

**TABLE 3.1: Livestock Information: Type, Nutrient Amount. Nutrient Unit and Housing Capacity**

Type	Sub Type	Sub-Sub Type	Average Weight (kg)	Utilization (%)	Liquid Amount (m <sup>3</sup> 1000 kg/day)	Liquid DM* (%)	Solid Amount (m <sup>3</sup> 1000 kg/day)	Solid DM* (%)	Nutrient Units (animal /NU)	Livestock Housing Capacity (m <sup>2</sup> animal)
Beef	Backgrounders (7 - 12.5 months)	Confinement	308	90	0.0724	9.0	0.0604	22	3	4.65
Beef	Backgrounders (7 - 12.5 months)	Yard/Barn	308	90			0.0604	22	3	3.72
Beef	Brood Cows (includes calves to weaning)	Confinement	590	100	0.0724	9.0	0.0604	30	1	9.29
Beef	Brood Cows (includes calves to weaning)	Deep Bedded	590	100			0.0812	45	1	9.29
Beef	Brood Cows (includes calves to weaning)	Yard/Barn	590	100			0.0604	30	1	4.65
Beef	Feeders (7 -16 months)	Confinement Bedded Pack	362	75			0.0687.	30	3	4.65
Beef	Feeders (7 -16 months)	Confinement Pack Scrape	362	75	0.0724	9.0	0.0604	22	3	4.65
Beef	Feeders (7 -16 months)	Confinement Total Slats	362	75	0.0724	9.0			3	1.86
Beef	Feeders (7 -16 months)	Yard/Barn	362	75			0.0604	22	3	4.18
Beef	Short Keep (12.5 - 17.5 months)	Confinement	469	83	0.0724	9.0	0.0604	22	2	6.04
Chickens	Broiler Breeder Growers (females + males transferred out)	Floor System	0.708	83			0.1124	60	300	0.158
Chickens	Broiler Breeder Layer (females + males transferred in)	Cages	3.04	90			0.0749	60	100	0.121
Chickens	Broiler Breeder Layer (females + males transferred in)	Litter With Slats	2.63	90			0.0562	65	100	0.195
Chickens	Broilers	8 Week Cycle	0.635	70			0.1249	60	351	0.071
Chickens	Broilers	9 Week Cycle	0.726	70			0.1249	60	300	0.083

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Chickens	Broilers	10 Week Cycle	0.862	70			0.1249	60	250	0.099
Chickens	Broilers	12 Week Cycle	1.09	70			0.1249	60	199	0.124
Chickens	Layer Pullets (day olds)	Cages	0.408	83	0.1124	13.9	0.0624	25	500	0.028
Chickens	Layer Pullets (day olds)	Litter	0.408	83			0.1249	58	500	0.186
Chickens	Laying Hens	Belt And Other Removal System (daily)	1.43	96	0.1124	11.1	0.0624	20	150	
Chickens	Laying Hens	Belt With Air Drying (daily)	1.43	96			0.0624	30	150	
Chickens	Laying Hens	High Rise - Stored In Barn	1.43	96			0.0624	20	150	
Chickens	Laying Hens	Liquid - Stored In Barn	1.43	96	0.1124	11.1			150	
Chinchilla	Breeding Females (inc males/rep/market animals)		0.567	100			0.1561	66	320	0.743
Dairy	Calves Large Frame		90.7	100	0.0750	11.0	0.0955	45	6	3.25
Dairy	Calves Medium Frame (Guernsey Size)		74.4	100	0.0750	11.0	0.0955	45	7	2.97
Dairy	Calves Small Frame (Jersey Size)		60.8	100	0.0750	11.0	0.0955	45	8.5	2.60
Dairy	Heifers Large Frame	Deep Bedded	295	100			0.0516	40	2	6.50
Dairy	Heifers Large Frame	Free Stall	295	100	0.0714	11.0	0.0599	19	2	6.97
Dairy	Heifers Large Frame	Manure Pack Outside Access	295	100			0.0516	40	2	3.72
Dairy	Heifers Large Frame	Pack Scrape 1 Side	295	100	0.0714	11.0	0.0516	40	2	9.29
Dairy	Heifers Large Frame	Pack Scrape 2 Sides	295	100	0.0714	11.0	0.0516	40	2	8.36
Dairy	Heifers Medium Frame (Guernsey Size)	Deep Bedded	249	100			0.0516	40	2.4	5.20

