

CHAPTER 61
WATER QUALITY STANDARDS

[Prior to 7/1/83, DEQ Ch 16]
[Prior to 12/3/86, Water, Air and Waste Management[900]]

WATER QUALITY STANDARDS

567—61.1 Rescinded, effective August 31, 1977.

567—61.2(455B) General considerations.

61.2(1) Policy statement. It shall be the policy of the commission to protect and enhance the quality of all the waters of the state. In the furtherance of this policy it will attempt to prevent and abate the pollution of all waters to the fullest extent possible consistent with statutory and technological limitations. This policy shall apply to all point and nonpoint sources of pollution.

These water quality standards establish selected criteria for certain present and future designated uses of the surface waters of the state. The standards establish the areas where these uses are to be protected and provide minimum criteria for waterways having nondesignated uses as well. Many surface waters are designated for more than one use. In these cases the more stringent criteria shall govern for each parameter.

Certain of the criteria are in narrative form without numeric limitations. In applying such narrative standards, decisions will be based on the U.S. Environmental Protection Agency's methodology described in "Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses," (1985) and on the rationale contained in "Quality Criteria for Water," published by the U.S. Environmental Protection Agency (1977), as updated by supplemental Section 304 (of the Act) Ambient Water Quality Criteria documents. To provide human health criteria for parameters not having numerical values listed in 61.3(3) Table 1, the required criteria will be based on the rationale contained in these EPA criteria documents. The human health criterion considered will be the value associated with the consumption of fish flesh and a risk factor of 10^{-5} for carcinogenic parameters. For noncarcinogenic parameters, the recommended EPA criterion will be selected. For Class C water, the EPA criteria for fish and water consumption will be selected using the same considerations for carcinogenic and noncarcinogenic parameters as noted above.

All methods of sample collection, preservation, and analysis used in applying any of the rules in these standards shall be in accord with those prescribed in 567—Chapter 63.

61.2(2) Antidegradation policy. It is the policy of the state of Iowa that:

a. Existing surface water uses and the level of water quality necessary to protect the existing uses will be maintained and protected.

b. Chemical integrity: For those water bodies where water quality significantly exceeds levels necessary to protect existing uses and the waters designated as high quality in 61.3(5) "e," that water quality will be maintained at or above existing quality, except when it is determined by the environmental protection commission after public hearing and after intergovernmental coordination and public participation provisions noted in the continuing planning process that there is need to allow a lower chemical quality because of necessary and justifiable economic and social development in the area. The state shall ensure adequate chemical quality to fully protect existing uses.

- (1) Bear Creek, mouth in Winneshiek County and tributary to the Upper Iowa River.
- (2) Bloody Run, mouth in Clayton County and tributary to the Mississippi River.
- (3) Catfish Creek from Swiss Valley Park in Dubuque County to its source.
- (4) Unnamed Creek known locally as Coldwater Creek with mouth in Winneshiek County and tributary to the Upper Iowa River.
- (5) Fenchel Creek, mouth to Richmond Springs, in Delaware County and tributary to the Maquoketa River.
- (6) Odell Branch (aka Fountain Spring Creek), mouth (section 10, T90N, R4W, Delaware County), tributary to Elk Creek, which is tributary to the Turkey River to west line of section 9, T90N, R4W, Delaware County.

(7) Iowa Great Lakes chain of lakes in Dickinson County, including West Lake Okoboji, Spirit Lake, East Lake Okoboji, Minnewashta Lake, Upper Gar Lake, and Lower Gar Lake.

(8) North Bear Creek, with mouth in Winneshiek County and tributary to Bear Creek, listed as number 1 in this listing.

(9) North Cedar Creek, with mouth in Clayton County and tributary to Sny Magill Creek.

(10) Sny Magill Creek, with mouth in Clayton County and tributary to the Mississippi River.

(11) Turkey River, from the point where it is joined by the Volga River in Clayton County to Vernon Springs in Howard County.

(12) Waterloo Creek, with mouth in Allamakee County and tributary to the Upper Iowa River.

(13) Maquoketa River, from confluence with South Fork Maquoketa River (section 16, T90N, R6W, Delaware County) to Highway 3 (north line of section 24, T91N, R7W, Fayette County).

(14) Spring Branch, mouth (section 10, T88N, R5W, Delaware County) to spring source (section 35, T89N, R5W, Delaware County).

(15) Little Turkey River, Clayton-Delaware County line to south line of section 11, T90N, R3W, Delaware County.

(16) Middle Fork Little Maquoketa River (aka Bankston Creek), west line of section 31, T90N, R1E to north line of section 33, T90N, R1W, Dubuque County.

(17) Brush Creek, north line of section 23, T85N, R3E to north line of section 1, T85N, R3E, Jackson County.

(18) Dalton Lake — Jackson County.

(19) Little Mill Creek, mouth (Jackson County) to west line of section 29, T86N, R4E, Jackson County.

(20) Mill Creek (aka Big Mill Creek), from confluence with Little Mill Creek in section 13, T86N, R4E, Jackson County, to confluence with Unnamed Creek, section 1, T86N, R3E, Jackson County.

(21) Unnamed Creek (tributary to Mill Creek), mouth (section 1, T86N, R3E, Jackson County) to west line of section 1, T86N, R3E, Jackson County.

(22) Unnamed Creek (aka South Fork Big Mill), tributary to Mill Creek, from mouth (section 8, T86N, R4E, Jackson County) to west line of section 17, T86N, R4E, Jackson County.

(23) Clear Creek, mouth (Allamakee County) to west line of section 25, T99N, R4W, Allamakee County.

(24) French Creek, mouth (Allamakee County) to east line of section 23, T99N, R5W, Allamakee County.

(25) Hickory Creek, mouth (Allamakee County) to south line of section 28, T96N, R5W, Allamakee County.

(26) Little Paint Creek, mouth to north line of section 30, T97N, R3W, Allamakee County.

(27) Paint Creek, from confluence with Little Paint Creek to road crossing in section 18, T97N, R4W, Allamakee County.

(28) Patterson Creek, mouth (Allamakee County) to east line of section 3, T98N, R6W, Allamakee County.

(29) Silver Creek, mouth (Allamakee County) to south line of section 31, T99N, R5W, Allamakee County.

(30) Village Creek, mouth (Allamakee County) to west line of section 19, T98N, R4W, Allamakee County.

(31) Wexford Creek, mouth to west line of section 25, T98N, R3W, Allamakee County.

(32) Buck Creek, mouth (Clayton County) to west line of section 9, T93N, R3W, Clayton County.

(33) Ensign Creek (aka Ensign Hollow), mouth (section 28, T92N, R6W, Clayton County) to spring source (section 29, T92N, R6W, Clayton County).

(34) South Cedar Creek (aka Cedar Creek), mouth (Clayton County) to north line of section 7, T92N, R3W, Clayton County.

- (35) Bear Creek, mouth (Fayette County) to west line of section 6, T92N, R7W, Fayette County.
- (36) Unnamed Creek (aka Glover's Creek), mouth to west line of section 15, T94N, R8W, Fayette County.
- (37) Grannis Creek, mouth to west line of section 36, T93N, R8W, Fayette County.
- (38) Mink Creek, mouth to west line of section 15, T93N, R7W, Fayette County.
- (39) Otter Creek, mouth (Fayette County) to confluence with Unnamed Creek (aka Glover's Creek) in section 22, T94N, R8W, Fayette County.
- (40) Nichols Creek (aka Bigalk Creek), mouth (section 18, T100N, R10W, Winneshiek County) to west line of section 23, T100N, R11W, Howard County.
- (41) Spring Creek, mouth (Mitchell County) to north line of section 8, T97N, R16W, Mitchell County.
- (42) Turtle Creek, mouth (Mitchell County) to east line of section 7, T99N, R17W, Mitchell County.
- (43) Wapsipicon River, from the town of McIntire to north line of section 20, T99N, R15W, Mitchell County.
- (44) Bohemian Creek, mouth (Winneshiek County) to Howard County Road 58 (west line of section 2, T97N, R11W, Howard County).
- (45) Coon Creek, mouth (Winneshiek County) to road crossing in section 13, T98N, R7W, Winneshiek County.
- (46) Smith Creek (aka Trout River), mouth to south line of section 33, T98N, R7W, Winneshiek County.
- (47) Unnamed Stream (aka Trout Run), mouth to south line of section 27, T98N, R8W, Winneshiek County.
- (48) Twin Springs Creek, mouth to springs in Twin Springs Park in section 20, T98N, R8W, Winneshiek County.
- (49) Canoe Creek (aka West Canoe Creek), from Winneshiek County Road W38 to west line of section 8, T99N, R8W, Winneshiek County.
- c.* Standards and restrictions more stringent than those applied to other waters may be applied by the commission to those waters listed below when it is determined that such more stringent standards and restrictions are necessary to fully maintain water quality at existing levels.
- West Lake Okoboji in Dickinson County.
- d.* The Mississippi River and the Missouri River do not meet the criteria of 61.2(2) "c" but nevertheless constitute waters of exceptional state and national significance. Water quality management decisions will be made in consideration of the exceptional value of the resource.
- e.* In furtherance of the policy stated in 61.2(2) "b," there shall be achieved the highest statutory and regulatory requirements for all new and existing point sources, and feasible management and regulatory programs pursuant to Section 208 of the Federal Water Pollution Control Act for nonpoint sources, both existing and proposed.
- f.* Physical and biological integrity: The waters designated as high-quality resource waters in 61.3(5) "e" will receive protection of existing uses through maintaining water quality levels necessary to fully protect existing uses or improve water quality to levels necessary to meet the designated use criterion in Tables 1, 2 and 3 and at preserving or enhancing the physical and biological integrity of these waters. This involves the protection of such features of the water body as channel alignment, bed characteristics, water velocity, aquatic habitat, and the type, distribution and abundance of existing aquatic species.
- g.* It is the intent of the antidegradation policy to protect and maintain the existing physical, biological, and chemical integrity of all waters of the state. Consistency with Iowa's water quality standards requires that any proposed activity modifying the existing physical, biological, or chemical integrity of a water of the state shall not adversely impact these resource attributes, either on an individual or cumulative basis. An adverse impact shall refer to the loss of or irreparable damage to the aquatic, semiaquatic or wildlife habitat or population, or a modification to the water body that would cause an overall degradation to the aquatic or wildlife population and diversity. The fish and wildlife division of the department and the U.S. Fish and Wildlife Service shall serve as consultants to the department for assessing impacts. Exceptions to the preceding will be allowed only if full mitigation is provided by the applicant and approved by the department.

For those waters of the state designated as high quality or high quality resource waters and the Mississippi and Missouri Rivers, any proposed activity that will adversely impact the existing physical, chemical, or biological integrity of that water will not be consistent with Iowa's water quality standards. Mitigation will not be allowed except in highly unusual situations where no other project alternatives exist. In these cases, full mitigation must be provided by the applicant and approved by the department.

h. This policy shall be applied in conjunction with water quality certification review pursuant to Section 401 of the Act. In the event that activities are specifically exempted from flood plain development permits or any other permits issued by this department in 567—Chapters 70, 71, and 72, the activity will be considered consistent with this policy. Other activities not otherwise exempted will be subject to 567—Chapters 70, 71, and 72 and this policy. The repair and maintenance of a drainage district ditch as defined in 567—70.2(455B,481A) will not be considered a violation of the antidegradation policy for the purpose of implementing Title IV of these rules. United States Army Corps of Engineers (Corps) nationwide permits 3, 4, 5, 6, 7, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 25, 27, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, and 44 as promulgated March 18, 2002, are certified pursuant to Section 401 of the Clean Water Act subject to the following regional conditions:

(1) Side slopes of a newly constructed channel will be no steeper than 2 horizontal to 1 vertical and planted to permanent, perennial, native vegetation if it is not armored.

(2) Nationwide permits with mitigation may require recording of the permit with the registrar of deeds or other appropriate official charged with the responsibility for maintaining records of title to, or interest in, real property and provide proof of recording to the Corps.

(3) Mitigation shall be scheduled for construction prior to or concurrent with the construction of the main project. Regional permit numbers 2, 7, 12, and 20 of the Rock Island District of the Corps are also certified. No specific Corps permit or 401 certification is required for activities covered by these permits unless required by the nationwide permit or the Corps, and the activities are allowed subject to the terms of the nationwide and regional permits. The department will maintain and periodically update a guidance document listing special waters of concern. This document will be provided to the Corps for use in determining whether preconstruction notices should be provided to the department and other interested parties prior to taking action on applications for projects that would normally be covered by a nationwide or regional permit and not require preconstruction notice under national nationwide permit conditions.

61.2(3) *Minimum treatment required.* All wastes discharged to the waters of the state must be of such quality that the discharge will not cause the narrative or numeric criteria limitations to be exceeded. Where the receiving waters provide sufficient assimilative capacity that the water quality standards are not the limiting factor, all point source wastes shall receive treatment in compliance with minimum effluent standards as adopted in rules by the department.

There are numerous parameters of water quality associated with nonpoint source runoff which are of significance to the designated water uses specified in the general and specific designations in 61.3(455B), but which are not delineated. It shall be the intent of these standards that the limits on such nonpoint source related parameters when adopted shall be those that can be achieved by best management practices as defined in the course of the continuing planning process from time to time. Existing water quality and nonpoint source runoff control technology will be evaluated in the course of the Iowa continuing planning process, and best management practices and limitations on specific water quality parameters will be reviewed and revised from time to time to ensure that the designated water uses and water quality enhancement goals are met.

61.2(4) Regulatory mixing zones. Mixing zones are recognized as being necessary for the initial assimilation of point source discharges which have received the required degree of treatment or control. Mixing zones shall not be used for, or considered as, a substitute for minimum treatment technology required by subrule 61.2(3). The objective of establishing mixing zones is to provide a means of control over the placement and emission of point source discharges so as to minimize environmental impacts. Waters within a mixing zone shall meet the general water quality criteria of subrule 61.3(2). Waters at and beyond mixing zone boundaries shall meet all applicable standards and the chronic and human health criteria of subrule 61.3(3), Tables 1 and 3, for that particular water body or segment. A zone of initial dilution may be established within the mixing zone beyond which the applicable standards and the acute criteria of subrule 61.3(3) will be met. For waters designated under subrule 61.3(5), any parameter not included in Tables 1, 2 and 3 of subrule 61.3(3), the chronic and human health criteria, and the acute criterion calculated following subrule 61.2(1), will be met at the mixing zone and zone of initial dilution boundaries, respectively.

a. Due to extreme variations in wastewater and receiving water characteristics, spatial dimensions of mixing zones shall be defined on a site-specific basis. These rules are not intended to define each individual mixing zone, but will set maximum limits which will satisfy most biological, chemical, physical and radiological considerations in defining a particular mixing zone. Additional details are noted in the "Supporting Document for Iowa Water Quality Management Plans," Chapter IV, July 1976, as revised on March 29, 2002, for considering unusual site-specific features such as side channels and sand bars which may influence a mixing zone. Applications for operation permits under 567—subrule 64.3(1) may be required to provide specific information related to the mixing zone characteristics below their outfall so that mixing zone boundaries can be determined.

b. For parameters included in Table 1 only (which does not include ammonia nitrogen), the dimensions of the mixing zone and the zone of initial dilution will be calculated using a mathematical model presented in the "Supporting Document for Iowa Water Quality Management Plans," Chapter IV, July 1976, as revised on March 29, 2002, or from instream studies of the mixing characteristics during low flow. In addition, the most restrictive of the following factors will be met:

- (1) The stream flow in the mixing zone may not exceed the most restrictive of the following:
 1. Twenty-five percent of the design low stream flows noted in subrule 61.2(5) for interior streams and rivers, and the Big Sioux and Des Moines Rivers.
 2. Ten percent of the design low stream flows noted in subrule 61.2(5) for the Mississippi and Missouri Rivers.
 3. The stream flow contained in the mixing zone at the most restrictive of the applicable mixing zone length criteria, noted below.
- (2) The length of the mixing zone below the point of discharge shall be set by the most restrictive of the following:
 1. The distance to the juncture of two perennial streams.
 2. The distance to a public water supply intake.
 3. The distance to the upstream limits of an established recreational area, such as public beaches, and state, county and local parks.
 4. The distance to the middle of a crossover point in a stream where the main current flows from one bank across to the opposite bank.
 5. The distance to another mixing zone.
 6. Not to exceed a distance of 2000 feet.
 7. The location where the mixing zone contained the percentages of stream flow noted in 61.2(4)"b"(1).
- (3) The width of the mixing zone is calculated as the portion of the stream containing the allowed mixing zone stream flow. The mixing zone width will be measured perpendicular to the basic direction of stream flow at the downstream boundary of the mixing zone. This measurement will only consider the distance of continuous water surface.
- (4) The width and length of the zone of initial dilution may not exceed 10 percent of the width and length of the mixing zone.

c. The stream flow used in determining wasteload allocations to ensure compliance with the maximum contaminant level (MCL), chronic and human health criteria of Table 1 will be that value contained at the boundary of the allowed mixing zone. This stream flow may not exceed the following percentages of the design low stream flow as measured at the point of discharge:

- (1) Twenty-five percent for interior streams and rivers, and the Big Sioux and Des Moines Rivers.
- (2) Ten percent for the Mississippi and Missouri Rivers.

The stream flow in the zone of initial dilution used in determining effluent limits to ensure compliance with the acute criteria of Table 1 may not exceed 10 percent of the calculated flow associated with the mixing zone.

d. For toxic parameters noted in Table 1, the following exceptions apply to the mixing zone requirements:

(1) No mixing zone or zone of initial dilution will be allowed for waters designated as lakes or wetlands.

(2) No zone of initial dilution will be allowed in waters designated as cold water.

(3) The use of a diffuser device to promote rapid mixing of an effluent in a receiving stream will be considered on a case-by-case basis with its usage as a means for dischargers to comply with an acute numerical criterion.

(4) A discharger to interior streams and rivers, the Big Sioux and Des Moines Rivers, and the Mississippi or Missouri Rivers may provide to the department, for consideration, instream data which technically supports the allowance of an increased percentage of the stream flow contained in the mixing zone due to rapid and complete mixing. Any allowed increase in mixing zone flow would still be governed by the mixing zone length restrictions. The submission of data should follow the guidance provided in the "Supporting Document for Iowa Water Quality Management Plans," Chapter IV, July 1976, as revised on March 29, 2002.

e. For ammonia criteria noted in Table 3, the dimensions of the mixing zone and the zone of initial dilution will be calculated using a mathematical model presented in the "Supporting Document for Iowa Water Quality Management Plans," Chapter IV, July 1976, as revised on March 29, 2002, or from instream studies of the mixing characteristics during low flow. In addition, the most restrictive of the following factors will be met:

(1) The stream flow in the mixing zone may not exceed the most restrictive of the following:

1. One hundred percent of the design low stream flows noted in subrule 61.2(5) for locations where the dilution ratio is less than or equal to 2:1.

2. Fifty percent of the design low stream flows noted in subrule 61.2(5) for locations where the dilution ratio is greater than 2:1, but less than or equal to 5:1.

3. Twenty-five percent of the design low stream flows noted in subrule 61.2(5) for locations where the dilution ratio is greater than 5:1.

4. The stream flow contained in the mixing zone at the most restrictive of the applicable mixing zone length criteria, noted below.

(2) The length of the mixing zone below the point of discharge shall be set by the most restrictive of the following:

1. The distance to the juncture of two perennial streams.

2. The distance to a public water supply intake.

3. The distance to the upstream limits of an established recreational area, such as public beaches, and state, county, and local parks.

4. The distance to the middle of a crossover point in a stream where the main current flows from one bank across to the opposite bank.

5. The distance to another mixing zone.

6. Not to exceed a distance of 2000 feet.

7. The location where the mixing zone contained the percentages of stream flow noted in 61.2(4)"e"(1).

(3) The width of the mixing zone is calculated as the portion of the stream containing the allowed mixing zone stream flow. The mixing zone width will be measured perpendicular to the basic direction of stream flow at the downstream boundary of the mixing zone. This measurement will only consider the distance of continuous water surface.

(4) The width and length of the zone of initial dilution may not exceed 10 percent of the width and length of the mixing zone.

f. For ammonia criteria noted in Table 3, the stream flow used in determining wasteload allocations to ensure compliance with the chronic criteria of Table 3 will be that value contained at the boundary of the allowed mixing zone. This stream flow may not exceed the percentages of the design low stream flow noted in 61.2(4)“*e*”(1) as measured at the point of discharge.

The pH and temperature values at the boundary of the mixing zone used to select the chronic ammonia criteria of Table 3 will be from one of the following sources. The source of the pH and temperature data will follow the sequence listed below, if applicable data exists from the source.

(1) Specific pH and temperature data provided by the applicant gathered at their mixing zone boundary. Procedures for obtaining this data are noted in the “Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on March 29, 2002.

(2) Regional background pH and temperature data provided by the applicant gathered along the receiving stream and representative of the background conditions at the outfall. Procedures for obtaining this data are noted in the “Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on March 29, 2002.

(3) The statewide average background values presented in Table IV-2 of the “Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on March 29, 2002.

The stream flow in the zone of initial dilution used in determining effluent limits to ensure compliance with the acute criteria of Table 3 may not exceed 5 percent of the calculated flow associated with the mixing zone for facilities with a dilution ratio of less than or equal to 2:1, and not exceed 10 percent of the calculated flow associated with the mixing zone for facilities with a dilution ratio of greater than 2:1. The pH and temperature values at the boundary of the zone of initial dilution used to select the acute ammonia criteria of Table 3 will be from one of the following sources and follow the sequence listed below, if applicable data exists from the source.

1. Specific effluent pH and temperature data if the dilution ratio is less than or equal to 2:1.

2. If the dilution ratio is greater than 2:1, the logarithmic average pH of the effluent and the regional or statewide pH provided in 61.2(4)“*f*” will be used. In addition, the flow proportioned average temperature of the effluent and the regional or statewide temperature provided in 61.2(4)“*f*” will be used. The procedures for calculating these data are noted in the “Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on March 29, 2002.

g. For ammonia criteria noted in Table 3, the following exceptions apply to the mixing zone requirements.

(1) No mixing zone or zone of initial dilution will be allowed for waters designated as lakes or wetlands.

(2) No zone of initial dilution will be allowed in waters designated as cold water.

(3) The use of a diffuser device to promote rapid mixing of an effluent in a receiving stream will be considered on a case-by-case basis with its usage as a means for dischargers to comply with an acute numerical criterion.

(4) A discharger to interior streams and rivers, the Big Sioux and Des Moines Rivers, and the Mississippi and Missouri Rivers may provide to the department, for consideration, instream data which technically supports the allowance of an increased percentage of the stream flow contained in the mixing zone due to rapid and complete mixing. Any allowed increase in mixing zone flow would still be governed by the mixing zone length restrictions. The submission of data should follow the guidance provided in the “Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on March 29, 2002.

h. Temperature changes within mixing zones established for heat dissipation will not exceed the temperature criteria in 61.3(3)“b”(5).

i. The appropriateness of establishing a mixing zone where a substance discharged is bioaccumulative, persistent, carcinogenic, mutagenic, or teratogenic will be carefully evaluated. In such cases, effects such as potential groundwater contamination, sediment deposition, fish attraction, bioaccumulation in aquatic life, bioconcentration in the food chain, and known or predicted safe exposure levels shall be considered.

61.2(5) Implementation strategy. Numerical criteria specified in these water quality standards shall be met when the flow of the receiving stream equals or exceeds the design low flows noted below.

Type of Numerical Criteria	Design Low Flow Regime
Aquatic Life Protection (TOXICS)	
Acute	1Q ₁₀
Chronic	7Q ₁₀
Aquatic Life Protection (AMMONIA - N)	
Acute	1Q ₁₀
Chronic	30Q ₁₀
Human Health Protection & MCL	
Noncarcinogenic	30Q ₅
Carcinogenic	Harmonic mean

Exceptions may be made for intermittent or low flow streams classified as significant resource warm waters or limited resource warm waters. For these waters, the department may waive the design low flow requirement and establish a minimum flow in lieu thereof. Such waiver shall be granted only when it has been determined that the aquatic resources of the receiving waters are of no significance at flows less than the established minimum, and that the continued maintenance of the beneficial uses of the receiving waters will be ensured. In no event will toxic conditions be allowed to occur in the receiving waters outside of mixing zones established pursuant to subrule 61.2(4). The policy for granting waivers is described in the “Supporting Document for Iowa Water Quality Management Plans,” Chapter IV, July 1976, as revised on March 29, 2002. (Copies are available upon request to the Department of Natural Resources, Henry A. Wallace Building, 900 East Grand, Des Moines, Iowa 50319-0034. Copy also on file with the Iowa Administrative Rules Coordinator.)

All minimum flows established under the provisions of this rule will be published by the department. The minimum flows, commonly termed protected flows, are presented in “Iowa Water Quality Standards: Protected Flows For Selected Stream Segments,” dated April 1, 1996. A copy of this document is available upon request from the department. A copy is also on file with the Iowa Administrative Rules Coordinator.

a. The allowable 3°C temperature increase criterion for warm water interior streams, 61.3(3)“f”(1), is based in part on the need to protect fish from cold shock due to rapid cessation of heat source and resultant return of the receiving stream temperature to natural background temperature. On low flow streams, in winter, during certain conditions of relatively cold background stream temperature and relatively warm ambient air and groundwater temperature, certain wastewater treatment plants with relatively constant flow and constant temperature discharges will cause temperature increases in the receiving stream greater than allowed in 61.3(3)“f”(1).

b. During the period November 1 to March 31, for the purpose of applying the 3°C temperature increase criterion, the minimum protected receiving stream flow rate below such discharges may be increased to not more than three times the rate of flow of the discharge, where there is reasonable assurance that the discharge is of such constant temperature and flow rate and continuous duration as to not constitute a threat of heat cessation and not cause the receiving stream temperature to vary more than 3°C per day.

c. Site-specific water quality criteria may be allowed in lieu of the specific numerical criteria listed in Tables 1 and 3 of this chapter if adequate documentation is provided to show that the proposed criteria will protect all existing or potential uses of the surface water. Site-specific water quality criteria may be appropriate where:

- (1) The types of organisms differ significantly from those used in setting the statewide criteria; or
- (2) The chemical characteristics of the surface water such as pH, temperature, and hardness differ significantly from the characteristics used in setting the statewide criteria.

Development of site-specific criteria shall include an evaluation of the chemical and biological characteristics of the water resource and an evaluation of the impact of the discharge. All evaluations for site-specific criteria modification must be coordinated through the department, and be conducted using scientifically accepted procedures approved by the department. Any site-specific criterion developed under the provisions of this subrule is subject to the review and approval of the U.S. Environmental Protection Agency. All criteria approved under the provisions of this subrule will be published periodically by the department. Guidelines for establishing site-specific water quality criteria can be found in "Water Quality Standards Handbook," published by the U.S. Environmental Protection Agency, December 1983.

d. A wastewater treatment facility may submit to the department technically valid instream data which provides additional information to be used in the calculations of their wasteload allocations and effluent limitations. This information would be in association with the low flow characteristics, width, length and time of travel associated with the mixing zone or decay rates of various effluent parameters. The wasteload allocation will be calculated considering the applicable data and consistent with the provisions and restrictions in the rules.

567—61.3(455B) Surface water quality criteria.

61.3(1) Surface water classification. All waters of the state are classified for protection of beneficial uses. These classified waters include general use segments and designated use segments.

a. *General use segments.* These are intermittent watercourses and those watercourses which typically flow only for short periods of time following precipitation in the immediate locality or as a result of discharges from wastewater treatment facilities, and whose channels are normally above the water table. These waters do not support a viable aquatic community of significance during low flow, and do not maintain pooled conditions during periods of no flow.

However, during periods when sufficient flow exists in the intermittent watercourses to support various uses, the general use segments are to be protected for livestock and wildlife watering, noncontact recreation, crop irrigation, and industrial, agricultural, domestic and other incidental water withdrawal uses. The aquatic life existing within these watercourses during elevated flows will be protected from acutely toxic conditions.

b. *Designated use segments.* These are water bodies which maintain flow throughout the year, or contain sufficient pooled areas during intermittent flow periods to maintain a viable aquatic community of significance.

Designated use waters are to be protected for all uses of general use segments in addition to the specific uses assigned. Designated use segments include:

(1) Primary contact recreation (Class "A"). Waters in which recreational or other uses may result in prolonged and direct contact with the water, involving considerable risk of ingesting water in quantities sufficient to pose a health hazard. Such activities would include, but not be limited to, swimming, diving, water skiing, and water contact recreational canoeing.

(2) Cold water aquatic life (Class "B(CW)"). Waters in which the temperature, flow, and other habitat characteristics are suitable for the maintenance of a wide variety of cold water species, including nonreproducing populations of trout and associated aquatic communities.

(3) High quality water (Class "HQ"). Waters with exceptionally better quality than the levels specified in Tables 1, 2 and 3 and with exceptional recreational and ecological importance. Special protection is warranted to maintain the unusual, unique or outstanding physical, chemical, or biological characteristics which these waters possess.

(4) High quality resource water (Class "HQR"). Waters of substantial recreational or ecological significance which possess unusual, outstanding or unique physical, chemical, or biological characteristics which enhance the beneficial uses and warrant special protection.

(5) Significant resource warm water (Class "B(WW)"). Waters in which temperature, flow and other habitat characteristics are suitable for the maintenance of a wide variety of reproducing populations of warm water fish and associated aquatic communities, including sensitive species.

(6) Limited resource warm water (Class "B(LR)"). Waters in which flow or other physical characteristics limit the ability of the water body to maintain a balanced warm water community. Such waters support only populations composed of species able to survive and reproduce in a wide range of physical and chemical conditions, and are not generally harvested for human consumption.

(7) Lakes and wetlands (Class "B(LW)"). These are artificial and natural impoundments with hydraulic retention times and other physical and chemical characteristics suitable to maintain a balanced community normally associated with lake-like conditions.

(8) Drinking water supply (Class "C"). Waters which are used as a raw water source of potable water supply.

61.3(2) General water quality criteria. The following criteria are applicable to all surface waters including general use and designated use waters, at all places and at all times to protect livestock and wildlife watering, aquatic life, noncontact recreation, crop irrigation, and industrial, domestic, agricultural and other incidental water withdrawal uses not protected by the specific numerical criteria of subrule 61.3(3).

a. Such waters shall be free from substances attributable to point source wastewater discharges that will settle to form sludge deposits.

b. Such waters shall be free from floating debris, oil, grease, scum and other floating materials attributable to wastewater discharges or agricultural practices in amounts sufficient to create a nuisance.

c. Such waters shall be free from materials attributable to wastewater discharges or agricultural practices producing objectionable color, odor or other aesthetically objectionable conditions.

d. Such waters shall be free from substances attributable to wastewater discharges or agricultural practices in concentrations or combinations which are acutely toxic to human, animal, or plant life.

e. Such waters shall be free from substances, attributable to wastewater discharges or agricultural practices, in quantities which would produce undesirable or nuisance aquatic life.

f. The turbidity of the receiving water shall not be increased by more than 25 Nephelometric turbidity units by any point source discharge.

g. Total dissolved solids shall not exceed 750 mg/l in any lake or impoundment or in any stream with a flow rate equal to or greater than three times the flow rate of upstream point source discharges.

h. Water which enters a sinkhole or losing stream segment shall not exceed a fecal coliform content of 200 organisms/100 ml, except when the waters are materially affected by surface runoff; but in no case shall fecal coliform levels downstream from an existing discharge which may contain pathogens to humans be more than 200 organisms/100 ml higher than the background level upstream from the discharge. No new wastewater discharges will be allowed on watercourses which directly or indirectly enter sinkholes or losing stream segments.

61.3(3) Specific water quality criteria.

a. *Class "A" waters.* Waters which are designated as Class "A" in subrule 61.3(5) are to be protected for primary contact recreation. The general criteria of subrule 61.3(2) and the following specific criteria apply to all Class "A" waters.

(1) From April 1 through October 31, the fecal coliform content shall not exceed 200 organisms/100 ml, except when the waters are materially affected by surface runoff; but in no case shall fecal coliform levels downstream from a discharge which may contain pathogens to humans be more than 200 organisms/100 ml higher than the background level upstream from the discharge.

(2) The pH shall not be less than 6.5 nor greater than 9.0. The maximum change permitted as a result of a waste discharge shall not exceed 0.5 pH units.

b. Class "B" waters. All waters which are designated as Class B(CW), B(WW), B(LR), or B(LW) are to be protected for wildlife, fish, aquatic and semiaquatic life, and secondary contact water uses. The following criteria shall apply to all Class "B" waters designated in subrule 61.3(5).

(1) Dissolved oxygen. Dissolved oxygen shall not be less than the values shown in Table 2 of this subrule.

(2) pH. The pH shall not be less than 6.5 nor greater than 9.0. The maximum change permitted as a result of a waste discharge shall not exceed 0.5 pH units.

(3) General chemical constituents. The specific numerical criteria shown in Tables 1, 2, and 3 of this subrule apply to all waters designated in subrule 61.3(5). The sole determinant of compliance with these criteria will be established by the department on a case-by-case basis. Effluent monitoring or instream monitoring, or both, will be the required approach to determine compliance.

1. The acute criteria represent the level of protection necessary to prevent acute toxicity to aquatic life. Instream concentrations above the acute criteria will be allowed only within the boundaries of the zone of initial dilution.

2. The chronic criteria represent the level of protection necessary to prevent chronic toxicity to aquatic life. Excursions above the chronic criteria will be allowed only inside of mixing zones or only for short-term periods outside of mixing zones; however, these excursions cannot exceed the acute criteria shown in Tables 1 and 3. The chronic criteria will be met as short-term average conditions at all times the flow equals or exceeds either the design flows noted in subrule 61.2(5) or any site-specific low flow established under the provisions of subrule 61.2(5).

3. The human health criteria represent the level of protection necessary, in the case of noncarcinogens, to prevent adverse health effects in humans, and in the case of carcinogens, to prevent a level of incremental cancer risk not exceeding 1 in 100,000. Instream concentrations in excess of the human health criteria will be allowed only within the boundaries of the mixing zone.

(4) The waters shall contain no substances in concentrations which will make fish or shellfish inedible due to undesirable tastes or cause a hazard to humans after consumption.

(5) Temperature.

1. No heat shall be added to interior streams or the Big Sioux River that would cause an increase of more than 3°C. The rate of temperature change shall not exceed 1°C per hour. In no case shall heat be added in excess of that amount that would raise the stream temperature above 32°C.

2. No heat shall be added to streams designated as cold water fisheries that would cause an increase of more than 2°C. The rate of temperature change shall not exceed 1°C per hour. In no case shall heat be added in excess of that amount that would raise the stream temperature above 20°C.

3. No heat shall be added to lakes and reservoirs that would cause an increase of more than 2°C. The rate of temperature change shall not exceed 1°C per hour. In no case shall heat be added in excess of that amount that would raise the temperature of the lake or reservoirs above 32°C.

4. No heat shall be added to the Missouri River that would cause an increase of more than 3°C. The rate of temperature change shall not exceed 1°C per hour. In no case shall heat be added that would raise the stream temperature above 32°C.

5. No heat shall be added to the Mississippi River that would cause an increase of more than 3°C. The rate of temperature change shall not exceed 1°C per hour. In addition, the water temperature at representative locations in the Mississippi River shall not exceed the maximum limits in the table below during more than 1 percent of the hours in the 12-month period ending with any month. Moreover, at no time shall the water temperature at such locations exceed the maximum limits in the table below by more than 2°C.

Zone II—Iowa-Minnesota state line to the northern Illinois border (Mile Point 1534.6).

Zone III—Northern Illinois border (Mile Point 1534.6) to Iowa-Missouri state line.

Month	Zone II	Zone III
January	4°C	7°C
February	4°C	7°C
March	12°C	14°C
April	18°C	20°C
May	24°C	26°C
June	29°C	29°C
July	29°C	30°C
August	29°C	30°C
September	28°C	29°C
October	23°C	24°C
November	14°C	18°C
December	9°C	11°C

(6) Early life stage for each use designation. The following seasons will be used in applying the early life stage present chronic criteria noted in Table 3b, “Chronic Criterion for Ammonia in Iowa Streams - Early Life Stages Present.”

1. For all Class B(CW) waters, the early life stage will be year-round.
2. For all Class B(WW) significant resource waters, the early life stage will begin in March and last through September except the following:
 - For the following, the early life stage will begin in February and last through September:
 - The entire length of the Mississippi and Missouri Rivers,
 - The lower reach of the Des Moines River south of the Ottumwa dam, and
 - The lower reach of the Iowa River below the Cedar River.
 - For the following, the early life stage will begin in April and last through September:
 - All Class B(WW) waters in the Southern Iowa River Basin,
 - All of the Class B(WW) reach of the Skunk River, the North Skunk River and the South Skunk River south of Indian Creek (Jasper County), and the Class B(WW) tributaries to these reaches, and
 - The entire Class B(WW) reach of the English River.
3. For all Class B(LR) waters, the early life stage will begin in April and last through September.
4. For all Class B(LW) lake and wetland waters, the early life stage will begin in March and last through September except for the Class B(LW) waters in the southern two tiers of Iowa counties which will have the early life stage of April through September.

c. *Class "C" waters.* Waters which are designated as Class "C" are to be protected as a raw water source of potable water supply. The following criteria shall apply to all Class "C" waters designated in subrule 61.3(5).

(1) Radioactive substances.

1. The combined radium-226 and radium-228 shall not exceed 5 picocuries per liter at the point of withdrawal.

2. Gross alpha particle activity (including radium-226 but excluding radon and uranium) shall not exceed 15 picocuries per liter at the point of withdrawal.

3. The average annual concentration at the point of withdrawal of beta particle and photon radioactivity from man-made radionuclides other than tritium and strontium-90 shall not produce an annual dose equivalent to the total body or any internal organ greater than 4 millirem/year.

4. The average annual concentration of tritium shall not exceed 20,000 picocuries per liter at the point of withdrawal; the average annual concentration of strontium-90 shall not exceed 8 picocuries per liter at the point of withdrawal.

(2) All substances toxic or detrimental to humans or detrimental to treatment process shall be limited to nontoxic or nondetrimental concentrations in the surface water.

(3) The pH shall not be less than 6.5 nor greater than 9.0.

TABLE 1. Criteria for Chemical Constituents

(all values as micrograms per liter unless noted otherwise)

Human health criteria for carcinogenic parameters noted below were based on the prevention of an incremental cancer risk of 1 in 100,000. For parameters not having a noted human health criterion, the U.S. Environmental Protection Agency has not developed final national human health guideline values. For noncarcinogenic parameters, the recommended EPA criterion was selected. For Class C waters, the EPA criteria for fish and water consumption were selected using the same considerations for carcinogenic and noncarcinogenic parameters as noted above. For Class C waters for which no EPA human health criteria were available, the EPA MCL value was selected.

