NR 212

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

BOX 7921
MADISON, WISCONSIN 53707

IN REPLY REFER TO: _____

STATE OF WISCONSIN)
) ss
DEPARTMENT OF NATURAL RESOURCES)

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TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETINGS:

I, Carroll D. Besadny, Secretary of the Department of Natural Resources and custodian of the official records of said Department, do hereby certify that the annexed copy of Natural Resources Board Order No. WQ-4-81 was duly approved and adopted by this Department on March 26, 1981. I further certify that said copy has been compared by me with the original on file in this Department and that the same is a true copy thereof, and of the whole of such original.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the official seal of the Department at General Executive Facility #2 in the City of Madison, this 14th day of July, 1981.

Carroll D. Besadny

Carroll D. Besadny, Secretary

(SEAL)

ORDER OF THE STATE OF WISCONSIN NATURAL RESOURCES BOARD

CREATING RULES

IN THE MATTER of creating chapter NR 212 of the Wisconsin Administrative Code pertaining to waste load allocated water quality related effluent limitations	WQ-4-81

Analysis Prepared by Department of Natural Resources

The Lower Fox River and the Upper Wisconsin River have been classified as water quality limited which means that the assimilative capacity of the streams are inadequate to maintain the water quality standards when industries and municipalities are discharging at best practicable treatment (BPT) and secondary treatment levels, respectively. Water quality limited segments require that the point source dischargers be limited to levels of discharge which will maintain the water quality standards. This is done by allocating a portion of the existing and, in some cases, enhanced assimilative capacity of each stream segment to each discharger to that segment. Since the total allowable loading which can be assimilated varies with the flow and temperature in the stream, the allocation to each discharger also varies. The pollutant being allocated is biochemical oxygen demand in the stream segment.

This rule establishes the procedures, methodologies and requirements to be used in determining the total allowable pollutant loadings and corresponding water quality related effluent limitations.

Pursuant to the authority vested in the State of Wisconsin Natural Resources Board by sections 147.04(5), 147.05, 147.25(3) and 227.014, Wisconsin Statutes, the State of Wisconsin Natural Resources Board hereby creates rules interpreting sections 147.04(5), 147.05 and 147.25(3), Wisconsin Statutes, as follows:

SECTION 1 - Chapter NR 212 is created to read:

Chapter NR 212

WASTE LOAD ALLOCATED
WATER QUALITY RELATED EFFLUENT LIMITATIONS

NR 212.01 Purpose
NR 212.02 Applicability
NR 212.03 Definitions
NR 212.04 Severability
NR 212.05 General
NR 212.06 Determination of the total maximum load
NR 212.07 Allocation for reserve capacity
NR 212.08 Allocation for margin of safety
NR 212.09 Nonpoint source allocation
NR 212.10 Point source allocations
NR 212.11 Modifications of point source allocations
NR 212.12 Instream aeration
NR 212.13 Flow reregulation
NR 212.40 Determination of lower Fox river water quality related effluent limitations
NR 212.60 Determination of upper Wisconsin river water quality related effluent limitations

NR 212.01 Purpose. The purpose of this chapter is to establish the procedures, methodologies and requirements to be used by the department for determining total maximum pollutant loadings and corresponding water quality related effluent limitations in accordance with ss. 147.04(5), 147.05 and 147.25(3), Stats. Such restrictions are established to attain and maintain the designated uses specified in the water quality standards appearing in chapters NR 102, NR 103 and NR 104, Wis. Adm. Code.

NR 212.02 Applicability. (1) The provisions of this chapter are applicable to water quality related effluent limitations for conventional pollutants, ammonia and phosphorus developed through waste load allocations and established under s. 147.05, Stats.

(2) Nothing in this chapter shall in anyway inhibit, override, preclude or prevent the department from issuing any permit with toxic effluent limits even if such permit limitations would result in more stringent limitations than provided in this chapter.

NR 212.03 Definitions. In addition to the definitions and abbreviations in sections NR 205.03 and NR 205.04, Wis. Adm. Code, the following definitions are applicable to terms used in this chapter:

(1) "Baseline load" means the reference load used in distributing all or part of the total maximum load among multiple point source dischargers to a water quality limited segment.

(2) "Categorical effluent limitation" means a point source effluent limitation for categories and classes of point sources other than publicly-owned treatment works achieved by application of the best practicable control technology currently available, the best conventional pollutant control technology, or the best available technology economically achievable as required by s. 147.04(2), Stats.; or means a point source effluent limitation for a publicly-owned treatment works achieved by application of secondary treatment as required by s. 147.04(4), Stats.

(3) "Conventional pollutant" means those pollutants identified in section 304(a)(4) of the federal clean water act amendments of 1977. These pollutants are; biological oxygen demand (BOD), total suspended solids (TSS), pH, fecal coliform and oil and grease.

(4) "Cost-effective analysis" means a systematic comparison of alternative means of meeting state water quality standards, effluent limitations or other treatment standards in order to identify the alternative which will minimize the total resources costs over the appropriate planning period. These resources costs include monetary costs and environmental as well as other nonmonetary costs.

(5) "Critical water quality conditions" means those water conditions upon which are based the most stringent water quality effluent limitations.

(6) "Effluent limitation" whenever used without qualification means any restriction including schedules of compliance, established by the department, on quantities, rates and concentrations of chemical, physical, biological, and other constituents which are discharged from point sources into waters of this state.

(7) "Flow reregulation" means any practice with respect to the available surface waters in a basin that would alter the stream flows from those which would occur under existing regimes.

(8) "Infiltration" means water other than waste water that enters a sewerage system, including sewer service connections, from the ground through such sources as defective pipes, pipe joints, connections, or manholes. Infiltration does not include, and is distinguished from, inflow.

(9) "Inflow" means water other than waste water that enters a sewerage system, including sewer service connections, from sources such as roof leaders, cellar drains, yard drains, area drains, foundation drains, drains from springs and swampy areas, manhole covers, cross connections between storm sewers and sanitary sewers, catch basins, cooling towers, storm waters, surface runoff, street wash waters, or drainage. Inflow does not include, and is distinguished from, infiltration.

(10) "Instream aeration" means techniques which increase the dissolved oxygen content of a receiving water. Those techniques include, but are not limited to, mechanical aeration devices, diffuser systems, and turbine venting.

(11) "Margin of safety" means a portion of the total maximum load which accounts for the uncertainties concerning the relationship between effluent limitations and water quality or provide a greater assurance that the water quality standards will be met. This portion of the total maximum load is not available for allocation to point sources.

(12) "New point source", for the purposes of this chapter, means a point source which commenced operation after January 1, 1980.

(13) "Nonpoint source" means a source of pollution resulting from a land management activity which contributes to runoff, seepage or percolation; and which is not defined as a point source.

(14) "Nonpoint source allocation" means that portion of the total maximum load distributed or apportioned to nonpoint sources and unavailable for allocation to point sources.

(15) "Point source allocation" means that portion of the total maximum load distributed or apportioned to point sources.

(16) "Publicly-owned point source" means any point source which is owned by a municipality.

(17) "Public sector growth" means an increase in waste water discharge from any person except industrial establishments, whose waste water is treated by a publicly-owned point source.

(18) "Reserve capacity" means that portion of the total maximum load reserved for allocation to new or expanding point sources.

(19) "Residential growth" means an increase in population.

(20) "Stream segment" means a portion of a stream including natural and artificial flowages.

(21) "Total maximum load" means the maximum quantity of a pollutant or pollutants that can be discharged into a water quality limited segment over a specified period of time to maintain the applicable water quality standards. The total maximum load is the sum of the point source allocation, the nonpoint source allocation, the reserve capacity and the margin of safety.

(22) "Waste load allocation" means the allocation resulting from the process of distributing or apportioning the total maximum load to each individual point source, nonpoint sources, reserve capacity and margin of safety.

(23) "Water quality limited segment" means any area or portion of a stream which will not meet the established water quality standard with application of only categorical effluent limitations to all point sources.

(24) "Water quality related effluent limitation" means a point source effluent limitation designed to meet applicable water quality standards and which is more restrictive than the categorical effluent limitations. For the purposes of this chapter, water quality related effluent limitations refer to those determined as a result of a waste load allocation.

(25) "Water quality standards" means administrative rules adopted as chapters NR 102, NR 103 and NR 104, Wis. Adm. Code, under authority of s. 144.025(2)(b), Stats.

(26) "WPDES permit" means a Wisconsin pollutant discharge elimination system permit for the discharge of pollutants issued by the department under ch. 147, Stats.

NR 212.04 Severability. Should any section, paragraph, phrase, sentence or clause of this chapter be declared invalid or unconstitutional for any reason, the remainder of this chapter shall not be affected thereby.

NR 212.05 General. (1) Water quality related effluent limitations and total maximum loads shall be established whenever categorical effluent limits required under s. 147.04, Stats., are less stringent than necessary to achieve the designated water quality standard. Water quality related effluent limitations for point sources shall be specified in a WPDES permit.

(2) For the purposes of this chapter compliance with water quality related effluent limitations is recognized as compliance with s. 147.02(4)(d), Stats.

(3) In no case shall the water quality related effluent limitations be less stringent than applicable categorical effluent limitations.

NR 212.06 Determination of the total maximum load. (1) When required by section NR 212.05, total maximum loads for stream segments shall be established based upon relevant water quality and quantity considerations including, but not limited to, streamflow, water temperature, pH, dissolved oxygen, suspended solids and hardness or other natural background conditions. The stream conditions to be used for calculating the total maximum load are specified in section NR 102.03(3), Wis. Adm. Code. Variable loadings may be established for a given stream segment to reflect the varying capacity of a stream to assimilate wastes under differing conditions when necessary supporting data is available.

(2) Total maximum loads shall be reviewed at least once every 5 years and if necessary, recalculated by the department prior to permit reissuance, based on factors which shall include but not be limited to changes in stream conditions and advancements in stream modeling techniques.