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Dairy	Heifers Medium Frame (Guernsey Size)	Free Stall	249	100	0.0714	11.0	0.0599	19	2.4	5.57
Dairy	Heifers Medium Frame (Guernsey Size)	Pack Scrape	249	100	0.0714	11.0	0.0516	40	2.4	7.43
Dairy	Heifers Small Frame (Jersey Size)	Deep Bedded	204	100			0.0516	40	2.9	4.65
Dairy	Heifers Small Frame (Jersey Size)	Free Stall	204	100	0.0714	11.0	0.0599	19	2.9	4.92
Dairy	Heifers Small Frame (Jersey Size)	Pack Scrape	204	100	0.0714	11.0	0.0516	40	2.9	6.50
Dairy	Milking Age Cows Large Frame	4 Row Free Stall Head To Head	635	100	0.1165	9.1	0.0952	21	0.7	11.6
Dairy	Milking Age Cows Large Frame	4 Row Free Stall Tail To Tail	635	100	0.1165	9.1	0.0952	21	0.7	10.2
Dairy	Milking Age Cows Large Frame	6 Row Free Stall	635	100	0.1165	9.1	0.0952	21	0.7	9.29
Dairy	Milking Age Cows Large Frame	Bedded Pack	635	100			0.1020	45	0.7	16.7
Dairy	Milking Age Cows Large Frame	Pack Scrape	635	100	0.1165	9.1	0.1020	45	0.7	16.7
Dairy	Milking Age Cows Large Frame	3 Row Free Stall	635	100	0.1165	9.1	0.0952	21	0.7	9.76
Dairy	Milking Age Cows Large Frame	Sand	635	100	0.1264	9.1	0.1051	21	0.7	
Dairy	Milking Age Cows Large Frame	Tie Stall	635	100	0.1165	9.1	0.0952	21	0.7	10.2
Dairy	Milking Age Cows Medium Frame (Guernsey Size)	Bedded Pack	499	100			0.1020	45	0.85	15.3

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Dairy	Milking Age Cows Medium Frame (Guernsey Size)	Free Stall	499	100	0.1165	9.0	0.0952	21	0.85	9.29
Dairy	Milking Age Cows Medium Frame (Guernsey Size)	Pack Scrape	499	100	0.1165	9.1	0.1020	45	0.85	15.3
Dairy	Milking Age Cows Medium Frame (Guernsey Size)	Sand	499	100	0.1264	9.1	0.1051	21	0.85	
Dairy	Milking Age Cows Medium Frame (Guernsey Size)	Tie Stall	499	100	0.1165	9.0	0.0952	21	0.85	8.36
Dairy	Milking Age Cows Small Frame (Jersey Size)	Bedded Pack	431	100			0.1020	45	1	13.5
Dairy	Milking Age Cows Small Frame (Jersey Size)	Free Stall	431	100	0.1165	9.0	0.0952	21	1	8.36
Dairy	Milking Age Cows Small Frame (Jersey Size)	Tie Stall	431	100	0.1165	9.1	0.0952	21	1	7.43
Dairy	Milking Age Cows Small Frame (Jersey Size)	Pack Scrape	431	100	0.1165	9.1	0.1020	45	0.85	13.5
Dairy	Milking Age Cows Small Frame (Jersey Size)	Sand	431	100	0.1264	9.1	0.1051	21	1	
Deer/Elk	Elk Adults (>24 months) (includes unweaned offspring)		272	100			0.0456	30	2	
Deer/Elk	Elk Feeders		127	75			0.0456	30	6	
Deer/Elk	Elk/Red Deer Hybrid Adults (includes unweaned offspring)		170	100			0.0456	30	4	
Deer/Elk	Elk/Red Deer Hybrid Feeders		97.5	75			0.0456	30	10	

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Deer/Elk	Fallow Deer Adults (>24 months)(includes unweaned offspring)		45.4	100			0.0456	30	13	
Deer/Elk	Fallow Deer Feeders		31.8	75			0.0456	30	23	
Deer/Elk	Red Deer Adults (>24 months) (includes unweaned offspring)		99.8	100			0.0456	30	7	
Deer/Elk	Red Deer Feeders		63.5	75			0.0456	30	14	
Deer/Elk	White Tailed Deer Adults (>24 months) (includes unweaned offspring)		56.7	100			0.0456	30	11	
Deer/Elk	White Tailed Deer Feeders		40.8	75			0.0456	30	21	
Ducks	Peking	Breeders	2.95	100			0.3765	57	105	0.465
Ducks	Peking	Growers	1.04	90	0.3627	7.0	0.3471	57	105	0.167
Emu	Adults (includes offspring to market size)		56.7	0					12	11.1
Fox	Breeding Females (including rep/market animals/males)		6.80	80			0.0874	36	25	9.29
Goats	Dairy Does (including unweaned offspring)	Confinement	77.1	100			0.0453	30	8	1.86
Goats	Dairy Kids	Confinement	16.3	100			0.0453	30	32	0.743
Goats	Feeder Kids (>20 kg)	Confinement	18.1	0			0.0375	30	32	0.743
Goats	Mature Meat Goat (including unweaned offspring)		72.6	0			0.0375	30	8	1.39
Horses	Large Frame (including unweaned offspring)	Box Stalls	680	100			0.0887	46	0.7	30.2
Horses	Medium Frame	Box Stalls	454	100			0.0887	46	1	23.2