Parameter		Use Designations				
		B(CW)	B(WW)	B(LR)	B(LW)	C
Alachlor	MCL	—	—	—	—	2
Aluminum	Chronic	87	388	773	748	—
	Acute	1106	4539	9035	983	—
Antimony	Human Health + — F & W	—	—	—	—	14
Arsenic (III)	Chronic	200	200	1000	200	—
	Acute	360	360	1800	360	—
	Human Health — Fish	50	50	—	50	—
	Human Health — F & W	—	—	—	—	.18
Asbestos	Human Health — F & W	—	—	—	—	7 ^(a)
Atrazine	MCL	—	—	—	—	3

Parameter		Use Designations				
		B(CW)	B(WW)	B(LR)	B(LW)	C
Barium	Human Health + — F & W	—	—	—	—	1000
Benzene	Human Health — F & W	—	—	—	—	12
	Human Health — Fish	712.8	712.8	—	712.8	—
Benzo(a)Pyrene	Human Health — F & W	—	—	—	—	.044
Beryllium	MCL	—	—	—	—	4
Bromoform	Human Health — F & W	—	—	—	—	43
	Human Health — Fish	3600	3600	—	3600	—
Cadmium	Chronic	1	15	25	1	—
	Acute	4	75	100	4	—
	Human Health + — Fish	168	168	—	168	—
	MCL	—	—	—	—	5
Carbofuran	MCL	—	—	—	—	40
Carbon Tetrachloride	Human Health — F & W	—	—	—	—	2.5
	Human Health — Fish	44.2	44.2	—	44.2	—
Chlordane	Chronic	.004	.004	.15	.004	—
	Acute	2.5	2.5	2.5	2.5	—
	Human Health — Fish	.006	.006	—	.006	—
	Human Health — F & W	—	—	—	—	.021
Chloride	MCL	—	—	—	—	250*
Chlorobenzene	Human Health + — Fish	21*	21*	—	21*	—
	MCL	—	—	—	—	100
Chlorodibromomethane	Human Health — F & W	—	—	—	—	4.1
	Human Health — Fish	340	340	—	340	—
Chloroform	Human Health — F & W	—	—	—	—	57
	Human Health — Fish	4700	4700	—	4700	—
Chloropyrifos	Chronic	.041	.041	.041	.041	—
	Acute	.083	.083	.083	.083	—
Chromium (VI)	Chronic	40	40	200	10	—
	Acute	60	60	300	15	—
	Human Health + — Fish	3365	3365	—	3365	—
	MCL	—	—	—	—	100

Parameter		Use Designations				
		B(CW)	B(WW)	B(LR)	B(LW)	C
Copper	Chronic	20	35	55	10	—
	Acute	30	60	90	20	—
	Human Health + — Fish	1000	1000	—	1000	—
	Human Health + — F & W	—	—	—	—	1300
Cyanide	Chronic	5	10	10	10	—
	Acute	20	45	45	45	—
	Human Health + — F & W	—	—	—	—	700
Dalapon	MCL	—	—	—	—	200
Dibromochloropropane	MCL	—	—	—	—	.2
4,4-DDT + +	Chronic	.001	.001	.029	.001	—
	Acute	.9	.8	.95	.55	—
	Human Health — Fish	.0059	.0059	—	.0059	—
	Human Health — F & W	—	—	—	—	.0059
o-Dichlorobenzene	MCL	—	—	—	—	600
para-Dichlorobenzene	Human Health + — F & W	—	—	—	—	400
	Human Health + — Fish	2.6*	2.6*	—	2.6*	—
3,3-Dichlorobenzidine	Human Health — Fish	.2	.2	—	.2	—
	Human Health — F & W	—	—	—	—	.4
Dichlorobromomethane	Human Health — F & W	—	—	—	—	5.6
	Human Health — Fish	460	460	—	460	—
1,2-Dichloroethane	Human Health — F & W	—	—	—	—	3.8
	Human Health — Fish	986	986	—	986	—
1,1-Dichloroethylene	Human Health — F & W	—	—	—	—	.57
	Human Health — Fish	32	32	—	32	—
cis-1,2-Dichloroethylene	MCL	—	—	—	—	70
trans-1,2-Dichloroethylene	Human Health + — F & W	—	—	—	—	700
Dichloromethane	MCL	—	—	—	—	5
1,2-Dichloropropane	Human Health — F & W	—	—	—	—	5.2
Di(2-ethylhexyl)adipate	MCL	—	—	—	—	400
Di(2-ethylhexyl)phthalate	Human Health — F & W	—	—	—	—	18

Parameter		Use Designations				
		B(CW)	B(WW)	B(LR)	B(LW)	C
Dieldrin	Chronic	.056	.056	.056	.056	—
	Acute	.24	.24	.24	.24	—
	Human Health — Fish	.0014	.0014	—	.0014	—
	Human Health — F & W	—	—	—	—	.0014
Dinoseb	MCL	—	—	—	—	7
2,3,7,8-TCDD (Dioxin)	Human Health — F & W	—	—	—	—	1.3 ⁻⁷
	Human Health — Fish	.00014†	.00014†	—	.00014†	—
Diquat	MCL	—	—	—	—	20
2,4-D	Human Health + — F & W	—	—	—	—	100
Endosulfan ^(b)	Chronic	.056	.15	.15	.15	—
	Acute	.11	.3	.3	.3	—
	Human Health + — Fish	240	240	—	240	—
	Human Health + — F & W	—	—	—	—	110
Endothall	MCL	—	—	—	—	100
Endrin	Chronic	.05	.036	.036	.036	—
	Acute	.12	.086	.086	.086	—
	Human Health + — Fish	.81	.81	—	.81	—
	Human Health + — F & W	—	—	—	—	.76
Ethylbenzene	Human Health + — F & W	—	—	—	—	3100
Ethylene dibromide	MCL	—	—	—	—	.05
Fluoride	MCL	—	—	—	—	4000
Glyphosate	MCL	—	—	—	—	700
Heptachlor	Chronic	.0038	.0038	.01	.0038	—
	Acute	.38	.38	.38	.38	—
	Human Health — Fish	.002	.002	—	.002	—
	Human Health — F & W	—	—	—	—	.0021
Heptachlor epoxide	Human Health — F & W	—	—	—	—	.001
Hexachlorobenzene	Human Health — F & W	—	—	—	—	.0075

Parameter		Use Designations				
		B(CW)	B(WW)	B(LR)	B(LW)	C
γ-Hexachlorocyclohexane (Lindane)	Chronic	N/A	N/A	N/A	N/A	—
	Acute	.95	.95	.95	.95	—
	Human Health — Fish	.63	.63	—	.63	—
	Human Health — F & W	—	—	—	—	.19
Hexachlorocyclopentadiene	Human Health — F & W	—	—	—	—	240
Lead	Chronic	3	30	80	3	—
	Acute	80	200	750	80	—
	MCL	—	—	—	—	50
Mercury (II)	Chronic	3.5	2.1	3.7	.91	—
	Acute	6.5	4.0	6.9	1.7	—
	Human Health + — Fish	.15	.15	—	.15	—
	Human Health + — F & W	—	—	—	—	.05
Methoxychlor	Human health + — F & W	—	—	—	—	100
Nickel	Chronic	350	650	750	150	—
	Acute	3250	5800	7000	1400	—
	Human Health + — Fish	4584	4584	—	4584	—
	Human Health + — F & W	—	—	—	—	610
Nitrate as N	MCL	—	—	—	—	10*
Nitrate + Nitrite as N	MCL	—	—	—	—	10*
Nitrite as N	MCL	—	—	—	—	1*
Oxamyl (Vydate)	MCL	—	—	—	—	200
Parathion	Chronic	.013	.013	.013	.013	—
	Acute	.065	.065	.065	.065	—
Pentachlorophenol (PCP)	Chronic	(d)	(d)	(d)	(d)	—
	Acute	(d)	(d)	(d)	(d)	—
	Human Health — Fish	82	82	—	82	—
	Human Health — F & W	—	—	—	—	.28
Picloram	MCL	—	—	—	—	500

Parameter		Use Designations				
		B(CW)	B(WW)	B(LR)	B(LW)	C
Polychlorinated Biphenyls (PCBs)	Chronic	.014	.014	1	.014	—
	Acute	2	2	2	2	—
	Human Health — Fish	.0004	.0004	—	.0004	—
	Human Health — F & W	—	—	—	—	.0017
Polynuclear Aromatic Hydrocarbons (PAHs)**	Chronic	.03	.03	3	.03	—
	Acute	30	30	30	30	—
	Human Health — Fish	.3	.3	—	.3	—
	Human Health — F&W	—	—	—	—	.044
Phenols	Chronic	50	50	50	50	—
	Acute	1000	2500	2500	1000	—
	Human Health + — Fish	300	300	—	300	—
	Human Health + — F & W	—	—	—	—	21*
Selenium (VI)	Chronic	10	125	125	70	—
	Acute	15	175	175	100	—
	Human Health + — F & W	—	—	—	—	170
Silver	Chronic	N/A	N/A	N/A	N/A	—
	Acute	30	100	100	4	—
	MCL	—	—	—	—	50
2,4,5-TP (Silvex)	MCL	—	—	—	—	10
Simazine	MCL	—	—	—	—	4
Styrene	MCL	—	—	—	—	100
Tetracholorethylene	Human Health — F & W	—	—	—	—	8
Thallium	Human Health + — F & W	—	—	—	—	1.7
Toluene	Chronic	50	50	150	50	—
	Acute	2500	2500	7500	2500	—
	Human Health + — Fish	300*	300*	—	300*	—
	Human Health + — F & W	—	—	—	—	6800
Total Residual Chlorine (TRC)	Chronic	10	20	25	10	—
	Acute	35	35	40	20	—
Toxaphene	Chronic	.037	.037	.037	.037	—
	Acute	.73	.73	.73	.73	—
	Human Health — Fish	.0075	.0075	—	.0075	—
	Human Health — F & W	—	—	—	—	.0073

Parameter		Use Designations				
		B(CW)	B(WW)	B(LR)	B(LW)	C
1,2,4-Trichlorobenzene	MCL	—	—	—	—	70
1,1,1-Trichloroethane	MCL	—	—	—	—	200
	Human Health + — Fish	173*	173*	—	173*	—
1,1,2-Trichloroethane	Human Health — F & W	—	—	—	—	6
Trichloroethylene (TCE)	Chronic	80	80	80	80	—
	Acute	4000	4000	4000	4000	—
	Human Health — Fish	807	807	—	807	—
	Human Health — F & W	—	—	—	—	27
Trihalomethanes (total) ^(c)	MCL	—	—	—	—	80
Vinyl Chloride	Human Health — F & W	—	—	—	—	20
	Human Health — Fish	5250	5250	—	5250	—
Xylenes (Total)	MCL	—	—	—	—	10*
Zinc	Chronic	200	450	2000	100	—
	Acute	220	500	2200	110	—
	Human Health + — Fish	5000	5000	—	5000	—
	Human Health + — F & W	—	—	—	—	9100

* units expressed as milligrams/liter

** to include the sum of known and suspected carcinogenic PAHs

† expressed as nanograms/liter

+ represents the noncarcinogenic human health parameters

++ The concentrations of 4,4-DDT or its metabolites; 4,4-DDE and 4,4-DDD, individually shall not exceed the human health criteria.

(a) units expressed as million fibers/liter (longer than 10 micrometers)

(b) includes alpha-endosulfan, beta-endosulfan, and endosulfan sulfate in combination or as individually measured

(c) The sum of the four trihalomethanes (bromoform [tribromomethane], chlorodibromomethane, chloroform [trichloromethane], and dichlorobromomethane) may not exceed the MCL.

(d) Class B numerical criteria are for pentachlorophenol a function of pH using the equation: Criterion ($\mu\text{g/l}$) = $e^{[1.005(\text{pH}) - x]}$, where $e = 2.71828$ and x varies according to the following table.

	B(CW)	B(WW)	B(LR)	B(LW)
Acute	3.869	4.869	4.869	4.869
Chronic	4.134	5.134	5.134	5.134

TABLE 2. Criteria for Dissolved Oxygen

(all values expressed in milligrams per liter as N)

	B(CW)	B(WW)	B(LR)	B(LW)
Minimum value for at least 16 hours of every 24-hour period	7.0	5.0	5.0	5.0*
Minimum value at any time during every 24-hour period	5.0	5.0	4.0	5.0*

applies only to the upper layer of stratification in lakes*TABLE 3a. Acute Criterion for Ammonia in Iowa Streams**

Acute Criterion, mg/l as N (or Criterion Maximum Concentration, CMC)		
pH	Class B(WW), B(LR) & B(LW)	Class B(CW) Cold Water
6.5	48.8	32.6
6.6	46.8	31.3
6.7	44.6	29.8
6.8	42.0	28.0
6.9	39.1	26.1
7.0	36.1	24.1
7.1	32.8	21.9
7.2	29.5	19.7
7.3	26.2	17.5
7.4	23.0	15.3
7.5	19.9	13.3
7.6	17.0	11.4
7.7	14.4	9.64
7.8	12.1	8.11
7.9	10.1	6.77
8.0	8.40	5.62
8.1	6.95	4.64
8.2	5.72	3.83
8.3	4.71	3.15
8.4	3.88	2.59
8.5	3.20	2.14
8.6	2.65	1.77
8.7	2.20	1.47
8.8	1.84	1.23
8.9	1.56	1.04
9.0	1.32	0.885

TABLE 3b. Chronic Criterion for Ammonia in Iowa Streams - Early Life Stages Present

Chronic Criterion - Early Life Stages Present, mg/l as N (or Criterion Continuous Concentration, CCC)										
pH	Temperature, °C									
	0	14	16	18	20	22	24	26	28	30
6.5	6.67	6.67	6.06	5.33	4.68	4.12	3.62	3.18	2.80	2.46
6.6	6.57	6.57	5.97	5.25	4.61	4.05	3.56	3.13	2.75	2.42
6.7	6.44	6.44	5.86	5.15	4.52	3.98	3.50	3.07	2.70	2.37
6.8	6.29	6.29	5.72	5.03	4.42	3.89	3.42	3.00	2.64	2.32
6.9	6.12	6.12	5.56	4.89	4.30	3.78	3.32	2.92	2.57	2.25
7.0	5.91	5.91	5.37	4.72	4.15	3.65	3.21	2.82	2.48	2.18
7.1	5.67	5.67	5.15	4.53	3.98	3.50	3.08	2.70	2.38	2.09
7.2	5.39	5.39	4.90	4.31	3.78	3.33	2.92	2.57	2.26	1.99
7.3	5.08	5.08	4.61	4.06	3.57	3.13	2.76	2.42	2.13	1.87
7.4	4.73	4.73	4.30	3.78	3.32	2.92	2.57	2.26	1.98	1.74
7.5	4.36	4.36	3.97	3.49	3.06	2.69	2.37	2.08	1.83	1.61
7.6	3.98	3.98	3.61	3.18	2.79	2.45	2.16	1.90	1.67	1.47
7.7	3.58	3.58	3.25	2.86	2.51	2.21	1.94	1.71	1.50	1.32
7.8	3.18	3.18	2.89	2.54	2.23	1.96	1.73	1.52	1.33	1.17
7.9	2.8	2.8	2.54	2.24	1.96	1.73	1.52	1.33	1.17	1.03
8.0	2.43	2.43	2.21	1.94	1.71	1.50	1.32	1.16	1.02	0.897
8.1	2.10	2.10	1.91	1.68	1.47	1.29	1.14	1.00	0.879	0.773
8.2	1.79	1.79	1.63	1.43	1.26	1.11	0.973	0.855	0.752	0.661
8.3	1.52	1.52	1.39	1.22	1.07	0.941	0.827	0.727	0.639	0.562
8.4	1.29	1.29	1.17	1.03	0.906	0.796	0.700	0.615	0.541	0.475
8.5	1.09	1.09	0.990	0.870	0.765	0.672	0.591	0.520	0.457	0.401
8.6	0.920	0.920	0.836	0.735	0.646	0.568	0.499	0.439	0.386	0.339
8.7	0.778	0.778	0.707	0.622	0.547	0.480	0.422	0.371	0.326	0.287
8.8	0.661	0.661	0.601	0.528	0.464	0.408	0.359	0.315	0.277	0.244
8.9	0.565	0.565	0.513	0.451	0.397	0.349	0.306	0.269	0.237	0.208
9.0	0.486	0.486	0.442	0.389	0.342	0.300	0.264	0.232	0.204	0.179

TABLE 3c. Chronic Criterion for Ammonia in Iowa Streams - Early Life Stages Absent

Chronic Criterion - Early Life Stages Absent, mg/l as N (or Criterion Continuous Concentration, CCC)										
pH	Temperature, °C									
	0-7	8	9	10	11	12	13	14	15*	16*
6.5	10.8	10.1	9.51	8.92	8.36	7.84	7.35	6.89	6.46	6.06
6.6	10.7	9.99	9.37	8.79	8.24	7.72	7.24	6.79	6.36	5.97
6.7	10.5	9.81	9.20	8.62	8.08	7.58	7.11	6.66	6.25	5.86
6.8	10.2	9.58	8.98	8.42	7.90	7.40	6.94	6.51	6.10	5.72
6.9	9.93	9.31	8.73	8.19	7.68	7.20	6.75	6.33	5.93	5.56
7.0	9.60	9.00	8.43	7.91	7.41	6.95	6.52	6.11	5.73	5.37
7.1	9.20	8.63	8.09	7.58	7.11	6.67	6.25	5.86	5.49	5.15
7.2	8.75	8.20	7.69	7.21	6.76	6.34	5.94	5.57	5.22	4.90
7.3	8.24	7.73	7.25	6.79	6.37	5.97	5.60	5.25	4.92	4.61
7.4	7.69	7.21	6.76	6.33	5.94	5.57	5.22	4.89	4.59	4.30
7.5	7.09	6.64	6.23	5.84	5.48	5.13	4.81	4.51	4.23	3.97
7.6	6.46	6.05	5.67	5.32	4.99	4.68	4.38	4.11	3.85	3.61
7.7	5.81	5.45	5.11	4.79	4.49	4.21	3.95	3.70	3.47	3.25
7.8	5.17	4.84	4.54	4.26	3.99	3.74	3.51	3.29	3.09	2.89
7.9	4.54	4.26	3.99	3.74	3.51	3.29	3.09	2.89	2.71	2.54
8.0	3.95	3.70	3.47	3.26	3.05	2.86	2.68	2.52	2.36	2.21
8.1	3.41	3.19	2.99	2.81	2.63	2.47	2.31	2.17	2.03	1.91
8.2	2.91	2.73	2.56	2.40	2.25	2.11	1.98	1.85	1.74	1.63
8.3	2.47	2.32	2.18	2.04	1.91	1.79	1.68	1.58	1.48	1.39
8.4	2.09	1.96	1.84	1.73	1.62	1.52	1.42	1.33	1.25	1.17
8.5	1.77	1.66	1.55	1.46	1.37	1.28	1.20	1.13	1.06	0.99
8.6	1.49	1.40	1.31	1.23	1.15	1.08	1.01	0.951	0.892	0.836
8.7	1.26	1.18	1.11	1.04	0.976	0.915	0.858	0.805	0.754	0.707
8.8	1.07	1.01	0.944	0.885	0.829	0.778	0.729	0.684	0.641	0.601
8.9	0.917	0.860	0.806	0.756	0.709	0.664	0.623	0.584	0.548	0.513
9.0	0.790	0.740	0.694	0.651	0.610	0.572	0.536	0.503	0.471	0.442

*At 15°C and above, the criterion for fish early life stage (ELS) absent is the same as the criterion for fish ELS present.

61.3(4) *Class "C" waters.* Rescinded IAB 4/18/90, effective 5/23/90.

61.3(5) *Surface water classification.*

a. Water use designation abbreviations.

(1) "A" means primary body contact recreation.

(2) "B" means wildlife, aquatic life, and secondary body contact uses. "WW" means significant resource warm water, "LR" means limited resource warm water, "LW" means lakes and wetlands warm water, "CW" means cold water.

(3) "C" means raw water source of potable water supply.

b. Key to the order of streams.

(1) Streams are listed in downstream to upstream sequence within a basin.

(2) Major streams (1st order) are described in entirety from downstream end to upstream end, before listing their tributary (2nd order) streams, or the next (major) stream.

(3) Tributary (2nd order) streams (if any) are then listed in downstream to upstream sequence, and each is described in entirety before listing its tributaries (3rd order), or before listing the next upstream 2nd order tributary.

(4) When a stream and all its tributaries are described in entirety, the next upstream equal order stream is then listed and described.

(5) The scheme is repeated through 3rd, 4th and 5th orders, as necessary.

(6) The relationship of tributaries is indicated in the list by the spacing from the left margin. Names of tributaries are indented two spaces from the name of the stream to which they are tributary, and equal order streams fall one below the other on the same margin.

EXAMPLE:

(I) River	(I) and (II) are first order streams and (II) is upstream
(A) River	from (I). (A), (B) and (C) are tributaries of (I). (B) is
(B) River	upstream from (A), and (C) is upstream from (B). (1),
(1) Creek	(2) and (3) are tributaries of (B). (2) is upstream from
(2) Creek	(1), and (3) is upstream from (2). (a) is a tributary of (2).
(a) Creek	
(3) Creek	
(C) River	
(II) River	

(7) Stream names are in accordance with "Drainage Areas of Iowa Streams," U.S. Geological Survey, March 1974, except that locally known names are used for streams not listed therein.

c. Stream abbreviations.

(1) "R" means river.

(2) "Cr." means creek.

(3) "Br." means branch.

(4) "D.D." means drainage ditch.

(5) "E," "W," "N," and "S" are compass directions.

(6) "Fk." means fork.

(7) "aka" means also known as.

d. Location abbreviations.

(1) "R" means range.

(2) "T" means township.

(3) "S" means section.

(4) "Rd." means road.

(5) "Hwy." means highway.

(6) "Co." means county.

(7) "St." means street.

e. Iowa water quality standards water use designations.

WESTERN IOWA RIVER BASINS

Western Iowa River Basins (Missouri, Big Sioux, and Little Sioux Rivers)

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for the Western Iowa River Basins. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Ashton Cr. - 39	Little Floyd R. - 74	Pickereel Run - 53
Bacon Cr. - 37	Little Maple R. - 34	Pierson Cr. - 38
Battle Cr. - 29	Little Ocheyedan R. - 55	Pigeon Cr. - 10
Beaver Cr. - 20	Little Rock R. - 84	Plum Cr. - 3
Big Cr. - 36	Little Sioux R. - 21	Prairie Cr. - 56
Big Muddy Cr. - 57	Little Sioux R. - 22	Rock Cr. - 41
Big Sioux R. - 76	Little Sioux R. - 23	Rock R. - 81
Boyer R. - 11	Little Sioux R. - 25	Rock R. - 82
Boyer R. - 12	Little Sioux R. - 24	Silver Cr. - 32
Broken Kettle Cr. - 77	Lost Island Outlet - 52	Silver Cr. - 42
Brooke Cr. - 48	Maple Cr. - 35	Sixmile Cr. - 80
Bull Run - 78	Maple R. - 26	Soldier R. - 16
Deep Cr. - 73	Maple R. -27	Soldier R. - 17
Dry Run - 59	Milford Cr. - 60	Stony Cr. - 54
Dugout Cr. - 62	Mill Cr. - 43	Unnamed Cr. - 83
East Boyer R. - 14	Mink Cr. - 71	Unnamed Cr. - 88
East Soldier R. - 19	Missouri R. - 1	Unnamed Cr. - 89
Elk Cr. - 31	Missouri R. - 2	Waterman Cr. - 46
Floyd R. - 68	Monona Harrison Co. Dite - 63	Waubonsie Cr. - 4
Floyd R. - 69	Montgomery Cr. - 51	West Branch Floyd R. - 70
Fox Run - 49	Moser Cr. - 9	West Fork Little Sioux R. - 61
Gray Cr. - 44	Mosquito Cr. - 6	West Fork Little Sioux R. - 64
Halfway Cr. - 33	Mosquito Cr. - 7	Whiskey Cr. - 66
Henry Cr. - 47	Mud Cr. - 65	Willow Cr. - 13
Indian Cr. - 79	Mud Cr. - 86	Willow Cr. - 40
Johns Cr. - 28	Ocheyedan R. - 58	Willow Cr. - 45
Jordan Cr. - 18	Odebolt Cr. - 30	Willow Cr. - 50
Kanaranzi Cr. - 87	Otter Cr. - 15	Willow Cr. - 72
Keg Cr. - 5	Otter Cr. - 85	Wolf Cr. - 67
Lake Manawa water intake - 8	Perry Cr. - 75	

WESTERN

MAJOR RIVER - MISSOURI R. AND ITS TRIBUTARIES

- MISSOURI R. AND ITS TRIBUTARIES
1. Missouri R.
Iowa-Missouri state line to confluence with the Big Sioux R.
 2. Missouri R.
City of Council Bluffs Water Works Intakes

PLUM CR. AND ITS TRIBUTARIES

3. Plum Cr.
Mouth (S6, T69N, R43W, Fremont Co.) to confluence with an unnamed tributary (S29, T70N, R42W, Fremont Co.)

A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
X	X						
					X		
		X					

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
WESTERN								
MAJOR RIVER - MISSOURI R. AND ITS TRIBUTARIES								
SOLDIER R. AND ITS TRIBUTARIES								
16.		X						
Soldier R. Mouth (Harrison Co.) to confluence with E. Soldier R.								
17.			X					
Soldier R. Confluence with East Soldier River (S34, T84N, R42W, Monona Co.) to confluence with Little Soldier Cr. (S24, T86N, R40W, Ida Co.)								
18.			X					
Jordan Cr. Mouth (S16, T82N, R43W, Monona Co.) to confluence with an unnamed tributary (SE 1/4, NE 1/4, S10, T83N, R43W, Monona Co.)								
19.			X					
East Soldier R. Mouth (S34, T84N, R42W, Monona Co.) to confluence with Emigrant Cr. (S23, T84N, R41W, Crawford Co.)								
20.			X					
Beaver Cr. Mouth (S1, T85N, R41W, Crawford Co.) to confluence with an unnamed tributary (NW 1/4, S9, T85N, R40W, Crawford Co.)								
LITTLE SIOUX R. AND ITS TRIBUTARIES								
21.		X						
Little Sioux R. Mouth (Harrison Co.) to Hwy. 3 in Cherokee (S26, T92N, R40W, Cherokee Co.)								
22.	X	X						X
Little Sioux R. Hwy. 3 in Cherokee (S26, T92N, R40W, Cherokee Co.) to Linn Grove Dam (Buena Vista Co.)								
23.		X						X
Little Sioux R. Linn Grove Dam (Buena Vista Co.) to Clay Co., S17, T96N, R36W (east corporate limit, Spencer)								
24.		X						
Little Sioux R. West Line, S17, T96N, R36W, Clay Co. to confluence with West Fork Little Sioux River (Dickinson Co.)								
25.			X					
Little Sioux R. Confluence with W. Fork Little Sioux R. (S7, T99N, R37W Dickinson Co.) to the Iowa-Minnesota state line								
26.		X						
Maple R. Mouth (S17, T83N, R44W, Monona Co.) to confluence with Silver Cr. (S13, T88N, R40W, Ida Co.)								
27.			X					
Maple R. Confluence with Silver Cr. (S13, T88N, R40W, Ida Co.) to confluence with Maple Cr. (S5, T91N, R39W, Cherokee Co.)								
28.			X					
Johns Cr. (aka Clear Cr.) Mouth (S24, T90N, R44W, Plymouth Co.) to confluence with Rathbun Cr. (S26, T91N, R44W, Plymouth Co.)								
29.			X					
Battle Cr. Mouth (S26, T87N, R41W, Ida Co.) to confluence with an unnamed tributary (SW 1/4, S24, T88N, R41W, Ida Co.)								
30.			X					
Odebolt Cr. Mouth (Ida Co.) to confluence with an unnamed tributary (S24, T87N, R39W, Ida Co.)								
31.			X					
Elk Cr. Mouth (S1, T87N, R40W, Ida Co.) to confluence with an unnamed tributary (W 1/2, S36, T88N, R39W, Ida Co.)								

WESTERN**MAJOR RIVER - MISSOURI R. AND ITS TRIBUTARIES
LITTLE SIOUX R. AND ITS TRIBUTARIES**

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Waterman Cr.								
46. Mouth (S26, T94N, R39W, O'Brien Co.) to confluence with Epping Cr. (S36, T97N, R40W, O'Brien Co.)			X					
Henry Cr.								
47. Mouth (S24, T94N, R39W, O'Brien Co.) to confluence with an unnamed tributary (S24, T94N, R39W, O'Brien Co.)			X					
Brooke Cr.								
48. Mouth (SW 1/4, S11, T93N, R38W, Buena Vista Co.) to confluence with an unnamed tributary (Center of S 1/2, S24, T92N, R38W, Buena Vista Co.)			X					
Fox Run								
49. Mouth (SW 1/4, S12, T93N, R38W, Buena Vista Co.) to confluence with an unnamed tributary (NE 1/4, S19, T93N, R37W, Buena Vista Co.)			X					
Willow Cr.								
50. Mouth (S17, T94N, R36W, Clay Co.) to confluence with an unnamed tributary (NW 1/4, S31, T95N, R37W, Clay Co.)			X					
Montgomery Cr.								
51. Mouth (S3, T94N, R36W, Clay Co.) to confluence with an unnamed tributary (SE 1/4, S11, T94N, R36W, Clay Co.)			X					
Lost Island Outlet								
52. Mouth (Clay Co.) to confluence with Pickerel Run S17, T96N, R36W, Clay Co.)			X					
Pickerel Run								
53. Mouth (Clay Co.) to confluence with an unnamed tributary (S31, T97N, R35W, Clay Co.)			X					
Stony Cr.								
54. Mouth (Clay Co.) to confluence with an unnamed tributary (S27, T98N, R38W, Dickinson Co.)			X					
Little Ocheyedon R.								
55. Mouth (Osceola Co.) to confluence with an unnamed tributary (NW 1/4, S4, T89N, R40W, Osceola Co.)			X					
Prairie Cr.								
56. Mouth (S26, T96N, R36W, Clay Co.) to confluence with an unnamed tributary (S33, T96N, R36W, Clay Co.)			X					
Big Muddy Cr.								
57. Mouth (S15, T96N, R36W, Clay Co.) to confluence with unnamed tributary (S17, T98N, R35W, Clay Co.)			X					
Ocheyedon R.								
58. Mouth (Clay Co.) to the Iowa-Minnesota state line			X					
Dry Run								
59. Mouth (Osceola Co.) to confluence with an unnamed tributary (S17, T99N, R39W, Osceola Co.)			X					
Milford Cr. (aka Mill Cr.)								
60. Mouth (Dickinson Co.) to confluence with an unnamed tributary (S18, T98N, R36W, Dickinson Co.)			X					

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
WESTERN								
MAJOR RIVER - MISSOURI R. AND ITS TRIBUTARIES								
LITTLE SIOUX R. AND ITS TRIBUTARIES								
West Fork Little Sioux R.								
61.			X					
Mouth (Dickinson Co.) to the Iowa-Minnesota state line								
Dugout Cr.								
62.			X					
Mouth (Dickinson Co.) to confluence with the first upstream unnamed tributary (S15, T99N, R38W, Dickinson Co.)								
MONONA-HARRISON DITCH AND ITS TRIBUTARIES								
Monona Harrison Co. Ditch								
63.		X						
Mouth (S21, T81N, R45W, Harrison Co.) to confluence with W. Fk. L. Sioux River (Ditch) (S12, T84N, R45W, Monona Co.)								
West Fork Little Sioux R.								
64.			X					
Mouth (S12, T84N, R45W, Monona Co.) to confluence with an unnamed tributary (S3, T91N, R42W, Cherokee Co.)								
Mud Cr.								
65.			X					
Mouth (S31, T89N, R44W, Woodbury Co.) to confluence with an unnamed tributary (S6, T89N, R44W, Woodbury Co.)								
Whiskey Cr.								
66.			X					
Mouth (Plymouth Co.) to confluence with an unnamed tributary (NW 1/4, S2, T91N, R43W, Plymouth Co.)								
Wolf Cr. (aka including Haitz Ditch)								
67.			X					
Mouth (S12, T84N, R45W, Monona Co.) to confluence with East Fork Wolf Cr. (S30, T87N, R43W, Woodbury Co.)								
FLOYD R. AND ITS TRIBUTARIES								
Floyd R.								
68.		X						
Mouth (Woodbury Co.) to confluence with W. Br. Floyd R. (Plymouth Co.)								
Floyd R.								
69.			X					
Confluence with W. Br. Floyd R. (Plymouth Co.) to confluence with North Fork (S30, T97N, R41W, O'Brien Co.)								
West Branch Floyd R.								
70.			X					
Mouth (Plymouth Co.) to confluence with an unnamed tributary (NE 1/4, S18, T96N, R44W, Sioux Co.)								
Mink Cr.								
71.			X					
Mouth to confluence with an unnamed tributary (NE 1/4, S21, T93N, R46W, Plymouth Co.)								
Willow Cr.								
72.			X					
Mouth (Plymouth Co.) to confluence with an unnamed tributary (NE 1/4, S11, T93N, R44W, Plymouth Co.)								

WESTERN		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
MAJOR RIVER - MISSOURI R. AND ITS TRIBUTARIES									
FLOYD R. AND ITS TRIBUTARIES									
	Deep Cr.								
73.	Mouth (Plymouth Co.) to confluence with an unnamed tributary (NE 1/4, Sec. 35, T94N, R43W, Plymouth Co.)			X					
	Little Floyd R.								
74.	Mouth (Sioux Co.) to confluence with Lamkin Cr. (S8, T96N, R42W, O'Brien Co.)			X					
PERRY CR. AND ITS TRIBUTARIES									
	Perry Cr.								
75.	Mouth (S32, T89N, R47W, Woodbury Co.) to confluence with an unnamed tributary (S35, T91N, R47W, Plymouth Co.)			X					
BIG SIOUX R. AND ITS TRIBUTARIES									
	Big Sioux R.								
76.	Mouth (Woodbury Co.) to Iowa-Minnesota state line	X	X						
	Broken Kettle Cr.								
77.	Mouth (S9, T90N, R48W, Plymouth Co.) to confluence with an unnamed tributary (S19, T92N, R47W, Plymouth Co.)			X					
	Bull Run								
78.	Mouth (S25, T92N, R48W, Plymouth Co.) to confluence with an unnamed tributary (S29, T92N, R47W, Plymouth Co.)			X					
	Indian Cr.								
79.	Mouth (S9, T93N, R48W, Plymouth Co.) to confluence with an unnamed tributary (S33, T94N, R47W, Sioux Co.)			X					
	Sixmile Cr.								
80.	Mouth (S28, T94N, R48W, Sioux Co.) to confluence with an unnamed tributary (S19, T95N, R46W, Sioux Co.)			X					
	Rock R.								
81.	Mouth (Sioux Co.) to confluence with Kanaranzi Cr. (S28, T100N, R45W, Lyon Co.)		X						
	Rock R.								
82.	Confluence with Kanaranzi Cr. (Lyon Co.) to the Iowa-Minnesota state line			X					
	Unnamed Cr.								
83.	Mouth (S26, T97N, R47W, Sioux Co.) to confluence with an unnamed tributary (W 1/2, S14, T97N, R47W, Sioux Co.)			X					
	Little Rock R.								
84.	Mouth (Lyon Co.) to the Iowa-Minnesota state line			X					
	Otter Cr.								
85.	Mouth (Lyon Co.) to confluence with an unnamed tributary (S14, T99N, R42W, Osceola Co.)			X					
	Mud Cr.								
86.	Mouth (Lyon Co.) to the Iowa-Minnesota state line			X					
	Kanaranzi Cr.								
87.	Mouth (Lyon Co.) to the Iowa-Minnesota state line			X					

**WESTERN
MAJOR RIVER - MISSOURI R. AND ITS TRIBUTARIES
BIG SIOUX R. AND ITS TRIBUTARIES**

- Unnamed Cr.

88. Mouth (S5, T96N, R47W, Sioux Co.) to confluence
with an unnamed tributary (S29, T97N, R47W, Sioux
Co.)
- Unnamed Cr.

89. Mouth (S16, T98N, R48W, Lyon Co.) to confluence
with an unnamed tributary (S22, T98N, R48W, Lyon
Co.)

A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
		X					
		X					

SOUTHERN IOWA RIVER BASINS

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for the Southern Iowa River Basins. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Bluegrass Cr. - 29	Grand R. - 72	Sevenmile Cr. -38
Brush Cr. - 95	Grand R. - 72a	Shoal Cr. - 87
Brush Cr. - 110	Greybill Cr. - 12	Silver Cr. - 6
Brushy Cr. - 51	Honey Cr. - 54	Silver Cr. - 7
Camp Cr. - 24	Honey Cr. - 108	South Cr. - 85
Carter Cr. - 113	Indian Cr. - 9	South Fork Chariton R. - 100
Chariton R. - 88	Indian Cr. - 23	South Fox Cr. - 117
Chariton R. - 89	Jackson Cr. - 103	South Wyaconda R. - 114
Chariton R. - 90	Jim Cr. - 14	Squaw Cr. - 66
Chariton R. - 91	Jonathan Cr. - 81	Steel Cr. - 80
Chariton R. - 92	Jordan Cr. - 13	Tarkio R. - 31
Chariton R. - 93	Jordan Cr. - 102	Troublesome Cr. - 27
Cooper Cr. - 97	Little R. - 78	Turkey Cr. - 26
Crooked Cr. - 65	Little Walnut Cr. - 99	Turkey Cr. - 58
Davids Cr. - 28	Locust Cr. - 83	Twelvemile Cr. - 75
Dick Cr. - 107	Long Cr. - 74	Unnamed Cr. - 96
E. FK 102 R. - 52	Lotts Cr. - 70	Unnamed Cr. - 105
E. FK 102 R. - 53	Middle Fork 102 R. -48	W. Jackson Cr. - 104
E. Nishnabotna R. - 19	Middle Fork 102 R. -50	W. Nishnabotna R. - 2
E. Nishnabotna R. - 20	Middle Fork Grand R. - 68	W. Nishnabotna R. - 3
East Branch West Nishnabotna - 15	Middle Nodaway R. - 41	Walker Br. - 101
East Fork Grand R. - 69	Middle Nodaway R. - 42	Walnut Cr. - 4
East Fork Medicine Cr. - 82	Middle Platte R. - 61	Walnut Cr. -5
East Nodaway R. - 39	Middle Silver Cr. - 8	Walnut Cr. - 64
East Nodaway R. - 40	Mill Cr. - 21	Walnut Cr. - 98
East Platte R. - 60	Mud Cr. - 10	Weldon R. - 79
East Tarkio Cr. - 32	Ninemile Cr. - 106	West Branch 102 R. - 46
Elk Cr. - 18	Nishnabotna R. - 1	West Branch 102 R. - 47
Elk Cr. - 73	Nodaway R. - 34	West Branch Cr. - 77
Elkhorn Cr. - 25	North Cr. - 86	West Fork 102 R. - 44
Farm Cr. - 11	North Fabius R. - 112	West Fork 102 R. - 45
Fisher Cr. - 22	North Fox Cr. - 116	West Fork Middle Nodaway - 43
Fivemile Cr. - 111	Packard Cr. - 94	West Fork West Nishnabotna - 16
Fourmile Cr. - 76	Platte Branch - 55	West Mill Cr. - 33
Fox R. - 115	Platte R. - 56	West Nodaway R. - 35
Gard Branch - 59	Platte R. - 57	West Nodaway R. - 36
Grand R. - 62	Plum Cr. - 67	West Nodaway R. - 37
Grand R. - 63	Rose Branch - 49	West Tarkio Cr. - 30
Grand R. - 71	S. Shoal Cr. - 84	Willow Cr. - 17
		Wolf Cr. - 109

SOUTHERN

MAJOR RIVER - NISHNABOTNA R. AND ITS TRIBUTARIES

- Nishnabotna R.
 1. Iowa-Missouri state line (Fremont Co.) to confluence of the E. Nishnabotna R. and the W. Nishnabotna R. (Fremont Co.)

W. NISHNABOTNA R. AND ITS TRIBUTARIES

- W. Nishnabotna R.
 2. Mouth (Fremont Co.) to confluence with W. Fk. of W. Nishnabotna R. (Shelby Co.)