NR 212.07 Allocation for reserve capacity. The allocation for a reserve capacity for a particular stream segment shall be zero unless otherwise specified in sections NR 212.40 to NR 212.60.

NR 212.08 Allocation for margin of safety. The allocation for a margin of safety shall be zero unless otherwise specified in sections NR 212.40 to NR 212.60.

NR 212.09 Nonpoint source allocation. The allocation for nonpoint sources shall be zero unless otherwise specified in sections NR 212.40 to NR 212.60.

NOTE: For those stream conditions where the allocation of water quality related effluent limitations is necessary, nonpoint source efforts on stream segments will normally be accounted for in the water quality model or other technical analysis used to determine the total maximum load. In unforeseen circumstances requiring the specific allocation of a portion of the total maximum load for contributions from nonpoint sources, section NR 212.09 can be used. Direct control of contributions from nonpoint sources will be implemented through land management control practices and will not normally be included in a waste load allocation.

NR 212.10 Point source allocations. (1) The water quality related effluent limitations for a point source discharge to a stream segment which is not impacted by any other point source shall be calculated by subtracting any allocations for reserve capacity, margin of safety or nonpoint sources from the total maximum loading.

(2) The procedures for determining water quality related effluent limitations for point source dischargers to a stream segment affected by more than one discharger are found in sections NR 212.40 to NR 212.60.

(3) The department may permit point source water quality related effluent limitations to vary according to flow, temperature or other water quality conditions only when all of the following are met:

(a) The limitations shall result in the attainment of water quality standards; and

(b) During the term of the permit the discharger provides sufficient monitoring capability where such capability does not otherwise exist.

(4) Water quality related effluent limits shall be expressed as daily maximum loads. Consistent with techniques established under sections NR 212.40 through NR 212.60 effluent limits may be expressed as averages in conjunction with daily maximum limits if the permittee demonstrates that such limits would not increase the probability of water quality standards violations. The flow and temperature measurements of stream conditions for flow and temperature related permits may be based on averages in cases where averages better approximate actual river conditions.

NR 212.11 Modifications of point source allocations. (1) When a person contributing effluent to a publicly-owned point source covered by this chapter applies to terminate its contribution and to receive a separate WPDES permit, the procedures contained in ss. 147.025 and 147.03(2), Stats., shall apply. Any reallocation pursuant to such action shall only affect the person making application and the publicly-owned point source to which it contributes effluent.

(2) For stream segments where the reserve capacity allocation is zero, new or increased point source discharges may be allowable through the permit issuance or modification process under the following conditions:

(a) The person applying for the new or increased permit source discharge secures a legally binding agreement that one or more existing point source allocations shall be reduced by an amount sufficient to prevent the total maximum load from being exceeded; and

(b) The amounts by which the existing point source allocations is reduced account for the differences in waste characteristics and locations of the affected point sources; or

(c) The new or increased discharge shall only occur during stream conditions where that discharge will not cause the total maximum load to be exceeded.

NR 212.12 Instream aeration. (1) Total maximum loads established under this chapter may be calculated based on the use of instream aeration techniques when WPDES permit applicants meet both the following conditions:

(a) A cost-effectiveness analysis is submitted to the department which demonstrates that instream aeration is a satisfactory means of attaining water quality standards; and

(b) A demonstration is made to the satisfaction of the department that applicable water quality standards will be met and no environmental pollution as defined in s. 144.01(3), Stats., will occur.

(2) Instream aeration may not be used to accommodate new or increased discharges of pollutants either from new point sources or from the expansion of existing point sources, except that instream aeration may be available on a temporary basis to accommodate increased pollution loads due to the growth of a municipality when:

(a) The use of aeration for this purpose is restricted to residential or public sector growth;

(b) Adequate operation and maintenance of the publicly-owned point source exists;

(c) Excessive infiltration and inflow have been removed from the collection systems;

(d) No bypasses exist which are not authorized by the department; and

(e) The municipality has taken all reasonable steps to obtain federal and state financing for its point source.

(3) The use of instream aeration under sub. (2) shall be allowed for a period not to exceed 5 years, at which time the publicly-owned point source shall have sufficient treatment capability in place to meet the waste water treatment needs as required by an approved municipal waste water treatment facility plan developed under chapter NR 110, Wis. Adm. Code.

NR 212.13 Flow reregulation. (1) Total maximum loads established under this chapter may be calculated based on the use of flow reregulation techniques when WPDES permit applicants meet all of the following conditions:

(a) A cost-effectiveness analysis is submitted to the department which demonstrates that flow reregulation is a satisfactory means of attaining water quality standards.

(b) A technical analysis is presented to the satisfaction of the department which determines the critical water quality conditions for the affected stream segment as a function of the flow reregulation technique.

(c) Legally binding assurances are provided to the satisfaction of the department that the entity responsible for reregulating flows on the affected stream segment will undertake the agreed-upon flow reregulation activities.

(d) The flow reregulation does not interfere with the uses for which the impoundment was authorized.

(2) Flow reregulation may not be used to accommodate new discharges of pollutants either from new point sources or from the expansion of existing point sources.

(3) Flow reregulation may not be accomplished by the construction of new impoundments built for the primary purpose of increasing flows to accommodate pollution loadings.

(4) Flow reregulation may not be accomplished by flow augmentation practices which would increase the overall quantity of surface water in the basin. Prohibited practices include interbasin transfers or groundwater pumping.

NR 212.40 Determination of lower Fox river water quality related effluent limitations. Effluent limitations for point sources discharging BOD_5 to the lower Fox river shall be calculated according to the procedures contained in this section. These limitations shall apply from May 1 to October 31 annually.

(1) Total maximum daily load for BOD_5. (a) The total maximum daily BOD loads which are available for allocation to point sources discharging to the lower Fox river between milepoints 40.0 and 32.4 are shown in Table 1-a.

(b) The total maximum daily BOD_5 loads which are available for allocation to point sources discharging to the lower Fox river between milepoints 32.4 and 19.2 are shown in Table 1-b.

(2) Determine baseline loads for each point source subject to the waste load allocation. (a) Publicly-owned point sources between milepoints 40.0 and 19.2. The baseline load expressed in pounds per day for each publicly-owned point source shall be calculated as follows:

Baseline Load = (Q) (8.34)(60)
Where: Q = The average daily flow for the publicly-owned point source during 1976 and 1977 expressed in millions of gallons per day.
8.34 = Conversion factor
60 = Concentration of BOD_5 expressed in milligrams per liter.

(b) Nonpublicly-owned point sources between milepoints 40.0 and 19.2. The baseline load expressed in pounds per day for each nonpublicly-owned point source shall be calculated as follows:

Baseline Load = (BPT) (Production) (0.85)
Where: BPT = The final best practicable waste treatment effluent limitations for the point source as provided in chapters NR 284 and NR 285, Wis. Adm. Code, expressed as pounds of BOD_5 per ton of production. If chapters NR 284 and NR 285, Wis. Adm. Code, are not applicable, the final best practicable waste treatment effluent limitations as determined under chapter NR 217, Wis. Adm. Code, shall apply.
Production = The maximum weekly off-machine production during 1973 expressed as tons per day.
0.85 = Adjustment factor.

(3) Determine the reserve capacity adjustment. The reserve capacity for each publicly-owned point source shall be calculated as follows:

Reserve Capacity = (P) (124) (8.34) (60)

Where: P = Projected population change for the area served by the publicly-owned point source between the years 1977 and 2000 expressed in millions of persons.

124 = Projected per-capita waste water flow expressed in gallons per day.

8.34 = Conversion factor.

60 = Concentration of BOD_5 expressed in milligrams per liter.

(4) Determine the adjustments to the baseline loads. (a) The adjusted baseline load for each publicly-owned point source shall be equal to the baseline load for the source calculated in sub. (2)(a) plus the reserve capacity for the same source calculated in sub. (3).

(b) The adjusted baseline load for each nonpublicly-owned point source shall be calculated as follows:

$$\text{Adjusted Baseline Load} = (BL) - \frac{(BL)}{\text{Total BL}} \times (\text{Total Reserve Capacity})$$

Where: BL = The baseline load for the nonpublicly-owned point source as determined using the procedures in sub. (2)(b)

Total BL = The sum of all the baseline loads for nonpublicly-owned point sources calculated in sub. (2)(b) within the applicable stream segment defined in sub. (1).

Total Reserve Capacity = The sum of all the reserve capacities for publicly-owned point sources calculated in sub. (3) within the applicable stream segment defined in sub. (1).

(5) Determine the allocation for each point source. The allocation for each point source shall be calculated as follows:

$$\text{Point Source Allocation} = (\text{Adjusted Baseline Load}) \frac{(T)}{C+D}$$

Where: Adjusted Baseline Load = The adjusted baseline load for the point source calculated in sub. (4)

T = The applicable total maximum daily BOD_5 load available for allocation as shown in sub. (1)

C = The sum of all the adjusted baseline loads within the applicable stream segment as defined in sub. (1) for publicly-owned point sources calculated in sub. (4)(a).

D = The sum of all the adjusted baseline loads within the applicable stream segment defined in sub. (1) for nonpublicly-owned point sources calculated in sub. (4)(b).

(6) For purposes of determining compliance with water quality related effluent limits, the following conditions shall be met:

(a) For a point source discharging into the lower Fox river from milepoints 40.0 through 19.2, the sum of the actual daily discharges for any 7-consecutive-day-period may not exceed the sum of the daily point source allocation values calculated under sub. (5) for the same 7-consecutive-day-period; and

(b) For any one day period:

1. For a point source discharging into the lower Fox river between milepoints 40.0 through 32.4, the actual discharge may not exceed 135% of the allocation for that day as calculated under sub. (5).

2. For a point source discharing into the lower Fox river between milepoints 32.4 and 19.2, the actual discharge may not exceed 128.9% of the allocation for that day as calculated under sub. (5).

(7) The flow and temperature conditions used to determine compliance with permit effluent limits shall be the representative measurements of the flow averaged over the previous 4 days and temperature of the previous day.

