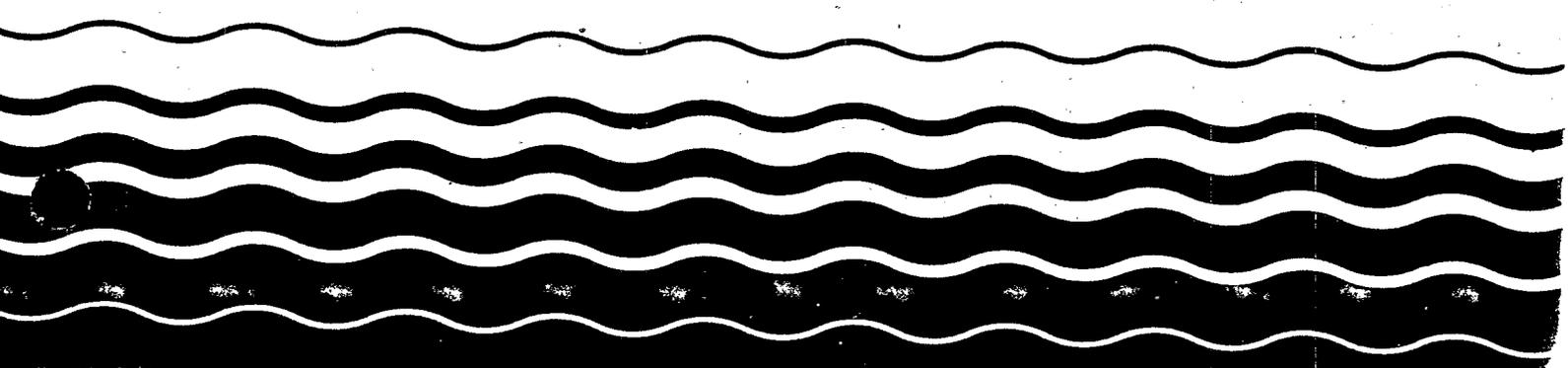




Water

# State Water Quality Standards Summary: Idaho





## DISCLAIMER

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The reader should consult the water quality standards of a particular State for exact regulatory language applicable to that State. Copies of State water quality standards may be obtained from the State's Water Pollution Control Agency or its equivalent.

