Vaccination schedule for dairy cattle

S.No.	Age	Vaccine
1.	• Fourth month • 2 - 4 weeks later • Three times a year (In high diseased areas) or Twice a year	Foot and mouth disease (FMD) vaccine 1st dose FMD - Second dose FMD - Booster
2.	Six months	Anthrax vaccine Black quarter (BQ) vaccine
3.	After six months	Haemorrhagic septicaemia (H.S) vaccine
4.	Yearly once	BQ, H.S and Anthrax

Nutrients Required For Dairy Animal

Maintenance ration

Body weight (kg)	Dry matter (kg)	Digestible crude protein (kg)	Total digestible nutrients (kg)	starch equivalent (kg)	Calcium (m.cal) (kg)	Phosphorus (gms)
200	3.5	0.148	-1.66	1.24	5	5
250	4.5	0.168	2.02	1.56	6	6
300	5.6	0.197	2.36	1.77	7	7
350	6.7	0.227	2.7	2.02	8	8
400	7.8	0.254	3.03	2.26	9	9
450	8.9	0.282	3.37	2.51	10	10
500	9.1	0.296	3.69	2.92	11	11
550	10.1	0.336	3.71	3.18	12	12
600	11.1	0.35	3.8	3.2	13	13

Requirement for maintenance and pregnancy

Body weight (kg)	Dry matter (kg)	Digestible crude protein (kg)	Total digestible nutrients (kg)	starch equivalent (kg)	Calcium (m.cal) (kg)	Phosphorus (gms)
350	6.4	0.32	3.6	10.1	21	16
400	7.2	0.36	4	11.2	23	18
450	7.9	0.40	4.4	12.3	26	20
500	8.6	0.43	4.8	13.4	29	22
550	9.3	0.47	5.2	14.4	31	24
600	10	0.50	5.6	15.5	34	26
650	10.6	0.53	6	16.2	35	28
700	11.3	0.55	6.3	17.3	39	30
750	12	0.59	6.7	18	42	32
800	12.6	0.63	7.1	19	44	34

Source: ICAR Bulletin 25

Some important health information

Animal Pulse, Respiration and Temperature

Live Stock	Pulse/Min	Respiration/Min	Temperature	
			^0F	^0C
Cow	50 to 60	12 to 16	101 to 102	38.3 to 38.9
Buffalo	40 to 60	15 to 18	98.3 to 103	36.4 to 39.4
Horse	38 to 43	8 to 12	100 to 102	37.8 to 38.3
Sheep	75 to 80	20 to 30	103 to 104	39.4 to 40.0
Pig	70 to 80	20 to 30	102 to 103	38.9 to 39.4
Dog	80 to 90	15 to 25	101 to 102	38.3 to 38.9
Cat	150 to 200	20 to 40	101 to 102	38 3 to 38.9

Oestrus Cycle Age of Puberty Etc.

	Cow	Buffalo	Ewe	Doe
Age of Puberty	24 to 36 months	24 to 36 months	8 to 12 months	8 to 12 months
Length of Oestrus Cycle	18 to 24 days	21 days (Variable)	15 to 19 days	18 to 21days
Duration of Heat	4 to 20 hrs	36 hrs	36 hrs	24 to 36 hrs
Time of Ovulation	14 hrs after Oestrus	12 hrs after Oestrus	24 to 48 hrs	after onset of Oestrus
Return of heat afetr parturition	30 to 60 days	30 to 60 days	3 weeks	3 weeks
Age of Weaning	8 to 16 weeks	12 to 16 weeks	8 to 16 weeks	6 to 19 weeks

Gestation Period

Animal	Cow	Bitch	Queen	Doe	Ewe	Mare	Sow
Days	279 - 292	58 - 70	58 - 65	145 - 155	144 - 151	330 - 342	115

Animal Body Weight, Age and Longivity

Common Name	Mature Body Weigth - Kg	Mature Age - Years	Longivity Years	Maximum Recorded	Birth Weight (Kg)
Dairy Cattle	464 - 653	5 years	20 - 25 years	30	25 - 45
Horse	450	3 - 5 years	20 -25 years	50	45 - 55
Goat	26 - 102	2 years	10 - 15 years	18	2.5 - 3.5
Swine	70 - 128	1 year	16 - 18 years	27	2.0 - 4.0
Sheep	34 - 80	2 years	10 - 18 years	20	2.0 - 4.0
Rabbit	3 to 5	1 year	5 - 8 years	>13	0.04 - 0.08
Chicken	1.5 to 3.3	20 - 30 weeks	2 - 5 years	30	0.049 - 0.065