NR 212.60 Determination of upper Wisconsin river water quality related effluent limitations. Effluent limitations for point sources discharging BOD_5 to the upper Wisconsin river shall be calculated according to the procedures contained in this section. These limitations shall apply from May 1 to October 31 annually.

(1) Determine baseline loads for each point source subject to the waste load allocation. (a) The baseline load for each publicly-owned point source located between milepoints 205.3 and 171.9 shall be calculated as follows:

Baseline Load = (Q) (8.34) (60)
Where Q = The average daily flow for the publicly-owned point source during 1978 expressed in millions of gallons per day.
8.34 = Conversion factor.
60 = Concentration of BOD_5 expressed in milligrams per liter.

(b) The baseline load for each nonpublicly-owned point source located between milepoints 205.3 and 171.9 shall be calculated as follows:

Baseline Load = (BPT) (Production)
Where BPT = The final best practicable waste treatment effluent limitations for the point source as provided in chapters NR 284 and NR 285, Wis. Adm. code, expressed as pounds of BOD_5 per ton of production. If chapters NR 284 and NR 285, Wis. Adm. Code, do not apply, the best practicable waste treatment effluent limitations as determined under chapter NR 217, Wis. Adm. Code, shall apply.
Production = The annual average off-machine production during 1978 expressed as tons per day.

(c) The baseline load for such publicly-owned point source located between milepoints 271.1 and 235.4 shall be calculated as follows:

Baseline Load = (Q) (8.34) (30)
Where Q = The design flow for the publicly-owned point source expressed in millions of gallons per day.
8.34 = Conversion factor
30 = Concentration of BOD_5 expressed in milligrams per liter.

(d) The baseline load for each nonpublicly-owned point source with best practicable waste treatment effluent limitations of less than 500 pounds per day located between milepoints 271.1 and 235.4 shall be calculated as follows:

Baseline Load = (BPT) (Production)
Where BPT = The final best practicable waste treatment effluent limitations for the point source as provided in chapters NR 284 and NR 285, Wis. Adm. Code, expressed as pounds of BOD_5 per ton of production. If chapters NR 284 and NR 285, Wis. Adm. Code, do not apply, the best practicable waste treatment effluent limitations as determined under chapter NR 217, Wis. Adm. Code, shall apply.
Production = The maximum weekly off-machine production during 1979 expressed as tons per day.

(e) The baseline load for each nonpublicly-owned point source with best practicable waste treatment effluent limitations of BOD_5 equal to or exceeding 500 pounds per day located between milepoints 271.1 and 235.4 shall be calculated as follows:

Baseline Load = (BPT) (Production)
Where BPT = The final best practicable waste treatment effluent limitations for the point source as provided in chapters NR 284 and NR 285, Wis. Adm. Code, expressed as pounds of BOD_5 per ton of production. If chapters NR 284 and NR 285, Wis. Adm. Code, do not apply, the best practicable waste treatment effluent limitations as determined under chapter NR 217, Wis. Adm. Code, shall apply.
Production = The average weekly off-machine production expressed as tons per day from March to December 1973 for point sources located between milepoints 271.0 and 258.5 and the BPT WPDES permit limits for 1978 for point sources located between milepoints 258.4 and 258.2 and the average weekly off-machine production expressed as tons per day during 1974 for point sources located between milepoints 258.19 and 249.0 and the average weekly off-machine production expressed as tons per day during 1973 plus the woodroom allowance for sources located between milepoints 248.9 and 235.9.

(f) The baseline load for each publicly-owned point source located between milepoints 341.4 and 305.9 shall be calculated as follows:

Baseline Load = (Q) (8.34) (30)
Where Q = The design flow for the publicly-owned point source located between milepoints 341.4 and 313.2 and the year 2000 flow projection for those located between milepoints 313.3 and 305.9 expressed in millions of gallons per day.
8.34 = Conversion factor.
30 = Concentration of BOD_5 expressed in milligrams per liter.

(g) The baseline load for each nonpublicly-owned point source located between milepoints 341.4 and 305.9 shall be calculated as follows:

Baseline Load = (BPT) (Production)
Where BPT = The final best practicable waste treatment effluent limitations for the point source as provided in chapters NR 284 and NR 285, Wis. Adm. Code, expressed as pounds of BOD_5 per ton of production. If chapters NR 284 and NR 285, Wis. Adm. Code, do not apply, the best practicable waste treatment effluent limitations as determined under chapter NR 217, Wis. Adm. Code, shall apply.
Production = The annual average off-machine production during 1978 expressed as tons per day.

(2) Determine the allocation for each point source. (a) The allocation for each publicly-owned point source located between milepoints 205.3 and 171.9 shall be its baseline load as determined in sub. (1)(a).

(b) The allocation for each nonpublicly-owned point source located between milepoints 205.3 and 171.9 shall be calculated as follows:

$$\text{Point Source Allocation} = BL\left(\frac{T}{D}\right)$$

Where BL = The baseline load for the individual point source calculated under sub. (1)(b)

T = The total maximum daily BOD_5 load available for allocation as shown in Table 1-m minus the sum of the point source allocations as determined in par. (a)

D = The sum of the baseline loads for nonpublicly-owned point sources calculated under sub. (1)(b).

For purposes of determining compliance with water quality related effluent limits, the following conditions shall be met:

1. The sum of the actual daily discharges for any 5-consecutive-day-period may not exceed the sum of the daily point source allocation values calculated under the formula for the same 5-consecutive-day-period; and

2. For any one day period, the actual discharge for the point source may not exceed 122.6% of the allocation for that day as calculated under the formula.

(c) The allocation for each publicly-owned point source located between milepoints 271.0 and 235.4 shall be its baseline load as determined under sub. (1)(c).

(d) The allocation for each nonpublicly-owned point source located between milepoints 271.1 and 235.4 with best practicable waste treatment effluent limits of less than 500 pounds of BOD_5 per day shall be its baseline load as determined under sub. (1)(d).

(e) The allocation for each nonpublicly-owned point source located between milepoints 271.1 and 258.5 with best practicable waste treatment effluent limits equal to or exceeding 500 pounds of BOD_5 per day shall be a reduction in its discharge to levels appearing in Table 2-m. For purposes of determining compliance with water quality related effluent limits, the following conditions shall be met:

1. The sum of the actual daily discharges for any 5-consecutive-day period may not exceed the sum of the daily point source allocation values calculated under Table 2-m for the same 5-consecutive-day period.

2. For any one day period, the actual discharge for the point source may not exceed 102.3% of the allocation for that day calculated for those flow/temperature regimes identified as Condition B in Table 2-m or 117.3% of the allocation calculated for those flow/temperature regimes identified as Condition C in Table 2-m. No percentage adjustment shall be made for conditions identified as Condition A in Table 2-m.

(f) The allocation for each nonpublicly-owned point source located between milepoints 258.4 and 258.2 with best practicable waste treatment effluent limits equal to or exceeding 500 pounds of BOD_5 per day shall be a reduction in its discharge to levels appearing in Table 3-m. For purposes of determining compliance with water quality related effluent limits, the following conditions shall be met:

1. The sum of the actual daily discharges for any 5-consecutive-day period may not exceed the sum of the daily point source allocation values calculated under Table 3-m for the same 5-consecutive-period.

2. For any one day period, the actual discharge for the point source may not exceed 102.3% of the allocation for that day calculated for those flow/temperature regimes identified as Condition B in Table 3-m or 117.3% of the allocation calculated for those flow/temperature regimes identified as Condition C in Table 3-m. No percentage adjustment shall be made for conditions identified as Condition A in Table 3-m.

(g) The allocation for each nonpublicly-owned point source located between milepoints 258.19 and 249.0 with best practicable waste treatment effluent limits equal to or exceeding 500 pounds of BOD_5 per day shall be a reduction in its discharge to levels appearing in Table 4-m.

(h) The allocation for each nonpublicly-owned point source located between milepoints 248.9 and 235.4 with best practicable waste treatment effluent limits equal to or exceeding 500 pounds of BOD_5 per day shall be a reduction in its discharges to levels appearing in Table 5-m. For purposes of determining compliance with water quality related effluent limits, the following conditions shall be met:

1. The sum of the actual daily discharges for any 5-consecutive-day period may not exceed the sum of the daily point source allocation values calculated under Table 5-m for the same 5-consecutive-day period.

2. For any one day period, the actual discharge for the point source may not exceed 117.3% of the allocation for that day calculated for those flow/temperature regimes identified as Condition C in Table 5-m. No percentage adjustment shall be made for conditions identified as Condition A or B in Table 5-m.

(i) The allocation for each publicly-owned point source located between milepoints 341.4 and 305.9 shall be its baseline load as determined under sub. (1)(f).

(j) The allocation for each nonpublicly-owned point source located between milepoints 341.4 and 313.2 with best practicable waste treatment limits equal to or exceeding 550 pounds of BOD_5 per day shall be a reduction in its discharge to levels appearing in Table 6-m. For purposes of determining compliance with water quality related effluent limits, the following conditions shall be met:

1. The sum of the actual daily discharges for any 5-consecutive-day period may not exceed the sum of the daily point source allocation values calculated under Table 6-m for the same 5-consecutive-day period.

2. For any one day period, the actual discharge for the point source may not exceed 106.5% of the allocation for that day calculated for those flow/temperature regimes identified as Condition B in Table 6-m. No percentage adjustments shall be made for conditions identified as Condition A in Table 6-m.

(k) The allocation for each nonpublicly-owned point source located between milepoints 313.19 and 305.9 with best practicable waste treatment limits equal to or exceeding 550 pounds of BOD_5 per day shall be a reduction in its discharge to levels appearing in Table 7-m. For purposes of determining compliance with water quality related effluent limits, the following conditions shall be met:

1. The sum of the actual daily discharges for any 5-consecutive-day period may not exceed the sum of the daily point source allocation values calculated under Table 7-m for the same 5-consecutive-day period.