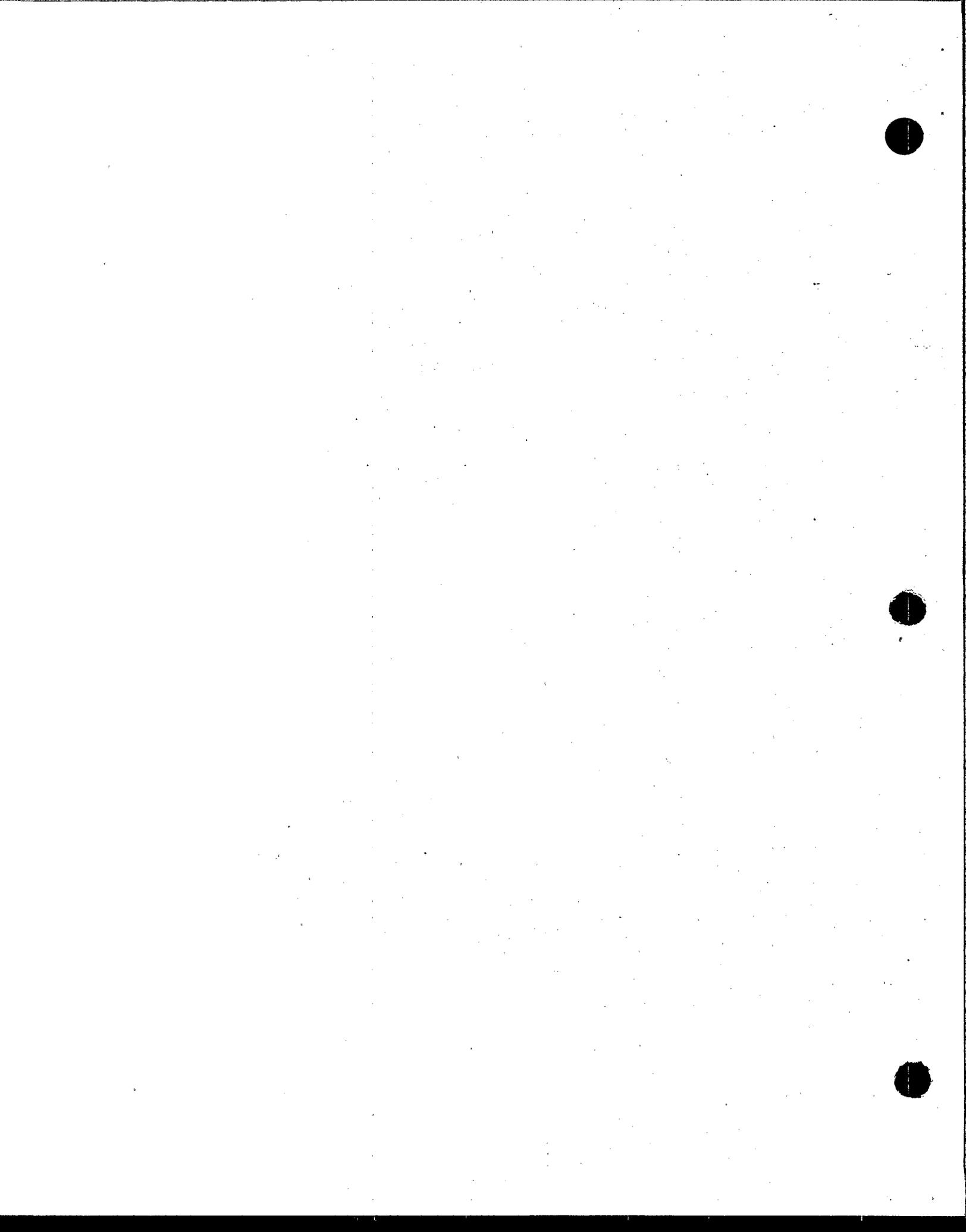
Additional information may also be obtained from the:

Standards Branch  
Criteria and Standards Division (WH-585)  
Office of Water Regulations and Standards  
U.S. Environmental Protection Agency  
Washington, D.C. 20460  
202-475-7315

This document may be obtained only from the National Technical Information Service (NTIS) at the following address:

National Technical Information Service  
5285 Front Royal Road  
Springfield, Virginia 22161  
703-487-4650

The NTIS order number is: PB89-141808



## IDAHO

### Responsible Agency:

Idaho Dept. of Health and Welfare  
Division of Environmental Quality  
450 W. State Street

Boise 83720  
208-334-5839

### State Contact:

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Water Quality Bureau, Div. Env. Quality  
Idaho Department of Health and Welfare  
450 W. State Street  
Boise 83720 208-334-5860

### Standards Available From:

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Idaho Department of Health and Welfare  
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450 W. State Street

Boise 83720

Fee: Mailing List: no

### State Contact:

Ms. Susan Martin  
Manager  
Plan. & Tech. Support Sect., W.Q. Bureau  
Idaho Dept. of Health and Welfare  
450 W. State Street  
Boise 83720 208-334-5845

### State Narrative Language For: Antidegradation

No new point source can discharge, and no existing point source can increase its discharge, above the design capacity of the existing wastewater treatment facility to any water designated as special resource water or to the upstream segment of a special resource water, if pollutants significant to the designated uses contained in that discharge can or will result in a reduction of the ambient water quality of the receiving special resource water as measured immediately below applicable mixing zone.

Please refer to the "EPA Water Quality Criteria Summaries: A Compilation of State/Federal Criteria" for additional antidegradation language for Idaho.