A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
	X						
	X						

SOUTHERN MAJOR RIVER - NISHNABOTNA R. AND ITS TRIBUTARIES W. NISHNABOTNA R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
W. Nishnabotna R.									
3.	Confluence with West Fork West Nishnabotna R. to confluence with an unnamed tributary (S34, T83N, R36W, Carroll Co.)			X					
Walnut Cr.									
4.	Mouth (S8, T69N, R41W, Fremont Co.) to confluence with an unnamed tributary (S30/31 line, T73N, R38W, Montgomery Co.)		X						
Walnut Cr.									
5.	Confluence with an unnamed tributary (S30/31 line, T73N, R38W, Montgomery Co.) to confluence with an unnamed tributary (S3, T76N, R38W, Pottawattamie Co.)			X					
Silver Cr.									
6.	Mouth (Mills Co.) to Hwy. 41 (Mills Co.)		X						
Silver Cr.									
7.	Hwy. 41 (Mills Co.) to confluence with Little Silver Cr. (S34, T78N, R40W, Shelby Co.)			X					
Middle Silver Cr.									
8.	Mouth (S31, T74N, R41W, Pottawattamie Co.) to confluence with Little Silver Cr. (S12, T74N, R42W, Pottawattamie Co.)			X					
Indian Cr.									
9.	Mouth (S13, T72N, R41W, Mills Co.) to confluence with an unnamed tributary (S26, T72N, R40W, Mills Co.)			X					
Mud Cr.									
10.	Mouth (S31, T73N, R40W, Mills Co.) to confluence with an unnamed tributary (NW 1/4, S14, T73N, R41W, Mills Co.)			X					
Farm Cr.									
11.	Mouth (S9, T73N, R40W, Mills Co.) to confluence with Jordan Cr. (S31, T74N, R39W, Pottawattamie Co.)			X					
Greybill Cr.									
12.	Mouth (S36, T74N, R40W, Pottawattamie Co.) to confluence with unnamed tributary (NW 1/4, S21, T75N, R39W, Pottawattamie Co.)			X					
Jordan Cr.									
13.	Mouth (S31, T74N, R39W, Pottawattamie Co.) to confluence with Spring Cr. (S4, T74N, R39W, Pottawattamie Co.)			X					
Jim Cr.									
14.	Mouth (S32, T77N, R39W, Pottawattamie Co.) to confluence with an unnamed tributary (S33, T77N, R39W, Pottawattamie Co.)			X					
East Branch West Nishnabotna R.									
15.	Mouth (S29, T77N, R39W, Pottawattamie Co.) to confluence with Lone Willow Cr. (S9, T80N, R36W, Audubon Co.)			X					
West Fork West Nishnabotna R.									
16.	Mouth (Shelby Co.) to confluence with Malony Branch (S29, T83N, R37W, Crawford Co.)			X					
Willow Cr.									
17.	Mouth (Shelby Co.) to confluence with an unnamed tributary (S3, T81N, R39W, Shelby Co.)			X					
Elk Cr.									
18.	Mouth (Shelby Co.) to confluence with an unnamed tributary (NW 1/4, S28, T82N, R37W, Crawford Co.)			X					

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
SOUTHERN								
MAJOR RIVER - NISHNABOTNA R. AND ITS TRIBUTARIES								
E. NISHNABOTNA R. AND ITS TRIBUTARIES								
E. Nishnabotna R.								
19. Mouth (Fremont Co.) to confluence of Troublesome Creek (Cass Co.)		X						
E. Nishnabotna R.								
20. Confluence with Troublesome Cr. (S32, T77N, R36W, Cass Co.) to confluence with an unnamed tributary (E 1/2, NW 1/4, S6, T80N R34W, Audubon Co.)			X					
Mill Cr.								
21. Mouth (S31, T68N, R41W, Fremont Co.) to confluence with an unnamed tributary (SE 1/4, NW 1/4, S15, T67N, R41W, Fremont Co.)			X					
Fisher Cr.								
22. Mouth (S27, T69N, R40W, Fremont Co.) to confluence with an unnamed tributary (S11/12 line, T68N, R40W, Fremont Co.)			X					
Indian Cr.								
23. Mouth (S17, T75N, R37W, Cass Co.) to confluence with Wolf Cr. (S35, T79N, R37W, Shelby Co.)			X					
Camp Cr.								
24. Mouth (S5/6 line, T77N, R37W, Cass Co.) to confluence with an unnamed tributary (S16, T77N, R37W, Cass Co.)			X					
Elkhorn Cr.								
25. Mouth (S20, T78N, R37W, Shelby Co.) to confluence with an unnamed tributary (S10, T78N, R37W, Shelby Co.)			X					
Turkey Cr.								
26. Mouth (S2, T75N, R37W, Cass Co.) to confluence with Eller Branch (S13, T76N, R36W, Cass Co.)			X					
Troublesome Cr.								
27. Mouth (S32, T77N, R36W, Cass Co.) to confluence with Fourmile Cr. (S8, T78N, R34W, Audubon Co.)			X					
Davids Cr.								
28. Mouth (S4, T78N, R35W, Audubon Co.) to confluence with Honey Cr. (S31, T79N, R34W, Audubon Co.)			X					
Bluegrass Cr.								
29. Mouth (S14, T79N, R35W, Audubon Co.) to confluence with an unnamed tributary from the West (S34, T80N, R35W, Audubon Co.)			X					
MAJOR RIVER - WEST TARKIO CR. AND ITS TRIBUTARIES								
West Tarkio Cr.								
30. Iowa-Missouri state line (Page Co.) to confluence with an unnamed tributary (S9, T69N, R38W, Page Co.)			X					
MAJOR RIVER - TARKIO R. AND ITS TRIBUTARIES								
Tarkio R.								
31. Iowa-Missouri state line (Page Co.) to confluence with East Tarkio Cr. (S4, T72N, R37W, Montgomery Co.)			X					
EAST TARKIO CR. AND ITS TRIBUTARIES								
East Tarkio Cr.								
32. Mouth (S9, T68N, R38W, Page Co.) to confluence with an unnamed tributary (S7, T69N, R37W, Page Co.)			X					

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
SOUTHERN MAJOR RIVER - WEST MILL CR. AND ITS TRIBUTARIES								
West Mill Cr.								
33. Iowa-Missouri state line to confluence with an unnamed tributary (NE 1/4, S12, T67N, R38W, Page Co.)			X					
MAJOR RIVER - NODAWAY R. AND ITS TRIBUTARIES								
Nodaway R.								
34. Iowa-Missouri state line (Page Co.) to confluence of Middle Nodaway R. and the W. Nodaway R. (Montgomery Co.)		X						
WEST NODAWAY R. AND ITS TRIBUTARIES								
West Nodaway R.								
35. Mouth (S33, T71N, R36W, Montgomery Co.) to confluence with Threemile Cr. (S35, T74N, R36W, Cass Co.)		X						
West Nodaway R.								
36. City of Clarinda Water Works intake						X		
West Nodaway R.								
37. Confluence with Threemile Cr. (S35, T74N, R36W, Cass Co.) to confluence with Whislars Branch (S17, T74N, R35W, Cass Co.)			X					
Sevenmile Cr.								
38. Mouth (S33, T73N, R36W, Montgomery Co.) to confluence with Fourmile Cr. (S33, T75N, R36W, Cass Co.)			X					
EAST NODAWAY R. AND ITS TRIBUTARIES								
East Nodaway R.								
39. Mouth (S6, T67N, R36W, Page Co.) to confluence with Long Branch (S17/18 line, T70N, R35W, Taylor Co.)		X						
East Nodaway R.								
40. Confluence with Long Branch (S17/18 line, T70N, R35W, Taylor Co.) to confluence with Shanghai Cr. (S16, T73N, R32W, Adams Co.)			X					
Middle Nodaway R.								
41. Mouth (Montgomery Co.) to confluence with West Fork Middle Nodaway (S33, T74N, R33W, Adair Co.)		X						
Middle Nodaway R.								
42. Confluence with West Fork Middle Nodaway (Adair Co.) to confluence with an unnamed tributary (S1, T75N, R32W, Adair Co.)			X					
West Fork Middle Nodaway R.								
43. Mouth (S33, T74N, R33W, Adair Co.) to confluence with Rutt Br. (S15, T75N, R33W, Adair Co.)			X					

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
SOUTHERN								
MAJOR RIVER - WEST FORK 102 R. AND ITS TRIBUTARIES								
West Fork 102 R.								
44. Iowa-Missouri state line to the confluence with the West Branch 102 R. (S10, T68N, R35W, Taylor Co.)		X						
West Fork 102 R.								
45. Confluence with West Branch 102 R. (S10, T68N, R35W, Taylor Co.) to confluence with an unnamed tributary (S6, T70N, R34W, Taylor Co.)			X					
WEST BRANCH 102 R. AND ITS TRIBUTARIES								
West Branch 102 R.								
46. Mouth (Taylor Co.) to confluence with Middle Branch 102 R. (S6, T69N, R34W, Taylor Co.)		X						
West Branch 102 R.								
47. Confluence with Middle Branch 102 R. (S6, T69N, R34W, Taylor Co.) to confluence with Willow Cr. (S29, T71N, R33W, Adams Co.)			X					
Middle Branch 102 R.								
48. Mouth (Taylor Co.) to bridge crossing at (S16/21, T70N, R33W, Taylor Co.)			X					
ROSE BRANCH AND ITS TRIBUTARIES								
Rose Branch								
49. Mouth (Taylor Co.) to confluence with an unnamed tributary (S34, T71N, R34W, Adams Co.)			X					
MAJOR RIVER - MIDDLE FORK 102 R. AND ITS TRIBUTARIES								
Middle Fork 102 R.								
50. Iowa-Missouri state line to Hwy. 149 bridge crossing (S22/23, T69N, R34W, Taylor Co.)			X					
BRUSHY CR. AND ITS TRIBUTARIES								
Brushy Cr.								
51. Mouth (Taylor Co.) to confluence with an unnamed tributary (S24, T68N, R35W, Taylor Co.)			X					
MAJOR RIVER - E. FK 102 R. AND ITS TRIBUTARIES								
E. FK 102 R.								
52. Iowa-Missouri state line to bridge crossing (Center, S8, T68N, R33W, Taylor Co.)		X						
E. FK 102 R.								
53. City of Bedford Water Works intake						X		
MAJOR RIVER - HONEY CR. AND ITS TRIBUTARIES								
Honey Cr.								
54. Iowa-Missouri state line to confluence with an unnamed tributary (S14, T69N, R32W, Taylor Co.)			X					
MAJOR RIVER - PLATTE BRANCH AND ITS TRIBUTARIES								
Platte Branch								
55. Iowa-Missouri state line to bridge crossing (S16/17, T68N, R32W, Taylor Co.)			X					
MAJOR RIVER - PLATTE R. AND ITS TRIBUTARIES								
Platte R.								
56. Iowa-Missouri state line (S28, T67N, R32W, Taylor Co.) to confluence with an unnamed tributary (NE 1/4, S36, T68N, R32W, Taylor Co.)		X						

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
SOUTHERN MAJOR RIVER - PLATTE R. AND ITS TRIBUTARIES								
Platte R.								
57.			X					
Confluence with an unnamed tributary (NE 1/4, S36, T68N, R32W, Taylor Co.) to confluence with an unnamed tributary (NE 1/4, S16, T72N, R31W, Union Co.)								
TURKEY CR. AND ITS TRIBUTARIES								
Turkey Cr.								
58.			X					
Mouth (Ringgold Co.) to confluence with an unnamed tributary (NE 1/4, S29, T69N, R31W, Ringgold Co.)								
GARD BRANCH AND ITS TRIBUTARIES								
Gard Branch								
59.			X					
Mouth (Ringgold Co.) to confluence with an unnamed tributary (SE 1/4, S20, T70N, R31W, Ringgold Co.)								
EAST PLATTE R. AND ITS TRIBUTARIES								
East Platte R.								
60.			X					
Mouth (S9, T70N, R31W, Ringgold Co.) to confluence with Middle Platte R. (S33, T71N, R31W, Union Co.)								
Middle Platte R.								
61.			X					
Mouth (S33, T71N, R31W, Union Co.) to confluence with East Branch Middle Platte R. (S16, T71N, R31W, Union Co.)								
MAJOR RIVER - GRAND R. AND ITS TRIBUTARIES								
Grand R.								
62.		X						
Iowa-Missouri state line (S30, T67N, R31W, Ringgold Co.) to confluence with Crooked Cr. (S5, T68N, R30W, Ringgold Co.)								
Grand R.								
63.			X					
Confluence with Crooked Cr. (S5, T68N, R30W, Ringgold Co.) to bridge crossing (S25/36 line, T71N, R30W, Union Co.)								
WALNUT CR. AND ITS TRIBUTARIES								
Walnut Cr.								
64.			X					
Mouth (Ringgold Co.) to confluence with an unnamed tributary (NE 1/4, S36, T69N, R30W, Ringgold Co.)								
CROOKED CR. AND ITS TRIBUTARIES								
Crooked Cr.								
65.			X					
Mouth (Ringgold Co.) to confluence with Brush Cr. (S28, T69N, R30W, Ringgold Co.)								
SQUAW CR. AND ITS TRIBUTARIES								
Squaw Cr.								
66.			X					
Mouth (Ringgold Co.) to confluence with an unnamed tributary (S27, T70N, R30W, Ringgold Co.)								
PLUM CR. AND ITS TRIBUTARIES								
Plum Cr.								
67.			X					
Mouth (Ringgold Co.) to confluence with West Plum Cr. (S18, T70N, R30W, Ringgold Co.)								
MAJOR RIVER - MIDDLE FORK GRAND R. AND ITS TRIBUTARIES								
Middle Fork Grand R.								
68.			X					
Iowa-Missouri state line (Ringgold Co.) to confluence with an unnamed tributary (S13, T68N, R30W, Ringgold Co.)								

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
SOUTHERN								
MAJOR RIVER - EAST FORK GRAND R. AND ITS TRIBUTARIES								
East Fork Grand R.								
69.			X					
Iowa-Missouri state line (Ringgold Co.) to confluence with Goosebury Cr. (S2, T68N, R29W, Ringgold Co.)								
MAJOR RIVER - LOTT'S CR. AND ITS TRIBUTARIES								
Lotts Cr.								
70.			X					
Iowa-Missouri state line (Ringgold Co.) to confluence with Tuckers Cr. (S12, T67N, R29W, Ringgold Co.)								
MAJOR RIVER - GRAND R. (AKA THOMPSON CR.) AND ITS TRIBUTARIES								
Grand R. (aka Thompson R.)								
71.	X	X						
Iowa-Missouri state line (Decatur Co.) to confluence with Long Cr. (SW 1/4, S8, T69N, R26W, Decatur Co.)								
Grand R. (aka Thompson R.)								
72.	X		X					
Confluence with Long Cr. (SW 1/4, S8, T69N, R26W, Decatur Co.) to U.S. Hwy. 34 (S17, T72N, R28W, Union Co.)								
Grand R. (aka Thompson R.)								
72a.			X					
U.S. Hwy. 34 (S17, T72N, R28W, Union Co.) to confluence with Marvel Cr. (S8, T75N, R30W, Adair Co.)								
ELK CR. AND ITS TRIBUTARIES								
Elk Cr.								
73.			X					
Mouth (S18, T68N, R26W, Decatur Co.) to confluence with an unnamed tributary (S20, T69N, R27W, Decatur Co.)								
LONG CR. AND ITS TRIBUTARIES								
Long Cr.								
74.			X					
Mouth (S8, T69N, R26W, Decatur Co.) to confluence with East Long Creek (S36, T71N, R27W, Clarke Co.)								
TWELVEMILE CR. AND ITS TRIBUTARIES								
Twelvemile Cr.								
75.			X					
Mouth (S36, T71N, R28W, Union Co.) to confluence with an unnamed tributary (NW 1/4, NE 1/4, S12, T71N, R29W, Union Co.)								
FOURMILE CR. AND ITS TRIBUTARIES								
Fourmile Cr.								
76.			X					
Mouth (S2, T72N, R28W, Union Co.) to confluence with an unnamed tributary (E 1/2, S23, T72N, R28W, Union Co.)								
WEST BRANCH CR. AND ITS TRIBUTARIES								
West Branch Cr.								
77.			X					
Mouth (S34, T74N, R29W, Madison Co.) to confluence with an unnamed tributary (E 1/2, S32, T74N, R29W, Madison Co.)								
MAJOR RIVER - LITTLE R. AND ITS TRIBUTARIES								
Little R.								
78.			X					
Iowa-Missouri state line (Decatur Co.) to Dam at road crossing (SE 1/2, NW 1/4, S30, T69N, R25W, Decatur Co.)								
MAJOR RIVER - WELDON R. AND ITS TRIBUTARIES								
Weldon R.								
79.			X					
Iowa-Missouri state line (Decatur Co.) to confluence with Mormon Pool (S28, T70N, R24W, Decatur Co.)								
STEEL CR. AND ITS TRIBUTARIES								
Steel Cr.								
80.			X					
Mouth (S 10/11 line, T67N, R24W, Decatur Co.) to confluence with an unnamed tributary (NE 1/4, S11, T68N, R24W, Decatur Co.)								

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
SOUTHERN								
MAJOR RIVER - WELDON R. AND ITS TRIBUTARIES								
JONATHAN CR. AND ITS TRIBUTARIES								
Jonathan Cr.								
81.			X					
Mouth (S20, T69N, R24W, Decatur Co.) to confluence with Cobbleville Cr. (W 1/2, S6, T69N, R24W, Decatur Co.)								
MAJOR RIVER - EAST FORK MEDICINE CR. AND ITS TRIBUTARIES								
East Fork Medicine Cr.								
82.			X					
Iowa-Missouri state line (Wayne Co.) to confluence with an unnamed tributary (E 1/2, S24, T68N, R22W, Wayne Co.)								
MAJOR RIVER - LOCUST CR. AND ITS TRIBUTARIES								
Locust Cr.								
83.			X					
Iowa-Missouri state line (Wayne Co.) to confluence with an unnamed tributary (S15, T67N, R20W, Wayne Co.)								
MAJOR RIVER - S. SHOAL CR. AND ITS TRIBUTARIES								
S. Shoal Cr.								
84.			X					
Iowa-Missouri state line (Appanoose Co.) to confluence with North Cr. (N 1/2, S16, T67N, R18W, Appanoose Co.)								
SOUTH CR. AND ITS TRIBUTARIES								
South Cr.								
85.			X					
Mouth (S 1/2, S16, T67N, R18W, Appanoose Co.) to confluence with an unnamed tributary (W 1/2, S17, T67N, R18W, Appanoose Co.)								
NORTH CR. AND ITS TRIBUTARIES								
North Cr.								
86.			X					
Mouth (N 1/2, S16, T67N, R18W, Appanoose Co.) to confluence with an unnamed tributary (W 1/2, of SE 1/4, S8, T67N, R18W, Appanoose Co.)								
MAJOR RIVER - SHOAL CR. AND ITS TRIBUTARIES								
Shoal Cr.								
87.			X					
Iowa-Missouri state line (Appanoose Co.) to confluence with an unnamed tributary (S28, T68N, R19W, Appanoose Co.)								
MAJOR RIVER - CHARITON R. AND ITS TRIBUTARIES								
Chariton R.								
88.		X						
Iowa-Missouri state line (Appanoose Co.) to Hwy. 2 (Appanoose Co., S27, T69N, R17W)								
Chariton R.								
89.		X						X
Hwy. 2 (Appanoose Co., S27, T69N, R17W) to Rathbun Reservoir Dam (Appanoose Co., S35, T69N, R18W)								
Chariton R.								
90.						X		
Rathbun Regional Water Company water supply intake								
Chariton R.								
91.	X	X						X
Rathbun Reservoir Dam to upper extent of Rathbun Lake conservation pool								
Chariton R.								
92.			X					X
Upper extent of Rathun Lake conservation pool to Highway 14 (Lucas Co.)								
Chariton R.								
93.			X					
Highway 14 (Lucas Co.) to confluence with Chariton Creek (S19, T71N, R23W, Lucas Co.)								

	A	(BWW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
SOUTHERN MAJOR RIVER - CHARITON R. AND ITS TRIBUTARIES								
PACKARD CR. AND ITS TRIBUTARIES								
Packard Cr.								
94.			X					
Mouth (S8, T67N, R16W, Appanoose Co.) to confluence with an unnamed tributary (S1, T67N, R17W, Appanoose Co.)								
Brush Cr.								
95.			X					
Mouth (S6, T67N, R16W, Appanoose Co.) to confluence with an unnamed tributary (S22, T68N, R17W, Appanoose Co.)								
UNNAMED CR. AND ITS TRIBUTARIES								
Unnamed Cr.								
96.			X					
Mouth (S17, T67N, R16W, Appanoose Co.) to confluence with an unnamed tributary (S14, T67N, R16W, Appanoose Co.)								
COOPER CR. AND ITS TRIBUTARIES								
Cooper Cr.								
97.			X					
Mouth (Appanoose Co.) to confluence with an unnamed tributary (S9, T68N, R19W, Appanoose Co.)								
WALNUT CR. AND ITS TRIBUTARIES								
Walnut Cr.								
98.			X					
Mouth (Appanoose Co.) to confluence with an unnamed tributary (S31, T69N, R19W, Appanoose Co.)								
Little Walnut Cr.								
99.			X					
Mouth (Appanoose Co.) to confluence with Wolf Branch (S12, T69N, R19W, Appanoose Co.)								
SOUTH FORK CHARITON R. AND ITS TRIBUTARIES								
South Fork Chariton R.								
100.			X					
Mouth (Lake Rathbun) to outfall of Bob White State Park Lake (S4, T68N, R22W, Wayne Co.)								
Walker Br.								
101.			X					
Mouth (S36, T70N, R20W, Wayne Co.) to confluence with South Fork Walker Br. (SE 1/4, S26, T70N, R20W, Wayne Co.)								
Jordan Cr.								
102.			X					
Mouth (S1, T70N, R21W, Wayne Co.) to confluence with an unnamed tributary (E 1/2, of the NW 1/4, S26, T70N, R21W, Wayne Co.)								
Jackson Cr.								
103.			X					
Mouth (S1, T70N, R21W, Wayne Co.) to confluence with an unnamed tributary (S12, T68N, R21W, Wayne Co.)								
W. Jackson Cr.								
104.			X					
Mouth (S25, T69N, R21W, Wayne Co.) to confluence with an unnamed tributary (S31, T69N, R21W, Wayne Co.)								
Unnamed Cr.								
105.			X					
Mouth (S5, T69N, R21W, Wayne Co.) to confluence with an unnamed tributary (S7, T69N, R21W, Wayne Co.)								
Ninemile Cr.								
106.			X					
Mouth (S4, T69N, R22W, Wayne Co.) to confluence with an unnamed tributary (S31, T70N, R22W, Wayne Co.)								
Dick Cr.								
107.			X					
Mouth (S16, T69N, R22W, Wayne Co.) to confluence with an unnamed tributary (NE 1/4, S18, T69N, R22W, Wayne Co.)								

	A	(BWW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
SOUTHERN MAJOR RIVER - CHARITON R. AND ITS TRIBUTARIES								
HONEY CR. AND ITS TRIBUTARIES								
Honey Cr.								
108.			X					
Mouth (S26, T71N, R20W, Lucas Co.) to confluence with an unnamed tributary (S10, T71N, R20W, Lucas Co.)								
WOLF CR. AND ITS TRIBUTARIES								
Wolf Cr.								
109.			X					
Mouth (S15, T71N, R21W, Lucas Co.) to confluence with an unnamed tributary (E 1/2, NW 1/4, S8, T70N, R22W, Wayne Co.)								
Brush Cr.								
110.			X					
Mouth (S31, T71N, R21W, Lucas Co.) to confluence with an unnamed tributary (SW 1/4, S13, T70N, R22W, Wayne Co.)								
Fivemile Cr.								
111.			X					
Mouth (S35, T71N, R22W, Lucas Co.) to confluence with an unnamed tributary (S29, T71N, R22W, Lucas Co.)								
MAJOR RIVER - NORTH FABIUS R. AND ITS TRIBUTARIES								
North Fabius R.								
112.			X					
Iowa-Missouri state line to confluence with an unnamed tributary (Center, S33, T68N, R15W, Davis Co.)								
MAJOR RIVER - CARTER CR. AND ITS TRIBUTARIES								
Carter Cr.								
113.			X					
Iowa-Missouri state line to confluence with an unnamed tributary (NW 1/4, S28, T68N, R14W, Davis Co.)								
MAJOR RIVER - SOUTH WYACONDA R. AND ITS TRIBUTARIES								
South Wyaconda R.								
114.			X					
Iowa-Missouri state line to confluence with an unnamed tributary (NE 1/4, S19, T68N, R13W, Davis Co.)								
MAJOR RIVER - FOX R. AND ITS TRIBUTARIES								
Fox R.								
115.			X					
Iowa-Missouri state line to confluence with an unnamed tributary (S29, T69N, R15W, Davis Co.)								
NORTH FOX CR. AND ITS TRIBUTARIES								
North Fox Cr.								
116.			X					
Mouth (Davis Co.) to confluence with an unnamed tributary (S2, T69N, R15W, Appanoose Co.)								
SOUTH FOX CR. AND ITS TRIBUTARIES								
South Fox Cr.								
117.			X					
Mouth (SE 1/4, S28, T69N, R15W, Davis Co.) to confluence with an unnamed tributary (S5, T68N, R15W, Davis Co.)								

DES MOINES RIVER BASIN

Des Moines River Basin (Lower Des Moines River, Upper Des Moines River, East Fork Des Moines River, Blue Earth River, and Raccoon River Subbasins).

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for the Des Moines River Basin. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Badger Cr. - 59	E Fk. Des Moines R. - 165	North R. - 56
Badger Cr. - 162	E Fk. Des Moines R. - 166	North R. - 57
Bay Branch - 88	E Fk. Des Moines R. - 167	North Raccoon River - 98
Bear Cr. - 20	Eagle Cr. - 148	Old Channel - Des Moines - 186
Bear Cr. - 80	East Buttrick Cr. - 107	Orman Cr. - 64
Bear Cr. - 138	East Cedar Cr. - 112	Otter Cr. - 41
Beaver Cr. - 128	East Fork Des Moines R. - 168	Otter Cr. - 150
Beaver Cr. - 164	Elk Run - 116	Outlet Cr. - 127
Beaver Cr. - 183	English Cr. - 31	Panther Cr. - 78
Big Cr. - 136	Fourmile Cr. - 67	Pilot Cr. - 181
Big Creek - 134	Fourmile Cr. - 68	Plum Cr. - 172
Big Creek - 135	Greenbrier Cr. - 103	Plunger Cr. - 66
Black Cat Cr. - 171	Hardin Cr. - 108	Prairie Cr. - 120
Bloody Run - 169	Hickory Cr. - 100	Prairie Cr. - 151
Blue Earth R. - 187	Honey Cr. - 139	Prairie Cr. - 155
Bluff Cr. - 140	Howerdon Cr. - 65	Prairie Cr. - 155a
Boone R. - 142	Indian Cr. - 123	Prairie Cr. - 179
Boone R. - 143	Indian Cr. - 180	Purgatory Cr. - 114
Boone R. - 144	Jack Cr. - 185	Raccoon R. - 70
Boone R. - 145	Jim Cr. - 63	Raccoon R. - 71
Brush Cr. - 19	Jones Cr. - 49	Raccoon R. - 72
Brush Cr. - 36	Lake Cr. - 117	Rock Cr. - 133
Brushy Cr. - 153	Lake Cr. - 118	S. Br. Lizard Cr. - 159
Brushy Cr. - 154	Lick Cr. - 14	S. Raccoon R. - 76
Brushy Creek - 94	Lindsey Cr. - 173	S. Raccoon R. - 77
Brushy Creek - 95	Little Beaver Cr. - 129	Short Cr. - 109
Buck Cr. - 147	Little Beaver Cr. - 130	Silver Cr. - 184
Buck Run - 126	Little Cedar Cr. - 125	Skillet Cr. - 141
Buffalo Cr. - 174	Little Fourmile Cr. - 69	Slough Cr. - 131
Buttrick Cr. - 105	Little Soap Cr. - 18	Snake Cr. - 102
Calhoun Cr. - 37	Little White Breast Cr. - 53	Soap Cr. - 16
Camp Cr. - 38	Lizard Cr. - 157	Soap Cr. - 17
Camp Cr. - 121	Lizard Cr. - 158	Soldier Cr. - 156
Cavitt Cr. - 46	Lotts Cr. - 170	Soldier Cr. - 178
Cedar Cr. - 28	Marrowbone Cr. - 115	South Avery Cr. - 23
Cedar Cr. - 29	Middle Avery Cr. - 24	South Fork Clanton Cr. - 50
Cedar Cr. - 60	Middle Beaver Cr. - 132	South Fork Middle R. - 53
Cedar Cr. - 110	Middle Branch Boone R. - 152	South R. - 39
Cedar Cr. - 111	Middle Cr. - 58	South Soap Cr. - 21
Cedar Cr. - 124	Middle R. - 43	Spring Branch - 91
Chequest Cr. - 15	Middle R. - 45	Spring Cr. - 160
Clanton Cr. - 48	Middle Raccoon R. - 81	Sugar Cr. - 13
Coal Cr. - 40	Middle Raccoon R. - 82	Sugar Cr. - 75
Competine Cr. - 32	Middle Raccoon R. - 83	Swan Lake Branch - 101
Cylinder Cr. - 182	Middle Raccoon R. - 84	Tom Cr. - 62
D.D. 94 - 149	Middle Raccoon R. - 85	Union Slough - 175
Dead Brier Cr. - 104	Middle Raccoon R. - 86	Union Slough Ditch - 189
Deer Cr. - 93	Miller Cr. - 26	Unnamed Cr. - 92
Deer Cr. - 163	Mosquito Cr. - 87	Unnamed Cr. - 113
Des Moines R. - 1	Muchakinock Cr. - 27	Village Cr. - 22
Des Moines R. - 2	Mud Cr. - 42	W. Fk. Camp Cr. - 122
Des Moines R. - 3	Mud Cr. - 177	Walnut Cr. - 73
Des Moines R. - 4	N. Br. Lizard Cr. - 161	Walnut Cr. - 74
Des Moines R. - 5	N. Raccoon R. - 96	Welty Cr. - 52
Des Moines R. - 6	N. Raccoon R. - 97	West Buttrick Cr. - 106
Des Moines R. - 7	N. Raccoon R. - 99	West Fork Blue Earth R. - 188
Des Moines R. - 8	North Avery Cr. - 25	West Panther Cr. - 79
Des Moines R. - 9	North Branch North R. - 61	White Breast Cr. - 33
Des Moines R. - 10	North Buffalo Cr. - 176	White Breast Cr. - 34
Des Moines R. - 11	North Cedar Cr. - 30	White Fox Cr. - 146
Des Moines R. - 12	North Fork Clanton Cr. - 51	Willey Branch - 90
Des Moines R. - 12a	North R. - 54	Willow Cr. - 89
Ditch No. 9 & 13 - 119	North R. - 55	Wolf Cr. - 137

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
DES MOINES								
MAJOR RIVER - LOWER DES MOINES R. AND ITS								
TRIBUTARIES								
DES MOINES R. AND ITS TRIBUTARIES								
Des Moines R.								
1. Mouth (Lee Co.) to confluence with the Raccoon River (includes Red Rock Reservoir)	X	X						
Des Moines R.								
2. Ottumwa Municipal Water Works intake						X		
MAJOR RIVER - UPPER DES MOINES R. AND ITS								
TRIBUTARIES								
Des Moines R.								
3. Raccoon R. to Center St. Dam in Des Moines		X						
Des Moines R.								
4. Center St. Dam in Des Moines to Hwy. I-80/I-35 (S17, T79N, R24W, Polk Co.)	X	X						
Des Moines R.								
5. Des Moines Water Works intake, Prospect Park (NE 1/4, S28, T79N, R24W, Polk Co.)						X		
Des Moines R.								
6. Hwy. I-80/I-35 to Saylorville Reservoir Dam		X						
Des Moines R.								
7. Saylorville Reservoir Dam to Polk-Dallas co. line	X	X						
Des Moines R.								
8. Saylorville Reservoir to Fraser Dam (S2, T84N, R27W, Boone Co.)		X						
Des Moines R.								
9. Fraser Dam (Boone Co.) to W. line of S15, T88N, R28W, Webster Co.		X						X
Des Moines R.								
10. West line of S15, T88N, R28W (Webster Co.) to dam of upper impoundment at Fort Dodge		X						
Des Moines R.								
11. Upper impoundment at Fort Dodge	X	X						
Des Moines R.								
12. Fort Dodge Upper impoundment to Humboldt impoundment (aka Lake Nakomis) Dam		X						
Des Moines R.								
12a. Humboldt impoundment (aka Lake Nakomis) Dam to state line	X	X						
MAJOR RIVER - LOWER DES MOINES R. AND ITS								
TRIBUTARIES								
SUGAR CR. AND ITS TRIBUTARIES								
Sugar Cr.								
13. Mouth (Lee Co.) to bridge crossing (S8, T67N, R6W, Lee Co.)			X					
LICK CR. AND ITS TRIBUTARIES								
Lick Cr.								
14. Mouth (S19, T67N, R7W, Lee Co.) to confluence with an unnamed tributary (S32, T68N, R7W, Lee Co.)			X					
CHEQUEST CR. AND ITS TRIBUTARIES								
Chequest Cr.								
15. Mouth (S27, T69N, R10W, Van Buren Co.) to confluence with North Chequest Cr. (S25, T70N, R13W, Wapello Co.)		X						

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
DES MOINES								
MAJOR RIVER - LOWER DES MOINES R. AND ITS								
TRIBUTARIES								
SOAP CR. AND ITS TRIBUTARIES								
Soap Cr.								
16.		X						
Mouth (S35, T71N, R12W, Jefferson Co.) to confluence with Little Soap Creek (S1, T70N, R13W, Davis Co.)								
Soap Cr.								
17.			X					
Confluence with Little Soap Cr. (S1, T70N, R13W, Davis Co.) to confluence with an unnamed tributary (W 1/2, NE 1/4, S31, T71N, R16W, Monroe Co.)								
Little Soap Cr.								
18.			X					
Mouth (S1, T70N, R13W, Davis Co.) to confluence with an unnamed tributary (S21, T71N, R15W, Wapello Co.)								
Brush Cr.								
19.			X					
Mouth (S3, T70N, R14W, Davis Co.) to confluence with an unnamed tributary (E 1/2, S25, T71N, R15W, Wapello Co.)								
Bear Cr.								
20.			X					
Mouth (S19, T70N, R14W, Davis Co.) to confluence with an unnamed tributary (E 1/2, S4, T70N, R15W, Davis Co.)								
South Soap Cr.								
21.			X					
Mouth (S21, T70N, R15W, Davis Co.) to Lake Dam (S29, T70N, R16W, Appanoose Co.)								
VILLAGE CR. AND ITS TRIBUTARIES								
Village Cr.								
22.			X					
Mouth (S9, T71N, R13W, Wapello Co.) to confluence with Sandy Cr. (NW 1/4, S9, T71N, R14W, Wapello Co.)								
SOUTH AVERY CR. AND ITS TRIBUTARIES								
South Avery Cr.								
23.			X					
Mouth (S31, T73N, R14W, Wapello Co.) to confluence with an unnamed tributary (NE 1/4, S15, T72N, R15W, Wapello Co.)								
MIDDLE AVERY CR. AND ITS TRIBUTARIES								
Middle Avery Cr.								
24.			X					
Mouth (S25, T73N, R15W, Wapello Co.) to confluence with White Ash and Little Avery Crs. (W. line, S12, T72N, R16W, Monroe Co.)								
North Avery Cr.								
25.			X					
Mouth (S34, T73N, R15W, Wapello Co.) to confluence with an unnamed tributary (Center, S34, T73N, R16W, Monroe Co.)								
MILLER CR. AND ITS TRIBUTARIES								
Miller Cr.								
26.			X					
Mouth (Wapello Co.) to confluence with an unnamed tributary (Sec. 29, T73N, R16W, Monroe Co.)								
MUCHAKINOCK CR. AND ITS TRIBUTARIES								
Muchakinoack Cr.								
27.			X					
Mouth (Mahaska Co.) to confluence with an unnamed tributary (NW 1/4, SW 1/4, S27, T76N, R17W, Mahaska Co.)								

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
DES MOINES								
MAJOR RIVER - LOWER DES MOINES R. AND ITS TRIBUTARIES								
CEDAR CR. AND ITS TRIBUTARIES								
Cedar Cr.								
28.		X						
Mouth (S33, T75N, R17W, Mahaska Co.) to confluence with North Cedar Cr. (NE 1/4, S15, T74N, R18W, Marion Co.)								
Cedar Cr.								
29.			X					
Confluence with North Cedar Creek (NE 1/4, S15, T74N, R18W, Marion Co.) to confluence with Mormon Branch (S5, T71N, R18W, Monroe Co.)								
North Cedar Cr.								
30.			X					
Mouth (S15, T74N, R18W, Marion Co.) to confluence with Sage Cr. (SE 1/4, S7, T73N, R19W, Monroe Co.)								
ENGLISH CR. AND ITS TRIBUTARIES								
English Cr.								
31.			X					
Mouth (Marion Co.) to confluence with Long Branch (S16, T74N, R20W, Marion Co.)								
COMPETINE CR. AND ITS TRIBUTARIES								
Competine Cr.								
32.			X					
Mouth (Marion Co.) to confluence with an unnamed tributary (S5, T75N, R19W, Marion Co.)								
WHITE BREAST CR. AND ITS TRIBUTARIES								
White Breast Cr.								
33.		X						
Mouth (S10, T76N, R19W, Marion Co.) to confluence with Little White Breast Cr. (S11, T73N, R22W, Lucas Co.)								
White Breast Cr.								
34.			X					
Confluence with Little White Breast Cr. (Lucas Co.) to confluence with an unnamed tributary (S4, T71N, R24W, Clarke Co.)								
Little White Breast Cr.								
35.			X					
Mouth (Lucas Co.) to Ellis Lake (S27, T72N, R21W, Lucas Co.)								
Brush Cr.								
36.			X					
Mouth (Lucas Co.) to confluence with an unnamed tributary (W 1/2, S21, T72N, R23W, Lucas Co.)								
CALHOUN CR. AND ITS TRIBUTARIES								
Calhoun Cr.								
37.			X					
Mouth (Marion Co.) to confluence with Union Valley Cr. (S33, T78N, R20W, Jasper Co.)								
CAMP CR. AND ITS TRIBUTARIES								
Camp Cr.								
38.			X					
Mouth (Jasper Co.) to confluence with an unnamed tributary (S14, T79N, R22W, Polk Co.)								
SOUTH R. AND ITS TRIBUTARIES								
South R.								
39.			X					
Mouth (S12, T77N, R22W, Warren Co.) to confluence with Painter Cr. (SE 1/4, S13, T75N, R25W, Warren Co.)								
Coal Cr.								
40.			X					
Mouth (Warren Co.) to confluence with Coon Cr. (S29, T76N, R21W, Marion Co.)								
Otter Cr.								
41.			X					
Mouth (S34, T76N, R23W, Warren Co.) to confluence with Otter Cr. and South Otter Cr. (NW 1/4, S8, T73N, R23W, Lucas Co.)								

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
DES MOINES								
MAJOR RIVER - LOWER DES MOINES R. AND ITS TRIBUTARIES								
MUD CR. AND ITS TRIBUTARIES								
Mud Cr.								
42.			X					
Mouth (Polk Co.) to confluence with an unnamed tributary (S36, T80N, R23W, Polk Co.)								
MIDDLE R. AND ITS TRIBUTARIES								
Middle R.								
43.		X						
Mouth (Warren Co.) to confluence with Bush Branch (S8, T75N, R29W, Madison Co.)								
Middle R.								
45.			X					
Confluence with Bush Branch (S8, T75N, R29W, Madison Co.) to confluence with an unnamed tributary (NE 1/4, S17, T78N, R32W, Guthrie Co.)								
Cavitt Cr.								
46.			X					
Mouth (Warren Co.) to confluence with an unnamed tributary (S13, T76N, R24W, Warren Co.)								
Clanton Cr.								
48.			X					
Mouth (N 1/2, S28, T76N, R25W, Warren Co.) to confluence with North & South Fork Clanton Cr. (SW 1/4, S10, T74N, R27W, Madison Co.)								
Jones Cr.								
49.			X					
Mouth (Madison Co.) to confluence with an unnamed tributary (S28, T75N, R27W, Madison Co.)								
South Fork Clanton Cr.								
50.			X					
Mouth (Madison Co.) to confluence with an unnamed tributary (NE 1/4 of NW 1/4, S36, T74N, R28W, Madison Co.)								
North Fork Clanton Cr.								
51.			X					
Mouth (Madison Co.) to confluence with an unnamed tributary (S8/9, T74N, R28W, Madison Co.)								
Welty Cr.								
52.			X					
Mouth (S14, T75N, R29W, Madison Co.) to confluence with Rocky Branch (SE 1/4, S22, T75N, R29W, Madison Co.)								
South Fork Middle R.								
53.			X					
Mouth (S35, T78N, R32W, Guthrie Co.) to confluence with an unnamed tributary (S33, T78N, R32W, Guthrie Co.)								
NORTH R. AND ITS TRIBUTARIES								
North R.								
54.		X						
Mouth (Polk Co.) to County Rd. R63 (S16, T77N, R24W, Warren Co.)								
North R.								
55.		X						X
County Rd. R63 (S16, T77N, R24W, Warren Co.) to confluence with Badger Cr. (S33, T77N, R25W, Warren Co.)								
North R.								
56.			X					
Confluence with Badger Cr. (S33, T77N, R25W, Warren Co.) to confluence with North Branch North R. (S33, T77N, R27W, Madison Co.)								
North R.								
57.			X					
Confluence with North Branch North R. (Madison Co.) to confluence with an unnamed tributary (S11, T77N, R31W, Adair Co.)								