TABLE 1-a

LBS PER DAY OF BOD_5
(river mile 40.0 to 32.4)

MAY-JUNE
(PREVIOUS FOUR DAY AVERAGE)

Flow Rate (CFS)

TEMPERATURE (DEG F) (PREVIOUS DAY AVERAGE)

	750 or less	751 to 850	851 to 950	951 to 1050	1051 to 1150	1151 to 1250	1251 to 1350	1351 to 1450	1451 to 1550	1551 to 1650	1651 to 1750	1751 to 1850	1851 to 1950	1951 to 2050	2051 to 2150	2151 to 2250	2251 to 2350	2351 to 2450	2451 to 2550	2551 to 2650	2651 to 2750	2751 to 2850	2851 to 2950	2951 to 3500	3501 or more
99-84	13458	13458	13458	13458	15592	15819	16031	16318	16590	16877	17179	17498	17829	18176	18539	18916	19309	19717	20140	20578	21031	21499	21982	22481	26597
83	13458	13458	13458	13458	15935	16162	16404	16661	16933	17220	17522	17839	18172	18519	18882	19259	19652	20060	20483	20921	21374	21842	22325	22823	
82	13458	13458	13458	13458	16263	16490	16732	16988	17260	17547	17850	18187	18499	18847	19209	19587	19980	20387	20810	21248	21701	22170	22653	23151	
81	15820	15986	16167	16364	16576	16802	17044	17301	17573	17850	18182	18480	18812	19159	19522	19899	20292	20700	21123	21561	22014	22482	22965	23464	
80	16117	16283	16465	16661	13873	17100	17342	17599	17870	18158	18460	18777	19109	19457	19819	20197	20590	20997	21420	21858	22311	22780	23263	23761	
79	16399	16566	16747	16944	17155	17382	17624	17881	18153	18440	18742	19059	19392	19739	20102	20479	20872	21280	21703	22141	22594	23062	23545	24044	
78	16667	16833	17014	17211	17423	17649	17891	18148	18420	18707	19009	19327	19659	20006	20369	20747	21139	21547	21970	22400	22861	23329	23812	24311	
77	16919	17085	17267	17463	17675	17901	18143	18400	18672	18959	19261	19579	19911	20258	20621	20999	21391	21799	22222	22660	23113	23581	24065	24563	
76	17156	17322	17503	17700	17912	18138	18380	18637	18909	19196	19498	19813	20148	20495	20858	21236	21628	22036	22459	22897	23350	23818	24301	24800	
75	17378	17544	17725	17922	18133	18360	18602	18859	19131	19418	19720	20037	20370	20717	21080	21457	21850	22258	22681	23119	23572	24040	24523	26597	
74	17584	17751	17932	18128	18340	18567	18809	19066	19338	19625	19927	20244	20576	20924	21286	21664	22057	22465	22887	23325	23778	24249	24830		
73	17776	17942	18123	18320	18522	18758	19000	19257	19529	19816	20118	20436	20768	21115	21478	21856	22248	22656	23079	23517	23970	24438	24921		
72	17952	18118	18300	18496	18708	18935	19177	19433	19705	19993	20295	20612	20944	21292	21654	22032	22425	22832	23255	23693	24146	24615	25098		
71	18113	18280	18461	18658	18869	19096	19338	19595	19867	20154	20456	20773	21106	21453	21816	22193	22586	22994	23417	23855	24308	24776	25259		
70	18260	18426	18607	18804	19015	19242	19484	19741	20013	20300	20602	20919	21252	21599	21962	22339	23732	23140	23563	24001	24454	24922	25405		
69	18391	18557	18738	18935	19146	19373	19615	19872	20144	20431	20733	21050	21383	21730	22093	22470	22863	23271	23694	24132	24585	25053	25536		
68	18506	18673	18854	19051	19262	19489	19731	19988	20260	20547	20849	21166	21499	21846	22209	22586	22979	23387	23810	24248	24701	25169	25698		
67	18607	18773	18955	19151	19363	19590	19832	20088	20360	20648	20950	21257	21599	21947	22309	22687	23081	23487	23910	24348	24801	25270	25753		
66	18693	18859	19041	19237	19449	19678	19917	20174	20446	20733	21035	21353	21685	22032	22395	22773	23165	23573	23996	24434	24882	25355	25839		
65	18763	18930	19111	19308	19519	19746	19988	20245	20517	20804	21106	21423	21755	22103	22465	22843	26597								
64	18819	18985	19166	19363	19574	19801	20043	20300	20572	20859	21161	21478	21811	22158	22521	22898									
63	18859	19025	19207	19403	19615	19841	20083	20340	20612	20899	21201	21519	21851	22198	22561	22939									
62	18884	19050	19232	19428	19640	19866	20108	20365	20637	20924	21226	21544	21876	22223	22586	22964									
61	18894	19060	19242	19438	19650	19876	20118	20375	20647	20934	21236	26597													
58-60	18889	19055	19236	19433	19644	19871	20113	20370	20642	20929	21231														
54-57	18350	18350	18350	18350	18350	20500	20500	25300	25300	25300	25300														
50-53	17800	17800	20200	20200	20200	25000	25000	26597																	
46-49	19150	19150	25500	25500	25500	26597																			
42-45	25250	25250	26597																						
41-32	26597																								

all values in this area are 26,597

JULY

TABLE 1-a (cont'd)
LBS PER DAY OF BOD_5
(river mile 40.0 to 32.4)

Flow Rate (CFS) (PREVIOUS FOUR DAY AVERAGE)

TEMPERATURE (DEG F) (PREVIOUS DAY AVERAGE)

	750 or less	751 to 850	851 to 950	951 to 1050	1051 to 1150	1151 to 1250	1251 to 1350	1351 to 1450	1451 to 1550	1551 to 1650	1651 to 1750	1751 to 1850	1851 to 1950	1951 to 2050	2051 to 2150	2151 to 2250	2251 to 2350	2351 to 2450	2451 to 2550	2551 to 2650	2651 to 2750	2751 to 2850	2851 to 2950	2951 to 3500	3501 or more
99 - 84										13458	14027	14607	15179	15742	16298	16846	17386	17917	18441	18957	19464	19964	20456	20788	26597
83								13458	13473	14058	14634	15202	15762	16315	16859	17395	17924	18444	18956	19460	19956	20444	20925	21397	
82	all values in this area are 13,458						13458	13497	14078	14650	15215	15779	16321	16862	17395	17919	18436	18945	19445	19938	20423	20900	21368	21329	
81						13458	13510	14087	14657	15218	15771	16317	16854	17303	17905	18418	18923	19420	19910	20391	20864	21329	21786	22236	
80					13458	13513	14087	14653	15210	15760	16302	16836	17362	17880	18389	18891	19385	19871	20348	20818	21280	21733	22179	22617	
79				13458	13505	14075	14638	15192	15739	16277	16807	17330	17844	18350	18849	19339	19821	20296	20762	21220	21670	22112	22547	22973	
78			13458	13487	14054	14613	15164	15707	16242	16769	17287	17798	18301	18796	19283	19761	20232	20695	21150	21596	22035	22466	22889	23303	
77		13458	13458	14022	14577	15125	15664	16196	16719	17235	17742	18241	18733	19216	19691	20159	20618	21069	21512	21948	22375	22794	23205	23608	
76		13458	13980	14532	15076	15611	16139	16659	17171	17675	18171	18659	19139	19611	20074	20530	20978	21418	21850	22273	22689	23097	23496	23888	
75	13458	13927	14475	15016	15548	16073	16589	17098	17598	18090	18575	19051	19520	19980	20432	20877	21313	21741	22161	22574	22978	23374	23762	24143	
74	13864	14409	14946	15475	15996	16509	17014	17511	17999	18480	18953	19418	19875	20324	20765	21198	21622	22039	22448	22849	23241	23626	24003	24372	
73	14331	14865	15391	15908	16418	16919	17413	17898	18375	18845	19306	19760	20205	20642	21072	21493	21906	22312	22709	23098	23479	23853	24218	26597	
72	14774	15296	15810	16316	16814	17304	17786	18260	18726	19184	19634	20076	20510	20936	21353	21763	22165	22559	22945	23322	23692	24054	24408		
71	15191	15702	16204	16699	17185	17664	18134	18597	19051	19498	19936	20367	20789	21203	21610	22008	22398	22781	23155	23521	23880	24230	24572		
70	15583	16082	16573	17056	17531	17998	18457	18908	19351	19786	20213	20632	21043	21446	21841	22227	22606	22977	23340	23695	24041	24380	24711		
69	15949	16437	16917	17388	17852	18307	18755	19194	19626	20049	20465	20872	21271	21663	22046	22421	22789	23148	23499	23843	24178	24505	24825		
68	16290	16766	17235	17695	18147	18591	19027	19455	19875	20287	20691	21087	21474	21854	22226	22590	22946	23294	23634	23965	24289	24605	24913		
67	16606	17071	17527	17976	18416	18849	19273	19690	20098	20499	20891	21276	21652	22021	22381	22733	23078	23414	26597						
66	16896	17349	17794	18232	18661	19082	19495	19900	20297	20686	21067	21440	21805	22161	22510	22851	23184	23509							
65	17161	17603	18036	18462	18880	19289	19691	20084	20470	20847	21217	21578	21931	22277	22614	22944	26597								
64	17401	17831	18253	18667	19073	19471	19861	20243	20617	20983	21341	21691	22033	22367	22693	23011									
63	17615	18033	18444	18847	19241	19628	20006	20377	20739	21094	21440	21779	22109	22432	22746	23052									
62	17803	18211	18610	19001	19384	19759	20126	20485	20836	21179	21514	21841	22160	22471	22774	23069									
61 or less	17967	18362	18750	19130	19501	19865	20220	20568	20907	21239	21562	21878	22185	22485	22776	23060									

all values in this area are 26,597

TABLE 1-a (cont'd)
LBS PER DAY OF BOD5
(river mile 40.0 to 32.4)

AUGUST
Flow Rate (CFS) (PREVIOUS FOUR DAY AVERAGE)