### State Narrative Language For: Toxics

The following general water quality standards will apply to waters of the State, both surface and underground, in addition to the water quality standards set forth for specifically classified waters. As a result of man-caused point or nonpoint source discharge, waters of the State must not contain:

- .01 Hazardous Materials: (see Section 01.2003,19.) in concentrations found to be of public health significance or to adversely affect designated or protected beneficial uses.
- .02 Deleterious Materials: (see Section 01.2003,07.) in concentrations that impair designated or protected beneficial uses without being hazardous.

### State Narrative Language For: Free From

Waters of the State must not contain:

1. Hazardous materials in concentrations found to be of public health significance or to adversely affect designated or protected beneficial uses.
2. Deleterious materials in concentrations that impair designated or protected beneficial uses without being hazardous. These materials do not include suspended sediment produced as a result of nonpoint source activity
3. Radioactive materials or radioactivity which:
  - (a) Exceed one-third (1/3) of the values listed in Idaho Department of Health and Welfare Rules and Regulations, Title 1, Chapter 9, Section 01.9110,03.a.ii., "Rules Governing Radiation Control."
  - (b) Exceed concentrations required to meet the "Radiation Protection Guides" for maximum exposure of critical human organs recommended by the former Federal Radiation Council in the case of food stuffs harvested from these waters for human consumption.
4. Floating, suspended, or submerged matter of any kind in concentrations causing nuisance or objectionable conditions or that may adversely affect designated beneficial uses.
5. Excess nutrients that can cause visible slime growths or other nuisance aquatic growths impairing designated or protected beneficial uses.
6. Oxygen-demanding materials in concentrations that would result in an anaerobic water condition.
7. Sediment in quantities specified in Idaho Dept. of Health and Welfare Rules and Regulations Section 01.2250 or, in the absence of specific sediment criteria, in quantities which impair beneficial uses. Determinations of impairment shall be based on water quality monitoring and surv. and the information described in Idaho Rules and Regulations Section 01.2300, 04.b.

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### State Narrative Language For: Mixing Zones

After a biological, chemical, and physical appraisal of the receiving water and the proposed discharge and after consultation with the person(s) responsible for the wastewater discharge, the Department will determine the applicability of a mixing zone and, if applicable, its size, configuration, and location. In defining a mixing zone, the Department will consider the following principals:

(a) The mixing zone may receive wastewater through a submerged pipe, conduit, or diffuser.

(b) The mixing zone is to be located so it does not cause unreasonable interference with or danger to existing beneficial uses.

(c) When two (2) or more individual mixing zones are needed for a single activity, the sum of the areas and volumes of the several mixing zones is not to exceed the area and volume which would be allowed for a single zone.

(d) Multiple mixing zones can be established for a single discharge, each being specific for one (1) or more pollutants contained within the discharged wastewater.

(e) Mixing zones in flowing receiving waters are to be limited to the following:

i. The cumulative width of adjacent mixing zones when measured across the receiving water is not to exceed 50% of the total width of the receiving water at that point.

ii. The width of a mixing zone is not to exceed 25% of the stream width of three hundred meters plus the horizontal length of the diffuser as measured perpendicularly to the stream flow, whichever is less.

iii. The mixing zone is to be no closer to the 10 year, 7 day low-flow shoreline than 15% of the stream width. Please refer to the "EPA Water Quality Criteria Summaries: A Compilation of State/Federal Criteria" for additional mixing zone language for Idaho.