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
DES MOINES								
MAJOR RIVER - LOWER DES MOINES R. AND ITS								
TRIBUTARIES								
NORTH R. AND ITS TRIBUTARIES								
Middle Cr.								
58. Mouth (Warren Co.) to Lake Colechester Dam (NE 1/4, S1, T77N, R25W, Warren Co.)			X					
Badger Cr.								
59. Mouth (Warren Co.) to Badger Lake Dam (NW 1/4, S13, T77N, R27W, Madison Co.)			X					
Cedar Cr.								
60. Mouth (S9, T76N, R26W, Madison Co.) to confluence with an unnamed tributary (NW 1/4, S26, T76N, R28W Madison Co.)			X					
North Branch North R.								
61. Mouth (Madison Co.) to confluence with an unnamed tributary (S5, T77N, R29W, Madison Co.)			X					
Tom Cr.								
62. Mouth (Madison Co.) to confluence with an unnamed tributary (S26, T77N, R29W, Madison Co.)			X					
Jim Cr.								
63. Mouth (Madison Co.) to confluence with an unnamed tributary (S15, T77N, R29W, Madison Co.)			X					
Orman Cr.								
64. Mouth (S10, T76N, R28W, Madison Co.) to confluence with unnamed tributary (E 1/2, S4, T76N, R28W, Madison Co.)			X					
Howerdon Cr.								
65. Mouth (S17, T76N, R28W, Madison Co.) to confluence with an unnamed tributary (SW 1/4, S25, T76N, R29W, Madison Co.)			X					
Plunger Cr.								
66. Mouth (Adair Co.) to confluence with an unnamed tributary (S26, T77N, R30W, Adair Co.)			X					
FOURMILE CR. AND ITS TRIBUTARIES								
Fourmile Cr.								
67. Mouth (Polk Co.) to Co. Rd. bridge (S18, T80N, R23W, Polk Co.)	X		X					
Fourmile Cr.								
68. Co. Rd. bridge (S18, T80N, R23W, Polk Co.) to bridge crossing (N. line of S22, T81N, R24W, Polk Co.)			X					
Little Fourmile Cr.								
69. Mouth (Polk Co.) to confluence with an unnamed tributary (S35, T79N, R23W, Polk Co.)			X					
MAJOR RIVER - UPPER DES MOINES R. AND ITS								
TRIBUTARIES								
RACCOON R. AND ITS TRIBUTARIES								
Raccoon R.								
70. Mouth (Polk Co.) to Polk-Dallas county line	X	X						
Raccoon R.								
71. City of Des Moines Water Works intake						X		
Raccoon R.								
72. Polk-Dallas co. line to confluence of N. Raccoon R. and S. Raccoon R.	X	X						X
Walnut Cr.								
73. Mouth (S13, T78N, R25W, Polk Co.) to Interstate 35/80 (S33, T79N, R25W, Polk Co.)	X		X					

DES MOINES MAJOR RIVER - UPPER DES MOINES R. AND ITS TRIBUTARIES RACCOON R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
	Walnut Cr.								
74.	Interstate 35/80 (S33, T79N, R25W, Polk Co.) to confluence with Little Walnut Cr. (SE 1/4, S24, T79N, R26W, Dallas Co.)			X					
	Sugar Cr.								
75.	Mouth (S26, T78N, R26W, Dallas Co.) to confluence with an unnamed tributary from the West (S8, T78N, R26W, Dallas Co.)			X					
	S. Raccoon R.								
76.	Mouth (Dallas Co.) to confluence with Brushy Cr. (Guthrie Co.)		X						
	S. Raccoon R.								
77.	Confluence with Brushy Cr. (S22, T79N, R31W, Guthrie Co.) to confluence with Frost Cr. (S18, T80N, R32W, Guthrie Co.)			X					
	Panther Cr.								
78.	Mouth (S16, T78N, R28W, Dallas Co.) to confluence with West & East Panther Cr. (S16, T79N, R28W, Dallas Co.)			X					
	West Panther Cr.								
79.	Mouth (S16, T79N, R28W, Dallas Co.) to confluence with an unnamed tributary (NW 1/4, S9, T79N, R28W, Dallas Co.)			X					
	Bear Cr.								
80.	Mouth (S17, T78N, R28W, Dallas Co.) to confluence with an unnamed tributary (SW 1/4, S25, T78N, R29W, Dallas Co.)			X					
	Middle Raccoon R.								
81.	Mouth (Dallas Co.) to Redfield Dam (S5, T78N, R29W, Dallas Co.)	X	X						
	Middle Raccoon R.								
82.	Redfield Dam (Dallas Co.) to Lake Panorama Dam (S31, T80N, R30W, Guthrie Co.)	X	X						X
	Middle Raccoon R.								
83.	City of Panora Water Works intakes						X		
	Middle Raccoon R.								
84.	Lake Panorama	X	X						X
	Middle Raccoon R.								
85.	Lake Panorama to confluence with Willey Branch (A26, T83N, R34W, Carroll Co.)	X	X						
	Middle Raccoon R.								
86.	Confluence with Willey Branch (Carroll Co.) to confluence with an unnamed tributary (S8, T84N, R35W, Carroll Co.)			X					
	Mosquito Cr.								
87.	Mouth (S34, T79N, R29W, Dallas Co.) to confluence with an unnamed tributary (S21, T81N, R30W, Guthrie Co.)			X					
	Bay Branch								
88.	Mouth (S9, T79N, R30W, Guthrie Co.) to dam at Bay Branch Marsh (NW 1/4, S27, T80N, R30W, Guthrie Co.)			X					

DES MOINES MAJOR RIVER - UPPER DES MOINES R. AND ITS TRIBUTARIES RACCOON R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
89.	Willow Cr. Mouth (Guthrie Co.) to confluence with an unnamed tributary (SW 1/4, S30, T83N, R32W, Greene Co.)			X					
90.	Wiley Branch Mouth (Carroll Co.) to confluence with an unnamed tributary (S29, T83N, R34W, Carroll Co.)			X					
91.	Spring Branch Mouth (Carroll Co.) to confluence with an unnamed tributary (S16, T83N, R34W, Carroll Co.)			X					
92.	Unnamed Cr. Mouth (S29, T84N, R34W, Carroll Co.) to the northern road crossing on the section line between S24, T84N, R35W, and S19, T84N, R34W, Carroll Co.)			X					
93.	Deer Cr. Mouth (S15, T78N, R30W, Guthrie Co.) to confluence with an unnamed tributary (NE1/4, NE1/4 S19, T78N, R30W, Guthrie Co.)			X					
94.	Brushy Creek Mouth (Guthrie Co.) to Guthrie-Audubon Co. line		X						
95.	Brushy Creek Guthrie-Audubon Co. line to confluence with an unnamed tributary (S6, T82N, R34W, Carroll Co.)			X					
96.	N. Raccoon R. Mouth (Dallas Co.) to Hwy. 286 (S17, T85N, R33W, Carroll Co.)	X	X						X
97.	N. Raccoon R. Hwy. 286 (Carroll Co.) to Sac. Co. Rd. M54 (S24, T88N, R36W, Sac Co.)	X	X						
98.	North Raccoon R. Sac Co. Road M54 (S24, T88N, R36W, Sac Co.) to confluence with D.D. 101 (S36, T91N, R36W, Buena Vista Co.)		X						
99.	N. Raccoon R. Confluence with Drainage Ditch No. 101 (S36, T91N, R36W, Buena Vista Co.) to confluence with unnamed tributary (S4, T92N, R36W, Buena Vista Co.)			X					
100.	Hickory Cr. Mouth (S17, T79N, R27W, Dallas Co.) to confluence with unnamed tributary (westernmost tributary in W 1/2, S16, T79N, R27W, Dallas Co.)			X					
101.	Swan Lake Branch Mouth (S28, T81N, R28W, Dallas Co.) to west line S4, T80N, R28W, Dallas Co.			X					
102.	Snake Cr. Mouth (S2, T81N, R29W, Dallas Co.) to north line S26, T82N, R29W, Greene Co.			X					
103.	Greenbrier Cr. Mouth (S5, T81N, R29W, Dallas Co.) to west line S13, T82N, R31W, Greene Co.			X					
104.	Dead Brier Cr. Mouth (S36, T82N, R30W, Greene Co.) to confluence with an unnamed tributary (NE1/4, S26, T82N, R30W, Greene Co.)			X					

DES MOINES	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
MAJOR RIVER - UPPER DES MOINES R. AND ITS TRIBUTARIES								
RACCOON R. AND ITS TRIBUTARIES								
Buttrick Cr.								
105. Mouth (S26, T83N, R30W, Greene Co.) to confluence with East & West Buttrick Cr. (SE 1/4, S25, T84N, R30W, Greene Co.)			X					
West Buttrick Cr.								
106. Mouth (S25, T84N, R30W, Greene Co.) to confluence with Ditch No. 52 (SE 1/4, S16, T86N, R30W, Webster Co.)			X					
East Buttrick Cr.								
107. Mouth (S25, T84N, R30W, Greene Co.) to confluence with Lost Grove Cr. (SW 1/4, S4, T85N, R29W, Greene Co.)			X					
Hardin Cr.								
108. Mouth (S23, T83N, R30W, Greene Co.) to confluence with Happy Run (SW 1/4, S22, T85N, R31W, Greene Co.)			X					
Short Cr.								
109. Mouth (Greene Co.) to confluence with an unnamed tributary (S21, T84N, R31W, Greene Co.)			X					
Cedar Cr.								
110. Mouth (S33, T85N, R32W, Greene Co.) to confluence with an unnamed tributary (NW 1/4, S15, T85N, R32W, Greene Co.)		X						
Cedar Cr.								
111. Confluence with an unnamed tributary (NW 1/4, S15, T85N, R32W, Greene Co.) to confluence with East & West Cedar Crs. (S31, T87N, R31W, Calhoun Co.)			X					
East Cedar Cr.								
112. Mouth (South Line, S31, T87N, R31W, Calhoun Co.) to confluence with Welsh's Slough (Center, S3, T87N, R31W, Calhoun Co.)			X					
Unnamed Cr.								
113. Mouth (S18, T84N, R32W, Greene Co.) to confluence with an unnamed tributary (NE 1/4, S19, T84N, R32W, Greene Co.)			X					
Purgatory Cr.								
114. Mouth (S11, T84N, R33W, Carroll Co.) to confluence with an unnamed tributary (NE 1/4, S17, T86N, R32W, Calhoun Co.)			X					
Marrowbone Cr.								
115. Mouth (S17, T85N, R33W, Carroll Co.) to confluence with an unnamed tributary (NW 1/4, S17, T85N, R33W, Carroll Co.)			X					
Elk Run								
116. Mouth (S7, T85N, R33W, Carroll Co.) to confluence with D.D. Nos. 72 & 81 (S5, T85N, R34W, Carroll Co.)			X					
Lake Cr.								
117. Mouth (S23, T86N, R34W, Calhoun Co.) to East line S12, T86N, R34W, Calhoun Co.		X						
Lake Cr.								
118. East line S12, T86N, R34W, Calhoun Co. to confluence with Ditch Nos. 65, and 9 & 13 (S29, T88N, R32W, Calhoun Co.)			X					

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
DES MOINES								
MAJOR RIVER - UPPER DES MOINES R. AND ITS								
TRIBUTARIES								
ROCK CR. AND ITS TRIBUTARIES								
Rock Cr.								
133.								
Mouth (S32, T80N, R24W, Polk Co. to Hwy. 415 bridge crossing (S21, T80N, R24W, Polk Co.)								
			X					
BIG CREEK (AKA BIG CR. LAKE OUTLET) AND ITS								
TRIBUTARIES								
Big Creek (aka Big Cr. Lake Outlet)								
134.		X						
Mouth (Polk Co.) to Big Creek Lake Dam (SW 1/4, S26, T81N, R25W, Polk Co.)								
Big Creek (aka Big Cr. Lake Outlet)								
135.	X	X						
Big Cr. Lake								
Big Cr.								
136.				X				
Upper end of Big Creek Lake (Polk Co.) to confluence with an unnamed tributary (SE 1/4, S33, T83N, R25W, Boone Co.)								
Wolf Cr.								
137.				X				
Mouth (S36, T81N, R25W, Polk Co.) to North line, S25, T81N, R25W, Polk Co.								
BEAR CR. AND ITS TRIBUTARIES								
Bear Cr.								
138.				X				
Mouth (S29, T83N, R26W, Boone Co.) to confluence with an unnamed tributary (SE 1/4, S24, T83N, R27W, Boone Co.)								
HONEY CR. AND ITS TRIBUTARIES								
Honey Cr.								
139.		X						
Mouth (Boone Co.) to bridge crossing at (NW 1/4, S33, T84N, R26W, Boone Co.)								
BLUFF CR. AND ITS TRIBUTARIES								
Bluff Cr.								
140.				X				
Mouth (S22, T84N, R27W, Boone Co.) to dam/spillway at Don Williams Lake (NE 1/4, SW 1/4, S5, T84N, R27W, Boone Co.)								
SKILLET CR. AND ITS TRIBUTARIES								
Skillet Cr.								
141.				X				
Mouth (S16, T86N, R27W, Webster Co.) to confluence with an unnamed tributary (NW 1/4, SE 1/4, S14, T86N, R28W, Webster Co.)								
BOONE R. AND ITS TRIBUTARIES								
Boone R.								
142.	X	X						X
Mouth (Webster Co.) to State Hwy. 17 (S18, T88N, R25W, Hamilton Co.)								
Boone R.								
143.		X						X
State Hwy. 17 to confluence with Brewers Creek (Hamilton Co.)								
Boone R.								
144.		X						
Confluence with Brewers Creek (Hamilton Co.) to confluence with Middle Branch Boone R. (Wright Co.)								
Boone R.								
145.				X				
Confluence with Middle Branch Boone R. (Wright Co.) to confluence with Drainage Ditch No. 10 (S29, T95N, R26W, Hancock Co.)								
White Fox Cr.								
146.				X				
Mouth (S33, T89N, R25W, Hamilton Co.) to confluence with an unnamed tributary (E 1/2 of the SE 1/4 of S36, T91N, R25W, Wright Co.)								

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
DES MOINES								
MAJOR RIVER - UPPER DES MOINES R. AND ITS								
TRIBUTARIES								
BOONE R. AND ITS TRIBUTARIES								
Buck Cr.								
147.			X					
Mouth (S28, T89N, R25W, Hamilton Co.) to confluence with Drainage Ditch No. 144 (S11, T88N, R25W, Hamilton Co.)								
Eagle Cr.								
148.			X					
Mouth (S6, T89N, R25W, Hamilton Co.) to confluence with Little Eagle Cr. (S9, T91N, R25W, Wright Co.)								
D.D. 94								
149.			X					
Mouth (Wright Co.) to West line of S3, T90N, R26W, Wright Co.								
Otter Cr.								
150.		X						
Mouth (Wright Co.) to confluence with West Otter Cr. (S31, T93N, R25W, Wright Co.)								
Prairie Cr.								
151.			X					
Mouth (S30, T93N, R26W, Wright Co.) to confluence with D.D. No. 116 (S24, T94N, R28W, Kossuth Co.)								
Middle Branch Boone R.								
152.		X						
Mouth (Hancock Co.) to confluence with an unnamed tributary (S31, T95N, R25W, Hancock Co.)								
BRUSHY CR. AND ITS TRIBUTARIES								
Brushy Cr.								
153.			X					
Mouth (S15, T87N, R27W, Webster Co.) to Brushy Creek Lake Dam (S34, T88N, R27W, Webster Co.)								
Brushy Cr.								
154.			X					
Upper extent of Brushy Creek Lake (W. line of S16, T88N, R27W) to confluence with unnamed tributary (SE 1/4, S34, T89N, R27W, Webster Co.)								
PRAIRIE CR. AND ITS TRIBUTARIES								
Prairie Cr.								
155.	X		X					
Mouth (S35, T88N, R28W, Webster Co.) to Rd. crossing center of Section 28, T88N, R28W, Webster Co.								
Prairie Cr.								
155a.			X					
Road crossing center of Section 28, T88N, R28W, Webster Co. to confluence with D.D. No. 29 (S25, T88N, R29W, Webster Co.)								
SOLDIER CR. AND ITS TRIBUTARIES								
Soldier Cr.								
156.			X					
Mouth (S19, T89N, R28W, Webster Co.) to confluence with unnamed tributary (S26, T90N, R28W, Webster Co.)								
LIZARD CR. AND ITS TRIBUTARIES								
Lizard Cr.								
157.		X						
Mouth (S19, T89N, R28W, Webster Co.) to confluence with unnamed tributary (N 1/2, S31, T90N, R30W, Webster Co.)								
Lizard Cr.								
158.			X					
Confluence with unnamed tributary (N 1/2, S31, T90N, R30W, Webster Co.) to confluence with Drainage Ditch No. 164 (S31, T91N, R31W, Pocahontas Co.)								
S. Br. Lizard Cr.								
159.			X					
Mouth (S23, T89N, R29W, Webster Co.) to confluence with unnamed tributary (S25, T90N, R32W, Pocahontas Co.)								
Spring Cr.								
160.			X					
Mouth (S33, T89N, R29W, Webster Co.) to confluence with Prairie Creek (S14, T88N, R30W, Webster Co.)								

DES MOINES MAJOR RIVER - UPPER DES MOINES R. AND ITS TRIBUTARIES LIZARD CR. AND ITS TRIBUTARIES	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
N. Br. Lizard Cr.								
161. Mouth (S2, T91N, R31W, Pocahontas Co.) to confluence with Drainage Ditch No. 169 (S6, T91N, R31W, Pocahontas Co.)			X					
BADGER CR. AND ITS TRIBUTARIES								
Badger Cr.								
162. Mouth (S30, T90N, R28W, Webster Co.) to Badger Lake Dam (S19, T90N, R28W, Webster Co.)			X					
DEER CR. AND ITS TRIBUTARIES								
Deer Cr.								
163. Mouth (S13, T90N, R29W, Webster Co.) to confluence with unnamed tributary (S16, T90N, R29W, Webster Co.)			X					
BEAVER CR. AND ITS TRIBUTARIES								
Beaver Cr.								
164. Mouth (S32, T91N, R28W, Humboldt Co.) to confluence with unnamed tributary (S28, T91N, R28W, Humboldt Co.)			X					
E. FK. DES MOINES R. AND ITS TRIBUTARIES								
E. Fk. Des Moines R.								
165. Mouth (Humboldt Co.) to Divine bridge access Hwy. 169 (S26, T94N, R29W, Kossuth Co.)	X	X						X
E. Fk. Des Moines R.								
166. Divine bridge access Hwy. 169 (S26, T94N, R29W, Kossuth Co.) to County Rd. B63 (S23, T94N, R29W, Kossuth Co.)		X						X
E. Fk. Des Moines R.								
167. County Rd. B63 (Kossuth Co.) to confluence with Buffalo Cr. (Kossuth Co.)		X						
East Fork Des Moines R.								
168. Confluence with Buffalo Cr. (S20, T97N, R28W, Kossuth Co.) to outlet control structure Tuttle Lake (aka Okamanpeedan Lake) (S14, T100N, R32W, Emmet Co.)		X						
Bloody Run								
169. Mouth (S33, T93N, R28W, Humboldt Co.) to confluence with unnamed tributary (S1, T92N, R29W, Humboldt Co.)			X					
Lotts Cr.								
170. Mouth (S17, T93N, R28W, Humboldt Co.) to confluence with D.D. No. 79 (SE 1/4, S15, T94N, R30W, Kossuth Co.)			X					
Black Cat Cr.								
171. Mouth (S24, T96N, R29W, Kossuth Co.) to North line (S5, T97N, R30W, Kossuth Co.)			X					
Plum Cr.								
172. Mouth (S17, T96N, R28W, Kossuth Co.) to confluence with an unnamed tributary (S16, T96N, R27W, Kossuth Co.)			X					
Lindsey Cr.								
173. Mouth (S28, T96N, R28W, Kossuth Co.) to confluence with an unnamed tributary (aka D.D. No. 36) (S30, T97N, R27W, Kossuth Co.)			X					
Buffalo Cr.								
174. Mouth (S20, T97N, R28W, Kossuth Co.) to confluence with D.D. No. 48 (S33, T98N, R26W, Winnebago Co.)			X					

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
DES MOINES								
MAJOR RIVER - UPPER DES MOINES R. AND ITS								
TRIBUTARIES								
E. FK. DES MOINES R. AND ITS TRIBUTARIES								
Union Slough								
175.				X				
Mouth (S9, T97N, R28W, Kossuth Co.) to outlet control structure (aka Des Moines R./Blue Earth R. basin divide) (N 1/2, S14, T98N, R28W, Kossuth Co.)								
North Buffalo Cr. (aka Little Buffalo Cr.)								
176.			X					
Mouth (S4, T97N, R27W, Kossuth Co.) to confluence with an unnamed tributary (S5, T98N, R26W, Winnebago Co.)								
Mud Cr.								
177.			X					
Mouth (S1, T97N, R29W, Kossuth Co.) to confluence with an unnamed tributary (North line S3/4, T98N, R29W, Kossuth Co.)								
Soldier Cr.								
178.			X					
Mouth (S36, T100N, R32W, Emmet Co.) to confluence with D.D. No. 4 (S27, T100N, R32W, Emmet Co.)								
INDIAN CR. AND ITS TRIBUTARIES								
Prairie Cr. (aka Ditch No. 61)								
179.			X					
Mouth (S1, T93N, R31W, Pocahontas Co.) to confluence with an unnamed tributary (S13, T94N, R31W, Palo Alto Co.)								
Indian Cr.								
180.			X					
Mouth (S24, T91N, R29W, Humboldt Co.) to confluence with Drainage Ditch No. 20 (S21, T91N, R29W, Humboldt Co.)								
PILOT CR. AND ITS TRIBUTARIES								
Pilot Cr.								
181.			X					
Mouth (S1, T92N, R31W, Pocahontas Co.) to confluence with an unnamed tributary (SW 1/4, S16, T93N, R32W, Pocahontas Co.)								
CYLINDER CR. AND ITS TRIBUTARIES								
Cylinder Cr.								
182.			X					
Mouth (NW 1/4, S28, T94N, R31W, Palo Alto Co.) to confluence with D.D. No. 15 (NW 1/4, S18, T96N, R31W, Palo Alto Co.)								
BEAVER CR. AND ITS TRIBUTARIES								
Beaver Cr.								
183.			X					
Mouth (S36, T93N, R31W, Pocahontas Co.) to confluence with an unnamed tributary (S12, T93N, R32W, Pocahontas Co.)								
SILVER CR. AND ITS TRIBUTARIES								
Silver Cr.								
184.			X					
Mouth (S35, T96N, R33W, Palo Alto Co.) to confluence with D.D. No. 62 (S23, T95N, R34W, Palo Alto Co.)								
JACK CR. AND ITS TRIBUTARIES								
Jack Cr.								
185.			X					
Mouth (S35, T97N, R33W, Palo Alto Co.) to Swan Lake outlet structure (S29, T99N, R32W, Emmet Co.)								
OLD CHANNEL - DES MOINES R. AND ITS								
TRIBUTARIES								
Old Channel - Des Moines R.								
186.		X						
Mouth (S26, T95N, R32W, Palo Alto Co.) to confluence with Ditch No. 41 (S29, T95N, R32W, Palo Alto Co.)								

DES MOINES MAJOR RIVER - UPPER DES MOINES R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
BLUE EARTH R. AND ITS TRIBUTARIES									
	Blue Earth R. (aka Middle Branch Blue Earth R.)								
187.	Iowa-Minnesota state line (S12, T100N, R28W, Kossuth Co.) to confluence with Ditch #7 (S9, T99N, R27W, Kossuth Co.)			X					
	West Fork Blue Earth R. (aka West Branch Blue Earth R.)								
188.	Iowa-Minnesota state line (S9, T100N, R28W, Kossuth Co.) to confluence with an unnamed tributary (S30, T100N, R28W, Kossuth Co.)			X					
	Union Slough Ditch (aka Union Slough Outlet)								
189.	Mouth (S9, T100N, R28W, Kossuth Co.) to outlet control structure (aka Des Moines R./Blue Earth R. basin divide) (N 1/2, S14, T98N, R28W, Kossuth Co.)			X					

SKUNK RIVER BASIN

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for the Skunk River Basin. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Ballard Cr. - 46	Fish Cr. - 20	S. Skunk R. - 31
Bear Cr. - 49	Indian Cr. - 40	S. Skunk R. - 32
Benjamin Cr. - 39	Long Cr. - 14	S. Skunk R. - 33
Big Cr. - 16	Long Dick Cr. - 50	S. Skunk R. - 34
Big Cr. - 17	Lynn Cr. - 19	Skunk R. - 9
Big Cr. - 17a	Middle Cr. - 56	Skunk R. - 11
Big Slough - 8	Mississippi R. - 1	Skunk R. - 12
Brush Cr. - 18	Mississippi R. - 2	Skunk R. - 13
Buckley Cr. - 37	Mississippi R. - 3	Snipe Cr. - 59
Cedar Cr. - 22	Mud Cr. - 15	South Skunk R. - 35
Cedar Cr. - 23	N. Skunk R. - 51	South Skunk R. - 36
Cedar Cr. - 54	N. Skunk R. - 52	Squaw Cr. - 48
Cherry Cr. - 38	N. Skunk R. - 53	Sugar Cr. - 5
Clear Cr. - 41	Oakland Mills Impoundment - 10	Sugar Cr. - 57
Competine Cr. - 27	Old South Skunk River Ch - 45	Unnamed Cr. - 4
Crooked Cr. - 28	Pitman Cr. - 6	W. Branch Indian Cr. - 42
Crow Cr. - 25	Rock Cr. - 24	W. Fk Crooked Cr. - 30
Dye Cr. - 44	Rock Cr. - 55	Walnut Cr. - 47
E. Branch Indian Cr. - 43	Rock Cr. - 58	West Branch Sugar Cr. - 7
East Fork Crooked Cr. - 29	Rock Cr. - 26	Wolf Cr. - 21

SKUNK MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES
MISSISSIPPI R. AND ITS TRIBUTARIES

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Mississippi R.								
1. Iowa-Missouri state line to confluence with the Skunk R.	X	X						
Mississippi R.								
2. Keokuk Municipal Water Works intakes						X		
Mississippi R.								
3. Fort Madison Municipal Water Works intakes						X		
UNNAMED CR. AND ITS TRIBUTARIES								
Unnamed Cr. (aka Labalees Cr.)								
4. Mouth (S1, T65N, R5W, Lee Co.) to confluence with an unnamed tributary (E 1/2, S35, T66N, R5W, Lee Co.)			X					

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
SKUNK MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES SUGAR CR. AND ITS TRIBUTARIES								
Sugar Cr.								
5.			X					
Mouth (S23, T67N, R5W, Lee Co.) to confluence with an unnamed tributary (S 1/2, S16, T69N, R6W, Lee Co.)								
Pitman Cr.								
6.			X					
Mouth (S29/30 line, T68N, R5W, Lee Co.) to confluence with an unnamed tributary (S21, T68N, R5W, Lee Co.)								
West Branch Sugar Cr.								
7.			X					
Mouth (S11/14 line, T68N, R6W, Lee Co.) to confluence with an unnamed tributary (S3, T68N, R6W, Lee Co.)								
BIG SLOUGH AND ITS TRIBUTARIES								
Big Slough								
8.		X						
Mouth (S24, T68N, R3W, Lee Co.) to confluence with an unnamed tributary (S18, T68N, R2W, Lee Co.)								
SKUNK R. AND ITS TRIBUTARIES								
Skunk R.								
9.		X						
Mouth to Oakland Mills Dam Skunk R.								
Oakland Mills Impoundment								
10.	X	X						
Dam to N line of S14, T71N, R7W, Henry Co.								
Skunk R.								
11.						X		
City of Mt. Pleasant Water Works intake								
Skunk R.								
12.		X						
Oakland Mills Impoundment to Henry Co. Rd. (S3, T71, R7W)								
Skunk R.								
13.		X						X
Henry Co. Rd. (S3, T73N, R7W) to confluence of N. Skunk R. and S. Skunk R.								
Long Cr.								
14.			X					
Mouth (Des Moines Co.) to confluence with an unnamed tributary (S3, T69N, R4W, Des Moines Co.)								
Mud Cr.								
15.			X					
Mouth (S34, T70N, R5W, Henry Co.) to confluence with an unnamed tributary (S12, T70N, R5W, Henry Co.)								
Big Cr.								
16.	X	X						
Mouth (Henry Co.) to confluence with Saunders Branch (S17, T71N, R6W, Henry Co.)								
Big Cr.								
17.	X		X					
Confluence with Saunders Branch (Henry Co.) to confluence with Brandywine Creek (S29, T72N, R6W, Henry Co.)								
Big Cr.								
17a.			X					
Confluence with Brandywine Creek (S29, T72N, R6W, Henry Co.) to confluence with Lawrence Creek (S5, T71N, R5W, Henry Co.)								
Brush Cr.								
18.			X					
Mouth (Henry Co.) to confluence with an unnamed tributary (S32, T71N, R5W, Henry Co.)								
Lynn Cr.								
19.			X					
Mouth (Henry Co.) to confluence with an unnamed tributary (S7, T72N, R6W, Henry Co.)								
Fish Cr.								
20.			X					
Mouth (S23, T70N, R6W, Henry Co.) to confluence with an unnamed tributary (S16, T70N, R6W, Henry Co.)								

SKUNK MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES SKUNK R. AND ITS TRIBUTARIES	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Wolf Cr. 21. Mouth (S8, T71N, R7W, Henry Co.) to confluence with an unnamed tributary (S1, T71N, R8W, Jefferson Co.)			X					
Cedar Cr. 22. Mouth (Henry Co.) to confluence with Little Cedar Cr. (S17, T70N, R7W, Henry Co.)		X						
Cedar Cr. 23. Confluence with Little Cedar Cr. (Sec. 17, T70N, R7W, Henry Co.) to confluence with an unnamed tributary (NW 1/4, of the NE 1/4, S24, T74N, R15W, Mahaska Co.)			X					
Rock Cr. 24. Mouth (Jefferson Co.) to confluence with Jones Br. (Sec. 29, T71N, R8W, Jefferson Co.)			X					
Crow Cr. 25. Mouth (Jefferson Co.) to confluence with an unnamed tributary (NW 1/4 of SW 1/4, S31, T72N, R9W, Jefferson Co.)			X					
Rock Cr. 26. Mouth (S34, T72N, R11W, Jefferson Co.) to confluence with an unnamed tributary (NE1/4, S5, T71N, R11W, Jefferson Co.)			X					
Competine Cr. 27. Mouth (Jefferson Co.) to confluence with an unnamed tributary (S15, T73N, R12W, Wapello Co.)			X					
Crooked Cr. 28. Mouth (S1, T73N, R8W, Jefferson Co.) to confluence with East and West Fork Crooked Cr. (S24, T74N, R7W, Washington Co.)			X					
East Fork Crooked Cr. 29. Mouth (S24, T74N, R7W, Washington Co.) to confluence with Phillips Creek (S8, T73N, R5W, Henry Co.)			X					
W. Fk. Crooked Cr. 30. Mouth (Washington Co.) to confluence with an unnamed tributary (SW 1/4, S21, T76N, R9W, Washington Co.)			X					
S. Skunk R. 31. Mouth (Keokuk Co.) to Hwy. 21 (S34, T75N, R13W, Keokuk Co.)		X						X
S. Skunk R. 32. Hwy. 21 (Keokuk Co.) to confluence with Indian Cr. (Jasper Co.)		X						
S. Skunk R. 33. At Oskaloosa						X		
S. Skunk R. 34. Confluence with Indian Creek (Jasper Co.) to Ames Water Works Dam (S36, T84N, R24W, Story Co.)			X					
South Skunk R. 35. Ames Waterworks Dam (S36, T84N, R24W, Story Co.) to North line S6, T85N, R23W, Story Co.	X	X						X
South Skunk R. 36. North line S6, T85N, R23W, Story Co. to confluence with D.D. No. 71 (S11, T86N, R24W, Hamilton Co.)			X					X

SKUNK MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES SKUNK R. AND ITS TRIBUTARIES	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Buckley Cr. 37. Mouth (S27, T77N, R17W, Mahaska Co.) to confluence with The Middle Br. Buckley Cr. (S9, T77N, R17W, Mahaska Co.)			X					
Cherry Cr. 38. Mouth (Jasper Co.) to confluence with Benjamin Cr. (S20, T80N, R19W, Jasper Co.)			X					
Benjamin Cr. 39. Mouth (Jasper Co.) to confluence with an unnamed tributary (NE 1/4, S21, T80N, R19W, Jasper Co.)			X					
Indian Cr. 40. Mouth (S32, T80N, R20W, Jasper Co.) to confluence with East and West Branch Indian Crs. (S16, T82N, R22W, Story Co.)			X					
Clear Cr. 41. Mouth (S2, T80N, R21W, Jasper Co.) to confluence with an unnamed tributary (S 1/2, SW 1/4, S28, T82N, R20W, Marshall Co.)			X					
W. Branch Indian Cr. 42. Mouth (S16, T82N, R22W, Story Co.) to confluence with an unnamed tributary (S1, T83N, R23W, Story Co.)			X					
E. Branch Indian Cr. 43. Mouth (S16, T82N, R22W, Story Co.) to confluence with an unnamed tributary (S34, T85N, R22W, Story Co.)			X					
Dye Cr. 44. Mouth (S14, T83N, R22W, Story Co. to confluence with unnamed tributary (NW 1/4, S7, T83N, R21W, Story Co.)			X					
Old South Skunk River Channel 45. East line S31, T81N, R22W, Polk Co. to South line S33/34, T81N, R22W, Polk Co.				X				
Ballard Cr. 46. Mouth (Story Co.) to confluence with an unnamed tributary (S15, T82N, R24W, Story Co.)			X					
Walnut Cr. 47. Mouth (S5, T82N, R23W, Story Co.) to confluence with an unnamed tributary (SE 1/4, S34, T83N, R24W, Story Co.)			X					
Squaw Cr. 48. Mouth (S12, T83N, R24W, Story Co.) to confluence with an unnamed tributary (NW 1/4, S9, T85N, R25W, Boone Co.)			X					
Bear Cr. 49. Mouth (Story Co.) to N. line of Sec. 32, T85N, R23W, Story Co.			X					
Long Dick Cr. 50. Mouth (S18, T85N, R23W, Story Co.) to bridge crossing (North line S34, T86N, R23W, Hamilton Co.)			X					
N. Skunk R. 51. Mouth (S5, T74N, R10W, Keokuk Co.) to confluence with Cedar Cr. (S15, T75N, R12W, Keokuk Co.)		X						X

IOWA-CEDAR RIVER BASIN

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for the Iowa-Cedar River Basin. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Abbe Cr. - 63	Flood Cr. - 104	Rock Cr. - 58
Asher Cr. - 187	Hartgrave Cr. - 126	Rock Cr. - 85
Bailey Cr. - 130	Holland Cr. - 93	Rock Cr. - 143
Baskins Run - 138	Honey Cr. - 150	Rock Cr. - 144
Bear Cr. - 75	Honey Cr. - 189	Rock Cr. - 145
Bear Cr. - 78a	Honey Cr. - 190	Rock Falls Cr. - 117
Bear Cr. - 192	Hoosier Cr. - 163	Rock Run Cr. - 60
Beaver Cr. - 95	Indian Cr. - 66	Rose Cr. - 118
Beaver Cr. - 96	Iowa R. - 20	Running Slough Drain - 10
Beaver Cr. - 106	Iowa R. - 21	S. Timber Cr. - 182
Beaver Cr. - 116	Iowa R. - 22	Salt Cr. - 172
Beaver Cr. - 142	Iowa R. - 23	School Cr. - 202
Beaver Cr. - 196	Iowa R. - 24	Sheldon Cr. - 203
Beaverdam Cr. - 133	Iowa R. - 25	Shell Rock R. - 101
Big Bear Cr. - 168	Iowa R. - 26	Shell Rock R. - 102
Big Cr. - 62	Iowa R. - 27	Shell Rock R. - 103
Big Hollow Cr. - 7	Iowa R. - 28	Simmons Cr. - 64
Black Hawk Cr. - 89	Iowa R. - 29	South Beaver Cr. - 97
Black Hawk Cr. - 90	Iowa R. - 30	South English R. - 154
Black Hawk Cr. - 91	Iowa Slough - 17	South Fork Iowa River - 193
Blue Cr. - 76	Iowa Slough - 16	South Fork Iowa River - 194
Boylan Cr. - 122	Knapp Cr. - 164	South Fork Iowa River - 195
Brush Cr. - 3	Knotty Cr. - 6	Spring Cr. - 4
Brush Cr. - 183	Lime Cr. - 79	Spring Cr. - 81
Buckeye Cr. - 170	Lime Cr. - 80	Spring Cr. - 113
Buffalo Cr. - 129	Linn Cr. - 185	Spring Cr. - 124
Burnett Cr. - 186	Little Bear Cr. - 169	Spring Cr. - 125
Burr Oak Cr. - 140	Little Cedar R. - 139	Spring Cr. - 146
Burr Oak Cr. - 141	Little Mosquito Cr. - 53	Squaw Cr. - 67
Calmus Cr. - 112	Long Cr. - 32	Squaw Cr. - 123
Cedar R. - 33	Luicks Cr. - 208	Stein Cr. - 176
Cedar R. - 34	Maynes Cr. - 121	Sugar Cr. - 54
Cedar R. - 35	Middle English R. - 156	Sugar Cr. - 55
Cedar R. - 36	Mill Cr. - 162	Timber Cr. - 181
Cedar R. - 37	Mill Race - 167	Tipton Cr. - 197
Cedar R. - 38	Miller Cr. - 87	Turtle Cr. - 147
Cedar R. - 39	Minerva Cr. - 188	Twelvemile Cr. - 85
Cedar R. - 40	Mississippi River - 1	Unnamed Cr. - 11
Cedar R. - 41	Mississippi River - 2	Unnamed Cr. - 12
Cedar R. - 42	Morgan Cr. - 71	Unnamed Cr. - 14
Cedar R. - 43	Mud Cr. - 56	Unnamed Cr. - 15
Cedar R. - 44	Mud Cr. - 70	Unnamed Cr. - 151
Cedar R. - 45	Mud Cr. - 77	Unnamed Cr. - 205
Clear Cr. - 61	Mud Cr. - 86	Unnamed Cr. - 134
Clear Cr. - 160	N. Beaver Cr. - 98	Unnamed Cr. - 207
Coldwater Cr. - 105	N. Timber Cr. - 184	Unnamed Cr. - 13
Cottonwood Drain - 8	North English R. - 155	W. Branch Beaverdam Cr. - 136
Cottonwood Drain - 9	North Fork Black Hawk Cr. - 92	W. Branch Wapsinoc Cr. - 49
D.D. 70 - 131	Old Mans Cr. - 159	W. Fk. Cedar R. - 99
Deep R. - 157	Otter Cr. - 31	W. Fk. Cedar R. - 100
Deer Cr. - 148	Otter Cr. - 72	W. Otter Cr. - 73
Deer Cr. - 179	Otter Cr. - 127	Walnut Cr. - 171
Dowd Cr. - 191	Otter Cr. - 128	Wapsinoc Cr. - 47
Drainage Ditch No. 3 - 206	Otter Cr. - 149	Wapsinoc Cr. - 48
Dry Cr. - 68	Otter Cr. - 177	West Branch Wapsinoc Cr. - 50
Dry Run - 94	Pike Cr. - 46	West Fork Iowa River - 209
Dugout Cr. - 158	Pike Run - 51	Wharam Cr. - 114
E. Branch Beaverdam Cr. - 135	Pike Run - 52	Willow Cr. - 111
E. Branch Iowa R. - 210	Pine Cr. - 198	Winans Cr. - 115
E. Branch Salt Creek - 175	Pine Cr. - 199	Winnebago R. - 108
E. Otter Cr. - 74	Pine Cr. - 200	Winnebago R. - 109
East Big Cr. - 65	Pine Cr. - 201	Winnebago R. - 110
East Branch Salt Cr. - 174	Prairie Cr. - 69	Winnebago R. - 107
Elk Cr. - 119	Pratt Cr. - 78	Wolf Cr. - 82
Elk Cr. - 120	Price Cr. - 165	Wolf Cr. - 83
Elk Run - 88	Price Cr. - 166	Ziegler Slough - 18
Elk Run - 204	Quarter Section Run - 137	Ziegler Slough - 19
English R. - 152	Rapid Cr. - 161	
English R. - 153	Raven Cr. - 180	
Flint Cr. - 5	Richland Cr. - 178	
	Rock Cr. - 57	