TEMPERATURE (DEG F) (PREVIOUS DAY AVERAGE)

	750 or less	751 to 850	851 to 950	951 to 1050	1051 to 1150	1151 to 1250	1251 to 1350	1351 to 1450	1451 to 1550	1551 to 1650	1651 to 1750	1751 to 1850	1851 to 1950	1951 to 2050	2051 to 2150	2151 to 2250	2251 to 2350	2351 to 2450	2451 to 2550	2551 to 2650	2651 to 2750	2751 to 2850	2851 to 2950	2951 to 3500	3501 or more
99-84												13458	13566	14091	14607	15112	15609	16096	16573	17041	17500	17949	18388	19318	26597
83											13458	13630	14150	14660	15161	15652	16131	16606	17069	17522	17966	18400	18825	19240	
82										13458	13680	14203	14708	15203	15689	16166	16633	17090	17538	17977	18406	18826	19236	19632	
81		all values in this area are 13,458							13458	13740	14249	14749	15239	15720	16192	16653	17106	17549	17982	18406	18821	19226	19621	20007	
80								13458	13786	14290	14784	15270	15745	16211	16668	17115	17553	17981	18400	18810	19209	19600	19981	20352	
79							13458	13825	14324	14814	15294	15764	16225	16677	17119	17551	17975	18388	18792	19187	19572	19948	20314	20671	
78						13458	13859	14353	14837	15312	15777	16233	16679	17116	17544	17962	18370	18769	19159	19539	19909	20270	20622	20964	
77					13458	13887	14375	14854	15324	15784	16235	16676	17108	17530	17943	18346	18740	19124	19499	19864	20220	20567	20903	21231	
76				13458	13908	14392	14866	15330	15785	16231	16667	17093	17510	17918	18316	18705	19084	19453	19813	20164	20505	20837	21158	21472	
75			13458	13924	14402	14871	15330	15780	16220	16651	17073	17485	17887	18280	18663	17037	19402	19757	20102	20438	20765	21082	21389	21688	
74	13458	13458	13934	14407	14870	14324	15769	16204	16630	17046	17453	17850	18238	18616	18985	19344	19694	20034	20365	20686	20998	21301	21594	21877	
73	13460	13937	14405	14864	15313	15752	16182	16602	17013	17415	17807	18189	18563	18926	19280	19625	19960	20286	20602	20909	21206	21494	21772	22041	
72	13935	14398	14851	15295	15729	16154	16569	16975	17371	17758	18135	18503	18862	19211	19550	19880	20200	20512	20813	21105	21388	21661	21924	22179	
71	14384	14832	15271	15700	16119	16529	16930	17321	17703	18075	18438	18791	19135	19469	19794	20109	20415	20711	20998	21276	21544	21802	22051	26597	
70	14807	15241	15665	16079	16484	16879	17265	17642	18009	18366	18714	19053	19382	19702	20012	20313	20604	20885	21158	21420	21674	21917	22152		
69	15205	15623	16033	16432	16823	17203	17575	17937	18289	18632	18965	19289	19604	19909	20204	20490	20767	21034	21291	21539	21778	22007	22227		
68	15576	15980	16375	16760	17136	17502	17858	18206	18543	18871	19190	19499	19799	20090	20370	20642	20904	21156	21399	21632	21856	22071	22276		
67	15922	16311	16691	17062	17423	17774	18116	18449	18772	19085	19389	19684	19969	20245	20511	20767	21051	21252	21481	21699	21909	22109	22299		
66	16242	16616	16982	17337	17684	18021	18348	18666	18974	19273	19562	19842	20113	20374	20625	20867	21100	21323	26597						
65	16536	16896	17246	17587	17919	18241	18554	18857	19151	19435	19710	19975	20231	20477	20714	20941	26597								
64	16804	17149	17485	17811	18128	18436	18734	19023	19302	19571	19831	20082	20323	20555	20777	20990									
63	17046	17377	17698	18010	18312	18605	18888	19162	19427	19681	19927	20163	20389	20606	20814	21012									
62	17262	17578	17885	18182	18470	18748	19017	19276	19756	19766	19997	20218	20430	20632	20825	21009									
61 or less	17453	17754	18046	18329	18602	18865	19119	19364	19599	19825	20041	20247	20445	20632	20810	20979	all values in this area are 26,597								

TABLE 1-a (cont'd)

SEPTEMBER

LBS PER DAY OF BOD_5

Flow Rate (CFS) (PREVIOUS FOUR DAY AVERAGE) (river mile 40.0 to 32.4)

TEMPERATURE (DEG F) (PREVIOUS DAY AVERAGE)

	750 or less	751 to 850	851 to 950	951 to 1050	1051 to 1150	1151 to 1250	1251 to 1350	1351 to 1450	1451 to 1550	1551 to 1650	1651 to 1750	1751 to 1850	1851 to 1950	1951 to 2050	2051 to 2150	2151 to 2250	2251 to 2350	2351 to 2450	2451 to 2550	2551 to 2650	2651 to 2750	2751 to 2850	2851 to 2950	2951 to 3500	3501 or more
99-84																	13458	13873	14433	15020	15633	16273	16940	17633	26597
83															13458	13458	13947	14483	15046	15635	16251	16894	17563	18258	
82			all values in this area are 13,458											13458	13537	14023	14535	15074	15639	16231	16848	17425	18163	18864	
81													13458	13639	14100	14589	15103	15645	16213	16807	17428	18076	18750	18451	
80											13458	13458	13743	14180	14644	15135	15652	16196	16767	17364	17987	18632	19344	20017	
79										13458	13462	13849	14262	14702	15169	15662	16182	16728	17301	17900	18527	19179	19858	20564	
78									13458	13593	13956	14346	14762	15204	15673	16169	16691	17240	17816	18418	19046	19701	20383	21081	
77							13458	13458	13727	14066	14431	14823	15242	15687	16159	16657	17182	17733	18311	18915	19547	20204	20888	21599	
76					13458	13458	13575	13863	14177	14519	14887	15281	15702	16150	16624	17125	17652	18206	18786	19394	20027	20687	21374	22087	
75			13458	13458	13499	13736	14000	14291	14608	14925	15323	15720	16143	16593	17070	17573	18103	18659	19242	19852	20488	21151	21840	22556	
74	13458	13458	13499	13686	13900	14140	14406	14700	15019	15366	15739	16138	16564	17017	17496	18002	18534	19093	19679	20291	20929	21595	22286	23005	
73	13577	13713	13876	14065	14281	14524	14793	15089	15411	15760	16135	16537	16966	17421	17903	18411	18946	19507	20096	20710	21351	22019	22713	23134	
72	13928	14067	14233	14425	14643	14888	15160	15458	15783	16134	16512	16917	17348	17806	18290	18801	19338	19902	20493	21110	21753	22424	23120	23844	
71	14261	14402	14570	14764	14986	15233	15507	15808	16135	16489	16870	17277	17710	18171	18657	19171	19711	20277	20870	21490	22136	22809	23508	24234	
70	14573	14717	14888	15805	15308	15558	15835	16138	16468	16825	17208	17617	18053	18516	19005	19521	20064	20633	21228	21850	22499	23174	23878	24604	
69	14866	15013	15186	15385	15611	15864	16143	16449	16781	17140	17526	17938	18377	18842	19334	19852	20397	20968	21566	22191	22842	23520	24224	26597	
68	15140	15289	15464	15666	15895	16150	16432	16840	17075	17436	17824	18239	18680	19148	19642	20163	20711	21285	21885	22512	23166	23846	24553		
67	15394	15545	15723	15928	16159	16416	16701	17011	17349	17713	18103	18520	18964	19434	19931	20455	21005	21581	22184	22814	23470	24153	24862		
66	15628	15782	15962	16169	16403	16663	16950	17263	17603	17970	18363	18782	19229	19701	20201	20727	21279	21858	22464	23096	23755	24440	25152		
65	15842	15999	16182	16391	16628	16890	17180	17495	17838	18207	18602	19025	19473	19949	20450	20979	26597								
64	16037	16196	16382	16594	16833	17098	17390	17708	18053	18425	18823	19247	19699	20176	20681	21212									
63	16213	16374	16562	16777	17018	17286	17580	17901	18249	18623	19023	19450	19904	20384	20891	21425									
62	16369	16533	16723	16940	17184	17454	17753	18074	18424	18801	19204	19634	20090	20573	21082	21618			all values in this area are 26,597						
61	16505	16671	16864	17084	17330	17603	17902	18228	18581	18960	19365	19798	20256	20742	21254	21792									
58-60	16621	16790	16986	17208	17457	17732	18034	18362	18717	19099	19507	19942	20403	20891	21405	21946									
54-57	16750	16750	16250	16250	16250	17800	17800	22100	22100	22100	22100	26597													
50-53	15700	15700	17300	17300	17300	21800	21800	26597																	
46-49	16500	16500	22350	22350	22350	26957																			
42-45	21550	21550	26597																						
32-41	26597																								

TABLE 1-a (cont'd)
LBS PER DAY OF BOD_5
(river mile 40.0 to 32.4)

OCTOBER
(PREVIOUS FOUR DAY AVERAGE)

Flow Rate (CFS)

TEMPERATURE (DEG F) (PREVIOUS DAY AVERAGE)

