

Table 3-6: Water Quality Objectives for Agricultural Supply^a (in mg/l)

Parameter	Threshold	Limit	Limit for Livestock Watering
<i>Physical:</i>			
pH	5.5-8.3	4.5-9.0	
TDS			10,000.0
EC (mmhos / cm)		0.2-3.0	
<i>Inorganic Parameters:</i>			
Aluminum	5.0	20.0	5.0
Arsenic	0.1	2.0	0.2
Beryllium	0.1	0.5	
Boron	0.5	2.0	5.0
Chloride	142.0	355.0	
Cadmium	0.01	0.5	0.05
Chromium	0.1	1.0	1.0
Cobalt	0.05	5.0	1.0
Copper	0.2	5.0	0.5
Flouride	1.0	15.0	2.0
Iron	5.0	20.0	
Lead	5.0	10.0	0.1
Lithium		2.5 ^b	
Manganese	0.2	10.0	
Molybdenum	0.01	0.05	0.5
Nickel	0.2	2.0	
NO ₃ + NO ₂ (as N)	5.0	30 ^c	100.0
Selenium		0.02	0.05
Sodium adsorption ratio (adjusted) ^d	3.0	9.0	
Vanadium	0.1	1.0	0.1
Zinc	2.0	10.0	25

NOTES:

- a. For an extensive discussion of water quality for agricultural purposes, see "A Compilation of Water Quality Goals," Central Valley Regional Water Quality Control Board, May 1993.
- b. For citrus irrigation, maximum 0.075 mg/l.
- c. For sensitive crops. Values are actually for $\text{NO}_3\text{-N} + \text{NH}_4\text{-N}$.
- d. Adjusted SAR = $\{ \text{Na} / [(\text{Ca} + \text{Mg}) + 2]^{0.5} \} \{ 1 + [8.4 - \text{pHc}] \}$, where pHc is a calculated value based on total cations, Ca + Mg, and $\text{CO}_3 + \text{HCO}_3$, in me/l. Exact calculations of pHc can be found in "Guidelines for Interpretation of Water Quality for Agriculture" prepared by the Univ. of California Cooperative Extension.