#### ELECTRONIC CODE OF FEDERAL REGULATIONS

# e-CFR data is current as of October 28, 2019

Title 40 → Chapter I → Subchapter D → Part 131

Title 40: Protection of Environment

#### **PART 131—WATER QUALITY STANDARDS**

#### **Contents**

#### **Subpart A—General Provisions**

- §131.1 Scope.
- §131.2 Purpose.
- §131.3 Definitions.
- §131.4 State authority.
- §131.5 EPA authority.
- §131.6 Minimum requirements for water quality standards submission.
- §131.7 Dispute resolution mechanism.
- §131.8 Requirements for Indian Tribes to administer a water quality standards program.

## Subpart B—Establishment of Water Quality Standards

- §131.10 Designation of uses.
- §131.11 Criteria.
- §131.12 Antidegradation policy and implementation methods.
- §131.13 General policies.
- §131.14 Water quality standards variances.
- §131.15 Authorizing the use of schedules of compliance for water quality-based effluent limits in NPDES permits.

### Subpart C—Procedures for Review and Revision of Water Quality Standards

- §131.20 State review and revision of water quality standards.
- §131.21 EPA review and approval of water quality standards.
- §131.22 EPA promulgation of water quality standards.

# **Subpart D—Federally Promulgated Water Quality Standards**

- §131.31 Arizona.
- §131.32 [Reserved]
- §131.33 Idaho.
- §131.34 Kansas.
- §131.35 Colville Confederated Tribes Indian Reservation.
- §131.36 Toxics criteria for those states not complying with Clean Water Act section 303(c)(2)(B).
- §131.37 California
- §131.38 Establishment of numeric criteria for priority toxic pollutants for the State of California.
- §131.40 Puerto Rico
- §131.41 Bacteriological criteria for those states not complying with Clean Water Act section 303(i)(1)(A).
- §131.42 Antidegradation Implementation Methods for the Commonwealth of Puerto Rico.
- §131.43 Maine.
- §131.44 Florida.
- §131.45 Revision of certain Federal water quality criteria applicable to Washington.
- §131.46 Aquatic life criterion for cadmium in Oregon.

AUTHORITY: 33 U.S.C. 1251 et seq.

Source: 48 FR 51405, Nov. 8, 1983, unless otherwise noted.

♣ Back to Top

# **Subpart A—General Provisions**

Back to Top

### §131.1 Scope.

This part describes the requirements and procedures for developing, reviewing, revising, and approving water quality standards by the States as authorized by section 303(c) of the Clean Water Act. Additional specific procedures for developing, reviewing, revising, and approving water quality standards for Great Lakes States or Great Lakes Tribes (as defined in 40 CFR 132.2) to conform to section 118 of the Clean Water Act and 40 CFR part 132, are provided in 40 CFR part 132.

[60 FR 15386, Mar. 23, 1995]

≜ Back to Top

## §131.2 Purpose.

A water quality standard defines the water quality goals of a water body, or portion thereof, by designating the use or uses to be made of the water and by setting criteria that protect the designated uses. States adopt water quality standards to protect public health or welfare, enhance the quality of water and serve the purposes of the Clean Water Act (the Act). "Serve the purposes of the Act" (as defined in sections 101(a)(2) and 303(c) of the Act) means that water quality standards should, wherever attainable, provide water quality for the protection and propagation of fish, shellfish and wildlife and for recreation in and on the water and take into consideration their use and value of public water supplies, propagation of fish, shellfish, and wildlife, recreation in and on the water, and agricultural, industrial, and other purposes including navigation.

Such standards serve the dual purposes of establishing the water quality goals for a specific water body and serve as the regulatory basis for the establishment of water-quality-based treatment controls and strategies beyond the technology-based levels of treatment required by sections 301(b) and 306 of the Act.

[48 FR 51405, Nov. 8, 1983, as amended at 80 FR 51046, Aug. 21, 2015]

▲ Back to Top

#### §131.3 Definitions.

- (a) The Act means the Clean Water Act (Pub. L. 92-500, as amended (33 U.S.C. 1251 et seq.)).
- (b) *Criteria* are elements of State water quality standards, expressed as constituent concentrations, levels, or narrative statements, representing a quality of water that supports a particular use. When criteria are met, water quality will generally protect the designated use.
- (c) Section 304(a) criteria are developed by EPA under authority of section 304(a) of the Act based on the latest scientific information on the relationship that the effect of a constituent concentration has on particular aquatic species and/or human health. This information is issued periodically to the States as guidance for use in developing criteria.
  - (d) Toxic pollutants are those pollutants listed by the Administrator under section 307(a) of the Act.
- (e) Existing uses are those uses actually attained in the water body on or after November 28, 1975, whether or not they are included in the water quality standards.
- (f) *Designated uses* are those uses specified in water quality standards for each water body or segment whether or not they are being attained.
- (g) *Use attainability analysis* is a structured scientific assessment of the factors affecting the attainment of the use which may include physical, chemical, biological, and economic factors as described in §131.10(g).
- (h) Water quality limited segment means any segment where it is known that water quality does not meet applicable water quality standards, and/or is not expected to meet applicable water quality standards, even after the application of the technology-based effluent limitations required by sections 301(b) and 306 of the Act.
- (i) Water quality standards are provisions of State or Federal law which consist of a designated use or uses for the waters of the United States and water quality criteria for such waters based upon such uses. Water quality standards are to protect the public health or welfare, enhance the quality of water and serve the purposes of the Act.
- (j) States include: The 50 States, the District of Columbia, Guam, the Commonwealth of Puerto Rico, Virgin Islands, American Samoa, the Commonwealth of the Northern Mariana Islands, and Indian Tribes that EPA determines to be eligible for

purposes of the water quality standards program.

- (k) Federal Indian Reservation, Indian Reservation, or Reservation means all land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and including rights-of-way running through the reservation."
- (I) *Indian Tribe* or *Tribe* means any Indian Tribe, band, group, or community recognized by the Secretary of the Interior and exercising governmental authority over a Federal Indian reservation.
- (m) Highest attainable use is the modified aquatic life, wildlife, or recreation use that is both closest to the uses specified in section 101(a)(2) of the Act and attainable, based on the evaluation of the factor(s) in §131.10(g) that preclude(s) attainment of the use and any other information or analyses that were used to evaluate attainability. There is no required highest attainable use where the State demonstrates the relevant use specified in section 101(a)(2) of the Act and sub-categories of such a use are not attainable.
- (n) *Practicable*, in the context of §131.12(a)(2)(ii), means technologically possible, able to be put into practice, and economically viable.
- (o) A water quality standards variance (WQS variance) is a time-limited designated use and criterion for a specific pollutant(s) or water quality parameter(s) that reflect the highest attainable condition during the term of the WQS variance.
- (p) *Pollutant Minimization Program*, in the context of §131.14, is a structured set of activities to improve processes and pollutant controls that will prevent and reduce pollutant loadings.
- (q) Non-101(a)(2) use is any use unrelated to the protection and propagation of fish, shellfish, wildlife or recreation in or on the water.

[48 FR 51405, Nov. 8, 1983, as amended at 56 FR 64893, Dec. 12, 1991; 59 FR 64344, Dec. 14, 1994; 80 FR 51046, Aug. 21, 2015]

♣ Back to Top

#### §131.4 State authority.

- (a) States (as defined in §131.3) are responsible for reviewing, establishing, and revising water quality standards. As recognized by section 510 of the Clean Water Act, States may develop water quality standards more stringent than required by this regulation. Consistent with section 101(g) and 518(a) of the Clean Water Act, water quality standards shall not be construed to supersede or abrogate rights to quantities of water.
- (b) States (as defined in §131.3) may issue certifications pursuant to the requirements of Clean Water Act section 401. Revisions adopted by States shall be applicable for use in issuing State certifications consistent with the provisions of §131.21(c).
- (c) Where EPA determines that a Tribe is eligible to the same extent as a State for purposes of water quality standards, the Tribe likewise is eligible to the same extent as a State for purposes of certifications conducted under Clean Water Act section 401.

[56 FR 64893, Dec. 12, 1991, as amended at 59 FR 64344, Dec. 14, 1994]

♣ Back to Top

## §131.5 EPA authority.

- (a) Under section 303(c) of the Act, EPA is to review and to approve or disapprove State-adopted water quality standards. The review involves a determination of:
  - (1) Whether the State has adopted designated water uses that are consistent with the requirements of the Clean Water Act;
- (2) Whether the State has adopted criteria that protect the designated water uses based on sound scientific rationale consistent with §131.11;
- (3) Whether the State has adopted an antidegradation policy that is consistent with §131.12, and whether any State adopted antidegradation implementation methods are consistent with §131.12;
  - (4) Whether any State adopted WQS variance is consistent with §131.14;

- (5) Whether any State adopted provision authorizing the use of schedules of compliance for water quality-based effluent limits in NPDES permits is consistent with §131.15;
  - (6) Whether the State has followed applicable legal procedures for revising or adopting standards;
- (7) Whether the State standards which do not include the uses specified in section 101(a)(2) of the Act are based upon appropriate technical and scientific data and analyses, and
- (8) Whether the State submission meets the requirements included in §131.6 of this part and, for Great Lakes States or Great Lakes Tribes (as defined in 40 CFR 132.2) to conform to section 118 of the Act, the requirements of 40 CFR part 132.
- (b) If EPA determines that the State's or Tribe's water quality standards are consistent with the factors listed in paragraphs (a)(1) through (8) of this section, EPA approves the standards. EPA must disapprove the State's or Tribe's water quality standards and promulgate Federal standards under section 303(c)(4), and for Great Lakes States or Great Lakes Tribes under section 118(c)(2)(C) of the Act, if State or Tribal adopted standards are not consistent with the factors listed in paragraphs (a)(1) through (8) of this section. EPA may also promulgate a new or revised standard when necessary to meet the requirements of the Act.
- (c) Section 401 of the Clean Water Act authorizes EPA to issue certifications pursuant to the requirements of section 401 in any case where a State or interstate agency has no authority for issuing such certifications.

[48 FR 51405, Nov. 8, 1983, as amended at 56 FR 64894, Dec. 12, 1991; 60 FR 15387, Mar. 23, 1995; 80 FR 51047, Aug. 21, 2015]

#### ♣ Back to Top

## §131.6 Minimum requirements for water quality standards submission.

The following elements must be included in each State's water quality standards submitted to EPA for review:

- (a) Use designations consistent with the provisions of sections 101(a)(2) and 303(c)(2) of the Act.
- (b) Methods used and analyses conducted to support water quality standards revisions.
- (c) Water quality criteria sufficient to protect the designated uses.
- (d) An antidegradation policy consistent with §131.12.
- (e) Certification by the State Attorney General or other appropriate legal authority within the State that the water quality standards were duly adopted pursuant to State law.
- (f) General information which will aid the Agency in determining the adequacy of the scientific basis of the standards which do not include the uses specified in section 101(a)(2) of the Act as well as information on general policies applicable to State standards which may affect their application and implementation.

# Back to Top

## §131.7 Dispute resolution mechanism.

- (a) Where disputes between States and Indian Tribes arise as a result of differing water quality standards on common bodies of water, the lead EPA Regional Administrator, as determined based upon OMB circular A-105, shall be responsible for acting in accordance with the provisions of this section.
  - (b) The Regional Administrator shall attempt to resolve such disputes where:
  - (1) The difference in water quality standards results in unreasonable consequences;
- (2) The dispute is between a State (as defined in §131.3(j) but exclusive of all Indian Tribes) and a Tribe which EPA has determined is eligible to the same extent as a State for purposes of water quality standards;
  - (3) A reasonable effort to resolve the dispute without EPA involvement has been made;
  - (4) The requested relief is consistent with the provisions of the Clean Water Act and other relevant law;
- (5) The differing State and Tribal water quality standards have been adopted pursuant to State and Tribal law and approved by EPA; and
  - (6) A valid written request has been submitted by either the Tribe or the State.

- (c) Either a State or a Tribe may request EPA to resolve any dispute which satisfies the criteria of paragraph (b) of this section. Written requests for EPA involvement should be submitted to the lead Regional Administrator and must include:
- (1) A concise statement of the unreasonable consequences that are alleged to have arisen because of differing water quality standards;
  - (2) A concise description of the actions which have been taken to resolve the dispute without EPA involvement;
- (3) A concise indication of the water quality standards provision which has resulted in the alleged unreasonable consequences;
  - (4) Factual data to support the alleged unreasonable consequences; and
  - (5) A statement of the relief sought from the alleged unreasonable consequences.
- (d) Where, in the Regional Administrator's judgment, EPA involvement is appropriate based on the factors of paragraph (b) of this section, the Regional Administrator shall, within 30 days, notify the parties in writing that he/she is initiating an EPA dispute resolution action and solicit their written response. The Regional Administrator shall also make reasonable efforts to ensure that other interested individuals or groups have notice of this action. Such efforts shall include but not be limited to the following:
  - (1) Written notice to responsible Tribal and State Agencies, and other affected Federal agencies,
- (2) Notice to the specific individual or entity that is alleging that an unreasonable consequence is resulting from differing standards having been adopted on a common body of water,
  - (3) Public notice in local newspapers, radio, and television, as appropriate,
  - (4) Publication in trade journal newsletters, and
  - (5) Other means as appropriate.
- (e) If in accordance with applicable State and Tribal law an Indian Tribe and State have entered into an agreement that resolves the dispute or establishes a mechanism for resolving a dispute, EPA shall defer to this agreement where it is consistent with the Clean Water Act and where it has been approved by EPA.
  - (f) EPA dispute resolution actions shall be consistent with one or a combination of the following options:
- (1) *Mediation.* The Regional Administrator may appoint a mediator to mediate the dispute. Mediators shall be EPA employees, employees from other Federal agencies, or other individuals with appropriate qualifications.
- (i) Where the State and Tribe agree to participate in the dispute resolution process, mediation with the intent to establish Tribal-State agreements, consistent with Clean Water Act section 518(d), shall normally be pursued as a first effort.
- (ii) Mediators shall act as neutral facilitators whose function is to encourage communication and negotiation between all parties to the dispute.
- (iii) Mediators may establish advisory panels, to consist in part of representatives from the affected parties, to study the problem and recommend an appropriate solution.
- (iv) The procedure and schedule for mediation of individual disputes shall be determined by the mediator in consultation with the parties.
- (v) If formal public hearings are held in connection with the actions taken under this paragraph, Agency requirements at 40 CFR 25.5 shall be followed.
- (2) Arbitration. Where the parties to the dispute agree to participate in the dispute resolution process, the Regional Administrator may appoint an arbitrator or arbitration panel to arbitrate the dispute. Arbitrators and panel members shall be EPA employees, employees from other Federal agencies, or other individuals with appropriate qualifications. The Regional administrator shall select as arbitrators and arbitration panel members individuals who are agreeable to all parties, are knowledgeable concerning the requirements of the water quality standards program, have a basic understanding of the political and economic interests of Tribes and States involved, and are expected to fulfill the duties fairly and impartially.
- (i) The arbitrator or arbitration panel shall conduct one or more private or public meetings with the parties and actively solicit information pertaining to the effects of differing water quality permit requirements on upstream and downstream dischargers, comparative risks to public health and the environment, economic impacts, present and historical water uses, the

quality of the waters subject to such standards, and other factors relevant to the dispute, such as whether proposed water quality criteria are more stringent than necessary to support designated uses, more stringent than natural background water quality or whether designated uses are reasonable given natural background water quality.

- (ii) Following consideration of relevant factors as defined in paragraph (f)(2)(i) of this section, the arbitrator or arbitration panel shall have the authority and responsibility to provide all parties and the Regional Administrator with a written recommendation for resolution of the dispute. Arbitration panel recommendations shall, in general, be reached by majority vote. However, where the parties agree to binding arbitration, or where required by the Regional Administrator, recommendations of such arbitration panels may be unanimous decisions. Where binding or non-binding arbitration panels cannot reach a unanimous recommendation after a reasonable period of time, the Regional Administrator may direct the panel to issue a non-binding decision by majority vote.
- (iii) The arbitrator or arbitration panel members may consult with EPA's Office of General Counsel on legal issues, but otherwise shall have no *ex parte* communications pertaining to the dispute. Federal employees who are arbitrators or arbitration panel members shall be neutral and shall not be predisposed for or against the position of any disputing party based on any Federal Trust responsibilities which their employers may have with respect to the Tribe. In addition, arbitrators or arbitration panel members who are Federal employees shall act independently from the normal hierarchy within their agency.
- (iv) The parties are not obligated to abide by the arbitrator's or arbitration panel's recommendation unless they voluntarily entered into a binding agreement to do so.
- (v) If a party to the dispute believes that the arbitrator or arbitration panel has recommended an action contrary to or inconsistent with the Clean Water Act, the party may appeal the arbitrator's recommendation to the Regional Administrator. The request for appeal must be in writing and must include a description of the statutory basis for altering the arbitrator's recommendation.
- (vi) The procedure and schedule for arbitration of individual disputes shall be determined by the arbitrator or arbitration panel in consultation with parties.
- (vii) If formal public hearings are held in connection with the actions taken under this paragraph, Agency requirements at 40 CFR 25.5 shall be followed.
- (3) Dispute resolution default procedure. Where one or more parties (as defined in paragraph (g) of this section) refuse to participate in either the mediation or arbitration dispute resolution processes, the Regional Administrator may appoint a single official or panel to review available information pertaining to the dispute and to issue a written recommendation for resolving the dispute. Review officials shall be EPA employees, employees from other Federal agencies, or other individuals with appropriate qualifications. Review panels shall include appropriate members to be selected by the Regional Administrator in consultation with the participating parties. Recommendations of such review officials or panels shall, to the extent possible given the lack of participation by one or more parties, be reached in a manner identical to that for arbitration of disputes specified in paragraphs (f)(2)(i) through (f)(2)(vii) of this section.
  - (g) Definitions. For the purposes of this section:
- (1) Dispute Resolution Mechanism means the EPA mechanism established pursuant to the requirements of Clean Water Act section 518(e) for resolving unreasonable consequences that arise as a result of differing water quality standards that may be set by States and Indian Tribes located on common bodies of water.
- (2) *Parties* to a State-Tribal dispute include the State and the Tribe and may, at the discretion of the Regional Administrator, include an NPDES permittee, citizen, citizen group, or other affected entity.

[56 FR 64894, Dec. 12, 1991, as amended at 59 FR 64344, Dec. 14, 1994]

♣ Back to Top

#### §131.8 Requirements for Indian Tribes to administer a water quality standards program.

- (a) The Regional Administrator, as determined based on OMB Circular A-105, may accept and approve a tribal application for purposes of administering a water quality standards program if the Tribe meets the following criteria:
  - (1) The Indian Tribe is recognized by the Secretary of the Interior and meets the definitions in §131.3 (k) and (l),
  - (2) The Indian Tribe has a governing body carrying out substantial governmental duties and powers,
- (3) The water quality standards program to be administered by the Indian Tribe pertains to the management and protection of water resources which are within the borders of the Indian reservation and held by the Indian Tribe, within the borders of the

Indian reservation and held by the United States in trust for Indians, within the borders of the Indian reservation and held by a member of the Indian Tribe if such property interest is subject to a trust restriction on alienation, or otherwise within the borders of the Indian reservation, and

- (4) The Indian Tribe is reasonably expected to be capable, in the Regional Administrator's judgment, of carrying out the functions of an effective water quality standards program in a manner consistent with the terms and purposes of the Act and applicable regulations.
- (b) Requests by Indian Tribes for administration of a water quality standards program should be submitted to the lead EPA Regional Administrator. The application shall include the following information:
  - (1) A statement that the Tribe is recognized by the Secretary of the Interior.
- (2) A descriptive statement demonstrating that the Tribal governing body is currently carrying out substantial governmental duties and powers over a defined area. The statement should:
  - (i) Describe the form of the Tribal government;
- (ii) Describe the types of governmental functions currently performed by the Tribal governing body such as, but not limited to, the exercise of police powers affecting (or relating to) the health, safety, and welfare of the affected population, taxation, and the exercise of the power of eminent domain; and
- (iii) Identify the source of the Tribal government's authority to carry out the governmental functions currently being performed.
  - (3) A descriptive statement of the Indian Tribe's authority to regulate water quality. The statement should include:
  - (i) A map or legal description of the area over which the Indian Tribe asserts authority to regulate surface water quality;
- (ii) A statement by the Tribe's legal counsel (or equivalent official) which describes the basis for the Tribes assertion of authority and which may include a copy of documents such as Tribal constitutions, by-laws, charters, executive orders, codes, ordinances, and/or resolutions which support the Tribe's assertion of authority; and
  - (iii) An identification of the surface waters for which the Tribe proposes to establish water quality standards.
- (4) A narrative statement describing the capability of the Indian Tribe to administer an effective water quality standards program. The narrative statement should include:
- (i) A description of the Indian Tribe's previous management experience which may include the administration of programs and services authorized by the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450 *et seq.*), the Indian Mineral Development Act (25 U.S.C. 2101 *et seq.*), or the Indian Sanitation Facility Construction Activity Act (42 U.S.C. 2004a);
- (ii) A list of existing environmental or public health programs administered by the Tribal governing body and copies of related Tribal laws, policies, and regulations;
- (iii) A description of the entity (or entities) which exercise the executive, legislative, and judicial functions of the Tribal government;
- (iv) A description of the existing, or proposed, agency of the Indian Tribe which will assume primary responsibility for establishing, reviewing, implementing and revising water quality standards;
- (v) A description of the technical and administrative capabilities of the staff to administer and manage an effective water quality standards program or a plan which proposes how the Tribe will acquire additional administrative and technical expertise. The plan must address how the Tribe will obtain the funds to acquire the administrative and technical expertise.
- (5) Additional documentation required by the Regional Administrator which, in the judgment of the Regional Administrator, is necessary to support a Tribal application.
- (6) Where the Tribe has previously qualified for eligibility or "treatment as a state" under a Clean Water Act or Safe Drinking Water Act program, the Tribe need only provide the required information which has not been submitted in a previous application.
- (c) Procedure for processing an Indian Tribe's application. (1) The Regional Administrator shall process an application of an Indian Tribe submitted pursuant to §131.8(b) in a timely manner. He shall promptly notify the Indian Tribe of receipt of the application.

- (2) Within 30 days after receipt of the Indian Tribe's application the Regional Administrator shall provide appropriate notice. Notice shall:
- (i) Include information on the substance and basis of the Tribe's assertion of authority to regulate the quality of reservation waters: and
  - (ii) Be provided to all appropriate governmental entities.
- (3) The Regional Administrator shall provide 30 days for comments to be submitted on the Tribal application. Comments shall be limited to the Tribe's assertion of authority.
- (4) If a Tribe's asserted authority is subject to a competing or conflicting claim, the Regional Administrator, after due consideration, and in consideration of other comments received, shall determine whether the Tribe has adequately demonstrated that it meets the requirements of §131.8(a)(3).
- (5) Where the Regional Administrator determines that a Tribe meets the requirements of this section, he shall promptly provide written notification to the Indian Tribe that the Tribe is authorized to administer the Water Quality Standards program.

[56 FR 64895, Dec. 12, 1991, as amended at 59 FR 64344, Dec. 14, 1994]

Back to Top

# Subpart B—Establishment of Water Quality Standards

▲ Back to Top

## §131.10 Designation of uses.

- (a) Each State must specify appropriate water uses to be achieved and protected. The classification of the waters of the State must take into consideration the use and value of water for public water supplies, protection and propagation of fish, shellfish and wildlife, recreation in and on the water, agricultural, industrial, and other purposes including navigation. If adopting new or revised designated uses other than the uses specified in section 101(a)(2) of the Act, or removing designated uses, States must submit documentation justifying how their consideration of the use and value of water for those uses listed in this paragraph appropriately supports the State's action. A use attainability analysis may be used to satisfy this requirement. In no case shall a State adopt waste transport or waste assimilation as a designated use for any waters of the United States.
- (b) In designating uses of a water body and the appropriate criteria for those uses, the State shall take into consideration the water quality standards of downstream waters and shall ensure that its water quality standards provide for the attainment and maintenance of the water quality standards of downstream waters.
- (c) States may adopt sub-categories of a use and set the appropriate criteria to reflect varying needs of such sub-categories of uses, for instance, to differentiate between cold water and warm water fisheries.
- (d) At a minimum, uses are deemed attainable if they can be achieved by the imposition of effluent limits required under sections 301(b) and 306 of the Act and cost-effective and reasonable best management practices for nonpoint source control.
  - (e) [Reserved]
- (f) States may adopt seasonal uses as an alternative to reclassifying a water body or segment thereof to uses requiring less stringent water quality criteria. If seasonal uses are adopted, water quality criteria should be adjusted to reflect the seasonal uses, however, such criteria shall not preclude the attainment and maintenance of a more protective use in another season.
- (g) States may designate a use, or remove a use that is *not* an existing use, if the State conducts a use attainability analysis as specified in paragraph (j) of this section that demonstrates attaining the use is not feasible because of one of the six factors in this paragraph. If a State adopts a new or revised water quality standard based on a required use attainability analysis, the State shall also adopt the highest attainable use, as defined in §131.3(m).
  - (1) Naturally occurring pollutant concentrations prevent the attainment of the use; or
- (2) Natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating State water conservation requirements to enable uses to be met; or
- (3) Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place; or

- (4) Dams, diversions or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the water body to its original condition or to operate such modification in a way that would result in the attainment of the use; or
- (5) Physical conditions related to the natural features of the water body, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of aquatic life protection uses; or
- (6) Controls more stringent than those required by sections 301(b) and 306 of the Act would result in substantial and widespread economic and social impact.
  - (h) States may not remove designated uses if:
  - (1) They are existing uses, as defined in §131.3, unless a use requiring more stringent criteria is added; or
- (2) Such uses will be attained by implementing effluent limits required under sections 301(b) and 306 of the Act and by implementing cost-effective and reasonable best management practices for nonpoint source control.
- (i) Where existing water quality standards specify designated uses less than those which are presently being attained, the State shall revise its standards to reflect the uses actually being attained.
  - (j) A State must conduct a use attainability analysis as described in §131.3(g), and paragraph (g) of this section, whenever:
- (1) The State designates for the first time, or has previously designated for a water body, uses that do not include the uses specified in section 101(a)(2) of the Act; or
- (2) The State wishes to remove a designated use that is specified in section 101(a)(2) of the Act, to remove a sub-category of such a use, or to designate a sub-category of such a use that requires criteria less stringent than previously applicable.
  - (k) A State is not required to conduct a use attainability analysis whenever:
- (1) The State designates for the first time, or has previously designated for a water body, uses that include the uses specified in section 101(a)(2) of the Act; or
- (2) The State designates a sub-category of a use specified in section 101(a)(2) of the Act that requires criteria at least as stringent as previously applicable; or
- (3) The State wishes to remove or revise a designated use that is a non-101(a)(2) use. In this instance, as required by paragraph (a) of this section, the State must submit documentation justifying how its consideration of the use and value of water for those uses listed in paragraph (a) appropriately supports the State's action, which may be satisfied through a use attainability analysis.

[48 FR 51405, Nov. 8, 1983, as amended at 80 FR 51047, Aug. 21, 2015]

# ♣ Back to Top

## §131.11 Criteria.

- (a) *Inclusion of pollutants:* (1) States must adopt those water quality criteria that protect the designated use. Such criteria must be based on sound scientific rationale and must contain sufficient parameters or constituents to protect the designated use. For waters with multiple use designations, the criteria shall support the most sensitive use.
- (2) *Toxic pollutants*. States must review water quality data and information on discharges to identify specific water bodies where toxic pollutants may be adversely affecting water quality or the attainment of the designated water use or where the levels of toxic pollutants are at a level to warrant concern and must adopt criteria for such toxic pollutants applicable to the water body sufficient to protect the designated use. Where a State adopts narrative criteria for toxic pollutants to protect designated uses, the State must provide information identifying the method by which the State intends to regulate point source discharges of toxic pollutants on water quality limited segments based on such narrative criteria. Such information may be included as part of the standards or may be included in documents generated by the State in response to the Water Quality Planning and Management Regulations (40 CFR part 130).
  - (b) Form of criteria: In establishing criteria, States should:
  - (1) Establish numerical values based on:
  - (i) 304(a) Guidance; or

- (ii) 304(a) Guidance modified to reflect site-specific conditions; or
- (iii) Other scientifically defensible methods;
- (2) Establish narrative criteria or criteria based upon biomonitoring methods where numerical criteria cannot be established or to supplement numerical criteria.

[48 FR 51405, Nov. 8, 1983, as amended at 51047, Aug. 21, 2015]

♣ Back to Top

### §131.12 Antidegradation policy and implementation methods.

- (a) The State shall develop and adopt a statewide antidegradation policy. The antidegradation policy shall, at a minimum, be consistent with the following:
- (1) Existing instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected.
- (2) Where the quality of the waters exceeds levels necessary to support the protection and propagation of fish, shellfish, and wildlife and recreation in and on the water, that quality shall be maintained and protected unless the State finds, after full satisfaction of the intergovernmental coordination and public participation provisions of the State's continuing planning process, that allowing lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located. In allowing such degradation or lower water quality, the State shall assure water quality adequate to protect existing uses fully. Further, the State shall assure that there shall be achieved the highest statutory and regulatory requirements for all new and existing point sources and all cost-effective and reasonable best management practices for nonpoint source control.
- (i) The State may identify waters for the protections described in paragraph (a)(2) of this section on a parameter-by-parameter basis or on a water body-by-water body basis. Where the State identifies waters for antidegradation protection on a water body-by-water body basis, the State shall provide an opportunity for public involvement in any decisions about whether the protections described in paragraph (a)(2) of this section will be afforded to a water body, and the factors considered when making those decisions. Further, the State shall not exclude a water body from the protections described in paragraph (a)(2) of this section solely because water quality does not exceed levels necessary to support all of the uses specified in section 101(a) (2) of the Act.
- (ii) Before allowing any lowering of high water quality, pursuant to paragraph (a)(2) of this section, the State shall find, after an analysis of alternatives, that such a lowering is necessary to accommodate important economic or social development in the area in which the waters are located. The analysis of alternatives shall evaluate a range of practicable alternatives that would prevent or lessen the degradation associated with the proposed activity. When the analysis of alternatives identifies one or more practicable alternatives, the State shall only find that a lowering is necessary if one such alternative is selected for implementation.
- (3) Where high quality waters constitute an outstanding National resource, such as waters of National and State parks and wildlife refuges and waters of exceptional recreational or ecological significance, that water quality shall be maintained and protected.
- (4) In those cases where potential water quality impairment associated with a thermal discharge is involved, the antidegradation policy and implementing method shall be consistent with section 316 of the Act.
- (b) The State shall develop methods for implementing the antidegradation policy that are, at a minimum, consistent with the State's policy and with paragraph (a) of this section. The State shall provide an opportunity for public involvement during the development and any subsequent revisions of the implementation methods, and shall make the methods available to the public.

[48 FR 51405, Nov. 8, 1983, as amended at 80 FR 51047, Aug. 21, 2015]

**▲** Back to Top

## §131.13 General policies.

States may, at their discretion, include in their State standards, policies generally affecting their application and implementation, such as mixing zones, low flows and variances. Such policies are subject to EPA review and approval.

Back to Top

### §131.14 Water quality standards variances.

States may adopt WQS variances, as defined in §131.3(o). Such a WQS variance is subject to the provisions of this section and public participation requirements at §131.20(b). A WQS variance is a water quality standard subject to EPA review and approval or disapproval.

- (a) Applicability. (1) A WQS variance may be adopted for a permittee(s) or water body/waterbody segment(s), but only applies to the permittee(s) or water body/waterbody segment(s) specified in the WQS variance.
- (2) Where a State adopts a WQS variance, the State must retain, in its standards, the underlying designated use and criterion addressed by the WQS variance, unless the State adopts and EPA approves a revision to the underlying designated use and criterion consistent with §§131.10 and 131.11. All other applicable standards not specifically addressed by the WQS variance remain applicable.
- (3) A WQS variance, once adopted by the State and approved by EPA, shall be the applicable standard for purposes of the Act under §131.21(d) through (e), for the following limited purposes. An approved WQS variance applies for the purposes of developing NPDES permit limits and requirements under 301(b)(1)(C), where appropriate, consistent with paragraph (a)(1) of this section. States and other certifying entities may also use an approved WQS variance when issuing certifications under section 401 of the Act.
- (4) A State may not adopt WQS variances if the designated use and criterion addressed by the WQS variance can be achieved by implementing technology-based effluent limits required under sections 301(b) and 306 of the Act.
  - (b) Requirements for Submission to EPA. (1) A WQS variance must include:
- (i) Identification of the pollutant(s) or water quality parameter(s), and the water body/waterbody segment(s) to which the WQS variance applies. Discharger(s)-specific WQS variances must also identify the permittee(s) subject to the WQS variance.
- (ii) The requirements that apply throughout the term of the WQS variance. The requirements shall represent the highest attainable condition of the water body or waterbody segment applicable throughout the term of the WQS variance based on the documentation required in (b)(2) of this section. The requirements shall not result in any lowering of the currently attained ambient water quality, unless a WQS variance is necessary for restoration activities, consistent with paragraph (b)(2)(i)(A)(2) of this section. The State must specify the highest attainable condition of the water body or waterbody segment as a quantifiable expression that is one of the following:
  - (A) For discharger(s)-specific WQS variances:
  - (1) The highest attainable interim criterion; or
  - (2) The interim effluent condition that reflects the greatest pollutant reduction achievable; or
- (3) If no additional feasible pollutant control technology can be identified, the interim criterion or interim effluent condition that reflects the greatest pollutant reduction achievable with the pollutant control technologies installed at the time the State adopts the WQS variance, and the adoption and implementation of a Pollutant Minimization Program.
  - (B) For WQS variances applicable to a water body or waterbody segment:
  - (1) The highest attainable interim use and interim criterion; or
- (2) If no additional feasible pollutant control technology can be identified, the interim use and interim criterion that reflect the greatest pollutant reduction achievable with the pollutant control technologies installed at the time the State adopts the WQS variance, and the adoption and implementation of a Pollutant Minimization Program.
- (iii) A statement providing that the requirements of the WQS variance are either the highest attainable condition identified at the time of the adoption of the WQS variance, or the highest attainable condition later identified during any reevaluation consistent with paragraph (b)(1)(v) of this section, whichever is more stringent.
- (iv) The term of the WQS variance, expressed as an interval of time from the date of EPA approval or a specific date. The term of the WQS variance must only be as long as necessary to achieve the highest attainable condition and consistent with the demonstration provided in paragraph (b)(2) of this section. The State may adopt a subsequent WQS variance consistent with this section.
- (v) For a WQS variance with a term greater than five years, a specified frequency to reevaluate the highest attainable condition using all existing and readily available information and a provision specifying how the State intends to obtain public input on the reevaluation. Such reevaluations must occur no less frequently than every five years after EPA approval of the WQS variance and the results of such reevaluation must be submitted to EPA within 30 days of completion of the reevaluation.

- (vi) A provision that the WQS variance will no longer be the applicable water quality standard for purposes of the Act if the State does not conduct a reevaluation consistent with the frequency specified in the WQS variance or the results are not submitted to EPA as required by (b)(1)(v) of this section.
  - (2) The supporting documentation must include:
  - (i) Documentation demonstrating the need for a WQS variance.
- (A) For a WQS variance to a use specified in section 101(a)(2) of the Act or a sub-category of such a use, the State must demonstrate that attaining the designated use and criterion is not feasible throughout the term of the WQS variance because:
  - (1) One of the factors listed in §131.10(g) is met, or
- (2) Actions necessary to facilitate lake, wetland, or stream restoration through dam removal or other significant reconfiguration activities preclude attainment of the designated use and criterion while the actions are being implemented.
- (B) For a WQS variance to a non-101(a)(2) use, the State must submit documentation justifying how its consideration of the use and value of the water for those uses listed in §131.10(a) appropriately supports the WQS variance and term. A demonstration consistent with paragraph (b)(2)(i)(A) of this section may be used to satisfy this requirement.
- (ii) Documentation demonstrating that the term of the WQS variance is only as long as necessary to achieve the highest attainable condition. Such documentation must justify the term of the WQS variance by describing the pollutant control activities to achieve the highest attainable condition, including those activities identified through a Pollutant Minimization Program, which serve as milestones for the WQS variance.
- (iii) In addition to paragraphs (b)(2)(i) and (ii) of this section, for a WQS variance that applies to a water body or waterbody segment:
- (A) Identification and documentation of any cost-effective and reasonable best management practices for nonpoint source controls related to the pollutant(s) or water quality parameter(s) and water body or waterbody segment(s) specified in the WQS variance that could be implemented to make progress towards attaining the underlying designated use and criterion. A State must provide public notice and comment for any such documentation.
- (B) Any subsequent WQS variance for a water body or waterbody segment must include documentation of whether and to what extent best management practices for nonpoint source controls were implemented to address the pollutant(s) or water quality parameter(s) subject to the WQS variance and the water quality progress achieved.
- (c) Implementing WQS variances in NPDES permits. A WQS variance serves as the applicable water quality standard for implementing NPDES permitting requirements pursuant to §122.44(d) of this chapter for the term of the WQS variance. Any limitations and requirements necessary to implement the WQS variance shall be included as enforceable conditions of the NPDES permit for the permittee(s) subject to the WQS variance.

[80 FR 51048, Aug. 21, 2015]

Back to Top

## §131.15 Authorizing the use of schedules of compliance for water quality-based effluent limits in NPDES permits.

If a State intends to authorize the use of schedules of compliance for water quality-based effluent limits in NPDES permits, the State must adopt a permit compliance schedule authorizing provision. Such authorizing provision is a water quality standard subject to EPA review and approval under section 303 of the Act and must be consistent with sections 502(17) and 301(b)(1)(C) of the Act.

[80 FR 51049, Aug. 21, 2015]

♠ Back to Top

# Subpart C—Procedures for Review and Revision of Water Quality Standards

♣ Back to Top

## §131.20 State review and revision of water quality standards.

(a) State review. The State shall from time to time, but at least once every 3 years, hold public hearings for the purpose of reviewing applicable water quality standards adopted pursuant to §§131.10 through 131.15 and Federally promulgated water quality standards and, as appropriate, modifying and adopting standards. The State shall also re-examine any waterbody

segment with water quality standards that do not include the uses specified in section 101(a)(2) of the Act every 3 years to determine if any new information has become available. If such new information indicates that the uses specified in section 101(a)(2) of the Act are attainable, the State shall revise its standards accordingly. Procedures States establish for identifying and reviewing water bodies for review should be incorporated into their Continuing Planning Process. In addition, if a State does not adopt new or revised criteria for parameters for which EPA has published new or updated CWA section 304(a) criteria recommendations, then the State shall provide an explanation when it submits the results of its triennial review to the Regional Administrator consistent with CWA section 303(c)(1) and the requirements of paragraph (c) of this section.

- (b) *Public participation*. The State shall hold one or more public hearings for the purpose of reviewing water quality standards as well as when revising water quality standards, in accordance with provisions of State law and EPA's public participation regulation (40 CFR part 25). The proposed water quality standards revision and supporting analyses shall be made available to the public prior to the hearing.
- (c) Submittal to EPA. The State shall submit the results of the review, any supporting analysis for the use attainability analysis, the methodologies used for site-specific criteria development, any general policies applicable to water quality standards and any revisions of the standards to the Regional Administrator for review and approval, within 30 days of the final State action to adopt and certify the revised standard, or if no revisions are made as a result of the review, within 30 days of the completion of the review.

[48 FR 51405, Nov. 8, 1983, as amended at 80 FR 51049, Aug. 21, 2015]

#### ▲ Back to Top

## §131.21 EPA review and approval of water quality standards.

- (a) After the State submits its officially adopted revisions, the Regional Administrator shall either:
- (1) Notify the State within 60 days that the revisions are approved, or
- (2) Notify the State within 90 days that the revisions are disapproved. Such notification of disapproval shall specify the changes needed to assure compliance with the requirements of the Act and this regulation, and shall explain why the State standard is not in compliance with such requirements. Any new or revised State standard must be accompanied by some type of supporting analysis.
- (b) The Regional Administrator's approval or disapproval of a State water quality standard shall be based on the requirements of the Act as described in §§131.5 and 131.6, and, with respect to Great Lakes States or Tribes (as defined in 40 CFR 132.2), 40 CFR part 132.
- (c) How do I determine which water quality standards are applicable for purposes of the Act? You may determine which water quality standards are applicable water quality standards for purposes of the Act from the following table:

lf—	Then—	Unless or until—	In which case—
(1) A State or authorized Tribe has adopted a	the State or Tribe's water	EPA has promulgated a	the EPA-promulgated water quality
water quality standard that is effective under	quality standard is the applicable	more stringent water quality	standard is the applicable water quality
State or Tribal law and has been submitted to	water quality standard for purposes	standard for the State or Tribe	standard for purposes of the Act until EPA
EPA before May 30, 2000	of the Act	that is in effect	withdraws the Federal water quality standard.
(2) A State or authorized Tribe adopts a water	once EPA approves that water	EPA has promulgated a	the EPA promulgated water quality
quality standard that goes into effect under	quality standard, it becomes the	more stringent water quality	standard is the applicable water quality
State or Tribal law on or <i>after</i> May 30,	applicable water quality standard for	standard for the State or Tribe	standard for purposes of the Act until EPA
2000	purposes of the Act	that is in effect	withdraws the Federal water quality standard.

- (d) When do I use the applicable water quality standards identified in paragraph (c) above? Applicable water quality standards for purposes of the Act are the minimum standards which must be used when the CWA and regulations implementing the CWA refer to water quality standards, for example, in identifying impaired waters and calculating TMDLs under section 303(d), developing NPDES permit limitations under section 301(b)(1)(C), evaluating proposed discharges of dredged or fill material under section 404, and in issuing certifications under section 401 of the Act.
- (e) For how long does an applicable water quality standard for purposes of the Act remain the applicable water quality standard for purposes of the Act? A State or authorized Tribe's applicable water quality standard for purposes of the Act remains the applicable standard until EPA approves a change, deletion, or addition to that water quality standard, or until EPA promulgates a more stringent water quality standard.
- (f) How can I find out what the applicable standards are for purposes of the Act? In each Regional office, EPA maintains a docket system for the States and authorized Tribes in that Region, available to the public, identifying the applicable water quality standards for purposes of the Act.

[48 FR 51405, Nov. 8, 1983, as amended at 60 FR 15387, Mar. 23, 1995; 65 FR 24653, Apr. 27, 2000]

▲ Back to Top

## §131.22 EPA promulgation of water quality standards.

- (a) If the State does not adopt the changes specified by the Regional Administrator within 90 days after notification of the Regional Administrator's disapproval, the Administrator shall promptly propose and promulgate such standard.
- (b) The Administrator may also propose and promulgate a regulation, applicable to one or more navigable waters, setting forth a new or revised standard upon determining such a standard is necessary to meet the requirements of the Act. To constitute an Administrator's determination that a new or revised standard is necessary to meet the requirements of the Act, such determination must:
  - (1) Be signed by the Administrator or his or her duly authorized delegate, and
- (2) Contain a statement that the document constitutes an Administrator's determination under section 303(c)(4)(B) of the Act.
- (c) In promulgating water quality standards, the Administrator is subject to the same policies, procedures, analyses, and public participation requirements established for States in these regulations.

[48 FR 51405, Nov. 8, 1983, as amended at 80 FR 51049, Aug. 21, 2015

Back to Top

# **Subpart D—Federally Promulgated Water Quality Standards**

♠ Back to Top

#### §131.31 Arizona.

- (a) [Reserved]
- (b) The following waters have, in addition to the uses designated by the State, the designated use of fish consumption as defined in R18-11-101 (which is available from the Arizona Department of Environmental Quality, Water Quality Division, 3033 North Central Ave., Phoenix, AZ 85012):

#### COLORADO MAIN STEM RIVER BASIN:

Hualapai Wash

#### MIDDLE GILA RIVER BASIN:

Agua Fria River (Camelback Road to Avondale WWTP)

Galena Gulch

Gila River (Felix Road to the Salt River)

Queen Creek (Headwaters to the Superior WWTP)

Queen Creek (Below Potts Canyon)

#### SAN PEDRO RIVER BASIN:

Copper Creek

#### SANTA CRUZ RIVER BASIN:

Agua Caliente Wash

Nogales Wash

Sonoita Creek (Above the town of Patagonia)

Tanque Verde Creek

Tinaja Wash

Davidson Canyon

# **UPPER GILA RIVER BASIN**

Chase Creek

- (c) To implement the requirements of R18-11-108.A.5 with respect to effects of mercury on wildlife, EPA (or the State with the approval of EPA) shall implement a monitoring program to assess attainment of the water quality standard.
- (Sec. 303, Federal Water Pollution Control Act, as amended, 33 U.S.C. 1313, 86 Stat. 816 et seq., Pub. L. 92-500; Clean Water Act, Pub. L. 92-500, as amended; 33 U.S.C. 1251 et seq.)
- [41 FR 25000, June 22, 1976; 41 FR 48737, Nov. 5, 1976. Redesignated and amended at 42 FR 56740, Oct. 28, 1977. Further redesignated and amended at 48 FR 51408, Nov. 8, 1983; 61 FR 20693, May 7, 1996; 68 FR 62744, Nov. 6, 2003]
- ▲ Back to Top

## §131.32 [Reserved]

▲ Back to Top

#### §131.33 Idaho.

- (a) Temperature criteria for bull trout. (1) Except for those streams or portions of streams located in Indian country, or as may be modified by the Regional Administrator, EPA Region X, pursuant to paragraph (a)(3) of this section, a temperature criterion of 10 °C, expressed as an average of daily maximum temperatures over a seven-day period, applies to the waterbodies identified in paragraph (a)(2) of this section during the months of June, July, August and September.
  - (2) The following waters are protected for bull trout spawning and rearing:
  - (i) BOISE-MORE BASIN: Devils Creek, East Fork Sheep Creek, Sheep Creek.
  - (ii) BROWNLEE RESERVOIR BASIN: Crooked River, Indian Creek.
- (iii) CLEARWATER BASIN: Big Canyon Creek, Cougar Creek, Feather Creek, Laguna Creek, Lolo Creek, Orofino Creek, Talapus Creek, West Fork Potlatch River.
- (iv) COEUR D'ALENE LAKE BASIN: Cougar Creek, Fernan Creek, Kid Creek, Mica Creek, South Fork Mica Creek, Squaw Creek, Turner Creek.
- (v) HELLS CANYON BASIN: Dry Creek, East Fork Sheep Creek, Getta Creek, Granite Creek, Kurry Creek, Little Granite Creek, Sheep Creek.
- (vi) LEMHI BASIN: Adams Creek, Alder Creek, Basin Creek, Bear Valley Creek, Big Eightmile Creek, Big Springs Creek, Big Timber Creek, Bray Creek, Bull Creek, Cabin Creek, Canyon Creek, Carol Creek, Chamberlain Creek, Clear Creek, Climb Creek, Cooper Creek, Dairy Creek, Deer Creek, Deer Park Creek, East Fork Hayden Creek, Eighteenmile Creek, Falls Creek, Ferry Creek, Ford Creek, Geertson Creek, Grove Creek, Hawley Creek, Hayden Creek, Kadletz Creek, Kenney Creek, Kirtley Creek, Lake Creek, Lee Creek, Lemhi River (above Big Eightmile Creek), Little Eightmile Creek, Little Mill Creek, Little Timber Creek, Middle Fork Little Timber Creek, Mill Creek, Mill Creek, Mogg Creek, North Fork Kirtley Creek, North Fork Little Timber Creek, Paradise Creek, Patterson Creek, Payne Creek, Poison Creek, Prospect Creek, Rocky Creek, Short Creek, Squaw Creek, Squirrel Creek, Tobias Creek, Trail Creek, West Fork Hayden Creek, Wright Creek.
- (vii) LITTLE LOST BASIN: Badger Creek, Barney Creek, Bear Canyon, Bear Creek, Bell Mountain Creek, Big Creek, Bird Canyon, Black Creek, Buck Canyon, Bull Creek, Cedar Run Creek, Chicken Creek, Coal Creek, Corral Creek, Deep Creek, Dry Creek, Dry Creek Canal, Firbox Creek, Garfield Creek, Hawley Canyon, Hawley Creek, Horse Creek, Horse Lake Creek, Iron Creek, Jackson Creek, Little Lost River (above Badger Creek), Mahogany Creek, Main Fork Sawmill Creek, Massacre Creek, Meadow Creek, Mill Creek, Moffett Creek, Moonshine Creek, Quigley Creek, Red Rock Creek, Sands Creek, Sawmill Creek, Slide Creek, Smithie Fork, Squaw Creek, Summerhouse Canyon, Summit Creek, Timber Creek, Warm Creek, Wet Creek, Williams Creek.
- (viii) LITTLE SALMON BASIN: Bascum Canyon, Boulder Creek, Brown Creek, Campbell Ditch, Castle Creek, Copper Creek, Granite Fork Lake Fork Rapid River, Hard Creek, Hazard Creek, Lake Fork Rapid River, Little Salmon River (above Hazard Creek), Paradise Creek, Pony Creek, Rapid River, Squirrel Creek, Trail Creek, West Fork Rapid River.
- (ix) LOCHSA BASIN: Apgar Creek, Badger Creek, Bald Mountain Creek, Beaver Creek, Big Flat Creek, Big Stew Creek, Boulder Creek, Brushy Fork, Cabin Creek, Castle Creek, Chain Creek, Cliff Creek, Coolwater Creek, Cooperation Creek, Crab Creek, Crooked Fork Lochsa River, Dan Creek, Deadman Creek, Doe Creek, Dutch Creek, Eagle Creek, East Fork Papoose Creek, East Fork Split Creek, East Fork Squaw Creek, Eel Creek, Fern Creek, Fire Creek, Fish Creek, Fish Lake Creek, Fox Creek, Gass Creek, Gold Creek, Ham Creek, Handy Creek, Hard Creek, Haskell Creek, Heather Creek, Hellgate Creek, Holly Creek, Hopeful Creek, Hungery Creek, Indian Grave Creek, Jay Creek, Kerr Creek, Kube Creek, Lochsa River, Lone Knob

Creek, Lottie Creek, Macaroni Creek, Maud Creek, Middle Fork Clearwater River, No-see-um Creek, North Fork Spruce Creek, North Fork Storm Creek, Nut Creek, Otter Slide Creek, Pack Creek, Papoose Creek, Parachute Creek, Pass Creek, Pedro Creek, Pell Creek, Pete King Creek, Placer Creek, Polar Creek, Postoffice Creek, Queen Creek, Robin Creek, Rock Creek, Rye Patch Creek, Sardine Creek, Shoot Creek, Shoot Creek, Skookum Creek, Snowshoe Creek, South Fork Spruce Creek, South Fork Storm Creek, Split Creek, Spring Creek, Spruce Creek, Squaw Creek, Storm Creek, Tick Creek, Tomcat Creek, Tumble Creek, Twin Creek, Wag Creek, Walde Creek, Walton Creek, Warm Springs Creek, Weir Creek, Wendover Creek, West Fork Boulder Creek, West Fork Papoose Creek, West Fork Squaw Creek, West Fork Wendover Creek, White Sands Creek, Willow Creek.

- (x) LOWER CLARK FORK BASIN: Cascade Creek, East Fork, East Fork Creek, East Forkast Fork Creek, Gold Creek, Johnson Creek, Lightning Creek, Mosquito Creek, Porcupine Creek, Rattle Creek, Spring Creek, Twin Creek, Wellington Creek.
- (xi) LOWER KOOTENAI BASIN: Ball Creek, Boundary Creek, Brush Creek, Cabin Creek, Caribou Creek, Cascade Creek, Cooks Creek, Cow Creek, Curley Creek, Deep Creek, Grass Creek, Jim Creek, Lime Creek, Long Canyon Creek, Mack Creek, Mission Creek, Myrtle Creek, Peak Creek, Snow Creek, Trout Creek.
- (xii) LOWER MIDDLE FORK SALMON BASIN: Acorn Creek, Alpine Creek, Anvil Creek, Arrastra Creek, Bar Creek, Beagle Creek, Beaver Creek, Belvidere Creek, Big Creek, Birdseye Creek, Boulder Creek, Brush Creek, Buck Creek, Bull Creek, Cabin Creek, Camas Creek, Canyon Creek, Castle Creek, Clark Creek, Coin Creek, Corner Creek, Coxey Creek, Crooked Creek, Doe Creek, Duck Creek, East Fork Holy Terror Creek, Fawn Creek, Flume Creek, Fly Creek, Forge Creek, Furnace Creek, Garden Creek, Government Creek, Grouse Creek, Hammer Creek, Hand Creek, Holy Terror Creek, J Fell Creek, Jacobs Ladder Creek, Lewis Creek, Liberty Creek, Lick Creek, Lime Creek, Little Jacket Creek, Little Marble Creek, Little White Goat Creek, Little Woodtick Creek, Logan Creek, Lookout Creek, Loon Creek, Martindale Creek, Meadow Creek, Middle Fork Smith Creek, Monumental Creek, Moore Creek, Mulligan Creek, North Fork Smith Creek, Norton Creek, Placer Creek, Pole Creek, Rams Creek, Range Creek, Routson Creek, Rush Creek, Sawlog Creek, Sheep Creek, Sheldon Creek, Shellrock Creek, Ship Island Creek, Shovel Creek, Silver Creek, Smith Creek, Snowslide Creek, Soldier Creek, South Fork Camas Creek, South Fork Chamberlain Creek, Spletts Creek, Telephone Creek, Trail Creek, Two Point Creek, West Fork Beaver Creek, West Fork Camas Creek, West Fork Rush Creek, White Goat Creek, Wilson Creek.
- (xiii) LOWER NORTH FORK CLEARWATER BASIN: Adair Creek, Badger Creek, Bathtub Creek, Beaver Creek, Black Creek, Brush Creek, Butte Creek, Canyon Creek, Caribou Creek, Crimper Creek, Dip Creek, Dog Creek, Elmer Creek, Falls Creek, Fern Creek, Goat Creek, Isabella Creek, John Creek, Jug Creek, Jungle Creek, Lightning Creek, Little Lost Lake Creek, Little North Fork Clearwater River, Lost Lake Creek, Lund Creek, Montana Creek, Mowitch Creek, Papoose Creek, Pitchfork Creek, Rocky Run, Rutledge Creek, Spotted Louis Creek, Triple Creek, Twin Creek, West Fork Montana Creek, Willow Creek.
- (xiv) LOWER SALMON BASIN: Bear Gulch, Berg Creek, East Fork John Day Creek, Elkhorn Creek, Fiddle Creek, French Creek, Hurley Creek, John Day Creek, Kelly Creek, Klip Creek, Lake Creek, Little Slate Creek, Little Van Buren Creek, No Business Creek, North Creek, North Fork Slate Creek, North Fork White Bird Creek, Partridge Creek, Slate Creek, Slide Creek, South Fork John Day Creek, South Fork White Bird Creek, Warm Springs Creek.
- (xv) LOWER SELWAY BASIN: Anderson Creek, Bailey Creek, Browns Spring Creek, Buck Lake Creek, Butte Creek, Butter Creek, Cabin Creek, Cedar Creek, Chain Creek, Chute Creek, Dent Creek, Disgrace Creek, Double Creek, East Fork Meadow Creek, East Fork Moose Creek, Elbow Creek, Fivemile Creek, Fourmile Creek, Gate Creek, Gedney Creek, Goddard Creek, Horse Creek, Indian Hill Creek, Little Boulder Creek, Little Schwar Creek, Matteson Creek, Meadow Creek, Monument Creek, Moose Creek, Moss Creek, Newsome Creek, North Fork Moose Creek, Rhoda Creek, Saddle Creek, Schwar Creek, Shake Creek, Spook Creek, Spur Creek, Tamarack Creek, West Fork Anderson Creek, West Fork Gedney Creek, West Moose Creek, Wounded Doe Creek.
- (xvi) MIDDLE FORK CLEARWATER BASIN: Baldy Creek, Big Cedar Creek, Browns Spring Creek, Clear Creek, Middle Fork Clear Creek, Pine Knob Creek, South Fork Clear Creek.
- (xvii) MIDDLE FORK PAYETTE BASIN: Bull Creek, Middle Fork Payette River (above Fool Creek), Oxtail Creek, Silver Creek, Sixteen-to-one Creek.
- (xviii) MIDDLE SALMON-CHAMBERLAIN BASIN: Arrow Creek, Bargamin Creek, Bat Creek, Bay Creek, Bear Creek, Bend Creek, Big Elkhorn Creek, Big Harrington Creek, Big Mallard Creek, Big Squaw Creek, Bleak Creek, Bronco Creek, Broomtail Creek, Brown Creek, Cayuse Creek, Center Creek, Chamberlain Creek, Cliff Creek, Colt Creek, Corn Creek, Crooked Creek, Deer Creek, Dennis Creek, Disappointment Creek, Dismal Creek, Dog Creek, East Fork Fall Creek, East Fork Horse Creek, East Fork Noble Creek, Filly Creek, Fish Creek, Flossie Creek, Game Creek, Gap Creek, Ginger Creek, Green Creek, Grouse Creek, Guard Creek, Hamilton Creek, Horse Creek, Hot Springs Creek, Hotzel Creek, Hungry Creek, Iodine Creek, Jack Creek, Jersey Creek, Kitchen Creek, Lake Creek, Little Horse Creek, Little Lodgepole Creek, Mullard Creek, Lodgepole Creek, Mullard Creek, Mustang

Creek, No Name Creek, Owl Creek, Poet Creek, Pole Creek, Porcupine Creek, Prospector Creek, Pup Creek, Queen Creek, Rainey Creek, Ranch Creek, Rattlesnake Creek, Red Top Creek, Reynolds Creek, Rim Creek, Ring Creek, Rock Creek, Root Creek, Runaway Creek, Sabe Creek, Saddle Creek, Salt Creek, Schissler Creek, Sheep Creek, Short Creek, Shovel Creek, Skull Creek, Slaughter Creek, Slide Creek, South Fork Cottonwood Creek, South Fork Chamberlain Creek, South Fork Kitchen Creek, South Fork Salmon River, Spread Creek, Spring Creek, Starvation Creek, Steamboat Creek, Steep Creek, Stud Creek, Warren Creek, Webfoot Creek, West Fork Chamberlain Creek, West Fork Rattlesnake Creek, West Horse Creek, Whimstick Creek, Wind River, Woods Fork Horse Creek.