	750 or less	751 to 850	851 to 950	951 to 1050	1051 to 1150	1151 to 1250	1251 to 1350	1351 to 1450	1451 to 1550	1551 to 1650	1651 to 1750	1751 to 1850	1851 to 1950	1951 to 2050	2051 to 2150	2151 to 2250	2251 to 2350	2351 to 2450	2451 to 2550	2551 to 2650	2651 to 2750	2751 to 2850	2851 to 2950	2951 to 3500	3501 or more
99-84																						13458	23925	14629	26597
83																				13458	13458	13999	14671	15385	
82																			13458	13462	14069	14719	15410	16145	
81																		13458	13551	14136	14763	15432	16144	16898	
80	all values in this area are 13,458																13458	13636	14198	14803	15450	16139	16871	17645	
79																13458	13717	14257	14839	15463	16130	16840	17592	18386	
78															13458	13794	14311	14871	15473	16118	16805	17535	18302	19121	
77													13458	13458	13867	14362	14899	15479	16102	16766	17473	18223	19015	19850	
76												13458	13506	13937	14409	14924	15481	16081	16724	17408	18136	18905	19217	20572	
75											13458	13594	14002	14452	14945	15480	16057	16677	17339	18044	18792	19581	20413	21288	
74										13458	13678	14063	14491	14961	15474	16029	16627	17267	17949	18674	19441	20251	21103	21998	
73								13458	13458	13758	14121	14526	14974	15464	15997	16572	17190	17850	18552	19297	20085	20915	21787	22708	
72							13458	13536	13834	14175	14558	14983	15451	15961	16514	17109	17747	18427	19150	19915	20722	21572	22464	23392	
71						13458	13458	13631	13907	14225	14585	14938	15434	15922	16452	17025	17640	18298	18998	19741	20526	21353	22223	23136	24081
70				13458	13458	13511	13722	13975	14271	14609	14990	15413	15878	16386	16936	17529	18165	18842	19563	20325	21131	21978	22868	23801	24226
69	13458	13458	13474	13621	13809	14040	14313	14629	14987	15388	15831	16316	16844	17415	18028	18683	19381	20121	20904	21729	22597	23507	24460		
68	13521	13602	13726	13892	14100	14351	14644	14980	15359	15779	16242	16748	17296	17887	18520	19195	19913	20673	21476	22322	23209	24139	25112	26597	
67	13726	13827	13971	14157	14385	14656	14970	15326	15724	16165	16648	17174	17742	18353	19006	19701	20439	21220	22042	22908	23816	24766	25758		
66	13925	14046	14210	14416	14664	14956	15289	15665	16083	16544	17048	17593	18182	18812	19485	20201	20959	21759	22602	23488	24416	25386	26399		
65	14117	14259	14442	14669	14937	15248	15602	15998	16436	16917	17441	18002	18615	19266	19959	20694	21472	22293	23156	24061	25009	26000			
64	14304	14465	14669	14915	15204	15535	15909	16325	16783	17284	17828	18414	19042	19713	20426	21182	21980	22820	23704	24629	25597				
63	14484	14665	14889	15156	15464	15816	16209	16645	17124	17645	18209	18814	19463	20154	20887	21663	22481	23342	26597						
62	14658	14859	15103	15390	15719	16090	16504	16960	17458	18000	18583	19209	19878	20588	21342	22138	22976	23857							
61	14826	15047	15311	15618	15967	16358	16792	17268	17787	18348	18951	19598	20286	21017	21790	22606	26597								
58-60	14987	15229	15513	15839	16208	16620	17074	17570	18109	18690	19314	19980	20688	21439	22233	23069									
54-57	15700	15700	14650	14650	14650	15950	15950	19950	19950	19950	19950	26597													
50-53	14100	14100	15450	15450	15450	19400	19400	26597																	
46-49	14100	14100	19400	19400	19400	26597																			
42-45	18100	18100	26597																						
32-41	26597																								

all values in this area are 26,597

TABLE 1-b

MAY-JUNE

LBS PER DAY OF BOD_5

(river mile 32.4 to 19.2)

TEMPERATURE (DEG F) (PREVIOUS DAY AVERAGE)

Flow Rate (CFS) (PREVIOUS FOUR DAY AVERAGE)

	750 or less	751 to 850	851 to 950	951 to 1050	1051 to 1150	1151 to 1250	1251 to 1350	1351 to 1450	1451 to 1550	1551 to 1650	1651 to 1750	1751 to 1850	1851 to 1950	1951 to 2050	2051 to 2150	2151 to 2250	2251 to 2350	2351 to 2450	2451 to 2550	2551 to 2650	2651 to 2750	2751 to 2850	2851 to 2950	2951 to 3500	3501 or more
99-84	17175	17175	17175	17175	23835	24507	25204	25924	26667	27435	28227	29043	29883	30746	31634	32545	33481	34440	35424	36431	37462	38518	39597	40700	50514
83	17175	17175	17175	17175	23657	24391	25148	25929	26734	27564	28417	29294	30195	31120	32069	33041	34038	35059	36104	37172	38265	39381	40522	41686	
82	17175	17175	17175	17175	23518	24313	25131	25974	26840	27731	28645	29584	30546	31532	32542	33577	34635	35717	36823	37953	39106	40284	41486	42712	
81	20233	20994	21778	22586	23418	24274	25154	26058	26986	27937	28913	29913	30936	31984	33055	34151	35270	36413	37581	38772	39987	41226	42489	43776	
80	19927	20749	21594	22464	23357	24274	25215	26181	27170	28183	29220	30281	31366	32474	33607	34764	35945	37149	38378	39630	40907	42207	43531	44880	
79	19660	20543	21450	22380	23335	24314	25316	26343	27393	28467	29566	30688	31834	33004	34198	35416	36658	37924	39214	40528	41866	43227	44613	46022	
78	19432	20376	21344	22336	23352	24392	25456	26544	27655	28791	29951	31131	32342	33573	34828	36108	37411	38738	40089	41464	42863	44286	45733	47204	
77	19243	20249	21278	22331	23408	24510	25635	26784	27957	29154	30375	31619	32888	34181	35498	36838	38203	39591	41004	42440	43900	45385	46893	48425	
76	19093	20160	21251	22365	23504	24666	25853	27063	28297	29555	30838	32144	33474	34828	36206	37608	39034	40483	41957	43455	44976	46522	48091	49685	
75	18983	20111	21262	22438	23638	24862	26110	27381	28677	29996	31340	32707	34099	35514	36953	38416	39903	41415	42950	44508	46091	47698	49329	50514	
74	18911	20100	21313	22551	23812	25097	26406	27739	29095	30476	31881	33310	34762	36239	37740	39264	40812	42385	43981	45601	47246	48914	50514		
73	18878	20129	21403	22702	24034	25371	26741	28135	29553	30995	32461	33951	35465	37003	38565	40151	41761	43394	45052	46733	48439	50168	50514		
72	18885	20197	21532	22892	24276	25683	27115	28571	30050	31553	33081	34632	36207	37806	39430	41077	42748	44443	46162	47904	49671	50514			
71	18930	20303	21700	23123	24566	26035	27528	29045	30586	32151	33739	35352	36988	38649	40333	42042	43774	45530	47310	49115	50514				
70	19015	20449	21908	23390	24896	26426	27981	29559	31161	32787	34437	36111	37808	39530	41276	43046	44839	46657	48498	50364	50514				
69	19139	20634	22154	23698	25265	26857	28472	30112	31775	33462	35173	36909	38668	40451	42258	44089	45944	47822	49725	50514					
68	19301	20858	22439	24044	25673	27326	29003	30703	32428	34177	35949	37746	39566	41410	43279	45171	47087	49027	50514						
67	19503	21121	22764	24430	26120	27834	29572	31334	33120	34930	36764	38622	40503	42409	44339	46292	48270	50271							
66	19744	21424	23127	24855	26606	28382	30181	32004	33851	35723	37618	39537	41480	43447	45438	47452	49491	50514							
65	20024	21765	23530	25319	27131	28968	30829	32713	34622	36554	38511	40491	42495	44524	46576	48652	50514								
64	20343	22145	23971	25822	27696	29594	31516	33461	35431	37425	39443	41484	43550	45639	47753	49890									
63	20701	22565	24452	26364	28299	30258	32241	34249	36280	38335	40414	42517	44644	46794	48969	50514									
62	21099	23023	24972	26945	28941	30962	33006	35075	37167	39284	41424	43588	45776	47988	50225										
61	21535	23521	25531	27565	29623	31705	33811	35940	38094	40272	42473	50514													
58-60	22010	24058	26129	28224	30343	32487	34654	36845	39060	41299	43562														
54-57	24250	24250	31300	31300	31300	38900	38900	48000	48000	48000	48000														
50-53	28800	28800	38400	38400	38400	48000	48000	50514																	
46-49	36350	36350	49000	49000	49000	50514																			
42-45	48500	48500	50514																						
32-41	50514	50514																							

all values in this area are 50,514

TABLE 1-b (cont'd)
LBS PER DAY OF BOD_5
(river mile 32.4 to 19.2)

JULY

TEMPERATURE (DEG F) (PREVIOUS DAY AVERAGE) Flow Rate (CFS) (PREVIOUS FOUR DAY AVERAGE)