## IDAHO

### Classifications:

- Agricultural Water Supplies** Waters which are suitable or intended to be made suitable for the irrigation of crops or as drinking water for livestock.
- Domestic Water Supplies** Waters which are suitable or intended to be made suitable for drinking water supplies.
- Cold Water Biota** Waters which are suitable or intended to be made suitable for protection and maintenance of viable communities of aquatic organisms and populations of significant aquatic species which have optimal growing temperatures below 18 degrees C.
- Warm Water Biota** Waters which are suitable or intended to be made suitable for protection and maintenance of viable communities of aquatic organisms and populations of significant aquatic species which have optimal growing temperatures above 18 degrees C.
- Salmonid Spawning** Waters which provide or could provide a habitat for active self-propagating populations of salmonid fish.
- Primary Contact Recreation** Surface waters which are suitable or intended to be made suitable for prolonged and intimate contact by humans or for recreational activities when the ingestion of small quantities of water is likely to occur. Such waters include, but are not restricted to, those used for swimming, water skiing or skin diving.
- Secondary Contact Recreation** Surface waters which are suitable or intended to be made suitable for recreational uses on or about the water which are not included in the primary contact category. These waters may be used for fishing, boating, wading and other activities where ingestion of raw water is not probable.
- Unspecified Surface Waters** Surface waters not specified in Idaho Department of Health and Welfare Rules and Regulations Section 01.2110 -- 01.2160 are designated as primary contact recreational waters, unless the physical characteristics of a water body prevent primary contact recreation. In those cases, the water body is designated a secondary contact recreational water.
- Industrial Water Supplies, Wildlife Habitats & Aesthetic** All State waters are designated for the uses of industrial water supplies, wildlife habitat and aesthetics. Water quality criteria for those uses will generally be satisfied by the general water quality standards (Idaho Dept. of Health & Welfare Rules and Regulations Section 01.2200). Should specificity be desirable or necessary to protect a specific use, appropriate criteria will be adopted in Idaho Dept. of Health & Welfare Rules and Regulations Sections 01.2250 or 01.2275 -- 01.2299.
- Man-Made Waterways** Unless designated in Idaho Dept. of Health & Welfare Rules and Regulations Sections 01.2110 -- 01.2160, man-made waterways are to be protected for the use for which they were developed.
- Private Waters** Unless designated in Idaho Dept. of Health & Welfare Rules and Regulations Sections 01.2110 -- 01.2160, lakes, ponds, pools, streams and springs outside public lands but located wholly and entirely upon a person's land are not protected specifically or generally for any beneficial use.

# IDAHO

	All Classes	Agricultural	Domestic	Cold Water Biot..
<b>Physical</b>				
pH				
Upper Value	9.0			
Lower Value	6.5			
Dissolved Oxygen				
Lower Value				6 mg/L
Temperature				
Upper Value				22 C
Turbidity				
Upper Value	Narr.			
<b>Nutrients</b>				
Ammonia, Tot.				
Upper Value				Narr.
Nitrate				
Upper Value			10 mg/L as N	
<b>Toxic Metals</b>				
Arsenic				
Upper Value			0.05 mg/L	
Cadmium				
Upper Value			0.01 mg/L	
Chromium - Total				
Upper Value			0.05 mg/L	
Cyanide				
Upper Value			0.02 mg/L	
Lead				
Upper Value			0.05 mg/L	
Mercury				
Upper Value			0.002 mg/L	
Barium				
Upper Value			1.000 mg/L	
Selenium				
Upper Value			0.01 mg/L	
Silver				
Upper Value			0.05 mg/L	
<b>Pesticides</b>				
2,4 D				
Upper Value			0.100 mg/L	
2,4,5-TP Silvex				
Upper Value			0.01 mg/L	
Endrin				
Upper Value			0.0002 mg/L	
Lindane				
Upper Value			0.004 mg/L	
Methoxychlor				
Upper Value			0.100 mg/L	
Toxaphene				
Upper Value			0.005 mg/L	
<b>Organics</b>				

Bacteria

All  
Classes

Agricultural

Domestic

Cold Water Biot..

Total Coliform  
Upper Value

Narr.

IDAHO

Warm Water Biot.. Salmonid Spawni.. Primary Contact Secondary Conta..

Physical

Dissolved Oxygen  
Lower Value  
Temperature  
Upper Value

5 mg/L 6 mg/L  
33 C 13 C

Nutrients

Ammonia, Tot.  
Upper Value

Narr. Narr.

Toxic Metals

Pesticides

Organics

Bacteria

Fecal Coliform  
Upper Value

500 /100 mL. 800 /100 mL.

IDAHO

Unspecified Sur.. Industrial Wate.. Man-Made Waterw.. Private Waters

Physical

Nutrients

Toxic Metals

Pesticides

Organics

Bacteria