(xix) MIDDLE SALMON-PANTHER BASIN: Allen Creek, Arnett Creek, Beaver Creek, Big Deer Creek, Blackbird Creek, Boulder Creek, Cabin Creek, Camp Creek, Carmen Creek, Clear Creek, Colson Creek, Copper Creek, Corral Creek, Cougar Creek, Cow Creek, Deadhorse Creek, Deep Creek, East Boulder Creek, Elkhorn Creek, Fawn Creek, Fourth Of July Creek, Freeman Creek, Homet Creek, Hughes Creek, Hull Creek, Indian Creek, Iron Creek, Jackass Creek, Jefferson Creek, Jesse Creek, Lake Creek, Little Deep Creek, Little Hat Creek, Little Sheep Creek, McConn Creek, McKim Creek, Mink Creek, Moccasin Creek, Moose Creek, Moyer Creek, Musgrove Creek, Napias Creek, North Fork Hughes Creek, North Fork Iron Creek, North Fork Salmon River, North Fork Williams Creek, Opal Creek, Otter Creek, Owl Creek, Panther Creek, Park Creek, Phelan Creek, Pine Creek, Pony Creek, Pruvan Creek, Rabbit Creek, Rancherio Creek, Rapps Creek, Salt Creek, Salzer Creek, Saw Pit Creek, Sharkey Creek, Sheep Creek, South Fork Cabin Creek, South Fork Iron Creek, South Fork Moyer Creek, South Fork Phelan Creek, South Fork Sheep Creek, South Fork Williams Creek, Spring Creek, Squaw Creek, Trail Creek, Twelvemile Creek, Twin Creek, Weasel Creek, West Fork Blackbird Creek, West Fork Iron Creek, Williams Creek, Woodtick Creek.

(xx) MOYIE BASIN: Brass Creek, Bussard Creek, Copper Creek, Deer Creek, Faro Creek, Keno Creek, Kreist Creek, Line Creek, McDougal Creek, Mill Creek, Moyie River (above Skin Creek), Placer Creek, Rutledge Creek, Skin Creek, Spruce Creek, West Branch Deer Creek.

(xxi) NORTH AND MIDDLE FORK BOISE BASIN: Abby Creek, Arrastra Creek, Bald Mountain Creek, Ballentyne Creek, Banner Creek, Bayhouse Creek, Bear Creek, Bear River, Big Gulch, Big Silver Creek, Billy Creek, Blackwarrior Creek, Bow Creek, Browns Creek, Cabin Creek, Cahhah Creek, Camp Gulch, China Fork, Coma Creek, Corbus Creek, Cow Creek, Crooked River, Cub Creek, Decker Creek, Dutch Creek, Dutch Frank Creek, East Fork Roaring River, East Fork Swanholm Creek, East Fork Yuba River, Flint Creek, Flytrip Creek, Gotch Creek, Graham Creek, Granite Creek, Greylock Creek, Grouse Creek, Hot Creek, Hungarian Creek, Joe Daley Creek, Johnson Creek, King Creek, Kayne Creek, Leggit Creek, Lightning Creek, Little Queens River, Little Silver Creek, Louise Creek, Lynx Creek, Mattingly Creek, McKay Creek, McLeod Creek, McPhearson Creek, Middle Fork Boise River (above Roaring River), Middle Fork Corbus Creek, Middle Fork Roaring River, Mill Creek, Misfire Creek, Montezuma Creek, North Fork Boise River (above Bear River), Phifer Creek, Pikes Fork, Quartz Gulch, Queens River, Rabbit Creek, Right Creek, Roaring River, Robin Creek, Snow Creek, Rock Creek, Rockey Creek, Sawmill Creek, Scenic Creek, Scotch Creek, Scott Creek, Shorip Creek, Smith Creek, Snow Creek, Snowslide Creek, South Fork Corbus Creek, South Fork Cub Creek, Spout Creek, Steamboat Creek, West Warrior Creek, Willow Creek, Yuba River.

(xxii) NORTH FORK PAYETTE BASIN: Gold Fork River, North Fork Gold Fork River, Pearsol Creek.

(xxiii) AHSIMEROI BASIN: Baby Creek, Bear Creek, Big Creek, Big Gulch, Burnt Creek, Christian Gulch, Dead Cat Canyon, Ditch Creek, Donkey Creek, Doublespring Creek, Dry Canyon, Dry Gulch, East Fork Burnt Creek, East Fork Morgan Creek, East Fork Pahsimeroi River, East Fork Patterson Creek, Elkhorn Creek, Falls Creek, Goldberg Creek, Hillside Creek, Inyo Creek, Long Creek, Mahogany Creek, Mill Creek, Morgan Creek, Morse Creek, Mulkey Gulch, North Fork Big Creek, North Fork Morgan Creek, Pahsimeroi River (above Big Creek), Patterson Creek, Rock Spring Canyon, Short Creek, Snowslide Creek, South Fork Big Creek, Spring Gulch, Squaw Creek, Stinking Creek, Tater Creek, West Fork Burnt Creek, West Fork North Fork Big Creek.

(xxiv) PAYETTE BASIN: Squaw Creek, Third Fork Squaw Creek.

(xxv) PEND OREILLE LAKE BASIN: Branch North Gold Creek, Cheer Creek, Chloride Gulch, Dry Gulch, Dyree Creek, Flume Creek, Gold Creek, Granite Creek, Grouse Creek, Kick Bush Gulch, North Fork Grouse Creek, North Gold Creek, Plank Creek, Rapid Lightning Creek, South Fork Grouse Creek, Strong Creek, Thor Creek, Trestle Creek, West Branch Pack River, West Gold Creek, Wylie Creek, Zuni Creek.

(xxvi) PRIEST BASIN: Abandon Creek, Athol Creek, Bath Creek, Bear Creek, Bench Creek, Blacktail Creek, Bog Creek, Boulder Creek, Bugle Creek, Canyon Creek, Caribou Creek, Cedar Creek, Chicopee Creek, Deadman Creek, East Fork Trapper Creek, East River, Fedar Creek, Floss Creek, Gold Creek, Granite Creek, Horton Creek, Hughes Fork, Indian Creek, Jackson Creek, Jost Creek, Kalispell Creek, Kent Creek, Keokee Creek, Lime Creek, Lion Creek, Lost Creek, Lucky Creek, Malcom Creek, Middle Fork East River, Muskegon Creek, North Fork Granite Creek, North Fork Indian Creek, Packer Creek, Rock Creek, Ruby Creek, South Fork Granite Creek, South Fork Lion Creek, Squaw Creek, Tango Creek, Tarlac Creek, The Thorofare, Trapper Creek, Two Mouth Creek, Uleda Creek, Priest R. (above Priest Lake), Zero Creek.

(xxvii) SOUTH FORK BOISE BASIN: Badger Creek, Bear Creek, Bear Gulch, Big Smoky Creek, Big Water Gulch, Boardman Creek, Burnt Log Creek, Cayuse Creek, Corral Creek, Cow Creek, Edna Creek, Elk Creek, Emma Creek, Feather River, Fern Gulch, Grape Creek, Gunsight Creek, Haypress Creek, Heather Creek, Helen Creek, Johnson Creek, Lincoln Creek, Little Cayuse Creek, Little Rattlesnake Creek, Little Skeleton Creek, Little Smoky Creek, Loggy Creek, Mule Creek, North Fork Ross Fork, Pinto Creek, Rattlesnake Creek, Ross Fork, Russel Gulch, Salt Creek, Shake Creek, Skeleton Creek, Slater Creek, Smokey Dome Canyon, South Fork Ross Fork, Three Forks Creek, Tipton Creek, Vienna Creek, Weeks Gulch, West Fork Big Smoky Creek, West Fork Salt Creek, West Fork Skeleton Creek, Willow Creek.

(xxviii) SOUTH FORK CLEARWATER BASIN: American River, Baker Gulch, Baldy Creek, Bear Creek, Beaver Creek, Big Canyon Creek, Big Elk Creek, Blanco Creek, Boundary Creek, Box Sing Creek, Boyer Creek, Cartwright Creek, Cole Creek, Crooked River, Dawson Creek, Deer Creek, Ditch Creek, East Fork American River, East Fork Crooked River, Elk Creek, Fivemile Creek, Fourmile Creek, Fox Creek, French Gulch, Galena Creek, Gospel Creek, Hagen Creek, Hays Creek, Johns Creek, Jungle Creek, Kirks Fork American River, Little Elk Creek, Little Moose Creek, Little Siegel Creek, Loon Creek, Mackey Creek, Meadow Creek, Melton Creek, Middle Fork Red River, Mill Creek, Monroe Creek, Moores Creek, Moores Lake Creek, Moose Butte Creek, Morgan Creek, Mule Creek, Newsome Creek, Nuggett Creek, Otterson Creek, Pat Brennan Creek, Pilot Creek, Quartz Creek, Queen Creek, Rabbit Creek, Rainbow Gulch, Red River, Relief Creek, Ryan Creek, Sally Ann Creek, Sawmill Creek, Schooner Creek, Schwartz Creek, Sharmon Creek, Siegel Creek, Silver Creek, Sixmile Creek, Sixtysix Creek, Snoose Creek, Sourdough Creek, South Fork Red River, Square Mountain Creek, Swale Creek, Swift Creek, Taylor Creek, Tenmile Creek, Trail Creek, Trapper Creek, Trout Creek, Twentymile Creek, Twin Lakes Creek, Umatilla Creek, West Fork Big Elk Creek, West Fork Crooked River, West Fork Gospel Creek, West Fork Newsome Creek, West Fork Red River, West Fork Twentymile Creek, Whitskey Creek, Whitskey

(xxix) SOUTH FORK PAYETTE BASIN: Archie Creek, Ash Creek, Baron Creek, Basin Creek, Bear Creek, Beaver Creek, Big Spruce Creek, Bitter Creek, Blacks Creek, Blue Jay Creek, Burn Creek, Bush Creek, Camp Creek, Canyon Creek, Casner Creek, Cat Creek, Chapman Creek, Charters Creek, Clear Creek, Coski Creek, Cup Creek, Dead Man Creek, Deadwood River, Deer Creek, East Fork Deadwood Creek, East Fork Warm Springs Creek, Eby Creek, Elkhorn Creek, Emma Creek, Fall Creek, Fence Creek, Fern Creek, Fivemile Creek, Fox Creek, Garney Creek, Gates Creek, Goat Creek, Grandjem Creek, Grouse Creek, Habit Creek, Helende Creek, Horse Creek, Huckleberry Creek, Jackson Creek, Kettle Creek, Kirkham Creek, Lake Creek, Lick Creek, Little Tenmile Creek, Logging Gulch, Long Creek, MacDonald Creek, Meadow Creek, Middle Fork Warm Springs Creek, Miller Creek, Monument Creek, Moulding Creek, Ninemile Creek, No Man Creek, No Name Creek, North Fork Baron Creek, North Fork Canyon Creek, North Fork Deer Creek, North Fork Whitehawk Creek, O'Keefe Creek, Packsaddle Creek, Park Creek, Pass Creek, Pinchot Creek, Pinc Creek, Pitchfork Creek, Pole Creek, Richards Creek, Road Fork Rock Creek, Rock Creek, Rough Creek, Scott Creek, Silver Creek, Sixmile Creek, Smith Creek, Smokey Creek, South Fork Beaver Creek, South Fork Canyon Creek, South Fork Clear Creek, Sixmile Creek, Topnotch Creek, Trail Creek, Wapiti Creek, Warm Spring Creek, Warm Spring Creek, Whangdoodle Creek, Whitehawk Creek, Wild Buck Creek, Wills Gulch, Wilson Creek, Wolf Creek, Wolf Creek.

(xxx) SOUTH FORK SALMON BASIN: Alez Creek, Back Creek, Bear Creek, Bishop Creek, Blackmare Creek, Blue Lake Creek, Buck Creek, Buckhorn Bar Creek, Buckhorn Creek, Burgdorf Creek, Burntlog Creek, Cabin Creek, Calf Creek, Camp Creek, Cane Creek, Caton Creek, Cinnabar Creek, Cliff Creek, Cly Creek, Cougar Creek, Cow Creek, Cox Creek, Curtis Creek, Deep Creek, Dollar Creek, Dutch Creek, East Fork South Fork Salmon River, East Fork Zena Creek, Elk Creek, Enos Creek, Falls Creek, Fernan Creek, Fiddle Creek, Fitsum Creek, Flat Creek, Fourmile Creek, Goat Creek, Grimmet Creek, Grouse Creek, Halfway Creek, Hanson Creek, Hays Creek, Holdover Creek, Hum Creek, Indian Creek, Jeanette Creek, Johnson Creek, Josephine Creek, Jungle Creek, Knee Creek, Krassel Creek, Lake Creek, Landmark Creek, Lick Creek, Little Buckhorn Creek, Little Indian Creek, Lodgepole Creek, Loon Creek, Maverick Creek, Meadow Creek, Middle Fork Elk Creek, Missouri Creek, Moose Creek, Mormon Creek, Nasty Creek, Nethker Creek, Nick Creek, No Mans Creek, North Fork Bear Creek, North Fork Buckhorn Creek, North Fork Camp Creek, North Fork Dollar Creek, North Fork Fitsum Creek, North Fork Lake Fork, North Fork Lick Creek, North Fork Riordan Creek, North Fork Six-bit Creek, Oompaul Creek, Paradise Creek, Park Creek, Peanut Creek, Pepper Creek, Phoebe Creek, Piah Creek, Pid Creek, Pilot Creek, Pony Creek, Porcupine Creek, Porphyry Creek, Prince Creek, Profile Creek, Quartz Creek, Reeves Creek, Rice Creek, Riordan Creek, Roaring Creek, Ruby Creek, Rustican Creek, Ryan Creek, Salt Creek, Sand Creek, Secesh River, Sheep Creek, Silver Creek, Sister Creek, Six-Bit Creek, South Fork Bear Creek, South Fork Blackmare Creek, South Fork Buckhorn Creek, South Fork Cougar Creek, South Fork Elk Creek, South Fork Fitsum Creek, South Fork Fourmile Creek, South Fork Salmon River, South Fork Threemile Creek, Split Creek, Steep Creek, Sugar Creek, Summit Creek, Tamarack Creek, Teepee Creek, Threemile Creek, Trail Creek, Trapper Creek, Trout Creek, Tsum Creek, Two-bit Creek, Tyndall Creek, Vein Creek, Victor Creek, Wardenhoff Creek, Warm Lake Creek, Warm Spring Creek, West Fork Buckhorn Creek, West Fork Elk Creek, West Fork Enos Creek, West Fork Zena Creek, Whangdoodle Creek, Willow Basket Creek, Willow Creek, Zena Creek.

(xxxi) ST. JOE R. BASIN: Bad Bear Creek, Bean Creek, Bear Creek, Beaver Creek, Bedrock Creek, Berge Creek, Bird Creek, Blue Grouse Creek, Boulder Creek, Broadaxe Creek, Bruin Creek, California Creek, Cherry Creek, Clear Creek, Color Creek, Copper Creek, Dolly Creek, Dump Creek, Eagle Creek, East Fork Bluff Creek, East Fork Gold Creek, Emerald Creek, Fishhook Creek, Float Creek, Fly Creek, Fuzzy Creek, Gold Creek, Heller Creek, Indian Creek, Kelley Creek, Malin Creek,

Marble Creek, Medicine Creek, Mica Creek, Mill Creek, Mosquito Creek, North Fork Bean Creek, North Fork Saint Joe River, North Fork Simmons Creek, Nugget Creek, Packsaddle Creek, Periwinkle Creek, Prospector Creek, Quartz Creek, Red Cross Creek, Red Ives Creek, Ruby Creek, Saint Joe River (above Siwash Creek), Setzer Creek, Sherlock Creek, Simmons Creek, Siwash Creek, Skookum Creek, Thomas Creek, Thorn Creek, Three Lakes Creek, Timber Creek, Tinear Creek, Trout Creek, Tumbledown Creek, Wahoo Creek, Washout Creek, Wilson Creek, Yankee Bar Creek.

(xxxii) UPPER COEUR D'ALENE BASIN: Brown Creek, Falls Creek, Graham Creek.

(xxxiii) UPPER KOOTENAI BASIN: Halverson Cr, North Callahan Creek, South Callahan Creek, West Fork Keeler Creek

(xxxiv) UPPER MIDDLE FORK SALMON BASIN: Asher Creek, Automatic Creek, Ayers Creek, Baldwin Creek, Banner Creek, Bear Creek, Bear Valley Creek, Bearskin Creek, Beaver Creek, Bernard Creek, Big Chief Creek, Big Cottonwood Creek, Birch Creek, Blue Lake Creek, Blue Moon Creek, Boundary Creek, Bridge Creek, Browning Creek, Buck Creek, Burn Creek, Cabin Creek, Cache Creek, Camp Creek, Canyon Creek, Cap Creek, Cape Horn Creek, Casner Creek, Castle Fork, Casto Creek, Cat Creek, Chokebore Creek, Chuck Creek, Cliff Creek, Cold Creek, Collie Creek, Colt Creek, Cook Creek, Corley Creek, Cornish Creek, Cottonwood Creek, Cougar Creek, Crystal Creek, Cub Creek, Cultus Creek, Dagger Creek, Deer Creek, Deer Horn Creek, Doe Creek, Dry Creek, Duffield Creek, Dynamite Creek, Eagle Creek, East Fork Elk Creek, East Fork Indian Creek, East Fork Mayfield Creek, Elk Creek, Elkhorn Creek, Endoah Creek, Fall Creek, Fawn Creek, Feltham Creek, Fir Creek, Flat Creek, Float Creek, Foresight Creek, Forty-five Creek, Forty-four Creek, Fox Creek, Full Moon Creek, Fuse Creek, Grays Creek, Grenade Creek, Grouse Creek, Gun Creek, Half Moon Creek, Hogback Creek, Honeymoon Creek, Hot Creek, Ibex Creek, Indian Creek, Jose Creek, Kelly Creek, Kerr Creek, Knapp Creek, Kwiskwis Creek, Lime Creek, Lincoln Creek, Little Beaver Creek, Little Cottonwood Creek, Little East Fork Elk Creek, Little Indian Creek, Little Loon Creek, Little Pistol Creek, Lola Creek, Loon Creek, Lucinda Creek, Lucky Creek, Luger Creek, Mace Creek, Mack Creek, Marble Creek, Marlin Creek, Marsh Creek, Mayfield Creek, McHoney Creek, McKee Creek, Merino Creek, Middle Fork Elkhorn Creek, Middle Fork Indian Creek, Middle Fork Salmon River (above Soldier Creek), Mine Creek, Mink Creek, Moonshine Creek, Mowitch Creek, Muskeg Creek, Mystery Creek, Nelson Creek, New Creek, No Name Creek, North Fork Elk Creek, North Fork Elkhorn Creek, North Fork Sheep Creek, North Fork Sulphur Creek, Papoose Creek, Parker Creek, Patrol Creek, Phillips Creek, Pierson Creek, Pinyon Creek, Pioneer Creek, Pistol Creek, Placer Creek, Poker Creek, Pole Creek, Popgun Creek, Porter Creek, Prospect Creek, Rabbit Creek, Rams Horn Creek, Range Creek, Rapid River, Rat Creek, Remington Creek, Rock Creek, Rush Creek, Sack Creek, Safety Creek, Salt Creek, Savage Creek, Scratch Creek, Seafoam Creek, Shady Creek, Shake Creek, Sheep Creek, Sheep Trail Creek, Shell Creek, Shrapnel Creek, Siah Creek, Silver Creek, Slide Creek, Snowshoe Creek, Soldier Creek, South Fork Cottonwood Creek, South Fork Sheep Creek, Spike Creek, Springfield Creek, Squaw Creek, Sulphur Creek, Sunnyside Creek, Swamp Creek, Tennessee Creek, Thatcher Creek, Thicket Creek, Thirty-two Creek, Tomahawk Creek, Trail Creek, Trapper Creek, Trigger Creek, Twenty-two Creek, Vader Creek, Vanity Creek, Velvet Creek, Walker Creek, Wampum Creek, Warm Spring Creek, West Fork Elk Creek, West Fork Little Loon Creek, West Fork Mayfield Creek, White Creek, Wickiup Creek, Winchester Creek, Winnemucca Creek, Wyoming Creek.

(xxxv) UPPER NORTH FORK CLEARWATER BASIN: Adams Creek, Avalanche Creek, Bacon Creek, Ball Creek, Barn Creek, Barnard Creek, Barren Creek, Bear Creek, Beaver Dam Creek, Bedrock Creek, Bill Creek, Bostonian Creek, Boundary Creek, Burn Creek, Butter Creek, Camp George Creek, Canyon Creek, Cayuse Creek, Chamberlain Creek, Clayton Creek, Cliff Creek, Coffee Creek, Cold Springs Creek, Collins Creek, Colt Creek, Cool Creek, Copper Creek, Corral Creek, Cougar Creek, Craig Creek, Crater Creek, Cub Creek, Davis Creek, Deadwood Creek, Deer Creek, Dill Creek, Drift Creek, Elizabeth Creek, Fall Creek, Fire Creek, Fix Creek, Flame Creek, Fly Creek, Fourth of July Creek, Fro Creek, Frog Creek, Frost Creek, Gilfillian Creek, Goose Creek, Grass Creek, Gravey Creek, Grizzly Creek, Hanson Creek, Heather Creek, Henry Creek, Hidden Creek, Howard Creek, Independence Creek, Jam Creek, Japanese Creek, Johnagan Creek, Johnny Creek, Junction Creek, Kelly Creek, Kid Lake Creek, Kodiak Creek, Lake Creek, Laundry Creek, Lightning Creek, Little Moose Creek, Little Weitas Creek, Liz Creek, Long Creek, Marten Creek, Meadow Creek, Middle Creek, Middle North Fork Kelly Creek, Mill Creek, Mire Creek, Monroe Creek, Moose Creek, Negro Creek, Nettle Creek, Niagra Gulch, North Fork Clearwater River (Fourth of July Creek), Nub Creek, Osier Creek, Petry Creek, Pete Ott Creek, Placer Creek, Polar Creek, Post Creek, Potato Creek, Quartz Creek, Rapid Creek, Rawhide Creek, Roaring Creek, Rock Creek, Rocky Ridge Creek, Ruby Creek, Saddle Creek, Salix Creek, Scurry Creek, Seat Creek, Short Creek, Short Creek, Siam Creek, Silver Creek, Skull Creek, Slide Creek, Smith Creek, Snow Creek, South Fork Kelly Creek, Spud Creek, Stolen Creek, Stove Creek, Sugar Creek, Swamp Creek, Tinear Creek, Tinkle Creek, Toboggan Creek, Trail Creek, Vanderbilt Gulch, Wall Creek, Weitas Creek, Williams Creek, Windy Creek, Wolf Creek, Young Creek.

(xxxvi) UPPER SALMON BASIN: Alder Creek, Alpine Creek, Alta Creek, Alturas Lake Creek, Anderson Creek, Aspen Creek, Basin Creek, Bayhorse Creek, Bear Creek, Beaver Creek, Big Boulder Creek, Block Creek, Blowfly Creek, Blue Creek, Boundary Creek, Bowery Creek, Broken Ridge Creek, Bruno Creek, Buckskin Creek, Cabin Creek, Camp Creek, Cash Creek, Challis Creek, Chamberlain Creek, Champion Creek, Cherry Creek, Cinnabar Creek, Cleveland Creek, Coal Creek, Crooked Creek, Darling Creek, Deadwood Creek, Decker Creek, Deer Creek, Dry Creek, Duffy Creek, East Basin Creek, East Fork Salmon River, East Fork Valley Creek, East Pass Creek, Eddy Creek, Eightmile Creek, Elevenmile Creek, Elk Creek, Ellis Creek, Estes Creek, First Creek, Fisher Creek, Fishhook Creek, Fivemile Creek, Fourth of July Creek, Frenchman Creek, Garden Creek, Germania Creek, Goat Creek, Gold Creek, Gooseberry Creek, Greylock Creek, Hay Creek, Hell Roaring Creek,

Herd Creek, Huckleberry Creek, Iron Creek, Job Creek, Jordan Creek, Juliette Creek, Kelly Creek, Kinnikinic Creek, Lick Creek, Lightning Creek, Little Basin Creek, Little Beaver Creek, Little Boulder Creek, Little West Fork Morgan Creek, Lodgepole Creek, Lone Pine Creek, Lost Creek, MacRae Creek, Martin Creek, McKay Creek, Meadow Creek, Mill Creek, Morgan Creek, Muley Creek, Ninemile Creek, Noho Creek, Pack Creek, Park Creek, Pat Hughes Creek, Pig Creek, Pole Creek, Pork Creek, Prospect Creek, Rainbow Creek, Redfish Lake Creek, Road Creek, Rough Creek, Sage Creek, Sagebrush Creek, Salmon River (Redfish Lake Creek), Sawmill Creek, Second Creek, Sevenmile Creek, Sheep Creek, Short Creek, Sixmile Creek, Slate Creek, Smiley Creek, South Fork East Fork Salmon River, Squaw Creek, Stanley Creek, Stephens Creek, Summit Creek, Sunday Creek, Swimm Creek, Taylor Creek, Tenmile Creek, Tennel Creek, Thompson Creek, Three Cabins Creek, Trail Creek, Trap Creek, Trealor Creek, Twelvemile Creek, Twin Creek, Valley Creek, Van Horn Creek, Vat Creek, Warm Spring Creek, Warm Springs Creek, Washington Creek, West Beaver Creek, West Fork Creek, West Fork East Fork Salmon River, West Fork Herd Creek, West Fork Morgan Creek, West Fork Yankee Fork, West Pass Creek, Wickiup Creek, Williams Creek, Willow Creek, Yankee Fork.

(xxxvii) UPPER SELWAY BASIN: Basin Creek, Bear Creek, Burn Creek, Camp Creek, Canyon Creek, Cliff Creek, Comb Creek, Cooper Creek, Cub Creek, Deep Creek, Eagle Creek, Elk Creek, Fall Creek, Fox Creek, Goat Creek, Gold Pan Creek, Granite Creek, Grass Gulch, Haystack Creek, Hells Half Acre Creek, Indian Creek, Kim Creek, Lake Creek, Langdon Gulch, Little Clearwater River, Lodge Creek, Lunch Creek, Mist Creek, Paloma Creek, Paradise Creek, Peach Creek, Pettibone Creek, Running Creek, Saddle Gulch, Schofield Creek, Selway River (above Pettibone Creek), South Fork Running Creek, South Fork Saddle Gulch, South Fork Surprise Creek, Spruce Creek, Squaw Creek, Stripe Creek, Surprise Creek, Set Creek, Thirteen Creek, Three Lakes Creek, Triple Creek, Wahoo Creek, White Cap Creek, Wilkerson Creek, Witter Creek.

(xxxviii) WEISER BASIN: Anderson Creek, Bull Corral Creek, Dewey Creek, East Fork Weiser River, Little Weiser River, above Anderson Creek, Sheep Creek, Wolf Creek.

- (3) Procedures for site specific modification of listed waterbodies or temperature criteria for bull trout.
- (i) The Regional Administrator may, in his discretion, determine that the temperature criteria in paragraph (a)(1) of this section shall not apply to a specific waterbody or portion thereof listed in paragraph (a)(2) of this section. Any such determination shall be made consistent with §131.11 and shall be based on a finding that bull trout spawning and rearing is not an existing use in such waterbody or portion thereof.
- (ii) The Regional Administrator may, in his discretion, raise the temperature criteria in paragraph (a)(1) of this section as they pertain to a specific waterbody or portion thereof listed in paragraph (a)(2) of this section. Any such determination shall be made consistent with §131.11, and shall be based on a finding that bull trout would be fully supported at the higher temperature criteria.
- (iii) For any determination made under paragraphs (a)(3)(i) or (a)(3)(ii) of this section, the Regional Administrator shall, prior to making such a determination, provide for public notice of and comment on a proposed determination. For any such proposed determination, the Regional Administrator shall prepare and make available to the public a technical support document addressing each waterbody or portion thereof that would be deleted or modified and the justification for each proposed determination. This document shall be made available to the public not later than the date of public notice.
- (iv) The Regional Administrator shall maintain and make available to the public an updated list of determinations made pursuant to paragraphs (a)(3)(i) and (a)(3)(ii) of this section as well as the technical support documents for each determination.
- (v) Nothing in this paragraph (a)(3) shall limit the Administrator's authority to modify the temperature criteria in paragraph (a)(1) of this section or the list of waterbodies in paragraph (a)(2) of this section through rulemaking.
  - (b) [Reserved]
- (c) Excluded waters. 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, unless such waters are designated in Idaho 16.01.02.110. through 160., or, although not so designated, are waters of the United States as defined at 40 CFR 122.2.

[62 FR 41183, July 31, 1997, as amended at 67 FR 11248, Mar. 13, 2002; 73 FR 65739, Nov. 5, 2008]

## ▲ Back to Top

### §131.34 Kansas.

(a) In addition to the State-adopted use designations, the following water body segment in Kansas is designated for an expected aquatic life use:

Stream segment name	HUC8	Segment #	Designated use	
		Basin: Missouri		
	·	·	<u> </u>	

	Subbasin: Independen	ce-Sugar
Whiskey Creek	10240011	235 Expected Aquatic Life.

(b) In addition to the State-adopted use designations, the following water body segments and lakes in Kansas are designated for recreation uses as specified in the following table:

Basin: Chararow   Subbasin: Usper Cinnaron-Bill	Stream segment name	HUC8	Segment #	Designated use
Big Sandy Creek				
				D: 0 1 1 D ::
Indian Creek  11040008  1158conday Contact Recreation Strick Creek 11040008  1178conday Contact Recreation Strick Creek 11040008  1178conday Contact Recreation Strick Creek 11040008  1178conday Contact Recreation 1105007  1198conday Contact Recreation	· ,			
Miger Creek	71			
Slink Creek				
Two Mile Crock				
Anderson Creek				
Subsair: Manasal. ower Republican   Subsair: Mindel Republican   Subsair				Secondary Contact Recreation
Subssim Middle Republican				Primary Contact Recreation
Subbasin: Middle Republican				i ililary Contact (Coroation
Anticlope Creek			•	
Ash Creek				Secondary Contact Recreation
Bean Creek	•			•
Crow Creek (Crystal Creek)   10250016   52   Secondary Contact Recreation	Bean Creek	10250016		
Crow Creek (Crystal Creek)   10250016   52   Secondary Contact Recreation	Cora Creek			
Long Branch	Crow Creek (Crystal Creek)	10250016		
Lost Creek	Korb Creek	10250016		
Lost Creek	Long Branch	10250016		
Louisa Creek				
Oak Creek         10250016         75 Secondary Contact Recreation           Rebecca Creek         10250016         39 Secondary Contact Recreation           Spring Creek         10250016         71 Secondary Contact Recreation           Taylor Creek         10250016         78 Secondary Contact Recreation           Taylor Creek         10250016         74 Secondary Contact Recreation           Walnut Creek         10250016         40 Primary Contact Recreation           Walnut Creek         10250016         40 Primary Contact Recreation           White Rock Creek, North Branch         10250016         40 Secondary Contact Recreation           Whoff Creek         10250016         60 Secondary Contact Recreation           Wolf Creek         10250017         50 Secondary Contact Recreation           Wolf Creek         10250017         50 Secondary Contact Recreation           Cool Creek         10250017         50 Secondary Contact Recreation           Mud Creek         10250017         50 Secondary Contact Recreation           Mud Creek         10250017         50 Secondary Contact Recreation           Turkey Creek         10250017         51 Secondary Contact Recreation           Turkey Creek         10250017         51 Secondary Contact Recreation           Turkey Creek         10270101 </td <td>Louisa Creek</td> <td>10250016</td> <td></td> <td></td>	Louisa Creek	10250016		
Rebecca Creek	Norway Creek			
Spring Creek	Oak Creek	10250016	75	Secondary Contact Recreation
Spring Creek	Rebecca Creek	10250016	39	Secondary Contact Recreation
Taylor Creek	Spring Creek	10250016	71	Secondary Contact Recreation
Walnut Creek         10250016         40 Primary Contact Recreation           Walnut Creek         10250016         46 Secondary Contact Recreation           White Rock Creek, North Branch         10250016         60 Secondary Contact Recreation           Wolf Creek         10250017         60 Secondary Contact Recreation           Emm Creek, West Branch         10250017         50 Secondary Contact Recreation           Em Creek, West Branch         10250017         50 Secondary Contact Recreation           Gar Creek         10250017         51 Secondary Contact Recreation           Mud Creek         10250017         63 Secondary Contact Recreation           Turkey Creek         10250017         63 Secondary Contact Recreation           Turkey Creek         10250017         63 Secondary Contact Recreation           Turkey Creek         10250017         61 Secondary Contact Recreation           Dry Creek         10250017         61 Secondary Contact Recreation           Uniform Creek         10270010         19 Primary Contact Recreation           Humbolt Creek         10270101         19 Primary Contact Recreation           Kitten Creek         10270101         14 Primary Contact Recreation           Little Kitten Creek         10270101         16 Primary Contact Recreation           Mulberry Creek	Spring Creek	10250016		
Walnut Creek	Taylor Creek	10250016	74	Secondary Contact Recreation
White Rock Creek, North Branch	Walnut Creek	10250016	40	Primary Contact Recreation
Subbasin: Lower Republican   10250016   67   Secondary Contact Recreation	Walnut Creek	10250016	46	Secondary Contact Recreation
Subbasin: Lower Republican	White Rock Creek, North Branch			
Cool Creek	Wolf Creek	10250016	67	Secondary Contact Recreation
Elm Creek   West Branch   10250017   59   Secondary Contact Recreation   Gar Creek   10250017   12   Primary Contact Recreation   Mud Creek   10250017   63   Secondary Contact Recreation   Turkey Creek   10250017   51   Secondary Contact Recreation   Subbasin: Upper Kansas	Subb	asin: Lower Rep		
Gar Creek		10250017		•
Mud Creek	Elm Creek, West Branch			
Turkey Creek				
Subbasin: Upper Kansas   10270101				
Dry Creek	·			Secondary Contact Recreation
Humbolt Creek			•	
Kitten Creek         10270101         14 Primary Contact Recreation           Little Arkansas Creek         10270101         13 Primary Contact Recreation           Little Kitten Creek         10270101         16 Primary Contact Recreation           Mulberry Creek         10270101         20 Secondary Contact Recreation           Mulberry Creek         10270102         53 Secondary Contact Recreation           Bartlett Creek         10270102         55 Secondary Contact Recreation           Big Elm Creek         10270102         90 Secondary Contact Recreation           Blackjack Creek         10270102         90 Secondary Contact Recreation           Blacksmith Creek         10270102         64 Secondary Contact Recreation           Blacksmith Creek         10270102         63 Primary Contact Recreation           Brush Creek         10270102         63 Primary Contact Recreation           Brush Creek         10270102         57 Primary Contact Recreation           Coal Creek         10270102         46 Secondary Contact Recreation           Coal Creek         10270102         94 Secondary Contact Recreation           Coryell Creek         10270102         94 Secondary Contact Recreation           Crow Creek         10270102         94 Secondary Contact Recreation           Crow Creek				
Little Arkansas Creek         10270101         13 Primary Contact Recreation           Little Kitten Creek         10270101         16 Primary Contact Recreation           Mulberry Creek         10270102         20 Secondary Contact Recreation           Mulberry Creek         10270102         53 Secondary Contact Recreation           Bartlett Creek         10270102         55 Secondary Contact Recreation           Bartlett Creek         10270102         90 Secondary Contact Recreation           Big Elm Creek         10270102         64 Secondary Contact Recreation           Big Elm Creek         10270102         64 Secondary Contact Recreation           Blackjank Creek         10270102         63 Primary Contact Recreation           Blacksmith Creek         10270102         63 Primary Contact Recreation           Bourbonais Creek         10270102         57 Primary Contact Recreation           Coal Creek         10270102         57 Primary Contact Recreation           Conjell Creek         10270102         46 Secondary Contact Recreation           Cow Creek         10270102         45 Secondary Contact Recreation           Cow Creek         10270102         45 Secondary Contact Recreation           Cow Creek         10270102         51 Secondary Contact Recreation           Darnells Creek				
Little Kitten Creek         10270101         16 Primary Contact Recreation           Mulberry Creek         10270101         20 Secondary Contact Recreation           Subbasin: Middle Kansas           Adams Creek         10270102         53 Secondary Contact Recreation           Bartlett Creek         10270102         55 Secondary Contact Recreation           Big Elm Creek         10270102         90 Secondary Contact Recreation           Blacksjack Creek         10270102         45 Secondary Contact Recreation           Blackspack Creek         10270102         102 Secondary Contact Recreation           Blackspack Creek         10270102         45 Secondary Contact Recreation           Bourbonais Creek         10270102         53 Primary Contact Recreation           Bourbonais Creek         10270102         53 Primary Contact Recreation           Bourbonais Creek         10270102         57 Primary Contact Recreation           Bourbonais Creek         10270102         45 Secondary Contact Recreation           Coal Creek         10270102         45 Secondary Contact Recreation           Cong Creek         10270102         45 Secondary Contact Recreation           Cow Creek         10270102         45 Secondary Contact Recreation           Darmells Creek         10270102         51 Secon				
Mulberry Creek				•
Subbasin: Middle Kansas				· · · · · · · · · · · · · · · · · · ·
Adams Creek         10270102         53 Secondary Contact Recreation           Bartlett Creek         10270102         55 Secondary Contact Recreation           Big Elm Creek         10270102         90 Secondary Contact Recreation           Blackjack Creek         10270102         64 Secondary Contact Recreation           Blacksmith Creek         10270102         102 Secondary Contact Recreation           Bourbonais Creek         10270102         63 Primary Contact Recreation           Brush Creek         10270102         57 Primary Contact Recreation           Coal Creek         10270102         46 Secondary Contact Recreation           Cory Creek         10270102         94 Secondary Contact Recreation           Cow Creek         10270102         45 Secondary Contact Recreation           Cow Creek         10270102         45 Secondary Contact Recreation           Darnells Creek         10270102         86 Primary Contact Recreation           Darnells Creek         10270102         78 Secondary Contact Recreation           Doyle Creek         10270102         78 Secondary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dry Creek         10270102	, , , , , , , , , , , , , , , , , , ,			Secondary Contact Recreation
Bartlett Creek         10270102         55 Secondary Contact Recreation           Big Elm Creek         10270102         90 Secondary Contact Recreation           Blackjack Creek         10270102         64 Secondary Contact Recreation           Blacksmith Creek         10270102         102 Secondary Contact Recreation           Bourbonais Creek         10270102         63 Primary Contact Recreation           Brush Creek         10270102         57 Primary Contact Recreation           Brush Creek         10270102         46 Secondary Contact Recreation           Coal Creek         10270102         46 Secondary Contact Recreation           Coryell Creek         10270102         45 Secondary Contact Recreation           Cow Creek         10270102         86 Primary Contact Recreation           Crow Creek         10270102         86 Primary Contact Recreation           Darnells Creek         10270102         51 Secondary Contact Recreation           Doyle Creek         10270102         78 Secondary Contact Recreation           Doyle Creek         10270102         69 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dutch Creek         10270102         92 Secondary Contact Recreation           Elm Creek         10270102				0
Big Elm Creek         10270102         90 Secondary Contact Recreation           Blackjack Creek         10270102         64 Secondary Contact Recreation           Blacksmith Creek         10270102         102 Secondary Contact Recreation           Bourbonais Creek         10270102         63 Primary Contact Recreation           Brush Creek         10270102         57 Primary Contact Recreation           Coal Creek         10270102         46 Secondary Contact Recreation           Coryell Creek         10270102         94 Secondary Contact Recreation           Cow Creek         10270102         45 Secondary Contact Recreation           Crow Creek         10270102         86 Primary Contact Recreation           Darnells Creek         10270102         51 Secondary Contact Recreation           Dog Creek         10270102         78 Secondary Contact Recreation           Doyle Creek         10270102         69 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dutch Creek         10270102         92 Secondary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         103 Secondary Contact Recreation				
Blackjack Creek         10270102         64 Secondary Contact Recreation           Blacksmith Creek         10270102         102 Secondary Contact Recreation           Bourbonais Creek         10270102         63 Primary Contact Recreation           Brush Creek         10270102         57 Primary Contact Recreation           Coal Creek         10270102         46 Secondary Contact Recreation           Coryell Creek         10270102         94 Secondary Contact Recreation           Cow Creek         10270102         45 Secondary Contact Recreation           Crow Creek         10270102         86 Primary Contact Recreation           Darnells Creek         10270102         51 Secondary Contact Recreation           Dog Creek         10270102         78 Secondary Contact Recreation           Doyle Creek         10270102         69 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dutch Creek         10270102         92 Secondary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         98 Primary C				
Blacksmith Creek         10270102         102 Secondary Contact Recreation           Bourbonais Creek         10270102         63 Primary Contact Recreation           Brush Creek         10270102         57 Primary Contact Recreation           Coal Creek         10270102         46 Secondary Contact Recreation           Coryell Creek         10270102         94 Secondary Contact Recreation           Cow Creek         10270102         45 Secondary Contact Recreation           Crow Creek         10270102         86 Primary Contact Recreation           Darnells Creek         10270102         51 Secondary Contact Recreation           Dog Creek         10270102         78 Secondary Contact Recreation           Doyle Creek         10270102         69 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dutch Creek         10270102         92 Secondary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         98 Secondary Contact	•			
Bourbonais Creek         10270102         63 Primary Contact Recreation           Brush Creek         10270102         57 Primary Contact Recreation           Coal Creek         10270102         46 Secondary Contact Recreation           Coryell Creek         10270102         94 Secondary Contact Recreation           Cow Creek         10270102         45 Secondary Contact Recreation           Crow Creek         10270102         86 Primary Contact Recreation           Darnells Creek         10270102         51 Secondary Contact Recreation           Dog Creek         10270102         78 Secondary Contact Recreation           Doyle Creek         10270102         69 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dutch Creek         10270102         92 Secondary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         58 Secondary Contact Recreation           Elm Slough         10270102         58 Secondary Contact Recreation	,			
Brush Creek         10270102         57         Primary Contact Recreation           Coal Creek         10270102         46         Secondary Contact Recreation           Coryell Creek         10270102         94         Secondary Contact Recreation           Cow Creek         10270102         45         Secondary Contact Recreation           Crow Creek         10270102         86         Primary Contact Recreation           Darnells Creek         10270102         51         Secondary Contact Recreation           Dog Creek         10270102         78         Secondary Contact Recreation           Doyle Creek         10270102         69         Primary Contact Recreation           Dry Creek         10270102         79         Primary Contact Recreation           Dutch Creek         10270102         92         Secondary Contact Recreation           Elm Creek         10270102         98         Primary Contact Recreation           Elm Creek         10270102         98         Primary Contact Recreation           Elm Creek         10270102         103         Secondary Contact Recreation           Elm Slough         10270102         58         Secondary Contact Recreation				,
Coal Creek         10270102         46 Secondary Contact Recreation           Coryell Creek         10270102         94 Secondary Contact Recreation           Cow Creek         10270102         45 Secondary Contact Recreation           Crow Creek         10270102         86 Primary Contact Recreation           Darnells Creek         10270102         51 Secondary Contact Recreation           Dog Creek         10270102         78 Secondary Contact Recreation           Doyle Creek         10270102         69 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dutch Creek         10270102         92 Secondary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         58 Secondary Contact Recreation           Elm Slough         10270102         58 Secondary Contact Recreation				,
Coryell Creek         10270102         94 Secondary Contact Recreation           Cow Creek         10270102         45 Secondary Contact Recreation           Crow Creek         10270102         86 Primary Contact Recreation           Darnells Creek         10270102         51 Secondary Contact Recreation           Dog Creek         10270102         78 Secondary Contact Recreation           Doyle Creek         10270102         69 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dutch Creek         10270102         92 Secondary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         58 Secondary Contact Recreation           Elm Slough         10270102         58 Secondary Contact Recreation				•
Cow Creek         10270102         45 Secondary Contact Recreation           Crow Creek         10270102         86 Primary Contact Recreation           Darnells Creek         10270102         51 Secondary Contact Recreation           Dog Creek         10270102         78 Secondary Contact Recreation           Doyle Creek         10270102         69 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dutch Creek         10270102         92 Secondary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         103 Secondary Contact Recreation           Elm Slough         10270102         58 Secondary Contact Recreation				
Crow Creek         10270102         86 Primary Contact Recreation           Darnells Creek         10270102         51 Secondary Contact Recreation           Dog Creek         10270102         78 Secondary Contact Recreation           Doyle Creek         10270102         69 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dutch Creek         10270102         92 Secondary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         103 Secondary Contact Recreation           Elm Slough         10270102         58 Secondary Contact Recreation	·			
Darnells Creek         10270102         51 Secondary Contact Recreation           Dog Creek         10270102         78 Secondary Contact Recreation           Doyle Creek         10270102         69 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dutch Creek         10270102         92 Secondary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         103 Secondary Contact Recreation           Elm Slough         10270102         58 Secondary Contact Recreation				
Dog Creek         10270102         78 Secondary Contact Recreation           Doyle Creek         10270102         69 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dutch Creek         10270102         92 Secondary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         103 Secondary Contact Recreation           Elm Slough         10270102         58 Secondary Contact Recreation				
Doyle Creek         10270102         69 Primary Contact Recreation           Dry Creek         10270102         79 Primary Contact Recreation           Dutch Creek         10270102         92 Secondary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         103 Secondary Contact Recreation           Elm Slough         10270102         58 Secondary Contact Recreation				
Dry Creek         10270102         79 Primary Contact Recreation           Dutch Creek         10270102         92 Secondary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         103 Secondary Contact Recreation           Elm Slough         10270102         58 Secondary Contact Recreation				·
Dutch Creek         10270102         92 Secondary Contact Recreation           Elm Creek         10270102         98 Primary Contact Recreation           Elm Creek         10270102         103 Secondary Contact Recreation           Elm Slough         10270102         58 Secondary Contact Recreation	,			
Elm Creek     10270102     98 Primary Contact Recreation       Elm Creek     10270102     103 Secondary Contact Recreation       Elm Slough     10270102     58 Secondary Contact Recreation	•			· · · · · · · · · · · · · · · · · · ·
Elm Creek     10270102     103 Secondary Contact Recreation       Elm Slough     10270102     58 Secondary Contact Recreation				*
Elm Slough 10270102 58 Secondary Contact Recreation				
ů ,				
TOLIVIOL SOCIETALY CONTROL TOURS TOU	0			,,
I		10270102		

1			
French Creek	10270102		Primary Contact Recreation
Gilson Creek	10270102		Secondary Contact Recreation
Hendricks Creek	10270102		Primary Contact Recreation
Hise Creek	10270102		Secondary Contact Recreation
Indian Creek	10270102		Secondary Contact Recreation
James Creek	10270102		Secondary Contact Recreation
Jim Creek	10270102	52	Secondary Contact Recreation
Johnson Creek	10270102	84	Secondary Contact Recreation
Kuenzli Creek	10270102	82	Secondary Contact Recreation
Little Cross Creek	10270102	61	Secondary Contact Recreation
Little Muddy Creek	10270102		Primary Contact Recreation
Loire Creek	10270102		Primary Contact Recreation
Lost Creek	10270102		Secondary Contact Recreation
Messhoss Creek	10270102		Primary Contact Recreation
Mud Creek	10270102		Secondary Contact Recreation
Mud Creek			
	10270102		Secondary Contact Recreation
Muddy Creek, West Fork	10270102		Secondary Contact Recreation
Mulberry Creek	10270102		Secondary Contact Recreation
Mulberry Creek	10270102		Secondary Contact Recreation
Nehring Creek	10270102		Primary Contact Recreation
Paw Paw Creek	10270102		Secondary Contact Recreation
Pleasant Hill Run Creek	10270102		Primary Contact Recreation
Pomeroy Creek	10270102	59	Secondary Contact Recreation
Post Creek	10270102		Secondary Contact Recreation
Pretty Creek	10270102		Secondary Contact Recreation
Rock Creek	10270102		Primary Contact Recreation
Rock Creek, East Fork	10270102		Secondary Contact Recreation
Ross Creek	10270102		Secondary Contact Recreation
Salt Creek	10270102		Secondary Contact Recreation
Sand Creek	10270102		Secondary Contact Recreation
Shunganunga Creek, South Branch	10270102		Primary Contact Recreation
Snake Creek	10270102		Secondary Contact Recreation
Snokomo Creek	10270102		Secondary Contact Recreation
Spring Creek	10270102		Secondary Contact Recreation
Spring Creek	10270102	54	Primary Contact Recreation
Spring Creek	10270102	76	Secondary Contact Recreation
Spring Creek	10270102	105	Secondary Contact Recreation
Sullivan Creek	10270102	89	Primary Contact Recreation
Tecumseh Creek	10270102	107	Secondary Contact Recreation
Turkey Creek	10270102		Primary Contact Recreation
Unnamed Stream	10270102		Secondary Contact Recreation
Vassar Creek	10270102		Secondary Contact Recreation
Vermillion Creek	10270102		Primary Contact Recreation
Walnut Creek			Secondary Contact Recreation
Wells Creek	10270102		Secondary Contact Recreation Secondary Contact Recreation
	10270102	00	
Whetstone Creek		101	0
	10270102		Secondary Contact Recreation
Wilson Creek	10270102	50	Primary Contact Recreation
Wolf Creek	10270102 10270102	50 49	
Wolf Creek	10270102 10270102 Subbasin: Delawa	50 49 re	Primary Contact Recreation Primary Contact Recreation
Wolf Creek  Banner Creek	10270102 10270102 Subbasin: Delawa 10270103	50 49 <b>re</b> 45	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek	10270102 10270102 Subbasin: Delawa 10270103 10270103	50 49 <b>re</b> 45 39	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation
Wolf Creek  Banner Creek	10270102 10270102 Subbasin: Delawa 10270103	50 49 re 45 39 47	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek	10270102 10270102 Subbasin: Delawa 10270103 10270103	50 49 re 45 39 47 44	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek	10270102 10270102 Subbasin: Delawa 10270103 10270103 10270103	50 49 re 45 39 47 44	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek	10270102 10270102 Subbasin: Delawar 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek	10270102 10270102 Subbasin: Delawa 10270103 10270103 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek	10270102 10270102 Subbasin: Delawa 10270103 10270103 10270103 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54 8	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Wolf Creek  Banner Creek Barnes Creek Bills Creek Brush Creek Brush Creek Brush Creek Brush Creek Catamount Creek Cedar Creek, North	10270102 10270102 Subbasin: Delawa 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54 8 49	Primary Contact Recreation Primary Contact Recreation  Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
Wolf Creek  Banner Creek Barnes Creek Bills Creek Brush Creek Brush Creek Brush Creek Burr Oak Branch Catamount Creek Cedar Creek, North Claywell Creek	10270102 10270102 Subbasin: Delawa 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54 8 49 46	Primary Contact Recreation Primary Contact Recreation  Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
Wolf Creek  Banner Creek Barnes Creek Bills Creek Brush Creek Brush Creek Brush Creek Burr Oak Branch Catamount Creek Cedar Creek, North Claywell Creek Clear Creek	10270102 10270102 Subbasin: Delawa 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54 8 49 46 56	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek  Cedar Creek, North  Claywell Creek  Clear Creek  Coal Creek	10270102 10270102 Subbasin: Delawa 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54 8 49 46 56 19	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek  Cedar Creek, North  Claywell Creek  Clear Creek  Coal Creek  Grasshopper Creek	10270102 10270102 3ubbasin: Delawa 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54 8 49 46 56 19 50	Primary Contact Recreation Primary Contact Recreation  Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek  Cedar Creek, North  Claywell Creek  Clear Creek  Grasshopper Creek  Grasshopper Creek	10270102 10270102 3ubbasin: Delawa 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54 8 49 46 56 19 50	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek  Cedar Creek, North  Claywell Creek  Clear Creek  Grasshopper Creek  Grasshopper Creek  Gregg Creek	10270102 10270102 3ubbasin: Delawa 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54 8 49 46 56 19 50 18	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek  Cedar Creek, North  Claywell Creek  Clear Creek  Grasshopper Creek  Grasshopper Creek  Gregg Creek  Honey Creek	10270102 10270102 3ubbasin: Delawa 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54 8 49 46 56 19 50 18 20 24	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek  Cedar Creek, North  Claywell Creek  Clear Creek  Grasshopper Creek  Grasshopper Creek  Gregg Creek	10270102 10270102 3ubbasin: Delawa 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54 8 49 46 56 19 50 18 20 24	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek  Cedar Creek, North  Claywell Creek  Clear Creek  Grasshopper Creek  Grasshopper Creek  Gregg Creek  Honey Creek	10270102 10270102 3ubbasin: Delawa 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54 8 49 46 56 19 50 18 20 24 55	Primary Contact Recreation Primary Contact Recreation  Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek  Cedar Creek, North  Claywell Creek  Clear Creek  Grasshopper Creek  Grasshopper Creek  Gregg Creek  Honey Creek  Little Grasshopper Creek	10270102 10270102 3ubbasin: Delawa 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54 8 49 46 56 19 50 18 20 24 55	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek  Cedar Creek, North  Claywell Creek  Clear Creek  Grasshopper Creek  Grasshopper Creek  Gregg Creek  Little Grasshopper Creek  Little Wild Horse Creek	10270102 10270102 3ubbasin: Delawa 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103 10270103	50 49 re 45 39 47 44 54 8 49 46 56 19 50 18 20 24 55 16	Primary Contact Recreation Primary Contact Recreation  Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek  Cedar Creek, North  Claywell Creek  Clear Creek  Grasshopper Creek  Grasshopper Creek  Grasshopper Creek  Little Grasshopper Creek  Little Wild Horse Creek  Nebo Creek  Nebo Creek	10270102 10270102 3ubbasin: Delawa 10270103	50 49 re 45 39 47 44 54 8 49 46 56 19 50 18 20 24 55 16 57	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek  Cedar Creek, North  Claywell Creek  Clear Creek  Grasshopper Creek  Grasshopper Creek  Gregg Creek  Honey Creek  Little Grasshopper Creek  Mission Creek  Nebo Creek  Negro Creek  Negro Creek	10270102 10270102 3ubbasin: Delawa 10270103	50 49 re 45 39 47 44 54 8 49 46 56 19 50 18 20 24 55 16 57 40	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek  Cedar Creek, North  Claywell Creek  Claar Creek  Grasshopper Creek  Grasshopper Creek  Gregg Creek  Honey Creek  Little Grasshopper Creek  Mission Creek  Nebo Creek  Negro Creek  Otter Creek	10270102 10270102 10270102 3ubbasin: Delawa 10270103	50 49 re 45 39 47 44 54 8 49 46 56 19 50 18 20 24 55 16 57 40 48 43	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek  Cedar Creek, North  Claywell Creek  Clear Creek  Grasshopper Creek  Grasshopper Creek  Gregg Creek  Honey Creek  Little Grasshopper Creek  Mission Creek  Nebo Creek  Negro Creek  Otter Creek  Plum Creek  Plum Creek	10270102 10270102 10270102 3ubbasin: Delawa 10270103	50 49 re 45 39 47 44 54 8 49 46 56 19 50 18 20 24 55 16 57 40 48 43	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation
Wolf Creek  Banner Creek  Barnes Creek  Bills Creek  Brush Creek  Brush Creek  Burr Oak Branch  Catamount Creek  Cedar Creek, North  Claywell Creek  Claar Creek  Grasshopper Creek  Grasshopper Creek  Gregg Creek  Honey Creek  Little Grasshopper Creek  Mission Creek  Nebo Creek  Negro Creek  Otter Creek	10270102 10270102 10270102 3ubbasin: Delawa 10270103	50 49 re 45 39 47 44 54 8 49 46 56 19 50 18 20 24 55 16 57 40 48 43 41 36	Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Secondary Contact Recreation