	750 or less	751 to 850	851 to 950	951 to 1050	1051 to 1150	1151 to 1250	1251 to 1350	1351 to 1450	1451 to 1550	1551 to 1650	1651 to 1750	1751 to 1850	1851 to 1950	1951 to 2050	2051 to 2150	2151 to 2250	2251 to 2350	2351 to 2450	2451 to 2550	2551 to 2650	2651 to 2750	2751 to 2850	2851 to 2950	2951 to 3500	3501 or more
99-84	17175	17175	17175	17175	24272	24676	25115	25587	26094	26636	27212	27322	28467	29146	29860	30608	31391	32208	33059	33945	34865	35819	36808	37832	50514
83	17175	17175	17175	17175	23982	24460	24972	25519	26100	26715	27365	28049	28768	29521	30309	31131	31987	32878	33803	34763	35757	36786	37849	38946	
82	17175	17175	17175	17175	23738	24290	24876	25497	26152	26841	27565	28323	29116	29943	30805	31701	32631	33596	34595	35629	36697	37799	38936	40107	
81	21383	21871	22393	22950	23541	24167	24827	25521	26250	27014	27812	28644	29510	30411	31347	32317	33321	34360	35433	36541	37683	38859	40070	41315	
80	20932	21499	22095	22726	23391	24091	24825	25593	26396	27233	28105	29011	29952	30927	31936	32980	34058	35171	36318	37499	38715	39966	41250	42570	
79	20537	21173	21844	22548	23287	24061	24869	25711	26588	27499	28445	29425	30440	31489	32572	33690	34842	36029	37250	38505	39795	41119	42478	43871	
78	20185	20895	21639	22418	23231	24078	24960	25876	26827	27812	28832	29886	30974	32097	33255	34446	35672	36933	38228	39557	40921	42319	43752	45219	
77	19879	20663	21481	22334	23221	24142	25098	26088	27113	28172	29266	30394	31556	32753	33984	35250	36550	37884	39253	40656	42094	43566	45073	46614	
76	19620	20478	21370	22297	23258	24253	25283	26347	27446	28579	29746	30948	32184	33455	34760	36100	37474	38882	40325	41802	43314	44860	46441	48055	
75	19408	20340	21306	22306	23341	24410	25514	26652	27825	29032	30273	31549	32859	34204	35583	36997	38444	39927	41444	42995	44580	46200	47855	49544	
74	19242	20248	21288	22362	23471	24614	25792	27004	28251	29532	30847	32197	33581	35000	36453	37940	39462	41018	42609	44324	45894	47588	49316	50514	
73	19124	20203	21317	22465	23648	24865	26117	27403	28724	30078	31468	32891	34349	35842	37369	38930	40526	42156	43821	45520	47254	49022	50514		
72	19052	20205	21393	22615	23872	25163	26489	27849	29243	30672	32135	33633	35165	36731	38332	39967	41637	43341	45080	46853	48660	50502			
71	19026	20254	21516	22812	24142	25507	26907	28341	29809	31312	32849	34421	36027	37667	39342	41051	42795	44573	46386	48232	50114	50514			
70	19048	20349	21685	23055	24460	25899	27372	28880	30422	31999	33610	35255	36935	38650	40399	42182	43999	45851	47738	49659	50514				
69	19116	20491	21901	23345	24824	26337	27884	29466	31082	32733	34418	36137	37891	39679	41502	43359	45251	47177	49137	50514					
68	19231	20680	22164	23682	25234	26821	28443	30098	31788	33513	35272	37065	38893	40755	42652	44583	46549	48548	50514						
67	19393	20916	22473	24065	25692	27353	29048	30778	32542	34340	36173	38040	39942	41878	43849	45854	47893	49967							
66	19601	21198	22830	24496	26196	27931	29700	31504	33342	35214	37121	39062	41038	43048	45092	47171	49285	50514							
65	19856	21527	23233	24973	26747	28556	30399	32276	34188	36135	38115	40131	42180	44264	46383	48536	50514								
64	20158	21903	23683	25496	27345	29227	31144	33096	35082	37102	39157	41246	43369	45527	47720	49947									
63	20507	22326	24179	26067	27989	29946	31937	33962	36022	38116	40245	42408	44605	46837	49104	50514									
62	20903	22795	24723	26684	28680	30711	32776	34875	37009	39177	41380	43617	45888	48194	50514										
61 or less	21345	23312	24313	27348	29418	31523	33662	35835	38043	40285	42561	44872	47218	49597											

all values in this area are 50,514

TABLE 1-b (cont'd)

AUGUST

LBS PER DAY OF BOD_5 (river mile 32.4 to 19.2)

TEMPERATURE (DEG F) (PREVIOUS DAY AVERAGE)	Flow Rate (CFS) (PREVIOUS FOUR DAY AVERAGE)																									
	750 or less	751 to 850	851 to 950	951 to 1050	1051 to 1150	1151 to 1250	1251 to 1350	1351 to 1450	1451 to 1550	1551 to 1650	1651 to 1750	1751 to 1850	1851 to 1950	1951 to 2050	2051 to 2150	2151 to 2250	2251 to 2350	2351 to 2450	2451 to 2550	2551 to 2650	2651 to 2750	2751 to 2850	2851 to 2950	2951 to 3500	3501 or more
99-84	17175	17175	17175	17175	21732	22204	22699	23219	23764	24332	24925	25542	26183	26849	27539	28253	28991	29754	30541	31352	32187	33047	33931	34039	50514
83	17175	17175	17175	17175	21468	22008	22572	23160	23772	24409	25070	25755	26464	27198	27956	28738	29544	30375	31230	32109	33012	33940	34892	35868	
82	17175	17175	17175	17175	21250	21858	22490	23146	23826	24531	25260	26013	26790	27592	28418	29268	30142	31041	31964	32911	33883	34878	35898	36942	
81	18617	19196	19799	20426	21077	21753	22453	23177	23925	24698	25495	26316	27162	28031	28925	29843	30786	31753	32744	33759	34798	35862	36950	38062	
80	18218	18864	19535	20230	20950	21693	22461	23254	24070	24911	25776	26665	27578	28516	29478	30464	31475	32510	33569	34652	35760	36891	38047	39228	
79	17863	18578	19317	20080	20868	21679	22515	23376	24260	25169	26102	27059	28041	29046	30076	31131	32209	33312	34439	35590	36766	37966	39190	40438	
78	17554	18337	19144	19975	20831	21711	22615	23543	24496	25472	26473	27499	28548	29622	30720	31842	32989	34160	35355	36574	37818	39086	40378	41694	
77	17291	18142	19017	19916	20840	21787	22759	23756	24776	25821	26890	27984	29101	30243	31409	32600	33814	35053	36316	37604	38915	40251	41611	42996	
76	17073	17992	18935	19902	20894	21909	22950	24014	25103	26215	27353	28514	29700	30909	32144	33402	34685	35992	37323	38678	40058	41462	42890	44343	
75	16900	17887	18898	19933	20993	22077	23185	24317	25474	26655	27860	29090	30343	31621	32923	34250	35601	36976	38375	39798	41246	42718	44214	45735	
74	16773	17827	18907	20010	21138	22290	23466	24666	25891	27140	28413	29711	31032	32378	33749	35143	36562	38005	39472	40964	42480	44020	45584	47172	
73	16691	17814	18961	20132	21328	22548	23792	25061	26353	27670	29012	30377	31767	33181	34619	36082	37569	39080	40615	42175	43758	45367	46999	48655	
72	16654	17845	19060	20300	21563	22851	24164	25500	26861	28246	29655	31089	32547	34029	35535	37066	38621	40200	41803	43431	45083	46759	48459	50184	
71	16663	17922	19205	20513	21844	23200	24581	25985	27414	28867	30345	31846	33372	34922	36497	38095	39718	41365	43037	44732	46452	48196	49965	50514	
70	16717	18044	19395	20771	22171	23595	25043	26516	28013	29534	31079	32649	34243	35861	37503	39170	40861	42576	44316	46079	47867	49679	50514		
69	16816	18211	19631	21074	22542	24035	25551	27092	28657	30246	31859	33497	35159	36845	38555	40290	42049	43832	45640	47472	49328	50514			
68	16961	18424	19912	21424	22959	24520	26104	27713	29346	31003	32684	34390	36120	37874	39653	41456	43283	45134	47010	48909	50514				
67	17152	18683	20238	21818	23422	25050	26703	28379	30080	31806	33555	35329	37127	38949	40796	42667	44562	46481	48425	50392					
66	17387	18986	20610	22258	23930	25626	27347	29091	30860	32654	34471	36313	38179	40069	41984	43923	45886	47873	49885	50514					
65	17668	19336	21027	22743	24483	26247	28036	29849	31686	33547	35433	37343	39277	41235	43218	45225	47256	49311	50514						
64	17995	19730	21490	23273	25082	26914	28771	30651	32557	34486	36440	38417	40420	42446	44497	46572	48671	50514							
63	18367	20170	21998	23849	25726	27626	29551	31500	33473	35470	37492	39538	41608	43702	45821	47964	50131								
62	18784	20655	22551	24471	26415	28383	30376	32393	34434	36500	38589	40703	42842	45004	47191	49402	50514								
61 or less	19246	21186	23149	25137	27150	29186	31247	33332	35441	37575	39732	41914	44121	46351	48606	50514									

all values in this area are 50,514

TABLE 1-b (cont'd)
LBS PER DAY OF BOD_5
(river mile 32.4 to 19.2)

SEPTEMBER
(PREVIOUS FOUR DAY AVERAGE)

Flow Rate (CFS)

TEMPERATURE (DEG F) (PREVIOUS DAY AVERAGE)