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	(including unweaned offspring)									
Horses	Small Frame (including unweaned offspring)	Box Stalls	227	100			0.0887	46	2	16.3
Mink	Breeding Females (including rep/market animals/males)		1.81	80			0.1249	36	90	2.32
Ostrich	Adults (includes offspring to market size)		136	0					4	9.29
Rabbits	Breeding Does (inc bucks/rep/fryers)	1 Tier Cages	4.54	100			0.1561	45	40	1.80
Rabbits	Breeding Does (inc bucks/rep/fryers)	2 Tier Cages	4.54	100			0.1561	45	40	0.892
Rabbits	Breeding Does (inc bucks/rep/fryers)	3 Tier Cages	4.54	100			0.1561	45	40	0.595
Sheep	Dairy and Feeder Lambs	Confinement	33.2	75			0.0378	30	20	0.929
Sheep	Dairy and Feeder Lambs	Outside Access	33.2	75			0.0378	30	20	0.557
Sheep	Dairy Ewes & Rams (including unweaned offspring and replacements)	Confinement	93.0	100			0.0556	40	6	2.14
Sheep	Dairy Ewes & Rams (including unweaned offspring and replacements)	Outside Access	93.0	100			0.0556	40	6	2.14
Sheep	Meat Ewes & Rams (including unweaned offspring and replacements)	Confinement	79.4	100			0.0556	40	8	2.14

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Sheep	Meat Ewes & Rams (including unweaned offspring and replacements)	Outside Access	79.4	100			0.0453	30	8	1.39
Swine	Feeders	Full Slats	52.2	85	0.1311	5.0			6	0.836
Swine	Feeders	Full Slats (wet/dry feeders)	52.2	85	0.0837	7.0			6	0.836
Swine	Feeders	Deep Bedded	52.2	85			0.0780	45	6	1.30
Swine	Feeders	Partial Slats	52.2	85	0.1311	5.0			6	0.929
Swine	Feeders	Partial Slats (wet/dry feeders)	52.2	85	0.0837	7.0			6	0.929
Swine	Feeders	Solid Scrape	52.2	85	0.1311	5.0	0.0843	13	6	1.11
Swine	Feeders	Solid Scrape (wet/dry feeders)	52.2	85	0.0837	7.0	0.0843	20	6	1.11
Swine	Gilts - Breeders	-	90.3	85	0.0893	2.7			5	1.39
Swine	Sows (dry) and Boars	deep bedded pack	136	100			0.0818	45	3.5	2.79
Swine	Sows (dry) and Boars	non-SEW	136	100	0.1167	2.5	0.0974	15	3.5	2.79
Swine	Sows (dry) and Boars	SEW	136	100	0.1167	2.5	0.0974	15	3.33	2.32
Swine	Sows with Litters	non-SEW	181	100	0.1167	2.1	0.0974	15	3.5	6.50
Swine	Sows with Litters	SEW	181	100	0.1167	2.1	0.0974	15	3.33	5.11
Swine	Weaners	non-SEW	15.9	80	0.1779	2.7	0.1542	13	20	0.399
Swine	Weaners	non-SEW (wet/dry)	15.9	80	0.1305	3.6	0.1542	13	20	0.399
Swine	Weaners	SEW	11.3	80	0.1779	2.7	0.1542	13	20	0.353
Swine	Weaners	SEW (wet/dry)	11.3	80	0.1305	3.6	0.1542	13	20	0.353
Turkeys	Breeder Toms		15.9	100			0.0437	58		0.557
Turkeys	Broilers <6.2kg		2.00	85			0.0562	60	133	0.149

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Turkeys	Hens 6.2 - 10.8 kg	-brooded in another building	4.08	77			0.0541	60	110	0.232
Turkeys	Hens 6.2 - 10.8 kg	-brooded in the same barn	2.87	85			0.0559	60	110	0.232
Turkeys	Toms >10.8 kg		6.03	80			0.0410	60	75	0.325
Turkeys	Turkey Breeder Layers		9.07	100			0.0437	58		0.372
Turkeys	Turkey Pullet (0 to 6 weeks)		0.680	80			0.1249	58	267	0.093
Veal	Grain Fed Veal		134	90	0.0724	9.0	0.0604	22	6	6.97
Veal	Milk Fed Veal		102	80	0.0906	0.7	0.1389	40	6	2.79

Notes: \* DM = dry matter

1. Average weight rounded to 3 significant digits
2. Manure production numbers rounded to 4 decimal places
3. Blank manure production and dry matter entries indicate a non-typical housing process.
4. Livestock housing capacity is rounded to 2 decimal places if above 0.2 m <sup>2</sup> /animal and 3 decimal places if below 0.2 m <sup>2</sup> /animal
5. Blank livestock housing capacity values indicate that information is not available
6. Livestock density is based on barn area only for a housing system(outdoor yard is not included)
7. Livestock housing capacity numbers are used to develop an estimated barn size