Square Creek   10270163   38  Secondary Contact Recreation   10270163   28  Secondary Contact Recreation   10270164   28  Secondary Contact Recreation   10270	Spring Crook		1 caciai regulation	
	Spring Creek	10270103		
	'			
	Tick Creek			
	Unnamed Stream			,
Subbasin: Lower Kamasa	Walnut Creek	10270103	51	Primary Contact Recreation
	Wolfley Creek	10270103	27	Secondary Contact Recreation
Stuath Creek   10271014		ubbasin: Lower Ka		
Stuth Creek	Baldwin Creek			
Subtermitk Creek				•
Jamp Creek	·			•
Table   Topic   Table   Tabl				•
Dicker   1927/1014	'			,
Diest Creek	'			
	Clear Creek			
	Cow Creek	10270104		
Dawson Creek	Crooked Creek	10270104		•
Illic Creek	Crooked Creek	10270104	12	Primary Contact Recreation
	Dawson Creek			
Janson Creek	Elk Creek			
10270104	Full Creek			,
	Hanson Creek			,
Hulls Branch   10270104	Hog Creek			,
Indian Creek				
Jambalo Creek				
				•
				•
Little Celar Creek				•
Itilit Turkey Creek				
International Creek   1027/1014				
Ninemile Creek	Little Wakarusa Creek			
Vilnemils Creek	Mission Creek, East	10270104	61	Secondary Contact Recreation
Dakley Creek	Ninemile Creek	10270104	15	Secondary Contact Recreation
Plum Creek	Ninemile Creek	10270104		
Prairie Creek	Oakley Creek	10270104		, -
10270104   35   Primary Contact Recreation	Plum Creek			•
Scatter Creek   10270104   13   Secondary Contact Recreation	Prairie Creek			
Spoon Creek				
Stone Horse Creek				
Stranger Creek	'			
Stranger Creek				
Stranger Creek	_ v			· · · · · · · · · · · · · · · · · · ·
Tonganoxie Creek	, and the second			
Tooley Creek	, and the second			,
Turkey Creek	Tooley Creek			
Dinamed Stream	Turkey Creek	10270104		•
Wakarusa River, Middle Branch         10270104         64         Secondary Contact Recreation           Wakarusa River, South Branch         10270104         63         Primary Contact Recreation           Washington Creek         10270104         70         Primary Contact Recreation           Yankee Tank Creek         10270104         70         Primary Contact Recreation           Ackerman Creek         10270205         49         Secondary Contact Recreation           Black Vermillion River, Clear Fork         10270205         9         Primary Contact Recreation           Black Vermillion River, North Fork         10270205         15         Secondary Contact Recreation           Black Vermillion River, South Fork         10270205         12         Secondary Contact Recreation           Black Vermillion River, South Fork         10270205         12         Secondary Contact Recreation           Black Vermillion River, South Fork         10270205         12         Secondary Contact Recreation           Black Vermillion River, South Fork         10270205         573         Primary Contact Recreation           Black Vermillion River, South Fork         10270205         573         Primary Contact Recreation           Black Vermillion River, South Fork         10270205         573         Primary Contact Recreation	Unnamed Stream	10270104		
Wakarusa River, South Branch         10270104         63 Primary Contact Recreation           Washington Creek         10270104         36 Primary Contact Recreation           Yankee Tank Creek         10270104         70 Primary Contact Recreation           Subbasin: Lower Big Blue           Ackerman Creek         10270205         49 Secondary Contact Recreation           Black Vermillion River, Clear Fork         10270205         9 Primary Contact Recreation           Black Vermillion River, North Fork         10270205         15 Secondary Contact Recreation           Black Vermillion River, South Fork         10270205         12 Secondary Contact Recreation           Bluff Creek         10270205         573 Primary Contact Recreation           Bommer Creek         10270205         40 Secondary Contact Recreation           Busksnort Creek         10270205         56 Secondary Contact Recreation           Carter Creek         10270205         59 Secondary Contact Recreation           Cedar Creek         10270205         59 Secondary Contact Recreation           Cedar Creek         10270205         52 Primary Contact Recreation           Des Shazer Creek         10270205         55 Secondary Contact Recreation           Des Condary Creek         10270205         50 Secondary Contact Recreation           Des Condary	Unnamed Stream	10270104		
Washington Creek         10270104         36 Primary Contact Recreation           Yankee Tank Creek         10270104         70 Primary Contact Recreation           Ackerman Creek         10270205         49 Secondary Contact Recreation           Black Vermillion River, Clear Fork         10270205         9 Primary Contact Recreation           Black Vermillion River, North Fork         10270205         15 Secondary Contact Recreation           Black Vermillion River, South Fork         10270205         12 Secondary Contact Recreation           Black Vermillion River, South Fork         10270205         573 Primary Contact Recreation           Black Vermillion River, South Fork         10270205         573 Primary Contact Recreation           Black Vermillion River, South Fork         10270205         40 Secondary Contact Recreation           Black Vermillion River, South Fork         10270205         573 Primary Contact Recreation           Black Vermillion River, South Fork         10270205         56 Secondary Contact Recreation           Black Vermillion River, North Fork         10270205         56 Secondary Contact Recreation           Black Vermillion River, North Fork         10270205         59 Secondary Contact Recreation           Black Vermillion River, North Fork         10270205         59 Secondary Contact Recreation           Black Vermillion River, North Fork	Wakarusa River, Middle Branch			
Subbasin: Lower Big Blue  Ackerman Creek  Subbasin: Lower Big Blue  Ackerman Creek  10270205  49 Secondary Contact Recreation  Black Vermillion River, Clear Fork  10270205  Black Vermillion River, North Fork  10270205  15 Secondary Contact Recreation  Black Vermillion River, North Fork  10270205  12 Secondary Contact Recreation  Black Vermillion River, South Fork  10270205  12 Secondary Contact Recreation  Black Vermillion River, South Fork  10270205  12 Secondary Contact Recreation  Bommer Creek  10270205  30 Primary Contact Recreation  Bommer Creek  10270205  40 Secondary Contact Recreation  Boath Creek  10270205  566 Secondary Contact Recreation  Carter Creek  10270205  59 Secondary Contact Recreation  Condodger Creek  10270205  50 Secondary Contact Recreation	Wakarusa River, South Branch			,
Subbasin: Lower Big Blue  Ackerman Creek 10270205 49 Secondary Contact Recreation Black Vermillion River, Clear Fork 10270205 9 Primary Contact Recreation Black Vermillion River, North Fork 10270205 15 Secondary Contact Recreation Black Vermillion River, South Fork 10270205 12 Secondary Contact Recreation Black Vermillion River, South Fork 10270205 12 Secondary Contact Recreation Bluff Creek 10270205 573 Primary Contact Recreation Busksnort Creek 10270205 40 Secondary Contact Recreation Busksnort Creek 10270205 566 Secondary Contact Recreation Carter Creek 10270205 578 Secondary Contact Recreation Carter Creek 10270205 579 Secondary Contact Recreation Condodger Creek 10270205 579 Secondary Contact Recreation Condodger Creek 10270205 579 Secondary Contact Recreation Condodger Creek 10270205 570 Secondary Contact Recreation Condodger Creek Condodger Creek 10270205 570 Secondary Contact Recreation				
Ackerman Creek         10270205         49 Secondary Contact Recreation           Black Vermillion River, Clear Fork         10270205         9 Primary Contact Recreation           Black Vermillion River, North Fork         10270205         15 Secondary Contact Recreation           Black Vermillion River, South Fork         10270205         12 Secondary Contact Recreation           Bluff Creek         10270205         573 Primary Contact Recreation           Bommer Creek         10270205         40 Secondary Contact Recreation           Busksnort Creek         10270205         566 Secondary Contact Recreation           Carter Creek         10270205         59 Secondary Contact Recreation           Cedar Creek         10270205         56 Secondary Contact Recreation           Corndodger Creek         10270205         52 Primary Contact Recreation           De Shazer Creek         10270205         55 Secondary Contact Recreation           Deadman Creek         10270205         50 Secondary Contact Recreation           Deer Creek         10270205         50 Secondary Contact Recreation           Deer Creek         10270205         53 Secondary Contact Recreation           Dog Walk Creek         10270205         53 Secondary Contact Recreation				Primary Contact Recreation
Black Vermillion River, Clear Fork Black Vermillion River, North Fork Black Vermillion River, North Fork Black Vermillion River, South Fork Black Vermillion River, Outlact Recreation Black Vermillion River, North Fork Black Vermillion River, North Fork Black Vermillion River, North Fork Black Vermillion River, Outlact Recreation Black Vermillion River, North Fork Black Vermillion River, Oothact Recreation Black Vermillion River, North Fork Black Vermillion River, Oothact Recreation Black Vermillion River, North Fork Black Vermillion River, Oothact Recreation Black V				Secondary Contest Decreeties
Black Vermillion River, North Fork         10270205         15 Secondary Contact Recreation           Black Vermillion River, South Fork         10270205         12 Secondary Contact Recreation           Bluff Creek         10270205         573 Primary Contact Recreation           Bommer Creek         10270205         40 Secondary Contact Recreation           Busksnort Creek         10270205         566 Secondary Contact Recreation           Carter Creek         10270205         59 Secondary Contact Recreation           Cedar Creek         10270205         56 Secondary Contact Recreation           Corndodger Creek         10270205         52 Primary Contact Recreation           De Shazer Creek         10270205         55 Secondary Contact Recreation           Deadman Creek         10270205         50 Secondary Contact Recreation           Deer Creek         10270205         36 Secondary Contact Recreation           Deer Creek         10270205         36 Secondary Contact Recreation           Dog Walk Creek         10270205         36 Secondary Contact Recreation				
Black Vermillion River, South Fork         10270205         12 Secondary Contact Recreation           Bluff Creek         10270205         573 Primary Contact Recreation           Bowmer Creek         10270205         40 Secondary Contact Recreation           Busksnort Creek         10270205         566 Secondary Contact Recreation           Carter Creek         10270205         59 Secondary Contact Recreation           Cedar Creek         10270205         56 Secondary Contact Recreation           Corndodger Creek         10270205         52 Primary Contact Recreation           De Shazer Creek         10270205         55 Secondary Contact Recreation           Deadman Creek         10270205         60 Secondary Contact Recreation           Deer Creek         10270205         36 Secondary Contact Recreation           Deer Creek         10270205         36 Secondary Contact Recreation           Dog Walk Creek         10270205         53 Secondary Contact Recreation				
Source   S				
Sommer Creek	Bluff Creek			
Busksnort Creek         10270205         566         Secondary Contact Recreation           Carter Creek         10270205         59         Secondary Contact Recreation           Cedar Creek         10270205         56         Secondary Contact Recreation           Corndodger Creek         10270205         52         Primary Contact Recreation           De Shazer Creek         10270205         55         Secondary Contact Recreation           Deadman Creek         10270205         60         Secondary Contact Recreation           Deer Creek         10270205         36         Secondary Contact Recreation           Dog Walk Creek         10270205         53         Secondary Contact Recreation	Bommer Creek			
Carter Creek         10270205         59 Secondary Contact Recreation           Cedar Creek         10270205         56 Secondary Contact Recreation           Corndodger Creek         10270205         52 Primary Contact Recreation           De Shazer Creek         10270205         55 Secondary Contact Recreation           Deadman Creek         10270205         60 Secondary Contact Recreation           Deer Creek         10270205         36 Secondary Contact Recreation           Dog Walk Creek         10270205         53 Secondary Contact Recreation	Busksnort Creek			
Cedar Creek         10270205         56         Secondary Contact Recreation           Corndodger Creek         10270205         52         Primary Contact Recreation           De Shazer Creek         10270205         55         Secondary Contact Recreation           Deadman Creek         10270205         60         Secondary Contact Recreation           Deer Creek         10270205         36         Secondary Contact Recreation           Dog Walk Creek         10270205         53         Secondary Contact Recreation	Carter Creek			
Corndodger Creek         10270205         52         Primary Contact Recreation           De Shazer Creek         10270205         55         Secondary Contact Recreation           Deadman Creek         10270205         60         Secondary Contact Recreation           Deer Creek         10270205         36         Secondary Contact Recreation           Dog Walk Creek         10270205         53         Secondary Contact Recreation	Cedar Creek		56	Secondary Contact Recreation
De Shazer Creek         10270205         55 Secondary Contact Recreation           Deadman Creek         10270205         60 Secondary Contact Recreation           Deer Creek         10270205         36 Secondary Contact Recreation           Dog Walk Creek         10270205         53 Secondary Contact Recreation	Corndodger Creek	10270205		
Deer Creek 10270205 36 Secondary Contact Recreation Dog Walk Creek 10270205 53 Secondary Contact Recreation	De Shazer Creek	10270205		
Dog Walk Creek 10270205 53 Secondary Contact Recreation	Deadman Creek	10270205		· · · · · · · · · · · · · · · · · · ·
	Deer Creek			· · · · · · · · · · · · · · · · · · ·
Outch Creek 10270205 44 Primary Contact Recreation	Dog Walk Creek			
, , , , , , , , , , , , , , , , , , ,	Dutch Creek	10270205	44	Primary Contact Recreation

5,20,2010	.O. 10 Oode 01	i caciai ragalation	
Elm Creek	10270205	46	Secondary Contact Recreation
Elm Creek, North	10270205		Secondary Contact Recreation
Fancy Creek, North Fork	10270205	61	Secondary Contact Recreation
Fancy Creek, West	10270205		Primary Contact Recreation
Game Fork	10270205	54	Secondary Contact Recreation
Hop Creek	10270205		Secondary Contact Recreation
Indian Creek	10270205		Secondary Contact Recreation
Jim Creek	10270205		Secondary Contact Recreation
Johnson Fork	10270205		Secondary Contact Recreation
Kearney Branch	10270205		Secondary Contact Recreation
Lily Creek	10270205		Secondary Contact Recreation
Little Indian Creek	10270205		Secondary Contact Recreation
Little Timber Creek	10270205		Primary Contact Recreation
Meadow Creek	10270205 10270205		Secondary Contact Recreation
Mission Creek  Murdock Creek	10270205		Primary Contact Recreation Secondary Contact Recreation
Otter Creek	10270205		Secondary Contact Recreation
Otter Creek, North	10270205		Primary Contact Recreation
Perkins Creek	10270205		Secondary Contact Recreation
Phiel Creek	10270205		Primary Contact Recreation
Raemer Creek	10270205		Primary Contact Recreation
Robidoux Creek	10270205		Primary Contact Recreation
Schell Creek	10270205		Primary Contact Recreation
School Branch	10270205		Secondary Contact Recreation
Scotch Creek	10270205		Secondary Contact Recreation
Spring Creek	10270205	19	Primary Contact Recreation
Spring Creek	10270205	65	Primary Contact Recreation
Timber Creek	10270205	64	Primary Contact Recreation
Weyer Creek	10270205	50	Secondary Contact Recreation
Subt	pasin: Upper Littl		
Dry Creek	10270206		Secondary Contact Recreation
	asin: Lower Littl		
Ash Creek	10270207		Secondary Contact Recreation
Beaver Creek	10270207		Secondary Contact Recreation
Bolling Creek	10270207		Secondary Contact Recreation
Bowman Creek	10270207		Secondary Contact Recreation
Buffalo Creek	10270207		Secondary Contact Recreation
Camp Creek Camp Creek	10270207 10270207		Secondary Contact Recreation Primary Contact Recreation
Cedar Creek	10270207		Secondary Contact Recreation
Cherry Creek	10270207		Secondary Contact Recreation  Secondary Contact Recreation
Coon Creek	10270207		Primary Contact Recreation
Fawn Creek	10270207		Secondary Contact Recreation
Gray Branch	10270207		Secondary Contact Recreation
Humphrey Branch	10270207		Secondary Contact Recreation
Iowa Creek	10270207		Secondary Contact Recreation
Jones Creek	10270207		Secondary Contact Recreation
Joy Creek	10270207	13	Secondary Contact Recreation
Lane Branch	10270207		Secondary Contact Recreation
Malone Creek	10270207		Secondary Contact Recreation
Melvin Creek	10270207		Secondary Contact Recreation
Mercer Creek	10270207		Primary Contact Recreation
Mill Creek, South Fork	10270207		Secondary Contact Recreation
Myer Creek	10270207		Secondary Contact Recreation
Riddle Creek	10270207		Secondary Contact Recreation
Rose Creek	10270207		Secondary Contact Recreation
Salt Creek	10270207		Primary Contact Recreation
School Creek	10270207		Primary Contact Recreation
Silver Creek	10270207		Primary Contact Recreation
Spring Creek	10270207		Secondary Contact Recreation
Spring Creek	10270207		Secondary Contact Recreation
Walnut Creek	10270207		Primary Contact Recreation
	sin: Lower Arkar		
Spring Creek	ıbbasin: Rattlesn 11030009		Secondary Contact Recreation
	ubbasin: Gar-Pea		Decondary Contact Necreation
Gar Creek	11030010		Primary Contact Recreation
Oai Ologi	Subbasin: Cow		i iiiiary Contact Necreation
Blood Creek	11030011		Secondary Contact Recreation
Deception Creek	11030011		Secondary Contact Recreation Secondary Contact Recreation
Dry Creek	11030011		Primary Contact Recreation
Jarvis Creek	11030011		Primary Contact Recreation
Little Cheyenne Creek	11030011		Primary Contact Recreation
	11300011	ļ'	

012912019	cont — code of	rederal Regulation	15
Little Cow Creek	11030011	2	Primary Contact Recreation
Lost Creek	11030011		Secondary Contact Recreation
Owl Creek	11030011		Primary Contact Recreation
			Secondary Contact Recreation
Plum Creek	11030011		
Salt Creek	11030011		Primary Contact Recreation
Spring Creek	11030011	20	Secondary Contact Recreation
Sub	basin: Little Arka	ansas	
Beaver Creek	11030012	26	Primary Contact Recreation
Bull Creek	11030012		Primary Contact Recreation
Dry Creek	11030012		Secondary Contact Recreation
Dry Turkey Creek	11030012		Primary Contact Recreation
Emma Creek	11030012		Primary Contact Recreation
Emma Creek	11030012	7	Primary Contact Recreation
Emma Creek, West	11030012	8	Primary Contact Recreation
Gooseberry Creek	11030012	17	Primary Contact Recreation
Horse Creek	11030012		Primary Contact Recreation
			,
Jester Creek	11030012		Primary Contact Recreation
Jester Creek, East Fork	11030012		Primary Contact Recreation
Kisiwa Creek	11030012	15	Secondary Contact Recreation
Lone Tree Creek	11030012	20	Secondary Contact Recreation
Mud Creek	11030012		Primary Contact Recreation
Running Turkey Creek	11030012		Secondary Contact Recreation
Salt Creek	11030012		Primary Contact Recreation
Sun Creek	11030012		Primary Contact Recreation
Turkey Creek	11030012		Secondary Contact Recreation
Subbasi	n: Middle Arkans	as-Slate	
Antelope Creek	11030013	25	Primary Contact Recreation
Badger Creek	11030013		Primary Contact Recreation
ŭ			Primary Contact Recreation
Beaver Creek	11030013		
Beaver Creek	11030013		Primary Contact Recreation
Big Slough	11030013		Primary Contact Recreation
Big Slough, South Fork	11030013		Primary Contact Recreation
Bitter Creek	11030013	28	Primary Contact Recreation
Dry Creek	11030013		Primary Contact Recreation
Dry Creek	11030013		Primary Contact Recreation
Gypsum Creek	11030013		Primary Contact Recreation
**			· ·
Hargis Creek	11030013		Primary Contact Recreation
Lost Creek	11030013	23	Primary Contact Recreation
Negro Creek	11030013	20	Primary Contact Recreation
Oak Creek	11030013	26	Secondary Contact Recreation
Salt Creek	11030013	22	Primary Contact Recreation
Spring Creek	11030013		Primary Contact Recreation
Spring Creek	11030013		Primary Contact Recreation
Spring Creek	11030013		Primary Contact Recreation
Spring Creek	11030013	34	Primary Contact Recreation
Spring Creek	11030013	37	Primary Contact Recreation
Winser Creek	11030013	32	Primary Contact Recreation
	in: North Fork N		
Crow Creek	11030014		Primary Contact Recreation
Dooleyville Creek	11030014		Primary Contact Recreation
Goose Creek	11030014		Primary Contact Recreation
Ninnescah River, North Fork	11030014		Primary Contact Recreation
Ninnescah River, North Fork	11030014	5	Primary Contact Recreation
Ninnescah River, North Fork	11030014	6	Primary Contact Recreation
Red Rock Creek	11030014		Primary Contact Recreation
Rock Creek	11030014		Primary Contact Recreation
			,
Silver Creek	11030014		Primary Contact Recreation
Spring Creek	11030014		Primary Contact Recreation
Wolf Creek	11030014	9	Primary Contact Recreation
Subbas	in: South Fork N	innescah	
Coon Creek	11030015	9	Primary Contact Recreation
Coon Creek	11030015		Primary Contact Recreation
Hunter Creek	11030015		Primary Contact Recreation
Mead Creek	11030015		Primary Contact Recreation
Mod Creek	11030015		Primary Contact Recreation
Natrona Creek	11030015	K38	Primary Contact Recreation
Negro Creek	11030015		Primary Contact Recreation
Nester Creek	11030015		Primary Contact Recreation
Ninnescah River, West Branch South Fork	11030015		Primary Contact Recreation
			Primary Contact Recreation
Painter Creek	11030015		•
Pat Creek	11030015		Primary Contact Recreation
Petyt Creek	11030015		Primary Contact Recreation
Sand Creek	11030015	18	Primary Contact Recreation
F	<del>1</del>	<del>i</del>	<del>                                       </del>

Spring Crook	I 11020015	olDrim	ary Contact Recreation
Spring Creek Wild Run Creek	11030015 11030015		ary Contact Recreation ary Contact Recreation
	ubbasin: Ninnes		ary contact recreation
Afton Creek	11030016		ary Contact Recreation
Clearwater Creek	11030016		ary Contact Recreation
Clearwater Creek	11030016		ary Contact Recreation
Dry Creek	11030016		ary Contact Recreation
Elm Creek	11030016		ary Contact Recreation
Garvey Creek	11030016		ary Contact Recreation
Sand Creek	11030016		ary Contact Recreation
Silver Creek	11030016		ary Contact Recreation
Spring Creek	11030016 11030016		ary Contact Recreation ary Contact Recreation
Spring Creek Turtle Creek	11030016		ary Contact Recreation
	Subbasin: Kaw La		ary Contact Necreation
Blue Branch	11060001		ary Contact Recreation
Bullington Creek	11060001		ary Contact Recreation
Cedar Creek	11060001		ary Contact Recreation
Chilocco Creek	11060001	19 Prim	ary Contact Recreation
Crabb Creek	11060001		ary Contact Recreation
Ferguson Creek	11060001		ary Contact Recreation
Franklin Creek	11060001		ary Contact Recreation
Gardners Branch	11060001		ary Contact Recreation
Goose Creek	11060001		ary Contact Recreation
Myers Creek	11060001		ary Contact Recreation
Otter Creek	11060001		ary Contact Recreation
Pebble Creek	11060001		ary Contact Recreation
Plum Creek	11060001		ary Contact Recreation
Riley Creek School Creek	11060001 11060001		ary Contact Recreation ary Contact Recreation
Shellrock Creek	11060001		ary Contact Recreation ary Contact Recreation
Silver Creek	11060001		ary Contact Recreation
Snake Creek	11060001		ary Contact Recreation
Spring Creek	11060001		ary Contact Recreation
Turkey Creek	11060001		ary Contact Recreation
Wagoner Creek	11060001		ary Contact Recreation
<u> </u>			<u> </u>
[ Subbasir	: Upper Salt Forl	Arkansas	
Subbasir Ash Creek	1: Upper Salt Forl 11060002		ary Contact Recreation
		20 Prim	ary Contact Recreation ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek	11060002	20 Prim 5 Prim 28 Prim	ary Contact Recreation ary Contact Recreation
Ash Creek Big Sandy Creek	11060002 11060002 11060002 11060002	20 Prim 5 Prim 28 Prim 22 Prim	ary Contact Recreation ary Contact Recreation ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek	11060002 11060002 11060002 11060002 11060002	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek	11060002 11060002 11060002 11060002 11060002	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 9 Prim	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 9 Prim 21 Prim 21 Prim	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Mustang Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 9 Prim 21 Prim 31 Prim	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 9 Prim 21 Prim 31 Prim 27 Prim	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002	20 Prim 5 Prim 7 Prim 22 Prim 22 Prim 23 Prim 9 Prim 21 Prim 31 Prim 27 Prim 16 Prim	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002	20 Prim 5 Prim 7 Prim 22 Prim 22 Prim 23 Prim 9 Prim 21 Prim 31 Prim 27 Prim 16 Prim 24 Prim 24 Prim	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002	20 Prim 5 Prim 7 Prim 22 Prim 22 Prim 23 Prim 9 Prim 21 Prim 21 Prim 31 Prim 27 Prim 16 Prim 24 Prim 12 Prim	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002	20 Prim 5 Prim 7 Prim 22 Prim 22 Prim 23 Prim 9 Prim 21 Prim 31 Prim 27 Prim 16 Prim 24 Prim 12 Prim 17 Prim	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002	20 Prim 5 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 9 Prim 21 Prim 31 Prim 27 Prim 16 Prim 12 Prim 17 Prim	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002	20 Prim 5 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 9 Prim 21 Prim 31 Prim 27 Prim 16 Prim 12 Prim 17 Prim .odge	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek Sub	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002	20 Prim 5 Prim 5 Prim 22 Prim 22 Prim 23 Prim 9 Prim 21 Prim 31 Prim 27 Prim 16 Prim 12 Prim 17 Prim 22 Prim 31 Prim 31 Prim 32 Prim 33 Prim 34 Prim 45 Prim 46 Prim 47 Prim 47 Prim 50 Prim 5	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek Antelope Creek Antelope Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003	20 Prim 5 Prim 5 Prim 22 Prim 22 Prim 23 Prim 9 Prim 21 Prim 31 Prim 27 Prim 16 Prim 12 Prim 17 Prim 22 Prim 13 Seco	ary Contact Recreation andary Contact Recreation andary Contact Recreation andary Contact Recreation andary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek Antelope Creek Bear Creek Bear Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003	20 Prim 5 Prim 5 Prim 22 Prim 22 Prim 23 Prim 9 Prim 21 Prim 31 Prim 27 Prim 16 Prim 12 Prim 17 Prim 22 Prim 13 Seco	ary Contact Recreation and Contact Recreation and Contact Recreation and Contact Recreation and Contact Recreation ary Contact Recreation ary Contact Recreation ary Contact Recreation ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek Antelope Creek Bear Creek Bitter Creek Cedar Creek Cottonwood Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 5 Prim 22 Prim 22 Prim 23 Prim 9 Prim 21 Prim 31 Prim 27 Prim 16 Prim 17 Prim 17 Prim 18 Seco 20 Prim 16 Prim 17 Prim 17 Prim 18 Prim 19 Prim 11 Seco 20 Prim 16 Prim 17 Prim	ary Contact Recreation and Contact Recreation and Contact Recreation ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek Antelope Creek Bear Creek Bitter Creek Cedar Creek Crooked Creek Crooked Creek Crooked Creek Candan Creek Crooked Creek Crooked Creek Crooked Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 9 Prim 21 Prim 31 Prim 27 Prim 16 Prim 17 Prim 22 Prim 18 Seco 20 Prim 11 Prim 11 Prim	ary Contact Recreation and Contact Recreation ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek Antelope Creek Bear Creek Bitter Creek Cedar Creek Crooked Creek Litle Mule Creek Litle Mule Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 7 Prim 22 Prim 22 Prim 23 Prim 23 Prim 31 Prim 21 Prim 24 Prim 16 Prim 17 Prim 22 Prim 18 Seco 20 Prim 11 Prim 11 Prim 9 Prim 11 Prim 9 Prim	ary Contact Recreation and Contact Recreation ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek Antelope Creek Bear Creek Bitter Creek Cedar Creek Crooked Creek Litle Mule Creek Dry Creek Dry Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 29 Prim 21 Prim 31 Prim 27 Prim 16 Prim 17 Prim 22 Prim 18 Seco 20 Prim 11 Prim 9 Prim 21 Prim 22 Prim 23 Prim 24 Prim 25 Prim 26 Prim 27 Prim 27 Prim 28 Prim 29 Prim 29 Prim 20 Prim 20 Prim 21 Prim 21 Prim 21 Prim 22 Prim 23 Seco	ary Contact Recreation and Contact Recreation ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek Antelope Creek Bear Creek Bitter Creek Cedar Creek Crooked Creek Litle Mule Creek Dry Creek Elm Creek, East Branch South	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 5 Prim 22 Prim 22 Prim 23 Prim 9 Prim 21 Prim 31 Prim 27 Prim 16 Prim 12 Prim 17 Prim 18 Secc 20 Prim 11 Prim 9 Prim 11 Prim 9 Prim 11	ary Contact Recreation and Contact Recreation ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek Antelope Creek Bear Creek Bitter Creek Cedar Creek Crooked Creek Litle Mule Creek Dry Creek Elm Creek, East Branch South Elm Creek, North Branch	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 28 Prim 22 Prim 22 Prim 23 Prim 31 Prim 31 Prim 27 Prim 16 Prim 17 Prim 18 Secc 20 Prim 11 Prim 9 Prim 11 Prim 9 Prim 12 Prim 13 Secc 14 Secc 15 Prim 16 Prim 17 Prim 17 Prim 18 Secc 19 Prim 19 Prim 11 Prim 1	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek Antelope Creek Bear Creek Bitter Creek Cedar Creek Crooked Creek Litle Mule Creek Dry Creek Elm Creek, East Branch South Elm Creek, South Branch Elm Creek, South Branch	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 31 Prim 31 Prim 31 Prim 4 Prim 31 Prim 4 Prim 5 Prim 5 Prim 5 Prim 5 Prim 5 Prim 6 Prim 7 Prim 7 Prim 7 Prim 8 Prim 9 Prim 9 Prim 10 Prim 9 Prim 11 Prim 9 Prim 4 Prim 11 Prim 11 Prim 9 Prim 11 Prim 1	ary Contact Recreation and Contact Recreation ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek Antelope Creek Bear Creek Bitter Creek Cedar Creek Cottonwood Creek Litle Mule Creek Dry Creek Elm Creek, East Branch Elm Creek, South Branch Little Bear Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 31 Prim 31 Prim 27 Prim 16 Prim 12 Prim 17 Prim 22 Prim 18 Secc 20 Prim 11 Prim 9 Prim 11 Prim 9 Prim 21 Secc 10 Prim 11 Prim 9 Prim 11 Prim 9 Prim 11 Prim 9 Prim 11 P	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek  Antelope Creek Bear Creek Bear Creek Cottonwood Creek Crooked Creek Litle Mule Creek Dry Creek Elm Creek, South Branch Little Bear Creek Medicine Lodge River, North Branch	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 31 Prim 31 Prim 27 Prim 16 Prim 12 Prim 17 Prim 22 Prim 18 Seco 20 Prim 11 Prim 19 Prim 11 Prim 11 Prim 11 Prim 12 Prim 15 Prim 16 Prim 17 Prim 18 Seco 18 Seco 18 Seco 19 Prim 11 Prim 12 Seco 10 Prim 14 Prim 15 Prim 19 Prim	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek  Antelope Creek Bear Creek Bear Creek Cottonwood Creek Crooked Creek Litle Mule Creek Litle Mule Creek Elm Creek, South Branch Little Bear Creek Medicine Lodge River, North Branch Mulberry Creek Medicine Lodge River, North Branch Mulberry Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 31 Prim 31 Prim 27 Prim 16 Prim 24 Prim 12 Prim 31 Secc 20 Prim 11 Prim 9 Prim 21 Prim 22 Prim 23 Prim 4 Prim 24 Prim 25 Prim 26 Prim 27 Prim 27 Prim 28 Prim 29 Prim 29 Prim 20 Prim 20 Prim 21 Secc 20 Prim 21 Prim 21 Prim 22 Prim 23 Secc 24 Prim 25 Prim 26 Prim 27 Prim 28 Secc 29 Prim 29 Prim 21 Secc 20 Prim 21 Secc 20 Prim 21 Secc 20 Prim 21 Secc 21 Prim 22 Secc 22 Prim 23 Secc 24 Prim 25 Prim 26 Secc 27 Prim 28 Secc 28 Prim 29 Prim 29 Prim 21 Secc 20 Prim 21 Secc 20 Prim 21 Secc 21 Prim 22 Secc 22 Prim 23 Secc 24 Prim 24 Secc 25 Prim 26 Prim 27 Secc 26 Prim 27 Secc 27 Prim 28 Secc 28 Prim 29 Prim 21 Secc 20 Prim 21 Secc 21 Prim 22 Secc 22 Prim 23 Secc 24 Prim 24 Secc 25 Prim 26 Prim 27 Prim 27 Prim 28 Prim 29 Prim 29 Prim 20 Prim 20 Prim 20 Prim 21 Prim 22 Prim 23 Prim 24 Secc 24 Prim 24 Secc 25 Prim 26 Prim 27 Prim 27 Prim 28 Prim 29 Prim 29 Prim 20 Prim 20 Prim 20 Prim 20 Prim 20 Prim 21 Prim 22 Prim 22 Prim 23 Prim 24 Prim 24 Prim 25 Prim 26 Prim 27 Prim 27 Prim 28 Prim 29 Prim 20 Prim 20 Prim 20 Prim 20 Prim 20 Prim 21 Prim 21 Prim 22 Prim 22 Prim 23 Prim 24 Prim 24 Prim 24 Prim 24 Prim 25 Prim 26 Prim 27 Prim 28 Prim 29 Prim 20 Prim 21 Prim 22 Prim 22 Prim 23 Prim 24 Prim 25 Prim 26 Prim 26 Prim 27 Prim 28 Prim 2	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek  Antelope Creek Bear Creek Bear Creek Cottonwood Creek Cittle Mule Creek Little Mule Creek Elm Creek, South Branch Elm Creek, South Branch Little Bear Creek Medicine Lodge River, North Branch Mulberry Creek Otter Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 31 Prim 31 Prim 27 Prim 16 Prim 24 Prim 12 Prim 31 Secc 20 Prim 31 Secc 31 Prim 4 Prim 4 Prim 4 Prim 4 Prim 5 Prim 4 Prim 5 Prim 5 Prim 6 Prim 7 Prim 7 Prim 8 Prim 9 Prim 9 Prim 11 Prim 9 Prim 12 Secc 14 Prim 15 Prim 16 Prim 17 Prim 18 Secc 19 Prim 19 Pri	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek Antelope Creek Bear Creek Bitter Creek Cottonwood Creek Crooked Creek Litle Mule Creek Dry Creek Elm Creek, Sast Branch Elm Creek, North Branch Little Bear Creek Medicine Lodge River, North Branch Mulberry Creek Otter Creek Cotter Creek Cotter Creek Medicine Lodge River, North Branch Mulberry Creek Otter Creek Cotter Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 31 Prim 31 Prim 31 Prim 31 Prim 32 Prim 33 Seccion 35 Prim 36 Prim 37 Prim 38 Seccion 38 Seccion 39 Prim 31 Prim 31 Prim 32 Seccion 34 Prim 35 Prim 36 Seccion 36 Prim 37 Prim 38 Seccion 38 Seccion 39 Prim 39 Prim 30 Prim 30 Prim 30 Prim 31 Prim 31 Prim 32 Seccion 32 Seccion 33 Seccion 34 Prim 35 Prim 35 Seccion 35 Prim 35 Seccion 36 Prim 37 Seccion 37 Seccion 38 Seccion 38 Seccion 38 Seccion 39 Seccion 30 Seccion 30 Seccion 30 Seccion 30 Seccion 30 Seccion 31 Seccion 31 Seccion 32 Seccion 33 Seccion 34 Prim 35 Seccion 35	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek  Antelope Creek Bear Creek Bear Creek Cottonwood Creek Cittle Mule Creek Little Mule Creek Elm Creek, South Branch Elm Creek, South Branch Little Bear Creek Medicine Lodge River, North Branch Mulberry Creek Otter Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 31 Prim 31 Prim 31 Prim 31 Prim 32 Prim 31 Prim 32 Prim 32 Prim 33 Prim 34 Prim 35 Prim 36 Prim 37 Prim 38 Secco 30 Prim 31 Prim 31 Prim 31 Secco 31 Prim 31 Prim 4 Prim 4 Prim 5 Prim 4 Prim 5 Prim 5 Prim 5 Prim 7 Prim 7 Prim 7 Prim 8 Secco 8 Prim 9 Prim 11 Prim 9 Prim 12 Secco 10 Prim 14 Prim 15 Prim 17 Prim 17 Prim	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Mustang Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek Antelope Creek Bear Creek Bitter Creek Cottonwood Creek Crooked Creek Litle Mule Creek Dry Creek Elm Creek, East Branch South Elm Creek, South Branch Little Bear Creek Medicine Lodge River, North Branch Mulberry Creek Otter Creek Cut Creek Cut Creek Medicine Lodge River, North Branch Mulberry Creek Cut Creek Cut Creek Cut Creek Cut Creek Medicine Lodge River, North Branch Mulberry Creek Cuter Creek Puckett Creek Sand Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 31 Prim 31 Prim 31 Prim 31 Prim 32 Prim 31 Prim 32 Prim 32 Prim 33 Prim 34 Prim 35 Prim 36 Prim 37 Prim 38 Secc 30 Prim 31 Prim 31 Prim 31 Secc 31 Prim 32 Prim 33 Secc 30 Prim 40 Prim 41 Prim 41 Prim 42 Prim 42 Prim 43 Secc 44 Prim 44 Prim 45 Prim 45 Prim 46 Prim 47 Prim 48 Prim 49 Prim 49 Prim 40 Prim 40 Prim 40 Prim 41 Prim 41 Prim 42 Secc 43 Prim 44 Prim 45 Prim 45 Prim 46 Prim 47 Prim 48 Secc 48 Secc 49 Prim 49 Prim 40 Prim 40 Prim 40 Prim 41 Prim 42 Secc 41 Prim 42 Secc 41 Prim 43 Prim 44 Prim 45 Prim 45 Prim 46 Prim 47 Prim 48 Secci 49 Prim 40 Prim 40 Prim 40 Prim 40 Prim 41 Prim 42 Secci 42 Secci 43 Prim 44 Prim 45 Secci 46 Secci 47 Prim 47 Pri	ary Contact Recreation
Ash Creek Big Sandy Creek Cave Creek Deadman Creek Dog Creek Hackberry Creek Indian Creek Inman Creek Inman Creek Inman Creek Mustang Creek Nescatunga Creek, East Branch Red Creek Spring Creek Wildcat Creek Yellowstone Creek Bear Creek Bear Creek Bear Creek Cottonwood Creek Crooked Creek Little Mule Creek Elm Creek, South Branch Elm Creek, South Branch Little Bear Creek Medicine Lodge River, North Branch Mulberry Creek Cutcreek Cutcreek Cutcreek Cotter Creek Cotter Creek Cotter Creek Dittle Bear Creek Medicine Lodge River, North Branch Mulberry Creek Cutcreek Soldier Creek Soldier Creek	11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060002 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003 11060003	20 Prim 5 Prim 28 Prim 22 Prim 29 Prim 23 Prim 31 Prim 31 Prim 31 Prim 31 Prim 32 Prim 31 Prim 32 Prim 32 Prim 33 Prim 34 Prim 37 Prim 38 Secc 30 Prim 31 Secc 30 Prim 4 Prim 4 Prim 4 Prim 5 Prim 4 Prim 5 Prim 4 Prim 5 Prim 5 Prim 7 Prim 8 Secc 8 Prim 9 Prim 9 Prim 9 Prim 10 Prim 11 Prim 12 Secc 110 Prim 12 Secc 12 Secc 13 Prim 14 Prim 15 Prim 17 Prim 18 Secc 18 Secc 18 Secc 19 Secc 19 Secc 10 Prim 19 Prim	ary Contact Recreation

Wilson Slough	11060003	23 Primary Contact Recreation
	: Lower Salt Forl	
Camp Creek Cooper Creek	11060004 11060004	, , , , , , , , , , , , , , , , , , , ,
Crooked Creek	11060004	,
Little Sandy Creek	11060004	· · · · · · · · · · · · · · · · · · ·
Little Sandy Creek, East Branch	11060004	65 Primary Contact Recreation
Osage Creek	11060004	,
Plum Creek	11060004	,
Pond Creek Rush Creek	11060004 11060004	,
Salty Creek	11060004	,
Sandy Creek	11060004	
Sandy Creek, West	11060004	·
Spring Creek	11060004	·
Unnamed Stream	11060004	,
	ubbasin: Chikas	
Allen Creek Baehr Creek	11060005 11060005	,
Beaver Creek	11060005	,
Beaver Creek	11060005	·
Big Spring Creek	11060005	,
Bitter Creek	11060005	4 Primary Contact Recreation
Bitter Creek, East	11060005	,
Blue Stem Creek	11060005	,
Chicken Creek	11060005	,
Copper Creek Dry Creek	11060005 11060005	, -
Duck Creek	11060005	· · · · · · · · · · · · · · · · · · ·
Fall Creek	11060005	,
Fall Creek, East Branch	11060005	27 Primary Contact Recreation
Goose Creek	11060005	,
Kemp Creek	11060005	
Long Creek	11060005	·
Meridian Creek Prairie Creek	11060005 11060005	,
Prairie Creek, East	11060005	·
Prairie Creek, West	11060005	·
Red Creek	11060005	·
Rock Creek	11060005	
Rodgers Branch	11060005	·
Rose Bud Creek	11060005 11060005	, -
Rush Creek Sand Creek	11060005	, , ,
Sand Creek, East	11060005	,
Sandy Creek	11060005	,
Shoo Fly Creek, East	11060005	19 Secondary Contact Recreation
Shore Creek	11060005	,
Silver Creek	11060005	,
Skunk Creek Spring Branch	11060005 11060005	,
Wild Horse Creek	11060005	,
Wildcat Creek	11060005	
Bas	in: Marais Des Cy	ygnes
Subbasin	: Upper Marais D	
Appanoose Creek	10290101	,
Appanoose Creek, East	10290101	,
Batch Creek Blue Creek	10290101 10290101	· · · · · · · · · · · · · · · · · · ·
Bradshaw Creek	10290101	
Cedar Creek	10290101	·
Cherry Creek	10290101	·
Chicken Creek	10290101	,
Chicken Creek	10290101	,
Coal Creek	10290101	·
Dry Creek Dry Creek	10290101 10290101	,
Duck Creek	10290101	,
Eightmile Creek	10290101	
Frog Creek	10290101	,
Hard Fish Creek	10290101	
Hickory Creek	10290101	,
Hill Creek	10290101	71 Primary Contact Recreation

	CCR — Code oi re	sucial Negulations	5
lantha Creek	10290101	62 F	Primary Contact Recreation
Jersey Creek	10290101	76 F	Primary Contact Recreation
Kenoma Creek	10290101	64 [	Primary Contact Recreation
Little Rock Creek	10290101	73 [	Primary Contact Recreation
Long Creek	10290101	K36	Primary Contact Recreation
Locust Creek	10290101	69	Primary Contact Recreation
Middle Creek	10290101		Primary Contact Recreation
Mosquito Creek	10290101		Primary Contact Recreation
Mud Creek	10290101		Primary Contact Recreation
			,
Mud Creek	10290101		Primary Contact Recreation
Mud Creek	10290101		Primary Contact Recreation
Mute Creek	10290101		Primary Contact Recreation
Ottawa Creek	10290101		Primary Contact Recreation
Plum Creek	10290101	2	Primary Contact Recreation
Plum Creek	10290101	79 l	Primary Contact Recreation
Popcorn Creek	10290101	87	Primary Contact Recreation
Pottawatomie Creek, North Fork	10290101	65	Primary Contact Recreation
Pottawatomie Creek, South Fork	10290101		Primary Contact Recreation
Rock Creek	10290101		Primary Contact Recreation
Rock Creek	10290101		Primary Contact Recreation
			•
Sac Branch, South Fork	10290101		Secondary Contact Recreation
Sac Creek	10290101		Primary Contact Recreation
Salt Creek	10290101		Primary Contact Recreation
Sand Creek	10290101		Primary Contact Recreation
Smith Creek	10290101	77	Primary Contact Recreation
Spring Creek	10290101	84 [	Primary Contact Recreation
Switzler Creek	10290101		Primary Contact Recreation
Tauy Creek	10290101	11	Primary Contact Recreation
Tauy Creek, West Fork	10290101		Primary Contact Recreation
Tegua Creek	10290101		Primary Contact Recreation
Tequa Creek, East Branch			Primary Contact Recreation
	10290101		
Tequa Creek, South Branch	10290101		Primary Contact Recreation
Thomas Creek	10290101		Secondary Contact Recreation
Turkey Creek	10290101		Primary Contact Recreation
Turkey Creek	10290101	6	Primary Contact Recreation
Unnamed Stream	10290101	5 [	Primary Contact Recreation
Walnut Creek	10290101	90	Primary Contact Recreation
West Fork Eight Mile Creek	10290101	88	Primary Contact Recreation
Willow Creek	10290101		Primary Contact Recreation
Wilson Creek	10290101		Primary Contact Recreation
Wolf Creek	10290101		Primary Contact Recreation
	: Lower Marais Des		Timary Contact Necreation
			Driver of Contact Decreation
Buck Creek	10290102		Primary Contact Recreation
Bull Creek	10290102		Secondary Contact Recreation
Davis Creek	10290102		Primary Contact Recreation
Dorsey Creek	10290102	22	Primary Contact Recreation
Elm Branch	10290102	48	Primary Contact Recreation
Elm Branch	10290102	53 [	Primary Contact Recreation
Elm Creek	10290102	40	Primary Contact Recreation
Hushpuckney Creek	10290102		
Jake Branch		3/1	Primary Contact Recreation
DAKE DIAIRUI			Primary Contact Recreation Secondary Contact Recreation
	10290102	54	Secondary Contact Recreation
Jordan Branch	10290102 10290102	54 S	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek	10290102 10290102 10290102	54 s 36 r 51 r	Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek	10290102 10290102 10290102 10290102	54 36 51 33	Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork	10290102 10290102 10290102 10290102 10290102	54 36 51 33 43	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek	10290102 10290102 10290102 10290102 10290102 10290102	54 36 51 33 43 26	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek	10290102 10290102 10290102 10290102 10290102 10290102 10290102	54: 36  51  33  43  26  13	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek	10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102	54: 36: 51: 33: 43: 26: 13: 30:	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek	10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102	54: 36  51  33  43  26  13  30  35	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek	10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102	54: 36  51  33  43  26  13  30  35	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek Mound Creek	10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102	54: 36  51  33  43  26  13  30  35  41	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek Mound Creek Richland Creek	10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102	54: 36  51  33  43  26  13  30  35  41  27	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek Mound Creek Richland Creek Rock Creek Smith Branch	10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102	54: 36  51  33  43  26  13  30  35  41  27  47	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek Mound Creek Richland Creek Rock Creek Smith Branch Spring Creek	10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102	54: 36: 51: 33: 43: 26: 13: 30: 35: 41: 27: 47: 50:	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek Mound Creek Richland Creek Rock Creek Smith Branch Spring Creek Sugar Creek	10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102	54: 36  51  33  43  26  13  30  35  41  27  47  50  42	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek Mound Creek Richland Creek Rock Creek Smith Branch Spring Creek Sugar Creek Turkey Creek	10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102	54: 36  37  38  38  48  48  26  13  30  35  41  27  47  50  42  45	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek Mound Creek Richland Creek Rock Creek Smith Branch Spring Creek Sugar Creek Turkey Creek Walnut Creek Walnut Creek	10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102	54: 36  37  38  38  48  48  26  13  30  35  41  27  47  50  42  45	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek Mound Creek Richland Creek Rock Creek Smith Branch Spring Creek Sugar Creek Turkey Creek Walnut Creek Walnut Creek Walnut Creek	10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102	54: 36  37  38  38  38  48  26  13  30  35  41  27  47  50  42  45  14  34	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek Mound Creek Richland Creek Rock Creek Smith Branch Spring Creek Sugar Creek Turkey Creek Walnut Creek Walnut Creek Walnut Creek Walnut Creek	10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102 10290102	54: 36  36  51  33  43  26  13  30  35  41  27  47  50  42  45  14  34  52	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek Mound Creek Richland Creek Rock Creek Smith Branch Spring Creek Sugar Creek Turkey Creek Walnut Creek Walnut Creek Walnut Creek Walnut Creek Walnut Creek Wea Creek, North	10290102 10290102	54: 36  36  51  33  43  26  13  30  35  41  27  47  50  42  45  14  34  52  21	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek Mound Creek Richland Creek Rock Creek Smith Branch Spring Creek Sugar Creek Turkey Creek Walnut Creek Walnut Creek Walnut Creek Walnut Creek Walnut Creek Walnut Creek Wea Creek, North Wea Creek, South	10290102 10290102	54: 36i 36i 51i 33; 43i 43i 26i 13i 30i 35i 41i 27i 47i 50i 42i 45i 14i 34i 52i 21i 18i	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek Mound Creek Richland Creek Rock Creek Smith Branch Spring Creek Sugar Creek Turkey Creek Walnut Creek	10290102 10290102	54: 36i 36i 51i 333i 43i 43i 26i 13i 30i 35i 41i 27i 47i 50i 42i 45i 14i 34i 52i 21i 18i	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek Mound Creek Richland Creek Rock Creek Smith Branch Spring Creek Sugar Creek Turkey Creek Walnut Creek	10290102 10290102	54: 36i 36i 51i 333i 43i 43i 26i 13i 30i 35i 41i 27i 47i 50i 42i 45i 14i 34i 52i 21i 18i	Secondary Contact Recreation Primary Contact Recreation
Jordan Branch Little Bull Creek Little Sugar Creek Little Sugar Creek, North Fork Martin Creek Middle Creek Middle Creek Mound Creek Richland Creek Rock Creek Smith Branch Spring Creek Sugar Creek Turkey Creek Walnut Creek Walnut Creek Walnut Creek Walnut Creek Walnut Creek Walnut Creek Wea Creek, North Wea Creek, South Wea Creek, South	10290102 10290102	54: 36i 36i 51i 333i 43i 43i 26i 13i 30i 35i 41i 27i 47i 50i 42i 45i 14i 34i 52i 21i 18i 19i 20i	Secondary Contact Recreation Primary Contact Recreation