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
IOWA-CEDAR								
MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES								
Mississippi River								
1. Skunk R. to confluence with Iowa R.	X	X						
Mississippi River								
2. Burlington Municipal Water Works intakes						X		
SKUNK SLU (AKA BRUSH CR.) AND ITS TRIBUTARIES								
Brush Cr.								
3. Mouth (Des Moines Co.) to road crossing (S8, T69N, R3W, Des Moines Co.)			X					
SPRING CR. AND ITS TRIBUTARIES								
Spring Cr.								
4. Mouth (Des Moines Co.) to confluence with an unnamed tributary (SE 1/4, S3, T69N, R3W, Des Moines Co.)			X					
FLINT CR. AND ITS TRIBUTARIES								
Flint Cr.								
5. Mouth (Des Moines Co.) to confluence with an unnamed tributary (NW 1/4, S21, T71N, R4W, Des Moines Co.)			X					
Knotty Cr.								
6. Mouth (Des Moines Co.) to confluence with an unnamed tributary (NE 1/4, S1, T70N, R3W, Des Moines Co.)			X					
Big Hollow Cr.								
7. Mouth (Des Moines Co.) to confluence with an unnamed tributary (NE 1/4, S30, T71N, R3W, Des Moines Co.)			X					
COTTONWOOD DRAIN AND ITS TRIBUTARIES								
Cottonwood Drain								
8. Mouth (S6, T70N, R1W, Des Moines Co.) to confluence with an unnamed tributary (S13, T71N, R2W, Des Moines Co.)		X						
Cottonwood Drain								
9. Confluence with an unnamed tributary (S13, T71N, R2W, Des Moines Co.) to road crossing (S30, T2N, R1W, Des Moines Co.)			X					
Running Slough Drain								
10. Mouth (S31, T71N, R1W, Des Moines Co.) to confluence with an unnamed tributary (S33, T72N, R1W, Des Moines Co.)		X						
Unnamed Cr.								
11. Mouth (SW 1/4, S16, T71N, R1W, Des Moines Co.) to road crossing (E 1/2, NW 1/4, S10, T71N, R1W, Des Moines Co.)			X					
Unnamed Cr.								
12. Mouth (NE 1/4, S16, T71N, R1W, Des Moines Co.) to road crossing (W 1/2, NW 1/4, S10, T71N, R1W, Des Moines Co.)			X					
Unnamed Cr. (aka Ray Lake Drain)								
13. Mouth (S33, T72N, R1W, Des Moines Co.) to confluence with unnamed tributary (S29, T72N, R1W, Des Moines Co.)			X					
Unnamed Cr.								
14. Mouth (S13, T71N, R2W, Des Moines Co.) to Section 7/8 line, T71N, R1W, Des Moines Co.)			X					
Unnamed Cr.								
15. Mouth (NE 1/4, NW 1/4, S7, T71N, R1W, Des Moines Co.) to road crossing (N. line S5, T71N, R1W, Des Moines Co.)			X					

IOWA-CEDAR MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES IOWA SLOUGH AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Iowa Slough (aka Iowa Slough Lake)									
16.	Mouth (S3, T72N, R1W, Des Moines Co.) to South Line E1/2, S29, T73N, R1W, Lousia Co.				X				
Iowa Slough									
17.	South Line, S29, T73N, R1W, Lousia Co. to E/W road crossing E 1/2, S30, T73N, R1W, Lousia Co.			X					
Ziegler Slough									
18.	Mouth (S33, T73N, R1W, Lousia Co.) to confluence with unnamed tributary (S. line, S17, T73N, R1W, Lousia Co.)		X						
Ziegler Slough									
19.	Unnamed tributary (S. line, S17, T73N, R1W, Lousia Co.) to confluence with unnamed tributary (NW 1/4, S8, T73N, R1W, Lousia Co.)			X					
IOWA R. AND ITS TRIBUTARIES									
Iowa R.									
20.	Mouth (Lousia Co.) to Lousia County, Section 35, T74N, R3W, (south corporate limit, Wapello)	X	X						X
Iowa R.									
21.	South corporate limit, Wapello to confluence with Cedar River (Lousia County, Section 20, T75N, R4W)	X	X						
Iowa R.									
22.	Confluence with Cedar River to Johnson-Washington county line	X	X						X
Iowa R.									
23.	Johnson-Washington county line to Hwy. 149 (Iowa County, Section 35, T81N, R9W) (includes Coralville Reservoir)	X	X						
Iowa R.									
24.	University of Iowa Water Works intake						X		
Iowa R.									
25.	City of Iowa City Water Works intakes						X		
Iowa R.									
26.	Hwy. 149 to confluence with Asher Creek (Marshall County, Section 27, T84N, R18W) excluding all waters within the boundaries of the Meskwaki Settlement of the Sac Fox Tribe of the Mississippi	X	X						X
Iowa R.									
27.	Confluence with Asher Creek to Marshall-Hardin county line	X	X						
Iowa R.									
28.	Marshall-Hardin county line to Hardin County, Section 20, T89N, R20W, (east corporate limit, Iowa Falls)	X	X						X
Iowa R.									
29.	East corporate limit Iowa Falls to Hwy. 69 bridge (Section 30, T93N, R23W, Wright Co.)	X	X						
Iowa R.									
30.	Hwy. 69 bridge to confluence of E. Fk. Iowa R. and W. Fk. Iowa R. (Wright Co.)		X						

IOWA-CEDAR		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES									
IOWA R. BELOW CEDAR R. AND ITS TRIBUTARIES									
	Otter Cr.								
31.	Mouth (S18, T73N, R2W, Louisa Co.) to confluence with an unnamed tributary (S4, T73N, R3W, Louisa Co.)			X					
	Long Cr.								
32.	Mouth (S1, T74N, R4W, Louisa Co.) to confluence with South Fork Long Cr. (S26, T75N, R6W, Washington Co.)			X					
CEDAR R. AND ITS TRIBUTARIES									
	Cedar R.								
33.	Mouth (Louisa Co.) to Hwy. 30 (Linn County, Section 9, T82N, R6W)	X	X						X
	Cedar R.								
34.	Hwy. 30 to bridge crossing in LaPorte City (Section 19, T87N, R11W, Black Hawk Co.)	X	X						
	Cedar R.								
35.	Cedar Rapids Municipal Water Works intake						X		
	Cedar R.								
36.	Bridge crossing in LaPorte City to the dam at Cedar Falls		X						
	Cedar R.								
37.	Cedar Falls impoundment Dam to W. line of Section 2, T89N, R14W, Black Hawk Co.	X	X						
	Cedar R.								
38.	Cedar Falls impoundment to Black Hawk County, Section 34, T90N, R14W (confluence with Beaver Creek)		X						
	Cedar R.								
39.	Confluence with Beaver Creek to dam at Waverly		X						X
	Cedar R.								
40.	Waverly impoundment Dam to W. line of Section 35, T92N, R14W, Bremer Co.	X	X						X
	Cedar R.								
41.	Waverly impoundment to Chickasaw County, Section 29, T94N, R14W (south corporate limits, Nashua)	X	X						X
	Cedar R.								
42.	South corporate limits of Nashua to dam at Nashua		X						
	Cedar R.								
43.	Nashua impoundment Dam to Chickasaw-Floyd co. line	X	X						
	Cedar R.								
44.	Nashua impoundment to Charles City Dam #2		X						
	Cedar R.								
45.	Charles City impoundment Dam #2 to Iowa-Minnesota state line	X	X						
	Pike Cr.								
46.	Cone Lake	X	X						
	Wapsinonoc Cr.								
47.	Mouth (Muscatine Co.) to confluence with Big Slough (S2, T77N, R4W, Muscatine Co.)		X						
	Wapsinonoc Cr.								
48.	Confluence with Big Slough (Muscatine Co.) to confluence with the East Branch and Middle Branch Wapsinonoc Cr. (S6, T78N, R3W, Muscatine Co.)			X					

IOWA-CEDAR MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES CEDAR R. AND ITS TRIBUTARIES	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
W. Branch Wapsinoc Cr. 49. Mouth (Muscatine Co.) to confluence with an unnamed tributary (S4, T78N, R4W, Muscatine Co.)			X					
West Branch Wapsinoc Cr. 50. Confluence with an unnamed tributary (S4, T78N, R4W, Muscatine Co.) to confluence with an unnamed tributary (N 1/2, S32, T79N, R4W, Cedar Co.)			X					
Pike Run 51. Mouth (Muscatine Co.) to confluence with an unnamed tributary (NW 1/4, S9, T77N, R3W, Muscatine Co.)		X						
Pike Run 52. Confluence with an unnamed tributary (NW 1/4, S9, T77N, R3W, Muscatine Co.) to the road crossing at (SW 1/4, S34, T78N, R3W, Muscatine Co.)			X					
Little Mosquito Cr. 53. Mouth (S19, T78N, R2W, Muscatine Co.) to confluence with an unnamed tributary (S26, T78N, R2W, Muscatine Co.)			X					
Sugar Cr. 54. Mouth (Muscatine Co.) to confluence with Mud Cr. (Muscatine Co.)		X						
Sugar Cr. 55. Confluence with Mud Cr. (S10, T78N, R2W, Muscatine Co.) to confluence with an unnamed tributary (SW 1/4, S4, T80N, R2W, Cedar Co.)			X					
Mud Cr. 56. Confluence with Sugar Cr. (S10, T78N, R2W, Muscatine Co.) to confluence with an unnamed tributary (S5, T78N, R1E, Muscatine Co.)			X					
Rock Cr. 57. Mouth (S2, T79N, R3W, Cedar Co.) to confluence with unnamed tributary (SW 1/4, S11, T80N, R3W, Cedar Co.)		X						
Rock Cr. 58. Confluence with unnamed tributary (SW 1/4, S11, T80N, R3W, Cedar Co.) to the confluence with an unnamed tributary (center S1, T81N, R3W, Cedar Co.)			X					
Rock Run Cr. 60. Mouth (S28, T80N, R3W, Cedar Co.) to confluence with an unnamed tributary (S28, T81N, R3W, Cedar Co.)			X					
Clear Cr. 61. Mouth (S2, T81N, R5W, Johnson Co.) to confluence with an unnamed tributary (NW 1/4, NW 1/4, S28, T82N, R4W, Cedar Co.)			X					
Big Cr. 62. Mouth (S9, T82N, R6W, Linn Co.) to confluence with East Big Cr. (SE 1/4, S30, T84N, R5W, Linn Co.)			X					
Abbe Cr. 63. Mouth (S34, T83N, R6W, Linn Co.) to confluence with an unnamed tributary (S4, T82N, R5W, Linn Co.)			X					

IOWA-CEDAR MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES CEDAR R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
	Simmons Cr.								
64.	Mouth (S7, T83N, R6W, Linn Co.) to confluence with an unnamed tributary (S8, T83N, R5W, Linn Co.)			X					
	East Big Cr.								
65.	Mouth (S30, T84N, R5W, Linn Co.) to Hwy. 151 crossing (S27, T84N, R5W, Linn Co.)			X					
	Indian Cr.								
66.	Mouth (S30, T83N, R6W, Linn Co.) to confluence with an unnamed tributary (S20, T84N, R6W, Linn Co.)			X					
	Squaw Cr.								
67.	Mouth (S29, T83N, R6W, Linn Co.) to confluence with an unnamed tributary (S20, T83N, R6W, Linn Co.)			X					
	Dry Cr.								
68.	Mouth (S1, T83N, R7W, Linn Co.) to confluence with an unnamed tributary (S15, T84N, R7W, Linn Co.)			X					
	Prairie Cr.								
69.	Mouth (Linn Co.) to confluence with an unnamed tributary (SE 1/4 of the SW 1/4, S13, T83N, R12W, Benton Co.)			X					
	Mud Cr.								
70.	Mouth (S21, T82N, R9W, Benton Co.) to confluence with an unnamed tributary (E 1/2, S7, T82N, R9W, Benton Co.)			X					
	Morgan Cr.								
71.	Mouth (S14, T83N, R8W, Linn Co.) to confluence with an unnamed tributary (SW 1/4, S22, T83N, R8W, Linn Co.)			X					
	Otter Cr.								
72.	Mouth (S35, T84N, R8W, Linn Co.) to confluence with East & West Otter Creeks (S7, T84N, R7W, Linn Co.)			X					
	W. Otter Cr.								
73.	Mouth (S7, T84N, R7W, Linn Co.) to confluence with unnamed perennial tributary entering along the left descending bank in Section 6, T85N, R7W, Linn Co.			X					
	E. Otter Cr.								
74.	Mouth (S7, T84N, R7W, Linn Co.) to confluence with unnamed tributary (S16, T85N, R7W, Linn Co.)			X					
	Bear Cr.								
75.	Mouth (S21, T84N, R8W, Linn Co.) to confluence with Wildcat Cr. (S5/8 line, T84N, R9W, Benton Co.)			X					
	Blue Cr.								
76.	Mouth (S18, T85N, R8W, Linn Co.) to confluence with East Br. Blue Cr. (S7, T85N, R8W, Linn Co.)			X					
	Mud Cr.								
77.	Mouth (Benton Co.) to confluence with an unnamed tributary (S15, T84N, R11W, Benton Co.)			X					
	Pratt Cr.								
78.	Mouth (S6, T85N, R11W, Benton Co.) to confluence with an unnamed tributary (NE 1/4, S7, T85N, R11W, Benton Co.)			X					
	Bear Cr.								
78a.	Mouth (S21, T86N, R10W, Benton Co.) to confluence with an unnamed tributary (SW 1/4, S34, T88N, R9W, Buchanan Co.)			X					

IOWA-CEDAR MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES CEDAR R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
	Lime Cr.								
79.	Mouth (Benton Co.) to confluence with an unnamed tributary (Sec. 1, T87N, R10W, Buchanan Co.)		X						
	Lime Cr.								
80.	Confluence with an unnamed tributary (Sec. 1, T87N, R10W, Buchanan Co.) to confluence with an unnamed tributary (SW 1/4, Sec. 11, T88N, R10W, Buchanan Co.)			X					
	Spring Cr.								
81.	Mouth (S27, T87N, R11W, Black Hawk Co.) to confluence with East Branch Spring Cr. (S11, T87N, R11W, Black Hawk Co.)			X					
	Wolf Cr.								
82.	Mouth (Black Hawk Co.) to confluence with Twelvemile Cr. (Tama Co.)		X						
	Wolf Cr.								
83.	Mouth of Twelvemile Cr. (S19, T86N, R13W, Tama Co.) to confluence with an unnamed tributary (S25, T86N, R18W, Grundy Co.)			X					
	Twelvemile Cr.								
84.	Mouth (S19, T86N, R13W, Tama Co.) to confluence with Given Cr. (S24, T86N, R15W, Tama Co.)			X					
	Rock Cr.								
85.	Mouth (S23, T86N, R14W, Tama Co.) to confluence with an unnamed tributary (S2, T86N, R14W, Tama Co.)			X					
	Mud Cr.								
86.	Mouth (S13, T87N, R12W, Black Hawk Co.) to upper end of ponded area (S14, T87N, R12W, Black Hawk Co.)			X					
	Miller Cr.								
87.	Mouth (S35, T88N, R12W, Black Hawk Co.) to confluence with an unnamed tributary (NW 1/4, S7, T87N, R12W, Black Hawk Co.)			X					
	Elk Run								
88.	Mouth (S6, T88N, R12W, Black Hawk Co.) to confluence with an unnamed tributary (S27, T89N, R12W, Black Hawk Co.)			X					
	Black Hawk Cr.								
89.	Mouth (Black Hawk Co.) to Hwy 58 (E. half of Section 27, T88N, R14W, Black Hawk Co.)	X	X						
	Black Hawk Cr.								
90.	Hwy. 58 to confluence with N. Black Hawk Cr. (Grundy Co.)		X						
	Black Hawk Cr.								
91.	Confluence with North Black Hawk Cr. (S1, T87N, R15W, Grundy Co.) to confluence with an unnamed tributary (S12, T87N, R18W, Grundy Co.)			X					
	North Fork Black Hawk Cr.								
92.	Mouth (S1, T87N, R15W, Black Hawk Co.) to confluence with an unnamed tributary (S8, T88N, R15W, Grundy Co.)			X					
	Holland Cr.								
93.	Mouth (Grundy Co.) to confluence with an unnamed tributary (S29, T88N, R17W, Grundy Co.)			X					

IOWA-CEDAR MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES CEDAR R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
	Dry Run								
94.	Mouth (S18, T89N, R13W, Black Hawk Co.) to confluence with an unnamed tributary (S23, T89N, R14W, Black Hawk Co.)	X		X					
	Beaver Cr.								
95.	Mouth (S34, T90N, R14W, Black Hawk Co.) to confluence with S. Beaver Cr. (S25, T90N, R17W, Butler Co.)		X						
	Beaver Cr.								
96.	Confluence with S. Beaver Cr. (S25, T90N, R17W, Butler Co.) to confluence with an unnamed tributary (SE 1/4, S29, T90N, R19W, Franklin Co.)			X					
	South Beaver Cr.								
97.	Mouth (S25, T90N, R17W, Butler Co.) to confluence with an unnamed tributary (NE 1/4, NE 1/4, S9, T88N, R18W, Grundy Co.)			X					
	N. Beaver Cr.								
98.	Mouth (S23, T90N, R18W, Butler Co.) to confluence with Fockler Cr. (S18, T90N, R18W, Butler Co.)			X					
	W. Fk. Cedar R.								
99.	Mouth (Black Hawk Co.) to confluence with Maynes Creek (Butler County, S7, T91N, R17W)		X						X
	W. Fk. Cedar R.								
100.	Confluence with Maynes Cr. (Butler Co.) to juncture of Beaverdam and Bailey Creeks (Franklin Co.)		X						
	Shell Rock R.								
101.	Mouth (Black Hawk Co.) to Butler County, Section 12, T91N, R15W, (south corporate limits, Shell Rock)		X						X
	Shell Rock R.								
102.	South corporate limit of Shell Rock to confluence with the Winnebago R.		X						
	Shell Rock R.								
103.	Winnebago R. to Iowa-Minnesota state line	X	X						
	Flood Cr.								
104.	Mouth (S27, T93N, R16W, Butler Co.) to confluence with Beaver Cr. (S36, T95N, R17W, Butler Co.)			X					
	Coldwater Cr.								
105.	Mouth (S29, T93N, R16W, Butler Co.) to confluence with an unnamed tributary (S26, T94N, R19W, Cerro Gordo Co.)			X					
	Beaver Cr.								
106.	Mouth (SW 1/4, S26, T95N, R18W, Floyd Co.) to confluence with L. Beaver Cr. (center S21, T95N, R18W, Floyd Co.)			X					
	Winnebago R. (aka Lime Cr.)								
107.	Mouth (Floyd Co.) to dam at Fertile (S34, T98N, R22W, Worth Co.)		X						
	Winnebago R.								
108.	Mill Pond at Fertile	X	X						
	Winnebago R.								
109.	Upper extent of Mill Pond at Fertile to confluence with Pike Run (S25, T99N, R24W, Winnebago Co.)		X						

IOWA-CEDAR MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES CEDAR R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Winnebago R.									
110.	Confluence with Pike Run (S25, T99N, R24W, Winnebago Co.) to state line			X					
Willow Cr.									
111.	Mouth (S3, T96N, R20W, Cerro Gordo Co.) to confluence with Clear Cr. (S16, T96N, R21W, Cerro Gordo Co.)			X					
Calmus Cr.									
112.	Mouth (S34, T97N, R20W, Cerro Gordo Co.) to Cerro Gordo Co. Rd. S34 (W. line, S30, T97N, R20W, Cerro Gordo Co.)			X					
Spring Cr.									
113.	Mouth (S28, T97N, R20W, Cerro Gordo Co.) to confluence with Blair Cr. (S9, T97N, R20W, Cerro Gordo Co.)			X					
Wharam Cr.									
114.	Mouth (S29, T97N, R20W, Cerro Gordo Co.) to confluence with an unnamed tributary (S7, T97N, R20W, Cerro Gordo Co.)			X					
Winans Cr.									
115.	Mouth (S36, T98N, R22W, Worth Co.) to N/S road crossing S 1/2, S25, T98N, R22W, Worth Co.			X					
Beaver Cr.									
116.	Mouth (S34, T98N, R22W, Worth Co.) to confluence with D.D. No. 54 (S25, T98N, R23W, Winnebago Co.)			X					
Rock Falls Cr.									
117.	Mouth (S16, T97N, R19W, Cerro Gordo Co.) to confluence with an unnamed tributary (S4, T97N, R19W, Cerro Gordo Co.)			X					
Rose Cr. (aka Plymouth or Beaver Cr.)									
118.	Mouth (NW 1/4, S8, T97N, R19W, Cerro Gordo Co.) to confluence with an unnamed tributary (S35, T98N, R20W, Worth Co.)			X					
Elk Cr.									
119.	Mouth (S27, T99N, R20W, Worth Co.) to east line S13, T99N, R22W, Worth Co.			X					
Elk Cr.									
120.	East line S13, T99N, R22W, Worth Co. to confluence with unnamed tributary (S4, T99N, R22W, Worth Co.)				X				
Maynes Cr.									
121.	Mouth (S7, T91N, R17W, Butler Co.) to confluence with an unnamed tributary (S22, T91N, R21W, Franklin Co.)			X					
Boylan Cr.									
122.	Mouth (S1, T91N, R18W, Butler Co.) to confluence with unnamed tributary (NE 1/4, S31, T93N, R18W, Butler Co.)			X					
Squaw Cr.									
123.	Mouth (Franklin Co.) to confluence with an unnamed tributary (S29, T92N, R20W, Franklin Co.)			X					
Spring Cr.									
124.	Mouth (Franklin Co.) to bridge crossing at (S21/ 22, T92N, R21W, Franklin Co.) [excluding Beeds L.]			X					

IOWA-CEDAR MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES CEDAR R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
	Spring Cr.								
125.	Beeds Lake Dam to W. line of S19, T92N, R20W, Franklin Co.	X	X						
	Hartgrave Cr.								
126.	Mouth (S34, T92N, R18W, Butler Co.) to confluence with Squaw Cr. (S28, T92N, R18W, Franklin Co.)				X				
	Otter Cr.								
127.	Confluence with Buffalo Cr. (S5, T92N, R20W, Franklin Co.) to confluence with D.D. No. 55 (S24, T93N, R21W, Franklin Co.)				X				
	Otter Cr.								
128.	Mouth (S28, T92N, R19W, Franklin Co.) to confluence with Buffalo Cr. (S5, T92N, R20W, Franklin Co.)				X				
	Buffalo Cr.								
129.	Mouth (S5, T92N, R20W, Franklin Co.) to N/S road crossing, West line, S10, T92N, R21W, Franklin Co.				X				
	Bailey Cr.								
130.	Mouth (Franklin Co.) to confluence with an unnamed tributary (S16, T94N, R22W, Cerro Gordo Co.)				X				
	D.D. 70								
131.	Mouth (Cerro Gordo Co.) to bridge crossing at (S13/14, T94N, R22W, Cerro Gordo Co.)				X				
	Beaverdam Cr.								
133.	Mouth (confluence with Bailey Cr. (S19, T93N, R19W, Franklin Co.) to confluence with an unnamed tributary (S12, T95N, R22W, Cerro Gordo Co.)				X				
	Unnamed Cr. (aka D.D. 6)								
134.	Mouth (S29, T91N, R20W, Franklin Co.) to confluence with an unnamed tributary (S36, T91N, R20W, Franklin Co.)				X				
	E. Branch Beaverdam Cr.								
135.	Mouth (Cerro Gordo Co.) to confluence with an unnamed tributary (S4, T94N, R20W, Cerro Gordo Co.)				X				
	W. Branch Beaverdam Cr.								
136.	Mouth (Cerro Gordo Co.) to confluence with an unnamed tributary (S9, T94N, R21W, Cerro Gordo Co.)				X				
	Quarter Section Run								
137.	Mouth (S19, T91N, R13W, Bremer Co.) to confluence with an unnamed tributary (NE 1/4, NW 1/4, S26, T92N, R13W, Bremer Co.)				X				
	Baskins Run								
138.	Mouth (S28, T91N, R13W, Bremer Co.) to confluence with an unnamed tributary (S30, T92N, R13W, Bremer Co.)				X				
	Little Cedar R.								
139.	Mouth (Chickasaw Co.) to Iowa-Minnesota state line		X						
	Burr Oak Cr.								
140.	Mouth (S12, T98N, R16W, Mitchell Co.) to west line, S10, T98N, R16W, Mitchell Co.				X				

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
IOWA-CEDAR								
MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES								
CEDAR R. AND ITS TRIBUTARIES								
Burr Oak Cr.								
141. Mitchell Co. Rd. T46 to N. line of S5, T98N, R16W, Mitchell Co.					X			X
Beaver Cr.								
142. Mouth (Mitchell Co.) to Mitchell Co. Rd. A31 (N. line of S19, T99N, R15W, Mitchell Co.)					X			X
Rock Cr.								
143. Mouth (Floyd Co.) to confluence with Goose Cr. (S35, T98N, R18W, Mitchell Co.)		X						
Rock Cr.								
144. Confluence with Goose Cr. (Mitchell Co.) to Hwy. 9 (N. line of S26, T98N, R18W, Mitchell Co.)					X			X
Rock Cr.								
145. Hwy. 9 to confluence with an unnamed tributary (S22, T98N, R18W, Mitchell Co.)			X					
Spring Cr.								
146. Mouth (Mitchell Co.) to N. line of S8, T97N, R16W, Mitchell Co.					X		X	
Turtle Cr.								
147. Mouth (Mitchell Co.) to E. line of Section 7, T99, R17W, Mitchell Co.					X		X	
Deer Cr.								
148. Mouth (S23, T99N, R18W, Mitchell Co.) to confluence with an unnamed tributary (E. line, S28, T100N, R19W, Worth Co.)			X					
Otter Cr.								
149. Mouth (S21, T100N, R18W, Mitchell Co.) to Iowa-Minnesota state line			X					
HONEY CR. AND ITS TRIBUTARIES								
Honey Cr.								
150. Mouth (S1, T75N, R5W, Louisa Co.) to road crossing (S25, T76N, R5W, Louisa Co.)			X					
UNNAMED CR. AND ITS TRIBUTARIES								
Unnamed Cr.								
151. Mouth (S16, T76N, R5W, Louisa Co.) to east/west road crossing (S9, T76N, R5W, Louisa Co.)			X					
IOWA R. ABOVE CEDAR R. AND ITS TRIBUTARIES								
English R.								
152. Mouth (Washington Co.) to confluence with Ramsey Cr. (S14, T77N, R8W, Washington Co.)		X						X
English R.								
153. Confluence with Ramsey Cr. (S14, T77N, R8W, Washington Co.) to confluence with North & South English R. (S6, T77N, R9W, Washington Co.)		X						
South English R.								
154. Mouth (S6, T77N, R9W, Washington Co.) to confluence with an unnamed tributary (E 1/2, S9, T77N, R13W, Keokuk Co.)			X					
North English R.								
155. Mouth (S6, T77N, R17W, Washington Co.) to confluence with an unnamed tributary (SE 1/4, S1, T79N, R16W, Poweshiek Co.)			X					

IOWA-CEDAR MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES IOWA R. ABOVE CEDAR R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Middle English R.									
156.	Mouth (S20, T78N, R10W, Iowa Co.) to confluence with an unnamed tributary (E 1/8, S24, T78N, R12W, Iowa Co.)			X					
Deep R.									
157.	Mouth (S4, T78N, R12W, Iowa Co.) to confluence with an unnamed tributary (SE 1/4, S34, T79N, R14W, Poweshiek Co.)			X					
Dugout Cr.									
158.	Mouth (S15, T79N, R14W, Poweshiek Co.) to confluence with an unnamed tributary (SE 1/4, T78N, R14W, Poweshiek Co.)			X					
Old Mans Cr.									
159.	Mouth (S27, T78N, R9W, Johnson Co.) to confluence with Hog Run (S6/12 line, T79N, R10W, Iowa Co.)			X					
Clear Cr.									
160.	Mouth (Johnson Co.) to confluence with an unnamed tributary (S22, T80N, R9W, Iowa Co.)			X					
Rapid Cr.									
161.	Mouth (S34, T80N, R6W, Johnson Co.) to confluence with an unnamed tributary (E 1/2, S20, T80N, R5W, Johnson Co.)			X					
Mill Cr.									
162.	Mouth (Johnson Co.) to confluence with an unnamed tributary (S23, T81N, R6W, Johnson Co.)			X					
Hoosier Cr.									
163.	Mouth (S17, T81N, R6W, Johnson Co.) to confluence with South Hoosier Cr. (S25, T82N, R7W, Linn Co.)			X					
Knapp Cr.									
164.	Mouth (S34, T81N, R8W, Johnson Co.) to confluence with an unnamed tributary (S16, T81N, R8W, Johnson Co.)			X					
Price Cr.									
165.	Mouth (S36, T81N, R9W, Iowa Co.) to mouth of Mill Race (S26, T81N, R9W, Iowa Co.)		X						
Price Cr.									
166.	Mouth of Mill Race (S26, T81N, R9W, Iowa Co.) confluence with an unnamed tributary (NW 1/4, S8, T81N, R9W, Iowa Co.)			X					
Mill Race									
167.	Upstream beginning (S27, T81N, R10W, Iowa Co.) to end (S26, T81N, R9W, Iowa Co.)		X						
Big Bear Cr.									
168.	Mouth (S24, T81N, R11W, Iowa Co.) to confluence with unnamed tributary (W. line, S21, T81N, R16W, Poweshiek Co.)			X					
Little Bear Cr.									
169.	Mouth (Poweshiek Co.) to confluence with an unnamed tributary (SW 1/4, Sec. 13, T80N, R16W, Poweshiek Co.)			X					
Buckeye Cr.									
170.	Mouth (S11, T81N, R12W, Iowa Co.) to confluence with unnamed tributary (SE 1/4, S22, T82N, R12W, Benton Co.)			X					

IOWA-CEDAR	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES								
IOWA R. ABOVE CEDAR R. AND ITS TRIBUTARIES								
Walnut Cr.								
171. Mouth (S31, T82N, R12W, Benton Co.) to confluence with an unnamed tributary (NW 1/4, S24, T81N, R15W, Poweshiek Co.)			X					
Salt Cr.								
172. Mouth (S31, T82N, R12W, Benton Co.) to confluence with unnamed tributary (S28, T85N, R14W, Tama Co.)			X					
East Branch Salt Cr.								
174. Mouth (S34, T84N, R13W, Tama Co.) to confluence with Stein Cr. (S26, T84N, R13W, Tama Co.)			X					
E. Branch Salt Creek								
175. Confluence with Stein Cr. (S26, T84N, R13W, Tama Co. to bridge crossing at (N. line of S3, T84N, R13W, Tama Co.)			X					
Stein Cr.								
176. Mouth (S26, T84N, R13W, Tama Co.) to confluence with an unnamed tributary (NE 1/4, S17, T84N, R12W, Benton Co.)			X					
Otter Cr.								
177. Mouth (Tama Co.) to the water control structure for Otter Creek Marsh (S12, T82N, R14W, Tama Co.)			X					
Richland Cr.								
178. Mouth (S13, T82N, R14W, Tama Co.) to confluence with Abes Fork (Center, S20, T82N, R15W, Tama Co.)			X					
Deer Cr.								
179. Mouth (S34, T83N, R15W, Tama Co.) to confluence with an unnamed tributary (NE 1/4, SE 1/4, S23, T84N, R16W, Tama Co.)			X					
Raven Cr.								
180. Mouth (S25, T83N, R16W, Tama Co.) to West line S35, T83N, R16W, Tama Co.			X					
Timber Cr.								
181. Mouth (Marshall Co.) to confluence with N. Timber Cr. (S24, T83N, R18W, Marshall Co.)			X					
S. Timber Cr.								
182. Mouth (S17, T83N, R17W, Marshall Co.) to confluence with an unnamed tributary (S10, T82N, R18W, Marshall Co.)			X					
Brush Cr.								
183. Mouth (Marshall Co.) to confluence with an unnamed tributary (S16, T82N, R17W, Marshall Co.)			X					
N. Timber Cr.								
184. Mouth (S24, T83N, R18W, Marshall Co.) to confluence with an unnamed tributary (S23, T83N, R19W, Marshall Co.)			X					
Linn Cr.								
185. Mouth (S30, T84N, R17W, Marshall Co.) to confluence with an unnamed tributary (W1/2, NE 1/4, S5, T83N, R19W, Marshall Co.)			X					
Burnett Cr.								
186. Mouth (S24, T84N, R18W, Marshall Co.) to confluence with an unnamed tributary (SE 1/4, NW 1/4, S13, T84N, R18W, Marshall Co.)			X					

IOWA-CEDAR MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES IOWA R. ABOVE CEDAR R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Asher Cr.									
187.	Mouth (S27, T84N, R18W, Marshall Co.) to confluence with Chicken Cr. (NW 1/4, NE 1/4, S16, T84N, R18W, Marshall Co.)			X					
Minerva Cr.									
188.	Mouth (NW 1/4, S2, T84N, R19W, Marshall Co.) to confluence with an unnamed tributary (S33, T86N, R21W, Hardin Co.)			X					
Honey Cr.									
189.	Mouth (Marshall Co.) to confluence with an unnamed tributary (Sec. 15, T86N, R20W, Hardin Co.)			X					
Honey Cr.									
190.	Confluence with an unnamed tributary (S15, T86N, R20W, Hardin Co.) to confluence with D.D. No. 55 (S32, T87N, R21W, Hardin Co.)			X					
Dowd Cr.									
191.	Mouth (S2, T85N, R19W, Marshall Co.) to confluence with an unnamed tributary (S1, T85N, R19W, Marshall Co.)			X					
Bear Cr.									
192.	Mouth (S9, T86N, R19W, Hardin Co.) to confluence with an unnamed tributary (E 1/2, S3, T86N, R19W, Hardin Co.)			X					
South Fork Iowa River									
193.	Confluence with an unnamed tributary (S11, T88N, R22W, Hardin Co.) to confluence with an unnamed tributary (SE 1/4, S35, T90N, R23W, Wright Co.)			X					
South Fork Iowa River									
194.	Mouth (S4, T86N, R19W, Hardin Co.) to confluence with an unnamed tributary (W 1/2, S19, T88N, R21W, Hardin Co.)		X						
South Fork Iowa River									
195.	Confluence with an unnamed tributary (W 1/2, S19, T88N, R21W, Hardin Co.) to confluence with an unnamed tributary (S11, T88N, R22W, Hardin Co.)			X					
Beaver Cr.									
196.	Mouth (SE 1/4, S25, T87N, R19W, Hardin Co.) to confluence with S. Beaver Cr. (NE 1/4, S28, T88N, R20W, Hardin Co.)			X					
Tipton Cr.									
197.	Mouth (S21, T87N, R20W, Hardin Co.) to confluence with New York Branch (S28, T88N, R22W, Hardin Co.)			X					
Pine Cr.									
198.	Mouth (S8, T87N, R19W, Hardin Co.) to dam of Lower Pine Lake (S9, T87N, R19W, Hardin Co.)		X						
Pine Cr.									
199.	Lower Pine Lake	X	X						
Pine Cr.									
200.	Upper extent of Lower Pine Lake to dam of Upper Pine Lake (S4, T87N, R19W, Hardin Co.)		X						
Pine Cr.									
201.	Upper Pine Lake	X	X						

IOWA-CEDAR MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES IOWA R. ABOVE CEDAR R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
	School Cr.								
202.	Mouth (S28, T89N, R20W, Hardin Co.) to confluence with an unnamed tributary (S16, T89N, R20W, Hardin Co.)			X					
	Sheldon Cr.								
203.	Mouth (S19, T90N, R22W, Franklin Co.) to N/S road crossing bisecting N 1/2, S24, T90N, R23W, Wright Co.)			X					
	Elk Run								
204.	Mouth (S13, T89N, R21W, Hardin Co.) to confluence with an unnamed tributary (S2, T89N, R21W, Hardin Co.)			X					
	Unnamed Cr. (aka D.D. 32)								
205.	Mouth (SE 1/4, S30, T91N, R22W, Franklin Co.) to confluence with an unnamed tributary (NW 1/4, S29, T91N, R22W, Franklin Co.)			X					
	Drainage Ditch No. 3 (aka Wheeler Cr.)								
206.	Mouth (NW 1/4, SE 1/4, S10, T91N, R23W, Wright Co.) to confluence with D.D. No. 5 (W line, S20, T91, R23, Wright Co.)			X					
	Unnamed Cr. (aka Joint D.D. No.'s 7 & 146)								
207.	Mouth (N. line, S4, T91N, R23W, Wright Co.) to confluence with an unnamed tributary (aka Joint D.D. No.'s 4, 118) (SE 1/4, S28, T92N, R23W, Wright Co.)			X					
	Luicks Cr.								
208.	Mouth (S31, T93N, R23W, Wright Co.) to confluence with an unnamed tributary (aka Joint D.No.'s 3, 111) (NW 1/4, S3, T92N, R23W, Wright Co.)			X					
	West Fork Iowa River (aka West Branch Iowa R.)								
209.	Mouth (S19, T93N, R23W, Wright Co.) to confluence with D.D. No. 1 (S2, T95N, R25W, Hancock Co.)			X					
	E. Fork Iowa R. (aka East Branch Iowa R.)								
210.	Mouth (S19, T93N, R23W, Wright Co.) to confluence with an unnamed tributary (S27, T97N, R24W, Hancock Co.)			X					

NORTHEASTERN IOWA RIVER BASINS

Northeastern Iowa River Basins (Wapsipinicon River, Maquoketa River, North Fork Maquoketa River, Turkey River, Volga River, Yellow River, and Upper Iowa River Subbasins).

