Guidelines For Livestock Drinking Water Quality

<u>Parameter</u>	Maximum Acceptable, milligrams per litre (ppm)			
	Livesto	ock Human Dr	inking Water	
Major Ions and Nutrients				
Calcium	1000			
Nitrate plus nitrite	100	11		
Nitrite alone	10.0	1.0		
Sulphate	1000	500		
Total dissolved solids	3000	500		
Heavy Metals & Trace Ions				
Aluminum	5.0			
Arsenic	0.5	0.05		
Beryllium	0.1			
Boron	5.0	5.0		
Cadmium	0.02	0.005		
Chromium	1.0	0.05		
Cobalt	1.0			
Copper		(cattle) 1.0		
	5.0	5.0 (swine & poultry)		
	0.5	(sheep)		
Fluoride	2.0	1.5		
Iron		0.3		
Lead	0.1	0.05		
Manganese		0.05		
Mercury	0.003	0.001		
Molybdenum	0.5			
Nickel	1.0			
Selenium	0.05	0.01		
Uranium	0.2	0.02		
Vanadium	0.1			
Zinc	50.0	5.0		

Note: --- indicates no guideline

Typical Livestock Water Consumption Levels

Dairy (litres/day) Dry Cows Lactating Yearling Heifers	40 100 30	Beef (litres/day) Dry Cow Lactating Cow Yearling Heifers Feedlot Animals	35 55 30 50	
Swine (litres/day) Sows Weaners Growing-finishing	25 2.5 7	Poultry (litres/1000 bits Broilers Layers Turkeys	i <mark>rds/day)</mark> 140 190 700	

<u>Notes</u>

- (1) All intake levels are subject to large variation related to environmental temperature, humidity, water quality and availability, diet composition and animal performance level.
- (2) Animals consuming wet feeds such as by-products, pasture or silages will drink considerably less water than indicated above.

Compiled by Murray Snowdon, NBAFA, 2000.