0/29/2019	eCFR — Code of	Federal Regulation	S
Clever Creek	10290103	J 7	Primary Contact Recreation
Elk Creek	10290103		Primary Contact Recreation
Fish Creek	10290103		Primary Contact Recreation
		_	,
Indian Creek	10290103		Primary Contact Recreation
Irish Creek	10290103		Primary Contact Recreation
Laberdie Creek, East	10290103	13	Primary Contact Recreation
Limestone Creek	10290103	5	Primary Contact Recreation
Lost Creek	10290103	10	Primary Contact Recreation
Reagan Branch	10290103	6	Primary Contact Recreation
9	ubbasin: Marmat		Timary Contact Noorcation
Buck Run	10290104		Drimary Contact Boardation
			Primary Contact Recreation
Bunion Creek	10290104		Primary Contact Recreation
Cedar Creek	10290104		Primary Contact Recreation
Drywood Creek, Moores Branch	10290104	17	Primary Contact Recreation
Drywood Creek, West Fork	10290104	19	Primary Contact Recreation
Elm Creek	10290104	15	Secondary Contact Recreation
Hinton Creek	10290104		Primary Contact Recreation
Lath Branch	10290104		Primary Contact Recreation
			·
Little Mill Creek	10290104		Primary Contact Recreation
Mill Creek	10290104		Primary Contact Recreation
Owl Creek	10290104	45	Primary Contact Recreation
Paint Creek	10290104	13	Primary Contact Recreation
Paint Creek	10290104	14	Primary Contact Recreation
Prong Creek	10290104		Secondary Contact Recreation
Robinson Branch	10290104		Primary Contact Recreation
			•
Shiloh Creek	10290104		Primary Contact Recreation
Sweet Branch	10290104		Primary Contact Recreation
Tennyson Creek	10290104	31	Primary Contact Recreation
Turkey Creek	10290104	33	Primary Contact Recreation
Walnut Creek	10290104	32	Primary Contact Recreation
Walnut Creek	10290104		Primary Contact Recreation
Wolfpen Creek	10290104		Primary Contact Recreation
'			· · · · · · · · · · · · · · · · · · ·
Wolverine Creek	10290104		Primary Contact Recreation
Su	bbasin: South G		
Harless Creek	10290108	67	Primary Contact Recreation
Poney Creek	10290108	48	Primary Contact Recreation
	Basin: Missouri		·
S	ubbasin: Tarkio-V	Volf	
Cold Ryan Branch	10240005		Primary Contact Recreation
Coon Creek	10240005		Primary Contact Recreation
			•
Halling Creek	10240005		Primary Contact Recreation
Mill Creek	10240005		Primary Contact Recreation
Rittenhouse Branch	10240005	69	Primary Contact Recreation
Spring Creek	10240005	65	Primary Contact Recreation
Striker Branch	10240005		Primary Contact Recreation
Wolf River, Middle Fork	10240005		Primary Contact Recreation
Wolf River, North Fork	10240005		Primary Contact Recreation
			·
Wolf River, South Fork	10240005		Primary Contact Recreation
Unnamed Stream	10240005		Primary Contact Recreation
Subbasi	n: South Fork Bi	g Nemaha	
Burger Creek	10240007	24	Secondary Contact Recreation
Deer Creek	10240007	18	Primary Contact Recreation
Fisher Creek			
Illinois Creek	10240007	28	Primary Contact Recreation
	10240007		Primary Contact Recreation
Rattlesnake Creek	10240007	30	Primary Contact Recreation
Rattlesnake Creek	10240007 10240007	30 27	Primary Contact Recreation Primary Contact Recreation
Rock Creek	10240007 10240007 10240007	30 27 20	Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Rock Creek Tennessee Creek	10240007 10240007 10240007 10240007	30 27 20 29	Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Rock Creek	10240007 10240007 10240007	30 27 20 29	Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Rock Creek Tennessee Creek	10240007 10240007 10240007 10240007	30 27 20 29 4	Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek	10240007 10240007 10240007 10240007 10240007	30 27 20 29 4 5	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek	10240007 10240007 10240007 10240007 10240007 10240007	30 27 20 29 4 5 23	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek Wildcat Creek	10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007	30 27 20 29 4 5 23 23	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek Wildcat Creek Wolf Pen Creek	10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007	30 27 20 29 4 5 23 22 25	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek Wildcat Creek Wolf Pen Creek	10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007	30 27 20 29 4 5 23 22 25	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek Wildcat Creek Wolf Pen Creek  Noharts Creek	10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240008	30 27 20 29 4 5 23 22 25 <b>aha</b>	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek Wildcat Creek Wolf Pen Creek	10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007	30 27 20 29 4 5 23 22 25 <b>aha</b>	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek Wildcat Creek Wolf Pen Creek  Noharts Creek	10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240008	30 27 20 29 4 5 23 22 25 <b>aha</b>	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek Wildcat Creek Wolf Pen Creek  Noharts Creek Pedee Creek	10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240008 10240008	30 27 20 29 4 5 23 22 25 <b>aha</b> 41	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek Wildcat Creek Wolf Pen Creek  Su Noharts Creek Pedee Creek Pony Creek Roys Creek	10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240008 10240008 10240008 10240008	30 27 20 29 4 5 23 22 25 <b>aha</b> 41 38	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek Wildcat Creek Wolf Pen Creek  Su Noharts Creek Pedee Creek Pony Creek Roys Creek Subbas	10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240008 10240008 10240008 10240008	30 27 20 29 4 5 23 22 25 aha 41 38 40 e—Sugar	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek Wildcat Creek Wolf Pen Creek  Su Noharts Creek Pedee Creek Pony Creek Roys Creek Subbas Brush Creek	10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240008 10240008 10240008 10240008 102400011	30 27 20 29 4 5 23 22 25 aha 41 38 40 e—Sugar	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek Wildcat Creek Wolf Pen Creek  Su Noharts Creek Pedee Creek Pony Creek Roys Creek Subbas Brush Creek Deer Creek	10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240008 10240008 10240008 10240011 10240011	30 27 20 29 4 5 23 22 25 aha 41 38 40 e—Sugar	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek Wildcat Creek Wolf Pen Creek  Noharts Creek Pedee Creek Pony Creek Roys Creek Subbas Brush Creek Deer Creek Fivemile Creek	10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240008 10240008 10240008 10240011 10240011	30 27 20 29 4 5 23 22 25 aha 41 38 40 e—Sugar 26 32	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek Wildcat Creek Wolf Pen Creek  Su Noharts Creek Pedee Creek Pony Creek Roys Creek Subbas Brush Creek Deer Creek	10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240008 10240008 10240008 10240011 10240011	30 27 20 29 4 5 23 22 25 aha 41 38 40 e—Sugar 26 32	Primary Contact Recreation
Rock Creek Tennessee Creek Turkey Creek Turkey Creek Wildcat Creek Wildcat Creek Wolf Pen Creek Su Noharts Creek Pedee Creek Pony Creek Roys Creek Subbas Brush Creek Deer Creek Fivemile Creek	10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240007 10240008 10240008 10240008 10240011 10240011	30 27 20 29 4 5 23 22 25 25 aha 41 38 40 e—Sugar 26 32	Primary Contact Recreation

Jour Creat	•	l aa		Contact Decreation
Owl Creek	10240011			Contact Recreation
Rock Creek	10240011			Contact Recreation
Salt Creek	10240011			Contact Recreation
Smith Creek Three Mile Creek	10240011 10240011			Contact Recreation  Contact Recreation
Walnut Creek	10240011		,	Contact Recreation
Walnut Creek	10240011			Contact Recreation
	10240011		,	Contact Recreation
White Clay Creek White Clay Creek	10240011		,	Contact Recreation
Whiskey Creek	10240011			Contact Recreation
Whiskey Creek	10240011		,	Contact Recreation
	: Lower Missouri		i ililiai y	Contact (Corcation
Brush Creek	10300101		Primary	Contact Recreation
Camp Branch	10300101		,	Contact Recreation
Coffee Creek	10300101		,	Contact Recreation
Dyke Branch	10300101		,	Contact Recreation
Indian Creek	10300101			Contact Recreation
Negro Creek	10300101			Contact Recreation
Tomahawk Creek	10300101		,	Contact Recreation
Tomanawk Creek	Basin: Neosho	53	Pililary	Contact Recreation
Subba		dwatoro		
	sin: Neosho Hea		Drimon	Contact Poercetion
Allen Creek	11070201		,	Contact Recreation
Badger Creek	11070201		,	Contact Recreation
Big John Creek	11070201			Contact Recreation  Contact Recreation
Bluff Creek	11070201			
Crooked Creek	11070201			Contact Recreation
Dows Creek	11070201		,	Contact Recreation
Dows Creek	11070201			Contact Recreation
Eagle Creek	11070201			Contact Recreation
Eagle Creek, South	11070201		,	Contact Recreation
East Creek	11070201		,	Contact Recreation
Elm Creek	11070201		,	Contact Recreation
Fourmile Creek	11070201			Contact Recreation
Fourmile Creek	11070201			Contact Recreation
Haun Creek	11070201		_	Contact Recreation
Horse Creek	11070201			Contact Recreation
Kahola Creek	11070201			Contact Recreation
Lairds Creek	11070201		_	Contact Recreation
Lanos Creek	11070201			Contact Recreation
Lebo Creek	11070201	_	,	Contact Recreation
Munkers Creek, East Branch	11070201		,	Contact Recreation
Munkers Creek, Middle Branch	11070201	32	Primary	Contact Recreation
Neosho River, East Fork	11070201	18	Primary	Contact Recreation
Neosho River, West Fork	11070201	28	Primary	Contact Recreation
Parkers Creek	11070201	27	Primary	Contact Recreation
Plum Creek	11070201	50	Primary	Contact Recreation
Plumb Creek	11070201	49	Primary	Contact Recreation
Rock Creek	11070201	7	Primary	Contact Recreation
Rock Creek	11070201	9	Primary	Contact Recreation
Rock Creek, East Branch	11070201	34	Primary	Contact Recreation
Spring Creek	11070201	40	Primary	Contact Recreation
Stillman Creek	11070201	44	Primary	Contact Recreation
Taylor Creek	11070201	46	Primary	Contact Recreation
Walker Branch	11070201	42	Primary	Contact Recreation
Wolf Creek	11070201	41	Primary	Contact Recreation
Wrights Creek	11070201	38	Primary	Contact Recreation
Subba	asin: Upper Cotto			
Antelope Creek	11070202		Primary	Contact Recreation
Bills Creek	11070202			Contact Recreation
Bruno Creek	11070202		,	Contact Recreation
Catlin Creek	11070202			Contact Recreation
Clear Creek	11070202			Contact Recreation
Clear Creek, East Branch	11070202			Contact Recreation
Coon Creek	11070202		_	Contact Recreation
Cottonwood River, South	11070202			Contact Recreation
Cottonwood River, South	11070202		_	Contact Recreation
Doyle Creek	11070202		_	Contact Recreation
French Creek	11070202			Contact Recreation
Mud Creek	11070202			Contact Recreation
Perry Creek	11070202			Contact Recreation
Spring Branch	11070202		_	Contact Recreation
Spring Greek	11070202		_	Contact Recreation
Spring Creek	11070202		,	Contact Recreation
Opining Oreek	110/0202	29	пппагу	Contact Necreation

Stony Brook	11070202	1 - 25	Primary Contact Recreation
Turkey Creek	11070202		Primary Contact Recreation
,	sin: Lower Cotto		a.y comact tooleane
Beaver Creek	11070203	29	Primary Contact Recreation
Bloody Creek	11070203	40	Primary Contact Recreation
Buck Creek	11070203		Primary Contact Recreation
Buckeye Creek	11070203		Primary Contact Recreation
Bull Creek	11070203		Primary Contact Recreation
Camp Creek	11070203		Primary Contact Recreation
Coal Creek	11070203		Primary Contact Recreation
Collett Creek Corn Creek	11070203 11070203		Primary Contact Recreation Primary Contact Recreation
Coyne Branch	11070203		Primary Contact Recreation
Crocker Creek	11070203		Primary Contact Recreation
Dodds Creek	11070203		Primary Contact Recreation
Fox Creek	11070203		Primary Contact Recreation
French Creek	11070203		Primary Contact Recreation
Gannon Creek	11070203		Primary Contact Recreation
Gould Creek	11070203		Primary Contact Recreation
Holmes Creek	11070203		Primary Contact Recreation
Jacob Creek	11070203		Primary Contact Recreation
Kirk Creek	11070203		Primary Contact Recreation
Little Cedar Creek	11070203		Primary Contact Recreation
Little Cedar Creek	11070203		Primary Contact Recreation
Mild and a half Crack	11070203		Primary Contact Recreation
Mile-and-a-half Creek  Moon Creek	11070203 11070203		Secondary Contact Recreation Primary Contact Recreation
Mulvane Creek	11070203		Primary Contact Recreation  Primary Contact Recreation
Peyton Creek	11070203		Primary Contact Recreation  Primary Contact Recreation
Phenis Creek	11070203		Primary Contact Recreation
Pickett Creek	11070203		Primary Contact Recreation
Prather Creek	11070203		Primary Contact Recreation
Rock Creek	11070203		Primary Contact Recreation
Schaffer Creek	11070203		Primary Contact Recreation
School Creek	11070203	16	Primary Contact Recreation
Sharpes Creek	11070203	38	Primary Contact Recreation
Silver Creek	11070203		Primary Contact Recreation
Spring Creek	11070203		Primary Contact Recreation
Stout Run	11070203		Primary Contact Recreation
Stribby Creek	11070203		Primary Contact Recreation
	basin: Upper Ne		Duimon, Contact Dographics
Badger Creek Big Creek, North	11070204 11070204		Primary Contact Recreation Primary Contact Recreation
Big Creek, South	11070204		Primary Contact Recreation
Bloody Run	11070204		Primary Contact Recreation
Carlyle Creek	11070204		Primary Contact Recreation
Charles Branch	11070204		
Cherry Creek	11070204	27	Primary Contact Recreation
John John John John John John John John	11070204		
Coal Creek		20	Primary Contact Recreation
·	11070204 11070204 11070204	20 4 48	Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek	11070204 11070204 11070204 11070204	20 4 48 44	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek	11070204 11070204 11070204 11070204 11070204	20 4 48 44 34	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek	11070204 11070204 11070204 11070204 11070204 11070204	20 4 48 44 34 29	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek	11070204 11070204 11070204 11070204 11070204 11070204 11070204	20 4 48 44 34 29	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek	11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204	20 4 48 44 34 29 12 49	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek	11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204	20 4 48 44 34 29 12 49	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek	11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204	20 4 48 44 34 29 12 49 26	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek Onion Creek	11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204	20 4 48 44 34 29 12 49 26 31	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek Onion Creek Owl Creek	11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204	20 4 48 44 34 29 12 49 26 31 24	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek Onion Creek Owl Creek Owl Creek	11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204	20 48 48 44 34 29 12 49 26 31 24 19	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek Onion Creek Owl Creek	11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204	20 48 48 44 34 29 12 49 26 31 24 19 21	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek Onion Creek Owl Creek Owl Creek Plum Creek	11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204	20 48 48 44 34 29 12 49 26 31 24 19 21 22	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek Onion Creek Owl Creek Owl Creek Plum Creek Rock Creek Rock Creek	11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204	20 48 48 44 34 29 12 49 26 31 24 19 21 22 7	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek Onion Creek Owl Creek Owl Creek Plum Creek Rock Creek Rock Creek Rock Creek	11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204	20 48 48 44 34 29 12 49 26 31 24 19 21 22 7 23	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek Onion Creek Owl Creek Owl Creek Plum Creek Rock Creek Rock Creek Rock Creek Rock Creek Rock Creek	11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204 11070204	20 48 48 44 34 29 12 49 26 31 24 19 21 22 7 23 15	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek Onion Creek Owl Creek Owl Creek Plum Creek Rock Creek Rock Creek Rock Creek Rock Creek School Creek	11070204 11070204	20 48 48 44 34 29 12 49 26 31 24 19 21 22 7 23 15 38 40	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek Onion Creek Owl Creek Owl Creek Plum Creek Rock Creek Rock Creek Rock Creek School Creek Scott Creek Slack Creek Spring Creek	11070204 11070204	20 48 48 44 34 29 12 49 26 31 24 19 21 22 7 23 15 38 40 30 46	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek Onion Creek Owl Creek Owl Creek Plum Creek Rock Creek Rock Creek Rock Creek School Creek Scott Creek Slack Creek Spring Creek Sutton Creek Sund Creek	11070204 11070204	20 48 48 444 34 29 12 49 26 31 24 19 21 22 7 23 15 38 40 30 46	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek Onion Creek Owl Creek Owl Creek Plum Creek Rock Creek Rock Creek Rock Creek School Creek School Creek Scott Creek Spring Creek Sutton Creek Turkey Branch	11070204 11070204	20 48 48 44 34 29 12 49 26 31 24 19 21 22 7 23 15 38 40 30 46 35 28	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek Onion Creek Owl Creek Plum Creek Plum Creek Rock Creek Rock Creek Rock Creek School Creek School Creek Scott Creek Spring Creek Sutton Creek Turkey Branch Turkey Creek	11070204 11070204	20 4 48 48 44 34 29 12 49 26 31 24 19 21 22 7 23 38 40 30 46 35 28	Primary Contact Recreation
Coal Creek Cottonwood Creek Crooked Creek Draw Creek Goose Creek Long Creek Martin Creek Mud Creek Mud Creek Onion Creek Owl Creek Owl Creek Plum Creek Rock Creek Rock Creek Rock Creek School Creek School Creek Scott Creek Spring Creek Sutton Creek Turkey Branch	11070204 11070204	20 48 48 444 344 29 12 49 26 31 24 19 21 22 7 23 38 40 30 46 35 28 18	Primary Contact Recreation

Normal County		I 40	
Varvel Creek	11070204		Primary Contact Recreation
Village Creek	11070204		Primary Contact Recreation
Wolf Creek	11070204		Primary Contact Recreation
Bachelor Creek	basin: Middle Ne 11070205		Primary Contact Recreation
Canville Creek	11070205		Primary Contact Recreation
Center Creek	11070205		Primary Contact Recreation
Cherry Creek	11070205		Primary Contact Recreation
Deer Creek	11070205		Primary Contact Recreation
Denny Branch	11070205		Primary Contact Recreation  Primary Contact Recreation
Elk Creek	11070205		Primary Contact Recreation
Elm Creek	11070205		Primary Contact Recreation
Flat Rock Creek	11070205		Primary Contact Recreation
Flat Rock Creek	11070205		Primary Contact Recreation
Fourmile Creek	11070205		Primary Contact Recreation
Grindstone Creek	11070205		Primary Contact Recreation
Hickory Creek	11070205		Primary Contact Recreation
Lake Creek	11070205		Primary Contact Recreation
Lightning Creek	11070205		Primary Contact Recreation
Lightning Creek	11070205		Primary Contact Recreation
Limestone Creek	11070205		Primary Contact Recreation
Little Cherry Creek	11070205		Primary Contact Recreation
Little Elk Creek	11070205		Primary Contact Recreation
Little Fly Creek	11070205		Secondary Contact Recreation
Little Labette Creek	11070205		Primary Contact Recreation
Little Walnut Creek	11070205		Primary Contact Recreation
Litup Creek	11070205		Primary Contact Recreation  Primary Contact Recreation
Mulberry Creek	11070205		Primary Contact Recreation  Primary Contact Recreation
Murphy Creek			Primary Contact Recreation
Ogeese Creek	11070205 11070205		Primary Contact Recreation
9			,
Pecan Creek	11070205		Primary Contact Recreation
Plum Creek	11070205		Primary Contact Recreation
Rock Creek	11070205		Primary Contact Recreation
Spring Creek	11070205		Primary Contact Recreation
Stink Branch	11070205		Primary Contact Recreation
Thunderbolt Creek	11070205		Primary Contact Recreation
Tolen Creek	11070205		Primary Contact Recreation
Town Creek	11070205		Primary Contact Recreation  Primary Contact Recreation
Turkey Creek	11070205 11070205		Primary Contact Recreation
Walnut Creek	11070205		,
Wolf Creek	in: Lake O' the C		Primary Contact Recreation
Fourmile Creek	11070206		Primary Contact Recreation
Tar Creek	11070206		Primary Contact Recreation
			Primary Contact Recreation
Little Shawnee Creek	Subbasin: Spring	T	Primary Contact Recreation
-	11070207		Primary Contact Recreation
Long Branch Shawnee Creek	11070207		Primary Contact Recreation
			Primary Contact Recreation
Taylor Branch Willow Creek	11070207 11070207		Primary Contact Recreation  Primary Contact Recreation
	sin: Smoky Hill/S		Primary Contact Recreation
	asin: Middle Smo		
	10260006		Primary Contact Regression
Ash Creek Big Timber Creek	10260006	_	Primary Contact Recreation Primary Contact Recreation
	10260006		Primary Contact Recreation  Primary Contact Recreation
Big Timber Creek Big Timber Creek	10260006		Primary Contact Recreation  Primary Contact Recreation
Blood Creek	10260006		Secondary Contact Recreation
Buck Creek	10260006		Primary Contact Recreation  Primary Contact Recreation
Buffalo Creek	10260006		Primary Contact Recreation  Primary Contact Recreation
Clear Creek	10260006		Primary Contact Recreation  Primary Contact Recreation
Coal Creek	10260006		Primary Contact Recreation  Primary Contact Recreation
Coal Creek Cow Creek	10260006		Primary Contact Recreation  Primary Contact Recreation
Cow Creek Eagle Creek	10260006		Primary Contact Recreation  Primary Contact Recreation
· ·			Primary Contact Recreation  Primary Contact Recreation
Fossil Creek Goose Creek	10260006 10260006		Primary Contact Recreation  Primary Contact Recreation
			,
Landon Creek	10260006		Primary Contact Recreation
Loss Creek	10260006		Primary Contact Recreation
Mud Creek	10260006		Primary Contact Recreation
Oxide Creek	10260006		Primary Contact Recreation
Sellens Creek	10260006		Primary Contact Recreation
Shelter Creek	10260006		Primary Contact Recreation
		. 10	Primary Contact Recreation
Skunk Creek Spring Creek	10260006 10260006		Primary Contact Recreation

ITimb on Operation	•	I oc		0
Timber Creek	10260006			Contact Recreation
Turkey Creek Unnamed Stream	10260006		,	Contact Recreation  Contact Recreation
Unnamed Stream	10260006			Contact Recreation  Contact Recreation
Unnamed Stream	10260006 10260006			Contact Recreation  Contact Recreation
Wilson Creek	10260006		,	Contact Recreation  Contact Recreation
Wolf Creek	10260006			Contact Recreation  Contact Recreation
	pasin: Lower Smo		Pilillary	Contact Recreation
Basket Creek	10260008		Drimon	Contact Recreation
Battle Creek	10260008			Contact Recreation  Contact Recreation
Carry Creek	10260008			Contact Recreation
Carry Creek	10260008			Contact Recreation
Chapman Creek, West	10260008		,	Contact Recreation
Dry Creek	10260008			Contact Recreation
Dry Creek, East	10260008		,	Contact Recreation
Hobbs Creek	10260008			Contact Recreation
Holland Creek	10260008			Contact Recreation
Holland Creek, East	10260008			Contact Recreation
Holland Creek, West	10260008			Contact Recreation
Kentucky Creek	10260008			ry Contact Recreation
Kentucky Creek, West	10260008			Contact Recreation
Lone Tree Creek			,	Contact Recreation
Lyon Creek, West Branch	10260008 10260008			Contact Recreation  Contact Recreation
Mcallister Creek				Contact Recreation  Contact Recreation
Middle Branch	10260008 10260008			Contact Recreation  Contact Recreation
Mud Creek Otter Creek	10260008		,	Contact Recreation  Contact Recreation
	10260008		,	
Paint Creek	10260008			ry Contact Recreation
Pewee Creek	10260008			Contact Recreation
Sand Creek	10260008			Contact Recreation
Sharps Creek	10260008			ry Contact Recreation
Spring Creek	10260008			Contact Recreation
Stag Creek	10260008			Contact Recreation
Turkey Creek	10260008		,	Contact Recreation
Turkey Creek	10260008			Contact Recreation
Turkey Creek, East	10260008		,	Contact Recreation
Turkey Creek, West Branch	10260008		,	Contact Recreation
Unnamed Stream	10260008		,	Contact Recreation
Unnamed Stream	10260008			Contact Recreation
Unnamed Stream	10260008		,	Contact Recreation
Wiley Creek	10260008		Primary	Contact Recreation
	bbasin: Upper Sa			
Cedar Creek	10260009			ry Contact Recreation
Chalk Creek	10260009			Contact Recreation
Coyote Creek	10260009			Contact Recreation
Eagle Creek	10260009			Contact Recreation
Happy Creek	10260009			Contact Recreation
Paradise Creek	10260009		,	Contact Recreation
Salt Creek	10260009			Contact Recreation
Spring Creek, East	10260009			Contact Recreation
Sweetwater Creek	10260009			Contact Recreation
Trego Creek	10260009			Contact Recreation
Unnamed Stream	10260009			Contact Recreation
Wild Horse Creek	10260009		Primary	Contact Recreation
	bbasin: Lower Sa		D :	0 1 15 "
Bacon Creek	10260010		,	Contact Recreation
Blue Stem Creek	10260010		,	Contact Recreation
Coon Creek	10260010			Contact Recreation
Dry Creek	10260010			ry Contact Recreation
Eff Creek	10260010			Contact Recreation
Elkhorn Creek	10260010			Contact Recreation
Elkhorn Creek, West	100000:-	J 38		Contact Recreation
·	10260010			
Fourmile Creek	10260010			Contact Recreation
Fourmile Creek Lost Creek	10260010 10260010	34	Seconda	ry Contact Recreation
Fourmile Creek Lost Creek Owl Creek	10260010 10260010 10260010	34 18	Seconda Primary	ry Contact Recreation Contact Recreation
Fourmile Creek Lost Creek Owl Creek Owl Creek	10260010 10260010 10260010 10260010	34 18 39	Seconda Primary Primary	ry Contact Recreation  Contact Recreation  Contact Recreation
Fourmile Creek Lost Creek Owl Creek Owl Creek Ralston Creek	10260010 10260010 10260010 10260010 10260010	34 18 39 28	Seconda Primary Primary Primary	ry Contact Recreation  Contact Recreation  Contact Recreation  Contact Recreation
Fourmile Creek Lost Creek Owl Creek Owl Creek Ralston Creek Shaw Creek	10260010 10260010 10260010 10260010 10260010 10260010	34 18 39 28 41	Seconda Primary Primary Primary Primary	ry Contact Recreation Contact Recreation Contact Recreation Contact Recreation Contact Recreation Contact Recreation
Fourmile Creek Lost Creek Owl Creek Owl Creek Ralston Creek Shaw Creek Spillman Creek	10260010 10260010 10260010 10260010 10260010 10260010 10260010	34 18 39 28 41 6	Seconda Primary Primary Primary Primary Primary	ry Contact Recreation
Fourmile Creek Lost Creek Owl Creek Owl Creek Ralston Creek Shaw Creek Spillman Creek Spillman Creek, North Branch	10260010 10260010 10260010 10260010 10260010 10260010 10260010 10260010	34 18 39 28 41 6	Seconda Primary Primary Primary Primary Primary Primary	ry Contact Recreation
Fourmile Creek Lost Creek Owl Creek Owl Creek Ralston Creek Shaw Creek Spillman Creek Spillman Creek, North Branch Spring Creek	10260010 10260010 10260010 10260010 10260010 10260010 10260010 10260010	34 18 39 28 41 6 8	Seconda Primary Primary Primary Primary Primary Primary Primary	ry Contact Recreation
Fourmile Creek Lost Creek Owl Creek Owl Creek Ralston Creek Shaw Creek Spillman Creek Spillman Creek, North Branch Spring Creek Spring Creek	10260010 10260010 10260010 10260010 10260010 10260010 10260010 10260010 10260010	34 18 39 28 41 6 8 16	Seconda Primary Primary Primary Primary Primary Primary Primary Primary	ry Contact Recreation
Fourmile Creek Lost Creek Owl Creek Owl Creek Ralston Creek Shaw Creek Spillman Creek Spillman Creek, North Branch Spring Creek	10260010 10260010 10260010 10260010 10260010 10260010 10260010 10260010	34 18 39 28 41 6 8 16	Seconda Primary Primary Primary Primary Primary Primary Primary Primary	ry Contact Recreation

Spring Creek	129/2019	COUE OF	rederal Regulation	5
Spring Creek	Spring Creek	10260010	24	Primary Contact Recreation
Spring Creek	Spring Creek	10260010	26	Primary Contact Recreation
Table Fook Croek				•
Trial Cleek				,
Twelverline  Creek				,
Two Creek West   19200010				
Meal Spring Creek   12260010				
Wolf Creek   10260010   10]Primary Contact Recreation   Wolf Creek, West Fork   10260010   12]Primary Contact Recreation   Wolf Creek   10260010   12]Primary Contact Recreation   Wolf Creek   10260011   13]Primary Contact Recreation   Wolf Creek   10260012   13]Primary Conta	Twin Creek, West	10260010		
Mod Croek, East Fork   12200010   11   Primary Contact Recreation   12200010   12   Primary Contact Recreation   12200011   12   Primary Contact Recreatio	West Spring Creek	10260010	25	Primary Contact Recreation
Wolf Creek   10260010   129/mrary Contact Recreation   12060010   369/mrary Contact Recreation   12060010   369/mrary Contact Recreation   12060010   369/mrary Contact Recreation   12060010   369/mrary Contact Recreation   12060011   369/mrary Contact Recreation   369/mrary Co	Wolf Creek	10260010	10	Primary Contact Recreation
Wolf Creek   10260010   129/mrary Contact Recreation   12060010   369/mrary Contact Recreation   12060010   369/mrary Contact Recreation   12060010   369/mrary Contact Recreation   12060010   369/mrary Contact Recreation   12060011   369/mrary Contact Recreation   369/mrary Co	Wolf Creek Fast Fork	10260010	11	Primary Contact Recreation
Subsect   Subs				,
Sabin: Solomon				· · · · · · · · · · · · · · · · · · ·
Subbasin: Upper North Fork Solomon	rauger Greek			Filliary Contact Necreation
Ash Creek    10280011   24 Primary Contact Recreation   Big Timber Creek   10280011   23 Primary Contact Recreation   Big Timber Creek   10280011   68 Primary Contact Recreation   Big Timber Creek   10280011   16 Primary Contact Recreation   Cactus Creek   10280011   28 Primary Contact Recreation   Cactus Creek   10280011   12 Primary Contact Recreation   Circked Creek   10280011   12 Primary Contact Recreation   Circked Creek   10280011   12 Primary Contact Recreation   Bik Creek   10280011   10 Primary Contact Recreation   Bik Creek   10280012   10 Prim			-	
Beywer Creek				
Big Timber Creek	Ash Creek	10260011	24	Primary Contact Recreation
Bow Creek	Beaver Creek	10260011	23	Primary Contact Recreation
Carchac Creek	Big Timber Creek	10260011	8	Primary Contact Recreation
Carchac Creek	Bow Creek	10260011	15	Primary Contact Recreation
Crocked Crock   10280011   5 Primary Confact Recreation				,
Elik Creek				,
Elik Creek				,
Game Creek   10280011   20   Primary Contact Recreation				· · · · · · · · · · · · · · · · · · ·
Game Creek	Elk Creek, East			,
Loed Creek	Game Creek	10260011	10	Primary Contact Recreation
Lost Creek	Game Creek	10260011	27	Primary Contact Recreation
Sand Creek	Lost Creek			,
Scull Creek				,
Spring Creek				
Subbasin: Lower Nort Fork Solomo				
Subbasin: Lower North Fork Solomon	. •			· · · · · · · · · · · · · · · · · · ·
Beaver Creek				Primary Contact Recreation
Beaver Creek, East Branch	Subbasin	: Lower North Fo	rk Solomon	
Beaver Creek, Middle	Beaver Creek	10260012	10	Primary Contact Recreation
Beaver Creek, Middle	Beaver Creek, East Branch	10260012	11	Primary Contact Recreation
Beaver Creek Middle	·			· · · · · · · · · · · · · · · · · · ·
Beaver Creek West   10260012	·			,
Big Creek	·			,
Boughton Creek	·			*
Buck Creek	ů .			•
Cedar Creek	Boughton Creek	10260012	34	Primary Contact Recreation
Cedar Creek	Buck Creek	10260012	43	Secondary Contact Recreation
Cedar Creek	Cedar Creek	10260012	16	Primary Contact Recreation
Cedar Creek				,
Cedar Creek, East Middle         10260012         37 Primary Contact Recreation           Cedar Creek, Middle         10260012         19 Secondary Contact Recreation           Deer Creek         10260012         23 Primary Contact Recreation           Deer Creek         10260012         25 Primary Contact Recreation           Deer Creek         10260012         27 Primary Contact Recreation           Deer Creek         10260012         29 Primary Contact Recreation           Deer Creek         10260012         31 Primary Contact Recreation           Deer Creek         10260012         31 Primary Contact Recreation           Deer Creek         10260012         42 Primary Contact Recreation           Deer Creek         10260012         42 Primary Contact Recreation           Deer Creek         10260012         42 Primary Contact Recreation           Lawrence Creek         10260012         44 Primary Contact Recreation           Lawrence Creek         10260012         3 Primary Contact Recreation           Little Oak Creek         10260012         3 Primary Contact Recreation           Medicine Creek         10260012         3 Primary Contact Recreation           Oak Creek         10260012         4 Primary Contact Recreation           Oak Creek, West         10260012         4 Prim				•
Cedar Creek, Middle				, -
Deer Creek	·			
Deer Creek				,
Deer Creek	Deer Creek	10260012		
Deer Creek	Deer Creek	10260012	25	Primary Contact Recreation
Deer Creek	Deer Creek	10260012	27	Primary Contact Recreation
Deer Creek	Deer Creek	10260012	29	Primary Contact Recreation
Dry Creek   10260012   42   Primary Contact Recreation   10260012   41   Primary Contact Recreation   10260012   41   Primary Contact Recreation   10260012   44   Primary Contact Recreation   10260012   44   Primary Contact Recreation   10260012   45   Primary Contact Recreation   10260012   45   Primary Contact Recreation   10260012   45   Primary Contact Recreation   10260012   30   Primary Contact Recreation   10260012   33   Primary Contact Recreation   10260012   20   Primary Contact Recreation   10260012   20   Primary Contact Recreation   10260012   40   Primary Contact Recreation   10260014   40   Primary Contact Recreation   1026001				,
Primary Contact Recreation   10260012   41   Primary Contact Recreation   10260012   44   Primary Contact Recreation   10260012   44   Primary Contact Recreation   10260012   45   Primary Contact Recreation   10260012   45   Primary Contact Recreation   10260012   33   Primary Contact Recreation   10260012   33   Primary Contact Recreation   10260012   33   Primary Contact Recreation   10260012   20   Primary Contact Recreation   2006				,
Lawrence Creek	·			,
Little Oak Creek				•
Display				,
Medicine Creek	Lindley Creek	10260012		Primary Contact Recreation
Oak Creek         10260012         2 Primary Contact Recreation           Oak Creek         10260012         4 Primary Contact Recreation           Oak Creek, East         10260012         40 Primary Contact Recreation           Oak Creek, West         10260012         39 Secondary Contact Recreation           Plother Creek         10260012         30 Primary Contact Recreation           Plum Creek         10260012         20 Primary Contact Recreation           Spring Creek         10260012         8 Secondary Contact Recreation           Spring Creek         10260012         38 Primary Contact Recreation           Starvation Creek         10260012         38 Primary Contact Recreation           Turner Creek         10260012         24 Primary Contact Recreation           Spring Creek         10260012         24 Primary Contact Recreation           Spring Creek         10260012         24 Primary Contact Recreation           Spring Creek         10260014         22 Primary Contact Recreation           Ash Creek         10260014         22 Primary Contact Recreation           Boxelder Creek         10260014         14 Primary Contact Recreation           Covert Creek         10260014         21 Primary Contact Recreation           Crooked Creek         10260014         27 Primary	Little Oak Creek			
Oak Creek         10260012         2 Primary Contact Recreation           Oak Creek         10260012         4 Primary Contact Recreation           Oak Creek, East         10260012         40 Primary Contact Recreation           Oak Creek, West         10260012         39 Secondary Contact Recreation           Plother Creek         10260012         30 Primary Contact Recreation           Plum Creek         10260012         20 Primary Contact Recreation           Spring Creek         10260012         8 Secondary Contact Recreation           Spring Creek         10260012         38 Primary Contact Recreation           Starvation Creek         10260012         38 Primary Contact Recreation           Turner Creek         10260012         24 Primary Contact Recreation           Spring Creek         10260012         24 Primary Contact Recreation           Spring Creek         10260012         24 Primary Contact Recreation           Spring Creek         10260014         22 Primary Contact Recreation           Ash Creek         10260014         22 Primary Contact Recreation           Boxelder Creek         10260014         14 Primary Contact Recreation           Covert Creek         10260014         21 Primary Contact Recreation           Crooked Creek         10260014         27 Primary	Entire Out Crook	10260012	3	Primary Contact Recreation
Oak Creek         10260012         4 Primary Contact Recreation           Oak Creek, East         10260012         40 Primary Contact Recreation           Oak Creek, West         10260012         39 Secondary Contact Recreation           Plother Creek         10260012         30 Primary Contact Recreation           Plum Creek         10260012         20 Primary Contact Recreation           Spring Creek         10260012         8 Secondary Contact Recreation           Spring Creek         10260012         28 Secondary Contact Recreation           Starvation Creek         10260012         28 Secondary Contact Recreation           Turner Creek         10260012         24 Primary Contact Recreation           Subbasin: Upper South Fork Solomon         5 Primary Contact Recreation           Spring Creek         10260013         5 Primary Contact Recreation           Subbasin: Lower South Fork Solomon         5 Primary Contact Recreation           Boxelder Creek         10260014         22 Primary Contact Recreation           Coreck         10260014         21 Primary Contact Recreation           Covert Creek         10260014         21 Primary Contact Recreation           Crooked Creek         10260014         27 Primary Contact Recreation	Medicine Creek			•
Oak Creek, East         10260012         40 Primary Contact Recreation           Oak Creek, West         10260012         39 Secondary Contact Recreation           Plotner Creek         10260012         30 Primary Contact Recreation           Plum Creek         10260012         20 Primary Contact Recreation           Spring Creek         10260012         8 Secondary Contact Recreation           Spring Creek         10260012         28 Secondary Contact Recreation           Starvation Creek         10260012         38 Primary Contact Recreation           Turner Creek         10260012         24 Primary Contact Recreation           Spring Creek         10260012         5 Primary Contact Recreation           Spring Creek         10260013         5 Primary Contact Recreation           Spring Creek         10260014         22 Primary Contact Recreation           Ash Creek         10260014         22 Primary Contact Recreation           Boxelder Creek         10260014         21 Primary Contact Recreation           Covert Creek         10260014         21 Primary Contact Recreation           Crooked Creek         10260014         27 Primary Contact Recreation		10260012	33	Primary Contact Recreation
Oak Creek, West         10260012         39 Secondary Contact Recreation           Plotner Creek         10260012         30 Primary Contact Recreation           Plum Creek         10260012         20 Primary Contact Recreation           Spring Creek         10260012         8 Secondary Contact Recreation           Spring Creek         10260012         28 Secondary Contact Recreation           Starvation Creek         10260012         38 Primary Contact Recreation           Turner Creek         10260012         24 Primary Contact Recreation           Spring Creek         10260012         5 Primary Contact Recreation           Spring Creek         10260013         5 Primary Contact Recreation           Spring Creek         10260014         22 Primary Contact Recreation           Ash Creek         10260014         22 Primary Contact Recreation           Boxelder Creek         10260014         24 Primary Contact Recreation           Carr Creek         10260014         21 Primary Contact Recreation           Covert Creek         10260014         21 Primary Contact Recreation           Crooked Creek         10260014         27 Primary Contact Recreation	Medicine Creek Oak Creek	10260012 10260012	33 2	Primary Contact Recreation Primary Contact Recreation
Plotner Creek   10260012   30	Medicine Creek Oak Creek Oak Creek	10260012 10260012 10260012	33 2 4	Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Plum Creek	Medicine Creek Oak Creek Oak Creek Oak Creek	10260012 10260012 10260012 10260012	33 2 4 40	Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Spring Creek         10260012         8 Secondary Contact Recreation           Spring Creek         10260012         28 Secondary Contact Recreation           Starvation Creek         10260012         38 Primary Contact Recreation           Turner Creek         10260012         24 Primary Contact Recreation           Subbasin: Upper South Fork Solomon           Spring Creek         10260013         5 Primary Contact Recreation           Subbasin: Lower South Fork Solomon         Subbasin: Lower South Fork Solomon           Ash Creek         10260014         22 Primary Contact Recreation           Boxelder Creek         10260014         14 Primary Contact Recreation           Carr Creek         10260014         21 Primary Contact Recreation           Covert Creek         10260014         19 Primary Contact Recreation           Crooked Creek         10260014         27 Primary Contact Recreation	Medicine Creek Oak Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West	10260012 10260012 10260012 10260012 10260012	33 2 4 40 39	Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation
Spring Creek         10260012         28 Secondary Contact Recreation           Starvation Creek         10260012         38 Primary Contact Recreation           Turner Creek         10260012         24 Primary Contact Recreation           Subbasin: Upper South Fork Solomon           Spring Creek         10260013         5 Primary Contact Recreation           Subbasin: Lower South Fork Solomon           Ash Creek         10260014         22 Primary Contact Recreation           Boxelder Creek         10260014         14 Primary Contact Recreation           Carr Creek         10260014         21 Primary Contact Recreation           Covert Creek         10260014         19 Primary Contact Recreation           Crooked Creek         10260014         27 Primary Contact Recreation	Medicine Creek Oak Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek	10260012 10260012 10260012 10260012 10260012 10260012	33 2 4 40 39 30	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
Spring Creek         10260012         28 Secondary Contact Recreation           Starvation Creek         10260012         38 Primary Contact Recreation           Turner Creek         10260012         24 Primary Contact Recreation           Subbasin: Upper South Fork Solomon           Spring Creek         10260013         5 Primary Contact Recreation           Subbasin: Lower South Fork Solomon           Ash Creek         10260014         22 Primary Contact Recreation           Boxelder Creek         10260014         14 Primary Contact Recreation           Carr Creek         10260014         21 Primary Contact Recreation           Covert Creek         10260014         19 Primary Contact Recreation           Crooked Creek         10260014         27 Primary Contact Recreation	Medicine Creek Oak Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West	10260012 10260012 10260012 10260012 10260012 10260012	33 2 4 40 39 30	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
Starvation Creek   10260012   24 Primary Contact Recreation	Medicine Creek Oak Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek	10260012 10260012 10260012 10260012 10260012 10260012 10260012	33 2 4 40 39 30 20	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Turner Creek	Medicine Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek Plum Creek	10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012	33 2 4 40 39 30 20	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation
Subbasin: Upper South Fork Solomon           Spring Creek         10260013         5 Primary Contact Recreation           Subbasin: Lower South Fork Solomon           Ash Creek         10260014         22 Primary Contact Recreation           Boxelder Creek         10260014         14 Primary Contact Recreation           Carr Creek         10260014         21 Primary Contact Recreation           Covert Creek         10260014         19 Primary Contact Recreation           Crooked Creek         10260014         27 Primary Contact Recreation	Medicine Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek Plum Creek Spring Creek Spring Creek	10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012	33 2 4 40 39 30 20 8	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation
Spring Creek         10260013         5 Primary Contact Recreation           Subbasin: Lower South Fork Solomon           Ash Creek         10260014         22 Primary Contact Recreation           Boxelder Creek         10260014         14 Primary Contact Recreation           Carr Creek         10260014         21 Primary Contact Recreation           Covert Creek         10260014         19 Primary Contact Recreation           Crooked Creek         10260014         27 Primary Contact Recreation	Medicine Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek Plum Creek Spring Creek Spring Creek Starvation Creek	10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012	33 2 4 40 39 30 20 8 28	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Subbasin: Lower South Fork Solomon           Ash Creek         10260014         22 Primary Contact Recreation           Boxelder Creek         10260014         14 Primary Contact Recreation           Carr Creek         10260014         21 Primary Contact Recreation           Covert Creek         10260014         19 Primary Contact Recreation           Crooked Creek         10260014         27 Primary Contact Recreation	Medicine Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek Plum Creek Spring Creek Spring Creek Starvation Creek Turner Creek	10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012	33 2 4 40 39 30 20 8 28 28 38	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Ash Creek         10260014         22 Primary Contact Recreation           Boxelder Creek         10260014         14 Primary Contact Recreation           Carr Creek         10260014         21 Primary Contact Recreation           Covert Creek         10260014         19 Primary Contact Recreation           Crooked Creek         10260014         27 Primary Contact Recreation	Medicine Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek Plum Creek Spring Creek Spring Creek Starvation Creek Turner Creek Subbasin	10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012	33 2 4 40 39 30 20 8 28 38 24 rk Solomon	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Boxelder Creek         10260014         14 Primary Contact Recreation           Carr Creek         10260014         21 Primary Contact Recreation           Covert Creek         10260014         19 Primary Contact Recreation           Crooked Creek         10260014         27 Primary Contact Recreation	Medicine Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek Plum Creek Spring Creek Spring Creek Starvation Creek Turner Creek Spring Creek Spring Creek	10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012	33 2 4 40 39 30 20 8 28 28 38 24 rk Solomon 5	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Boxelder Creek         10260014         14 Primary Contact Recreation           Carr Creek         10260014         21 Primary Contact Recreation           Covert Creek         10260014         19 Primary Contact Recreation           Crooked Creek         10260014         27 Primary Contact Recreation	Medicine Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek Plum Creek Spring Creek Spring Creek Starvation Creek Turner Creek Spring Creek Spring Creek	10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260013 10260013	33 2 4 40 40 39 30 20 8 28 28 38 24 rk Solomon 5	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Carr Creek         10260014         21 Primary Contact Recreation           Covert Creek         10260014         19 Primary Contact Recreation           Crooked Creek         10260014         27 Primary Contact Recreation	Medicine Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek Plum Creek Spring Creek Spring Creek Starvation Creek Turner Creek Spring Creek Spring Creek	10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260013 10260013	33 2 4 40 40 39 30 20 8 28 28 38 24 rk Solomon 5	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Covert Creek     10260014     19 Primary Contact Recreation       Crooked Creek     10260014     27 Primary Contact Recreation	Medicine Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek Plum Creek Spring Creek Spring Creek Starvation Creek Turner Creek Spring Creek Subbasin Spring Creek	10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260013 10260013 10260013	33 2 4 40 40 39 30 20 8 28 28 38 24 rk Solomon 5 rk Solomon	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
Crooked Creek 10260014 27 Primary Contact Recreation	Medicine Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek Plum Creek Spring Creek Spring Creek Starvation Creek Turner Creek Spring Creek Subbasin Spring Creek	10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260013 10260013 10260014 10260014	33 2 4 40 40 39 30 20 8 28 28 28 7 28 7 8 7 8 8 24 7 8 8 24 7 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
· · · · · · · · · · · · · · · · · · ·	Medicine Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek Plum Creek Spring Creek Spring Creek Starvation Creek Turner Creek Spring Creek Subbasin Spring Creek Creek	10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260013 10260013 10260014 10260014 10260014	33 2 4 40 40 39 30 20 8 28 28 28 7 8 24 rk Solomon 5 rk Solomon 22 14 21	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
Dibble Creek 10260014 23 Primary Contact Recreation	Medicine Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek Plum Creek Spring Creek Spring Creek Starvation Creek Turner Creek Spring Creek Subbasin Spring Creek Carr Creek Covert Creek Cake	10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260013 10260013 10260014 10260014 10260014 10260014	33 2 4 40 40 39 30 20 8 28 28 28 7 8 24 rk Solomon 5 rk Solomon 22 14 21	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation
	Medicine Creek Oak Creek Oak Creek Oak Creek, East Oak Creek, West Plotner Creek Plum Creek Spring Creek Spring Creek Starvation Creek Turner Creek Subbasin Spring Creek Subbasin Creek Subbasin Spring Creek Covert Creek Car Creek Cooked Creek	10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260012 10260013 10260013 Lower South Fo 10260014 10260014 10260014 10260014	33 2 4 40 40 39 30 20 8 28 28 28 7 8 24 7 8 Solomon 5 7 8 Solomon 22 14 21 19	Primary Contact Recreation Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Secondary Contact Recreation Secondary Contact Recreation Primary Contact Recreation

Inter-order	10000014	l 4el	Delice and October 4 December 41 and
Elm Creek	10260014		Primary Contact Recreation
Jim Creek	10260014 10260014		Primary Contact Recreation Primary Contact Recreation
Kill Creek			Primary Contact Recreation  Primary Contact Recreation
Kill Creek, East Lost Creek	10260014 10260014		Primary Contact Recreation  Primary Contact Recreation
Lucky Creek	10260014		Primary Contact Recreation  Primary Contact Recreation
Medicine Creek			Primary Contact Recreation  Primary Contact Recreation
Medicine Creek	10260014 10260014		Primary Contact Recreation  Primary Contact Recreation
Robbers Roost Creek	10260014		Primary Contact Recreation  Primary Contact Recreation
Twin Creek	10260014		Primary Contact Recreation  Primary Contact Recreation
Twin Creek, East	10260014		Primary Contact Recreation
·	basin: Solomon		Primary Contact Recreation
Cow Creek	10260015		Primary Contact Recreation
			Secondary Contact Recreation
Fifth Creek Granite Creek	10260015 10260015		Secondary Contact Recreation  Secondary Contact Recreation
Leban Creek			Secondary Contact Recreation
Mill Creek	10260015		Secondary Contact Recreation  Secondary Contact Recreation
	10260015		•
Mulberry Creek	10260015		Secondary Contact Recreation
Pipe Creek	10260015		Primary Contact Recreation
Walnut Creek	10260015		Secondary Contact Recreation
	sin: Upper Arkar		
	Subbasin: Buckn		Duine and Compact Do
Buckner Creek, South Fork	11030006		Primary Contact Recreation
Duck Creek	11030006		Secondary Contact Recreation
Elm Creek	11030006		Primary Contact Recreation
Saw Log Creek	11030006		Primary Contact Recreation
Saw Log Creek	11030006		Secondary Contact Recreation
	sin: Lower Walnu		
Alexander Dry Creek	11030008		Secondary Contact Recreation
Bazine Creek	11030008		Secondary Contact Recreation
Boot Creek	11030008		Secondary Contact Recreation
Dry Creek	11030008		Secondary Contact Recreation
Dry Walnut Creek	11030008		Secondary Contact Recreation
Otter Creek	11030008		Primary Contact Recreation
Sand Creek	11030008		Secondary Contact Recreation
Sandy Creek	11030008		Secondary Contact Recreation
Walnut Creek	11030008		Primary Contact Recreation
Walnut Creek	11030008		Primary Contact Recreation
Walnut Creek	11030008		Primary Contact Recreation
	sin: Upper Repub		
	in: South Fork Re	•	
Big Timber Creek	10250003		Secondary Contact Recreation
	Subbasin: Beave	·	
Beaver Creek	10250014		Secondary Contact Recreation
	Basin: Verdigris		
	basin: Upper Ver		
Bachelor Creek	11070101		
Bernard Creek			Primary Contact Recreation
	11070101	24	Secondary Contact Recreation
Big Cedar Creek	11070101	24 39	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek	11070101 11070101	24 39 31	Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek	11070101 11070101 11070101	24 39 31 2	Secondary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West	11070101 11070101 11070101 11070101	24 39 31 2 34	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek	11070101 11070101 11070101 11070101 11070101	24 39 31 2 2 34 32	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek	11070101 11070101 11070101 11070101 11070101 11070101	24 39 31 2 2 34 32 22	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek	11070101 11070101 11070101 11070101 11070101 11070101 11070101	24 39 31 2 2 34 32 22 38	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek	11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101	24 39 31 2 34 32 22 38 27	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch	11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101	24 39 31 2 34 32 22 38 27 37	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek	11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101	24 39 31 2 34 32 22 38 27 37	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek	11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101	24 39 31 2 34 32 22 38 27 37 28	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek Holderman Creek	11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101	24 39 31 2 34 32 22 38 27 37 28 26	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek Holderman Creek Homer Creek	11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101	24 39 31 2 34 32 22 38 27 37 28 26 47	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek Holderman Creek Kelly Branch	11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101	24 39 31 2 34 32 22 38 27 37 28 26 47 20	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek Holderman Creek Homer Creek Kelly Branch Kuntz Branch	11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101	24 39 31 2 34 32 22 38 27 37 28 26 47 20	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek Holderman Creek Homer Creek Kelly Branch Kuntz Branch Little Sandy Creek	11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101	24 39 31 2 34 32 22 38 27 37 28 26 47 20 42	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek Holderman Creek Homer Creek Kelly Branch Kuntz Branch Little Sandy Creek Long Creek Long Creek Long Creek Long Creek Long Creek Long Creek	11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101	24 39 31 2 34 32 22 38 27 37 28 26 47 20 42 29	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek Holderman Creek Homer Creek Kelly Branch Kuntz Branch Little Sandy Creek	11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101	24 39 31 2 34 32 22 38 27 37 28 26 47 20 42 29 33 35	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek Holderman Creek Homer Creek Kelly Branch Kuntz Branch Little Sandy Creek Long Creek Miller Creek Moon Branch	11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101 11070101	24 39 31 2 34 32 22 38 27 37 28 26 47 20 42 29 33 34 45 30 43	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek Holderman Creek Homer Creek Kelly Branch Kuntz Branch Little Sandy Creek Long Creek Miller Creek	11070101 11070101	24 39 31 2 34 32 22 38 27 37 28 26 47 20 42 29 33 45 30 43	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek Holderman Creek Homer Creek Kelly Branch Kuntz Branch Little Sandy Creek Long Creek Miller Creek Moon Branch	11070101 11070101	24 39 31 2 34 32 22 38 27 37 28 26 47 20 42 29 33 33 45 30 43 23	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek Holderman Creek Homer Creek Kelly Branch Kuntz Branch Little Sandy Creek Long Creek Miller Creek Moon Branch Onion Creek	11070101 11070101	24 39 31 2 34 32 22 38 27 37 28 26 47 20 42 29 33 33 45 30 43 43	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek Holderman Creek Homer Creek Kelly Branch Kuntz Branch Little Sandy Creek Long Creek Miller Creek Moon Branch Onion Creek Rock Creek	11070101 11070101	24 39 31 2 34 32 22 38 27 37 28 26 47 20 42 29 33 45 30 43 43 35	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek Holderman Creek Homer Creek Kelly Branch Kuntz Branch Little Sandy Creek Long Creek Miller Creek Moon Branch Onion Creek Ross Branch	11070101 11070101	24 39 31 2 34 32 22 38 27 37 28 26 47 20 42 29 33 45 30 43 43 43 44 43	Secondary Contact Recreation Primary Contact Recreation
Brazil Creek Buffalo Creek Buffalo Creek, West Cedar Creek Chetopa Creek Crooked Creek Dry Creek Elder Branch Fancy Creek Greenhall Creek Holderman Creek Homer Creek Kelly Branch Kuntz Branch Little Sandy Creek Long Creek Miller Creek Moon Branch Onion Creek Ross Branch Sandy Creek Sandy Creek Ross Branch Sandy Creek	11070101 11070101	24 39 31 2 34 32 22 38 27 37 28 26 47 20 42 29 33 45 30 43 43 43 44 40	Secondary Contact Recreation Primary Contact Recreation