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for the Northeastern Iowa River Basins. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Ames Cr. - 19	Crane Cr. - 59	Little Turkey R. - 255
Barber Cr. - 22	Crane Cr. - 60	Little Turkey R. - 256
Baron Spring - 214	Crow Cr. - 9	Little Volga R. - 236
Bass Cr. - 257	Curran Branch - 105	Little Volga River - 237
Bass Cr. - 258	D. D. 12 - 27	Little Wapsipinicon R. - 52
Bear Cr. - 107	Deep Cr. - 80	Little Wapsipinicon R. - 53
Bear Cr. - 205	Deep Cr. - 81	Lost Cr. - 15
Bear Cr. - 206	Deep Cr. - 221	Lux Cr. - 144
Bear Cr. - 228	Dibble Cr. - 251	Lytle Cr. - 94
Bear Cr. - 229	Doe Cr. - 208	Lytle Cr. - 95
Bear Cr. - 307	Dousman Cr. - 278	Mad Cr. - 5
Bear Cr. - 308	Dry Branch - 254	Maquoketa R. - 72
Bear Cr. - 110	Dry Cr. - 43	Maquoketa R. - 73
Bear Cr. - 111	Dry Mill Cr. - 240	Maquoketa R. - 74
Beaver Cr. - 71	Dry Mill Cr. - 241	Maquoketa R. - 75
Beaver Cr. - 246	Dry Run - 327	Maquoketa R. - 76
Beaver Cr. - 341	Duck Cr. - 8	Maquoketa R. - 77
Beaver Cr. - 342	Duck Cr. - 8a	Maquoketa R. - 78
Beers Cr. - 112	Duck Cr. - 134	Maquoketa R. - 79
Bell Cr. - 250	Durion Cr. - 106	Martha Cr. - 336
Bloody Run - 154	E. Fk. Wapsipinicon R. - 56	Middle Bear Cr. - 311
Bloody Run - 273	E. Fk. Wapsipinicon R. - 57	Middle Fk. Catfish Cr. - 149
Bloody Run Cr. - 181	E. Pine Cr. - 334	Middle Fk. Little Maquok - 158
Bohemian Cr. - 261	East Branch Buffalo Cr. - 37	Middle Fk. Little Maquok - 159
Brophy Cr. - 16	East Branch Otter Cr. - 50	Mill Cr. - 29
Brophy Cr. - 17	Elk Cr. - 62	Mill Cr. - 65
Brownfield Cr. - 195	Elk Cr. - 190	Mill Cr. - 135
Bruce Cr. - 131	Elk R. - 191	Mill Cr. - 136
Brush Cr. - 83	Elk R. - 68	Mineral Cr. - 113
Brush Cr. - 84	Elk R. - 69	Miners Cr. - 266
Brush Cr. - 85	Ensign Cr. - 217	Miners Cr. - 267
Brush Cr. - 225	Farmers Cr. - 93	Mink Cr. - 222
Brush Cr. - 226	Fenichel Cr. - 130	Mink Cr. - 223
Brush Cr. - 227	Fitzgerald Cr. - 252	Minor Cr. - 338
Buck Cr. - 54	Fountain Spring Cr. - 197	Mississippi R. - 1
Buck Cr. - 118	French Cr. - 304	Mississippi R. - 2
Buck Cr. - 268	Granger Cr. - 148	Mossey Glen Cr. - 210
Buck Cr. - 269	Grannis Cr. - 230	Mud Cr. - 23
Buffalo Cr. - 31	Hainer Cr. - 86	Muscatine Slough - 3
Buffalo Cr. - 32	Harter Cr. - 44	N. Canoe Cr. - 319
Buffalo Cr. - 33	Harts Mill Cr. - 66	N. Bear Cr. - 310
Buffalo Cr. - 34	Hazelton Cr. - 51	N. Cedar Cr. - 271
Buncombe Cr. - 98	Heatons Cr. - 38	N. Fk. Maquoketa R. - 88
Calamus Cr. - 26	Hewett Ct. - 215	N. Fk. Maquoketa R. - 89
Canoe Cr. - 315	Hewitt Cr. - 108	N. Fk. Maquoketa R. - 90
Canoe Cr. - 316	Hickory Cr. - 109	Nagel Cr. - 218
Canoe Cr. - 317	Hickory Cr. - 281	Nichols Cr. - 339
Carlan Cr. - 185	Hickory Cr. - 282	Norfolk Cr. - 284
Catfish Cr. - 145	Hogans Br. - 165	North Branch Turkey River - 263
Catfish Cr. - 146	Hogans Br. - 166	North Branch Volga R. - 238
Catfish Cr. - 147	Honey Cr. - 126	North Fk. Catfish Cr. - 150
Cedar Cr. - 92	Honey Cr. - 209	North Fk. Little Maquoke - 157
Cherry Cr. - 18	Hunter Cr. - 49	North Fork Yellow River - 287
Chialk Cr. - 262	Irish Hollow Cr. - 303	Nutting Cr. - 253
Clear Cr. - 297	Johns Cr. - 104	Otter Cr. - 45
Clear Cr. - 305	Joles Cr. - 184	Otter Cr. - 46
Cline Branch - 100	Kitty Cr. - 115	Otter Cr. - 47
Cline Cr. - 116	Kleinlein Cr. - 213	Otter Cr. - 48
Cloie Br. - 155	Little Maquoketa R. - 152	Otter Cr. - 96
Cloie Br. - 156	Little Maquoketa R. - 153	Otter Cr. - 247
Coffins Cr. - 124	Little Mill Cr. - 137	Otter Cr. - 248
Coon Cr. - 320	Little Paint Cr. - 291	Ozark Spring Run - 101
Cota Cr. - 292	Little Turkey R. - 175	Paint Cr. - 288
Coulee Cr. - 235	Little Turkey R. - 176	Paint Cr. - 289
Cox Cr. - 211	Little Turkey R. - 177	Paint Cr. - 290
Cox Cr. - 212	Little Turkey R. - 178	Paint Cr. - 312
Crane Cr. - 55		

Patterson Cr. - 314	Spencer Cr. - 10	Unnamed Cr. - 249
Pecks Cr. - 183	Spring Br. - 61	Unnamed Cr. - 265
Penn Cr. - 121	Spring Br. - 122	Unnamed Cr. - 286
Pine Cr. - 6	Spruce Cr. - 141	Unnamed Cr. - 313
Pine Cr. - 7	Staff Cr. - 343	Unnamed Cr. - 340
Pine Cr. - 42	Steeles Br. - 193	Unnamed Cr. - 280
Pine Cr. - 194	Sugar Cr. - 82	Unnamed Cr. - 330
Pine Cr. - 318	Suttle Cr. - 279	Unnamed Cr. - 179
Pine Cr. - 333	Teeple Cr. - 285	Unnamed Cr. - 335
Pleasant Cr. - 132	Ten Mile Cr. - 329	Unnamed Cr. - 296
Pleasant Cr. - 133	Tete des Morts Cr. - 142	Unnamed Cr. - 162
Plum Cr. - 28	Tete des Morts Cr. - 143	Unnamed Cr. - 138
Plum Cr. - 58	Trout Cr. - 321	Unnamed Cr. - 139
Plum Cr. - 119	Trout Cr. - 322	Unnamed Cr. - 233
Plum Cr. - 120	Trout Cr. - 325	Unnamed Cr. - 272
Plum Cr. - 167	Trout Cr. - 324	Unnamed Stream - 326
Point Hollow Cr. - 180	Trout Run - 295	Upper Iowa R. - 298
Prairie Cr. - 87	Tuecke Hollow - 188	Upper Iowa R. - 299
Prairie Cr. - 99	Turkey R. - 168	Upper Iowa R. - 300
Prairie Cr. - 125	Turkey R. - 169	Upper Iowa R. - 301
Rabbit Cr. - 207	Turkey R. - 170	Upper Iowa R. - 302
Ram Hollow - 182	Turkey R. - 171	Village Cr. - 294
Roberts Cr. - 239	Turkey R. - 172	Volga R. - 201
Rock Cr. - 24	Turkey R. - 173	Volga R. - 202
Rock Cr. - 64	Turkey R. - 174	Volga R. - 203
Rogers Cr. - 259	Twin Springs Cr. - 328	Volga R. - 204
S. Br. Fountain Spring Cr. - 198	Twin Springs Cr. - 196	W. Br. S. Cedar Cr. - 189
S. Cedar Cr. - 186	Unnamed Cr. - 4	Walnut Cr. - 30
S. Cedar Cr. - 187	Unnamed Cr. - 41	Walton Cr. - 39
Sand Cr. - 40	Unnamed Cr. - 67	Wapsipinicon R. - 11
Sand Cr. - 123	Unnamed Cr. - 91	Wapsipinicon R. - 12
Sand Hagen Cr. - 128	Unnamed Cr. - 97	Wapsipinicon R. - 14
Schechtman Br. - 199	Unnamed Cr. - 114	Wapsipinicon R. - 13
Schechtman Br. - 200	Unnamed Cr. - 127	Waterloo Cr. - 309
Schramling Cr. - 70	Unnamed Cr. - 140	Watsons Cr. - 63
Silver Cr. - 20	Unnamed Cr. - 160	West Branch Buffalo Cr. - 36
Silver Cr. - 21	Unnamed Cr. - 161	West Branch Turkey River - 264
Silver Cr. - 35	Unnamed Cr. - 163	Wexford Cr. - 293
Silver Cr. - 117	Unnamed Cr. - 164	Whitewater Cr. - 102
Silver Cr. - 242	Unnamed Cr. - 216	Whitewater Cr. - 103
Silver Cr. - 306	Unnamed Cr. - 219	Williams Cr. - 283
Silver Cr. - 331	Unnamed Cr. - 224	Willow Cr. - 220
Silver Cr. - 332	Unnamed Cr. - 231	Winnebago Cr. - 302a
Silver Cr. - 337	Unnamed Cr. - 232	Wolf Cr. - 192
Smith Cr. - 323	Unnamed Cr. - 234	Wonder Cr. - 260
Sny Magill Cr. - 270	Unnamed Cr. - 243	Yankee Run - 25
South Fk. Catfish Cr. - 151	Unnamed Cr. - 244	Yellow R. - 274
South Fork Maquoketa R. - 129	Unnamed Cr. - 245	Yellow R. - 275
		Yellow R. - 276

NORTHEASTERN

MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES

- | | | | | | | | |
|---|---|---|--|--|--|---|--|
| Mississippi R. | | | | | | | |
| 1. Iowa R. to the Iowa-Minnesota state line | X | X | | | | | |
| Mississippi R. | | | | | | | |
| 2. Davenport Water Company Water Works intake | | | | | | X | |

MUSCATINE SLOUGH AND ITS TRIBUTARIES

- | | | | | | | | |
|--|--|---|---|--|--|--|--|
| Muscatine Slough | | | | | | | |
| 3. Mouth (S32, T75N, R2W, Louisa Co.) to confluence with unnamed tributary (E 1/2, S7, T76N, R2W, Muscatine Co.) | | X | | | | | |
| Unnamed Cr. | | | | | | | |
| 4. Mouth (S30, T75N, R2W, Louisa Co.) to confluence with unnamed tributary (N 1/2, S19, T75N, R2W, Louisa Co.) | | | X | | | | |

MAD CR. AND ITS TRIBUTARIES

- | | | | | | | | |
|--|--|--|---|--|--|--|--|
| Mad Cr. | | | | | | | |
| 5. Mouth (S36, T77N, R1W, Muscatine Co.) to confluence with an unnamed tributary (SE 1/4, S13, T77N, R2W, Muscatine Co.) | | | X | | | | |

A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
---	-------	-------	-------	-------	---	----	-----

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
NORTHEASTERN								
MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES								
PINE CR. AND ITS TRIBUTARIES								
Pine Cr.								
6. Mouth (S21, T77N, R1E, Muscatine Co.) to Old Pine Creek Mill (SE 1/4, S17, T77N, R1E, Muscatine Co.)		X						
Pine Cr.								
7. Old Pine Creek Mill (SE 1/4, S17, T77N, R1E, Muscatine Co.) to confluence with an unnamed tributary (S26, T78N, R1W, Muscatine Co.)			X					
DUCK CR. AND ITS TRIBUTARIES								
Duck Cr.								
8. Mouth (S27, T78N, R4E, Scott Co.) to Co. Rd. (Section 16-21, T78N, R3W, Scott. Co.)	X		X					
Duck Cr.								
8a. Co. Rd. (Section 16-21, T78N, R3W, Scott Co.) to confluence with unnamed tributary (SE 1/4, S14, T78N, R2E, Scott Co.)			X					
CROW CR. AND ITS TRIBUTARIES								
Crow Cr.								
9. Mouth (S24, T78N, R4E, Scott Co.) to confluence with unnamed tributary (W 1/2, S30, T79N, R4E, Scott Co.)			X					
SPENCER CR. AND ITS TRIBUTARIES								
Spencer Cr.								
10. Mouth (S18, T89N, R5E, Scott Co.) to confluence with unnamed tributary (S34/35 line, T79N, R4E, Scott Co.)			X					
WAPSIPINICON R. AND ITS TRIBUTARIES								
Wapsipinicon R.								
11. Mouth (Scott-Clinton Co. line) to Snyder Access	X	X						X
Wapsipinicon R.								
12. Snyder Access (Section 34, T93N, R12W, Bremer Co.) to confluence with Watsons Cr. (S25, T99N, R15W, Mitchell Co.)		X						
Wapsipinicon R.								
13. Confluence with Watsons Cr. (S25, T99N, R15W, Mitchell Co.) to town of McIntire			X					
Wapsipinicon R.								
14. Town of McIntire to N. line of Section 20, T100N, R15W, Mitchell Co.					X		X	
Lost Cr.								
15. Mouth (S15, T80N, R5E, Scott Co.) to confluence with an unnamed tributary (NW 1/4, S7, T79N, R5E, Scott Co.)			X					
Brophy Cr.								
16. Mouth (Clinton Co.) to confluence with Cherry Cr. (Clinton Co.)		X						
Brophy Cr.								
17. Confluence with Cherry Cr. (S17, T81N, R5E, Clinton Co.) to confluence with an unnamed tributary (S33/34 line, T82N, R5E, Clinton Co.)			X					
Cherry Cr.								
18. Mouth (S17, T81N, R5E, Clinton Co.) to confluence with an unnamed tributary (W 1/2, S36, T82N, R4E, Clinton Co.)			X					
Ames Cr.								
19. Mouth (S4, T80N, R4E, Clinton Co.) to confluence with an unnamed tributary (S16, T81N, R4E, ClintonCo.)			X					
Silver Cr.								
20. Mouth (Clinton Cr.) to confluence with Clear Cr. (Clinton Co.)		X						

NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES WAPSIPINICON R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
21.	Silver Cr. Confluence with Crystal Cr. (aka Clear Cr.) (Clinton Co.) to confluence with Nigger Cr. (aka Negro Cr.) (S27, T82N, R13W, Chickasaw Co.)			X					
22.	Barber Cr. Mouth (Clinton Co.) to bridge crossing (SW 1/4, Sec. 33, T81N, R3E, Clinton Co.)			X					
23.	Mud Cr. Mouth (S12, T80N, R2E, Scott Co.) to confluence with Hickory Cr. (S31, T80N, R2E, Scott Co.)			X					
24.	Rock Cr. Mouth (S35, T81N, R1E, Clinton Co.) to bridge crossing (S2/11 line, T80N, R1W, Cedar Co.)			X					
25.	Yankee Run Mouth (S23, T81N, R1E, Clinton Co.) to confluence with an unnamed tributary (S34, T82N, R1W, Cedar Co.)			X					
26.	Calamus Cr. Mouth (S13, T81N, R1E, Clinton Co.) to confluence with an unnamed tributary (S9, T81N, R2E, Clinton Co.)			X					
27.	D. D. 12 (aka Unnamed Cr.) Mouth (S13, T81N, R1E, Clinton Co.) to confluence with an unnamed tributary (S19, T82N, R2E, Clinton Co.)			X					
28.	Plum Cr. Mouth (S18, T82N, R1E, Clinton Co.) to confluence with an unnamed tributary (S13, T82N, R1W, Cedar Co.)			X					
29.	Mill Cr. Mouth (S28, T83N, R1W, Jones Co.) to confluence with an unnamed tributary (S14, T82N, R2W, Cedar Co.)			X					
30.	Walnut Cr. Mouth (S18, T83N, R2W, Jones Co.) to confluence with White Oak Creek (S19, T83N, R3W, Jones Co.)			X					
31.	Buffalo Cr. Mouth (Jones Co.) to the dam at Coggon (Linn Co.)		X						
32.	Buffalo Cr. Coggon Impoundment	X	X						
33.	Buffalo Cr. Upper extent of Coggon Impoundment to confluence with an unnamed tributary (N 1/2, S27, T88N, R7W, Buchanan Co.)		X						
34.	Buffalo Cr. Confluence with an unnamed tributary (N 1/2, S27, T88N, R7W, Buchanan Co.) to confluence with the East and West Branch Buffalo Creeks (S35, T90N, R8W, Buchanan Co.)			X					
35.	Silver Cr. Mouth (NE 1/4, S13, T87N, R7W, Buchanan Co.) to confluence with an unnamed tributary (NW 1/4, S5, T87N, R6W, Delaware Co.)			X					

NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES WAPSIPINICON R. AND ITS TRIBUTARIES	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
36. West Branch Buffalo Cr. Mouth (S35, T90N, R8W, Buchanan Co.) to confluence with an unnamed tributary (S9, T90N, R8W, Buchanan Co.)			X					
37. East Branch Buffalo Cr. Mouth (S35, T90N, R8W, Buchanan Co.) to confluence with an unnamed tributary (S34, T91N, R8W, Fayette Co.)			X					
38. Heatons Cr. Mouth (S12, T85N, R6W, Linn Co.) to confluence with an unnamed tributary (S1, T85N, R6W, Linn Co.)			X					
39. Walton Cr. Mouth (S20, T86N, R6W, Linn Co.) to confluence with an unnamed tributary (S 1/2, S1, T86N, R7W, Linn Co.)			X					
40. Sand Cr. Mouth (S14, T87N, R8W, Buchanan Co.) to confluence with an unnamed tributary (W 1/2, S15, T87N, R8W, Buchanan Co.)			X					
41. Unnamed Cr. Mouth (SE 1/4, S28, T88N, R8W, Buchanan Co.) to confluence with an unnamed tributary (SE 1/4, NW 1/4, S22, T88N, R8W, Buchanan Co.)			X					
42. Pine Cr. Mouth (S28, T88N, R8W, Buchanan Co.) to confluence with an unnamed tributary (NE 1/4, S20, T89N, R8W, Buchanan Co.)			X					
43. Dry Cr. Mouth (S21, T88N, R8W, Buchanan Co.) to confluence with an unnamed tributary (W 1/2, S15, T88N, R8W, Buchanan Co.)			X					
44. Harter Cr. Mouth (S27, T89N, R9W, Buchanan Co.) to confluence with an unnamed tributary (W 1/2, S23, T89N, R9W, Buchanan Co.)			X					
45. Otter Cr. Mouth (Buchanan Co.) to Dam at Lake Oelwein		X						
46. Otter Cr. Lake Oelwein to N. line of Section 33, T91N, R9W, Fayette Co.	X	X						
47. Otter Cr. N. line of Sec. 33, T91N, R9W, Fayette Co. to confluence with an unnamed tributary (Sec. 29, T91N, R9W, Fayette Co.)		X						
48. Otter Cr. Confluence with an unnamed tributary (Sec. 29, T91N, R9W, Fayette Co.) to confluence with an unnamed tributary (Sec. 18, T91N, R9W, Fayette Co.)			X					
49. Hunter Cr. Mouth (S6, T89N, R9W, Buchanan Co.) to confluence with an unnamed tributary (Center, S20, T90N, R9W, Buchanan Co.)			X					
50. East Branch Otter Cr. Mouth (S22, T90N, R9W, Buchanan Co.) to confluence with an unnamed tributary (NE 1/4, S14, T90N, R9W, Buchanan Co.)			X					

NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES WAPSIPINICON R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
51.	Hazelton Cr. Mouth (S9, T90N, R9W, Buchanan Co.) to confluence with an unnamed tributary (S2, T90N, R9W, Buchanan Co.)			X					
52.	Little Wapsipinicon R. Mouth (Buchanan Co.) to confluence with Buck Cr. (Buchanan Co.)		X						
53.	Little Wapsipinicon R. Confluence with Buck Cr. (S32, T90N, R10W, Buchanan Co.) to confluence with unnamed tributary (S13, T93N, R11W, Bremer Co.)			X					
54.	Buck Cr. Mouth (S32, T90N, R10W, Buchanan Co.) to confluence with unnamed tributary (S9, T92N, R11W, Bremer Co.)			X					
55.	Crane Cr. Mouth (S26, T90N, R11W, Black Hawk Co.) to confluence with unnamed tributary (S17, T92N, R12W, Bremer Co.)			X					
56.	E. Fk. Wapsipinicon R. Mouth (S34, T93N, R12W, Bremer Co.) to upper extent of Sweet Marsh (S26, T93N, R12W, Bremer Co.)				X				
57.	E. Fk. Wapsipinicon R. Upper extent of Sweet Marsh (S26, T93N, R12W, Bremer Co.) to confluence with unnamed tributary (S36, T96N, R13W, Chickasaw Co.)			X					
58.	Plum Cr. Mouth (S15, T95N, R12W, Chickasaw Co.) to confluence with an unnamed tributary (S3, T95N, R12W, Chickasaw Co.)			X					
59.	Crane Cr. Mouth (S31, T95N, R9W, Fayette Co.) to confluence with Spring Cr. (S17, T97N, R12W, Howard Co.)		X						
60.	Crane Cr. Confluence with Spring Cr. (S17, T97N, R12W, Howard Co.) to confluence with an unnamed tributary (S7, T99N, R13W, Howard Co.)			X					
61.	Spring Br. Mouth (S3, T94N, R13W, Chickasaw Co.) to N. line of Sec. 35, T95N, R13W, Chickasaw Co.			X					
62.	Elk Cr. Mouth (Sec. 1, T96N, R14W, Chickasaw Co.) to confluence with an unnamed tributary (SW 1/4, Sec. 20, T97N, R13W, Chickasaw Co.)			X					
63.	Watsons Cr. Mouth (S25, T99N, R15W, Mitchell Co.) to confluence with an unnamed tributary (S30, T99N, R14W, Howard Co.)			X					
64.	ROCK CR. AND ITS TRIBUTARIES Rock Cr. Mouth (S31, T81N, R6E, Clinton Co.) to confluence with an unnamed tributary (S23, T81N, R5E, Clinton Co.)			X					

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
NORTHEASTERN								
MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES								
MILL CR. AND ITS TRIBUTARIES								
65.			X					
Mill Cr. Mouth (Clinton Co.) to confluence with an unnamed tributary (Sec. 26, T82N, R6E, Clinton Co.)								
66.			X					
Harts Mill Cr. Mouth (S15, T81N, R6E, Clinton Co.) to confluence with Little Mill Creek (S8, T81N, R6E, Clinton Co.)								
UNNAMED CR. AND ITS TRIBUTARIES								
67.			X					
Unnamed Cr. (aka Deer Cr.) Mouth (S17, T82N, R7E, Clinton Co.) to confluence with an unnamed tributary (SW 1/4, S18, T82N, R7E, Clinton Co.)								
ELK R. AND ITS TRIBUTARIES								
68.		X						
Elk R. Mouth (Clinton Co.) to confluence with N. Br. Elk R. (Clinton Co.)								
69.			X					
Elk R. Confluence with N. Br. Elk R. (S10, T83N, R6E, Clinton Co.) to confluence with an unnamed tributary (S32, T84N, R6E, Jackson Co.)								
70.			X					
Schramling Cr. Mouth (S7, T83N, R7E, Clinton Co.) to confluence with an unnamed tributary (NW 1/4, S6, T83N, R7E, Clinton Co.)								
BEAVER CR. AND ITS TRIBUTARIES								
71.			X					
Beaver Cr. Mouth (S6, T84N, R7E, Jackson Co.) to confluence with an unnamed tributary (S3, T84N, R6E, Jackson Co.)								
MAQUOKETA R. AND ITS TRIBUTARIES								
72.	X	X						
Maquoketa R. Mouth (Jackson Co.) to confluence with Deep Cr. (Jackson Co., Section 18, T84N, R5E)								
73.	X	X						X
Maquoketa R. Confluence with Deep Creek to confluence with Plum Creek (Delaware Co., Section 11, T87N, R4W)								
74.	X	X						
Maquoketa R. Confluence with Plum Creek to Quaker Mills Dam (Delaware County, Section 19, T89N, R5W)								
75.	X	X						
Maquoketa R. Quaker Mills Impoundment								
76.			X					
Maquoketa R. Quaker Mills Impoundment to Forestville Dam at Backbone Lake								
77.	X	X						
Maquoketa R. Backbone Lake Dam to boundry of Backbone State Park								
78.					X		X	
Maquoketa R. Mouth of S. Fk. Maquoketa R. (S16, T90N, R6W, Delaware Co.) to Hwy. 3 (N. line of Section 24, T91N, R7W, Fayette Co.)								
79.			X					
Maquoketa R. Hwy. 3 crossing (N. line, S24, T91N, R7W, Fayette Co.) to confluence with an unnamed tributary (S11, T91N, R7W, Fayette Co.)								

NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES MAQUOKETA R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
80.	Deep Cr. Mouth (Jackson Co.) to confluence with Bear Cr. (S8, T23N, R5E, Clinton Co.)		X						
81.	Deep Cr. Confluence with Bear Cr. (S8, T83N, R5E, Clinton Co.) to confluence with Williams Cr. (S33, T83N, R4E, Clinton Co.)			X					
82.	Sugar Cr. Mouth (S30, T84N, R5E, Jackson Co.) to confluence with an unnamed tributary (S5, T83N, R4E, Clinton Co.)			X					
83.	Brush Cr. Mouth (Jackson Co.) to N. line of Section 23, T85N, R3E, Jackson Co.		X						
84.	Brush Cr. N. line of Section 23, T85N, R3E to N. line of Section 1, T85N, R3E, Jackson Co.					X		X	
85.	Brush Cr. N. line of Section 1, T85N, R3E, Jackson Co. to confluence with an unnamed tributary (second upstream tributary, SE 1/4, S26, T86N, R3E, Jackson Co.)			X					
86.	Hainer Cr. Mouth (S15, T84N, R3E, Jackson Co.) to confluence with unnamed tributary (S22, T84N, R3E, Jackson Co.)			X					
87.	Prairie Cr. Mouth (S17, T84N, R3E, Jackson Co.) to confluence with an unnamed tributary (S2, T83N, R2E, Jackson Co.)			X					
88.	N. Fk. Maquoketa R. Mouth (Jackson Co.) to confluence with White Water Cr. (Jones Co., Section 10, T86N, R1W)		X						X
89.	N. Fk. Maquoketa R. Confluence with White Water Cr. to confluence with Bear Cr. (Dubuque Co.)		X						
90.	N. Fk. Maquoketa R. Confluence with Bear Cr. (S31, T89N, R2W, Dubuque Co. to confluence with an unnamed tributary (S18, T90N, R1W, Dubuque Co.)			X					
91.	Unnamed Cr. Mouth (S12, T84N, R2E, Jackson Co.) to confluence with unnamed tributary (S12, T84N, R2E, Jackson Co.)			X					
92.	Cedar Cr. Mouth (S30, T85N, R3E, Jackson Co.) to E. line of Section 29, T85N, R3E, Jackson Co.)					X			X
93.	Farmers Cr. Mouth (S24, T85N, R2E, Jackson Co.) to confluence with an unnamed tributary (W 1/2, NW 1/4, S8, T86N, R3E, Jackson Co.)			X					
94.	Lytle Cr. Mouth (Jackson Co.) to confluence with Buncombe Cr. (Dubuque Co.)		X						

NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES MAQUOKETA R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Lytle Cr.									
95.	Confluence with Buncombe Cr. (S19, T87N, R2E, Dubuque Co.) to confluence with an unnamed tributary (N 1/2, S4, T87N, R2E, Dubuque Co.)			X					
Otter Cr.									
96.	Mouth (S21, T86N, R2E, Jackson Co.) to confluence with an unnamed tributary (S36, T87N, R2E, Dubuque Co.)			X					
Unnamed Cr.									
97.	Mouth (S7, T86N, R2E, Jackson Co.) to W. line of Section 11, T86N, R1E, Jackson Co.					X			X
Buncombe Cr.									
98.	Mouth (S19, T87N, R2E, Dubuque Co.) to confluence with an unnamed tributary (S10/11 line, T87N, R2E)			X					
Prairie Cr.									
99.	Mouth (S24, T87N, R1E, Dubuque Co.) to confluence with unnamed tributary (SE 1/4, S22, T87N, R1E, Dubuque Co.)			X					
Cline Branch									
100.	Mouth (S7, T85N, R2E, Jackson Co.) to confluence with an unnamed tributary (S1, T85N, R1E, Jackson Co.)			X					
Ozark Spring Run									
101.	Mouth (S5, T85N, R1E, Jackson Co.) to spring source in center of S32, T86N, R1E, Jackson Co.					X			X
Whitewater Cr.									
102.	Mouth (S10, T86N, R1W, Jones Co.) to confluence with Curran Branch (S12, T87N, R1W, Dubuque Co.)		X						
Whitewater Cr.									
103.	Confluence with Curran Branch to confluence with an unnamed tributary (S18, T88N, R1E, Dubuque Co.)			X					
Johns Cr.									
104.	Mouth (S18, T88N, R1W, Dubuque Co.) to confluence with Bakers Cr. (S36, T88N, R2W, Dubuque Co.)			X					
Curran Branch									
105.	Mouth (S12, T87N, R1W, Dubuque Co.) to confluence with an unnamed tributary (S26/35 line, T88N, R1W, Dubuque Co.)			X					
Durion Cr.									
106.	Mouth (S36, T88N, R3W, Delaware Co.) to confluence with an unnamed tributary (S20, T88N, R2W, Dubuque Co.)			X					
Bear Cr.									
107.	Mouth (S31, T89N, R2W, Dubuque Co.) to confluence with an unnamed tributary (NW 1/4, S2, T89N, R3W, Delaware Co.)			X					
Hewitt Cr.									
108.	Mouth (S 29/30 line, T89N, R2W, Dubuque Co.) to confluence with Hickory Cr. (S21, T89N, R2W, Dubuque Co.)			X					
Hickory Cr.									
109.	Mouth (S21, T89N, R2W, Dubuque Co.) to confluence with an unnamed tributary (SE 1/4, S14, T89N, R2W)			X					

NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES MAQUOKETA R. AND ITS TRIBUTARIES	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Bear Cr., (aka Big Bear Cr.) 110. Mouth (Jackson Co.) to confluence with Beers Cr. (Jackson Co.)		X						
Bear Cr., (aka Big Bear Cr.) 111. Confluence with Beers Cr. (S22/23 line, T84N, R1E, Jackson Co.) to confluence with an unnamed tributary (W 1/2, S28, T84N, R2W, Jones Co.)			X					
Beers Cr. 112. Mouth (S22/23 line, T84N, R1E, Jackson Co.) to confluence with an unnamed tributary (S9, T84N, R1W, Jones Co.)			X					
Mineral Cr. 113. Mouth (S32, T85N, R1E, Jackson Co.) to confluence with an unnamed tributary (S35, T85N, R2W, Jones Co.)			X					
Unnamed Cr. 114. Mouth (S30, T86N, R2W, Jones Co.) to confluence with an unnamed tributary (S19, T86N, R2W, Jones Co.)			X					
Kitty Cr. 115. Mouth (S22, T86N, R3W, Jones Co.) to confluence with an unnamed tributary (SE 1/4, S27, T86N, R3W, Jones Co.)			X					
Cline Cr. 116. Mouth (S16, T86N, R3W, Jones Co.) to confluence with an unnamed tributary (SW 1/4, S34, T87N, R3W, Delaware Co.)			X					
Silver Cr. 117. Mouth (S8, T86N, R3W, Jones Co.) to confluence with an unnamed tributary (S10, T86N, R4W, Jones Co.)			X					
Buck Cr. 118. Mouth (S11, T87N, R4W, Delaware Co.) to confluence with Golden Branch (S11, T87N, R5W, Delaware Co.)			X					
Plum Cr. 119. Mouth (Delaware Co.) to confluence with unnamed tributary (E 1/2, S24, T89N, R4W, Delaware Co.)		X						
Plum Cr. 120. Confluence with an unnamed tributary (S24, T89N, R4W, Delaware Co.) to confluence with an unnamed tributary (S8, T89N, R4W, Delaware Co.)			X					
Penn Cr. 121. Mouth (S18, T88N, R3W, Delaware Co.) to confluence with unnamed tributary (S11, T88N, R4W, Delaware Co.)			X					
Spring Br. 122. Mouth (S10, T88N, R5W, Delaware Co.) to spring source (Section 35, T89N, R5W, Delaware Co.)					X		X	
Sand Cr. 123. Mouth (S9, T88N, R5W, Delaware Co.) to confluence with Todds Cr. (S8, T88N, R5W, Delaware Co.)			X					
Coffins Cr. 124. Mouth (S19, T89N, R5W, Delaware Co.) to confluence with Prairie Cr. (S29, T89N, R6W, Delaware Co.)			X					

NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES MAQUOKETA R. AND ITS TRIBUTARIES	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Prairie Cr. 125. Mouth (S29, T89N, R6W, Buchanan Co.) to confluence with an unnamed tributary (SW 1/4, NW 1/4, S22, T89N, R7W, Buchanan Co.)			X					
Honey Cr. 126. Mouth (S19, T89N, R5W, Delaware Co.) to confluence with Rutherford Branch (S26, T90N, R5W, Delaware Co.)			X					
Unnamed Cr. 127. Mouth (NW 1/4, SW 1/4, S1, T89N, R6W, Delaware Co.) to confluence with an unnamed tributary (S30, T90N, R5W, Delaware Co.)			X					
Sand Hagen Cr. 128. Mouth (S34, T90N, R6W, Delaware Co.) to confluence with an unnamed tributary (S29, T90N, R6W, Delaware Co.)			X					
South Fork Maquoketa R. 129. Mouth (S16, T90N, R6W, Delaware Co.) to confluence with an unnamed tributary (NE 1/4, SW 1/4, S30, T91N, R7W, Fayette Co.)			X					
Fenchel Cr. 130. Mouth (S5, T90N, R6W, Delaware Co.) to Richmond Springs (center of S4, T90N, R6W, Delaware Co.)					X		X	
Bruce Cr. 131. Mouth (S19/30 line, T91N, R6W, Clayton Co.) to confluence with an unnamed tributary (S27, T91N, R7W, Fayette Co.)			X					
PLEASANT CR. AND ITS TRIBUTARIES								
Pleasant Cr. 132. Mouth (S33, T86N, R5E, Jackson Co.) to W. line of Section 11, T85N, R4E, Jackson Co.			X					
Pleasant Cr. 133. W. line of Section 11, T85N, R4E to W. line of Section 15, T85N, R4E, Jackson Co.					X			X
DUCK CR. AND ITS TRIBUTARIES								
Duck Cr. 134. Mouth (S29, T86N, R5E, Jackson Co.) to confluence with an unnamed tributary (Center, S25, T86N, R4E, Jackson Co.)			X					
MILL CR. (AKA BIG MILL CR.) AND ITS TRIBUTARIES								
Mill Cr. (aka Big Mill Cr.) 135. Mouth (S29, T86N, R5E, Jackson Co.) to confluence with Little Mill Cr. (S13, T86N, R4E, Jackson Co.)		X						
Mill Cr. (aka Big Mill Cr.) 136. Confluence with Little Mill Cr. to confluence with Unnamed Cr. (Section 1, T86N, R3E, Jackson Co.)					X		X	
Little Mill Cr. 137. Mouth (Jackson Co.) to W. line of Section 29, T86N, R4E, Jackson Co.					X		X	
Unnamed Cr. (aka S. Fk. Big Mill) 138. Mouth (Section 8, T86N, R4E, Jackson Co.) to west line of Section 17, T86N, R4E, Jackson Co.					X		X	
Unnamed Cr. (aka Storybook Hollow) 139. Mouth (Section 1, T86N, R4E, Jackson Co.) to S. line of Section 12, T86N, R3E, Jackson Co.					X		X	

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
NORTHEASTERN								
MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES								
MILL CR. (AKA BIG MILL CR.) AND ITS TRIBUTARIES								
Unnamed Cr.								
140.					X		X	
Mouth (Section 1, T86N, R3E, Jackson Co.) to W. line of Section 1, T86N, R3E, Jackson Co.								
SPRUCE CR. AND ITS TRIBUTARIES								
Spruce Cr.								
141.			X					
Mouth (S36, T87N, R4E, Jackson Co.) to confluence with an unnamed tributary (SE 1/4, S33, T87N, R4E, Jackson Co.)								
TETE DES MORTS CR. AND ITS TRIBUTARIES								
Tete des Morts Cr. (aka Tete des Morts R.)								
142.		X						
Mouth (Dubuque Co.) to confluence with Lux Creek (S7, T87N, R4E, Jackson Co.)								
Tete des Morts Cr. (aka Tete des Morts R.)								
143.			X					
Confluence with Lux Creek (S7, T87N, R4E, Jackson Co.) to confluence with an unnamed tributary (SW 1/4, NE 1/4, S32, T88N, R3E, Dubuque Co.)								
Lux Cr.								
144.			X					
Mouth (S7, T87N, R4E, Jackson Co.) to confluence with an unnamed tributary (S35, T88N, R3E, Dubuque Co.)								
CATFISH CR. AND ITS TRIBUTARIES								
Catfish Cr.								
145.		X						
Mouth (Dubuque Co.) to confluence with South Fk. Catfish Cr. (Dubuque Co.)								
Catfish Cr.								
146.			X					
Confluence with South Fk. Catfish Cr. (Dubuque Co.) to South line (S9, T88N, R2E, Dubuque Co.)								
Catfish Cr.								
147.					X			X
S. line of Section 9, T88N, R2E, to W. line of Section 30, T88N, R2E, Dubuque Co.								
Granger Cr.								
148.			X					
Mouth (Dubuque Co.) to county road bridge crossing (S24, T88N, R2E, Dubuque Co.)								
Middle Fk. Catfish Cr. (aka N. Fk. Catfish Cr.)								
149.			X					
Mouth (S1, T88N, R2E, Dubuque Co.) to west line of Section 30, T89N, R2E, Dubuque Co.								
North Fk. Catfish Cr.								
150.			X					
Mouth (S35, T89N, R2E, Dubuque Co.) to Hwy. 20 bridge crossing (S27, T89N, R2E, Dubuque Co.)								
South Fk. Catfish Cr.								
151.			X					
Mouth (S2, T88N, R2E, Dubuque Co.) to confluence with an unnamed tributary (SW 1/4, S3, T88N, R1E)								
LITTLE MAQUOKETA R. AND ITS TRIBUTARIES								
Little Maquoketa R.								
152.		X						
Mouth (Dubuque Co.) to confluence with Hogans Br. (S36, T89N, R1W, Dubuque Co.)								
Little Maquoketa R.								
153.					X			X
Hogans Br. to N. line of Section 5, T88N, R1W, Dubuque Co.								
Bloody Run								
154.					X			X
Mouth (S4, T90N, R2E, Dubuque Co.) to W. line of Section 21, T90W, R2E, Dubuque Co.								
Cloie Br.								
155.					X			X
Mouth (S5, T89N, R2E, Dubuque Co.) to W. line of Section 5, T89N, R2E, Dubuque Co.								

