15 days of age concentrate feeding is started.

• **Scale of feeding:-**

Age	Quantity of concentrates	Green fodders
3 rd week	5g/day	--
4 th week	10g/day	--
5 th week	20g/day	--
6 th week	30-40g/day	--
6 th week to 2 months	50-60g/day	Ad lib
2 nd month to 4 months	60-80g/day	Ad lib
4 months to 6months	80-100g/day	Ad lib
>6 month	120g/day	Ad lib
Pregnant & lactating Does	150-180g/day	Ad lib

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