112912019		rederal Regulations	5	
Snake Creek	11070101	36	Primary	Contact Recreation
Tate Branch Creek	11070101	44	Primary	Contact Recreation
Van Horn Creek	11070101			Contact Recreation
Verdigris River, Bernard Branch	11070101			Contact Recreation
0 ,				
Verdigris River, North Branch	11070101			Contact Recreation
Verdigris River, North Branch	11070101	15	Primary	Contact Recreation
Walnut Creek	11070101	19	Primary	Contact Recreation
West Creek	11070101	17	Primary	Contact Recreation
Wolf Creek	11070101			Contact Recreation
Wolf Grook	Subbasin: Fall	71	1 minury	Contact (Corcation
D. W. O I		10	<b>D</b> :	0 1 10 "
Battle Creek	11070102			Contact Recreation
Burnt Creek	11070102			Contact Recreation
Clear Creek	11070102	37	Primary	Contact Recreation
Coon Creek	11070102	25	Primary	Contact Recreation
Coon Creek	11070102			Contact Recreation
Crain Creek	11070102			Contact Recreation
Honey Creek	11070102			Contact Recreation
Indian Creek	11070102	15	Primary	Contact Recreation
Ivanpah Creek	11070102	19	Primary	Contact Recreation
Kitty Creek	11070102			Contact Recreation
Little Indian Creek	11070102			Contact Recreation
Little Salt Creek	11070102			Contact Recreation
Oleson Creek	11070102	21	Primary	Contact Recreation
Otis Creek	11070102	20	Primary	Contact Recreation
Plum Creek	11070102			Contact Recreation
Rainbow Creek, East	11070102			Contact Recreation
· · · · · · · · · · · · · · · · · · ·				
Salt Creek	11070102			Contact Recreation
Salt Creek	11070102		,	Contact Recreation
Silver Creek	11070102	33	Primary	Contact Recreation
Snake Creek	11070102			Contact Recreation
Spring Creek	11070102		•	Contact Recreation
Swing Creek	11070102			Contact Recreation
Tadpole Creek	11070102		Primary	Contact Recreation
Watson Branch	11070102	23	Primary	Contact Recreation
Sub	basin: Middle Ver	diaris		
Big Creek	11070103		Primary	Contact Recreation
Biscuit Creek	11070103			Contact Recreation
Bluff Run	11070103			Contact Recreation
Choteau Creek	11070103	63	Primary	Contact Recreation
Claymore Creek	11070103	50	Primary	Contact Recreation
Deadman Creek	11070103	57	Primary	Contact Recreation
Deer Creek	11070103			Contact Recreation
	11070103	01	i ililiai y	
Drum Creek	44070400	0.4	D	Contact Recreation
	11070103			
Dry Creek	11070103	37	Primary	Contact Recreation
Dry Creek Fawn Creek		37	Primary	Contact Recreation Contact Recreation
,	11070103	37 56	Primary Primary	Contact Recreation
Fawn Creek Mud Creek	11070103 11070103 11070103	37 56 59	Primary Primary Primary	Contact Recreation  Contact Recreation
Fawn Creek Mud Creek Onion Creek	11070103 11070103 11070103 11070103	37 56 59 39	Primary Primary Primary Primary	Contact Recreation Contact Recreation Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek	11070103 11070103 11070103 11070103 11070103	37 56 59 39	Primary Primary Primary Primary Primary	Contact Recreation Contact Recreation Contact Recreation Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek	11070103 11070103 11070103 11070103 11070103 11070103	37 56 59 39 31 62	Primary Primary Primary Primary Primary Primary	Contact Recreation Contact Recreation Contact Recreation Contact Recreation Contact Recreation Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103	37 56 59 39 31 62 28	Primary Primary Primary Primary Primary Primary Primary Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek	11070103 11070103 11070103 11070103 11070103 11070103	37 56 59 39 31 62 28 49	Primary Primary Primary Primary Primary Primary Primary Primary Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103	37 56 59 39 31 62 28	Primary Primary Primary Primary Primary Primary Primary Primary Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103	37 56 59 39 31 62 28 49	Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103	37 56 59 39 31 62 28 49 58	Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103	37 56 59 39 31 62 28 49 58 61	Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Spring Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103	37 56 59 39 31 62 28 49 58 61 25	Primary Primary Primary Primary Primary Primary Primary Primary Primary Primary Primary Primary Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103	37 56 59 39 31 62 28 49 58 61 25	Primary Primary Primary Primary Primary Primary Primary Primary Primary Primary Primary Primary Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Spring Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103	37 56 59 39 31 62 28 49 58 61 25 55	Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Spring Creek Sycamore Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103	37 56 59 39 31 62 28 49 58 61 25 55	Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103	37 56 59 39 31 62 28 49 58 61 25 55	Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bachelor Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103	37 56 59 39 31 62 28 49 58 61 25 55 52	Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bloody Run	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104 11070104	37 56 59 39 31 62 28 49 58 61 25 55 52 60	Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bachelor Creek Bloody Run Bull Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104 11070104	37 56 59 39 31 62 28 49 58 61 25 55 55 52 60	Primary	Contact Recreation
Fawn Creek  Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bachelor Creek Bloody Run	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104 11070104	37 56 59 39 31 62 28 49 58 61 25 55 55 52 60	Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bachelor Creek Bloody Run Bull Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104 11070104	37 56 59 39 31 62 28 49 58 61 25 55 52 60	Primary	Contact Recreation
Fawn Creek  Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bachelor Creek Bloody Run Bull Creek Card Creek Chetopa Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104 11070104 11070104	37 56 59 39 31 62 28 49 58 61 25 55 52 60 25 26 33	Primary	Contact Recreation
Fawn Creek  Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bloody Run Bull Creek Card Creek Chetopa Creek Clear Creek Clear Creek Clear Creek Clear Creek Clear Creek Clear Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104 11070104 11070104 11070104	37 56 59 39 31 62 28 49 58 61 25 55 52 60 25 26 33 19	Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bachelor Creek Bloody Run Bull Creek Card Creek Chetopa Creek Clear Creek Clear Creek Clear Creek Clear Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104 11070104 11070104 11070104 11070104 11070104	37 56 59 39 31 62 28 49 58 61 25 55 52 60 25 26 33 19 18	Primary	Contact Recreation
Fawn Creek  Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bloody Run Bull Creek Card Creek Chetopa Creek Clear Creek Clear Creek Coffey Branch	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104	37 56 59 39 31 62 28 49 58 61 25 55 52 60 25 26 33 19 18 30 32	Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bachelor Creek Bloody Run Bull Creek Card Creek Chetopa Creek Clear Creek	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104	37 56 59 39 31 62 28 49 58 61 25 55 52 60 25 26 33 19 18 30 32 20	Primary	Contact Recreation
Fawn Creek  Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bloody Run Bull Creek Card Creek Chetopa Creek Clear Creek Clear Creek Coffey Branch	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104	37 56 59 39 31 62 28 49 58 61 25 55 52 60 25 26 33 19 18 30 32 20	Primary	Contact Recreation
Fawn Creek  Mud Creek Onion Creek Potato Creek Prior Creek Prior Creek Richland Creek Rock Creek Rock Creek Snow Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bloody Run Bull Creek Card Creek Chetopa Creek Clear Creek Clear Creek Coffey Branch Duck Creek Elk River, Mound Branch	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104 11070104	37 56 59 39 31 62 28 49 58 61 25 55 52 60 25 26 33 19 18 30 32 20	Primary	Contact Recreation
Fawn Creek  Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bloody Run Bull Creek Card Creek Chetopa Creek Clear Creek Clear Creek Coffey Branch Duck Creek Elk River, Mound Branch Elk River, South Branch	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104	37 56 59 39 31 62 28 49 58 61 25 55 52 60 25 26 33 19 18 30 32 20 38	Primary	Contact Recreation
Fawn Creek  Mud Creek Onion Creek Potato Creek Prior Creek Prior Creek Richland Creek Rock Creek Rock Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bloody Run Bull Creek Card Creek Chetopa Creek Clear Creek Clear Creek Clefy Branch Duck Creek Elk River, Mound Branch Elk River, Rowe Branch Elk River, Rowe Branch	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104	37 56 59 39 31 62 28 49 58 61 25 55 52 60 25 26 33 19 18 30 32 20 3 3 3 3 3 3	Primary	Contact Recreation
Fawn Creek  Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bachelor Creek Bloody Run Bull Creek Card Creek Chetopa Creek Clear Creek Clear Creek Clear Creek Cleik River, Mound Branch Elk River, Rowe Branch Elm Branch	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104	37 56 59 39 31 31 62 28 49 58 61 25 55 52 60 25 33 19 18 30 32 20 33 31 32 20	Primary	Contact Recreation
Fawn Creek Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bloody Run Bull Creek Card Creek Card Creek Clear Creek Clear Creek Clefy Branch Duck Creek Elk River, Mound Branch Elk River, Rowe Branch  DELA Creek Donion Creek Mud Creek Dinion	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104	37 56 59 39 31 31 62 28 49 58 61 25 55 52 60 25 33 31 19 18 30 32 20 33 31 32 20 33 33 32 20	Primary	Contact Recreation
Fawn Creek  Mud Creek Onion Creek Potato Creek Prior Creek Pumpkin Creek Richland Creek Rock Creek Rock Creek Snow Creek Spring Creek Sycamore Creek Wildcat Creek Bachelor Creek Bloody Run Bull Creek Card Creek Chetopa Creek Clear Creek Clear Creek Clear Creek Cleir Creek Elk River, Mound Branch Elk River, Rowe Branch Elm Branch	11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070103 11070104	37 56 59 39 31 31 62 28 49 58 61 25 55 52 60 25 33 31 19 18 30 32 20 33 31 32 20 33 33 32 20	Primary	Contact Recreation

1/29/2019	ecifix — code of	rederal Regulations
Hitchen Creek, East	11070104	35 Primary Contact Recreation
Little Duck Creek	11070104	24 Primary Contact Recreation
Little Hitchen Creek	11070104	37 Primary Contact Recreation
Painterhood Creek	11070104	5 Primary Contact Recreation
Painterhood Creek. East	11070104	36 Primary Contact Recreation
Pan Creek	11070104	27 Primary Contact Recreation
		,
Pawpaw Creek	11070104	11 Primary Contact Recreation
Racket Creek	11070104	21 Primary Contact Recreation
Rock Creek	11070104	13 Primary Contact Recreation
Salt Creek	11070104	17 Primary Contact Recreation
Salt Creek, South	11070104	29 Primary Contact Recreation
Skull Creek	11070104	31 Primary Contact Recreation
Snake Creek	11070104	34 Primary Contact Recreation
		,
Sycamore Creek	11070104	22 Primary Contact Recreation
Wildcat Creek	11070104	
	Subbasin: Caney	1
Bachelor Creek	11070106	47 Primary Contact Recreation
Bee Creek	11070106	9 Primary Contact Recreation
California Creek	11070106	48 Primary Contact Recreation
Caney Creek	11070106	12 Primary Contact Recreation
, and the second		•
Caney River, East Fork	11070106	52 Primary Contact Recreation
Caney Creek, North	11070106	11 Primary Contact Recreation
Cedar Creek	11070106	30 Primary Contact Recreation
Cedar Creek	11070106	32 Primary Contact Recreation
Cheyenne Creek	11070106	40 Primary Contact Recreation
Coon Creek	11070106	36 Primary Contact Recreation
Corum Creek	11070106	51 Primary Contact Recreation
		,
Cotton Creek	11070106	38 Primary Contact Recreation
Cotton Creek, North Fork	11070106	37 Primary Contact Recreation
Dry Creek	11070106	29 Primary Contact Recreation
Fly Creek	11070106	46 Primary Contact Recreation
Illinois Creek	11070106	39 Primary Contact Recreation
Jim Creek	11070106	49 Primary Contact Recreation
Lake Creek	11070106	34 Primary Contact Recreation
		,
Otter Creek	11070106	33 Primary Contact Recreation
Pool Creek	11070106	43 Primary Contact Recreation
Possum Trot Creek	11070106	74 Primary Contact Recreation
Rock Creek	11070106	28 Primary Contact Recreation
Spring Creek	11070106	44 Primary Contact Recreation
Spring Creek	11070106	53 Primary Contact Recreation
Squaw Creek	11070106	42 Primary Contact Recreation
•		·
Sycamore Creek	11070106	31 Primary Contact Recreation
Turkey Creek	11070106	45 Primary Contact Recreation
Union Creek	11070106	41 Primary Contact Recreation
Wolf Creek	11070106	35 Primary Contact Recreation
Wolf Creek	11070106	50 Primary Contact Recreation
	Basin: Walnut	, · · · · · · · · · · · · · · · · · · ·
Subb	asin: Upper Walnu	ıt River
	11030017	
Badger Creek		36 Primary Contact Recreation
Bemis Creek	11030017	8 Primary Contact Recreation
Cole Creek	11030017	15 Primary Contact Recreation
Constant Creek	11030017	41 Primary Contact Recreation
Dry Creek	11030017	27 Primary Contact Recreation
Dry Creek	11030017	32 Primary Contact Recreation
Durechen Creek	11030017	12 Primary Contact Recreation
Elm Creek	11030017	43 Primary Contact Recreation
		,
Fourmile Creek	11030017	20 Primary Contact Recreation
Gilmore Branch	11030017	39 Primary Contact Recreation
Gypsum Creek	11030017	30 Primary Contact Recreation
Henry Creek	11030017	33 Primary Contact Recreation
Lower Branch	11030017	42 Primary Contact Recreation
Prairie Creek	11030017	35 Primary Contact Recreation
Rock Creek	11030017	37 Primary Contact Recreation
		29 Primary Contact Recreation
Sand Creek	11030017	
Satchel Creek	11030017	10 Primary Contact Recreation
School Branch	11030017	45 Primary Contact Recreation
Sutton Creek	11030017	40 Primary Contact Recreation
Walnut Creek	11030017	44 Primary Contact Recreation
Whitewater Creek	11030017	34 Primary Contact Recreation
Whitewater Creek, East Branch	11030017	31 Primary Contact Recreation
·		,
Whitewater River, East Branch	11030017	22 Primary Contact Recreation
Whitewater River, West Branch	11030017	24 Primary Contact Recreation
Whitewater River, West Branch	11030017	25 Primary Contact Recreation
		1

Wildcat Creek Wildcat Creek, West			
	11030017	26	Primary Contact Recreation
	11030017		Primary Contact Recreation
	sin: Lower Walnu		i filliary Contact Necreation
			Deimone Contact Dographics
Black Crook Creek	11030018		Primary Contact Recreation
Cedar Creek	11030018		Secondary Contact Recreation
Chigger Creek	11030018		Primary Contact Recreation
Crooked Creek	11030018	31	Primary Contact Recreation
Durham Creek	11030018	23	Primary Contact Recreation
Dutch Creek	11030018	2	Primary Contact Recreation
Dutch Creek	11030018	4	Primary Contact Recreation
Eightmile Creek	11030018		Primary Contact Recreation
Foos Creek	11030018		Primary Contact Recreation
Hickory Creek	11030018		Primary Contact Recreation
Honey Creek			Primary Contact Recreation
	11030018		,
Little Dutch Creek	11030018		Primary Contact Recreation
Lower Dutch Creek	11030018		Primary Contact Recreation
Plum Creek	11030018	36	Primary Contact Recreation
Polecat Creek	11030018	17	Primary Contact Recreation
Posey Creek	11030018	37	Primary Contact Recreation
Richland Creek	11030018	25	Primary Contact Recreation
Rock Creek, North Branch	11030018		Primary Contact Recreation
Sanford Creek	11030018		Primary Contact Recreation
	11030018		Primary Contact Recreation
Spring Branch			
Stalter Branch	11030018		Primary Contact Recreation
Stewart Creek	11030018		Primary Contact Recreation
Swisher Branch	11030018	22	Primary Contact Recreation
Total = 1186			
Lake name	County		Designated use
	Basin: Cimarron		<b>3</b>
Subhasin: III	pper Cimarron (H		
Moss Lake East	MORTON		Primary Contact Recreation
	MORTON		,
Moss Lake West			Primary Contact Recreation
	h Fork Cimarron	·	
Russell Lake	STEVENS		Primary Contact Recreation
Subbasin: Uppe	er Cimarron-Bluff	(HUC 11040008)	
Clark State Fishing Lake	CLARK	ļ	Primary Contact Recreation
Saint Jacob's Well	CLARK		Primary Contact Recreation
Basin: I	Kansas/Lower Re	publican	•
	Idle Republican (	•	
Lake Jewell	JEWELL		Primary Contact Recreation
	wer Republican (I		milary Contact Neoredation
	REPUBLIC		Primary Contact Recreation
Belleville City Lake Wakefield Lake			Primary Contact Recreation
	CLAY		Primary Contact Recreation
	liddle Kansas (Hl	JC 10270102)	
Alma City Reservoir	WABAUNSEE		Primary Contact Recreation
Alma City Reservoir Cedar Crest Pond	WABAUNSEE SHAWNEE		Primary Contact Recreation Primary Contact Recreation
·			
Cedar Crest Pond	SHAWNEE		Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake	SHAWNEE SHAWNEE		Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes	SHAWNEE SHAWNEE SHAWNEE POTTAWATOM	IIE	Primary Contact Recreation Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes Subbasin	SHAWNEE SHAWNEE SHAWNEE POTTAWATOM : Delaware (HUC	IIE 10270103)	Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes Subbasin Atchison County Park Lake	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON	IIE 10270103)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes Subbasin Atchison County Park Lake Little Lake	SHAWNEE SHAWNEE SHAWNEE POTTAWATOM Delaware (HUC ATCHISON BROWN	IIE 10270103)	Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes Subbasin Atchison County Park Lake Little Lake Subbasin: L	SHAWNEE SHAWNEE SHAWNEE POTTAWATOM Delaware (HUC ATCHISON BROWN Ower Kansas (HUC	IIE 10270103) JC 10270104)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake	SHAWNEE SHAWNEE SHAWNEE POTTAWATOM : Delaware (HUC ATCHISON BROWN .ower Kansas (HUC DOUGLAS	IIE 10270103) JC 10270104)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake Lenexa Lake	SHAWNEE SHAWNEE SHAWNEE POTTAWATOM : Delaware (HUC ATCHISON BROWN .ower Kansas (HUC DOUGLAS JOHNSON	IIE 10270103) JC 10270104)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake	SHAWNEE SHAWNEE SHAWNEE POTTAWATOM : Delaware (HUC ATCHISON BROWN .ower Kansas (HUC DOUGLAS	IIE 10270103) JC 10270104)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake Lenexa Lake	SHAWNEE SHAWNEE SHAWNEE POTTAWATOM : Delaware (HUC ATCHISON BROWN .ower Kansas (HUC DOUGLAS JOHNSON	IIE 10270103) JC 10270104)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond	SHAWNEE SHAWNEE SHAWNEE POTTAWATOM : Delaware (HUC ATCHISON BROWN .ower Kansas (HL DOUGLAS JOHNSON JOHNSON	IIE 10270103) JC 10270104)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER Kansas (HUC DOUGLAS JOHNSON WYANDOTTE JOHNSON	IIE 10270103) JC 10270104)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes Subbasin: Le	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER Kansas (HL DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON OWER BIG Blue (HI	JC 10270104)  UC 10270205)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes Lake Idlewild	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN DOWER Kansas (HU DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON DWER Big Blue (HI MARSHALL	JC 10270104)  UC 10270205)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes  Subbasin Atchison County Park Lake Little Lake  Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes  Subbasin: Le Lake Idlewild Subbasin: Lo	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER Kansas (HL DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON OWER Big Blue (HI MARSHALL WER Little Blue (HI	UC 10270205)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes  Subbasin Atchison County Park Lake Little Lake  Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes  Subbasin: Lo Washington County State Fishing Lake	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER KANSAS (HUC DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON OWER BIG Blue (HUC MARSHALL WER LITTLE BLUE (HUC)	UC 10270205)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes Lake Idlewild Subbasin: Lo Washington County State Fishing Lake Ba	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER KANSAS (HUC DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON OWER BIG Blue (HUC MARSHALL WER LITTLE Blue (FUC WASHINGTON SIN: LOWER ARAN	UC 10270205)  JUC 10270207)  JUC 10270207)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes  Subbasin Atchison County Park Lake Little Lake  Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes  Lake Idlewild Subbasin: Lo Washington County State Fishing Lake  Ba Subbasin:	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER KANSAS (HL DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON OWER BIG Blue (HI MARSHALL WER LITTLE BLUE (F WASHINGTON SIN: Lower Arkan Rattlesnake (HUC	UC 10270205)  JUC 10270207)  JUC 10270207)  JUC 10270207)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes  Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes Subbasin: L Lake Idlewild Subbasin: Lo Washington County State Fishing Lake Ba Subbasin: Kiowa County State Fishing Lake	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER KANSAS (HL DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON OWER BIG Blue (HU MARSHALL WER LITTLE Blue (H WASHINGTON SIN: Lower Arkan Rattlesnake (HUC KIOWA	UC 10270205)  UC 10270207)  Sas C 11030009)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes  Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes Subbasin: L Lake Idlewild Subbasin: Lo Washington County State Fishing Lake Ba Subbasin: Kiowa County State Fishing Lake	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER KANSAS (HL DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON OWER BIG Blue (HI MARSHALL WER LITTLE BLUE (F WASHINGTON SIN: Lower Arkan Rattlesnake (HUC	UC 10270205)  UC 10270207)  Sas C 11030009)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes  Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes Subbasin: L Lake Idlewild Subbasin: Lo Washington County State Fishing Lake Ba Subbasin: Kiowa County State Fishing Lake	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER KANSAS (HL DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON OWER BIG Blue (HU MARSHALL WER LITTLE Blue (H WASHINGTON SIN: Lower Arkan Rattlesnake (HUC KIOWA	UC 10270205)  JUC 10270207)  Sas C 11030009)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes Subbasin: Le Lake Idlewild Subbasin: Le Washington County State Fishing Lake Ba Subbasin: Kiowa County State Fishing Lake Subbasin:	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER KANSAS (HL DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON OWER BIG Blue (HU MARSHALL WER LITTLE Blue (F WASHINGTON Sin: Lower Arkan Rattlesnake (HUC KIOWA	UC 10270205)  UC 10270207)  Sas C 11030009)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes  Subbasin Atchison County Park Lake Little Lake  Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes  Subbasin: Lo Lake Idlewild Subbasin: Lo Washington County State Fishing Lake  Ba Subbasin: Kiowa County State Fishing Lake  Subbasin: County State Fishing Lake  Ba Subbasin: Kiowa County State Fishing Lake  Subbasin: County State Fishing Lake  Subbasin: County State Fishing Lake	SHAWNEE SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER KANSAS (HL DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON OWER BIG Blue (HU MARSHALL OWER Little Blue (HU WASHINGTON Sin: Lower Arkan Rattlesnake (HUC KIOWA Sin: Cow (HUC 11 BARTON RICE	UC 10270205)  UC 10270207)  Sas C 11030009)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes  Subbasin Atchison County Park Lake Little Lake  Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes  Subbasin: Lo Washington County State Fishing Lake  Ba Subbasin: Kiowa County State Fishing Lake  Subbasin: Kiowa County State Fishing Lake  Subbasin: Kiowa County State Fishing Lake  Subbasin: County State Fishing Lake  Subbasin: Kiowa County State Fishing Lake  Subbasin: County State Fishing Lake  Subbasin: County State Fishing Lake  Subbasin: County State Fishing Lake	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER KANSAS (HL DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON OWER BIG Blue (HU MARSHALL OWER LITTLE Blue (HU WASHINGTON SIN: Lower Arkan Rattlesnake (HUC KIOWA SIN: Cow (HUC 11 BARTON RICE	UC 10270205)  IUC 10270207)  sas C 11030009)  030011)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes  Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes  Subbasin: L Lake Idlewild Subbasin: Lo Washington County State Fishing Lake Ba Subbasin: Kiowa County State Fishing Lake Sterling City Lake Subbasin: L Dillon Park Lakes #1	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER KANSAS (HL DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON OWER BIG Blue (HU MARSHALL OWER LITTLE Blue (HU WASHINGTON SIN: Lower Arkan Rattlesnake (HUC KIOWA SIN: Cow (HUC 11 BARTON RICE ittle Arkansas (HU RENO	UC 10270205)  IUC 10270207)  sas C 11030009)  030011)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes  Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes  Subbasin: L Lake Idlewild Subbasin: Lo Washington County State Fishing Lake  Ba Subbasin: Kiowa County State Fishing Lake Sterling City Lake Subbasin: L Dillon Park Lakes #1 Dillon Park Lakes #2	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER KANSAS (HL DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON WARSHALL WER Little Blue (HUC WASHINGTON SIN: Lower Arkan Rattlesnake (HUC KIOWA SIN: Cow (HUC 11 BARTON RICE ittle Arkansas (HUC RENO	UC 10270205)  UC 10270207)  Sas C 11030009)  030011)  UC 11030012)	Primary Contact Recreation
Cedar Crest Pond Central Park Lake Gage Park Lake Jeffrey Energy Center Lakes  Subbasin Atchison County Park Lake Little Lake Subbasin: L Douglas County State Lake Lenexa Lake Mahaffie Farmstead Pond Pierson Park Lake Waterworks Lakes Subbasin: L Lake Idlewild Subbasin: Lo Washington County State Fishing Lake Ba Subbasin: Kiowa County State Fishing Lake Sterling City Lake Subbasin: L Dillon Park Lakes #1 Dillon Park Lake #2 Newton City Park Lake	SHAWNEE SHAWNEE SHAWNEE POTTAWATON Delaware (HUC ATCHISON BROWN OWER KANSAS (HL DOUGLAS JOHNSON JOHNSON WYANDOTTE JOHNSON OWER BIG Blue (HU MARSHALL OWER LITTLE Blue (HU WASHINGTON SIN: Lower Arkan Rattlesnake (HUC KIOWA SIN: Cow (HUC 11 BARTON RICE ittle Arkansas (HU RENO	UC 10270205)  UC 10270205)  UC 10270207)  Sas C 11030009)  030011)	Primary Contact Recreation

720/2010	Tre Code of Federal Regulation	110
Belaire Lake	SEDGWICK	Primary Contact Recreation
Buffalo Park Lake	SEDGWICK	Primary Contact Recreation
Emery Park	SEDGWICK	Primary Contact Recreation
Harrison Park Lake	SEDGWICK	Primary Contact Recreation
Riggs Park Lake	SEDGWICK	Primary Contact Recreation
00	Fork Ninnescah (HUC 11030015)	Filliary Contact Necreation
	. , ,	In
Lemon Park Lake	PRATT	Primary Contact Recreation
	dicine Lodge (HUC 11060003)	<del>_</del>
Barber County State Fishing Lake	BARBER	Primary Contact Recreation
Subbasin: Lower S	alt Fork Arkansas (HUC 11060004	.)
Hargis Lake	BARBER	Primary Contact Recreation
	: Marais Des Cygnes	
	arais Des Cygnes (HUC 10290101	1
	LYON	Primary Contact Recreation
Allen City Lake		,
Cedar Creek Lake	ANDERSON	Primary Contact Recreation
Crystal Lake	ANDERSON	Primary Contact Recreation
Lyon County State Fishing Lake	LYON	Primary Contact Recreation
Osage City Reservoir	OSAGE	Primary Contact Recreation
Waterworks Impoundment	ANDERSON	Primary Contact Recreation
	arais Des Cygnes (HUC 10290102	
Edgerton City Lake	JOHNSON	Primary Contact Recreation
Edgerton South Lake	JOHNSON	Primary Contact Recreation
Lake LaCygne	LINN	Primary Contact Recreation
Louisburg State Fishing Lake	MIAMI	Primary Contact Recreation
Miami County State Fishing Lake	MIAMI	Primary Contact Recreation
Paola City Lake	MIAMI	Primary Contact Recreation
Pleasanton Lake #1	LINN	Primary Contact Recreation
Pleasanton Lake #2	LINN	Primary Contact Recreation
		,
Spring Hill City Lake	JOHNSON	Primary Contact Recreation
	Marmaton (HUC 10290104)	
Gunn Park Lake, East	BOURBON	Primary Contact Recreation
Gunn Park Lake, West	BOURBON	Primary Contact Recreation
Rock Creek Lake	BOURBON	Primary Contact Recreation
	Basin: Missouri	
	ork Big Nemaha (HUC 10240007)	
Pony Creek Lake	NEMAHA	Primary Contact Recreation
,		,
Sabetha City Lake	NEMAHA	Primary Contact Recreation
	endence-Sugar (HUC 10240011)	
Atchison City Lakes	ATCHISON	Primary Contact Recreation
Big Eleven Lake	WYANDOTTE	Primary Contact Recreation
Doniphan Fair Association Lake	DONIPHAN	Primary Contact Recreation
Jerrys Lake	LEAVENWORTH	Primary Contact Recreation
Lansing City Lake	LEAVENWORTH	Primary Contact Recreation
South Park Lake	LEAVENWORTH	Primary Contact Recreation
	lissouri-Crooked (HUC 10300101)	
Prairie View Park	JOHNSON	Primary Contact Recreation
South Park Lake	JOHNSON	Primary Contact Recreation
Stanley Rural Water District Lake #2	JOHNSON	Primary Contact Recreation
Stohl Park Lake	JOHNSON	Primary Contact Recreation
	Basin: Neosho	
	er Cottonwood (HUC 11070203)	
	· · · · · · · · · · · · · · · · · · ·	Drimany Contact Doses Aires
Peter Pan Pond	LYON	Primary Contact Recreation
·	per Neosho (HUC 11070204)	T
Chanute City (Santa Fe) Lake	NEOSHO	Primary Contact Recreation
Leonard's Lake	WOODSON	Primary Contact Recreation
Subbasin: Mic	ddle Neosho (HUC 11070205)	
Altamont City Lake #1	LABETTE	Primary Contact Recreation
Bartlett City Lake	LABETTE	Primary Contact Recreation
·		
Harmon Wildlife Area Lakes	LABETTE	Primary Contact Recreation
Mined Land Wildlife Area Lakes	CHEROKEE	Primary Contact Recreation
Timber Lake	NEOSHO	Primary Contact Recreation
Subbasin	: Spring (HUC 11070207)	
Empire Lake	CHEROKEE	Primary Contact Recreation
Frontenac City Park	CRAWFORD	Primary Contact Recreation
Mined Land Wildlife Area Lakes	CRAWFORD	Primary Contact Recreation
Pittsburg College Lake	CRAWFORD	Primary Contact Recreation
Playters Lake	CRAWFORD	Primary Contact Recreation
	n: Smoky Hill/Saline	
Subbasin: Low	er Smoky Hill (HUC 10260008)	
	er Smoky Hill (HUC 10260008) DICKINSON	Primary Contact Recreation
Herington City Park Lake	DICKINSON	
Herington City Park Lake Herington Reservoir	DICKINSON DICKINSON	Primary Contact Recreation Primary Contact Recreation
Herington City Park Lake Herington Reservoir	DICKINSON	Primary Contact Recreation

Subbasin: Solomon River (HUC 10260015)			3
Jewell County State Fishing Lake   JEWELL   Primary Contact Recreation	Francis Wachs Wildlife Area Lakes		,
Dittawa County State Fishing Lake   Basin: Upper Arkansas   Subbasin: Middle Arkansas-Lake McKinney (HUC 11030001)		Subbasin: Solomon River (HUC 102600	015)
Basin: Upper Arkansas	Jewell County State Fishing Lake	JEWELL	Primary Contact Recreation
Subbasin: Middle Arkansas-Lake McKinney (HUC 11030001)  _ake McKinney   KEARNY   Primary Contact Recreation   Subbasin: Arkansas-Dodge City (HUC 11030003)  _ake Charles   FORD   Primary Contact Recreation   Subbasin: Pawnee (HUC 11030005)  Concannon State Fishing Lake   FINNEY   Primary Contact Recreation   Finney County Game Refuge Lakes   FINNEY   Primary Contact Recreation   Finney County Game Refuge Lakes   FINNEY   Primary Contact Recreation   Ford County Lake   FORD   Primary Contact Recreation   Ford County Lake   FORD   Primary Contact Recreation   Ford Subbasin: Upper Walnut Creek (HUC 11030006)   Ford Subbasin: Upper Walnut Creek (HUC 11030008)   Ford Subbasin: Lower Walnut Creek (HUC 11030008)   Formary Contact Recreation   Formary Contact Recreati	Ottawa County State Fishing Lake	OTTAWA	Primary Contact Recreation
Subbasin: Arkansas-Dodge City (HUC 11030003)  _ake Charles			
Subbasin: Arkansas-Dodge City (HUC 11030003)  _ake Charles	Subb	asin: Middle Arkansas-Lake McKinney (HU	IC 11030001)
Subbasin: Pawnee (HUC 11030005) Concannon State Fishing Lake FinNEY Finney County Game Refuge Lakes FinNEY Finney County Game Refuge Lakes FinNEY Finney County Lake Hain State Fishing Lake FoRD Ford County Lake Hain State Fishing Lake FoRD Ford Subbasin: Upper Walnut Creek (HUC 11030006) Ford Subbasin: Upper Walnut Creek (HUC 11030007) Ford County Lake Ford Primary Contact Recreation Subbasin: Upper Walnut Creek (HUC 11030007) Formary Contact Recreation Ford County Lake BARTON Formary Contact Recreation Ford County Value Formary Contact Recreation Forma	Lake McKinney	KEARNY	Primary Contact Recreation
Subbasin: Pawnee (HUC 11030005) Concannon State Fishing Lake   FINNEY   Primary Contact Recreation   Finney County Game Refuge Lakes   FINNEY   Primary Contact Recreation   Subbasin: Buckner (HUC 11030006) Ford County Lake   FORD   Primary Contact Recreation   Ford Description   Primary Contact Recreation   Ford Desc		Subbasin: Arkansas-Dodge City (HUC 110	30003)
Concannon State Fishing Lake FINNEY Frimary Contact Recreation Finney County Game Refuge Lakes FINNEY Primary Contact Recreation  Subbasin: Buckner (HUC 11030006) FORD Ford County Lake FORD Ford Primary Contact Recreation  Subbasin: Upper Walnut Creek (HUC 11030007) FORD Ford Subbasin: Upper Walnut Creek (HUC 11030007) FORD Ford Subbasin: Upper Walnut Creek (HUC 11030007) FORD Ford Subbasin: Lower Walnut Creek (HUC 11030008)  Memorial Park Lake BARTON Formary Contact Recreation Formary Contact Recreation  Subbasin: Verdigris  Subbasin: Verdigris Formary Contact Recreation  Basin: Verdigris Formary Contact Recreation Formary Contact Re	Lake Charles	FORD	Primary Contact Recreation
Finney County Game Refuge Lakes  Subbasin: Buckner (HUC 11030006) Ford County Lake Hain State Fishing Lake Subbasin: Upper Walnut Creek (HUC 11030007) Goodman State Fishing Lake Subbasin: Upper Walnut Creek (HUC 11030007) Goodman State Fishing Lake NESS Primary Contact Recreation Subbasin: Lower Walnut Creek (HUC 11030008) Memorial Park Lake BARTON Primary Contact Recreation Basin: Verdigris Subbasin: Upper Verdigris (HUC 11070101) Quarry Lake NEOSHO Primary Contact Recreation NEOSHO Primary Contact Recreation Primary Contact Recreation NEOSHO Primary Contact Recreation NEOSHO Primary Contact Recreation Primary Contact Recreation Subbasin: Middle Verdigris (HUC 11070103) AC Claire Lake MONTGOMERY Primary Contact Recreation Primary Contact Recreation Subbasin: Caney (HUC 11070106) Caney City Lake CHAUTAUQUA Primary Contact Recreation Basin: Walnut Subbasin: Lower Walnut River (HUC 11030018) Sublasin: Lower Walnut River (HUC 11030018) Suttler County State Fishing Lake Primary Contact Recreation		Subbasin: Pawnee (HUC 11030005)	
Subbasin: Buckner (HUC 11030006) Ford County Lake FORD Finary Contact Recreation FORD Primary Contact Recreation Primary Contact Recreation Subbasin: Upper Walnut Creek (HUC 11030007)  Soodman State Fishing Lake NESS Primary Contact Recreation Subbasin: Lower Walnut Creek (HUC 11030008)  Memorial Park Lake BARTON Primary Contact Recreation Stone Lake BARTON Primary Contact Recreation Subbasin: Verdigris Subbasin: Verdigris WILSON Primary Contact Recreation Primary Contact Recreation Subbasin: Wilson Primary Contact Recreation Primary Contact Recreation MEOSHO Primary Contact Recreation Primary Contact Recreation MONTGOMERY Primary Contact Recreation Subbasin: Middle Verdigris (HUC 11070103)  La Claire Lake MONTGOMERY Primary Contact Recreation MONTGOMERY Primary Contact Recreation Subbasin: Caney (HUC 11070106) Caney City Lake CHAUTAUQUA Primary Contact Recreation Basin: Walnut Subbasin: Lower Walnut River (HUC 11030018)  Butter County State Fishing Lake Minfield Park Lagoon Primary Contact Recreation	Concannon State Fishing Lake	FINNEY	Primary Contact Recreation
Ford County Lake FORD Primary Contact Recreation FORD Primary Contact Recreation FORD Primary Contact Recreation FORD Primary Contact Recreation Subbasin: Upper Walnut Creek (HUC 11030007)  Goodman State Fishing Lake NESS Primary Contact Recreation Subbasin: Lower Walnut Creek (HUC 11030008)  Memorial Park Lake BARTON Primary Contact Recreation BARTON Primary Contact Recreation Subbasin: Upper Verdigris (HUC 11070101)  Quarry Lake NEOSHO Primary Contact Recreation Subbasin: Middle Verdigris (HUC 11070103)  La Claire Lake NEOSHO Primary Contact Recreation Subbasin: Caney (HUC 11070106)  Caney City Lake CHAUTAUQUA Primary Contact Recreation Basin: Walnut River (HUC 11030018)  Subbasin: Lower Walnut River (HUC 11030018)  Butter County State Fishing Lake BUTLER Primary Contact Recreation  Winfield Park Lagoon COWLEY Primary Contact Recreation	Finney County Game Refuge Lakes	FINNEY	Primary Contact Recreation
Hain State Fishing Lake  Subbasin: Upper Walnut Creek (HUC 11030007)  Goodman State Fishing Lake  NESS Primary Contact Recreation  Subbasin: Lower Walnut Creek (HUC 11030008)  Memorial Park Lake  BARTON Primary Contact Recreation  BARTON Primary Contact Recreation  BARTON Primary Contact Recreation  Basin: Verdigris  Subbasin: Upper Verdigris (HUC 11070101)  Quarry Lake  WILSON Primary Contact Recreation  Thayer New City Lake  Subbasin: Middle Verdigris (HUC 11070103)  La Claire Lake MONTGOMERY Primary Contact Recreation  MONTGOMERY Primary Contact Recreation  Subbasin: Caney (HUC 11070106)  Caney City Lake CHAUTAUQUA Primary Contact Recreation  Subbasin: Lower Walnut  Subbasin: Lower Walnut  Subhasin: Lower Walnut River (HUC 11030018)  Buttler County State Fishing Lake Winfield Park Lagoon  Primary Contact Recreation  Buttler (HUC 11030018)  Buttler County State Fishing Lake Primary Contact Recreation		Subbasin: Buckner (HUC 11030006)	
Subbasin: Upper Walnut Creek (HUC 11030007) Goodman State Fishing Lake  Subbasin: Lower Walnut Creek (HUC 11030008)  Memorial Park Lake  BARTON  BARTON  Primary Contact Recreation  Basin: Verdigris  Subbasin: Upper Verdigris (HUC 11070101)  Quarry Lake  WILSON  Primary Contact Recreation  NEOSHO  Primary Contact Recreation  Primary Contact Recreation  MONTGOMERY  Primary Contact Recreation  Primary Contact Recreation  Subbasin: Middle Verdigris (HUC 11070103)  La Claire Lake  MONTGOMERY  Primary Contact Recreation  MONTGOMERY  Primary Contact Recreation  Subbasin: Caney (HUC 11070106)  Caney City Lake  CHAUTAUQUA  Primary Contact Recreation  Basin: Walnut  Subbasin: Lower Walnut River (HUC 11030018)  Butter County State Fishing Lake  Winfield Park Lagoon  Primary Contact Recreation  Primary Contact Recreation	Ford County Lake	FORD	Primary Contact Recreation
Subbasin: Lower Walnut Creek (HUC 11030008)  Memorial Park Lake  BARTON BARTON Primary Contact Recreation  BARTON Primary Contact Recreation  Basin: Verdigris  Subbasin: Upper Verdigris (HUC 11070101)  Quarry Lake NEOSHO Primary Contact Recreation  REOSHO Primary Contact Recreation  Primary Contact Recreation  NEOSHO Primary Contact Recreation  Subbasin: Middle Verdigris (HUC 11070103)  La Claire Lake MONTGOMERY Primary Contact Recreation  MONTGOMERY Primary Contact Recreation  Subbasin: Caney (HUC 11070106)  Caney City Lake CHAUTAUQUA Primary Contact Recreation  Subbasin: Walnut Subbasin: Lower Walnut River (HUC 11030018)  Buttler County State Fishing Lake Winfield Park Lagoon  Primary Contact Recreation  Primary Contact Recreation  Primary Contact Recreation  Primary Contact Recreation  Buttler  Buttler  COWLEY Primary Contact Recreation	Hain State Fishing Lake	FORD	Primary Contact Recreation
Subbasin: Lower Walnut Creek (HUC 11030008)  Memorial Park Lake BARTON Primary Contact Recreation  Basin: Verdigris  Subbasin: Upper Verdigris (HUC 11070101)  Quarry Lake WILSON Primary Contact Recreation  MESOHO Primary Contact Recreation  Primary Contact Recreation  MESOHO Primary Contact Recreation  Subbasin: Middle Verdigris (HUC 11070103)  La Claire Lake MONTGOMERY Primary Contact Recreation  MONTGOMERY Primary Contact Recreation  MONTGOMERY Primary Contact Recreation  Subbasin: Caney (HUC 11070106)  Caney City Lake CHAUTAUQUA Primary Contact Recreation  Basin: Walnut  Subbasin: Lower Walnut River (HUC 11030018)  Butter County State Fishing Lake Winfield Park Lagoon Primary Contact Recreation		Subbasin: Upper Walnut Creek (HUC 1103	30007)
Memorial Park Lake BARTON Bestin: Verdigris Subbasin: Upper Verdigris (HUC 11070101) Quarry Lake MILSON MEOSHO MONTGOMERY MONTGOMERY MONTGOMERY MONTGOMERY Subbasin: Walture Montgous Montgous Subbasin: Walture Montgous Montgous Subbasin: Walture Montgous Montgous Subbasin: Caney (HUC 11070106) Caney City Lake Montgous Subbasin: Walture Montgous Montgous Subbasin: Caney (HUC 11070106) Caney City Lake Montgous Montgous Subbasin: Walture Montgous Montgous Subbasin: Caney (HUC 11070106) Caney City Lake Basin: Walnut Subbasin: Lower Walnut River (HUC 11030018) Butter County State Fishing Lake Minfield Park Lagoon Minfield Park Lagoon Montgous Montgo	Goodman State Fishing Lake	NESS	Primary Contact Recreation
Basin: Verdigris  Subbasin: Upper Verdigris (HUC 11070101)  Quarry Lake  WILSON Primary Contact Recreation  Subbasin: Middle Verdigris (HUC 11070103)  Primary Contact Recreation  MONTGOMERY Primary Contact Recreation  Primary Contact Recreation  Subbasin: Caney (HUC 11070106)  Caney City Lake CHAUTAUQUA Primary Contact Recreation  Basin: Walnut  Subbasin: Lower Walnut River (HUC 11030018)  Buttler County State Fishing Lake Winfield Park Lagoon  Primary Contact Recreation		Subbasin: Lower Walnut Creek (HUC 1103	30008)
Basin: Verdigris  Subbasin: Upper Verdigris (HUC 11070101)  Quarry Lake  WILSON Primary Contact Recreation  Thayer New City Lake  Subbasin: Middle Verdigris (HUC 11070103)  La Claire Lake MONTGOMERY Primary Contact Recreation  MONTGOMERY Primary Contact Recreation  MONTGOMERY Primary Contact Recreation  Subbasin: Caney (HUC 11070106)  Caney City Lake CHAUTAUQUA Primary Contact Recreation  Basin: Walnut  Subbasin: Lower Walnut River (HUC 11030018)  Butter County State Fishing Lake Winfield Park Lagoon  Primary Contact Recreation  Butter Cowley Primary Contact Recreation  Primary Contact Recreation  Primary Contact Recreation  Butter Primary Contact Recreation  Primary Contact Recreation	Memorial Park Lake	BARTON	Primary Contact Recreation
Subbasin: Upper Verdigris (HUC 11070101)  Quarry Lake  WILSON Primary Contact Recreation  Thayer New City Lake  Subbasin: Middle Verdigris (HUC 11070103)  La Claire Lake MONTGOMERY Primary Contact Recreation  MONTGOMERY Primary Contact Recreation  MONTGOMERY Primary Contact Recreation  Subbasin: Caney (HUC 11070106)  Caney City Lake CHAUTAUQUA Primary Contact Recreation  Basin: Walnut  Subbasin: Lower Walnut River (HUC 11030018)  Butter County State Fishing Lake Winfield Park Lagoon  Subbasin: CowLEY Primary Contact Recreation  Primary Contact Recreation  Primary Contact Recreation	Stone Lake	BARTON	Primary Contact Recreation
Quarry Lake  WILSON Primary Contact Recreation Player New City Lake  Subbasin: Middle Verdigris (HUC 11070103)  La Claire Lake MONTGOMERY Primary Contact Recreation Prister Park Lakes MONTGOMERY Primary Contact Recreation MONTGOMERY Primary Contact Recreation  Subbasin: Caney (HUC 11070106)  Caney City Lake CHAUTAUQUA Primary Contact Recreation  Basin: Walnut  Subbasin: Lower Walnut River (HUC 11030018)  Butler County State Fishing Lake Winfield Park Lagoon Primary Contact Recreation  BUTLER Primary Contact Recreation		Basin: Verdigris	
Thayer New City Lake  Subbasin: Middle Verdigris (HUC 11070103)  La Claire Lake  MONTGOMERY Primary Contact Recreation  MONTGOMERY Primary Contact Recreation  MONTGOMERY Primary Contact Recreation  Subbasin: Caney (HUC 11070106)  Caney City Lake CHAUTAUQUA Primary Contact Recreation  Basin: Walnut  Subbasin: Lower Walnut River (HUC 11030018)  Butler County State Fishing Lake Winfield Park Lagoon Primary Contact Recreation  BUTLER Primary Contact Recreation		Subbasin: Upper Verdigris (HUC 11070	101)
Subbasin: Middle Verdigris (HUC 11070103)  La Claire Lake MONTGOMERY Primary Contact Recreation  Prister Park Lakes MONTGOMERY Primary Contact Recreation  Subbasin: Caney (HUC 11070106)  Caney City Lake CHAUTAUQUA Primary Contact Recreation  Basin: Walnut  Subbasin: Lower Walnut River (HUC 11030018)  Butler County State Fishing Lake BUTLER Primary Contact Recreation  Winfield Park Lagoon COWLEY Primary Contact Recreation	Quarry Lake	WILSON	Primary Contact Recreation
La Claire Lake MONTGOMERY Primary Contact Recreation Prister Park Lakes MONTGOMERY Primary Contact Recreation  Subbasin: Caney (HUC 11070106)  Caney City Lake CHAUTAUQUA Primary Contact Recreation  Basin: Walnut  Subbasin: Lower Walnut River (HUC 11030018)  Butler County State Fishing Lake BUTLER Primary Contact Recreation  Winfield Park Lagoon COWLEY Primary Contact Recreation	Thayer New City Lake	NEOSHO	Primary Contact Recreation
Pfister Park Lakes MONTGOMERY Primary Contact Recreation  Subbasin: Caney (HUC 11070106)  Caney City Lake CHAUTAUQUA Primary Contact Recreation  Basin: Walnut  Subbasin: Lower Walnut River (HUC 11030018)  Butler County State Fishing Lake BUTLER Primary Contact Recreation  Winfield Park Lagoon COWLEY Primary Contact Recreation		Subbasin: Middle Verdigris (HUC 11070	103)
Subbasin: Caney (HUC 11070106)  Caney City Lake CHAUTAUQUA Primary Contact Recreation  Basin: Walnut  Subbasin: Lower Walnut River (HUC 11030018)  Butler County State Fishing Lake BUTLER Primary Contact Recreation  Winfield Park Lagoon COWLEY Primary Contact Recreation	La Claire Lake	MONTGOMERY	Primary Contact Recreation
Caney City Lake  CHAUTAUQUA  Basin: Walnut  Subbasin: Lower Walnut River (HUC 11030018)  Butler County State Fishing Lake  Winfield Park Lagoon  COWLEY  Primary Contact Recreation  Primary Contact Recreation  Primary Contact Recreation	Pfister Park Lakes	MONTGOMERY	Primary Contact Recreation
Basin: Walnut Subbasin: Lower Walnut River (HUC 11030018) Butler County State Fishing Lake BUTLER Primary Contact Recreation Winfield Park Lagoon COWLEY Primary Contact Recreation		Subbasin: Caney (HUC 11070106)	·
Subbasin: Lower Walnut River (HUC 11030018)  Butler County State Fishing Lake  BUTLER  Primary Contact Recreation  Winfield Park Lagoon  COWLEY  Primary Contact Recreation	Caney City Lake	CHAUTAUQUA	Primary Contact Recreation
Butler County State Fishing Lake BUTLER Primary Contact Recreation  Winfield Park Lagoon COWLEY Primary Contact Recreation		Basin: Walnut	
Winfield Park Lagoon COWLEY Primary Contact Recreation		Subbasin: Lower Walnut River (HUC 1103	30018)
ů ,	Butler County State Fishing Lake	BUTLER	Primary Contact Recreation
Total = 100	Winfield Park Lagoon	COWLEY	Primary Contact Recreation
	Total = 100		

(c) Water quality standard variances. The Regional Administrator, EPA Region 7, is authorized to grant variances from the water quality standards in paragraphs (a) and (b) of this section where the requirements of §131.14 are met.

[68 FR 40442, July 7, 2003, as amended at 80 FR 51050, Aug. 21, 2015]

### ♣ Back to Top

#### §131.35 Colville Confederated Tribes Indian Reservation.

The water quality standards applicable to the waters within the Colville Indian Reservation, located in the State of Washington.

- (a) Background. (1) It is the purpose of these Federal water quality standards to prescribe minimum water quality requirements for the surface waters located within the exterior boundaries of the Colville Indian Reservation to ensure compliance with section 303(c) of the Clean Water Act.
- (2) The Colville Confederated Tribes have a primary interest in the protection, control, conservation, and utilization of the water resources of the Colville Indian Reservation. Water quality standards have been enacted into tribal law by the Colville Business Council of the Confederated Tribes of the Colville Reservation, as the Colville Water Quality Standards Act, CTC Title 33 (Resolution No. 1984-526 (August 6, 1984) as amended by Resolution No. 1985-20 (January 18, 1985)).
- (b) *Territory covered*. The provisions of these water quality standards shall apply to all surface waters within the exterior boundaries of the Colville Indian Reservation.
- (c) Applicability, Administration and Amendment. (1) The water quality standards in this section shall be used by the Regional Administrator for establishing any water quality based National Pollutant Discharge Elimination System Permit (NPDES) for point sources on the Colville Confederated Tribes Reservation.
- (2) In conjunction with the issuance of section 402 or section 404 permits, the Regional Administrator may designate mixing zones in the waters of the United States on the reservation on a case-by-case basis. The size of such mixing zones and the in-zone water quality in such mixing zones shall be consistent with the applicable procedures and guidelines in EPA's Water Quality Standards Handbook and the Technical Support Document for Water Quality Based Toxics Control.
  - (3) Amendments to the section at the request of the Tribe shall proceed in the following manner.

- (i) The requested amendment shall first be duly approved by the Confederated Tribes of the Colville Reservation (and so certified by the Tribes Legal Counsel) and submitted to the Regional Administrator.
- (ii) The requested amendment shall be reviewed by EPA (and by the State of Washington, if the action would affect a boundary water).
- (iii) If deemed in compliance with the Clean Water Act, EPA will propose and promulgate an appropriate change to this section.
- (4) Amendment of this section at EPA's initiative will follow consultation with the Tribe and other appropriate entities. Such amendments will then follow normal EPA rulemaking procedures.
- (5) All other applicable provisions of this part 131 shall apply on the Colville Confederated Tribes Reservation. Special attention should be paid to §§131.6, 131.10, 131.11 and 131.20 for any amendment to these standards to be initiated by the Tribe.
- (6) All numeric criteria contained in this section apply at all in-stream flow rates greater than or equal to the flow rate calculated as the minimum 7-consecutive day average flow with a recurrence frequency of once in ten years (7Q10); narrative criteria (§131.35(e)(3)) apply regardless of flow. The 7Q10 low flow shall be calculated using methods recommended by the U.S. Geological Survey.
- (d) *Definitions*. (1) *Acute toxicity* means a deleterious response (e.g., mortality, disorientation, immobilization) to a stimulus observed in 96 hours or less.
- (2) Background conditions means the biological, chemical, and physical conditions of a water body, upstream from the point or non-point source discharge under consideration. Background sampling location in an enforcement action will be upstream from the point of discharge, but not upstream from other inflows. If several discharges to any water body exist, and an enforcement action is being taken for possible violations to the standards, background sampling will be undertaken immediately upstream from each discharge.
- (3) Ceremonial and Religious water use means activities involving traditional Native American spiritual practices which involve, among other things, primary (direct) contact with water.
- (4) Chronic toxicity means the lowest concentration of a constituent causing observable effects (i.e., considering lethality, growth, reduced reproduction, etc.) over a relatively long period of time, usually a 28-day test period for small fish test species.
  - (5) Council or Tribal Council means the Colville Business Council of the Colville Confederated Tribes.
  - (6) Geometric mean means the nth root of a product of n factors.
- (7) *Mean retention time* means the time obtained by dividing a reservoir's mean annual minimum total storage by the non-zero 30-day, ten-year low-flow from the reservoir.
- (8) *Mixing zone* or *dilution zone* means a limited area or volume of water where initial dilution of a discharge takes place; and where numeric water quality criteria can be exceeded but acutely toxic conditions are prevented from occurring.
  - (9) pH means the negative logarithm of the hydrogen ion concentration.
- (10) *Primary contact recreation* means activities where a person would have direct contact with water to the point of complete submergence, including but not limited to skin diving, swimming, and water skiing.
  - (11) Regional Administrator means the Administrator of EPA's Region X.
- (12) Reservation means all land within the limits of the Colville Indian Reservation, established on July 2, 1872 by Executive Order, presently containing 1,389,000 acres more or less, and under the jurisdiction of the United States government, notwithstanding the issuance of any patent, and including rights-of-way running through the reservation.
- (13) Secondary contact recreation means activities where a person's water contact would be limited to the extent that bacterial infections of eyes, ears, respiratory, or digestive systems or urogenital areas would normally be avoided (such as wading or fishing).
- (14) *Surface water* means all water above the surface of the ground within the exterior boundaries of the Colville Indian Reservation including but not limited to lakes, ponds, reservoirs, artificial impoundments, streams, rivers, springs, seeps and wetlands.
  - (15) Temperature means water temperature expressed in Centigrade degrees (C).

- (16) *Total dissolved solids* (TDS) means the total filterable residue that passes through a standard glass fiber filter disk and remains after evaporation and drying to a constant weight at 180 degrees C. it is considered to be a measure of the dissolved salt content of the water.
  - (17) Toxicity means acute and/or chronic toxicity.
  - (18) Tribe or Tribes means the Colville Confederated Tribes.
- (19) *Turbidity* means the clarity of water expressed as nephelometric turbidity units (NTU) and measured with a calibrated turbidimeter.
- (20) Wildlife habitat means the waters and surrounding land areas of the Reservation used by fish, other aquatic life and wildlife at any stage of their life history or activity.
- (e) *General considerations*. The following general guidelines shall apply to the water quality standards and classifications set forth in the use designation Sections.
- (1) Classification boundaries. At the boundary between waters of different classifications, the water quality standards for the higher classification shall prevail.
  - (2) Antidegradation policy. This antidegradation policy shall be applicable to all surface waters of the Reservation.
- (i) Existing in-stream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected.
- (ii) Where the quality of the waters exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water, that quality shall be maintained and protected unless the Regional Administrator finds, after full satisfaction of the inter-governmental coordination and public participation provisions of the Tribes' continuing planning process, that allowing lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located. In allowing such degradation or lower water quality, the Regional Administrator shall assure water quality adequate to protect existing uses fully. Further, the Regional Administrator shall assure that there shall be achieved the highest statutory and regulatory requirements for all new and existing point sources and all cost-effective and reasonable best management practices for nonpoint source control.
- (iii) Where high quality waters are identified as constituting an outstanding national or reservation resource, such as waters within areas designated as unique water quality management areas and waters otherwise of exceptional recreational or ecological significance, and are designated as special resource waters, that water quality shall be maintained and protected.
- (iv) In those cases where potential water quality impairment associated with a thermal discharge is involved, this antidegradation policy's implementing method shall be consistent with section 316 of the Clean Water Act.
- (3) Aesthetic qualities. All waters within the Reservation, including those within mixing zones, shall be free from substances, attributable to wastewater discharges or other pollutant sources, that:
  - (i) Settle to form objectionable deposits;
  - (ii) Float as debris, scum, oil, or other matter forming nuisances;
  - (iii) Produce objectionable color, odor, taste, or turbidity;
  - (iv) Cause injury to, are toxic to, or produce adverse physiological responses in humans, animals, or plants; or
  - (v) produce undesirable or nuisance aquatic life.
- (4) Analytical methods. (i) The analytical testing methods used to measure or otherwise evaluate compliance with water quality standards shall to the extent practicable, be in accordance with the "Guidelines Establishing Test Procedures for the Analysis of Pollutants" (40 CFR part 136). When a testing method is not available for a particular substance, the most recent edition of "Standard Methods for the Examination of Water and Wastewater" (published by the American Public Health Association, American Water Works Association, and the Water Pollution Control Federation) and other or superseding methods published and/or approved by EPA shall be used.
- (f) General water use and criteria classes. The following criteria shall apply to the various classes of surface waters on the Colville Indian Reservation:
  - (1) Class I (Extraordinary)—(i) Designated uses. The designated uses include, but are not limited to, the following:

- (A) Water supply (domestic, industrial, agricultural).
- (B) Stock watering.
- (C) Fish and shellfish: Salmonid migration, rearing, spawning, and harvesting; other fish migration, rearing, spawning, and harvesting.
  - (D) Wildlife habitat.
  - (E) Ceremonial and religious water use.
  - (F) Recreation (primary contact recreation, sport fishing, boating and aesthetic enjoyment).
  - (G) Commerce and navigation.
- (ii) Water quality criteria. (A) Bacteriological Criteria. The geometric mean of the enterococci bacteria densities in samples taken over a 30 day period shall not exceed 8 per 100 milliliters, nor shall any single sample exceed an enterococci density of 35 per 100 milliliters. These limits are calculated as the geometric mean of the collected samples approximately equally spaced over a thirty day period.
  - (B) Dissolved oxygen—The dissolved oxygen shall exceed 9.5 mg/l.
- (C) Total dissolved gas—concentrations shall not exceed 110 percent of the saturation value for gases at the existing atmospheric and hydrostatic pressures at any point of sample collection.
- (D) Temperature—shall not exceed 16.0 degrees C due to human activities. Temperature increases shall not, at any time, exceed t = 23/(T + 5).
- (1) When natural conditions exceed 16.0 degrees C, no temperature increase will be allowed which will raise the receiving water by greater than 0.3 degrees C.
- (2) For purposes hereof, "t" represents the permissive temperature change across the dilution zone; and "T" represents the highest existing temperature in this water classification outside of any dilution zone.
- (3) Provided that temperature increase resulting from nonpoint source activities shall not exceed 2.8 degrees C, and the maximum water temperature shall not exceed 10.3 degrees C.
  - (E) pH shall be within the range of 6.5 to 8.5 with a human-caused variation of less than 0.2 units.
- (F) Turbidity shall not exceed 5 NTU over background turbidity when the background turbidity is 50 NTU or less, or have more than a 10 percent increase in turbidity when the background turbidity is more than 50 NTU.
- (G) Toxic, radioactive, nonconventional, or deleterious material concentrations shall be less than those of public health significance, or which may cause acute or chronic toxic conditions to the aquatic biota, or which may adversely affect designated water uses.
  - (2) Class II (Excellent)—(i) Designated uses. The designated uses include but are not limited to, the following:
  - (A) Water supply (domestic, industrial, agricultural).
  - (B) Stock watering.
- (C) Fish and shellfish: Salmonid migration, rearing, spawning, and harvesting; other fish migration, rearing, spawning, and harvesting; crayfish rearing, spawning, and harvesting.
  - (D) Wildlife habitat.
  - (E) Ceremonial and religious water use.
  - (F) Recreation (primary contact recreation, sport fishing, boating and aesthetic enjoyment).
  - (G) Commerce and navigation.
- (ii) Water quality criteria. (A) Bacteriological Criteria—The geometric mean of the enterococci bacteria densities in samples taken over a 30 day period shall not exceed 16/100 ml, nor shall any single sample exceed an enterococci density of 75 per 100 milliliters. These limits are calculated as the geometric mean of the collected samples approximately equally spaced over a thirty day period.