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
NORTHEASTERN								
MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES								
LITTLE MAQUOKETA R. AND ITS TRIBUTARIES								
Cloie Br.								
156. West line Section 5, T89N, R2E, Dubuque Co. to confluence with an unnamed tributary in S18, T89N, R2E, Dubuque Co.			X					
North Fk. Little Maquoketa R.								
157. Mouth (S31, T90N, R2E, Dubuque Co.) to W. line S24, T90N, R1W, Dubuque Co.			X					
Middle Fk. Little Maquoketa R.								
158. Mouth (S35, T90N, R1E, Dubuque Co.) to W. line S31, T90N, R1E, Dubuque Co.			X					
Middle Fk. Little Maquoketa R. (aka Bankston Cr.)								
159. W. line of Section 31, T90N, R1E to N. line of Section 33, T90N, R1W, Dubuque Co.					X		X	
Unnamed Cr.								
160. Mouth (S2, T89N, R1W, Dubuque Co.) to confluence with unnamed tributary (S11, T89N, R1W, Dubuque Co.)			X					
Unnamed Cr.								
161. Mouth (S34, T90N, R1W, Dubuque Co.) to confluence with unnamed tributary (SE 1/4, S5, T89N, R1W, Dubuque Co.)			X					
Unnamed Cr. (aka Haberkorn Cr.)								
162. Mouth (S27, T90N, R1E, Dubuque Co.) to confluence with an unnamed tributary (NE1/4, S15, T90N, R1E, Dubuque Co.)			X					
Unnamed Cr.								
163. Mouth (S29, T89N, R1E, Dubuque Co.) to confluence with unnamed tributary (NE 1/4, S24, T89N, R1W, Dubuque Co.)			X					
Unnamed Cr.								
164. Mouth (NE 1/4, S36, T89N, R1W, Dubuque Co.) to W. Line of S25, T89N, R1W, Dubuque Co.			X					
Hogans Br.								
165. Mouth (S35, T89N, R1W, Dubuque Co.) to W. line of Section 9, T88N, R1W, Dubuque Co.					X			X
Hogans Br.								
166. West line Section 9, T88N, R1W, Dubuque Co. to county road bridge crossing (W. line of S5, T88N, R1W)			X					
PLUM CR. AND ITS TRIBUTARIES								
Plum Cr.								
167. Mouth (S23, T91N, R1W, Clayton Co.) to confluence with an unnamed tributary (S26, T91N, R1W, Clayton Co.)			X					
TURKEY R. AND ITS TRIBUTARIES								
Turkey R.								
168. Mouth (Clayton Co.) to confluence with the Volga R. (Section 26, T92N, R4W, Clayton Co.)		X						
Turkey R.								
169. Confluence with the Volga R. to W. line of Section 9, T93N, R5W, Clayton Co. (two stream miles downstream from Big Springs Trout Hatchery)	X	X					X	
Turkey R.								
170. Two stream miles downstream from Big Springs Trout Hatchery to Big Springs Trout Hatchery (S31, T94N, R5W, Clayton Co.)	X				X		X	

NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES TURKEY R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Turkey R. 171. Big Springs Trout Hatchery to bridge crossing in Elgin (Section 13, T94N, R7W, Fayette Co.)		X	X					X	
Turkey R. 172. Bridge crossing in Elgin to Vernon Springs (road crossing S34, T99N, R11W, Howard Co.)			X					X	
Turkey R. 173. Vernon Springs (road crossing, S34, T99N, R11W, Howard Co.) to confluence with North Branch Turkey R. (S31, T99N, R11W, Howard Co.)			X						
Turkey R. 174. Confluence with North Branch Turkey R. to confluence with South Branch Turkey R. (S2, T98N, R12W, Howard Co.)				X					
Little Turkey R. 175. Mouth (S10, T91N, R2W, Clayton Co.) to confluence with White Pine Hollow (S31, T91N, R2W, Clayton Co.)			X						
Little Turkey R. 176. Confluence with White Pine Hollow (S31, T91N, R2W, Clayton Co.) to Clayton-Delaware co. line				X					
Little Turkey R. 177. Clayton-Delaware Co. Line to S. line of Section 11, T90N, R3W, Delaware Co.						X		X	
Little Turkey R. 178. S. line S11, T90N, R3W, Delaware Co. to confluence with an unnamed tributary (S 1/2, S15, T90N, R3W, Delaware Co.)				X					
Unnamed Cr. (aka Cherry Valley Cr.) 179. Mouth (S16, T91N, R2W, Clayton Co.) to confluence with unnamed tributary (aka Hog Hollow) (S22, T91N, R2W, Clayton Co.)				X					
Point Hollow Cr. (aka White Pine Cr.) 180. Mouth (S31, T91N, R2W, Clayton Co.) to spring source (S8, T90N, R2W, Dubuque Co.)						X			X
Bloody Run Cr. (aka Grimes Hollow) 181. Mouth (S36, T91N, R3W, Clayton Co.) to spring source (S3, T90N, R3W, Delaware Co.)						X			X
Ram Hollow 182. Mouth (S11, T90N, R3W, Clayton Co.) to spring source (S10, T90N, R3W, Delaware Co.)						X		X	
Pecks Cr. 183. Mouth (Clayton Co.) to S. line of Section 15, T91N, R3W, Clayton Co.						X			X
Joles Cr. 184. Mouth (S1, T91N, R3W, Clayton Co.) to confluence with an unnamed tributary (N 1/2, SW 1/4, S23, T92N, R3W, Clayton Co.)				X					
Carlan Cr. 185. Mouth (S2, T91N, R3W, Clayton Co.) to confluence with an unnamed tributary (S10, T91N, R3W, Clayton Co.)				X					
S. Cedar Cr. (aka Cedar Cr.) 186. Mouth (S33, T92N, R3W, Clayton Co.) to S. line (S6, T91N, R3W, Clayton Co.)				X					

NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES TURKEY R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
S. Cedar Cr. (aka Cedar Cr.)									
187.	N. line of S7, T92N, R3W, Clayton Co. to N. line of S30, T93N, R3W, Clayton Co.					X			X
Tuecke Hollow									
188.	Mouth (S20, T92N, R3W, Clayton Co.) to confluence with an unnamed tributary (S9, T92N, R3W, Clayton Co.)			X					
W. Br. S. Cedar Cr.									
189.	Mouth (S31, T93N, R3W, Clayton Co.) to confluence with an unnamed tributary (S23, T93N, R4W, Clayton Co.)			X					
Elk Cr.									
190.	Mouth to confluence with Steeles Br. (Clayton Co.)		X						
Elk Cr.									
191.	Confluence with Steeles Branch (S26, T91N, R4W, Clayton Co.) to confluence with an unnamed tributary (NE 1/4, S13, T90N, R4W, Delaware Co.)			X					
Wolf Cr.									
192.	Mouth (S2/3 line, T91N, R4W, Clayton Co.) to confluence with an unnamed tributary (S10, T91N, R4W, Clayton Co.)			X					
Steeles Br.									
193.	Mouth (S26, T91N, R4W, Clayton Co.) to W. line of Section 5, T90N, R4W, Delaware Co.					X			X
Pine Cr.									
194.	Mouth (S26, T91N, R4W, Clayton Co.) to confluence with Brownfield Cr. (S25, T91N, R4W, Clayton Co.)					X			X
Brownfield Cr.									
195.	Mouth (Clayton Co.) to spring source (S31, T91N, R3W, Clayton Co.)					X			X
Twin Springs Cr.									
196.	Mouth (S2, T90N, R4W, Delaware Co.) to spring source (S12, T90N, R4W, Delaware Co.)					X			X
Fountain Spring Cr. (aka Odell Br.)									
197.	Mouth (SE 1/4 of S10, T90N, R4W, Delaware Co.) to W. line of NW 1/4, S16, T90N, R4W, Delaware Co.					X	X		
S. Br. Fountain Spring Cr.									
198.	Mouth (SW 1/4 of S10, T90N, R4W, Delaware Co.) to W. line of SW 1/4, S16, T90N, R4W, Delaware Co.					X			X
Schechtman Br.									
199.	Mouth (Delaware Co.) to S. line of Section 14, T90N, R4W, Delaware Co.					X			X
Schechtman Br.									
200.	S. line of Section 14, T90N, R4W, Delaware Co. to confluence with an unnamed tributary (S23, T90N, R4W, Delaware Co.)			X					
Volga R.									
201.	Mouth (Clayton Co.) to bridge crossing in Volga, (Section 3-10, T92N, R6W, Clayton Co.)	X	X						X
Volga R.									
202.	Bridge crossing in Volga to E. Corporate limit, Fayette, (NE 1/4 of S28, T93N, R8W, Fayette Co.)		X						X

NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES TURKEY R. AND ITS TRIBUTARIES	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Volga R. 203. East corporate limit, Fayette, to confluence with Little Volga R. (Fayette Co.)		X						
Volga R. 204. Confluence with L. Volga R. (S2, T92N, R9W, Fayette Co.) to confluence with an unnamed tributary (SE 1/4, S24, T93N, R10W, Fayette Co.)			X					
Bear Cr. 205. Mouth (S34, T92N, R4W, Clayton Co.) to S. line of Section 18, T91N, R4W, Clayton Co.			X					
Bear Cr. 206. S. line of Section 18, T91N, R4W to W. line of Section 23, T91N, R5W, Clayton Co.					X			X
Rabbit Cr. 207. Mouth (S17, T91N, R4W, Clayton Co.) to confluence with an unnamed tributary (NE 1/4, S31, T91N, R4W, Clayton Co.)			X					
Doe Cr. 208. Mouth (S30, T92N, R4W, Clayton Co.) to confluence with an unnamed tributary (S1, T91N, R5W, Clayton Co.)			X					
Honey Cr. 209. Mouth (S25, T92N, R5W, Clayton Co.) to confluence with an unnamed tributary (second upstream trib. S5, T91N, R5W, Clayton Co.)			X					
Mossey Glen Cr. 210. Mouth (S3, T91N, R5W, Clayton Co.) to S. line of Section 10, T91N, R5W, Clayton Co.					X			X
Cox Cr. (aka Alderson Hollow) 211. Mouth (S21, T92N, R5W, Clayton Co.) to confluence with Kleinlein Cr. (S36, T92N, R6W, Clayton Co.)			X					
Cox Cr. (aka Alderson Hollow) 212. Kleinlein Cr. to S. line of Section 12, T91N, R6W, Clayton Co.					X			X
Kleinlein Cr. (aka Spring Cr.) 213. Mouth (Clayton Co.) to spring source (S10, T91N, R6W, Clayton Co.)					X			X
Baron Spring 214. Mouth (S2, T91N, R6W, Clayton Co.) to spring source (S4, T91N, R6W, Clayton Co.)					X		X	
Hewett Cr. 215. Mouth (Clayton Co.) to S. line of Section 29, T92N, R6W, Clayton Co.					X			X
Unnamed Cr. 216. Mouth (S28, T92N, R6W, Clayton Co.) to spring in Section 34, T92N, R6W, Clayton Co.			X					
Ensign Cr. (aka Ensign Hollow) 217. Mouth (Section 28, T92N, R6W, Clayton Co.) to spring source (S29, T92N, R6W, Clayton Co.)					X		X	
Nagel Cr. 218. Mouth (S10, T92N, R6W, Clayton Co.) to confluence with an unnamed tributary (W 1/2, S17, T92N, R6W, Clayton Co.)			X					

NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES TURKEY R. AND ITS TRIBUTARIES	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Coulee Cr. 235. Mouth (S31, T93N, R8W, Fayette Co.) to confluence with an unnamed tributary (S12, T93N, R9W, Fayette Co.)			X					
Little Volga R. 236. Mouth (Fayette Co.) to Hwy. 150 bridge crossing (Fayette Co.)		X						
Little Volga River 237. Hwy. 150 bridge (S14/23 line, T92N, R9W, Fayette Co.) to confluence with an unnamed tributary (NE 1/4, S36, T92N, R9W, Fayette Co.)			X					
North Branch Volga R. 238. Mouth (S33, T93N, R9W, Fayette Co.) to confluence with an unnamed tributary (S8, T93N, R9W, Fayette Co.)			X					
Roberts Cr. 239. Mouth (Clayton Co.) to confluence with an unnamed tributary (S8, T95N, R6W, Clayton Co.)			X					
Dry Mill Cr. 240. Mouth (S25, T94N, R5W, Clayton Co.) to W. line of Section 9, T93N, R4W, Clayton Co.					X			X
Dry Mill Cr. 241. W. line of S9, T93N, R4W, Clayton Co. to confluence with an unnamed tributary (SE 1/4, S5, T93N, R4W, Clayton Co.)			X					
Silver Cr. 242. Mouth (S16, T94N, R5W, Clayton Co.) to confluence with an unnamed tributary (S32, T95N, R5W, Clayton Co.)			X					
Unnamed Cr. 243. Mouth (SW 1/4 of NW 1/4 of S26, T93N, R5W, Clayton Co.) to confluence with an unnamed tributary (S28, T93N, R5W, Clayton Co.)			X					
Unnamed Cr. 244. Mouth (S31, T94N, R5W, Clayton Co.) to confluence with an unnamed tributary (NE 1/4, S30, T94N, R5W, Clayton Co.)			X					
Unnamed Cr. 245. Mouth (S27, T94N, R6W, Clayton Co.) to confluence with an unnamed tributary (S 1/2, SW 1/4, S31, T94N, R6W, Clayton Co.)			X					
Beaver Cr. 246. Mouth (S19, T94N, R6W, Clayton Co.) to dam in S34, T94N, R7W, Fayette Co.)			X					
Otter Cr. 247. Mouth (Fayette Co.) to confluence with Unnamed Cr. (aka Glovers Cr., S22, T94N, R8W, Fayette Co.)					X		X	
Otter Cr. 248. Confluence with an unnamed tributary (aka Glovers Cr., S22, T94N, R8W, Fayette Co.) to confluence with an unnamed tributary (NW 1/4, S17, T94N, R8W, Fayette Co.)			X					
Unnamed Cr. 249. Mouth to W. line of S15, T94N, R8W, Fayette Co.					X		X	

NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES TURKEY R. AND ITS TRIBUTARIES	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Bell Cr. 250. Mouth (S10, T94N, R7W, Fayette Co.) to W. line of Section 8, T94N, R7W, Fayette Co.					X			X
Dibble Cr. 251. Mouth (S34, T95N, R7W, Fayette Co.) to confluence with an unnamed tributary (S27, T95N, R7W, Fayette Co.)			X					
Fitzgerald Cr. 252. Mouth (S28, T95N, R7W, Fayette Co.) to confluence with an unnamed tributary (S9, T95N, R7W, Fayette Co.)			X					
Nutting Cr. 253. Mouth (S19, T95N, R7W, Fayette Co.) to confluence with an unnamed tributary (S2, T95N, R8W, Fayette Co.)			X					
Dry Branch 254. Mouth (S15, T95N, R8W, Fayette Co.) to confluence with an unnamed tributary (N 1/2, S4, T95N, R8W, Fayette Co.)			X					
Little Turkey R. 255. Mouth (Fayette Co.) to confluence with unnamed tributary (SE 1/4, S14, T96N, R11W, Chickasaw Co.)		X						
Little Turkey R. 256. Confluence with unnamed tributary (SE 1/4, S14, T96N, R11W, Chickasaw Co.) to confluence with unnamed tributary (S12, T97N, R12W, Howard Co.)			X					
Bass Cr. 257. West line S3, T95N, R9W, Fayette Co. to confluence with unnamed tributary (NE 1/4, S4, T95N, R9W, Fayette Co.)			X					
Bass Cr. 258. Mouth (S3, T95N, R9W, Fayette Co.) to W. line of Section 3, T95N, R9W, Fayette Co.					X			X
Rogers Cr. 259. Mouth (Winneshiek Co.) to confluence with Goddard Cr. and Krumm Cr.			X					
Wonder Cr. 260. Mouth (S19, T97N, R9W, Winneshiek Co.) to confluence with an unnamed tributary (S24, T97N, R10W, Winneshiek Co.)			X					
Bohemian Cr. 261. Mouth (Winneshiek Co.) to Howard Co. Rd. V58 (W. line of Section 2, T97N, R11W, Howard Co.)					X		X	
Chialk Cr. 262. Mouth (Section 1, T98N, R11W, Howard Co.) to N. line of Section 36, T99N, R11W, Howard Co.					X			X
North Branch Turkey River 263. Mouth (S31, T99N, R11W, Howard Co.) to confluence with an unnamed tributary (mouth located on left descending bank SE 1/4, S14, T99N, R12W, Howard Co.)			X					
West Branch Turkey River 264. Mouth (S25, T99N, R12W, Howard Co.) to confluence with an unnamed tributary (E 1/2, NW 1/4, S26, T99N, R12W, Howard Co.)			X					

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
NORTHEASTERN								
MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES								
TURKEY R. AND ITS TRIBUTARIES								
Unnamed Cr.								
265.			X					
Mouth (located on left descending bank SE 1/4, S14, T99N, R12W, Howard Co.) to confluence with an unnamed tributary (SW 1/4, S12, T99N, R12W, Howard Co.)								
MINERS CR. AND ITS TRIBUTARIES								
Miners Cr.								
266.			X					
Mouth (S20, T92N, R2W, Clayton Co.) to Hwy. 52 bridge (SE 1/4, S20, T92N, R2W, Clayton Co.)								
Miners Cr.								
267.					X			X
Hwy. 52 (SE quarter of S20, T92N, R2W, Clayton Co. to W. line of Section 1, T92N, R3W, Clayton Co.)								
BUCK CR. AND ITS TRIBUTARIES								
Buck Cr.								
268.					X		X	
Mouth (Clayton Co.) to W. line of Section 9, T93N, R3W, Clayton Co.								
Buck Cr.								
269.			X					
West line of S9, T93N, R3W, Clayton Co. to confluence with an unnamed tributary (S32, T94N, R3W, Clayton Co.)								
SNY MAGILL CR. (AKA MAGILL CR.) AND ITS TRIBUTARIES								
Sny Magill Cr. (aka Magill Cr.)								
270.					X		X	
Mouth (S23, T94N, R3W, Clayton Co.) to W. line of Section 6, T94N, R3W, Clayton Co.)								
N. Cedar Cr.								
271.					X		X	
Mouth (S8, T94N, R3W, Clayton Co.) to W. line of Section 24, T94N, R4W, Clayton Co.								
Unnamed Cr. (aka W. Fk. Sny Magill Cr.)								
272.					X			X
Mouth (S7, T94N, R3W, Clayton Co.) to W. line of Section 7, T94N, R3W, Clayton Co.								
BLOODY RUN AND ITS TRIBUTARIES								
Bloody Run								
273.					X			X
Mouth (Clayton Co.) to W. line of Section 22, T95N, R4W, Clayton Co.								
YELLOW R. AND ITS TRIBUTARIES								
Yellow R.								
274.	X	X						X
Mouth (Allamakee Co.) to County Rd. X-26 (Section 24, T96N, R5W, Allamakee Co.)								
Yellow R.								
275.		X						X
County Rd. X-26 (Allamakee Co.) to old Hwy. 51 (NE quarter of S11, T96N, R6W, Allamakee Co.)								
Yellow R.								
276.					X			X
Old Hwy. 51 to confluence with N. Fk. Yellow R. (S13, T96N, R7W, Winneshiek Co.)								
Yellow River								
277.			X					
Confluence with N. Fork Yellow R. to confluence with an unnamed tributary (SE 1/4, S8, T96N, R7W, Winneshiek Co.)								
Dousman Cr.								
278.					X			X
Mouth (S33, T96N, R3W, Allamakee Co.) to Allamakee-Clayton co. line								
Suttle Cr.								
279.					X			X
Mouth (Allamakee Co.) to Allamakee-Clayton co. line								

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
NORTHEASTERN								
MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES								
YELLOW R. AND ITS TRIBUTARIES								
Unnamed Cr. (aka Bear Cr.)								
280. Mouth (S13, T96N, R5W, Allamakee Co.) to N. line of Section 12, T96N, R5W, Allamakee Co.					X			X
Hickory Cr.								
281. Mouth (Allamakee Co.) to S. line of Section 28, T96N, R5W, Allamakee Co.					X		X	
Hickory Cr.								
282. South line of S28, T96N, R5W, Allamakee Co. to confluence with an unnamed tributary (S5, T95N, R5W, Clayton Co.)			X					
Williams Cr.								
283. Mouth (S9, T96N, R5W, Allamakee Co.) to confluence with an unnamed tributary (S17, T96N, R5W, Allamakee Co.)			X					
Norfolk Cr.								
284. Mouth (S6, T96N, R5W, Allamakee Co.) to confluence with Teeple Cr. (S24, T97N, R6W, Allamakee Co.)					X			X
Teeple Cr.								
285. Mouth (Allamakee Co.) to W. line of Section 11, T97N, R6W, Allamakee Co.)					X			X
Unnamed Cr.								
286. Mouth (S2, T96N, R6W, Allamakee Co.) to confluence with an unnamed tributary (S33, T97N, R6W, Allamakee Co.)			X					
North Fork Yellow River								
287. Mouth (S13, T96N, R7W, Winneshiek Co.) to confluence with an unnamed tributary (S3, T96N, R7W, Winneshiek Co.)			X					
PAINT CR. AND ITS TRIBUTARIES								
Paint Cr.								
288. Mouth (Allamakee Co.) to confluence with Little Paint Cr. (S32, T97N, R3W, Allamakee Co.)		X						
Paint Cr.								
289. Little Paint Cr. to Rd. crossing, S18, T97N, R4W, Allamakee Co.					X		X	
Paint Cr.								
290. Road crossing (S18, T97N, R4W, Allamakee Co.) to confluence with an unnamed tributary (S15, T97N, R5W, Allamakee Co.)			X					
Little Paint Cr.								
291. Mouth to N. line of Section 30, T97N, R3W, Allamakee Co.					X		X	
COTA CR. AND ITS TRIBUTARIES								
Cota Cr.								
292. Mouth (S26, T97N, R3W, Allamakee Co.) to W. line of Section 10, T97N, R3W, Allamakee Co.					X			X
WEXFORD CR. AND ITS TRIBUTARIES								
Wexford Cr.								
293. Mouth (S5, T97N, R2W, Allamakee Co.) to W. line of Section 25, T98N, R3W, Allamakee Co.					X		X	
VILLAGE CR. AND ITS TRIBUTARIES								
Village Cr.								
294. Mouth (Allamakee Co.) to W. line of Section 19, T98N, R4W, Allamakee Co.					X		X	

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES VILLAGE CR. AND ITS TRIBUTARIES								
Trout Run								
295. Mouth (S16, T98N, R4W, Allamakee Co.) through one mile reach					X			X
Unnamed Cr. (aka Erickson Spring Branch)								
296. Mouth (S23, T98N, R4W, Allamakee Co.) to W. line of Section 23, T98N, R4W, Allamakee Co.					X			X
CLEAR CR. AND ITS TRIBUTARIES								
Clear Cr.								
297. Mouth (Allamakee Co.) to W. line of Section 25, T99N, R4W, Allamakee Co.					X		X	
UPPER IOWA R. AND ITS TRIBUTARIES								
Upper Iowa R.								
298. Mouth (Allamakee Co.) to Lane's Bridge at river mile 6 (NW 1/4 of S31, T100N, R4W, Allamakee Co.)	X	X						
Upper Iowa R.								
299. Lane's Bridge to confluence with Silver Creek (Winnesheik Co.)	X	X						X
Upper Iowa R.								
300. Confluence with Silver Cr. (Winnesheik Co.) to Winnesheik-Howard county line	X	X						X
Upper Iowa R.								
301. Winnesheik-Howard co. line to river mile 86 (NE 1/4, S12, T100N, R13W, Howard Co.)		X						X
Upper Iowa R.								
302. River mile 86 (NE 1/4, S12, T100N, R13W, Howard Co.) to state line (S11, T100N, R14W, Howard Co.)		X						
Winnebago Cr.								
302a. Mouth (Section 11, T100N, R4W, Allamakee Co.) to state line (S11, T100N, R4W, Allamakee Co.)			X					
Irish Hollow Cr.								
303. Mouth (S21, T100N, R4W, Allamakee Co.) to N. line of Section 17, T100N, R4W, Allamakee Co.					X			X
French Cr.								
304. Mouth (Allamakee Co.) to E. line of Section 23, T99N, R5W, Allamakee Co.					X		X	
Clear Cr.								
305. Mouth (Allamakee Co.) to N. line of Section 15, T100N, R5W, Allamakee Co.					X			X
Silver Cr.								
306. Mouth (Allamakee Co.) to S. line of Section 31, T99N, R5W, Allamakee Co.					X		X	
Bear Cr.								
307. Mouth (Allamakee Co.) to confluence with N. Bear Cr. (S25, T100N, R7W, Winnesheik Co.)		X						
Bear Cr.								
308. N. Bear Cr. to spring source (Mestad Spring) Section 29, T100N, R7W, Winnesheik Co.					X		X	
Waterloo Cr.								
309. Mouth (S35, T100N, R6W, Allamakee Co.) to Iowa-Minnesota state line					X		X	
N. Bear Cr.								
310. Mouth (S25, T100N, R7W, Winnesheik Co.) to Iowa-Minnesota state line					X		X	

NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES UPPER IOWA R. AND ITS TRIBUTARIES	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Middle Bear Cr. 311. Mouth (S14, T100N, R7W, Winneshiek Co.) to N. line of Section 16, T100N, R7W, Winneshiek Co.					X			X
Paint Cr. (aka Pine Cr.) 312. Mouth (Section 9, T99N, R6W, Allamakee Co.) to confluence with Unnamed Cr. (SE 1/4 of Section 11, T99N, R7W, Winneshiek Co.					X			X
Unnamed Cr. 313. Mouth (SE 1/4, S11, T99N, R7W, Winneshiek Co.) to N. line of Section 12, T99N, R7W, Winneshiek Co.					X			X
Patterson Cr. 314. Mouth (Allamakee Co.) to E. line of Section 3, T98N, R6W, Allamakee Co.					X		X	
Canoe Cr. 315. Mouth (S25, T99N, R7W, Winneshiek Co.) to Winneshiek Co. Rd. W38 (S23, T99N, R8W, Winneshiek Co.)		X						
Canoe Cr. (aka W. Canoe Cr.) 316. Winneshiek Co. Rd. W38 to W. line of Section 8, T99N, R8W, Winneshiek Co.					X		X	
Canoe Cr. 317. West line S8, T99N, R8W, Winneshiek Co. to confluence with an unnamed tributary (E 1/2, S31, T100N, R8W, Winneshiek Co.)			X					
Pine Cr. 318. Mouth (S26, T99N, R7W, Winneshiek Co.) to N. line of Section 21, T99N, R7W, Winneshiek Co.					X			X
N. Canoe Cr. 319. Mouth (S22, T99N, R8W, Winneshiek Co.) to N. line of Section 2, T99N, R8W, Winneshiek Co.					X			X
Coon Cr. 320. Mouth (Winneshiek Co.) to rd. crossing in S13, T98N, R7W, Winneshiek Co.					X		X	
Trout Cr. 321. Mouth (S9, T98N, R7W, Winneshiek Co.) to confluence with Smith Cr. (aka Trout River) (S21, T98N, R7W, Winneshiek Co.)					X			X
Trout Cr. 322. Confluence with Smith Cr. (aka Trout River) (S21, T98N, R7W, Winneshiek Co.) to confluence with an unnamed tributary (S 1/2, S29, T98N, R7W, Winneshiek Co.)			X					
Smith Cr. (aka Trout River) 323. Mouth (Section 21, T98N, R7W, Winneshiek Co.) to S. line of S33, T98N, R7W, Winneshiek Co.)					X		X	
Trout Cr. (aka Trout Run) 324. Mouth (S23, T98N, R8W, Winneshiek Co.) to confluence with unnamed stream (aka Trout Run) (S27, T98N, R8W, Winneshiek Co.)					X			X
Trout Cr. 325. Confluence with an unnamed tributary (aka Trout Run) (S27, T98N, R8W, Winneshiek Co.) to confluence with an unnamed tributary (aka Trout Cr.) (S33, T98, R8W Winneshiek Co.)			X					

NORTHEASTERN MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES UPPER IOWA R. AND ITS TRIBUTARIES		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
	Unnamed Stream (aka Trout Run)								
326.	Mouth to S. line of S27, T98N, R8W, Winneshiek Co.					X		X	
	Dry Run								
327.	Mouth (S17, T98N, R8W, Winneshiek Co.) to W. line of Section 36, T98N, R9W, Winneshiek Co.					X			X
	Twin Springs Cr.								
328.	Mouth (S17, T98N, R8W, Winneshiek Co.) to springs in Twin Springs Park (S20, T98N, R8W, Winneshiek Co.)					X		X	
	Ten Mile Cr.								
329.	Mouth (Winneshiek Co.) to confluence with Walnut Cr. (S18, T98N, R9W, Winneshiek Co.)					X			X
	Unnamed Cr. (aka Casey Spring Cr.)								
330.	Mouth (S25, T99N, R9W, Winneshiek Co.) to W. line of Section 26, T99N, R9W, Winneshiek Co.					X			X
	Silver Cr.								
331.	Mouth (S10, T99N, R9W, Winneshiek Co.) to N. line of Section 26, T100N, R9W, Winneshiek Co.					X			X
	Silver Cr.								
332.	N. line of Sec.26, T100N, R9W, Winneshiek Co. to Hwy. 52 bridge crossing (Winneshiek Co.)			X					
	Pine Cr.								
333.	Mouth (Winneshiek Co.) to Iowa-Minnesota state line.					X			X
	E. Pine Cr.								
334.	Mouth (S28, T100N, R9W, Winneshiek Co.) to Iowa-Minnesota state line					X			X
	Unnamed Cr. (aka Cold Water Cr.)								
335.	Mouth (S32, T100N, R9W, Winneshiek Co.) to N. line of Section 31, T100N, R9W, Winneshiek Co.					X		X	
	Martha Cr.								
336.	Mouth (S6, T99N, R9W, Winneshiek Co.) to W. line of Section 13, T99N, R10W, Winneshiek Co.					X			X
	Silver Cr.								
337.	Mouth (S2, T99N, R10W, Winneshiek Co.) to W. line of S12, T99N, R11W, Howard Co.			X					
	Minor Cr.								
338.	Mouth (Winneshiek Co.) to confluence with an unnamed tributary (E 1/2, S1, T99N, R11W, Howard Co.)			X					
	Nichols Cr. (aka Bigalk Cr.)								
339.	Mouth (S18, T100N, R10W, Winneshiek Co.) to W. line of Section 23, T100N, R11W, Howard Co.					X		X	
	Unnamed Cr.								
340.	Mouth (S21, T100N, R12, Howard Co.) to confluence with an unnamed tributary in NW 1/4, SW 1/4, S28, T100N, R12W, Howard Co. (near Lime Springs)			X					
	Beaver Cr.								
341.	Mouth (Howard Co.) to S. line of S29, T100N, R13W, Howard Co.					X			X

**NORTHEASTERN
MAJOR RIVER - MISSISSIPPI R. AND ITS TRIBUTARIES
UPPER IOWA R. AND ITS TRIBUTARIES**

- Beaver Cr.
342. South line of Section 29, T100N, R13W, Howard Co.
to confluence with an unnamed tributary in the NE 1/4,
S32, T200N, R13W, Howard Co.
- Staff Cr.
343. Mouth (Howard Co.) to W. line of S27, T100N, R14W,
Howard Co.

A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
		X					
				X			X

LAKES

Lakes Index

Index Lake Name #	County	Index Lake Name #	County	
327	Afton City Reservoir	Union	113 Burr Oak Lake	Emmett
246	Albia City Reservoir	Monroe	185 Burt Lake	Kossuth
89	Allen Green Refuge Marsh	Des Moines	147 California Bend	Harrison
163	Amana Lily Pond	Iowa	360 Cardinal Marsh	Winneshiek
354	Ambrosson Pits	Winnebago	284 Carter Lake	Pottawattamie
35	Aplington Pits	Butler	317 Casey Lake	Tama
286	Arbor Lake	Poweshiek	16 Cedar Falls Impoundment	Black Hawk
296	Arrowhead Lake	Sac	213 Cedar Lake	Madison
282	Arrowhead Pond	Pottawattamie	91 Center Lake	Dickinson
42	Artesian Lake	Carroll	195 Central City Ponds	Linn
256	Ashton Pits	Osceola	180 Central Park Lake	Jones
86	Backbone Lake	Delaware	120 Charles City Impoundment	Floyd
212	Badger Creek Lake	Madison	190 Chatfield Lake	Lee
234	Badger Lake	Monona	17 City Park Pond	Black Hawk
351	Badger Lake	Webster	49 Clear Lake	Cerro Gordo
338	Banner Pits	Warren	50 Clear Lake Marsh	Cerro Gordo
66	Barringer Slough	Clay	300 Cody Lake	Scott
125	Bartlett Lake	Fremont	196 Coggon Impoundment	Linn
134	Bays Branch	Guthrie	44 Cold Springs Lake	Cass
76a	Beaver Lake	Dallas	251 Cone Lake	Muscataine
321	Bedford Impoundment	Taylor	199 Cone Marsh	Louisa
121	Beeds Lake	Franklin	176 Coralville Reservoir	Johnson
182	Belvedere Park Ponds	Keokuk	347 Corydon Reservoir	Wayne
48	Bennett Lake	Cedar	247 Cottonwood Pits	Monroe
274	Big Creek Lake	Polk	160 Crawford Creek Impoundment	Ida
283	Big Lake (Including Gilbert's Pond)	Pottawattamie	139 Crystal Lake	Hancock
36	Big Marsh	Butler	313 Dakin Lake	Story
90	Big Spirit Lake	Dickinson	275 Dale Maffitt Reservoir	Polk
373	Big Wall Lake	Wright	166 Dalton Lake	Jackson
5	Binder Lake	Adams	68 Dan Greene Slough	Clay
297	Black Hawk Lake	Sac	148 DeSoto Bend	Harrison
15	Black Hawk Park Ponds	Black Hawk	149 DeSoto Bend Pond	Harrison
235	Blackbird Bend	Monona	238 Decatur Lake	Monona
236	Blencoe Lake	Monona	276 Des Moines Water Works Recharge Basins	Polk
299	Blue Grass Lake	Scott	92 Diamond Lake	Dickinson
237	Blue Lake	Monona	287 Diamond Lake	Poweshiek
346	Bob White Lake	Wayne	23 Dickcissell Lake	Boone
137	Briggs Woods Lake	Hamilton	252 Dog Creek (Lake)	O'Brien
202	Brown's Slough	Lucas	24 Don Williams Lake	Boone
363	Browns Lake	Woodbury	253 Douma Area Pond	O'Brien
67	Brugeman Park Pond	Clay	77 Drakesville Ponds	Davis
351a	Brushy Creek Lake	Webster	12 Dudgeon Lake	Benton

LAKES

Lakes Index

Index Lake Name #	County	Index Lake Name #	County
150 Dunlap Pond	Harrison	183 Griffin Lake	Keokuk
140 Eagle Lake	Hancock	45 Griswold Park Pond	Cass
63 East Lake	Clarke	95 Grover's Marsh	Dickinson
322 East Lake (Lenox)	Taylor	31 Gustafson Lake	Buena Vista
93 East Okoboji Lake	Dickinson	96 Hale Slough	Dickinson
141 East Twin Lake	Hancock	298 Hallet Pits	Sac
277 Easter Lake	Polk	13 Hannon Lake	Benton
214 Edmunson Pond	Mahaska	356 Harmon Lake	Winnebago
78 Eldon Game Area Ponds	Davis	215 Hawthorne Lake	Mahaska
336 Eldon Pond	Wapello	314 Hendrickson Marsh	Story
142 Eldred Sherwood Lake	Hancock	315 Hickory Grove Lake	Story
368 Elk Creek Marsh	Worth	114 High Lake	Emmett
304 Elk Horn Creek Pond	Shelby	288 Holiday Lake	Poweshiek
69 Elk Lake	Clay	81 Home Pond	Decatur
203 Ellis Lake	Lucas	339 Hooper Area Pond	Warren
374 Elm Lake	Wright	21 Hope Martin Pond	Black Hawk
172 Fairfield Municipal Reservoir #1	Jefferson	97 Hottes Lake	Dickinson
173 Fairfield Municipal Reservoir #2	Jefferson	159 Humboldt Impoundment	Humboldt
309 Fairview Area Impoundment	Sioux	348 Humeston Reservoir	Wayne
51 Fin and Feather Lake	Cerro Gordo	334 Indian Lake	Van Buren
18 Fisher Lake	Black Hawk	115 Ingham Lake	Emmett
264 Five Island Lake	Palo Alto	227 Institutional Pond	Mills
355 Florence Park Pond	Winnebago	116 Iowa Lake	Emmett
310 Floyd Park Pit	Sioux	164 Iowa Lake	Iowa
225 Folsom Lake	Mills	257 Iowa Lake	Osceola
270 Fonda Reservoir	Pocahontas	342 Iowa Township Pond	Washington
278 Fort Des Moines Park Pond	Polk	46 Iranistan Pond	Cass
341 Foster Woods Pond	Washington	174 Jefferson County Park Ponds	Jefferson
119 Frog Hollow	Fayette	228 Keg Creek Lake	Mills
94 Garlock Slough	Dickinson	177 Kent Park Lake	Johnson
155 Geode Lake	Henry	200 Klum Lake	Louisa
19 George Wyth Lake	Black Hawk	218 Knoxville Pond	Marion
226 Glenwood Lake	Mills	335 Lacey Keosauqua Park Lake	Van Buren
73 Goose Lake	Clinton	340 Lake Ahquabi	Warren
186 Goose Lake	Kossuth	47 Lake Anita	Cass
279 Grays Lake	Polk	357 Lake Catherine	Winnebago
337 Greater Ottumwa Central Park Ponds	Wapello	37 Lake Considine	Butler
20 Green Belt Lake	Black Hawk	375 Lake Cornelia	Wright
223 Green Castle Lake	Marshall	343 Lake Darling	Washington
127 Green Island Lake	Jackson	79 Lake Fisher	Davis
328 Green Valley Lake	Union	157 Lake Hendricks	Howard
191 Greenbay Lake	Lee	6 Lake Icaria	Adams

LAKES

Lakes Index

Index Lake Name #	County	Index Lake Name #	County
216 Lake Keomah	Mahaska	170 Mariposa Lake	Jasper
82 Lake LeShane	Decatur	344 Marr Park Pond	Washington
285 Lake Manawa	Pottawattamie	224 Marshall County Lake	Marshall
178 Lake McBride	Johnson	53 Mason City E. Park Pond	Cerro Gordo
361 Lake Meyers	Winneshiek	258 May City Pits	Osceola
248 Lake Miami	Monroe	316 McFarland's Pond	Story
201 Lake Odessa	Louisa	54 McIntosh Wildlife Area	Cerro Gordo
352 Lake Ole	Webster	329 McKinley Lake	Union
211 Lake Pahoja	Lyon	1 Meadow Lake	Adair
135 Lake Panorama	Guthrie	55 Meadow Lake	Cerro Gordo
98 Lake Park Pond	Dickinson	158 Merrick Pond	Howard
289 Lake Ponderosa	Poweshiek	22 Meyer Lake	Black Hawk
187 Lake Smith	Kossuth	241 Middle Decatur Lake	Monona
335a Lake Sugema	Van Buren	365 Midway Park Lake	Woodbury
80 Lake Wapello	Davis	230 Mile Hill Lake	Mills
323 Lake of Three Fires	Taylor	254 Mill Creek (Lake)	O'Brien
301 Lake of the Hills	Scott	369 Mill Pond	Worth
302 Lambach Lake	Scott	103 Minnewashta Lake	Dickinson
59 Larson Lake	Cherokee	161 Moorhead Park Pond	Ida
269 LeMars Pit	Plymouth	2 Mormon Trail Lake	Adair
52 Lekwa Marsh	Cerro Gordo	204 Morris Lake	Lucas
64 Liberty Acres	Clarke	376 Morse Lake	Wright
99 Lily Lake	Dickinson	292 Mt. Ayr Game Area Ponds	Ringgold
349 Lineville Reservoir	Wayne	293 Mt. Ayr Old Reservoir	Ringgold
290 Lions Club Pond	Ringgold	181 Muskrat Slough	Jones
271 Little Clear-Lake	Pocahontas	358 Myre Slough	Winnebago
305 Little George Pond	Shelby	9a Mystic Reservoir	Appanoose
83 Little River Watershed Lake	Decatur	11 Nabotna Pond	Audubon
364 Little Sioux Park Lake	Woodbury	61 Nashua Impoundment	Chickasaw
100 Little Spirit Lake	Dickinson	255 Negus Recreation Area Pond	O'Brien
138 Little Wall Lake	Hamilton	74 Nelson Park Lake	Crawford
11a Littlefield Lake	Audubon	84 Nine Eagles Lake	Decatur
353 Lizard Creek Game Area Ponds	Webster	3 Nodaway Lake	Adair
272 Lizard Lake	Pocahontas	205 North Colyn Marsh	Lucas
291 Loch Ayr	Ringgold	168 North Sabula Lake	Jackson
265 Lost Island Lake	Palo Alto	39 North Twin Lake	Calhoun
239 Louisville Bend	Monona	156 Oakland Mills Impoundment	Henry
8 Lower Centerville Reservoir	Appanoose	259 Ocheyedon Pits	Osceola
240 Lower Decatur Lake	Monona	303 Odetta Lake	Scott
101 Lower Gar Lake	Dickinson	242 Oldham Lake	Monona
145 Lower Pine Lake	Hardin	4 Orient Lake	Adair
229 Malvern Pond	Mills	72 Osborne Pond	Clayton
306 Mantano Park Pond	Shelby		
32 Marathon City Park Pond	Buena Vista		
102 Marble Lake	Dickinson		

