



Aquatics

Mission:

Our mission is to serve as the principal advocate for and steward of South Carolina's natural resources.



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Optimum Water Quality Parameters for Trout

Parameter	Optimum Levels
Dissolved Oxygen	5 mg/L to Saturation
Temperature	45-65 F
pH	6.5-8.0
Total Alkalinity (CaCO ₃)	10-400 mg/L
Calcium	4-160 mg/L
Manganese	0-0.01 mg/L
Iron (total)	0-0.15 mg/L
Zinc	0-0.05 mg/L
Nitrogen Gas	Less than 100% Saturation
Carbon dioxide	10 mg/L or less
Hydrogen sulfide	0.1 ppb or less

Optimum Water Quality Parameters for Warm Water Fish

Parameter	Optimum Levels (Varies with Species)
Dissolved Oxygen	5-7 mg/L
Temperature	20-32 C
Secchi Disk	30-45 cm
Salinity	≤ 300 mg/L
pH	6-9
Total Alkalinity	≥ 20 mg/L
Total Hardness	75-150 mg/L
Ammonia	< 0.5-2.0 mg/L
Hydrogen sulfite	< 0.01-0.05 mg/L

Training Slide Show

http://dnr.sc.gov/education/Envirothon/Envirothon_2008_Arizona_South_Carolina.pdf

Related Links

General Water Quality

<http://aquanic.org/publicat/state/ga/trout.htm>
<http://gf.state.wy.us/habitat/aquatic/index.asp>
<http://aquanic.org/publicat/state/il-in/as-503.htm>
<http://www.extension.umn.edu/distribution/naturalresources/components/DD6946e.html>
<http://www.lib.noaa.gov/docaqu/basicaqua.html>
<http://www.riparianbuffers.umd.edu/manuals/correll.html>
<http://www.riparianbuffers.umd.edu/manual.html>
http://www.geoscientific.com/technical/tech_references_pdf_files/BC%20Instream%20Flow%20Guidelines%20for%20Fish.pdf
<http://waterdata.usgs.gov/nwis/qw>

Invasive Species

<http://plants.ifas.ufl.edu/>
<http://www.apms.org/>
<http://www.wapms.org/>
<http://invasions.si.edu/aird/>
<http://www.invasivespeciesinfo.gov/aquatics/databases.shtml#aqsp>
<http://www.dnr.sc.gov/water/envaff/aquatic/illegal1.html>
<http://ag.arizona.edu/azaqua/extension/ANS/ANS.htm>

Indicator Species

http://www.sf.adfg.state.ak.us/statewide/ngplan/files/Freshwater_Invertebrates.pdf
<http://www.epa.gov/bioiweb1/html/indicator.html>

Recreation Affects on Aquatics

<http://leopold.wilderness.net/recData/index.cfm>
http://www.pce.govt.nz/reports/allreports/0_908804_75_X.pdf
<http://www4.ncsu.edu/~leung/recres1.html>
http://www.fws.gov/southwest/es/arizona/Documents/SpeciesDocs/SWWF/Final%20Recovery%20Plan/Recovery%20Plan%20Appendices/M_RecreationImpacts.pdf
<http://www.srn.arizona.edu/~gimblett/RBSimBibliography.htm>
<http://www.imba.com/resources/science/>