- (B) Dissolved oxygen—The dissolved oxygen shall exceed 8.0 mg/l.
- (C) Total dissolved gas—concentrations shall not exceed 110 percent of the saturation value for gases at the existing atmospheric and hydrostatic pressures at any point of sample collection.
- (D) Temperature-shall not exceed 18.0 degrees C due to human activities. Temperature increases shall not, at any time, exceed t = 28/(T + 7).
- (1) When natural conditions exceed 18 degrees C no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3 degrees C.
- (2) For purposes hereof, "t" represents the permissive temperature change across the dilution zone; and "T" represents the highest existing temperature in this water classification outside of any dilution zone.
- (3) Provided that temperature increase resulting from non-point source activities shall not exceed 2.8 degrees C, and the maximum water temperature shall not exceed 18.3 degrees C.
  - (E) pH shall be within the range of 6.5 to 8.5 with a human-caused variation of less than 0.5 units.
- (F) Turbidity shall not exceed 5 NTU over background turbidity when the background turbidity is 50 NTU or less, or have more than a 10 percent increase in turbidity when the background turbidity is more than 50 NTU.
- (G) Toxic, radioactive, nonconventional, or deleterious material concentrations shall be less than those of public health significance, or which may cause acute or chronic toxic conditions to the aquatic biota, or which may adversely affect designated water uses.
  - (3) Class III (Good)—(i) Designated uses. The designated uses include but are not limited to, the following:
  - (A) Water supply (industrial, agricultural).
  - (B) Stock watering.
- (C) Fish and shellfish: Salmonid migration, rearing, spawning, and harvesting; other fish migration, rearing, spawning, and harvesting; crayfish rearing, spawning, and harvesting.
  - (D) Wildlife habitat.
  - (E) Recreation (secondary contact recreation, sport fishing, boating and aesthetic enjoyment).
  - (F) Commerce and navigation.
- (ii) Water quality criteria. (A) Bacteriological Criteria—The geometric mean of the enterococci bacteria densities in samples taken over a 30 day period shall not exceed 33/100 ml, nor shall any single sample exceed an enterococci density of 150 per 100 milliliters. These limits are calculated as the geometric mean of the collected samples approximately equally spaced over a thirty day period.
  - (B) Dissolved oxygen.

	Early life stages <sup>1 2</sup>	Other life stages
7 day mean	9.5 (6.5)	<sup>3</sup> NA
1 day minimum <sup>4</sup>	8.0 (5.0)	6.5

<sup>1</sup>These are water column concentrations recommended to achieve the required intergravel dissolved oxygen concentrations shown in parentheses. The 3 mg/L differential is discussed in the dissolved oxygen criteria document (EPA 440/5-86-003, April 1986). For species that have early life stages exposed directly to the water column, the figures in parentheses apply.

<sup>2</sup>Includes all embryonic and larval stages and all juvenile forms to 30-days following hatching.

<sup>3</sup>NA (not applicable)

- <sup>4</sup>All minima should be considered as instantaneous concentrations to be achieved at all times.
- (C) Total dissolved gas concentrations shall not exceed 110 percent of the saturation value for gases at the existing atmospheric and hydrostatic pressures at any point of sample collection.

- (D) Temperature shall not exceed 21.0 degrees C due to human activities. Temperature increases shall not, at any time, exceed t = 34/(T + 9).
- (1) When natural conditions exceed 21.0 degrees C no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3 degrees C.
- (2) For purposes hereof, "t" represents the permissive temperature change across the dilution zone; and "T" represents the highest existing temperature in this water classification outside of any dilution zone.
- (3) Provided that temperature increase resulting from nonpoint source activities shall not exceed 2.8 degrees C, and the maximum water temperature shall not exceed 21.3 degrees C.
  - (E) pH shall be within the range of 6.5 to 8.5 with a human-caused variation of less than 0.5 units.
- (F) Turbidity shall not exceed 10 NTU over background turbidity when the background turbidity is 50 NTU or less, or have more than a 20 percent increase in turbidity when the background turbidity is more than 50 NTU.
- (G) Toxic, radioactive, nonconventional, or deleterious material concentrations shall be less than those of public health significance, or which may cause acute or chronic toxic conditions to the aquatic biota, or which may adversely affect designated water uses.
  - (4) Class IV (Fair)—(i) Designated uses. The designated uses include but are not limited to, the following:
  - (A) Water supply (industrial).
  - (B) Stock watering.
  - (C) Fish (salmonid and other fish migration).
  - (D) Recreation (secondary contact recreation, sport fishing, boating and aesthetic enjoyment).
  - (E) Commerce and navigation.
  - (ii) Water quality criteria. (A) Dissolved oxygen.

	During periods of salmonid and other fish migration	During all other time periods
30 day mean	6.	5.5
7 day mean	<sup>1</sup> N	<sup>1</sup> NA
7 day mean minimum	5.	4.0
1 day minimum <sup>2</sup>	4.	3.0

<sup>&</sup>lt;sup>1</sup>NA (not applicable).

- (B) Total dissolved gas—concentrations shall not exceed 110 percent of the saturation value for gases at the existing atmospheric and hydrostatic pressures at any point of sample collection.
- (C) Temperature shall not exceed 22.0 degrees C due to human activities. Temperature increases shall not, at any time, exceed t = 20/(T + 2).
- (1) When natural conditions exceed 22.0 degrees C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3 degrees C.
- (2) For purposes hereof, "t" represents the permissive temperature change across the dilution zone; and "T" represents the highest existing temperature in this water classification outside of any dilution zone.
  - (D) pH shall be within the range of 6.5 to 9.0 with a human-caused variation of less than 0.5 units.
- (E) Turbidity shall not exceed 10 NTU over background turbidity when the background turbidity is 50 NTU or less, or have more than a 20 percent increase in turbidity when the background turbidity is more than 50 NTU.
- (F) Toxic, radioactive, nonconventional, or deleterious material concentrations shall be less than those of public health significance, or which may cause acute or chronic toxic conditions to the aquatic biota, or which may adversely affect designated water uses.

<sup>&</sup>lt;sup>2</sup>All minima should be considered as instantaneous concentrations to be achieved at all times.

- (5) Lake Class—(i) Designated uses. The designated uses include but are not limited to, the following:
- (A) Water supply (domestic, industrial, agricultural).
- (B) Stock watering.
- (C) Fish and shellfish: Salmonid migration, rearing, spawning, and harvesting; other fish migration, rearing, spawning, and harvesting; crayfish rearing, spawning, and harvesting.
  - (D) Wildlife habitat.
  - (E) Ceremonial and religious water use.
  - (F) Recreation (primary contact recreation, sport fishing, boating and aesthetic enjoyment).
  - (G) Commerce and navigation.
- (ii) Water quality criteria. (A) Bacteriological Criteria. The geometric mean of the enterococci bacteria densities in samples taken over a 30 day period shall not exceed 33/100 ml, nor shall any single sample exceed an enterococci density of 150 per 100 milliliters. These limits are calculated as the geometric mean of the collected samples approximately equally spaced over a thirty day period.
  - (B) Dissolved oxygen—no measurable decrease from natural conditions.
- (C) Total dissolved gas concentrations shall not exceed 110 percent of the saturation value for gases at the existing atmospheric and hydrostatic pressures at any point of sample collection.
  - (D) Temperature—no measurable change from natural conditions.
  - (E) pH—no measurable change from natural conditions.
  - (F) Turbidity shall not exceed 5 NTU over natural conditions.
- (G) Toxic, radioactive, nonconventional, or deleterious material concentrations shall be less than those which may affect public health, the natural aquatic environment, or the desirability of the water for any use.
- (6) Special Resource Water Class (SRW)—(i) General characteristics. These are fresh or saline waters which comprise a special and unique resource to the Reservation. Water quality of this class will be varied and unique as determined by the Regional Administrator in cooperation with the Tribes.
  - (ii) Designated uses. The designated uses include, but are not limited to, the following:
  - (A) Wildlife habitat.
  - (B) Natural foodchain maintenance.
  - (iii) Water quality criteria.
  - (A) Enterococci bacteria densities shall not exceed natural conditions.
  - (B) Dissolved oxygen—shall not show any measurable decrease from natural conditions.
  - (C) Total dissolved gas shall not vary from natural conditions.
  - (D) Temperature—shall not show any measurable change from natural conditions.
  - (E) pH shall not show any measurable change from natural conditions.
  - (F) Settleable solids shall not show any change from natural conditions.
  - (G) Turbidity shall not exceed 5 NTU over natural conditions.
  - (H) Toxic, radioactive, or deleterious material concentrations shall not exceed those found under natural conditions.
- (g) *General classifications*. General classifications applying to various surface waterbodies not specifically classified under §131.35(h) are as follows:

- (1) All surface waters that are tributaries to Class I waters are classified Class I, unless otherwise classified.
- (2) Except for those specifically classified otherwise, all lakes with existing average concentrations less than 2000 mg/L TDS and their feeder streams on the Colville Indian Reservation are classified as Lake Class and Class I, respectively.
- (3) All lakes on the Colville Indian Reservation with existing average concentrations of TDS equal to or exceeding 2000 mg/L and their feeder streams are classified as Lake Class and Class I respectively unless specifically classified otherwise.
  - (4) All reservoirs with a mean detention time of greater than 15 days are classified Lake Class.
- (5) All reservoirs with a mean detention time of 15 days or less are classified the same as the river section in which they are located.
  - (6) All reservoirs established on pre-existing lakes are classified as Lake Class.
  - (7) All wetlands are assigned to the Special Resource Water Class.
  - (8) All other waters not specifically assigned to a classification of the reservation are classified as Class II.
  - (h) Specific classifications. Specific classifications for surface waters of the Colville Indian Reservation are as follows:

trea		<u> </u>
	Alice Creek	Class I
	Anderson Creek	Class I
	Armstrong Creek	Class I
	Barnaby Creek	Class I
	Bear Creek	Class I
	Beaver Dam Creek	Class I
	Bridge Creek	Class I
	Brush Creek	Class I
	Buckhorn Creek	Class
	Cache Creek	Class I
	Canteen Creek	Class I
	Capoose Creek	Class
	Cobbs Creek	Class
	Columbia River from Chief Joseph Dam to Wells Dam	
	Columbia River from northern Reservation boundary to Grand Coulee Dam (Roosevelt Lake)	
	Columbia River from Grand Coulee Dam to Chief Joseph Dam	<b>†</b>
	Cook Creek	Class
	Cooper Creek	Class
	Cornstalk Creek	Class
	Cougar Creek	Class
	Coyote Creek	Class
	Deerhorn Creek	Class
	Dick Creek	Class
	Dry Creek	Class
	Empire Creek	Class
	Faye Creek	Class
	Forty Mile Creek	Class
	Gibson Creek	Class
	Gold Creek	Class
	Granite Creek	Class
	Grizzly Creek	Class
	Haley Creek	Class
	Hall Creek	Class
	Hall Creek, West Fork	Class
	Iron Creek	Class
	Jack Creek	Class
	Jerred Creek	Class
	Joe Moses Creek	Class
	John Tom Creek	Class
	Jones Creek	Class
	Kartar Creek	Class
	Kincaid Creek	Class
	King Creek	Class
	Klondyke Creek	Class
	Lime Creek	Class
	Little Jim Creek	Class
	Little Nespelem	Class
	Louie Creek	Class
	Lynx Creek	Class

Manila Creek	Class III
McAllister Creek	Class III
Meadow Creek	Class III
Mill Creek	Class II
Mission Creek	Class III
Nespelem River	Class II
Nez Perce Creek	Class III
Nine Mile Creek	Class II
Nineteen Mile Creek	Class III
No Name Creek	Class II
North Nanamkin Creek	Class III
North Star Creek	Class III
Okanogan River from Reservation north boundary to Columbia River	Class II
Olds Creek	Class I
Onak Creek Omak Creek	Class II
Onion Creek	Class II
Parmenter Creek	Class III
Peel Creek	Class III
Peter Dan Creek	Class III
Rock Creek	Class I
San Poil River	Class I
Sanpoil, River West Fork	Class II
Seventeen Mile Creek	Class III
Silver Creek	Class III
Sitdown Creek	Class III
Six Mile Creek	Class III
South Nanamkin Creek	Class III
Spring Creek	Class III
	Class III
Stapaloop Creek	
Stepstone Creek	Class III
Stranger Creek	Class II
Strawberry Creek	Class III
Swimptkin Creek	Class III
Three Forks Creek	Class I
Three Mile Creek	Class III
Thirteen Mile Creek	Class II
Thirty Mile Creek	Class II
Trail Creek	Class III
Twentyfive Mile Creek	Class III
Twentyone Mile Creek	Class III
Twentythree Mile Creek	Class III
Wannacot Creek	Class III
Wells Creek	Class I
Whitelaw Creek	Class III
Wilmont Creek	Class II
2) Lakes:	
Apex Lake	LC
Big Goose Lake	LC
Bourgeau Lake	LC
Buffalo Lake	LC
Cody Lake	LC
Crawfish Lakes	LC
Camille Lake	LC
Elbow Lake	LC
Fish Lake	LC
Gold Lake	LC
Great Western Lake	LC
Johnson Lake	LC
LaFleur Lake	LC
Little Goose Lake	LC
Little Owhi Lake	LC
McGinnis Lake	LC
Nicholas Lake	LC
Omak Lake	SRW
Owhi Lake	SRW
Penley Lake	SRW
Rebecca Lake	LC
Round Lake	LC
Simpson Lake	LC
Soap Lake	LC
Sugar Lake	LC
Summit Lake	LC
	SRW
Twin Lakes	

[54 FR 28625, July 6, 1989]

**★** Back to Top

# §131.36 Toxics criteria for those states not complying with Clean Water Act section 303(c)(2)(B).

- (a) *Scope*. This section is not a general promulgation of the section 304(a) criteria for priority toxic pollutants but is restricted to specific pollutants in specific States.
  - (b)(1) EPA's Section 304(a) criteria for Priority Toxic Pollutants.

A			B Freshwater		C Saltwater		D Human Health (10 <sup>-6</sup> risk for carcinogens) For consumption of:		
(#) C	ompound	CAS Number	Maximum Conc. <sup>d</sup>	Criterion Continuous Conc. <sup>d</sup> (µg/L) (B2)		Criterion Continuous Conc. <sup>d</sup> (μg/L) (C2)	Water & Organisms (μg/L) (D1)	Organisms Only (μg/L) (D2)	
1	Antimony	7440360					14 a		
2	Arsenic	7440382	360 m	190 m	69 m	36 m	0.018 abo	0.14 abc	
3	Beryllium	7440417					n	n	
4	Cadmium	7440439	3.7 e	1.0 e	42 m	9.3 m	n	n	
5a	Chromium (III)	16065831	550 e	180 e	:		n	n	
b	Chromium (VI)	18540299	15 m	10 m	1100 m	50 m	n	n	
6	Copper	7440508	17 e	11 e	2.4 m	2.4 m			
7	Lead	7439921	65 e	2.5 e	210 m	8.1 m	n	n	
8	Mercury	7439976	2.1 m	0.012 ip	1.8 m	0.025 ip	0.14	0.15	
9	Nickel	7440020							
10	Selenium	7782492	20 p			71 m		n	
11	Silver	7440224			1.9 m	, , , , , ,	<u>''</u>		
12	Thallium	7440280	1		1.0 111		1.7 a	6.3 a	
13	Zinc	7440666	1	100 e	90 m	81 m		0.5 a	
14	Cyanide	57125				01111	700 a	220000 aj	
15	Asbestos	1332214		3.2	<u>'</u>	<u>'</u>	7,000,000 fibers/L k	220000 aj	
16		1746016	1					0.000000014 c	
_	2,3,7,8-TCDD (Dioxin)	107028	1				0.00000013 c		
17	Acrolein						320		
18	Acrylonitrile	107131					0.059 ac		
19	Benzene	71432					1.2 ac		
20	Bromoform	75252					4.3 ac	360 ac	
21	Carbon Tetrachloride	56235					0.25 ac		
22	Chlorobenzene	108907					680 a	,	
23	Chlorodibromomethane	124481					0.41 ac	34 ac	
24	Chloroethane	75003	1						
25	2-Chloroethylvinyl Ether	110758							
26	Chloroform	67663					5.7 ac	470 ac	
27	Dichlorobromomethane	75274					0.27 ac	22 ac	
28	1,1-Dichloroethane	75343							
29	1,2-Dichloroethane	107062					0.38 ac	99 ac	
30	1,1-Dichloroethylene	75354					0.057 ac	3.2 ac	
31	1,2-Dichloropropane	78875							
32	1,3-Dichloropropylene	542756					10 a	1700 a	
33	Ethylbenzene	100414					3100 a	29000 a	
34	Methyl Bromide	74839					48 a		
35	Methyl Chloride	74873					n	n	
36	Methylene Chloride	75092					4.7 ac		
37	1,1,2,2-Tetrachloroethane	79345	1				0.17 ac		
38	Tetrachloroethylene	127184					0.8 c		
39	Toluene	108883					6800 a		
40	1,2-Trans-Dichloroethylene	156605			<del>                                     </del>		0000 a	200000 a	
41	1,1,1-Trichloroethane	71556					n	n	
42	1,1,2-Trichloroethane	71550					0.60 ac		
43		79005			-				
43	Trichloroethylene Vinyl Chloride	79016			-		2.7 c		
45	2-Chlorophenol	95578			-		20	525 0	
	•				-		00 -	700 -:	
46	2,4-Dichlorophenol	120832					93 a	790 aj	
47	2,4-Dimethylphenol	105679							
48	2-Methyl-4,6-Dinitrophenol	534521					13.4		
49	2,4-Dinitrophenol	51285					70 a	14000 a	
50	2-Nitrophenol	88755							
51	4-Nitrophenol	100027							
52	3-Methyl-4-Chlorophenol	59507	1		1				

129120	719		•	CFK — Code	Orrederar	rtegulations		
53	Pentachlorophenol	87865	20 f	13 f	13	7.9	0.28 ac	8.2 ac
54	Phenol	108952					21000 a	4600000 a
55	2,4,6-Trichlorophenol	88062					2.1 ac	6.5 ad
56	Acenaphthene	83329						
57	Acenaphthylene	208968						
58	Anthracene	120127					9600 a	110000 a
59	Benzidine	92875					0.00012 ac	0.00054 ad
60	Benzo(a)Anthracene	56553					0.0028 c	0.031
61	Benzo(a)Pyrene	50328					0.0028 c	0.031
62	Benzo(b)Fluoranthene	205992					0.0028 c	0.031
63	Benzo(ghi)Perylene	191242					0.0020 0	0.001 (
64	Benzo(k)Fluoranthene	207089					0.0028 c	0.031 (
							0.0026 C	0.0310
65	Bis(2-Chloroethoxy)Methane	111911					0.004	
66	Bis(2-Chloroethyl)Ether	111444					0.031 ac	1.4 ad
67	Bis(2-Chloroisopropyl)Ether	108601					1400 a	170000 a
68	Bis(2-Ethylhexyl)Phthalate	117817					1.8 ac	5.9 ad
69	4-Bromophenyl Phenyl Ether	101553						
70	Butylbenzyl Phthalate	85687						
71	2-Chloronaphthalene	91587						
72	4-Chlorophenyl Phenyl Ether	7005723						
73	Chrysene	218019					0.0028 c	0.031
74	Dibenzo(ah)Anthracene	53703					0.0028 c	0.031 (
75	1.2-Dichlorobenzene	95501					2700 a	17000 a
76	1.3-Dichlorobenzene	541731					400	2600
77	1,4-Dichlorobenzene	106467					400	2600
78	3,3'-Dichlorobenzidine	91941					0.04 ac	0.077 ad
79	Diethyl Phthalate	84662					23000 a	120000 a
80	Dimethyl Phthalate	131113					313000 a	2900000
		84742						
81	Di-n-Butyl Phthalate	121142					2700 a	12000 a
82	2,4-Dinitrotoluene						0.11 c	9.1 0
83	2,6-Dinitrotoluene	606202						
84	Di-n-Octyl Phthalate	117840						
85	1,2-Diphenylhydrazine	122667					0.040 ac	0.54 ad
86	Fluoranthene	206440					300 a	370 a
87	Fluorene	86737					1300 a	14000 a
88	Hexachlorobenzene	118741					0.00075 ac	0.00077 ad
89	Hexachlorobutadiene	87683					0.44 ac	50 ad
90	Hexachlorocyclopentadiene	77474					240 a	17000 a
91	Hexachloroethane	67721					1.9 ac	8.9 ad
92	Indeno(1,2,3-cd)Pyrene	193395					0.0028 c	0.031 (
93	Isophorone	78591					8.4 ac	600 ad
94	Naphthalene	91203					0.1.40	
95	Nitrobenzene	98953					17 a	1900 a
96	N-Nitrosodimethylamine	62759					0.00069 ac	8.1 ac
97	N-Nitrosodi-n-Propylamine	621647					0.00009 ac	0.1 at
98	N-Nitrosodiphenylamine	86306					5.0 ac	16 ad
	. ,						5.0 ac	10 at
99	Phenanthrene	85018					000	11000
100	Pyrene	129000					960 a	11000 a
101	1,2,4-Trichlorobenzene	120821						
102	Aldrin	309002	3 g		1.3 g		0.00013 ac	0.00014 ad
103	alpha-BHC	319846					0.0039 ac	0.013 ad
104	beta-BHC	319857					0.014 ac	0.046 ad
105	gamma-BHC	58899	2 g	0.08 g	0.16 g		0.019 c	0.063
106	delta-BHC	319868						
107	Chlordane	57749	2.4 g	0.0043 g	0.09 g	0.004 g	0.00057 ac	0.00059 ad
108	4,4'-DDT	50293	1.1 g	0.001 g	0.13 g	0.001 g	0.00059 ac	0.00059 ad
109	4,4'-DDE	72559	J			- U	0.00059 ac	0.00059 ad
110	4,4'-DDD	72548					0.00083 ac	0.00084 ad
111	Dieldrin	60571	2.5 g	0.0019 g	0.71 g	0.0019 g	0.00014 ac	0.00014 ad
112	alpha-Endosulfan	959988	0.22 g	0.056 g	0.034 g	0.0087 g	0.93 a	2.0 a
113	beta-Endosulfan	33213659	0.22 g	0.056 g	0.034 g	0.0087 g	0.93 a	2.0 8
114	Endosulfan Sulfate	1031078	0.22 g	0.000 g	0.034 g	0.0007 g	0.93 a	2.0 a
			0.40 ~	0.0000 =	0.027 ~	0.0000 =		
115	Endrin	72208	0.18 g	0.0023 g	0.037 g	0.0023 g	0.76 a	0.81 a
116	Endrin Aldehyde	7421934	0.50	0.0000	0.0=0	2 2225	0.76 a	0.81 a
117	Heptachlor	76448	0.52 g	0.0038 g	0.053 g	0.0036 g	0.00021 ac	0.00021 ad
118	Heptachlor Epoxide	1024573	0.52 g	0.0038 g	0.053 g	0.0036 g	0.00010 ac	0.00011 a
119	PCB-1242	53469219		0.014 g		0.03 g		
120	PCB-1254	11097691		0.014 g		0.03 g		
121	PCB-1221	11104282		0.014 g		0.03 g		
122	PCB-1232	11141165		0.014 g		0.03 g		
123	PCB-1248	12672296		0.014 g		0.03 g		
124	PCB-1260	11096825		0.014 g		0.03 g		
	PCB-1016	12674112		0.014 g		0.03 g		
<u></u>		12077112		5.5 i∓ g		0.00 g		

125b	Polychlorinated biphenyls (PCBs)						0.00017 q	0.00017 q
126	Toxaphene	8001352	0.73	0.0002	0.21	0.0002	0.00073 ac	0.00075 ac
	Total Number of Criteria (h) =		24	29	23	27	85	84

#### **FOOTNOTES**

- a. Criteria revised to reflect current agency  $q_1^*$  or RfD, as contained in the Integrated Risk Information System (IRIS). The fish tissue bioconcentration factor (BCF) from the 1980 criteria documents was retained in all cases.
  - b. The criteria refers to the inorganic form only.
- c. Criteria in the matrix based on carcinogenicity  $(10^{-6} \text{ risk})$ . For a risk level of  $10^{-5}$ , move the decimal point in the matrix value one place to the right.
- d. Criteria Maximum Concentration (CMC) = the highest concentration of a pollutant to which aquatic life can be exposed for a short period of time (1-hour average) without deleterious effects. Criteria Continuous Concentration (CCC) = the highest concentration of a pollutant to which aquatic life can be exposed for an extended period of time (4 days) without deleterious effects. µg/L = micrograms per liter.
- e. Freshwater aquatic life criteria for these metals are expressed as a function of total hardness (mg/L as CaCO<sub>3</sub>), the pollutant's water effect ratio (WER) as defined in §131.36(c) and multiplied by an appropriate dissolved conversion factor as defined in §131.36(b)(2). For comparative purposes, the values displayed in this matrix are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.0.
- f. Freshwater aquatic life criteria for pentachlorophenol are expressed as a function of pH, and are calculated as follows. Values displayed above in the matrix correspond to a pH of 7.8.

CMC = exp(1.005(pH)-4.830)

CCC = exp(1.005(pH)-5.290)

- g. Aquatic life criteria for these compounds were issued in 1980 utilizing the 1980 Guidelines for criteria development. The acute values shown are final acute values (FAV) which by the 1980 Guidelines are instantaneous values as contrasted with a CMC which is a one-hour average.
- h. These totals simply sum the criteria in each column. For aquatic life, there are 31 priority toxic pollutants with some type of freshwater or saltwater, acute or chronic criteria. For human health, there are 85 priority toxic pollutants with either "water + fish" or "fish only" criteria. Note that these totals count chromium as one pollutant even though EPA has developed criteria based on two valence states. In the matrix, EPA has assigned numbers 5a and 5b to the criteria for chromium to reflect the fact that the list of 126 priority toxic pollutants includes only a single listing for chromium.
- i. If the CCC for total mercury exceeds 0.012 µg/l more than once in a 3-year period in the ambient water, the edible portion of aquatic species of concern must be analyzed to determine whether the concentration of methyl mercury exceeds the FDA action level (1.0 mg/kg). If the FDA action level is exceeded, the State must notify the appropriate EPA Regional Administrator, initiate a revision of its mercury criterion in its water quality standards so as to protect designated uses, and take other appropriate action such as issuance of a fish consumption advisory for the affected area.
- j. No criteria for protection of human health from consumption of aquatic organisms (excluding water) was presented in the 1980 criteria document or in the 1986 Quality Criteria for Water. Nevertheless, sufficient information was presented in the 1980 document to allow a calculation of a criterion, even though the results of such a calculation were not shown in the document.
  - k. The criterion for asbestos is the MCL (56 FR 3526, January 30, 1991).
  - I. [Reserved: This letter not used as a footnote.]
  - m. Criteria for these metals are expressed as a function of the water effect ratio, WER, as defined in 40 CFR 131.36(c).

CMC = column B1 or C1 value × WFR

CCC = column B2 or C2 value × WER

- n. EPA is not promulgating human health criteria for this contaminant. However, permit authorities should address this contaminant in NPDES permit actions using the State's existing narrative criteria for toxics.
  - o. [Reserved: This letter not used as a footnote.]
  - p. Criterion expressed as total recoverable.
  - q. This criterion applies to total PCBs (e.g., the sum of all congener or isomer or homolog or Aroclor analyses).

#### **GENERAL NOTES**

- 1. This chart lists all of EPA's priority toxic pollutants whether or not criteria recommendations are available. Blank spaces indicate the absence of criteria recommendations. Because of variations in chemical nomenclature systems, this listing of toxic pollutants does not duplicate the listing in Appendix A of 40 CFR Part 423. EPA has added the Chemical Abstracts Service (CAS) registry numbers, which provide a unique identification for each chemical.
- 2. The following chemicals have organoleptic based criteria recommendations that are not included on this chart (for reasons which are discussed in the preamble): copper, zinc, chlorobenzene, 2-chlorophenol, 2,4-dichlorophenol, acenaphthene, 2,4-dimethylphenol, 3-methyl-4-chlorophenol, hexachlorocyclopentadiene, pentachlorophenol, phenol.
  - 3. For purposes of this rulemaking, freshwater criteria and saltwater criteria apply as specified in 40 CFR 131.36(c).
- NOTE TO PARAGRAPH (b)(1): On April 14, 1995, the Environmental Protection Agency issued a stay of certain criteria in paragraph (b) (1) of this section as follows: the criteria in columns B and C for arsenic, cadmium, chromium (VI), copper, lead, nickel, silver, and zinc; the

criteria in B1 and C1 for mercury; the criteria in column B for chromium (III); and the criteria in column C for selenium. The stay remains in effect until further notice.

(2) Factors for Calculating Hardness-Dependent, Freshwater Metals Criteria

CMC = WER exp {  $m_A[ln(hardness)] + b_A$ } × Acute Conversion Factor

CCC = WER exp {  $m_C[In(hardness)] + b_C$ } × Chronic Conversion Factor

Final CMC and CCC values should be rounded to two significant figures.

					Freshwater conversion factors		
Metal	m <sub>A</sub>	b <sub>A</sub>	m <sub>C</sub>	b <sub>C</sub>	Acute	Chronic	
Cadmium	1.128	-3.828	0.7852	-3.490	<sup>a</sup> 0.944	<sup>a</sup> 0.909	
Chromium (III)	0.8190	3.688	0.8190	1.561	0.316	0.860	
Copper	0.9422	-1.464	0.8545	-1.465	0.960	0.960	
Lead	1.273	-1.460	1.273	-4.705	<sup>a</sup> 0.791	<sup>a</sup> 0.791	
Nickel	0.8460	3.3612	0.8460	1.1645	0.998	0.997	
Silver	1.72	-6.52	<sup>b</sup> N/A	bN/A	0.85	<sup>b</sup> N/A	
Zinc	0.8473	0.8604	0.8473	0.7614	0.978	0.986	

Note to table: The term "exp" represents the base e exponential function.

Footnotes to table:

<sup>a</sup>The freshwater conversion factors (CF) for cadmium and lead are hardness-dependent and can be calculated for any hardness [see limitations in §131.36(c)(4)] using the following equations:

#### Cadmium

Acute: CF = 1.136672—[(In hardness)(0.041838)]

Chronic: CF = 1.101672—[(In hardness)(0.041838)]

Lead (Acute and Chronic): CF = 1.46203—[(In hardness)(0.145712)]

<sup>b</sup>No chronic criteria are available for silver.

- (c) Applicability. (1) The criteria in paragraph (b) of this section apply to the States' designated uses cited in paragraph (d) of this section and supersede any criteria adopted by the State, except when State regulations contain criteria which are more stringent for a particular use in which case the State's criteria will continue to apply.
- (2) The criteria established in this section are subject to the State's general rules of applicability in the same way and to the same extent as are the other numeric toxics criteria when applied to the same use classifications including mixing zones, and low flow values below which numeric standards can be exceeded in flowing fresh waters.
- (i) For all waters with mixing zone regulations or implementation procedures, the criteria apply at the appropriate locations within or at the boundary of the mixing zones; otherwise the criteria apply throughout the waterbody including at the end of any discharge pipe, canal or other discharge point.
- (ii) A State shall not use a low flow value below which numeric standards can be exceeded that is less stringent than the following for waters suitable for the establishment of low flow return frequencies (i.e., streams and rivers):

AQUATIC LIFE		
Acute criteria (CMC)	1 Q 10 or 1 B 3	
Chronic criteria (CCC)	7 Q 10 or 4 B 3	
Human Health		
Non-carcinogens	30 Q 5	
Carcinogens	Harmonic mean flow	

#### Where:

- CMC—criteria maximum concentration—the water quality criteria to protect against acute effects in aquatic life and is the highest instream concentration of a priority toxic pollutant consisting of a one-hour average not to be exceeded more than once every three years on the average;
- CCC—criteria continuous concentration—the water quality criteria to protect against chronic effects in aquatic life is the highest instream concentration of a priority toxic pollutant consisting of a 4-day average not to be exceeded more than once every three years on the average;
- 1 Q 10 is the lowest one day flow with an average recurrence frequency of once in 10 years determined hydrologically;
- 1 B 3 is biologically based and indicates an allowable exceedence of once every 3 years. It is determined by EPA's computerized method (DFLOW model):
- $7\ Q\ 10$  is the lowest average 7 consecutive day low flow with an average recurrence frequency of once in 10 years determined hydrologically;
- 4 B 3 is biologically based and indicates an allowable exceedence for 4 consecutive days once every 3 years. It is determined by EPA's computerized method (DFLOW model);
- 30 Q 5 is the lowest average 30 consecutive day low flow with an average recurrence frequency of once in 5 years determined hydrologically; and the harmonic mean flow is a long term mean flow value calculated by dividing the number of daily flows analyzed by the sum of the reciprocals of

those daily flows.

- (iii) If a State does not have such a low flow value for numeric standards compliance, then none shall apply and the criteria included in paragraph (d) of this section herein apply at all flows.
  - (3) The aquatic life criteria in the matrix in paragraph (b) of this section apply as follows:
- (i) For waters in which the salinity is equal to or less than 1 part per thousand 95% or more of the time, the applicable criteria are the freshwater criteria in Column B;
- (ii) For waters in which the salinity is equal to or greater than 10 parts per thousand 95% or more of the time, the applicable criteria are the saltwater criteria in Column C; and
- (iii) For waters in which the salinity is between 1 and 10 parts per thousand as defined in paragraphs (c)(3) (i) and (ii) of this section, the applicable criteria are the more stringent of the freshwater or saltwater criteria. However, the Regional Administrator may approve the use of the alternative freshwater or saltwater criteria if scientifically defensible information and data demonstrate that on a site-specific basis the biology of the waterbody is dominated by freshwater aquatic life and that freshwater criteria are more appropriate; or conversely, the biology of the waterbody is dominated by saltwater aquatic life and that saltwater criteria are more appropriate.
- (4) Application of metals criteria. (i) For purposes of calculating freshwater aquatic life criteria for metals from the equations in paragraph (b)(2) of this section, the minimum hardness allowed for use in those equations shall not be less than 25 mg/l, as calcium carbonate, even if the actual ambient hardness is less than 25 mg/l as calcium carbonate. The maximum hardness value for use in those equations shall not exceed 400 mg/l as calcium carbonate, even if the actual ambient hardness is greater than 400 mg/l as calcium carbonate. The same provisions apply for calculating the metals criteria for the comparisons provided for in paragraph (c)(3)(iii) of this section.
- (ii) The hardness values used shall be consistent with the design discharge conditions established in paragraph (c)(2) of this section for flows and mixing zones.
- (iii) Except where otherwise noted, the criteria for metals (compounds #2, #4-# 11, and #13, in paragraph (b) of this section) are expressed as dissolved metal. For purposes of calculating aquatic life criteria for metals from the equations in footnote m. in the criteria matrix in paragraph (b)(1) of this section and the equations in paragraphs (b)(2) of this section, the water-effect ratio is computed as a specific pollutant's acute or chronic toxicity values measured in water from the site covered by the standard, divided by the respective acute or chronic toxicity value in laboratory dilution water.
- (d) Criteria for Specific Jurisdictions—(1) Rhode Island, EPA Region 1. (i) All waters assigned to the following use classifications in the Water Quality Regulations for Water Pollution Control adopted under Chapters 46-12, 42-17.1, and 42-35 of the General Laws of Rhode Island are subject to the criteria in paragraph (d)(1)(ii) of this section, without exception:

6.21 Freshwater	6.22 Saltwater:
Class A	Class SA
Class B	Class SB
Class C	Class SC

(ii) The following criteria from the matrix in paragraph (b)(1) of this section apply to the use classifications identified in paragraph (d)(1)(i) of this section:

Use classification	Applicable criteria
Class A	These classifications are assigned the criteria in Column D1—#2, 68
Class B waters where water supply use is designated	
Class B waters where water supply use is not designated	Each of these classifications is assigned the criteria in: Column D2—#2, 68
Class C;	
Class SA;	
Class SB;	
Class SC	

- (iii) The human health criteria shall be applied at the  $10^{-5}$  risk level, consistent with the State policy. To determine appropriate value for carcinogens, see footnote c in the criteria matrix in paragraph (b)(1) of this section.
- (2) Vermont, EPA Region 1. (i) All waters assigned to the following use classifications in the Vermont Water Quality Standards adopted under the authority of the Vermont Water Pollution Control Act (10 V.S.A., Chapter 47) are subject to the criteria in paragraph (d)(2)(ii) of this section, without exception:

Class A

Class B

Class C

(ii) The following criteria from the matrix in paragraph (b)(1) of this section apply to the use classifications identified in paragraph (d)(2)(i) of this section:

Use classification	Applicable criteria
1. Classes A1, A2, B1, B2, B3	These classification are assigned the criterion in:
	Column B2—#105.

- (iii) The human health criteria shall be applied at the State-proposed 10<sup>-6</sup> risk level.
- (3)-(4) Reserved]
- (5) District of Columbia, EPA Region 3. (i) All waters assigned to the following use classifications in chapter 11 Title 21 DCMR, Water Quality Standards of the District of Columbia are subject to the criteria in paragraph (d)(5)(ii) of this section, without exception:

1101.2 Class C waters

(ii) The following criteria from the matrix in paragraph (b)(1) of this section apply to the use classification identified in paragraph (d)(5)(i) of this section:

Use classification	Applicable criteria
1. Class C	This classification is assigned the additional criteria in:
	Column B2; #10, 118, 126.

- (iii) The human health criteria shall be applied at the State-adopted 10<sup>-6</sup> risk level.
- (6) Florida, EPA Region 4. (i) All waters assigned to the following use classifications in Chapter 17-301 of the Florida Administrative Code (i.e., identified in Section 17-302.600) are subject to the criteria in paragraph (d)(6)(ii) of this section, without exception:

Class I

Class II

Class III

(ii) The following criteria from the matrix paragraph (b)(1) of this section apply to the use classifications identified in paragraph (d)(6)(i) of this section:

Use classification	Applicable criteria
Class I	This classification is assigned the criteria in:
	Column D1—#16
Class II Class III (marine)	This classification is assigned the criteria in:
	Column D2—#16
Class III (freshwater)	This classification is assigned the criteria in:
	Column D2—#16

(iii) The human health criteria shall be applied at the State-adopted 10<sup>-6</sup> risk level.

## (7)-(8) [Reserved]

(9) Kansas, EPA Region 7. (i) All waters assigned to the following use classification in the Kansas Department of Health and Environment regulations, K.A.R. 28-16-28b through K.A.R. 28-16-28f, are subject to the criteria in paragraph (d)(9)(ii) of this section, without exception.

Section (2)(A)—Special Aquatic Life Use Waters

Section (2)(B)—Expected Aquatic Life Use Waters

Section (2)(C)—Restricted Aquatic Life Use Waters

Section (3)—Domestic Water Supply.

Section (4)—Food Procurement Use.

(ii) The following criteria from the matrix in paragraph (b)(1) of this section apply to the use classifications identified in paragraph (d)(9)(i) of this section:

Use classification	Applicable criteria

1. Sections (2)(A), (2)(B), (2)(C), (4)	These classifications are each assigned criteria as follows:
	i. Column B1, #2.
	ii. Column D2, #12, 21, 29, 39, 46, 68, 79, 81, 86, 93, 104, 114, 118.
2. Section (3)	This classification is assigned all criteria in:
	Column D1, all except #1, 9, 12, 14, 15, 17, 22, 33, 36, 39, 44, 75, 77, 79, 90, 112, 113, and 115.

- (iii) The human health criteria shall be applied at the State-adopted 10<sup>-6</sup> risk level.
- (10) California, EPA Region 9. (i) All waters assigned any aquatic life or human health use classifications in the Water Quality Control Plans for the various Basins of the State ("Basin Plans"), as amended, adopted by the California State Water Resources Control Board ("SWRCB"), except for ocean waters covered by the Water Quality Control Plan for Ocean Waters of California ("Ocean Plan") adopted by the SWRCB with resolution Number 90-27 on March 22, 1990, are subject to the criteria in paragraph (d)(10)(ii) of this section, without exception. These criteria amend the portions of the existing State standards contained in the Basin Plans. More particularly these criteria amend water quality criteria contained in the Basin Plan Chapters specifying water quality objectives (the State equivalent of federal water quality criteria) for the toxic pollutants identified in paragraph (d)(10)(ii) of this section. Although the State has adopted several use designations for each of these waters, for purposes of this action, the specific standards to be applied in paragraph (d)(10)(ii) of this section are based on the presence in all waters of some aquatic life designation and the presence or absence of the MUN use designation (Municipal and domestic supply). (See Basin Plans for more detailed use definitions.)
- (ii) The following criteria from the matrix in paragraph (b)(1) of this section apply to the water and use classifications defined in paragraph (d)(10)(i) of this section and identified below:

Water and use classification	Applicable criteria
Waters of the Sacramento-San Joaquin Delta within Regional Water Board 5	Column C1—polluntant 14. Column C2—pollutant 14.
Waters of the State defined as bays or estuaries except the Sacramento-San Joaquin Delta and San Francisco Bay	These waters are assigned the criteria in:
	Column B1—pollutants 5a and 14
	Column B2—pollutants 5a and 14
	Column C1—pollutant 14
	Column C2—pollutant 14
	Column D2—pollutants 1, 12, 17, 18, 21, 22, 29, 30, 32, 33, 37, 38, 42-44, 46, 48, 49, 54, 59, 66, 67, 68, 78-82, 85, 89, 90, 91, 93, 95, 96, 98
Waters of the Sacramento—San Joaquin Delta and waters of the State defined as inland (i.e., all surface waters of the State not bays or estuaries or ocean) that include a MUN use designation	
Naters of the State defined as inland without an MUN use designation	These waters are assigned the criteria in:
	Column B1—pollutants 5a and 14
	Column B2—pollutants 5a and 14
	Column D2—pollutants 1, 12, 17, 18, 21, 22, 29, 30, 32, 33, 37, 38, 42-44, 46, 48, 49, 54, 59, 66, 67, 68, 78-82, 85, 89, 90, 91, 93, 95, 96, 98
Waters of the San Joaquin River from the mouth of the Merced River to Vernalis	In addition to the criteria assigned to these waters elsewhere in this rule, these waters are assigned the criteria in:
	Column B2—pollutant 10
Waters of Salt Slough, Mud Slough (north) and the San Joaquin River, Sack Dam to the mouth of the Merced River	In addition to the criteria assigned to these waters elsewhere in this rule, these waters are assigned the criteria in:
	Column B1—pollutant 10

COTT — Code of Federal Regulations	
	Column B2—pollutant 10
Waters of San Francisco Bay upstream to and including Suisun Bay and the Sacramento-San Joaquin Delta	These waters are assigned the criteria in: Column B1—pollutants 5a, 10* and 14. Column B2—pollutants 5a, 10* and 14. Column D2—pollutants 1, 12, 17, 18, 21, 22, 29, 30, 32, 33, 37, 38, 42-44, 46, 48, 49, 54, 59, 66, 67, 68, 78-82, 85, 89, 90, 91, 93, 95, 96, 98.
All inland waters of the United States or enclosed bays and estuaries that are waters of the United States that include an designation and that the State has either excluded or partially excluded from coverage under its Water Quality Control Pla Surface Waters of California, Tables 1 and 2, or its Water Quality Control Plan for Enclosed Bays and Estuaries of Californiad 2, or has deferred applicability of those tables. (Category (a), (b), and (c) waters described on page 6 of Water Quality for Inland Surface Waters of California or page 6 of its Water Quality Control Plan for Enclosed Bays and Estuaries of Californiad Surface Waters of Californiad Surface Wa	the criteria for pollutants for which the State does not y Control Plan apply Table 1 or 2
All inland waters of the United States that do not include an MUN use designation and that the State has either excluded excluded from coverage under its Water Quality Control Plan for Inland Surface Waters of California, Tables 1 and 2, or h applicability of these tables. (Category (a), (b), and (c) waters described on page 6 of Water Quality Control Plan for Inlan Waters of California.)	as deferred the criteria for pollutants for
All enclosed bays and estuaries that are waters of the United States that do not include an MUN designation and that the either excluded or partially excluded from coverage under its Water Quality Control Plan for Inland Surface Waters of California, Tables 1 and 2, or has deferred a those tables. (Category (a), (b), and (c) waters described on page 6 of Water Quality Control Plan for Inland Surface Water California or page 6 of its Water Quality Control Plan for Enclosed Bays and Estuaries of California.)	fornia, Tables the criteria for pollutants for applicability of which the State does not

\*The fresh water selenium criteria are included for the San Francisco Bay estuary because high levels of bioaccumulation of selenium in the estuary indicate that the salt water criteria are underprotective for San Francisco Bay.

- (iii) The human health criteria shall be applied at the State-adopted 10<sup>-6</sup> risk level.
- (11) Nevada, EPA Region 9. (i) All waters assigned the use classifications in Chapter 445 of the Nevada Administrative Code (NAC), Nevada Water Pollution Control Regulations, which are referred to in paragraph (d)(11)(ii) of this section, are subject to the criteria in paragraph (d)(11)(ii) of this section, without exception. These criteria amend the existing State standards contained in the Nevada Water Pollution Control Regulations. More particularly, these criteria amend or supplement the table of numeric standards in NAC 445.1339 for the toxic pollutants identified in paragraph (d)(11)(ii) of this section.
- (ii) The following criteria from matrix in paragraph (b)(1) of this section apply to the waters defined in paragraph (d)(11)(i) of this section and identified below:

Water and use classification	Applicable criteria
	These waters are assigned the criteria in: Column B1—pollutant #118 Column B2—pollutant #118 Column D1—pollutants #15, 16, 18, 19, 20, 21, 23, 26, 27, 29, 30, 34, 37, 38, 42, 43, 55, 58-62, 64, 66, 73, 74, 78, 82, 85, 87-89, 91, 92, 96, 98, 100, 103, 104, 105, 114, 116, 117, 118
	These waters are assigned the criteria in: Column B1—pollutant #118 Column B2—pollutant #118 Column D2—all pollutants except #2.

- (iii) The human health criteria shall be applied at the  $10^{-5}$  risk level, consistent with State policy. To determine appropriate value for carcinogens, see footnote c in the criteria matrix in paragraph (b)(1) of this section.
- (12) Alaska, EPA Region 10. (i) All waters assigned to the following use classifications in the Alaska Administrative Code (AAC), Chapter 18 (i.e., identified in 18 AAC 70.020) are subject to the criteria in paragraph (d)(12)(ii) of this section, without exception:

70.020.(1) (A) Fresh Water

70.020.(1) (A) Water Supply

- (i) Drinking, culinary, and food processing,
- (iii) Aquaculture;

70.020.(1) (B) Water Recreation

- (i) Contact recreation,
- (ii) Secondary recreation;
- 70.020.(1) (C) Growth and propagation of fish, shellfish, other aquatic life, and wildlife
- 70.020.(2) (A) Marine Water
- 70.020.(2) (A) Water Supply
  - (i) Aquaculture,

70.020.(2) (B) Water Recreation

- (i) contact recreation,
- (ii) secondary recreation;
- 70.020.(2) (C) Growth and propagation of fish, shellfish, other aquatic life, and wildlife;
- 70.020.(2) (D) Harvesting for consumption of raw mollusks or other raw aquatic life.
- (ii) The following criteria from the matrix in paragraph (b)(1) of this section apply to the use classifications identified in paragraph (d)(12)(i) of this section:

Use classification	Applicable criteria
	Column D1—#s 16, 18-21, 23, 26, 27, 29, 30, 32, 37, 38, 42-44, 53, 55, 59-62, 64, 66, 68, 73, 74, 78, 82, 85, 88, 89, 91-93, 96, 98, 102-105, 107-111, 117-126.
	Column D2—#s 14, 16, 18-21, 22, 23, 26, 27, 29, 30, 32, 37, 38, 42-44, 46, 53, 54, 55, 59-62, 64, 66, 68, 73, 74, 78, 82, 85, 88-93, 95, 96, 98, 102-105, 107-111, 115-126.
	Column D2—#s 14, 16, 18-21, 22, 23, 26, 27, 29, 30, 32, 37, 38, 42-44, 46, 53, 54, 55, 59-62, 64, 66, 68, 73, 74, 78, 82, 85, 88-93, 95, 96, 98, 102-105, 107-111, 115-126.
	Column D2—#s 14, 16, 18-21, 22, 23, 26, 27, 29, 30, 32, 37, 38, 42-44, 46, 53, 54, 55, 59-62, 64, 66, 68, 73, 74, 78, 82, 85, 88-93, 95, 96, 98, 102-105, 107-111, 115-126.

- (iii) The human health criteria shall be applied at the State-proposed risk level of  $10^{-5}$ . To determine appropriate value for carcinogens, see footnote c in the criteria matrix in paragraph (b)(1) of this section.
  - (13) [Reserved]

[57 FR 60910, Dec. 22, 1992]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §131.36, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at www.govinfo.gov.

#### Back to Top

#### §131.37 California.

- (a) Additional criteria. The following criteria are applicable to waters specified in the Water Quality Control Plan for Salinity for the San Francisco Bay/Sacramento-San Joaquin Delta Estuary, adopted by the California State Water Resources Control Board in State Board Resolution No. 91-34 on May 1, 1991:
- (1) Estuarine habitat criteria. (i) General rule. (A) Salinity (measured at the surface) shall not exceed 2640 micromhos/centimeter specific conductance at 25 °C (measured as a 14-day moving average) at the Confluence of the Sacramento and San Joaquin Rivers throughout the period each year from February 1 through June 30, and shall not exceed 2640 micromhos/centimeter specific conductance at 25 °C (measured as a 14-day moving average) at the specific locations noted in Table 1 near Roe Island and Chipps Island for the number of days each month in the February 1 to June 30 period computed by reference to the following formula:

Number of days required in Month X = Total number of days in Month  $\times * (1 - 1/(1 + e^{K}))$ 

where

K = A + (B\*natural logarithm of the previous month's 8-River Index);

A and B are determined by reference to Table 1 for the Roe Island and Chipps Island locations;

x is the calendar month in the February 1 to June 30 period;

and e is the base of the natural (or Napierian) logarithm.

Where the number of days computed in this equation in paragraph (a)(1)(i)(A) of this section shall be rounded to the nearest whole number of days. When the previous month's 8-River Index is less than 500,000 acre-feet, the number of days required for the current month shall be zero.

TABLE 1. CONSTANTS APPLICABLE TO EACH OF THE MONTHLY EQUATIONS TO DETERMINE MONTHLY REQUIREMENTS DESCRIBED.

	Chipps Island F		Roe Island (if triggered)		
Month X	A	В	A	В	
Feb	_1	_1	-14.36	+ 2.068	
Mar	-105.16	+ 15.943	-20.79	+ 2.741	
Apr	-47.17	+ 6.441	-28.73	+ 3.783	
May	-94.93	+ 13.662	-54.22	+ 6.571	
June	-81.00	+ 9.961	-92.584	+ 10.699	

<sup>1</sup>Coefficients for A and B are not provided at Chipps Island for February, because the 2640 micromhos/cm specific conductance criteria must be maintained at Chipps Island throughout February under all historical 8-River Index values for January.

- (B) The Roe Island criteria apply at the salinity measuring station maintained by the U.S. Bureau of Reclamation at Port Chicago (km 64). The Chipps Island criteria apply at the Mallard Slough Monitoring Site, Station D-10 (RKI RSAC-075) maintained by the California Department of Water Resources. The Confluence criteria apply at the Collinsville Continuous Monitoring Station C-2 (RKI RSAC-081) maintained by the California Department of Water Resources.
- (ii) *Exception*. The criteria at Roe Island shall be required for any given month only if the 14-day moving average salinity at Roe Island falls below 2640 micromhos/centimeter specific conductance on any of the last 14 days of the previous month.
- (2) Fish migration criteria—(i) General rule—(A) Sacramento River. Measured Fish Migration criteria values for the Sacramento River shall be at least the following:

At temperatures less than below 61 °F: SRFMC = 1.35

At temperatures between 61 °F and 72 °F: SRFMC = 6.96-.092 \* Fahrenheit temperature

At temperatures greater than 72 °F: SRFMC = 0.34

where SRFMC is the Sacramento River Fish Migration criteria value. Temperature shall be the water temperature at release of tagged salmon smolts into the Sacramento River at Miller Park.

