

## WATER QUALITY GUIDELINES FOR OLIVES

Irrigation Problem	Degree of Problem		
	None	Increasing	Severe
<b>Salinity</b> (affects crop water availability) Electrical Conductivity (EC) Total Dissolved Solids (TDS)	< 2.0 < 1280	2.5 - 4.0 1600 - 2560	> 5.5 > 3520
<b>Permeability</b> (affects soil infiltration rate) Electrical Conductivity (EC) if SAR=0-3 if SAR=3-6	> 0.7 > 1.2	0.7 - 0.2 1.2 - 0.3	< 0.2 < 0.3
<b>Specific ion toxicity</b> (directly toxic to plants) Boron (ppm or mg/L)	0 - 1.0	>1.0	
<b>Acidity</b> (affects nutrient uptake) pH			
<b>Irrigation system clogging</b> Total Dissolved Solids (TDS) Calcium (meq/L) Bicarbonate (meq/L) Iron (ppm) Manganese (ppm) pH Hydrogen sulfide (ppm)  bacterial population (No./ml)	< 500   < 0.2 < 0.1 < 7.0 < 0.2  < 10,000	500 - 2000 2 - 3 > 2* 0.2 - 1.5 0.1 - 1.5 7.0 - 8.0 0.2 - 2.0  10,000 - 50,000	> 2000   > 1.5 > 1.5 > 8.0 > 2.0  > 50,000

\* depends on pH