LAKES

Lakes Index

Index Lake Name #	County	Index Lake Name #	County
318 Otter Creek Lake	Tama	128 Scott Lake B	Fremont
319 Otter Creek Marsh	Tama	350 Seymour Reservoir	Wayne
231 P.J. Lake	Mills	244 Sherman Township Access Area	Monona
126 Percival Lake	Fremont	193 Shimek Forest Ponds	Lee
260 Peters Pit	Osceola	88 Silver Lake	Delaware
33 Pickerel Lake	Buena Vista	107 Silver Lake	Dickinson
261 Pierce Creek Pond	Page	266 Silver Lake	Palo Alto
249 Pilot Grove Lake	Montgomery	370 Silver Lake	Worth
143 Pilot Knob Lake	Hancock	371 Silver Lake Marsh	Worth
262 Pioneer Park Pond	Page	362 Silver Springs Pond	Winneschiek
197 Pleasant Creek Lake	Linn	311 Sioux Center Pit	Sioux
104 Pleasant Lake	Dickinson	85 Slip Bluff Lake	Decatur
219 Pleasantville Pond	Marion	366 Snyder Bend Lake	Woodbury
192 Poll Miller Park Lake	Lee	345 Sokum Ridge Pond	Washington
232 Pony Creek Lake	Mills	198 South Cedar Pond	Linn
122 Pope Joy Pond	Franklin	207 South Colyn Marsh	Lucas
105 Prairie Lake	Dickinson	169 South Sabula Lake	Jackson
307 Prairie Rose Lake	Shelby	41 South Twin Lake	Calhoun
87 Quaker Mills Impoundment	Delaware	62 Split Rock Lake	Chickasaw
243 Rabbitt Island Lake	Monona	267 Sportsman Park Pond	Palo Alto
9 Rathbun Reservoir	Appanoose	38 Sportsman's Pond	Butler
206 Red Haw Lake	Lucas	60 Spring Lake	Cherokee
220 Red Rock Reservoir	Marion	131 Spring Lake	Greene
359 Rice Lake	Winnebago	136 Springbrook Lake	Guthrie
294 Ringgold Management Area Ponds	Ringgold	152 St. John's Lake	Harrison
221 Roberts Creek Lake	Marion	208 Stephen's Forest Pond #1	Lucas
123 Robinsons Pond	Franklin	209 Stephen's Forest Pond #2	Lucas
171 Rock Creek Lake	Jasper	133 Stoehr Lake	Grundy
56 Rockfall Pond	Cerro Gordo	34 Storm Lake	Buena Vista
40 Rockwell City City Pond	Calhoun	330 Summitt Lake	Union
57 Rockwell Pond	Cerro Gordo	273 Sunken Grove Lake	Pocahontas
14 Rodgers Park Lake	Benton	108 Sunken Lake	Dickinson
132 Rodman Park Ponds	Grundy	75 Sunset Lake	Crawford
106 Sandbar Slough	Dickinson	43 Swan Lake	Carroll
280 Saylorville Reservoir	Polk	109 Swan Lake	Dickinson
151 Schaben Pond	Harrison	179 Swan Lake	Johnson
70 Scharnberg Pond	Clay	25 Sweet Marsh Reservoir	Bremer
308 Schimeroski Pond	Shelby	26 Sweet Marsh Seg. A	Bremer
263 Schneck's Lake	Page	27 Sweet Marsh Seg. B	Bremer
162 School Pond	Ida	28 Sweet Marsh Seg. C	Bremer
127 Scott Lake A	Fremont	331 Talmadge Hill Lake/Marsh	Union

LAKES

Lakes Index

Index Lake Name #	County			
332 Thayer Lake	Union	76	Yellow Smoke Park Lake	Crawford
281 Thomas Mitchell Lake	Polk	184	Yenrougis Pond	Keokuk
332a Three Mile Lake	Union			
124 Toft Pit	Franklin			
222 Tower Pond	Marion			
30 Troy Mills Marsh	Buchanan			
71 Trumbull Lake	Clay			
117 Tuttle Lake	Emmett			
333 Twelve Mile Creek Lake	Union			
118 Twelve-Mile Lake	Emmett			
153 Tyson Bend	Harrison			
320 Union Grove Lake	Tama			
188 Union Slough	Kossuth			
10 Upper Centerville Reservoir	Appanoose			
110 Upper Gar Lake	Dickinson			
146 Upper Pine Lake	Hardin			
58 Ventura Marsh	Cerro Gordo			
250 Viking Lake	Montgomery			
268 Virgin Lake	Palo Alto			
295 Walnut Creek Marsh	Ringgold			
175 Walton Reservoir	Jefferson			
29 Waverly Impoundment	Bremer			
111 Welch Lake	Dickinson			
129 West Forney's Lake A	Fremont			
130 West Forney's Lake B	Fremont			
65 West Lake	Clarke			
324 West Lake (Lenox)	Taylor			
7 West Lake Corning	Adams			
112 West Okoboji Lake	Dickinson			
144 West Twin Lake	Hancock			
217 White Oak Conservation Area	Mahaska			
245 Whiting Woods Pond	Monona			
189 Whittemore Pit	Kossuth			
251a Wiese Slough	Muscatine			
165 Williamsburg Pond	Iowa			
210 Williamson Pond	Lucas			
154 Willow Lake	Harrison			
233 Willow Slough	Mills			
325 Wilson Park Lake	Taylor			
194 Wilson Park Lakes	Lee			
326 Windmill Lake	Taylor			
367 Winnebago Bend Lake	Woodbury			
312 Winterfield Pond	Sioux			
372 Worth County Lake	Worth			

County	Lake Name	Location			Water Uses							
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Adair</u>												
1	Meadow Lake	31	76	17	X			X				
2	Mormon Trail Lake	33	74	3	X			X				
3	Nodaway Lake	32	75	14	X			X		X		
4	Orient Lake	31	74	20	X			X		X		
<u>Adams</u>												
5	Binder Lake	34	72	25	X			X		X		
6	Lake Icaria	34	72	10	X			X		X		
7	West Lake Corning	34	72	36				X		X		
<u>Appanoose</u>												
8	Lower Centerville Reservoir	18	68	12	X			X		X		
9	Rathbun Reservoir (refer to Southern Iowa River Basins)											
9a	Mystic Reservoir	18	69	8	X			X		X		
10	Upper Centerville Reservoir	18	68	11	X			X		X		
<u>Audubon</u>												
11	Nabotna Pond	35	80	11				X				
11a	Littlefield Lake	34	78	18				X				
<u>Benton</u>												
12	Dudgeon Lake	10	85	9				X				
13	Hannon Lake	11	82	32	X			X				
14	Rodgers Park Lake	11	86	1	X			X				
<u>Black Hawk</u>												
15	Black Hawk Park Ponds	14	90	34				X				
16	Cedar Falls Impoundment (refer to Iowa-Cedar River Basin)											
17	City Park Pond (Waterloo)	13	89	15				X				
18	Fisher Lake	13	89	6				X				
19	George Wyth Lake	13	89	6	X			X				
20	Green Belt Lake	13	89	6	X			X				
21	Hope Martin Pond	13	89	27				X				
22	Meyer Lake	12	88	6	X			X				
<u>Boone</u>												
23	Dickissell Lake	26	84	24				X				
24	Don Williams Lake	27	84	5	X			X				

County	Lake Name	Location			Water Uses							
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
Bremer												
25	Sweet Marsh Reservoir	12	93	34				X				
26	Sweet Marsh Seg. A	12	92	2				X				
27	Sweet Marsh Seg. B	12	93	35				X				
28	Sweet Marsh Seg. C	12	93	34				X				
29	Waverly Impoundment (refer to Iowa-Cedar River Basin)											
Buchanan												
30	Troy Mills Marsh	8	87	25				X				
Buena Vista												
31	Gustafson Lake	36	93	18	X			X				
32	Marathon City Park Pond	35	93	20	X			X				
33	Pickereel Lake	35	93	1	X			X				
34	Storm Lake (including Little Storm Lake)	37	90	14	X			X				
Butler												
35	Aplington Pits	17	90	20				X				
36	Big Marsh	17	91	25				X				
37	Lake Considine	18	91	12				X				
38	Sportsman's Pond	16	92	13				X				
Calhoun												
39	North Twin Lake	35	88	1	X			X				
40	Rockwell City City Pond	32	88	36				X				
41	South Twin Lake	33	88	1				X				
Carroll												
42	Artesian Lake	33	85	27				X				
43	Swan Lake	34	83	5	X			X				
Cass												
44	Cold Springs Lake	37	75	15	X			X				
45	Griswold Park Pond	37	75	32				X				
46	Iranistan Pond	37	75	8				X				
47	Lake Anita	34	77	32	X			X				
Cedar												
48	Bennett Lake	1	80	11				X				

County	Lake Name	Location			Water Uses							
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Cerro Gordo</u>												
	49 Clear Lake	22	96	13	X			X		X		X
	50 Clear Lake Marsh	21	96	6				X				
	51 Fin and Feather Lake	20	96	27				X				
	52 Lekwa Marsh	22	96	26				X				
	53 Mason City E. Park Pond	20	96	7				X				
	54 McIntosh Wildlife Area	22	96	16				X				
	55 Meadow Lake	20	96	14				X				
	56 Rockfall Pond	19	97	22				X				
	57 Rockwell Pond	20	94	10				X				
	58 Ventura Marsh	22	96	19				X				
<u>Cherokee</u>												
	59 Larson Lake	39	91	1				X				
	60 Spring Lake	40	92	28	X			X				
<u>Chickasaw</u>												
	61 Nashua Impoundment (refer to Iowa-Cedar River Basin)											
	62 Split Rock Lake	12	94	35	X			X				
<u>Clarke</u>												
	63 East Lake (Osceola)	25	72	16	X			X				
	64 Liberty Acres	24	73	8				X				
	65 West Lake (Osceola)	26	72	13				X	X			
<u>Clay</u>												
	66 Barringer Slough	35	96	14				X				
	67 Brugeman Park Pond	38	97	30	X			X				
	68 Dan Greene Slough	35	97	20				X				
	69 Elk Lake	35	96	36				X				X
	70 Scharnberg Pond	38	96	11	X			X				
	71 Trumbull Lake	35	97	27	X			X				
<u>Clayton</u>												
	72 Osborne Pond	5	92	9	X			X				
<u>Clinton</u>												
	73 Goose Lake	4	83	29				X				
<u>Crawford</u>												
	74 Nelson Park Lake	41	82	2	X			X				
	75 Sunset Lake	39	83	16				X				
	76 Yellow Smoke Park Lake	38	83	6	X			X				
<u>Dallas</u>												
	76a Beaver Lake	29	78	29	X			X				

County	Location Lake Name	Location			Water Uses							
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Davis</u>												
77	Drakesville Ponds	14	69	6				X				
78	Eldon Game Area Ponds	12	70	9				X				
79	Lake Fisher	13	69	19				X		X		
80	Lake Wapello	15	70	34	X			X		X		
<u>Decatur</u>												
81	Home Pond	27	37	3				X		X		
82	Lake LeShane	27	67	4	X			X		X		
83	Little River Watershed Lake	25	69	19	X			X				
84	Nine Eagles Lake	25	67	18	X			X		X		
85	Slip Bluff Lake	26	68	28	X			X				
<u>Delaware</u>												
86	Backbone Lake (refer to Northeastern Iowa River Basins)											
87	Quaker Mills Impoundment (refer to Northeastern Iowa River Basins)											
88	Silver Lake	4	88	16	X			X				
<u>Des Moines</u>												
89	Allen Green Refuge- Marsh	1	72	29				X				
<u>Dickinson</u>												
90	Big Spirit Lake	36	100	33	X			X		X	X	
91	Center Lake	36	99	7	X			X				
92	Diamond Lake	37	100	15				X				
93	East Okoboji Lake	36	99	29	X			X			X	
94	Garlock Slough	37	99	35				X				
95	Grover's Marsh	36	100	12								X
96	Hale Slough	36	100	23				X				
97	Hottes Lake	36	100	18				X				
98	Lake Park Pond	38	100	32				X				
99	Lily Lake	35	99	18				X				
100	Little Spirit Lake	36	100	8	X			X				
101	Lower Gar Lake	36	99	32	X			X			X	
102	Marble Lake	36	100	17				X				
103	Minnewashta Lake	36	99	29	X			X			X	
104	Pleasant Lake	35	99	7				X				
105	Prairie Lake	36	99	23				X				
106	Sandbar Slough	36	100	14				X				

County	Location Lake Name	Location			Water Uses							
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
	107 Silver Lake	38	100	28	X			X		X		
	108 Sunken Lake	36	100	17				X				
	109 Swan Lake	35	100	23				X				
	110 Upper Gar Lake	36	99	29	X			X			X	
	111 Welch Lake	37	100	23				X				
	112 West Okoboji Lake	36	99	20	X			X		X	X	
<u>Emmett</u>												
	113 Burr Oak Lake	33	98	21								X
	114 High Lake	33	98	14	X			X				
	115 Ingham Lake	33	98	12	X			X				
	116 Iowa Lake	31	100	12				X		X		
	117 Tuttle Lake	32	100	14	X			X				X
	118 Twelve-Mile Lake	34	98	21				X				
<u>Fayette</u>												
	119 Frog Hollow (aka Volga Lake)	8	93	3	X			X				
<u>Floyd</u>												
	120 Charles City Impoundment (refer to Iowa-Cedar River Basin)											
<u>Franklin</u>												
	121 Beeds Lake (refer to Iowa-Cedar River Basin)											
	122 Pope Joy Pond	22	90	21				X				
	123 Robinsons Pond	20	92	23				X				
	124 Toft Pit	22	91	30	X			X				
<u>Fremont</u>												
	125 Bartlett Lake	43	70	4				X				
	126 Percival Lake	43	69	20				X				
	127 Scott Lake A	43	70	16				X				
	128 Scott Lake B	43	70	16				X				
	129 West Forney's Lake A	43	70	8				X				
	130 West Forney's Lake B	43	70	8				X				
<u>Greene</u>												
	131 Spring Lake	30	84	25	X			X				
<u>Grundy</u>												
	132 Rodman Park Ponds	15	89	34				X				
	133 Stoehr Lake (Wellsburg)	18	88	15				X				

County	Location Lake Name	Location			Water Uses							
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Guthrie</u>												
	134 Bays Branch	30	80	22				X				
	135 Lake Panorama (refer to Des Moines River Basin)											
	136 Springbrook Lake	31	81	33	X			X				
<u>Hamilton</u>												
	137 Briggs Woods Lake	25	88	17	X			X				
	138 Little Wall Lake	24	86	10	X			X				
<u>Hancock</u>												
	139 Crystal Lake	25	97	15	X			X				
	140 Eagle Lake	24	96	18				X				
	141 East Twin Lake	24	94	29				X				
	142 Eldred Sherwood Lake	24	94	21	X			X				
	143 Pilot Knob Lake	23	97	3	X			X				
	144 West Twin Lake	24	94	30				X				
<u>Hardin</u>												
	145 Lower Pine Lake (refer to Iowa-Cedar River Basin)											
	146 Upper Pine Lake (refer to Iowa-Cedar River Basin)											
<u>Harrison</u>												
	147 California Bend	45	78	7				X				
	148 DeSoto Bend	45	78	21	X			X				X
	149 DeSoto Bend Pond	45	78	20				X				
	150 Dunlap Pond	41	81	2				X				
	151 Schaben Pond	41	81	30				X				
	152 St. John's Lake	44	78	8				X				
	153 Tyson Bend	45	79	28				X				
	154 Willow Lake	43	80	23	X			X				
<u>Henry</u>												
	155 Geode Lake	5	70	36	X			X		X		
	156 Oakland Mills Impoundment (refer to Skunk River Basin)											
<u>Howard</u>												
	157 Lake Hendricks	14	99	19	X			X				
	158 Merrick Pond	14	98	5				X				

County	Location Lake Name	Location			Water Uses							
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Humboldt</u>												
159	Humboldt Impoundment (aka Lake Nakomis) (refer to Des Moines River Basin)											
<u>Ida</u>												
160	Crawford Creek Impoundment	41	86	10	X			X				
161	Moorhead Park Pond	39	87	11				X				
162	School Pond	41	87	26	X							
<u>Iowa</u>												
163	Amana Lily Pond	9	81	27				X				
164	Iowa Lake	11	79	19	X			X				
165	Williamsburg Pond	10	79	9				X				
<u>Jackson</u>												
166	Dalton Lake	5E	84	34					X		X	
167	Green Island Lake	6E	85	20				X				
168	North Sabula Lake	7E	84	18	X			X				
169	South Sabula Lake	7E	84	19	X			X				
<u>Jasper</u>												
170	Mariposa Lake	18	81	32	X			X				
171	Rock Creek Lake	17	80	17	X			X		X		
<u>Jefferson</u>												
172	Fairfield Municipal Reservoir #1	10	72	24				X		X		
173	Fairfield Municipal Reservoir #2	10	72	24				X		X		
174	Jefferson County Park Ponds	8	71	32				X				
175	Walton Reservoir	9	72	30				X		X		
<u>Johnson</u>												
176	Coralville Reservoir (refer to Iowa-Cedar River Basin)											
177	Kent Park Lake	8	80	24	X			X				
178	Lake McBride	6	81	29	X			X				
179	Swan Lake	7	80	5				X				
<u>Jones</u>												
180	Central Park Lake	3	84	1	X			X				
181	Muskrat Slough	3	83	16				X				

County	Location Lake Name	Location			Water Uses							
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Keokuk</u>												
	182 Belvadeer Park Ponds	11	76	21				X				
	183 Griffin Lake	13	76	15				X				
	184 Yenrougis Pond	12	76	23	X			X				
<u>Kossuth</u>												
	185 Burt Lake	30	100	9				X				
	186 Goose Lake	30	100	17				X				
	187 Lake Smith	29	96	36	X			X				
	188 Union Slough	28	98	35				X				X
	189 Whittemore Pit	30	95	9	X			X				
<u>Lee</u>												
	190 Chatfield Lake	5	65	2	X			X				
	191 Greenbay Lake	3	68	28				X				
	192 Poll Miller Park Lake	5	68	9	X			X				
	193 Shimek Forest Ponds	7	67	31				X				
	194 Wilson Park Lakes	6	68	35	X			X				
<u>Linn</u>												
	195 Central City Ponds	6	85	3				X				
	196 Coggon Impoundment (see Northeastern Iowa River Basins)											
	197 Pleasant Creek Lake	8	85	31	X			X				
	198 South Cedar Pond	5	82	28				X				
<u>Louisa</u>												
	199 Cone Marsh	5	76	14				X				
	200 Klum Lake	2	75	25				X				
	201 Lake Odessa	2	73	2	X			X				
<u>Lucas</u>												
	202 Brown's Slough	20	71	35				X				
	203 Ellis Lake	21	72	27				X		X		
	204 Morris Lake	21	72	26				X		X		
	205 North Colyn Marsh	20	71	30				X				
	206 Red Haw Lake	21	71	28	X			X		X		
	207 South Colyn Marsh	20	71	30				X				
	208 Stephen's Forest Pond #1	23	72	22				X				
	209 Stephen's Forest Pond #2	23	72	28				X				
	210 Williamson Pond	21	73	27	X			X				
<u>Lyon</u>												
	211 Lake Pahoja	48	99	23	X			X				

County	Location Lake Name	Location			Water Uses							
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HOR
<u>Madison</u>												
	212 Badger Creek Lake	27	77	11	X			X				
	213 Cedar Lake	27	76	19				X		X		
<u>Mahaska</u>												
	214 Edmunson Pond	16	75	27				X				
	215 Hawthorne Lake (aka Barnes City Lake)	14	77	10	X			X				
	216 Lake Keomah	15	75	13	X			X		X		
	217 White Oak Conservation Area	14	75	28	X			X				
<u>Marion</u>												
	218 Knoxville Pond	20	75	11				X				
	219 Pleasantville Pond	21	76	15				X				
	220 Red Rock Reservoir (refer to Des Moines River Basin)											
	221 Roberts Creek Lake	19	76	4	X			X				
	222 Tower Pond	19	76	25				X				
<u>Marshall</u>												
	223 Green Castle Lake	17	82	8	X			X				
	224 Marshall County Lake	18	84	31				X				
<u>Mills</u>												
	225 Folsom Lake	43	73	32	X			X				
	226 Glenwood Lake	43	72	12				X				
	227 Institutional Pond (aka Peter Pan Lake)	43	72	24				X				
	228 Keg Creek Lake	43	72	32				X				
	229 Malvern Pond (aka Bohner Pond)	41	72	32				X				
	230 Mile Hill Lake	43	72	26				X				
	231 P.J. Lake	43	72	29				X				
	232 Pony Creek Lake	43	72	4				X				
	233 Willow Slough	40	73	29				X				
<u>Monona</u>												
	234 Badger Lake	46	85	29				X				
	235 Blackbird Bend	47	85	28				X				
	236 Blencoe Lake	45	82	31				X				
	237 Blue Lake	46	84	35	X			X				
	238 Decatur Lake	46	83	17	X			X				

County	Lake Name	Location			Water Uses								
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR	
	239 Louisville Bend	46	83	7				X					
	240 Lower Decatur Lake	46	83	17				X					
	241 Middle Decatur Lake	46	83	16	X			X					
	242 Oldham Lake	43	83	13	X			X					
	243 Rabbitt Island Lake	47	85	28				X					
	244 Sherman Township Access Area	45	82	8				X					
	245 Whiting Woods Pond	43	85	30				X					
<u>Monroe</u>													
	246 Albia City Reservoir	17	72	9	X			X		X			
	247 Cottonwood Pits	17	71	2				X					
	248 Lake Miami	17	73	20	X			X					
<u>Montgomery</u>													
	249 Pilot Grove Lake	36	73	1				X					
	250 Viking Lake	36	71	6	X			X		X			
<u>Muscatine</u>													
	251 Cone Lake (refer to Iowa- Cedar River Basin)												
	251a Wiese Slough	2	78	19				X					
<u>O'Brien</u>													
	252 Dog Creek (Lake)	39	94	29	X			X					
	253 Douma Area Pond	41	96	5	X			X					
	254 Mill Creek (Lake)	41	95	3	X			X					
	255 Negus Recreation Area Pond	39	94	30				X					
<u>Osceola</u>													
	256 Ashton Pits	42	98	11	X			X					
	257 Iowa Lake	39	100	9				X					
	258 May City Pits	39	98	6	X			X					
	259 Ocheyedan Pits	40	99	23	X			X					
	260 Peters Pit	42	100	19				X					
<u>Page</u>													
	261 Pierce Creek Pond	39	70	29	X			X					
	262 Pioneer Park Pond	38	69	28				X					
	263 Schneck's Lake	36	69	6	X			X					

County	Location Lake Name	Location			Water Uses							
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HOR
<u>Palo Alto</u>												
	264 Five Island Lake	32	96	18	X			X				
	265 Lost Island Lake	34	97	31	X			X				
	266 Silver Lake	34	95	20	X			X				
	267 Sportsman Park Pond	31	96	19	X			X				
	268 Virgin Lake	34	96	30				X				X
<u>Plymouth</u>												
	269 LeMars Pit	45	92	25	X			X				
<u>Pocahontas</u>												
	270 Fonda Reservoir	34	90	22				X				
	271 Little Clear-Lake	34	91	6				X				
	272 Lizard Lake	34	91	22				X				
	273 Sunken Grove Lake	34	90	8				X				
<u>Polk</u>												
	274 Big Creek Lake (refer to Des Moines River Basin)											
	275 Dale Maffitt Reservoir	25	78	31	X			X		X		
	276 Des Moines Water Works Recharge Basins	24	78	12	X			X		X		
	277 Easter Lake	23	78	19	X			X				
	278 Fort Des Moines Park Pond	24	78	33				X				
	279 Grays Lake	24	78	7	X			X				
	280 Saylorville Reservoir (refer to Des Moines River Basin)											
	281 Thomas Mitchell Lake	23	79	23				X				
<u>Pottawattamie</u>												
	282 Arrowhead Pond	41	77	29	X			X				
	283 Big Lake (Including Gilbert's Pond)	44	75	13				X				
	284 Carter Lake	44	75	23	X			X				
	285 Lake Manawa	44	74	13	X			X				
<u>Poweshiek</u>												
	286 Arbor Lake	16	80	20	X			X				
	287 Diamond Lake	15	78	2				X		X		
	288 Holiday Lake	14	81	23	X			X				
	289 Lake Ponderosa	15	78	2	X			X				

County	Location Lake Name	Location			Water Uses							
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Ringgold</u>												
	290 Lions Club Pond	29	69	31				X				
	291 Loch Ayr	29	69	30	X			X		X		
	292 Mt. Ayr Game Area Ponds	30	68	17				X				
	293 Mt. Ayr Old Reservoir	29	69	31				X				
	294 Ringgold Management Area Ponds	29	67	13				X				
	295 Walnut Creek Marsh	30	68	17				X				
<u>Sac</u>												
	296 Arrowhead Lake	36	86	4	X			X				
	297 Black Hawk Lake	36	87	35	X			X				
	298 Hallet Pits	36	86	5	X			X				
<u>Scott</u>												
	299 Blue Grass Lake	2E	78	26				X				
	300 Cody Lake	4E	80	20				X				
	301 Lake of the Hills	2E	78	25				X				
	302 Lambach Lake	2E	78	25				X				
	303 Odetta Lake	4E	80	20				X				
<u>Shelby</u>												
	304 Elk Horn Creek Pond	37	78	10				X				
	305 Little George Pond	38	79	19				X				
	306 Mantano Park Pond	40	81	2	X			X				
	307 Prairie Rose Lake	38	79	36	X			X		X		
	308 Schimeroski Pond	39	80	5				X				
<u>Sioux</u>												
	309 Fairview Area Impoundment	48	97	14				X				
	310 Floyd Park Pit	44	94	11				X				
	311 Sioux Center Pit	45	95	8				X				
	312 Winterfield Pond (aka Van Zee Pit)	46	97	19	X			X				
<u>Story</u>												
	313 Dakin Lake	21	85	16				X				
	314 Hendrickson Marsh	21	83	1				X				
	315 Hickory Grove Lake	22	83	24	X			X				
	316 McFarland's Pond	23	84	7				X				

County	Location Lake Name	Location			Water Uses							
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Tama</u>												
	317 Casey Lake	13	86	13	X			X				
	318 Otter Creek Lake	14	84	31	X			X				
	319 Otter Creek Marsh	14	82	3				X				
	320 Union Grove Lake	16	85	33	X			X				
<u>Taylor</u>												
	321 Bedford Impoundment	34	68	26				X		X		
	322 East Lake (Lenox)	32	70	6	X			X		X		
	323 Lake of Three Fires	34	68	12	X			X		X		
	324 West Lake (Lenox)	32	70	5				X		X		
	325 Wilson Park Lake	32	70	28	X			X				
	326 Windmill Lake	35	69	36	X			X				X
<u>Union</u>												
	327 Afton City Reservoir	29	72	17				X		X		
	328 Green Valley Lake	31	73	26	X			X		X		
	329 McKinley Lake	31	72	11	X			X				
	330 Summitt Lake	31	72	3				X		X		
	331 Talmadge Hill Lake/ Marsh	28	72	20	X			X				
	332 Thayer Lake	28	72	22	X			X				
	332a Three Mile Lake	29	73	32				X		X		
	333 Twelve Mile Creek Lake	30	72	12	X			X		X		
<u>Van Buren</u>												
	334 Indian Lake	8	67	2	X			X				
	335 Lacey Keosauqua Park Lake	10	68	2	X			X		X		
	335a Lake Sugema	10	68	14				X				
<u>Wapello</u>												
	336 Eldon Pond	12	71	26				X				
	337 Greater Ottumwa Central Park Ponds	14	72	25	X			X				
<u>Warren</u>												
	338 Banner Pits	23	77	30				X				
	339 Hooper Area Pond	24	75	26				X				
	340 Lake Ahquabi	24	75	14	X			X		X		X
<u>Washington</u>												
	341 Foster Woods Pond	9	77	26				X				
	342 Iowa Township Pond	6	77	7				X				
	343 Lake Darling	9	74	21	X			X		X		
	344 Marr Park Pond	6	75	19				X				
	345 Sokum Ridge Pond	7	75	15				X				

County	Lake Name	Location			Water Uses							
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Wayne</u>												
346	Bob White Lake	22	68	4	X			X		X		
347	Corydon Reservoir	22	69	24	X			X		X		
348	Humeston Reservoir	23	70	9	X			X		X		
349	Lineville Reservoir	23	67	16				X		X		
350	Seymour Reservoir	20	68	23	X			X		X		
<u>Webster</u>												
351	Badger Lake	28	90	19	X			X				
351a	Brushy Creek Lake	27	88	34				X				
352	Lake Ole	28	86	16				X				
353	Lizard Creek Game Area Ponds	29	89	33	X			X				
<u>Winnebago</u>												
354	Ambrosson Pits	24	98	11	X			X				
355	Florence Park Pond	25	99	26	X			X				
356	Harmon Lake	24	100	21				X				
357	Lake Catherine	25	98	35	X			X				
358	Myre Slough	25	98	22				X				
359	Rice Lake	23	99	13	X			X				
<u>Winneshiek</u>												
360	Cardinal Marsh	10	98	7				X				
361	Lake Meyers	9	97	34	X			X				
362	Silver Springs Pond	8	96	15				X				
<u>Woodbury</u>												
363	Browns Lake	47	87	32	X			X				
364	Little Sioux Park Lake	42	89	12	X			X				
365	Midway Park Lake	44	89	10	X			X				
366	Snyder Bend Lake	47	86	17	X			X				
367	Winnebago Bend Lake	47	86	28	X			X				
<u>Worth</u>												
368	Elk Creek Marsh	22	99	5				X				
369	Mill Pond (refer to Iowa-Cedar River Basin)											
370	Silver Lake	22	100	14	X			X				X
371	Silver Lake Marsh	22	100	10				X				X
372	Worth County Lake	20	99	26	X			X				

County	Location	Water Uses										
		R.	T.	S.	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Wright</u>												
373	Big Wall Lake	24	90	14				X				
374	Elm Lake	24	92	21				X				X
375	Lake Cornelia	24	92	16	X			X				
376	Morse Lake	24	93	28				X				

This rule is intended to implement Iowa Code chapter 455B, division I, and division III, part 1.

567—61.4 to 61.9 Reserved.

VOLUNTEER MONITORING DATA REQUIREMENTS

567—61.10(455B) Purpose. The department uses water quality monitoring data for a number of purposes, including determining compliance with effluent limits for operation permits issued under 567—Chapter 64. The department also uses water quality monitoring data to determine the relative health of a water body by comparing monitoring data to the appropriate water quality standards established in 567—Chapter 61, a process known as water body assessments. Water body assessments are performed to prepare the biennial water quality report required under Section 305(b) of the Act and the list of impaired waters under Section 303(d) of the Act.

Iowa Code sections 455B.193 to 455B.195 require that credible data, as defined in Iowa Code section 455B.171, be used for the purpose of preparing Section 303(d) lists and other water quality program functions. Data provided by a volunteer are not considered credible data unless provided by a qualified volunteer. The purpose of this chapter is to establish minimum requirements for data produced by volunteers to meet the credible data and qualified volunteer requirements.

567—61.11(455B) Monitoring plan required. Volunteer water quality monitoring data submitted to the department must have been produced in accordance with a department-approved volunteer water quality monitoring plan before the data may be used for any of the purposes listed in Iowa Code section 455B.194. Approval of a plan will establish qualified volunteer status for the personnel identified in the plan for those monitoring activities covered under the plan.

61.11(1) Submittal of the plan. Prior to initiation of volunteer water quality monitoring activities intended to produce credible data, a water quality monitoring plan must be submitted to the department for review and approval. The plan must be submitted to the Volunteer Monitoring Coordinator, Department of Natural Resources, Wallace State Office Building, Des Moines, Iowa 50319, a minimum of 90 days before planned initiation of volunteer monitoring activities. A letter transmitting the plan must specifically request formal review and approval of the plan and identify a contact person. Volunteer monitors are encouraged to communicate with the department and to attend volunteer monitoring training sessions prior to formal submittal of a plan.

61.11(2) Content of the plan. A volunteer monitoring plan must contain, at a minimum, the following to be considered an acceptable volunteer monitoring plan:

- a. A statement of the intent of the monitoring effort.
- b. The name(s) of the person or persons that will be involved in data collection or analysis, the specific responsibilities of each person or group of people, and the general qualifications of the volunteers to carry out those responsibilities. For groups, such as educational institutions, it will be acceptable to identify the persons involved by general description (e.g., tenth grade biology class) with the exception of persons in responsible charge.

c. The name(s) of the person or persons that will oversee the monitoring plan, ensure that quality assurance and control objectives are being met, and certify the data. The person or persons in responsible charge must have training commensurate with the level of expertise to ensure that credible data is being generated.

d. The duration of the volunteer monitoring effort. In general, the department will not approve plans of greater than three years' duration unless a longer duration is justified.

e. Location and frequency of sample collection.

f. Methods of data collection and analysis.

g. Record keeping and data reporting procedures.

61.11(3) *Department review of the plan.* The department will review monitoring plans and normally approve or disapprove the plan within 90 days of receipt. The department will work with the contact person identified in the plan to make any necessary changes prior to taking formal action. The department will use guidelines contained in the publications EPA Requirements for Quality Assurance Project Plans (EPA QA/R-5, 2001) and Volunteer Monitor's Guide to Quality Assurance Project Plans (1966, EPA 841-B-96-003) or equivalent updates to determine if the plans provide adequate quality assurance and quality control measures. Approval or disapproval of the plan will be in the form of a letter and approval may include conditions or limitations.

61.11(4) *Changes in monitoring plans.* The department must approve any changes to an approved monitoring plan. Data collected under a modified plan will not be considered credible data until such time as the department has approved the modifications. Modifications to an approved plan should be submitted at the earliest possible time to avoid interruptions in data collection and to ensure continuity of data.

61.11(5) *Appeal of disapproval.* If a monitoring plan submitted for approval is disapproved, the decision may be appealed by filing an appeal with the director within 30 days of disapproval. The form of the notice of appeal and appeal procedures are governed by 567—Chapter 7.

567—61.12(455B) Use of volunteer monitoring data. Data produced under an approved water quality monitoring plan will be considered credible data for the purposes listed in Iowa Code section 455B.194 if the following conditions are met.

61.12(1) *Data submittal.* A qualified volunteer monitor or qualified volunteer monitoring group must specifically request that data produced under an approved volunteer monitoring plan be considered credible data. A letter identifying the specific data must be submitted along with a certification from the volunteer or the person in responsible charge for volunteer groups that the data, to the best of the volunteer's or responsible person's knowledge, was produced in accordance with the approved volunteer monitoring plan. The department shall provide a standard format on the IOWATER Web site for submittal of qualified volunteer data and related information. The department encourages volunteers to enter monitoring data on the IOWATER volunteer monitoring database maintained by the department, but doing so does not constitute submittal to or acceptance of the data by the department for uses requiring credible data. Volunteer data shall be labeled as such in any departmental reports, Web sites, or databases.

61.12(2) *Department review of submitted data.* The department must review and approve the submitted data. The person submitting the data will be informed of the department's decision either to accept or reject the data. The department will attempt to resolve any apparent inconsistencies or questionable values in the submitted data prior to making a final decision.

567—61.13(455B) Department audits of volunteer monitoring activities. The department shall conduct field audits of a statistically valid and representative sample of volunteer data collection and analysis procedures to ensure compliance with an approved plan and may conduct confirmatory monitoring tests. Volunteers shall be informed of any audit results and be provided with an opportunity to address any concerns to the extent possible. The department reserves the right to rescind approval of an approved plan if it finds substantial problems that cannot be addressed in a timely manner to ensure the quality of the data being produced.

These rules are intended to implement Iowa Code chapter 455B, division III, part 1.

[Filed March 15, 1966; amended March 20, 1967, October 14, 1969, June 8, 1971,

June 26, 1972, July 12, 1972, February 13, 1974]

[Filed 6/28/76, Notice 5/3/76—published 7/12/76, effective 8/16/76]

[Filed 7/1/77, Notice 2/23/77—published 7/27/77, effective 8/31/77]

[Filed without Notice 7/28/77—published 8/24/77, effective 9/28/77]

[Filed 7/27/78, Notice 5/3/78—published 8/23/78, effective 9/27/78]

[Filed 2/2/79, Notice 11/1/78—published 2/21/79, effective 3/28/79]

[Filed 10/26/79, Notice 6/27/79—published 11/14/79, effective 12/19/79]

[Filed 8/29/80, Notice 6/25/80—published 9/17/80, effective 10/22/80]

[3/25/83, Notice 1/5/83—published 4/13/83, effective 5/18/83]

[Filed emergency 6/3/83—published 6/22/83, effective 7/1/83]

[Filed 12/2/83, Notice 6/22/83—published 12/21/83, effective 1/25/84]

[Filed 10/19/84, Notice 7/18/84—published 11/7/84, effective 12/12/84]

[Filed 7/12/85, Notice 3/13/85—published 7/31/85, effective 9/4/85]

[Filed 8/7/86, Notice 4/9/86—published 8/27/86, effective 10/1/86]

[Filed emergency 11/14/86—published 12/3/86, effective 12/3/86]

[Filed 3/30/90, Notice 8/9/89—published 4/18/90, effective 5/23/90]

[Filed 8/31/90, Notice 6/13/90—published 9/19/90, effective 10/24/90]

[Filed 10/26/90, Notice 7/11/90—published 11/14/90, effective 12/19/90]

[Filed 11/26/90, Notice 9/19/90—published 12/12/90, effective 1/16/91]

[Filed 7/19/91, Notice 2/20/91—published 8/7/91, effective 9/11/91]

[Filed 1/31/92, Notice 7/10/91—published 2/19/92, effective 3/25/92]

[Filed 2/28/92, Notice 11/13/91—published 3/18/92, effective 4/22/92]

[Filed 5/22/92, Notice 4/1/92—published 6/10/92, effective 7/15/92]

[Filed 7/31/92, Notice 5/13/92—published 8/19/92, effective 9/23/92]

[Filed 10/23/92, Notice 9/2/92—published 11/11/92, effective 12/16/92]

[Filed 5/21/93, Notice 2/17/93—published 6/9/93, effective 7/14/93]

[Filed 7/2/93, Notice 2/17/93—published 7/21/93, effective 8/25/93]

[Filed 10/22/93, Notice 8/18/93—published 11/10/93, effective 12/15/93]

[Filed 7/29/94, Notice 5/11/94—published 8/17/94, effective 9/21/94]

[Filed 5/19/95, Notice 2/15/95—published 6/7/95, effective 8/9/95]

[Filed 8/25/95, Notice 6/7/95—published 9/13/95, effective 10/18/95]

[Filed 2/23/96, Notice 12/20/95—published 3/13/96, effective 4/17/96]

[Filed 5/31/96, Notice 3/13/96—published 6/19/96, effective 7/24/96]

[Filed 1/24/97, Notice 10/9/96—published 2/12/97, effective 3/19/97]

[Filed 5/26/00, Notice 11/17/99—published 6/14/00, effective 7/19/00]

[Filed 9/29/00, Notice 5/17/00—published 10/18/00, effective 11/24/00]

[Filed 8/31/01, Notice 2/7/01—published 9/19/01, effective 10/24/01]

[Filed 5/24/02, Notice 1/9/02—published 6/12/02, effective 7/17/02]

[Filed 6/18/02, Notice 2/6/02—published 7/10/02, effective 8/14/02]