

Water Requirement Calculation Table

Livestock	Number	IG/day per animal in winter	IG/day per animal in summer	IG/day (Imperial gallons per day)
Beef/Dairy/Bison*				
Feeder/heifer/steer (600 lb.)	8	5	9	72
Feeder (900 lb.)	8	7	12	96
Feeder (1250 lb.)	9	10	15	135
Cow/calf pair		12	15	—
Dry milking cow **		10	12	—
Lactating cow **	3	25	30	90
Bison		8	10	—
Horses				
Horses		8	11	—
Hogs				
Sow (Farrow/wean)	950	5.5		5225
Dry Sow/Boar		4		—
Feeder		3		—
Nursery (33 lb.)		2		—
Chickens				
Broilers	50,000	0.035		1750
Roasters/Pullets		0.04		—
Layers	11,000	0.055		605
Breeders		0.07		—
Turkeys				
Turkey Growers + Ducks (Broilers)	2,300	0.13		299
Turkey Heavies		0.16		—
Sheep/Goats				
Sheep/Goats		2		—
Ewes/Does		3		—
Lambs/Kids (90 lb.)		1.6		—
		TOTAL (IG/day)		8,272
	***	TOTAL with 10% wash water		9,099
		TOTAL with Domestic Deman		18,998

*For beef, dairy, bison and horse enterprises: Use summer numbers if appropriate for the operation. Otherwise base projections on winter values. Always use the greater of the two values.

** For intensive Dairy operations, please use the Dairy Barn Water Requirement Estimator found on separate sheet.

*** 10% of the total is added to allow for wash water

Other consumption:

Normal household consumption: 60-75 IG/day per person or (272-340 l/day/person)

Unit Conversions		
Total Per day	Total per year	Unit
18,998	6,934,343	IG
86,366	31,523,523	litres
0.086	31.524	Cubic decametres (dam ³)

Domestic Consumption:

150 people x 300 l/d/p
= 45 000 L/d (9 899 IG/d)
= 16 425 000 L/y (3 612 995 IG/y)