(B) San Joaquin River. Measured Fish Migration criteria values on the San Joaquin River shall be at least the following:

For years in which the SJVIndex is >2.5: SJFMC = (-0.012) + 0.184\*SJVIndex

In other years: SJFMC = 0.205 + 0.0975\*SJVIndex

where SJFMC is the San Joaquin River Fish Migration criteria value, and SJVIndex is the San Joaquin Valley Index in million acre feet (MAF)

(ii) Computing fish migration criteria values for Sacramento River. In order to assess fish migration criteria values for the Sacramento River, tagged fall-run salmon smolts will be released into the Sacramento River at Miller Park and captured at Chipps Island, or alternatively released at Miller Park and Port Chicago and recovered from the ocean fishery, using the methodology described in this paragraph (a)(2)(ii). An alternative methodology for computing fish migration criteria values can be used so long as the revised methodology is calibrated with the methodology described in this paragraph (a)(2)(ii) so as to maintain the validity of the relative index values. Sufficient releases shall be made each year to provide a statistically reliable verification of compliance with the criteria. These criteria will be considered attained when the sum of the differences between the measured experimental value and the stated criteria value (i.e., measured value minus stated value) for each experimental release conducted over a three year period (the current year and the previous two years) shall be greater than or equal to zero. Fish for release are to be tagged at the hatchery with coded-wire tags, and fin clipped. Approximately 50,000 to 100,000 fish of smolt size (size greater than 75 mm) are released for each survival index estimate, depending on expected mortality. As a control for the ocean recovery survival index, one or two groups per season are released at Benecia or Pt. Chicago. From each upstream release of tagged fish, fish are to be caught over a period of one to two weeks at Chipps Island. Daylight sampling at Chipps Island with a 9.1 by 7.9 m, 3.2 mm cod end, midwater trawl is begun 2 to 3 days after release. When the first fish is

caught, full-time trawling 7 days a week should begin. Each day's trawling consists of ten 20 minute tows generally made against the current, and distributed equally across the channel.

(A) The Chipps Island smolt survival index is calculated as:

 $SSI = R \div MT(0.007692)$ 

where

R = number of recaptures of tagged fish

M = number of marked (tagged) fish released

T = proportion of time sampled vs total time tagged fish were passing the site (i.e. time between first and last tagged fish recovery)

Where the value 0.007692 is the proportion of the channel width fished by the trawl, and is calculated as trawl width/channel width.

(B) Recoveries of tagged fish from the ocean salmon fishery two to four years after release are also used to calculate a survival index for each release. Smolt survival indices from ocean recoveries are calculated as:

OSI =  $R_1/M_1 \div R_2/M_2$ 

where

R<sub>1</sub> = number of tagged adults recovered from the upstream release

M<sub>1</sub> = number released upstream

R<sub>2</sub> = number of tagged adults recovered from the Port Chicago release

M<sub>2</sub> = number released at Port Chicago

(1) The number of tagged adults recovered from the ocean fishery is provided by the Pacific States Marine Fisheries Commission, which maintains a port sampling program.

### (2) [Reserved]

- (iii) Computing fish migration criteria values for San Joaquin River. In order to assess annual fish migration criteria values for the San Joaquin River, tagged salmon smolts will be released into the San Joaquin River at Mossdale and captured at Chipps Island, or alternatively released at Mossdale and Port Chicago and recovered from the ocean fishery, using the methodology described in paragraph (a)(2)(iii). An alternative methodology for computing fish migration criteria values can be used so long as the revised methodology is calibrated with the methodology described below so as to maintain the validity of the relative index values. Sufficient releases shall be made each year to provide a statistically reliable estimate of the SJFMC for the year. These criteria will be considered attained when the sum of the differences between the measured experimental value and the stated criteria value (i.e., measured value minus stated value) for each experimental release conducted over a three year period (the current year and the previous two years) shall be greater than or equal to zero.
- (A) Fish for release are to be tagged at the hatchery with coded-wire tags, and fin clipped. Approximately 50,000 to 100,000 fish of smolt size (size greater than 75 mm) are released for each survival index estimate, depending on expected mortality. As a control for the ocean recovery survival index, one or two groups per season are released at Benicia or Pt. Chicago. From each upstream release of tagged fish, fish are to be caught over a period of one to two weeks at Chipps Island. Daylight sampling at Chipps Island with a 9.1 by 7.9 m, 3.2 mm cod end, midwater trawl is begun 2 to 3 days after release. When the first fish is caught, full-time trawling 7 days a week should begin. Each day's trawling consists of ten 20 minute tows generally made against the current, and distributed equally across the channel.
  - (B) The Chipps Island smolt survival index is calculated as:

 $SSI = R \div MT(0.007692)$ 

where

R = number of recaptures of tagged fish

M = number of marked (tagged) fish released

T = proportion of time sampled vs total time tagged fish were passing the site (i.e. time between first and last tagged fish recovery)

Where the value 0.007692 is the proportion of the channel width fished by the trawl, and is calculated as trawl width/channel width.

(C) Recoveries of tagged fish from the ocean salmon fishery two to four years after release are also used to calculate a survival index for each release. Smolt survival indices from ocean recoveries are calculated as:

$$OSI = R_1/M_1 \div R_2/M_2$$

where

R<sub>1</sub> = number of tagged adults recovered from the upstream release

M<sub>1</sub> = number released upstream

R<sub>2</sub> = number of tagged adults recovered from the Port Chicago release

M<sub>2</sub> = number released at Port Chicago

- (1) The number of tagged adults recovered from the ocean fishery is provided by the Pacific States Marine Fisheries Commission, which maintains a port sampling program.
  - (2) [Reserved]
- (3) Suisun marsh criteria. (i) Water quality conditions sufficient to support a natural gradient in species composition and wildlife habitat characteristic of a brackish marsh throughout all elevations of the tidal marshes bordering Suisun Bay shall be maintained. Water quality conditions shall be maintained so that none of the following occurs: Loss of diversity; conversion of brackish marsh to salt marsh; for animals, decreased population abundance of those species vulnerable to increased mortality and loss of habitat from increased water salinity; or for plants, significant reduction in stature or percent cover from increased water or soil salinity or other water quality parameters.
  - (ii) [Reserved]
- (b) Revised criteria. The following criteria are applicable to state waters specified in Table 1-1, at Section (C)(3) ("Striped Bass—Salinity: 3. Prisoners Point—Spawning) of the Water Quality Control Plan for Salinity for the San Francisco Bay—Sacramento/San Joaquin Delta Estuary, adopted by the California State Water Resources Control Board in State Board Resolution No. 91-34 on May 1, 1991:

	Sampling site Nos (IA/RKI)	Parameter		Index	San Joaquin Valley Index		Values
San Joaquin River at Jersey Point, San Andreas Landing,	D15/RSAN018,	Specific	14-day running average of mean	Not	>2.5	April	0.44
Prisoners Point, Buckley Cove, Rough and Ready Island, Brandt	C4/RSAN032,	Conductance	daily for the period not more than	Applicable	MAF	1 to	micro-
Bridge, Mossdale, and Vernalis	D29/RSAN038,	@ 25 °C	value shown, in mmhos			May	mhos.
	P8/RSAN056,					31	
	-/RSAN062,						
	C6/RSAN073,						
	C7/RSAN087,						
	C10/RSAN112						
San Joaquin River at Jersey Point, San Andreas Landing and	D15/RSAN018,	Specific	14-day running average of mean	Not	≤2.5	April	0.44
	C4/RSAN032,			Applicable			micro-
	D29/RSAN038		value shown, in mmhos			May	mhos.
						31	

- (c) Definitions. Terms used in paragraphs (a) and (b) of this section, shall be defined as follows:
- (1) Water year. A water year is the twelve calendar months beginning October 1.
- (2) 8-River Index. The flow determinations are made and are published by the California Department of Water Resources in Bulletin 120. The 8-River Index shall be computed as the sum of flows at the following stations:
  - (i) Sacramento River at Band Bridge, near Red Bluff;
  - (ii) Feather River, total inflow to Oroville Reservoir;
  - (iii) Yuba River at Smartville;
  - (iv) American River, total inflow to Folsom Reservoir;
  - (v) Stanislaus River, total inflow to New Melones Reservoir;
  - (vi) Tuolumne River, total inflow to Don Pedro Reservoir;
  - (vii) Merced River, total inflow to Exchequer Reservoir; and

- (viii) San Joaquin River, total inflow to Millerton Lake.
- (3) San Joaquin Valley Index. (i) The San Joaquin Valley Index is computed according to the following formula:

 $I_{S,I} = 0.6X + 0.2Y$  and 0.2Z

where

I<sub>S,J</sub> = San Joaquin Valley Index

- X = Current year's April-July San Joaquin Valley unimpaired runoff
- Y = Current year's October-March San Joaquin Valley unimpaired runoff
- Z = Previous year's index in MAF, not to exceed 0.9 MAF
- (ii) Measuring San Joaquin Valley unimpaired runoff. San Joaquin Valley unimpaired runoff for the current water year is a forecast of the sum of the following locations: Stanislaus River, total flow to New Melones Reservoir; Tuolumne River, total inflow to Don Pedro Reservoir; Merced River, total flow to Exchequer Reservoir; San Joaquin River, total inflow to Millerton Lake.
- (4) Salinity. Salinity is the total concentration of dissolved ions in water. It shall be measured by specific conductance in accordance with the procedures set forth in 40 CFR 136.3, Table 1B, Parameter 64.

[60 FR 4707, Jan. 24, 1995]

**≜** Back to Top

### §131.38 Establishment of numeric criteria for priority toxic pollutants for the State of California.

- (a) Scope. This section promulgates criteria for priority toxic pollutants in the State of California for inland surface waters and enclosed bays and estuaries. This section also contains a compliance schedule provision.
  - (b)(1) Criteria for Priority Toxic Pollutants in the State of California as described in the following table:

A		I=		С		D Human health (10 <sup>-6</sup> risk for carcinogens) for consumption of:	
Number compound	CAS No.	Criterion maximum conc. <sup>d</sup> (µg/L) B1	conc.d	conc.d	Criterion continuous conc. <sup>d</sup> (µg/L) C2	organisms (μg/L)	Organisms only (μg/L) D2
1. Antimony	7440360					<sup>a s</sup> 14	<sup>a t</sup> 4300
2. Arsenic <sup>b</sup>	7440382	<sup>i m w</sup> 340	<sup>i m w</sup> 150	<sup>i m</sup> 69	<sup>i m</sup> 36		
3. Beryllium	7440417					( <sup>n</sup> )	( <sup>n</sup> )
4. Cadmium <sup>b</sup>	7440439	eimwx4.3	eimw <sub>2.2</sub>	<sup>i m</sup> 42	<sup>i m</sup> 9.3	( <sup>n</sup> )	( <sup>n</sup> )
5a. Chromium (III)	16065831	e i m o550	<sup>e i m o</sup> 180			( <sup>n</sup> )	( <sup>n</sup> )
5b. Chromium (VI) <sup>b</sup>	18540299	<sup>i m w</sup> 16	<sup>i m w</sup> 11	<sup>i m</sup> 1100	<sup>i m</sup> 50	( <sup>n</sup> )	( <sup>n</sup> )
6. Copper <sup>b</sup>	7440508	eimwx13	e i m w 9.0	<sup>i m</sup> 4.8	<sup>i m</sup> 3.1	1300	
7. Lead <sup>b</sup>	7439921	e i m z65	eim z <sub>2.5</sub>	<sup>i m</sup> 210	<sup>i m</sup> 8.1	( <sup>n</sup> )	( <sup>n</sup> )
8. Mercury <sup>b</sup>	7439976	[Reserved]	[Reserved]	[Reserved]	[Reserved]	<sup>a</sup> 0.050	<sup>a</sup> 0.051
9. Nickel <sup>b</sup>	7440020	e i m w470	eimw <sub>52</sub>	<sup>i m</sup> 74	<sup>i m</sup> 8.2	<sup>a</sup> 610	<sup>a</sup> 4600
10. Selenium <sup>b</sup>	7782492	<sup>p</sup> [Reserved]	<sup>q</sup> 5.0	<sup>i m</sup> 290	<sup>i m</sup> 71	( <sup>n</sup> )	( <sup>n</sup> )
11. Silver <sup>b</sup>	7440224	e i m3.4		<sup>i m</sup> 1.9			
12. Thallium	7440280					<sup>a s</sup> 1.7	<sup>a t</sup> 6.3
13. Zinc <sup>b</sup>	7440666	eimwx120	e i m w120	<sup>i m</sup> 90	<sup>i m</sup> 81		
14. Cyanide <sup>b</sup>	57125	°22	°5.2	rthnsp;1	r <sub>1</sub>	<sup>a</sup> 700	<sup>a j</sup> 220,000
15. Asbestos	1332214					k s7,000,000 fibers/l	
16. 2,3,7,8-TCDD (Dioxin)	1746016					c>0.000000013	c>0.00000014
17. Acrolein	107028					s>320	<sup>t</sup> >780
18. Acrylonitrile	107131					<sup>a c s</sup> 0.059	<sup>a c t</sup> 0.66
19. Benzene	71432					<sup>a c</sup> 1.2	<sup>a c</sup> 71
20. Bromoform	75252					<sup>a c</sup> 4.3	<sup>a c</sup> 360
21. Carbon Tetrachloride	56235					<sup>a c s</sup> 0.25	<sup>a c t</sup> 4.4
22. Chlorobenzene	108907					<sup>a s</sup> 680	<sup>a j t</sup> 21,000
23. Chlorodibromomethane	124481					<sup>a c y</sup> 0.41	<sup>a c</sup> 34
24. Chloroethane	75003						

11/29/2019		ecrk	— Code of Fe	derai Reguia	ations		
25. 2-Chloroethylvinyl Ether	110758						
26. Chloroform  27. Dichlorobromomethane	67663 75274					[Reserved]	[Reserved
28. 1,1-Dichloroethane	75343					a c y 0.56	a ~46
29. 1,2-Dichloroethane	107062					a c s <sub>0.38</sub>	a c tgg
30. 1,1-Dichloroethylene	75354					<sup>a c s</sup> 0.057	a c t 3.2
31. 1,2-Dichloropropane	78875					a <sub>0.52</sub>	a39
32. 1,3-Dichloropropylene	542756					a s <sub>10</sub>	<sup>a t</sup> 1,700
33. Ethylbenzene	100414					<sup>a s</sup> 3,100	<sup>a t</sup> 29,000
34. Methyl Bromide	74839					a <sub>48</sub>	<sup>a</sup> 4,000
35. Methyl Chloride	74873					(n)	
36. Methylene Chloride	75092					a c <sub>4.7</sub>	<sup>a c</sup> 1,600
37. 1,1,2,2-Tetrachloroethane	79345					a c s <sub>0.17</sub>	a c t <sub>11</sub>
38. Tetrachloroethylene	127184					c s <sub>0.8</sub>	<sup>c t</sup> 8.85
39. Toluene	108883					<sup>a</sup> 6,800	<sup>a</sup> 200,000
40. 1,2-Trans-Dichloroethylene	156605					<sup>a</sup> 700	a140,000
41. 1,1,1-Trichloroethane	71556					( <sup>n</sup> )	, (n
42. 1,1,2-Trichloroethane	79005					a c s <sub>0.60</sub>	a c t <sub>42</sub>
43. Trichloroethylene	79016					<sup>c s</sup> 2.7	c t81
44. Vinyl Chloride	75014					c s <sub>2</sub>	c t525
45. 2-Chlorophenol	95578					<sup>a</sup> 120	<sup>a</sup> 400
46. 2,4-Dichlorophenol	120832					<sup>a s</sup> 93	<sup>a t</sup> 790
47. 2,4-Dimethylphenol	105679					<sup>a</sup> 540	<sup>a</sup> 2,300
48. 2-Methyl-4,6-Dinitrophenol	534521					s>13.4	t>765
49. 2,4-Dinitrophenol	51285					<sup>a s</sup> 70	<sup>a t</sup> 14,000
50. 2-Nitrophenol	88755						
51. 4-Nitrophenol	100027						
52. 3-Methyl-4-Chlorophenol	59507	fwas	f.w.a=	12	7.0	200.00	2010.0
53. Pentachlorophenol 54. Phenol	87865 108952	<sup>f w</sup> 19	<sup>f w</sup> 15	13	7.9	<sup>a c</sup> 0.28	a c j 8.2
55. 2,4,6-Trichlorophenol	88062					<sup>a</sup> 21,000	<sup>a j t</sup> 4,600,000
56. Acenaphthene	83329					<sup>a c</sup> 2.1	<sup>a c</sup> 6.5
57. Acenaphthylene	208968					<sup>a</sup> 1,200	<sup>a</sup> 2,700
58. Anthracene	120127					<sup>a</sup> 9,600	<sup>a</sup> 110,000
59. Benzidine	92875					<sup>a c s</sup> 0.00012	a c t <sub>0</sub> .00054
60. Benzo(a)Anthracene	56553					<sup>a c</sup> 0.0044	<sup>a c</sup> 0.049
61. Benzo(a)Pyrene	50328					<sup>a c</sup> 0.0044	a c <sub>0.049</sub>
62. Benzo(b)Fluoranthene	205992					<sup>a c</sup> 0.0044	a c <sub>0.049</sub>
63. Benzo(ghi)Perylene	191242					0.0011	0.010
64. Benzo(k)Fluoranthene	207089					<sup>a c</sup> 0.0044	<sup>a c</sup> 0.049
65. Bis(2-Chloroethoxy)Methane	111911						
66. Bis(2-Chloroethyl)Ether	111444					<sup>a c s</sup> 0.031	a c t <sub>1.4</sub>
67. Bis(2-Chloroisopropyl)Ether	108601					<sup>a</sup> 1,400	<sup>a t</sup> 170,000
68. Bis(2-Ethylhexyl)Phthalate	117817					<sup>a c s</sup> 1.8	a c t <sub>5.9</sub>
69. 4-Bromophenyl Phenyl Ether	101553						
70. Butylbenzyl Phthalate	85687					<sup>a</sup> 3,000	<sup>a</sup> 5,200
71. 2-Chloronaphthalene	91587					<sup>a</sup> 1,700	<sup>a</sup> 4,300
72. 4-Chlorophenyl Phenyl Ether	7005723					3.00.00.44	2.00.040
73. Chrysene	218019 53703					<sup>a c</sup> 0.0044	a c <sub>0.049</sub>
74. Dibenzo(a,h)Anthracene 75. 1,2 Dichlorobenzene	95501					<sup>a c</sup> 0.0044	<sup>a c</sup> 0.049
<u> </u>	541731					<sup>a</sup> 2,700	<sup>a</sup> 17,000
76. 1,3 Dichlorobenzene 77. 1,4 Dichlorobenzene	106467					400 400	2,600 2,600
78. 3,3'-Dichlorobenzidine	91941					<sup>a c s</sup> 0.04	a c t <sub>0.077</sub>
79. Diethyl Phthalate	84662					<sup>a s</sup> 23,000	a t120,000
80. Dimethyl Phthalate	131113					s>313,000	t>2,900,000
81. Di-n-Butyl Phthalate	84742					<sup>a s</sup> 2,700	<sup>a t</sup> 12,000
82. 2,4-Dinitrotoluene	121142					c s <sub>0.11</sub>	<sup>c t</sup> 9.1
83. 2,6-Dinitrotoluene	606202						
84. Di-n-Octyl Phthalate	117840			-	•		<u> </u>
85. 1,2-Diphenylhydrazine	122667					<sup>a c s</sup> 0.040	<sup>a c t</sup> 0.54
86. Fluoranthene	206440					<sup>a</sup> 300	<sup>a</sup> 370
87. Fluorene	86737					<sup>a</sup> 1,300	<sup>a</sup> 14,000
88. Hexachlorobenzene	118741					<sup>a c</sup> 0.00075	<sup>a c</sup> 0.00077
89. Hexachlorobutadiene	87683						

123/2013		00111	Oode of Le	aciai riogaic	200110		
						<sup>a c s</sup> 0.44	<sup>a c t</sup> 50
90. Hexachlorocyclopentadiene	77474					<sup>a s</sup> 240	<sup>a j t</sup> 17,000
91. Hexachloroethane	67721					<sup>a c s</sup> 1.9	a c t <sub>8.9</sub>
92. Indeno(1,2,3-cd) Pyrene	193395					<sup>a c</sup> 0.0044	<sup>a c</sup> 0.049
93. Isophorone	78591					<sup>c s</sup> 8.4	<sup>c t</sup> 600
94. Naphthalene	91203						
95. Nitrobenzene	98953					<sup>a s</sup> 17	<sup>a j t</sup> 1,900
96. N-Nitrosodimethylamine	62759					<sup>a c s</sup> 0.00069	<sup>a c t</sup> 8.1
97. N-Nitrosodi-n-Propylamine	621647					<sup>a</sup> 0.005	<sup>a</sup> 1.4
98. N-Nitrosodiphenylamine	86306					<sup>a c s</sup> 5.0	<sup>a c t</sup> 16
99. Phenanthrene	85018						
100. Pyrene	129000					<sup>a</sup> 960	<sup>a</sup> 11,000
101. 1,2,4-Trichlorobenzene	120821						
102. Aldrin	309002	g>3		<sup>g</sup> >1.3		<sup>a c</sup> 0.00013	<sup>a c</sup> 0.00014
103. alpha-BHC	319846					<sup>a c</sup> 0.0039	<sup>a c</sup> 0.013
104. beta-BHC	319857					<sup>a c</sup> 0.014	<sup>a c</sup> 0.046
105. gamma-BHC	58899	w>0.95		<sup>g</sup> >0.16		<sup>c</sup> >0.019	c>0.063
106. delta-BHC	319868						
107. Chlordane	57749	<sup>g</sup> >2.4	g>0.0043	g>0.09	<sup>g</sup> >0.004	<sup>a c</sup> 0.00057	<sup>a c</sup> 0.00059
108. 4,4'-DDT	50293	<sup>g</sup> >1.1	<sup>g</sup> >0.001	<sup>g</sup> >0.13	<sup>g</sup> >0.001	<sup>a c</sup> 0.00059	<sup>a c</sup> 0.00059
109. 4,4'-DDE	72559					<sup>a c</sup> 0.00059	<sup>a c</sup> 0.00059
110. 4,4'-DDD	72548					<sup>a c</sup> 0.00083	<sup>a c</sup> 0.00084
111. Dieldrin	60571	w>0.24	w>0.056	<sup>g</sup> >0.71	<sup>g</sup> >0.0019	<sup>a c</sup> 0.00014	<sup>a c</sup> 0.00014
112. alpha-Endosulfan	959988	g>0.22	<sup>g</sup> >0.056	g>0.034	g>0.0087	<sup>a</sup> 110	<sup>a</sup> 240
113. beta-Endosulfan	33213659	<sup>g</sup> >0.22	<sup>g</sup> >0.056	g>0.034	g>0.0087	<sup>a</sup> 110	<sup>a</sup> 240
114. Endosulfan Sulfate	1031078					<sup>a</sup> 110	<sup>a</sup> 240
115. Endrin	72208	w>0.086	w>0.036	g>0.037	g>0.0023	<sup>a</sup> 0.76	<sup>a j</sup> 0.81
116. Endrin Aldehyde	7421934					<sup>a</sup> 0.76	<sup>a j</sup> 0.81
117. Heptachlor	76448	<sup>g</sup> >0.52	g>0.0038	g>0.053	g>0.0036	<sup>a c</sup> 0.00021	<sup>a c</sup> 0.00021
118. Heptachlor Epoxide	1024573	<sup>g</sup> >0.52	g>0.0038	g>0.053	g>0.0036	<sup>a c</sup> 0.00010	<sup>a c</sup> 0.00011
119-125. Polychlorinated biphenyls (PCBs)			<sup>ur</sup> >0.014		ur>0.03	<sup>c v</sup> 0.00017	c v0.00017
126. Toxaphene	8001352	0.73	0.0002	0.21	0.0002	<sup>a c</sup> 0.00073	<sup>a c</sup> 0.00075
Total Number of Criteria <sup>hr</sup> >		22	21	22	20	92	90

### Footnotes to Table in Paragraph (b)(1):

<sup>a</sup>Criteria revised to reflect the Agency q1\* or RfD, as contained in the Integrated Risk Information System (IRIS) as of October 1, 1996. The fish tissue bioconcentration factor (BCF) from the 1980 documents was retained in each case.

<sup>b</sup>Criteria apply to California waters except for those waters subject to objectives in Tables III-2A and III-2B of the San Francisco Regional Water Quality Control Board's (SFRWQCB) 1986 Basin Plan that were adopted by the SFRWQCB and the State Water Resources Control Board, approved by the EPA, and which continue to apply. For copper and nickel, criteria apply to California waters except for waters south of Dumbarton Bridge in San Francisco Bay that are subject to the objectives in the SFRWQCB's Basin Plan as amended by SFRWQCB Resolution R2-2002-0061, dated May 22, 2002, and approved by the State Water Resources Control Board. The EPA approved the aquatic life site-specific objectives on January 21, 2003. The copper and nickel aquatic life site-specific objectives contained in the amended Basin Plan apply instead.

<sup>c</sup>Criteria are based on carcinogenicity of 10 (-6) risk.

<sup>d</sup>Criteria Maximum Concentration (CMC) equals the highest concentration of a pollutant to which aquatic life can be exposed for a short period of time without deleterious effects. Criteria Continuous Concentration (CCC) equals the highest concentration of a pollutant to which aquatic life can be exposed for an extended period of time (4 days) without deleterious effects. µg/L equals micrograms per liter.

<sup>e</sup>Freshwater aquatic life criteria for metals are expressed as a function of total hardness (mg/L) in the water body. The equations are provided in matrix at paragraph (b)(2) of this section. Values displayed above in the matrix correspond to a total hardness of 100 mg/l.

<sup>f</sup>Freshwater aquatic life criteria for pentachlorophenol are expressed as a function of pH, and are calculated as follows: Values displayed above in the matrix correspond to a pH of 7.8. CMC = exp(1.005(pH)-4.869). CCC = exp(1.005(pH)-5.134).

<sup>g</sup>This criterion is based on Clean Water Act (CWA) 304(a) aquatic life criterion issued in 1980, and was issued in one of the following documents: Aldrin/Dieldrin (EPA 440/5-80-019). Chlordane (EPA 440/5-80-027). DDT (EPA 440/5-80-038). Endosulfan

(EPA 440/5-80-046), Endrin (EPA 440/5-80-047), Heptachlor (440/5-80-052), Hexachlorocyclohexane (EPA 440/5-80-054), Silver (EPA 440/5-80-071). The Minimum Data Requirements and derivation procedures were different in the 1980 Guidelines than in the 1985 Guidelines. For example, a "CMC" derived using the 1980 Guidelines was derived to be used as an instantaneous maximum. If assessment is to be done using an averaging period, the values given should be divided by 2 to obtain a value that is more comparable to a CMC derived using the 1985 Guidelines.

<sup>h</sup>These totals simply sum the criteria in each column. For aquatic life, there are 23 priority toxic pollutants with some type of freshwater or saltwater, acute or chronic criteria. For human health, there are 92 priority toxic pollutants with either "water + organism" or "organism only" criteria. Note that these totals count chromium as one pollutant even though the EPA has developed criteria based on two valence states. In the matrix, the EPA has assigned numbers 5a and 5b to the criteria for chromium to reflect the fact that the list of 126 priority pollutants includes only a single listing for chromium.

<sup>i</sup>Criteria for these metals are expressed as a function of the water-effect ratio, WER, as defined in paragraph (c) of this section. CMC = column B1 or C1 value × WER; CCC = column B2 or C2 value × WER.

jNo criterion for protection of human health from consumption of aquatic organisms (excluding water) was presented in the 1980 criteria document or in the 1986 Quality Criteria for Water. Nevertheless, sufficient information was presented in the 1980 document to allow a calculation of a criterion, even though the results of such a calculation were not shown in the document.

kThe CWA 304(a) criterion for asbestos is the MCL.

<sup>I</sup>[Reserved].

<sup>m</sup>These freshwater and saltwater criteria for metals are expressed in terms of the dissolved fraction of the metal in the water column. Criterion values were calculated by using the EPA's Clean Water Act 304(a) guidance values (described in the total recoverable fraction) and then applying the conversion factors in §131.36(b)(1) and (2).

<sup>n</sup>The EPA is not promulgating human health criteria for these contaminants. However, permit authorities should address these contaminants in NPDES permit actions using the State's existing narrative criteria for toxics.

<sup>o</sup>These criteria were promulgated for specific waters in California in the National Toxics Rule ("NTR"), at §131.36. The specific waters to which the NTR criteria apply include: Waters of the State defined as bays or estuaries and waters of the State defined as inland, *i.e.*, all surface waters of the State not ocean waters. These waters specifically include the San Francisco Bay upstream to and including Suisun Bay and the Sacramento-San Joaquin Delta. This section does not apply instead of the NTR for this criterion.

<sup>p</sup>A criterion of 20 μg/l was promulgated for specific waters in California in the NTR and was promulgated in the total recoverable form. The specific waters to which the NTR criterion applies include: Waters of the San Francisco Bay upstream to and including Suisun Bay and the Sacramento-San Joaquin Delta; and waters of Salt Slough, Mud Slough (north) and the San Joaquin River, Sack Dam to the mouth of the Merced River. This section does not apply instead of the NTR for this criterion. The State of California adopted and the EPA approved a site specific criterion for the San Joaquin River, mouth of Merced to Vernalis; therefore, this section does not apply to these waters.

<sup>q</sup>This criterion is expressed in the total recoverable form. This criterion was promulgated for specific waters in California in the NTR and was promulgated in the total recoverable form. The specific waters to which the NTR criterion applies include: Waters of the San Francisco Bay upstream to and including Suisun Bay and the Sacramento-San Joaquin Delta; and waters of Salt Slough, Mud Slough (north) and the San Joaquin River, Sack Dam to Vernalis. This criterion does not apply instead of the NTR for these waters. This criterion applies to additional waters of the United States in the State of California pursuant to paragraph (c) of this section. The State of California adopted and the EPA approved a site-specific criterion for the Grassland Water District, San Luis National Wildlife Refuge, and the Los Banos State Wildlife Refuge; therefore, this criterion does not apply to these waters.

<sup>r</sup>These criteria were promulgated for specific waters in California in the NTR. The specific waters to which the NTR criteria apply include: Waters of the State defined as bays or estuaries including the Sacramento-San Joaquin Delta within California Regional Water Board 5, but excluding the San Francisco Bay. This section does not apply instead of the NTR for these criteria.

stress criteria were promulgated for specific waters in California in the NTR. The specific waters to which the NTR criteria apply include: Waters of the Sacramento-San Joaquin Delta and waters of the State defined as inland (*i.e.*, all surface waters of the State not bays or estuaries or ocean) that include a MUN use designation. This section does not apply instead of the NTR for these criteria.

<sup>t</sup>These criteria were promulgated for specific waters in California in the NTR. The specific waters to which the NTR criteria apply include: Waters of the State defined as bays and estuaries including San Francisco Bay upstream to and including Suisun

Bay and the Sacramento-San Joaquin Delta; and waters of the State defined as inland (*i.e.*, all surface waters of the State not bays or estuaries or ocean) without a MUN use designation. This section does not apply instead of the NTR for these criteria.

<sup>u</sup>PCBs are a class of chemicals which include aroclors 1242, 1254, 1221, 1232, 1248, 1260, and 1016, CAS numbers 53469219, 11097691, 11104282, 11141165, 12672296, 11096825, and 12674112, respectively. The aquatic life criteria apply to the sum of this set of seven aroclors.

 $^{
m V}$ This criterion applies to total PCBs, e.g., the sum of all congener or isomer or homolog or aroclor analyses.

WThis criterion has been recalculated pursuant to the 1995 Updates: Water Quality Criteria Documents for the Protection of Aquatic Life in Ambient Water, Office of Water, EPA-820-B-96-001, September 1996. See also Great Lakes Water Quality Initiative Criteria Documents for the Protection of Aquatic Life in Ambient Water, Office of Water, EPA-80-B-95-004, March 1995.

<sup>x</sup>The State of California has adopted and the EPA has approved site specific criteria for the Sacramento River (and tributaries) above Hamilton City; therefore, these criteria do not apply to these waters.

<sup>y</sup>The State of California adopted and the EPA approved a site-specific criterion for New Alamo Creek from Old Alamo Creek to Ulatis Creek and for Ulatis Creek from Alamo Creek to Cache Slough; therefore, this criterion does not apply to these waters.

<sup>z</sup>The State of California adopted and the EPA approved a site-specific criterion for the Los Angeles River and its tributaries; therefore, this criterion does not apply to these waters.

### General Notes To Table In Paragraph (b)(1)

- 1. The table in this paragraph (b)(1) lists all of the EPA's priority toxic pollutants whether or not criteria guidance are available. Blank spaces indicate the absence of national section 304(a) criteria guidance. Because of variations in chemical nomenclature systems, this listing of toxic pollutants does not duplicate the listing in appendix A to 40 CFR part 423—126 Priority Pollutants. The EPA has added the Chemical Abstracts Service (CAS) registry numbers, which provide a unique identification for each chemical.
- 2. The following chemicals have organoleptic-based criteria recommendations that are not included on this chart: zinc, 3-methyl-4-chlorophenol.
  - 3. Freshwater and saltwater aquatic life criteria apply as specified in paragraph (c)(3) of this section.
  - (2) Factors for Calculating Metals Criteria. Final CMC and CCC values should be rounded to two significant figures.
  - (i) CMC = WER × (Acute Conversion Factor) × (exp{ $m_A$ [1n (hardness)] +  $b_A$ })
  - (ii) CCC = WER × (Chronic Conversion Factor) × (exp{ $m_c$ [ln(hardness)] +  $b_c$ })
  - (iii) Table 1 to paragraph (b)(2) of this section:

Metal	m <sub>A</sub>	b <sub>A</sub>	m <sub>C</sub>	b <sub>C</sub>
Cadmium	1.128	-3.6867	0.7852	-2.715
Copper	0.9422	-1.700	0.8545	-1.702
Chromium (III)	0.8190	3.688	0.8190	1.561
Lead	1.273	-1.460	1.273	-4.705
Nickel	0.8460	2.255	0.8460	0.0584
Silver	1.72	-6.52		
Zinc	0.8473	0.884	0.8473	0.884

Note to Table 1: The term "exp" represents the base e exponential function.

(iv) Table 2 to paragraph (b)(2) of this section:

	, , , , , , , , , , , , , , , , , , , ,			CF <sup>a</sup> for saltwater chronic criteria
Antimony	( <sup>d</sup> )	( <sup>d</sup> )	( <sup>d</sup> )	( <sup>d</sup> )
Arsenic	1.000	1.000	1.000	1.000
Beryllium	( <sup>d</sup> )	( <sup>d</sup> )	( <sup>d</sup> )	( <sup>d</sup> )
Cadmium	<sup>b</sup> 0.944	<sup>b</sup> 0.909	0.994	0.994
Chromium (III)	0.316	0.860	( <sup>d</sup> )	( <sup>d</sup> )
Chromium (VI)	0.982	0.962	0.993	0.993

Copper	0.960	0.960	0.83	0.83
Lead	<sup>b</sup> 0.791	<sup>b</sup> 0.791	0.951	0.951
Mercury				
Nickel	0.998	0.997	0.990	0.990
Selenium		(°)	0.998	0.998
Silver	0.85	( <sup>d</sup> )	0.85	( <sup>d</sup> )
Thallium	( <sup>d</sup> )	( <sup>d</sup> )	( <sup>d</sup> )	( <sup>d</sup> )
Zinc	0.978	0.986	0.946	0.946

### FOOTNOTES TO TABLE 2 OF PARAGRAPH(b)(2):

<sup>a</sup>Conversion Factors for chronic marine criteria are not currently available. Conversion Factors for acute marine criteria have been used for both acute and chronic marine criteria.

<sup>b</sup>Conversion Factors for these pollutants in freshwater are hardness dependent. CFs are based on a hardness of 100 mg/l as calcium carbonate (CaCO<sub>3</sub>). Other hardness can be used; CFs should be recalculated using the equations in table 3 to paragraph (b)(2) of this section.

<sup>c</sup>Bioaccumulative compound and inappropriate to adjust to percent dissolved.

dEPA has not published an aquatic life criterion value.

NOTE TO TABLE 2 OF PARAGRAPH (b)(2): The term "Conversion Factor" represents the recommended conversion factor for converting a metal criterion expressed as the total recoverable fraction in the water column to a criterion expressed as the dissolved fraction in the water column. See "Office of Water Policy and Technical Guidance on Interpretation and Implementation of Aquatic Life Metals Criteria", October 1, 1993, by Martha G. Prothro, Acting Assistant Administrator for Water available from Water Resource Center, USEPA, Mailcode RC4100, M Street SW, Washington, DC 20460 and the note to §131.36(b)(1).

### (v) Table 3 to paragraph (b)(2) of this section:

	Acute	Chronic
Cadmium	CF = 1.136672—[(In {hardness}) (0.041838)]	CF = 1.101672—[(In {hardness})(0.041838)]
Lead	CF = 1.46203—[(In {hardness})(0.145712)]	CF = 1.46203—[(In {hardness})(0.145712)]

- (c) Applicability. (1) The criteria in paragraph (b) of this section apply to the State's designated uses cited in paragraph (d) of this section and apply concurrently with any criteria adopted by the State, except when State regulations contain criteria which are more stringent for a particular parameter and use, or except as provided in footnotes p, q, and x to the table in paragraph (b)(1) of this section.
- (2) The criteria established in this section are subject to the State's general rules of applicability in the same way and to the same extent as are other Federally-adopted and State-adopted numeric toxics criteria when applied to the same use classifications including mixing zones, and low flow values below which numeric standards can be exceeded in flowing fresh waters.
- (i) For all waters with mixing zone regulations or implementation procedures, the criteria apply at the appropriate locations within or at the boundary of the mixing zones; otherwise the criteria apply throughout the water body including at the point of discharge into the water body.
- (ii) The State shall not use a low flow value below which numeric standards can be exceeded that is less stringent than the flows in Table 4 to paragraph (c)(2) of this section for streams and rivers.
  - (iii) Table 4 to paragraph (c)(2) of this section:

Criteria	Design flow
Aquatic Life Acute Criteria (CMC)	1 Q 10 or 1 B 3
Aquatic Life Chronic Criteria (CCC)	7 Q 10 or 4 B 3
Human Health Criteria	Harmonic Mean Flow

Note to table 4 of paragraph (c)(2): 1. CMC (Criteria Maximum Concentration) is the water quality criteria to protect against acute effects in aquatic life and is the highest instream concentration of a priority toxic pollutant consisting of a short-term average not to be exceeded more than once every three years on the average.

- 2. CCC (Continuous Criteria Concentration) is the water quality criteria to protect against chronic effects in aquatic life and is the highest in stream concentration of a priority toxic pollutant consisting of a 4-day average not to be exceeded more than once every three years on the average.
  - 3. 1 Q 10 is the lowest one day flow with an average recurrence frequency of once in 10 years determined hydrologically.

- 4. 1 B 3 is biologically based and indicates an allowable exceedence of once every 3 years. It is determined by EPA's computerized method (DFLOW model).
- 5. 7 Q 10 is the lowest average 7 consecutive day low flow with an average recurrence frequency of once in 10 years determined hydrologically.
- 6. 4 B 3 is biologically based and indicates an allowable exceedence for 4 consecutive days once every 3 years. It is determined by EPA's computerized method (DFLOW model).
- (iv) If the State does not have such a low flow value below which numeric standards do not apply, then the criteria included in paragraph (d) of this section apply at all flows.
- (v) If the CMC short-term averaging period, the CCC four-day averaging period, or once in three-year frequency is inappropriate for a criterion or the site to which a criterion applies, the State may apply to EPA for approval of an alternative averaging period, frequency, and related design flow. The State must submit to EPA the bases for any alternative averaging period, frequency, and related design flow. Before approving any change, EPA will publish for public comment, a document proposing the change.
  - (3) The freshwater and saltwater aquatic life criteria in the matrix in paragraph (b)(1) of this section apply as follows:
- (i) For waters in which the salinity is equal to or less than 1 part per thousand 95% or more of the time, the applicable criteria are the freshwater criteria in Column B;
- (ii) For waters in which the salinity is equal to or greater than 10 parts per thousand 95% or more of the time, the applicable criteria are the saltwater criteria in Column C except for selenium in the San Francisco Bay estuary where the applicable criteria are the freshwater criteria in Column B (refer to footnotes p and q to the table in paragraph (b)(1) of this section); and
- (iii) For waters in which the salinity is between 1 and 10 parts per thousand as defined in paragraphs (c)(3)(i) and (ii) of this section, the applicable criteria are the more stringent of the freshwater or saltwater criteria. However, the Regional Administrator may approve the use of the alternative freshwater or saltwater criteria if scientifically defensible information and data demonstrate that on a site-specific basis the biology of the water body is dominated by freshwater aquatic life and that freshwater criteria are more appropriate; or conversely, the biology of the water body is dominated by saltwater aquatic life and that saltwater criteria are more appropriate. Before approving any change, EPA will publish for public comment a document proposing the change.
- (4) Application of metals criteria. (i) For purposes of calculating freshwater aquatic life criteria for metals from the equations in paragraph (b)(2) of this section, for waters with a hardness of 400 mg/l or less as calcium carbonate, the actual ambient hardness of the surface water shall be used in those equations. For waters with a hardness of over 400 mg/l as calcium carbonate, a hardness of 400 mg/l as calcium carbonate shall be used with a default Water-Effect Ratio (WER) of 1, or the actual hardness of the ambient surface water shall be used with a WER. The same provisions apply for calculating the metals criteria for the comparisons provided for in paragraph (c)(3)(iii) of this section.
- (ii) The hardness values used shall be consistent with the design discharge conditions established in paragraph (c)(2) of this section for design flows and mixing zones.
- (iii) The criteria for metals (compounds #1—#13 in the table in paragraph (b)(1) of this section) are expressed as dissolved except where otherwise noted. For purposes of calculating aquatic life criteria for metals from the equations in footnote i to the table in paragraph (b)(1) of this section and the equations in paragraph (b)(2) of this section, the water effect ratio is generally computed as a specific pollutant's acute or chronic toxicity value measured in water from the site covered by the standard, divided by the respective acute or chronic toxicity value in laboratory dilution water. To use a water effect ratio other than the default of 1, the WER must be determined as set forth in Interim Guidance on Determination and Use of Water Effect Ratios, U.S. EPA Office of Water, EPA-823-B-94-001, February 1994, or alternatively, other scientifically defensible methods adopted by the State as part of its water quality standards program and approved by EPA. For calculation of criteria using site-specific values for both the hardness and the water effect ratio, the hardness used in the equations in paragraph (b)(2) of this section must be determined as required in paragraph (c)(4)(ii) of this section. Water hardness must be calculated from the measured calcium and magnesium ions present, and the ratio of calcium to magnesium should be approximately the same in standard laboratory toxicity testing water as in the site water.
- (d)(1) Except as specified in paragraph (d)(3) of this section, all waters assigned any aquatic life or human health use classifications in the Water Quality Control Plans for the various Basins of the State ("Basin Plans") adopted by the California State Water Resources Control Board ("SWRCB"), except for ocean waters covered by the Water Quality Control Plan for Ocean Waters of California ("Ocean Plan") adopted by the SWRCB with resolution Number 90-27 on March 22, 1990, are subject to the criteria in paragraph (d)(2) of this section, without exception. These criteria apply to waters identified in the Basin Plans. More particularly, these criteria apply to waters identified in the Basin Plan chapters designating beneficial uses for waters within the region. Although the State has adopted several use designations for each of these waters, for purposes of this

action, the specific standards to be applied in paragraph (d)(2) of this section are based on the presence in all waters of some aquatic life designation and the presence or absence of the MUN use designation (municipal and domestic supply). (See Basin Plans for more detailed use definitions.)

(2) The criteria from the table in paragraph (b)(1) of this section apply to the water and use classifications defined in paragraph (d)(1) of this section as follows:

Water and use classification	Applicable criteria
use designation	(A) Columns B1 and B2—all pollutants (B) Columns C1 and C2—all pollutants (C) Column D1—all pollutants
MUN use designation	(A) Columns B1 and B2—all pollutants (B) Columns C1 and C2—all pollutants (C) Column D2—all pollutants

- (3) Nothing in this section is intended to apply instead of specific criteria, including specific criteria for the San Francisco Bay estuary, promulgated for California in the National Toxics Rule at §131.36.
  - (4) The human health criteria shall be applied at the State-adopted 10 (−6) risk level.
  - (5) Nothing in this section applies to waters located in Indian Country.
- (e) Schedules of compliance. (1) It is presumed that new and existing point source dischargers will promptly comply with any new or more restrictive water quality-based effluent limitations ("WQBELs") based on the water quality criteria set forth in this section.
- (2) When a permit issued on or after May 18, 2000 to a new discharger contains a WQBEL based on water quality criteria set forth in paragraph (b) of this section, the permittee shall comply with such WQBEL upon the commencement of the discharge. A new discharger is defined as any building, structure, facility, or installation from which there is or may be a "discharge of pollutants" (as defined in 40 CFR 122.2) to the State of California's inland surface waters or enclosed bays and estuaries, the construction of which commences after May 18, 2000.
- (3) Where an existing discharger reasonably believes that it will be infeasible to promptly comply with a new or more restrictive WQBEL based on the water quality criteria set forth in this section, the discharger may request approval from the permit issuing authority for a schedule of compliance.
- (4) A compliance schedule shall require compliance with WQBELs based on water quality criteria set forth in paragraph (b) of this section as soon as possible, taking into account the dischargers' technical ability to achieve compliance with such WQBEL.
- (5) If the schedule of compliance exceeds one year from the date of permit issuance, reissuance or modification, the schedule shall set forth interim requirements and dates for their achievement. The dates of completion between each requirement may not exceed one year. If the time necessary for completion of any requirement is more than one year and is not readily divisible into stages for completion, the permit shall require, at a minimum, specified dates for annual submission of progress reports on the status of interim requirements.
- (6) In no event shall the permit issuing authority approve a schedule of compliance for a point source discharge which exceeds five years from the date of permit issuance, reissuance, or modification, whichever is sooner. Where shorter schedules of compliance are prescribed or schedules of compliance are prohibited by law, those provisions shall govern.
- (7) If a schedule of compliance exceeds the term of a permit, interim permit limits effective during the permit shall be included in the permit and addressed in the permit's fact sheet or statement of basis. The administrative record for the permit shall reflect final permit limits and final compliance dates. Final compliance dates for final permit limits, which do not occur during the term of the permit, must occur within five years from the date of issuance, reissuance or modification of the permit which initiates the compliance schedule. Where shorter schedules of compliance are prescribed or schedules of compliance are prohibited by law, those provisions shall govern.
  - (8) The provisions in this paragraph (e), Schedules of compliance, shall expire on May 18, 2005.

[65 FR 31711, May 18, 2000, as amended at 66 FR 9961, Feb. 13, 2001; 68 FR 62747, Nov. 6, 2003; 78 FR 20255, Apr. 4, 2013; 83 FR 52166, Oct. 16, 2018]

▲ Back to Top

#### §131.40 Puerto Rico

(a) Use designations for marine waters. In addition to the Commonwealth's adopted use designations, the following waterbodies in Puerto Rico have the beneficial use designated in this paragraph (a) within the bays specified below, and within the Commonwealth's territorial seas, as defined in section 502(8) of the Clean Water Act, and 33 CFR 2.05-5, except such waters classified by the Commonwealth as SB.

Waterbody segment	From	То	Designated use
Coastal Waters	500m offshore	3 miles offshore	Primary Contact Recreation.
Guayanilla & Tallaboa Bays	Cayo Parguera	Punta Verraco	Primary Contact Recreation.
Mayaguez Bay	Punta Guanajibo	Punta Algarrobo	Primary Contact Recreation.
Ponce Port	Punta Carenero	Punta Cuchara	Primary Contact Recreation.
San Juan Port	mouth of Río Bayamón	Punta El Morro	Primary Contact Recreation.
Yabucoa Port	Punta Icacos	Punta Yeguas	Primary Contact Recreation.

(b) Criteria that apply to Puerto Rico's marine waters. In addition to all other Commonwealth criteria, the following criteria for bacteria apply to the waterbodies in paragraph (a) of this section:

Bacteria: The fecal coliform geometric mean of a series of representative samples (at least five samples) of the waters taken sequentially shall not exceed 200 colonies/100 ml, and not more than 20 percent of the samples shall exceed 400 colonies/100 ml. The enterococci density in terms of geometric mean of at least five representative samples taken sequentially shall not exceed 35/100 ml. No single sample should exceed the upper confidence limit of 75% using 0.7 as the log standard deviation until sufficient site data exist to establish a site-specific log standard deviation.

(c) Water quality standard variances. The Regional Administrator, EPA Region 2, is authorized to grant variances from the water quality standards in paragraphs (a) and (b) of this section where the requirements of §131.14 are met.

[69 FR 3524, Jan. 26, 2004, as amended at 80 FR 51050, Aug. 21, 2015]

#### ▲ Back to Top

### §131.41 Bacteriological criteria for those states not complying with Clean Water Act section 303(i)(1)(A).

- (a) *Scope*. This section is a promulgation of the Clean Water Act section 304(a) criteria for bacteria for coastal recreation waters in specific States. It is not a general promulgation of the Clean Water Act section 304(a) criteria for bacteria. This section also contains a compliance schedule provision.
- (b) *Definitions*. (1) *Coastal Recreation Waters* are the Great Lakes and marine coastal waters (including coastal estuaries) that are designated under section 303(c) of the Clean Water Act for use for swimming, bathing, surfing, or similar water contact activities. Coastal recreation waters do not include inland waters or waters upstream from the mouth of a river or stream having an unimpaired natural connection with the open sea.
- (2) Designated bathing beach waters are those coastal recreation waters that, during the recreation season, are heavily-used (based upon an evaluation of use within the State) and may have: a lifeguard, bathhouse facilities, or public parking for beach access. States may include any other waters in this category even if the waters do not meet these criteria.
- (3) Moderate use coastal recreation waters are those coastal recreation waters that are not designated bathing beach waters but typically, during the recreation season, are used by at least half of the number of people as at typical designated bathing beach waters within the State. States may also include light use or infrequent use coastal recreation waters in this category.
- (4) Light use coastal recreation waters are those coastal recreation waters that are not designated bathing beach waters but typically, during the recreation season, are used by less than half of the number of people as at typical designated bathing beach waters within the State, but are more than infrequently used. States may also include infrequent use coastal recreation waters in this category.
  - (5) Infrequent use coastal recreation waters are those coastal recreation waters that are rarely or occasionally used.
- (6) New pathogen discharger for the purposes of this section means any building, structure, facility, or installation from which there is or may be a discharge of pathogens, the construction of which commenced on or after December 16, 2004. It does not include relocation of existing combined sewer overflow outfalls.
- (7) Existing pathogen discharger for the purposes of this section means any discharger that is not a new pathogen discharger.
  - (c) EPA's section 304(a) ambient water quality criteria for bacteria. (1) Freshwaters:

		C Single sample maximum (per 100 ml)						
l a	B Geometric	Designated bathing	Moderate use costal recreation waters	waters	C4 Infrequent use coastal recreation waters (95% confidence level)			
E. coli <sup>e</sup>	126/100 mil <sup>a</sup>	<sup>b</sup> 235	<sup>b</sup> 298	<sup>b</sup> 409	<sup>b</sup> 575			
Enterococci <sup>e</sup>	33/100 ml <sup>c</sup>	<sup>b</sup> 61	<sup>b</sup> 78	<sup>b</sup> 107	<sup>b</sup> 151			

Footnotes to table in paragraph (c)(1):

- a. This value is for use with analytical methods 1103.1, 1603, or 1604 or any equivalent method that measures viable bacteria.
- b. Calculated using the following: single sample maximum = geometric mean \* 10 + (confidence level factor \* log standard deviation), where the confidence level factor is: 75%: 0.68; 82%: 0.94; 90%: 1.28; 95%: 1.65. The log standard deviation from EPA's epidemiological studies is 0.4.
  - c. This value is for use with analytical methods 1106.1 or 1600 or any equivalent method that measures viable bacteria.
- d. The State may determine which of these indicators applies to its freshwater coastal recreation waters. Until a State makes that determination, *E. coli* will be the applicable indicator.
- e. These values apply to *E. coli* or enterococci regardless of origin unless a sanitary survey shows that sources of the indicator bacteria are non-human and an epidemiological study shows that the indicator densities are not indicative of a human health risk.

### (2) Marine waters:

	C Single sample maximum (per 100 ml)						
		C1	C2	C3	C4		
	В	Designated bathing	Moderate use coastal recreation	Light use coastal recreation	Infrequent use coastal recreation		
Α	Geometric	beach	waters	waters	waters		
Indicator	mean	(75% confidence level)	(82% confidence level)	(90% confidence level)	(95% confidence level)		
Enterococci <sup>c</sup>	35/100 ml <sup>a</sup>	<sup>b</sup> 104	<sup>b</sup> 158	<sup>b</sup> 276	<sup>b</sup> 501		

Footnotes to table in paragraph (c)(2):

- a. This value is for use with analytical methods 1106.1 or 1600 or any equivalent method that measures viable bacteria.
- b. Calculated using the following: single sample maximum = geometric mean \* 10 + (confidence level factor \* log standard deviation), where the confidence level factor is: 75%: 0.68; 82%: 0.94; 90%: 1.28; 95%: 1.65. The log standard deviation from EPA's epidemiological studies is 0.7.
- c. These values apply to enterococci regardless of origin unless a sanitary survey shows that sources of the indicator bacteria are non-human and an epidemiological study shows that the indicator densities are not indicative of a human health risk.
- (3) As an alternative to the single sample maximum in paragraph (c)(1) or (c)(2) of this section, States may use a site-specific log standard deviation to calculate a single sample maximum for individual coastal recreation waters, but must use at least 30 samples from a single recreation season to do so.
- (d) Applicability. (1) The criteria in paragraph (c) of this section apply to the coastal recreation waters of the States identified in paragraph (e) of this section and apply concurrently with any ambient recreational water criteria adopted by the State, except for those coastal recreation waters where State regulations determined by EPA to meet the requirements of Clean Water Act section 303(i) apply, in which case the State's criteria for those coastal recreation waters will apply and not the criteria in paragraph (c) of this section.
- (2) The criteria established in this section are subject to the State's general rules of applicability in the same way and to the same extent as are other Federally-adopted and State-adopted numeric criteria when applied to the same use classifications.
- (e) Applicability to specific jurisdictions. (1) The criteria in paragraph (c)(1) of this section apply to fresh coastal recreation waters of the following States: Illinois, Minnesota, New York, Ohio, Pennsylvania, Wisconsin.

- (2) The criteria in paragraph (c)(2) of this section apply to marine coastal recreation waters of the following States: Alaska, California (except for coastal recreation waters within the jurisdiction of Regional Board 4), Florida, Georgia, Hawaii (except for coastal recreation waters within 300 meters of the shoreline), Louisiana, Maine (except for SA waters and SB and SC waters with human sources of fecal contamination), Maryland, Massachusetts, Mississippi, New York, North Carolina, Oregon, Puerto Rico (except for waters classified by Puerto Rico as intensely used for primary contact recreation and for those waters included in §131.40), Rhode Island, United States Virgin Islands.
- (f) Schedules of compliance. (1) This paragraph (f) applies to any State that does not have a regulation in effect for Clean Water Act purposes that authorizes compliance schedules for National Pollutant Discharge Elimination System permit limitations needed to meet the criteria in paragraph (c) of this section. All dischargers shall promptly comply with any new or more restrictive water quality-based effluent limitations based on the water quality criteria set forth in this section.
- (2) When a permit issued on or after December 16, 2004, to a new pathogen discharger as defined in paragraph (b) of this section contains water quality-based effluent limitations based on water quality criteria set forth in paragraph (c) of this section, the permittee shall comply with such water quality-based effluent limitations upon the commencement of the discharge.
- (3) Where an existing pathogen discharger reasonably believes that it will be infeasible to comply immediately with a new or more restrictive water quality-based effluent limitations based on the water quality criteria set forth in paragraph (c) of this section, the discharger may request approval from the permit issuing authority for a schedule of compliance.
- (4) A compliance schedule for an existing pathogen discharger shall require compliance with water quality-based effluent limitations based on water quality criteria set forth in paragraph (c) of this section as soon as possible, taking into account the discharger's ability to achieve compliance with such water quality-based effluent limitations.
- (5) If the schedule of compliance for an existing pathogen discharger exceeds one year from the date of permit issuance, reissuance or modification, the schedule shall set forth interim requirements and dates for their achievement. The period between dates of completion for each requirement may not exceed one year.

