

## **General Water Quality Requirements for Fish Culture**

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<http://wfs.sdstate.edu/wfsci.htm>

Suspended Solids -- <1,500 ppm

Dissolved Solids -- <30 ppt

Temperature – for yellow perch 24° C (75°F) is optimal for growth

Dissolved Gasses

Oxygen  $\geq$  5 ppm

Nitrogen -- <100% saturation

Hydrogen Sulfide --  $\leq$ 0.1 ppb

Carbon Dioxide --  $\leq$ 10 ppm

Hydrogen Cyanide --  $\leq$ 10 ppb

pH -- 6.7 to 8.2

Ammonia -- <0.02 ppm

Nitrate -- <3.0 ppm

Total Alkalinity (as CaCO<sub>3</sub>) -- 50 to 400 ppm (~200 ppm optimal)

Total Hardness (as CaCO<sub>3</sub>) -- 50 to 400 ppm (120 to 300 ppm optimal)

Manganese -- <0.01 ppm

Iron -- ferrous ion -- 0.0 ppm

Iron -- ferric ion -- <0.5 ppm

Zinc -- <0.05