If the time necessary for completion of any requirement is more than one year and the requirement is not readily divisible into stages for completion, the permit shall require, at a minimum, specified dates for annual submission of progress reports on the status of interim requirements.

- (6) In no event shall the permit issuing authority approve a schedule of compliance for an existing pathogen discharge which exceeds five years from the date of permit issuance, reissuance, or modification, whichever is sooner.
- (7) If a schedule of compliance exceeds the term of a permit, interim permit limits effective during the permit shall be included in the permit and addressed in the permit's fact sheet or statement of basis. The administrative record for the permit shall reflect final permit limits and final compliance dates. Final compliance dates for final permit limits, which do not occur during the term of the permit, must occur within five years from the date of issuance, reissuance or modification of the permit which initiates the compliance schedule.

[69 FR 67242, Nov. 16, 2004]

### Back to Top

### §131.42 Antidegradation Implementation Methods for the Commonwealth of Puerto Rico.

- (a) General Policy Statement. (1) All point sources of pollution are subject to an antidegradation review.
- (2) An antidegradation review shall be initiated as part of the Section 401—"Water Quality Certification Process" of the Clean Water Act.
- (3) The 401 Certification Process shall follow the procedures established by the February 2, 1989 Resolution R-89-2-2 of the Governing Board of the Puerto Rico Environmental Quality Board (EQB).
- (4) The following are not subject to an antidegradation review due to the fact that they are nondischarge systems and are managed by specific applicable Puerto Rico regulations:
  - (i) All nonpoint sources of pollutants.
  - (ii) Underground Storage Tanks.
  - (iii) Underground Injection Facilities.
- (5) The protection of water quality shall include the maintenance, migration, protection, and propagation of desirable species, including threatened and endangered species identified in the local and federal regulations.

- (b) *Definitions*. (1) All the definitions included in Article 1 of the Puerto Rico Water Quality Standards Regulation (PRWQSR), as amended, are applicable to this procedure.
  - (2) High Quality Waters:
- (i) Are waters whose quality is better than the mandatory minimum level to support the CWA Section 101(a)(2) goals of propagation of fish, shellfish, wildlife and recreation in and on the waters. High Quality Waters are to be identified by EQB on a parameter-by-parameter basis.
  - (ii) [Reserved]
  - (3) Outstanding National Resources Waters (ONRWs):
- (i) Are waters classified as SA or SE in the PRWQSR, as amended, or any other water designated by Resolution of the Governing Board of EQB. ONRWs are waters that are recreationally or ecologically important, unique or sensitive.
  - (ii) [Reserved]
- (c) Antidegradation Review Procedure. (1) The antidegradation review will commence with the submission of the CWA Section 401 water quality certification request. EQB uses a parameter-by-parameter approach for the implementation of the anti-degradation policy and will review each parameter separately as it evaluates the request for certification. The 401 certification/antidegradation review shall comply with Article 4(B)(3) of the Puerto Rico Environmental Public Policy Act (Law No. 416 of September 22, 2004, as amended (12 LPRA 8001 et seq.)). Compliance with Article 4(B)(3) shall be conducted in accordance with the Reglamento de la Junta de Calidad Ambiental para el Proceso de Presentación, Evaluación y Trámite de Documentos Ambientales (EQB's Environmental Documents Regulation). As part of the evaluation of the Environmental Document an alternatives analysis shall be conducted (12 LPRA 8001(a)(5), EQB's Environmental Documents Regulation, e.g., Rules 211E and 253C), and a public participation period and a public hearing shall be provided (12 LPRA 8001(a), EQB's Environmental Documents Regulation, Rule 254).
  - (2) In conducting an antidegradation review, EQB will sequentially apply the following steps:
  - (i) Determine which level of antidegradation applies
  - (A) Tier 1—Protection of Existing and Designated Uses.
  - (B) Tier 2—Protection of High Quality Waters.
  - (C) Tier 3—Protection of ONRWs.
  - (ii) [Reserved]
- (3) Review existing water quality data and other information submitted by the applicant. The applicant shall provide EQB with the information regarding the discharge, as required by the PRWQSR including, but not limited to the following:
  - (i) A description of the nature of the pollutants to be discharged.
  - (ii) Treatment technologies applied to the pollutants to be discharged.
  - (iii) Nature of the applicant's business.
  - (iv) Daily maximum and average flow to be discharged.
  - (v) Effluent characterization.
  - (vi) Effluent limitations requested to be applied to the discharge according to Section 6.11 of the PRWQSR.
  - (vii) Location of the point of discharge.
  - (viii) Receiving waterbody name.
  - (ix) Water quality data of the receiving waterbody.
  - (x) Receiving waterbody minimum flow (7Q2 and 7Q10) for stream waters.
  - (xi) Location of water intakes within the waterbody.

- (xii) In the event that the proposed discharge will result in the lowering of water quality, data and information demonstrating that the discharge is necessary to accommodate important economic or social development in the area where the receiving waters are located.
  - (4) Determine if additional information or assessment is necessary to make the decision.
- (5) Prepare an intent to issue or deny the 401 water quality certificate and publish a notice in a newspaper of wide circulation in Puerto Rico informing the public of EQB's preliminary decision and granting a public participation period of at least thirty (30) days.
- (6) Address the comments received from the interested parties and consider such comments as part of the decision making process.
- (7) Make the final determination to issue or deny the requested 401 certification. Such decision is subject to the reconsideration procedure established in Law 170 of August 12, 1988, Ley de Procedimiento Administrativo Uniforme del Estado Libre Asociado de Puerto Rico (3 LPRA 2165).
  - (d) Implementation Procedures. (1) Activities Regulated by NPDES Permits
  - (i) Tier 1—Protection of Existing and Designated Uses:
  - (A) Tier 1 waters are:
- (1) Those waters of Puerto Rico (except Tier 2 or Tier 3 waters) identified as impaired and that have been included on the list required by Section 303(d) of the CWA; and
- (2) Those waters of Puerto Rico (except Tier 2 and Tier 3 waters) for which attainment of applicable water quality standards has been or is expected to be, achieved through implementation of effluent limitations more stringent than technology-based controls (Best Practicable Technology, Best Available Technology and Secondary Treatment).
- (B) To implement Tier 1 antidegradation, EQB shall determine if a discharge would lower the water quality to the extent that it would no longer be sufficient to protect and maintain the existing and designated uses of that waterbody.
- (C) When a waterbody has been affected by a parameter of concern causing it to be included on the 303(d) List, then EQB will not allow an increase of the concentration of the parameter of concern or pollutants affecting the parameter of concern in the waterbody. This no increase will be achieved by meeting the applicable water quality standards at the end of the pipe. Until such time that a Total Maximum Daily Load (TMDL) is developed for the parameter of concern for the waterbody, no discharge will be allowed to cause or contribute to further degradation of the waterbody.
- (D) When the assimilative capacity of a waterbody is not sufficient to ensure maintenance of the water quality standard for a parameter of concern with an additional load to the waterbody, EQB will not allow an increase of the concentration of the parameter of concern or pollutants affecting the parameter of concern in the waterbody. This no increase will be achieved by meeting the applicable water quality standards at the end of the pipe. Until such time that a TMDL is developed for the parameter of concern for the waterbody, no discharge will be allowed to cause or contribute to further degradation of the waterbody.
  - (ii) Tier 2—Protection of High Quality Waters:
- (A) To verify that a waterbody is a high quality water for a parameter of concern which initiates a Tier 2 antidegradation review, EQB shall evaluate and determine:
  - (1) The existing water quality of the waterbody;
- (2) The projected water quality of the waterbody pursuant to the procedures established in the applicable provisions of Articles 5 and 10 of the PRWQSR including but not limited to, Sections 5.2, 5.3, 5.4, 10.2, 10.3, 10.4, 10.5, and 10.6;
- (3) That the existing and designated uses of the waterbody will be fully maintained and protected in the event of a lowering of water quality.

In multiple discharge situations, the effects of all discharges shall be evaluated through a waste load allocation analysis in accordance with the applicable provisions of Article 10 of the PRWQSR or the applicable provisions of Article 5 regarding mixing zones.

(B) In order to allow the lowering of water quality in high quality waters, the applicant must show and justify the necessity for such lowering of water quality through compliance with the requirements of Section 6.11 of the PRWQSR. EQB will not allow

the entire assimilative capacity of a waterbody for a parameter of concern to be allocated to a discharger, if the necessity of the requested effluent limitation for the parameter of concern is not demonstrated to the full satisfaction of EQB.

- (iii) Tier 3—Protection of ONRWs:
- (A) EQB may designate a water as Class SA or SE (ONRWs) through a Resolution (PRWQSR Sections 2.1.1 and 2.2.1). Additionally, any interested party may nominate a specific water to be classified as an ONRW and the Governing Board of EQB will make the final determination. Classifying a water as an ONRW may result in the water being named in either Section 2.1.1 or 2.2.2 of the PRWQSR, which would require an amendment of the PRWQSR. The process for amending the PRWQSR, including public participation, is set forth in Section 8.6 of said regulation.
- (B) The existing characteristics of Class SA and SE waters shall not be altered, except by natural causes, in order to preserve the existing natural phenomena.
  - (1) No point source discharge will be allowed in ONRWs.
  - (2) [Reserved]
- (2) Activities Regulated by CWA Section 404 or Rivers and Harbors Action Section 10 Permits (Discharge of Dredged or Fill Material)
- (i) EQB will only allow the discharge of dredged or fill material into a wetland if it can be demonstrated that such discharge will not have an unacceptable adverse impact either individually or in combination with other activities affecting the wetland of concern. The impacts to the water quality or the aquatic or other life in the wetland due to the discharge of dredged or fill material should be avoided, minimized and mitigated.
- (ii) The discharge of dredged or fill material shall not be certified if there is a practicable alternative to the proposed discharge which would have less adverse impact on the recipient ecosystem, so long as the alternative does not have other more significant adverse environmental consequences. Activities which are not water dependent are presumed to have practicable alternatives, unless the applicant clearly demonstrates otherwise. No discharge of dredged and fill material shall be certified unless appropriate and practicable steps have been taken which minimize potential adverse impacts of the discharge on the recipient ecosystem. The discharge of dredged or fill material to ONRWs, however, shall be governed by paragraph (d) (1)(iii) of this section.

[72 FR 70524, Dec. 12, 2007]

# **★** Back to Top

### §131.43 Maine.

(a) Human health criteria for toxics for waters in Indian lands and for Waters outside of Indian lands where the sustenance fishing designated use established by 30 M.R.S. 6207(4) and (9) applies. The criteria for toxic pollutants for the protection of human health are set forth in the following table 1:

**TABLE 1—HUMAN HEALTH CRITERIA** 

		Water and organisms	Organisms only
Chemical name	CAS No.		(µg/L)
1. 1,1,2,2-Tetrachloroethane	79-34-5	0.09	0.2
2. 1,1,2-Trichloroethane	79-00-5	0.31	0.66
3. 1,1-Dichloroethylene	75-35-4	300	1000
4. 1,2,4,5-Tetrachlorobenzene	95-94-3	0.002	0.002
5. 1,2,4-Trichlorobenzene	120-82-1	0.0056	0.0056
6. 1,2-Dichlorobenzene	95-50-1	200	300
7. 1,2-Dichloropropane	78-87-5		2.3
8. 1,2-Diphenylhydrazine	122-66-7	0.01	0.02
9. 1,2-Trans-Dichloroethylene	156-60-5	90	300
10. 1,3-Dichlorobenzene	541-73-1	1	1
11. 1,3-Dichloropropene	542-75-6	0.21	0.87
12. 1,4-Dichlorobenzene	106-46-7		70
13. 2,4,5-Trichlorophenol	95-95-4	40	40
14. 2,4,6-Trichlorophenol	88-06-2	0.20	0.21
15. 2,4-Dichlorophenol	120-83-2	4	4
16. 2,4-Dimethylphenol	105-67-9	80	200
17. 2,4-Dinitrophenol	51-28-5	9	30
18. 2,4-Dinitrotoluene	121-14-2	0.036	0.13
19. 2-Chloronaphthalene	91-58-7	90	90

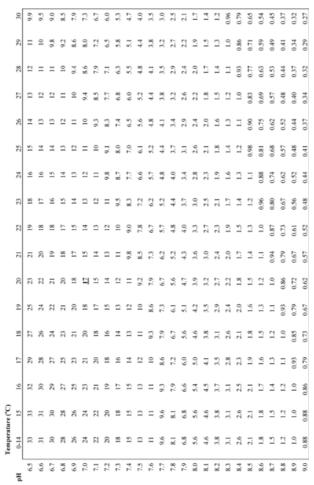
20. 2 Chlorophonol	05.57.0		leo
20. 2-Chlorophenol 21. 2-Methyl-4,6-Dinitrophenol	95-57-8 534-52-1	20	60
22. 3.3'-Dichlorobenzidine	91-94-1	0.0096	0.011
23. 4,4'-DDD	72-54-8		9.3E-06
	72-55-9		1.3E-06
24. 4,4'-DDE			1
25. 4,4'-DDT	50-29-3		2.2E-06
26. Acenaphthene	83-32-9		7
27. Acrolein	107-02-8	3	
28. Aldrin	309-00-2		5.8E-08
29. alpha-BHC 30. alpha-Endosulfan	319-84-6 959-98-8		2.9E-05 2
31. Anthracene	120-12-7		30
32. Antimony	7440-36-0		40
33. Benzene	71-43-2	0.40	
34. Benzo (a) Anthracene	56-55-3		9.8E-05
35. Benzo (a) Pyrene	50-32-8		9.8E-06
36. Benzo (b) Fluoranthene	205-99-2		9.8E-05
37. Benzo (k) Fluoranthene	207-08-9		0.00098
38. beta-BHC	319-85-7	0.0010	0.0011
39. beta-Endosulfan	33213-65-9		3
40. Bis(2-Chloro-1-Methylethyl) Ether	108-60-1	100	300
41. Bis(2-Chloroethyl) Ether	111-44-4	0.026	
42. Bis(2-Ethylhexyl) Phthalate	117-81-7		0.028
43. Bromoform	75-25-2		8.7
44. Butylbenzyl Phthalate	85-68-7		0.0077
45. Carbon Tetrachloride	56-23-5		0.3
46. Chlordane	57-74-9		2.4E-05
47. Chlorobenzene	108-90-7	40	60
48. Chlorodibromomethane	124-48-1		1.5
49. Chrysene	218-01-9		0.0098
50. Cyanide	57-12-5		30
51. Dibenzo (a,h) Anthracene 52. Dichlorobromomethane	53-70-3 75-27-4	9.8E-06	9.8E-06 2.0
53. Dieldrin	60-57-1	0.3E.00	9.3E-08
54. Diethyl Phthalate	84-66-2		9.3E-06 50
55. Dimethyl Phthalate	131-11-3		100
56. Di-n-Butyl Phthalate	84-74-2		2
57. Dinitrophenols	25550-58-7		70
58. Endosulfan Sulfate	1031-07-8		3
59. Endrin	72-20-8		0.002
60. Endrin Aldehyde	7421-93-4	0.09	0.09
61. Ethylbenzene	100-41-4	8.9	9.5
62. Fluoranthene	206-44-0	1	1
63. Fluorene	86-73-7		5
64. gamma-BHC (Lindane)	58-89-9	0.33	1
65. Heptachlor	76-44-8		4.4E-07
66. Heptachlor Epoxide	1024-57-3		2.4E-06
67. Hexachlorobenzene	118-74-1		5.9E-06
68. Hexachlorobutadiene	87-68-3		0.0007
69. Hexachlorocyclohexane-Technical	608-73-1		0.00076
70. Hexachlorocyclopentadiene 71. Hexachloroethane	77-47-4 67-72-1		0.3 0.01
71. Hexachioroethane 72. Indeno (1,2,3-cd) Pyrene	193-39-5		9.8E-05
73. Isophorone	78-59-1	უ.o⊏-Uე ეი	140
74. Methoxychlor	76-59-1	0.001	
75. Methylene Chloride	75-09-2	0.001	90
76. Methylmercury	22967-92-6		0.02 <sup>a</sup> (mg/kg)
77. Nickel	7440-02-0	20	20
78. Nitrobenzene	98-95-3		40
79. Nitrosamines	30 30-0	0.00075	
80. N-Nitrosodibutylamine	924-16-3	0.00438	
81. N-Nitrosodiethylamine	55-18-5		
82. N-Nitrosodimethylamine	62-75-9	0.00065	
83. N-Nitrosodi-n-propylamine	621-64-7	0.0042	
84. N-Nitrosodiphenylamine	86-30-6		0.42
85. N-Nitrosopyrrolidine	930-55-2		2.4
86. Pentachlorobenzene	608-93-5		0.008
87. Pentachlorophenol	87-86-5		0.003
88. Phenol	108-95-2		20,000
89. Polychlorinated Biphenyls (PCBs)	1336-36-3		4E-06 <sup>b</sup>
90. Pyrene	129-00-0		2
		20	60
91. Selenium	7782-49-2	20	00

92. Toluene	108-88-3	24	39
93. Toxaphene	8001-35-2	5.3E-05	5.3E-05
94. Trichloroethylene	79-01-6	0.3	0.5
95. Vinyl Chloride	75-01-4	0.019	0.12
96. Zinc	7440-66-6	300	400

<sup>a</sup>This criterion is expressed as the fish tissue concentration of methylmercury (mg methylmercury/kg fish) and applies equally to fresh and marine waters.

<sup>b</sup>This criterion applies to total PCBs (i.e., the sum of all congener or isomer or homolog or Aroclor analyses).

- (b) Bacteria criteria for waters in Indian lands. (1) The bacteria content of Class AA and Class A waters shall be as naturally occurs, and the minimum number of Escherichia coli bacteria shall not exceed a geometric mean of 100 colony-forming units per 100 milliliters (cfu/100 ml) in any 30-day interval; nor shall 320 cfu/100 ml be exceeded more than 10% of the time in any 30-day interval.
- (2) In Class B, Class C, and Class GPA waters, the number of *Escherichia coli* bacteria shall not exceed a geometric mean of 100 colony forming units per 100 milliliters (cfu/100 ml) in any 30- day interval; nor shall 320 cfu/100 ml be exceeded more than 10% of the time in any 30-day interval.
- (3) The bacteria content of Class SA waters shall be as naturally occurs, and the number of *Enterococcus* spp. bacteria shall not exceed a geometric mean of 30 cfu/100 ml in any 30-day interval, nor shall 110 cfu/100 ml be exceeded more than 10% of the time in any 30-day interval.
- (4) In Class SA shellfish harvesting areas, the numbers of total coliform bacteria or other specified indicator organisms in samples representative of the waters in shellfish harvesting areas may not exceed the criteria recommended under the National Shellfish Sanitation Program, United States Food and Drug Administration, as set forth in the Guide for the Control of Molluscan Shellfish, 2015 Revision. The Director of the Federal Register approves this incorporation by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. You may obtain a copy from the U.S. Food and Drug Administration Center for Food Safety and Applied Nutrition, Shellfish and Aquaculture Policy Branch, 5100 Paint Branch Parkway (HFS-325), College Park, MD 20740 or <a href="http://www.fda.gov/Food/GuidanceRegulation/FederalStateFoodPrograms/ucm2006754.htm">http://www.fda.gov/Food/GuidanceRegulation/FederalStateFoodPrograms/ucm2006754.htm</a>. You may inspect a copy at the U.S. Environmental Protection Agency Docket Center Reading Room, William Jefferson Clinton West Building, Room 3334, 1301 Constitution Avenue NW., Washington, DC 20004, (202) 566-1744, or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <a href="http://www.archives.gov/federal\_register/code\_of\_federal\_regulations/ibr\_locations.html">http://www.archives.gov/federal\_register/code\_of\_federal\_regulations/ibr\_locations.html</a>.
- (5) In Class SB and SC waters, the number of *Enterococcus* spp. bacteria shall not exceed a geometric mean of 30 cfu/100 ml in any 30-day interval, nor shall 110 cfu/100 ml be exceeded more than 10% of the time in any 30-day interval.
- (c) Ammonia criteria for fresh waters in Indian lands. (1) The one-hour average concentration of total ammonia nitrogen (in mg TAN/L) shall not exceed, more than once every three years, the criterion maximum concentration (i.e., the "CMC," or "acute criterion") set forth in Tables 2 and 3 of this section.
- (2) The thirty-day average concentration of total ammonia nitrogen (in mg TAN/L) shall not exceed, more than once every three years, the criterion continuous concentration (*i.e.*, the "CCC," or "chronic criterion") set forth in Table 4.
- (3) In addition, the highest four-day average within the same 30-day period as in (2) shall not exceed 2.5 times the CCC, more than once every three years.



View or download PDF

Table 3. Temperature and pH-Dependent Values of the CMC (Acute Criterion Magnitude)—Oncorhynchus spp. Absent. (Figure 5b in Aquatic Life Ambient Water Quality Criteria for Ammonia-Freshwater, EPA 822-R-13-001, April 2013.)

	Temp	Temperature (°C)	re (°C																		
된	0-10	=	12	13	7	15	91	17	18	16	20	21	22	23	24	25	56	27	28	56	30
6.5	51	48	4	4	37	34	32	53	27	22	23	21	61	8	91	15	4	13	12	=	6.6
9.9	49	46	42	39	36	33	30	28	26	24	22	20	18	17	16	4	13	12	=	10	9.5
6.7	46	4	40	37	34	31	29	27	24	22	21	19	18	91	15	4	13	12	=	8.6	9.0
8.9	4	4	38	35	32	30	27	25	23	21	20	82	17	15	7	13	12	Ξ	10	9.2	8.5
6.9	41	38	35	32	30	28	25	23	21	20	18	17	15	14	13	12	Ξ	10	9.4	8.6	7.9
7.0	38	35	33	30	28	25	23	21	20	18	17	15	4	13	12	=	10	9.4	8.6	7.9	7.3
7.1	34	32	30	27	25	23	21	20	8	17	15	14	13	12	=	10	9.3	8.5	7.9	7.2	6.7
7.2	31	53	27	25	23	21	19	18	16	15	14	13	12	Ξ	8.6	9.1	8.3	7.7	7.1	6.5	0.9
7.3	27	56	24	22	20	18	17	16	4	13	12	Ξ	10	9.5	8.7	8.0	7.4	8.9	6.3	5.8	5.3
7.4	24	22	21	61	8	16	15	4	13	12	=	8.6	9.0	8.3	7.7	7.0	6.5	0.9	5.5	5.1	4.7
7.5	21	19	18	17	15	14	13	12	Ξ	10	9.2	8.5	7.8	7.2	9.9	6.1	9.6	5.2	4.8	4.4	4.0
7.6	18	17	15	4	13	12	=	10	9.3	9.8	7.9	7.3	6.7	6.2	5.7	5.2	4.8	4.4	4.	3.8	3.5
7.7	15	7	13	12	Ξ	10	9.3	8.6	7.9	7.3	6.7	6.2	5.7	5.2	4.8	4.	<del>1</del> .	3.8	3.5	3.2	5.9
7.8	13	12	Ξ	01	9.3	8.5	7.9	7.2	6.7	6.1	9.6	5.2	4.8	4.4	4.0	3.7	3.4	3.2	2.9	2.7	2.5
7.9	=	6.6	9.1	8.4	7.7	7.1	9.9	3.0	9.6	5.1	4.7	4.3	4.0	3.7	3.4	3.1	5.9	5.6	2.4	2.2	2.1
8.0	8.8	8.2	9.7	7.0	6.4	5.9	5.4	5.0	4.6	4.2	3.9	3.6	3.3	3.0	2.8	5.6	2.4	2.2	2.0	1.9	1.7
8.1	7.2	8.9	6.3	5.8	5.3	4.9	4.5	1.	3.8	3.5	3.2	3.0	2.7	2.5	2.3	2.1	2.0	1.8	1.7	1.5	1.4
8.2	0.9	9.6	5.2	4.8	4.	4.0	3.7	3.4	3.1	2.9	2.7	2.4	2.3	2.1	67	8.	9.1	1.5	4.	1.3	1.2
8.3	4.9	4.6	4.3	3.9	3.6	3.3	3.1	2.8	5.6	2.4	2.2	2.0	1.9	1.7	9.1	1.4	1.3	1.2	Ξ	1.0	96.0
8.4	4.1	3.8	3.5	3.2	3.0	2.7	2.5	2.3	2.1	2.0	8:	1.7	1.5	1.4	.3	1.2	Ξ	1.0	0.93	98'0	0.79
8.5	3.3	3.1	5.9	2.7	2.4	2.3	2.1	1.9	8.	1.6	1.5	1.4	1.3	1.2	Ξ	86.0	0.90	0.83	0.77	0.71	99.0
8.6	2.8	5.6	2.4	2.2	2.0	1.9	1.7	9.1	1.5	1.3	1.2	Ξ	1.0	96'0	0.88	0.81	0.75	69.0	0.63	0.58	0.54
8.7	2.3	2.2	2.0	8.	1.7	1.6	1.4	1.3	1.2	Ξ	1.0	0.94	0.87	0.80	0.74	89.0	0.62	0.57	0.53	0.49	0.45
80 90	6.1	8.	1.7	1.5	4.	.3	1.2	Ξ	1.0	0.93	98.0	0.79	0.73	0.67	0.62	0.57	0.52	0.48	0.44	0.41	0.37
8.9	9.1	1.5	4.1	1.3	1.2	Ξ	1.0	0.93	0.85	0.79	0.72	0.67	0.61	0.56	0.52	0.48	0.44	0.40	0.37	0.34	0.32
9.0	1.4	1.3	1.2	Ξ	1.0	0.93	98.0	0.79	0.73	29.0	0.62	0.57	0.52	0.48	0,44	0.41	0.37	0.34	0.32	0.29	0.27

View or download PDF

0.57 0.44 0.38 0.32 0.27 0.20 271 0.76 0.68 0.61 0.40 0.40 0.29 0.29 0.21 0.28 0.89 0.65 0.65 0.50 0.50 0.31 0.31 0.26 0.26 0.26 Values of the CCC (Chronic Criterion Magnitude). (Figure 6 in Aquatic Life, EPA 822-R-13-001, April 2013.) PH-rature and for Ammor 

# View or download PDF

- (d) pH Criteria for fresh waters in Indian lands. The pH of fresh waters shall fall within the range of 6.5 to 8.5.
- (e) Temperature criteria for tidal waters in Indian lands. (1) The maximum acceptable cumulative increase in the weekly average temperature resulting from all artificial sources is 1 °C (1.8 °F) during all seasons of the year, provided that the summer maximum is not exceeded.
- (i) Weekly average temperature increase shall be compared to baseline thermal conditions and shall be calculated using the daily maxima averaged over a 7-day period.
- (ii) Baseline thermal conditions shall be measured at or modeled from a site where there is no artificial thermal addition from any source, and which is in reasonable proximity to the thermal discharge (within 5 miles), and which has similar hydrography to that of the receiving waters at the discharge.
  - (2) Natural temperature cycles characteristic of the waterbody segment shall not be altered in amplitude or frequency.
- (3) During the summer months (for the period from May 15 through September 30), water temperatures shall not exceed a weekly average summer maximum threshold of 18 °C (64.4 °F) (calculated using the daily maxima averaged over a 7-day period).
- (f) Natural conditions provisions for waters in Indian lands. (1) The provision in Title 38 of Maine Revised Statutes 464(4.C) which reads: "Where natural conditions, including, but not limited to, marshes, bogs and abnormal concentrations of wildlife cause the dissolved oxygen or other water quality criteria to fall below the minimum standards specified in section 465, 465-A and 465-B, those waters shall not be considered to be failing to attain their classification because of those natural conditions," does not apply to water quality criteria intended to protect human health.
- (2) The provision in Title 38 of Maine Revised Statutes 420(2.A) which reads "Except as naturally occurs or as provided in paragraphs B and C, the board shall regulate toxic substances in the surface waters of the State at the levels set forth in federal water quality criteria as established by the United States Environmental Protection Agency pursuant to the Federal Water Pollution Control Act, Public Law 92-500, Section 304(a), as amended," does not apply to water quality criteria intended to protect human health.

- (g) Mixing zone policy for waters in Indian lands. (1) Establishing a mixing zone. (i) The Department of Environmental Protection ("department") may establish a mixing zone for any discharge at the time of application for a waste discharge license if all of the requirements set forth in paragraphs (g)(2) and (3) of this section are satisfied. The department shall attach a description of the mixing zone as a condition of a license issued for that discharge. After opportunity for a hearing in accordance with 38 MRS section 345-A, the department may establish by order a mixing zone with respect to any discharge for which a license has been issued pursuant to section 414 or for which an exemption has been granted by virtue of 38 MRS section 413, subsection 2.
- (ii) The purpose of a mixing zone is to allow a reasonable opportunity for dilution, diffusion, or mixture of pollutants with the receiving waters such that an applicable criterion may be exceeded within a defined area of the waterbody while still protecting the designated use of the waterbody as a whole. In determining the extent of any mixing zone to be established under this section, the department will require from the applicant information concerning the nature and rate of the discharge; the nature and rate of existing discharges to the waterway; the size of the waterway and the rate of flow therein; any relevant seasonal, climatic, tidal, and natural variations in such size, flow, nature, and rate; the uses of the waterways that could be affected by the discharge, and such other and further evidence as in the department's judgment will enable it to establish a reasonable mixing zone for such discharge. An order establishing a mixing zone may provide that the extent thereof varies in order to take into account seasonal, climatic, tidal, and natural variations in the size and flow of, and the nature and rate of, discharges to the waterway.
  - (2) Mixing zone information requirements. At a minimum, any request for a mixing zone must:
- (i) Describe the amount of dilution occurring at the boundaries of the proposed mixing zone and the size, shape, and location of the area of mixing, including the manner in which diffusion and dispersion occur;
  - (ii) Define the location at which discharge-induced mixing ceases;
  - (iii) Document the substrate character and geomorphology within the mixing zone;
  - (iv) Document background water quality concentrations;
  - (v) Address the following factors;
  - (A) Whether adjacent mixing zones overlap;
  - (B) Whether organisms would be attracted to the area of mixing as a result of the effluent character; and
  - (C) Whether the habitat supports endemic or naturally occurring species.
- (vi) Provide all information necessary to demonstrate whether the requirements in paragraph (g)(3) of this section are satisfied.
- (3) *Mixing zone requirements*. (i) Mixing zones shall be established consistent with the methodologies in Sections 4.3 and 4.4 of the "Technical Support Document for Water Quality-based Toxics Control" EPA/505/2-90-001, dated March 1991.
- (ii) The mixing zone demonstration shall be based on the assumption that a pollutant does not degrade within the proposed mixing zone, unless:
- (A) Scientifically valid field studies or other relevant information demonstrate that degradation of the pollutant is expected to occur under the full range of environmental conditions expected to be encountered; and
- (B) Scientifically valid field studies or other relevant information address other factors that affect the level of pollutants in the water column including, but not limited to, resuspension of sediments, chemical speciation, and biological and chemical transformation.
- (iii) Water quality within an authorized mixing zone is allowed to exceed chronic water quality criteria for those parameters approved by the department. Acute water quality criteria may be exceeded for such parameters within the zone of initial dilution inside the mixing zone. Acute criteria shall be met as close to the point of discharge as practicably attainable. Water quality criteria shall not be violated outside of the boundary of a mixing zone as a result of the discharge for which the mixing zone was authorized.
- (iv) Mixing zones shall be as small as practicable. The concentrations of pollutants present shall be minimized and shall reflect the best practicable engineering design of the outfall to maximize initial mixing. Mixing zones shall not be authorized for bioaccumulative pollutants (*i.e.*, chemicals for which the bioconcentration factors (BCF) or bioaccumulation factors (BAF) are greater than 1,000) or bacteria.

- (v) In addition to the requirements above, the department may approve a mixing zone only if the mixing zone:
- (A) Is sized and located to ensure that there will be a continuous zone of passage that protects migrating, free-swimming, and drifting organisms;
- (B) Will not result in thermal shock or loss of cold water habitat or otherwise interfere with biological communities or populations of indigenous species;
- (C) Is not likely to jeopardize the continued existence of any endangered or threatened species listed under section 4 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 *et seq.*) or result in the destruction or adverse modification of such species' critical habitat;
  - (D) Will not extend to drinking water intakes and sources;
  - (E) Will not otherwise interfere with the designated or existing uses of the receiving water or downstream waters;
  - (F) Will not promote undesirable aquatic life or result in a dominance of nuisance species;
- (G) Will not endanger critical areas such as breeding and spawning grounds, habitat for state-listed threatened or endangered species, areas with sensitive biota, shellfish beds, fisheries, and recreational areas;
- (H) Will not contain pollutant concentrations that are lethal to mobile, migrating, and drifting organisms passing through the mixing zone;
- (I) Will not contain pollutant concentrations that may cause significant human health risks considering likely pathways of exposure;
  - (J) Will not result in an overlap with another mixing zone;
  - (K) Will not attract aquatic life;
  - (L) Will not result in a shore-hugging plume; and
  - (M) Is free from:
  - (1) Substances that settle to form objectionable deposits;
  - (2) Floating debris, oil, scum, and other matter in concentrations that form nuisances; and
  - (3) Objectionable color, odor, taste, or turbidity.
- (h) Dissolved oxygen criteria for class A waters throughout the State of Maine, including in Indian lands. The dissolved oxygen content of Class A waters shall not be less than 7 ppm (7 mg/L) or 75% of saturation, whichever is higher, year-round. For the period from October 1 through May 14, in fish spawning areas, the 7-day mean dissolved oxygen concentration shall not be less than 9.5 ppm (9.5 mg/L), and the 1-day minimum dissolved oxygen concentration shall not be less than 8 ppm (8.0 mg/L).
- (i) Waiver or modification of protection and improvement laws for waters throughout the State of Maine, including in Indian lands. For all waters in Maine, the provisions in Title 38 of Maine Revised Statutes 363-D do not apply to state or federal water quality standards applicable to waters in Maine, including designated uses, criteria to protect existing and designated uses, and antidegradation policies.
- (j) Phenol criterion for the protection of human health for Maine waters outside of Indian lands. The phenol criterion to protect human health for the consumption of water and organisms is 4000 micrograms per liter.

[81 FR 92487, Dec. 19, 2016]

**≜** Back to Top

# §131.44 Florida.

(a) Phosphorus Rule. (1) The document entitled "Florida Administrative Code, Chapter 62-302, Surface Water Quality Standards, Section 62-302.540, Water Quality Standards for Phosphorus Within the Everglades Protection Area, Amended May 25, 2005, as annotated by EPA" (Phosphorus Rule), is incorporated by reference as described in paragraph (a)(2). EPA is not incorporating the full text of this document, but correcting specified portions of the Phosphorus Rule as directed by a federal district court as indicated by the strikeout markings. The EPA is only incorporating by reference these crossed-out portions in

the Florida Administrative Code 62-302.540. The Director of the Federal Register approves this incorporation by reference in accordance with 5 U.S.C. 552(a). Copies of the document may be inspected and obtained from the docket associated with this rulemaking (Docket Number EPA-HQ-OW-2011-0515) at <a href="http://www.regulations.gov">http://www.regulations.gov</a> electronically, at EPA's Water Docket (Address: 1301 Constitution Avenue NW., EPA West, Room B102, Washington, DC 20460, telephone number: 202-566-2426), at the National Archives and Records Administration (NARA), and finally, on the EPA Web site associated with this rulemaking at <a href="http://water.epa.gov/lawsregs/rulesregs/floridaeverglades\_\_index.cfm">http://water.epa.gov/lawsregs/rulesregs/floridaeverglades\_\_index.cfm</a>. For information on the availability of this material at NARA, call 202-741-6030, or go to the following Web site

http://www.archives.gov/federal\_\_register/code\_\_of\_\_federal\_\_regulations/ibr\_\_locations.html. EPA adopts and identifies the portions of the document that have strikeout markings as portions of the Phosphorus Rule that EPA disapproved on December 3, 2009, and that are not applicable water quality standards for the purposes of the Clean Water Act. Remaining portions of the Phosphorus Rule that EPA had previously approved are applicable water quality standards for the purposes of the Clean Water Act but are not codified as federal regulations.

- (2) In the Phosphorus Rule, strike the following text:
- (i) The entire paragraph (1)(a);
- (ii) The entire paragraph (1)(b)(2);
- (iii) The entire paragraph and subparagraphs (2)(b), (2)(c), (2)(d), (2)(e), (2)(e), (2)(e)(2) and 2(f);
- (iv) The entire paragraph (2)(h);
- (v) The entire paragraph (2)(I);
- (vi) The entire paragraphs (3)(a) and (3)(b);
- (vii) The entire paragraph 3(f);
- (viii) The entire paragraph (3)(h);
- (ix) In (4)(d)(2)(c), the sentence, "If these limits are not met, no action shall be required, provided that the net improvement or hydropattern restoration provisions of subsection (6) below are met.";
  - (x) The entire paragraph (5)(a);
  - (xi) The entire paragraph (5)(b)(2) and (5)(b)(3);
  - (xii) The entire paragraph (5)(d);
- (xiii) The entire paragraph (6), including subparagraphs (6)(a), (6)(a)(1), (6)(a)(1)(a), (6)(a)(1)(b), (6)(a)(2), (6)(a)(3), (6)(a)(4), (6)(a)(5), (6)(b), (6)(b), (6)(b)(2), (6)(b)(3), and (6)(c).
- (b) Amended Everglades Forever Act. (1) The document entitled "Florida Statute, Title 28, Natural Resources; Conservation, Reclamation, and Use, Section 373.4592, Everglades improvement and management, effective July 1, 2008, also known as the "Everglades Forever Act," as annotated by EPA" is incorporated by reference as described in paragraph (b) (2). The EPA is not incorporating the full text of this document, but correcting specified portions of the statute as directed by the court as indicated by the strike out markings. The EPA is only incorporating by reference these crossed-out portions in the Florida Statute, the "Everglades Forever Act." The Director of the Federal Register approves this incorporation by reference in accordance with 5 U.S.C. 552(a). Copies of the document may be inspected and obtained from the docket associated with this rulemaking (Docket Number EPA-HQ-OW-2011-0515) at http://www.regulations.gov electronically, at EPA's Water Docket (Address: 1301 Constitution Avenue NW., EPA West, Room B102, Washington, DC 20460, telephone number: 202-566-2426), at the National Archives and Records Administration (NARA), and finally, on the EPA Web site associated with this rulemaking at http://water.epa.gov/lawsregs/rulesregs/floridaeverglades\_\_index.cfm. For information on the availability of this material at NARA, call 202-741-6030, or go to the following Web site

http://www.archives.gov/federal\_\_register/code\_\_of\_\_federal\_\_regulations/ibr\_\_locations.html. EPA adopts and identifies the portions of the document that have strikeout markings as portions of the statute that EPA disapproved on December 3, 2009, and that are not applicable water quality standards for the purposes of the Clean Water Act. Remaining portions of the statute that EPA had previously approved are applicable water quality standards for the purposes of the Clean Water Act but are not codified as federal regulations.

- (2) In the Everglades Forever Act, strike the following text:
- (i) The entire paragraph (2)(a);

- (ii) In paragraph (2)(g), the phrase, "and further described in the Long-Term Plan.";
- (iii) The entire paragraph (2)(j);
- (iv) The entire paragraph (2)(I);
- (v) The entire paragraph (2)(p);
- (vi) The entire paragraphs (3)(b), (3)(c), (3)(d) and (3)(e);
- (vii) In sentence 9 of paragraph (4)(a), the phrase, "design, construction, and implementation of the initial phase of the Long-Term Plan, including operation and maintenance, and research for the projects and strategies in the initial phase of the Long-Term Plan, and including";
- (viii) In sentence 1 of subparagraph (4)(a)(4), the phrase, "however, the district may modify this schedule to incorporate and accelerate enhancements to STA 3/4 as directed in the Long-Term Plan;";
  - (ix) The entire subparagraph (4)(a)(6);
  - (x) In subparagraph (4)(e)(2), the entire sentences 7, 8 and 9;
  - (xi) In subparagraph (4)(e)(3), the entire sentence 3;
- (xii) In sentence 1 of paragraph (10), the phrase, "to implement the pre-2006 projects and strategies of the Long-Term Plan", the phrase, "in all parts of the Everglades Protection Area", and the phrase "and moderating provisions";
  - (xiii) The entire paragraph (10)(a).
- (3) EPA is not incorporating the text annotations added by hand to the Everglades Forever Act. These text inserts are included only for the convenience of the reader and to improve the readability of the document.

[77 FR 46303, Aug. 3, 2012]

**★** Back to Top

# §131.45 Revision of certain Federal water quality criteria applicable to Washington.

- (a) Scope. This section promulgates human health criteria for priority toxic pollutants in surface waters in Washington.
- (b) Criteria for priority toxic pollutants in Washington. The applicable human health criteria are shown in Table 1.

**TABLE 1—HUMAN HEALTH CRITERIA FOR WASHINGTON** 

A		В					С	
Chemical		Cancer slope factor, CSF		Reference dose, RfD (mg/kg·d)	Bio- accumulation factor (L/kg tissue)	Bio- concentration factor (L/kg tissue)	Water & organisms (µg/L)	Organisms only (µg/L)
		(B1)	(B2)	(B3)	(B4)	(B5)	(C1)	(C2)
1. 1,1,1-Trichloroethane	71556		0.50	2	10		20,000	50,000
2. 1,1,2,2-Tetrachloroethane	79345	0.2	-		8.4		0.1	0.3
3. 1,1,2-Trichloroethane	79005	0.057	-		8.9		0.35	0.90
4. 1,1-Dichloroethylene	75354		0.50	0.05	2.6		700	4,000
5. 1,2,4-Trichlorobenzene	120821	0.029	-		430		0.036	0.037
6. 1,2-Dichlorobenzene	95501		0.50	0.3	82		700	800
7. 1,2-Dichloroethane	107062	0.0033	-		1.9		8.9	73
8. 1,2-Dichloropropane	78875		-					
9. 1,2-Diphenylhydrazine	122667	0.8	-		27		0.01	0.02
10. 1,2-Trans- Dichloroethylene	156605		0.50	0.02	4.7		200	1,000
11. 1,3-Dichlorobenzene	541731		0.50	0.002	190		2	2
12. 1,3-Dichloropropene	542756	0.122	-		3.0		0.22	1.2
13. 1,4-Dichlorobenzene	106467		0.50	0.07	84		200	200
14. 2,3,7,8-TCDD (Dioxin)**	1746016	156,000	=			5,000	1.3E-08	1.4E-08
15. 2,4,6-Trichlorophenol	88062		-					
16. 2,4-Dichlorophenol	120832		0.50	0.003	48		10	10
17. 2,4-Dimethylphenol	105679		-					
18. 2,4-Dinitrophenol	51285		0.50	0.002	4.4		30	100
19. 2,4-Dinitrotoluene	121142		-					
20. 2-Chloronaphthalene	91587		0.80	0.08	240		100	100

124 2 Ohlananhanal	ا محجوا	Ì	1	I Oode of Federal I	regulations	Ì	1	
21. 2-Chlorophenol 22. 2-Methyl-4,6-	95578 534521		0.50	0.0003	10		3	-
Dinitrophenol	334321		0.50	0.0003	10			,
23. 3,3'-Dichlorobenzidine	91941		-					
24. 3-Methyl-4- Chlorophenol	59507		-					
25. 4,4'-DDD	72548	0.24	-		240,000		7.9E-06	7.9E-06
26. 4,4'-DDE	72559	0.167	-		3,100,000		8.8E-07	8.8E-07
27. 4,4'-DDT	50293	0.34	_		1,100,000		1.2E-06	
28. Acenaphthene	83329		0.50	0.06	510		30	
29. Acrolein	107028		-	0.00	0.0			
30. Acrylonitrile	107131		-					
31. Aldrin	309002	17	-		650,000		4.1E-08	4.1E-08
32. alpha-BHC	319846	6.3	-		1,500		4.8E-05	4.8E-05
33. alpha-Endosulfan	959988		0.50	0.006	200		6	7
34. Anthracene	120127		0.50	0.3	610		100	100
35. Antimony	7440360		0.50	0.0004		1	6	90
36. Arsenic**	7440382	1.75	-			44	<sup>a</sup> 0.018	<sup>a</sup> 0.14
37. Asbestos	1332214		-					
38. Benzene	71432		-					
39. Benzidine 40. Benzo(a) Anthracene	92875 56553	0.73	-		3,900		0.00016	0.00016
41. Benzo(a) Pyrene	50328	7.3	-		3,900		1.6E-05	1.6E-05
42. Benzo(b) Fluoranthene	205992	0.73	-		3,900		0.00016	0.00016
43. Benzo(k) Fluoranthene	207089	0.073			3,900		0.00016	0.00016
44. beta-BHC	319857	1.8	-		180		0.0013	0.0014
45. beta-Endosulfan	33213659		-					
46. Bis(2-Chloroethyl) Ether	111444		-					
47. Bis(2-Chloro-1-	108601		0.50	0.04	10		400	900
Methylethyl) Ether* 48. Bis(2-Ethylhexyl)	117817	0.014	-		710		0.045	0.046
Phthalate 49. Bromoform	75252	0.0045			8.5		4.6	12
50. Butylbenzyl Phthalate	85687	0.0045			19,000		0.013	0.013
51. Carbon Tetrachloride	56235	0.0013			19,000		0.013	0.010
52. Chlordane	57749	0.35	_		60,000		2.2E-05	2.2E-05
53. Chlorobenzene	108907		0.50	0.02	22		100	200
54. Chlorodibromomethane	124481	0.04	-		5.3		0.60	2.2
55. Chloroform	67663		0.50	0.01	3.8		100	600
56. Chrysene	218019	0.0073	-		3,900		0.016	0.016
57. Copper	7440508		-					
58. Cyanide	57125	7.0	0.50	0.0006	2.000	1	9	
59. Dibenzo(a,h) Anthracene	53703	7.3	-		3,900		1.6E-05	1.6E-05
60. Dichlorobromomethane	75274	0.034	_		4.8		0.73	2.8
61. Dieldrin	60571	16	_		410,000		7.0E-08	7.0E-08
62. Diethyl Phthalate	84662		0.50	0.8	920		200	200
63. Dimethyl Phthalate	131113		0.50	10	4,000		600	600
64. Di-n-Butyl Phthalate	84742		0.50	0.1	2,900		8	3
65. Endosulfan Sulfate	1031078		0.50	0.006	140		9	
66. Endrin	72208		0.80	0.0003	46,000		0.002	0.002
67. Endrin Aldehyde	7421934		-	0.000	100		00	0.4
68. Ethylbenzene	100414 206440		0.50 0.50	0.022 0.04	160		29	31
69. Fluoranthene 70. Fluorene	86737		0.50	0.04	1,500 710		6 10	10
71. gamma-BHC; Lindane	58899		0.50	0.0047	2,500		0.43	
72. Heptachlor	76448	4.1	0.00	0.0041	330,000		3.4E-07	3.4E-07
73. Heptachlor Epoxide	1024573	5.5	_		35,000		2.4E-06	
74. Hexachlorobenzene	118741	1.02	-		90,000		5.0E-06	
75. Hexachlorobutadiene	87683	0.04			1,100		0.01	0.01
76. Hexachlorocyclopentadiene	77474		0.50	0.006	1,300		1	,
77. Hexachloroethane	67721	0.04	-		600		0.02	0.02
78. Indeno(1,2,3-cd) Pyrene	193395	0.73	-		3,900	-	0.00016	0.00016
79. Isophorone	78591		-					
80. Methyl Bromide	74839		0.50	0.02	1.4		300	
81. Methylene Chloride 82. Methylmercury	75092	0.002		0.0004	1.6		10	
	22967926		2.7E-05	0.0001				<sup>b</sup> 0.03 (mg/kg
loz. Metrylinercury		l.	1					
	7440020		0.50	ი ივ		/17	ลก	
83. Nickel	7440020 98953		0.50 0.50	0.02 0.002	3.1	47		100
	7440020 98953 62759		0.50 0.50	0.02 0.002	3.1	47	80	

Propylamine								1
87. N-Nitrosodiphenylamine	86306		-					
88. Pentachlorophenol (PCP)	87865	0.4	-		520		0.002	0.002
89. Phenol	108952		0.50	0.6	1.9		9,000	70,000
90. Polychlorinated Biphenyls (PCBs)		2	-			31,200	<sup>c</sup> 7E-06	<sup>c</sup> 7E-06
91. Pyrene	129000		0.50	0.03	860		8	8
92. Selenium	7782492		0.50	0.005		4.8	60	200
93. Tetrachloroethylene	127184	0.0021	-		76		2.4	2.9
94. Thallium**	7440280		-	0.000068		116	1.7	6.3
95. Toluene	108883		0.50	0.0097	17		72	130
96. Toxaphene	8001352		-					
97. Trichloroethylene	79016	0.05	-		13		0.3	0.7
98. Vinyl Chloride	75014	1.5	-		1.7			0.18
99. Zinc	7440666		0.50	0.3		47	1,000	1,000

<sup>&</sup>lt;sup>a</sup>This criterion refers to the inorganic form of arsenic only.

<sup>b</sup>This criterion is expressed as the fish tissue concentration of methylmercury (mg methylmercury/kg fish). See *Water Quality Criterion for the Protection of Human Health: Methylmercury* (EPA-823-R-01-001, January 3, 2001) for how this value is calculated using the criterion equation in EPA's 2000 Human Health Methodology rearranged to solve for a protective concentration in fish tissue rather than in water.

<sup>c</sup>This criterion applies to total PCBs (e.g., the sum of all congener or isomer or homolog or Aroclor analyses).

\*Bis(2-Chloro-1-Methylethyl) Ether was previously listed as Bis(2-Chloroisopropyl) Ether.

- \*\*These criteria were promulgated for Washington in the National Toxics Rule at 40 CFR 131.36, and are moved into 40 CFR 131.45 to have one comprehensive human health criteria rule for Washington.
- (c) Applicability. (1) The criteria in paragraph (b) of this section apply to waters with Washington's designated uses cited in paragraph (d) of this section and apply concurrently with other applicable water quality criteria.
- (2) The criteria established in this section are subject to Washington's general rules of applicability in the same way and to the same extent as are other federally promulgated and state-adopted numeric criteria when applied to the same use classifications in paragraph (d) of this section.
- (i) For all waters with mixing zone regulations or implementation procedures, the criteria apply at the appropriate locations within or at the boundary of the mixing zones; otherwise the criteria apply throughout the waterbody including at the end of any discharge pipe, conveyance or other discharge point within the waterbody.
- (ii) The state must not use a low flow value below which numeric non-carcinogen and carcinogen human health criteria can be exceeded that is less stringent than the harmonic mean flow for waters suitable for the establishment of low flow return frequencies (*i.e.*, streams and rivers). Harmonic mean flow is a long-term mean flow value calculated by dividing the number of daily flows analyzed by the sum of the reciprocals of those daily flows.
- (iii) If the state does not have such a low flow value for numeric criteria, then none will apply and the criteria in paragraph (b) of this section herein apply at all flows.
- (d) Applicable use designations. (1) All waters in Washington assigned to the following use classifications are subject to the criteria identified in paragraph (d)(2) of this section:
  - (i) Fresh waters—
  - (A) Miscellaneous uses: Harvesting (Fish harvesting);
  - (B) Recreational uses;
  - (C) Water supply uses: Domestic water (Domestic water supply);
  - (ii) Marine waters—
- (A) Miscellaneous uses: Harvesting (Salmonid and other fish harvesting, and crustacean and other shellfish (crabs, shrimp, scallops, etc.) harvesting);
  - (B) Recreational uses;

(C) Shellfish harvesting: Shellfish harvest (Shellfish (clam, oyster, and mussel) harvesting)

NOTE TO PARAGRAPH (d)(1): The source of these uses is Washington Administrative Code 173-201A-600 for Fresh waters and 173-201A-610 for Marine waters.

(2) For Washington waters that include the use classification of Domestic Water, the criteria in column C1 and the methylmercury criterion in column C2 of Table 1 in paragraph (b) of this section apply. For Washington waters that include any of the following use classifications but do not include the use classification of Domestic Water, the criteria in column C2 of Table 1 in paragraph (b) of this section apply: Harvesting (fresh and marine waters), Recreational Uses (fresh and marine waters), and Shellfish Harvesting.

[81 FR 85435, Nov. 28, 2016]

### ▲ Back to Top

# §131.46 Aquatic life criterion for cadmium in Oregon.

- (a) Scope. This section promulgates an acute aguatic life criterion for cadmium in freshwaters in Oregon.
- (b) Criterion for cadmium in Oregon. The aquatic life criterion in Table 1 applies to all freshwaters in Oregon where fish and aquatic life are a designated use.

TABLE 1—CADMIUM AQUATIC LIFE CRITERION FOR OREGON FRESHWATERS

Metal	CAS No.	Criterion Maximum Concentration (CMC) <sup>3</sup> (μg/L)
Cadmium <sup>1 2</sup>	7440439	[e <sup>(0.9789 × In(hardness) - 3.866)</sup> ] × CF
		Where CF = 1.136672 − [(In hardness) × (0.041838)].

<sup>&</sup>lt;sup>1</sup>The criterion for cadmium is expressed as the dissolved metal concentration.

<sup>2</sup>CF is the conversion factor used to convert between the total recoverable and dissolved forms of cadmium. The term (In hardness) in the CMC and the CF equation is the natural logarithm of the ambient hardness in mg/L (CaCO<sub>3</sub>). The default hardness concentrations from the applicable ecoregion in Table 2 of paragraph (c) of this section shall be used to calculate cadmium criteria in the absence of sufficiently representative ambient hardness data.

<sup>3</sup>The CMC is the highest allowable one-hour average instream concentration of cadmium. The CMC is not to be exceeded more than once every three years. The CMC is rounded to two significant figures.

(c) Estimated Values To Calculate Cadmium Criteria. The default inputs to calculate cadmium criteria in the absence of sufficiently representative ambient data are shown in Table 2.

TABLE 2—HARDNESS DEFAULTS WITHIN EACH LEVEL III ECOREGION IN OREGON

Level III ecoregion	Hardness (mg/L)
1 Coast Range	34.12
3 Willamette Valley	32.39
4 Cascades	28.39
9 Eastern Cascades Slopes and Foothills	36.08
10 Columbia Plateau	58.82
11 Blue Mountains	43.49
12 Snake River Plain	123.5
78 Klamath Mountains	40.61
80 Northern Basin and Range	98.62

- (d) *Applicability.* (1) The criterion in paragraph (b) of this section applies to freshwaters in Oregon where fish and aquatic life are a designated use, and applies concurrently with other applicable water quality criteria.
- (2) The criterion established in this section is subject to Oregon's general rules of applicability in the same way and to the same extent as are other federally promulgated and state-adopted numeric criteria when applied to freshwaters in Oregon where fish and aquatic life are a designated use.
- (i) For all waters with mixing zone regulations or implementation procedures, the criterion applies at the appropriate locations within or at the boundary of the mixing zones and outside of the mixing zones; otherwise the criterion applies throughout the water body including at the end of any discharge pipe, conveyance or other discharge point within the water body.

(ii) The state shall not use a low flow value that is less stringent than the values listed below for waters suitable for the establishment of low flow return frequencies (*i.e.*, streams and rivers) when calculating the available dilution for the purposes of determining the need for and establishing Water Quality-Based Effluent Limitations in National Pollutant Discharge Elimination System permits:

Acute	
criteria	
(CMC)	1Q10 or 1B3
Where:	
1. 1Q10 is the lowest one-day average flow event expec	sted to occur once every ten years, on average (determined hydrologically).
2. 1B3 is the lowest one-day average flow event expected	ed to occur once every three years, on average (determined biologically).

[82 FR 9173, Feb. 3, 2017]

**★** Back to Top

Need assistance?