	750 or less	751 to 850	851 to 950	951 to 1050	1051 to 1150	1151 to 1250	1251 to 1350	1351 to 1450	1451 to 1550	1551 to 1650	1651 to 1750	1751 to 1850	1851 to 1950	1951 to 2050	2051 to 2150	2151 to 2250	2251 to 2350	2351 to 2450	2451 to 2550	2551 to 2650	2651 to 2750	2751 to 2850	2851 to 2950	2951 to 3500	3501 or more
99-84				17175	18641	19168	19720	20295	20894	21517	22163	22833	23527	24245	24987	25752	26541	27354	28191	29051	29935	30843	31775	32730	50514
83				17175	18393	18987	19605	20246	20912	21601	22314	23050	23811	24595	25403	26235	27090	27970	28873	29799	30750	31724	32722	33744	
82				17175	18192	18852	19537	20245	20976	21732	22511	23314	24141	24992	25866	26764	27686	28632	29601	30595	31612	32652	33717	34805	
81	all values in			17175	18038	18765	19515	20290	21088	21910	22756	23625	24518	25435	26376	27341	28329	29341	30377	31437	32520	33627	34758	35913	
80	this area are			17175	17930	18724	19541	20382	21246	22135	23047	23983	24942	25926	26933	27964	29019	30097	31199	32325	33475	34649	35846	37067	
79	17,175			17175	17870	18729	19613	20520	21451	22406	23385	24387	25413	26463	27537	28634	29755	30900	32069	33261	34477	35717	36981	38268	
78				17175	17856	18782	19732	20706	21703	22724	23769	24838	25931	27047	28187	29351	30538	31750	32985	34244	35526	36833	38163	39517	
77				17175	17889	18881	19898	20938	22002	23089	24201	25336	26495	27678	28884	30114	31368	32646	33947	35273	36622	37995	39391	40811	
76				17175	17968	19027	20110	21217	22347	23501	24679	25881	27106	28355	29628	30925	32245	33589	34957	36349	37764	39203	40666	42153	
75				17175	18095	19220	20370	21543	22739	23960	25204	26472	27764	29079	30419	31782	33168	34579	36013	37471	38953	40459	41988	43541	
74				17175	18268	19460	20676	21915	23178	24465	25776	27110	28468	29850	31256	32686	34139	35616	37116	38641	40189	41761	43357	44977	
73			17175	17254	18488	19747	21029	22334	23664	25017	26394	27795	29220	30668	32140	33636	35156	36699	38266	39857	41472	43110	44773	46459	
72			17175	17454	18755	20080	21428	22801	24197	25616	27060	28527	30018	31533	33071	34634	36220	37829	39463	41120	42802	44506	46235	47987	
71			17175	17702	19069	20460	21875	23313	24776	26262	27772	29306	30863	32444	34049	35678	37330	39007	40707	42430	44178	45949	47744	49563	
70			17175	17996	19429	20887	22368	23873	25402	26955	28531	30131	31755	33402	35074	36769	38488	40230	41997	43787	45601	47439	49300	50514	
69			17175	18336	19837	21361	22908	24480	26075	27694	29337	31003	32693	34407	36145	37907	39692	41501	43334	45190	47071	48975	50514		
68		17175	17181	18724	20291	21881	23495	25133	26795	28480	30189	31922	33679	35459	37263	39091	40943	42818	44718	46641	48588	50514		
67		17175	17549	19158	20791	22448	24129	25833	27561	29313	31088	32888	34711	36558	38428	40323	42241	44183	46148	48138	50151	50514		
66		17175	17964	19640	21339	23062	24809	26580	28374	30193	32035	33900	35790	37703	39640	41601	43585	45594	47626	49682	50514			
65		17175	18426	20168	21933	23723	25536	27373	29234	31119	33027	34960	36915	38895	40899	42926	44977	47052	49150	50514				
64		17175	18934	20742	22575	24431	26310	28214	30140	32092	34067	36066	38088	40134	42204	44298	46415	48566	50514					
63	17175	17638	19489	21364	23263	25185	27131	29101	31095	33112	35154	37219	39307	41420	43556	45716	47900	50107	50514					
62	17175	18173	20091	22032	23997	25986	27991	30035	32095	34179	36287	38418	40573	42752	44955	47181	49432	50514						
61	17175	18756	20740	22747	24779	26834	28913	31016	33142	35293	37467	39665	41886	44132	46401	48694	50514							
58-60	17175	18385	21435	23509	25607	27729	29874	32043	34236	36453	38694	40958	43246	45558	47893	50252	50514							
54-57	19200	19200	26250	26250	26250	33350	33350	42950	42950	42950	42950	50514												
50-53	23750	23750	32850	32850	32850	42950	42950	50514																
46-49	30800	30800	43950	43950	43950	50514																		
42-45	42900	42900	50514																					
32-41	50514																							

all values in this area are 50,514

TABLE 1-b (cont'd)
LBS PER DAY OF BOD_5
(river mile 32.4 to 19.2)

OCTOBER
(PREVIOUS FOUR DAY AVERAGE)

Flow Rate (CFS)

TEMPERATURE (DEG F) (PREVIOUS DAY AVERAGE)

	750 or less	751 to 850	851 to 950	951 to 1050	1051 to 1150	1151 to 1250	1251 to 1350	1351 to 1450	1451 to 1550	1551 to 1650	1651 to 1750	1751 to 1850	1851 to 1950	1951 to 2050	2051 to 2150	2151 to 2250	2251 to 2350	2351 to 2450	2451 to 2550	2551 to 2650	2651 to 2750	2751 to 2850	2851 to 2950	2951 to 3500	3501 or more
99-84								17602	18184	18795	19436	20105	20804	21532	22289	23076	23891	24736	25610	26513	27445	28407	29398	30417	50514
83								17513	18163	18841	19548	20285	21051	21846	22670	23524	24407	25318	26259	27230	28229	29258	30315	31402	
82								17473	18189	18935	19710	20513	21346	22209	23100	24021	24970	25949	26957	27995	29061	30157	31282	32436	
81		all values in this						17482	18265	19077	19919	20790	21690	22619	23578	24566	25582	26629	27704	28808	29942	31105	32297	33518	
80		area are 17,175						17538	18389	19268	20177	21115	22082	23079	24104	25159	26243	27356	28499	29670	30871	32101	33360	34640	
79								17644	18561	19508	20484	21489	22523	23587	24679	25801	26952	28133	29342	30581	31848	33145	33472	35872	
78								17797	18782	19796	20839	21911	23012	24143	25303	26492	27710	28957	30234	31540	32875	34239	35632	37054	
77								18000	19051	20132	21242	22382	23550	24748	25975	27231	28516	29831	31174	32547	33949	35380	36841	38330	
76							17175	18250	19369	20517	21694	22901	24136	25401	26695	28018	29371	30752	32163	33603	35072	36570	38098	39655	
75							17393	18549	19735	20950	22195	23468	24771	26103	27464	28854	30274	31722	33200	34707	36244	37809	39404	41027	
74							17673	18897	20150	21432	22744	24084	25454	26853	28281	29739	31225	32741	34286	35860	37464	39096	40758	42449	
73							18002	19293	20613	21963	23341	24749	26186	27652	29147	30672	32226	33808	35420	37062	38732	40432	42161	43918	
72						17175	18380	19738	21125	22542	23987	25462	26966	28499	30062	31653	33274	34924	36603	38311	40049	41816	43612	45437	
71						17410	18806	20231	21685	23169	24682	26224	27795	29395	31025	32683	34731	36088	37834	39610	41414	43248	45111	47003	
70						17817	19280	20772	22294	23845	25425	27034	28672	30339	32036	33762	35517	37301	39114	40957	42828	44729	46659	48619	
69					17175	18273	19803	21363	22951	24569	26216	27892	29597	31332	33096	34889	36711	38562	40442	42352	44291	46259	48256	50282	
68					17209	18777	20375	22001	23657	25342	27056	28799	30571	32373	34204	36064	37953	39871	41819	43796	45802	47837	49901	50514	
67					17695	19330	20995	22688	24411	26163	27944	29755	31594	33463	35361	37288	39244	41230	43244	45288	47361	49463	50514		
66					18229	19931	21663	23424	25214	27033	28881	30758	32665	34601	36566	38560	40584	42636	44718	46829	48969	50514			
65				17175	18812	20581	22380	24208	26065	27951	29866	31811	33785	35788	37820	39881	41971	44091	46240	48418	50514				
64				17636	19443	21280	23145	25040	26964	28918	30900	32912	34953	37023	39122	41250	43408	45595	47811	50056	50514				
63				18248	20123	22026	23959	25921	27912	29933	31982	34061	36169	38306	40473	42668	44893	47147	49430	50514					
62			17175	18909	20851	22822	24822	26851	28901	30996	33113	35259	37434	39638	41872	44134	46426	48747	50514						
61			17639	19619	21628	23665	25732	27829	29954	32109	34292	36505	38748	41019	43319	45649	48008	50396	50514						
58-60			18330	20377	22453	24558	26692	28855	31048	33269	35520	37800	40109	42448	44816	47212	49638	50514							
54-57	17175	17175	22700	22700	22700	30300	30300	39400	39400	39400	39400	50514													
50-53	19700	19700	29300	29300	29300	38900	38900	50514																	
46-49	26750	26750	50514																						
42-45	37900	37900	50514																						
32-41	50514																								

all values in this
area are 50,514

TABLE 1-m
LBS PER DAY OF BOD_5
(river mile 205.3 to 171.9)

Flow at Biron Dam (cfs)

Temp F \ Flow (cfs)	999 or less	1000-1199	1200-1499	1500-1999	2000-2499	2500-2999	3000-3999	4000 or more
MAY-JUNE								
69+	16961.	19179.	24169.	31932.	47088.	64400.	64400.	64400.
68-65	16961.	22013.	27619.	36861.	54543.	64400.	64400.	64400.
64-61	19857.	26079.	32918.	44131.	64400.	64400.	64400.	64400.
60-57	24354.	32302.	40804.	55713.	64400.	64400.	64400.	64400.
56-53	31378.	41789.	53803.	64400.	64400.	64400.	64400.	64400.
52-49	42590.	58054.	64400.	64400.	64400.	64400.	64400.	64400.
48-45	61720.	64400.	64400.	64400.	64400.	64400.	64400.	64400.
44 or less	64400.	64400.	64400.	64400.	64400.	64400.	64400.	64400.
JULY-AUGUST								
77+	16961.	16961.	16961.	18563.	27065.	37107.	49059.	64400.
76-73	16961.	16961.	16961.	21150.	31378.	44069.	58239.	64400.
72-69	16961.	16961.	17269.	23492.	36060.	50846.	64400.	64400.
68-65	16961.	16961.	21150.	28975.	44254.	63168.	64400.	64400.
64-61	16961.	20842.	26757.	36060.	56760.	64400.	64400.	64400.
60 or less	20042.	27127.	34704.	48197.	64400.	64400.	64400.	64400.
SEPTEMBER-OCTOBER								
73+	16961.	16961.	16961.	16961.	20842.	30577.	42098.	64400.
72-69	16961.	16961.	16961.	16961.	25032.	37292.	51154.	64400.
68-65	16961.	16961.	16961.	20103.	33041.	48320.	64400.	64400.
64-61	16961.	16961.	18686.	27188.	44067.	64400.	64400.	64400.
60-57	16961.	19117.	25833.	37292.	60888.	64400.	64400.	64400.
56-53	19856.	27373.	36738.	53372.	64400.	64400.	64400.	64400.
52-49	28297.	40619.	55159.	64400.	64400.	64400.	64400.	64400.
48-45	43860.	63383.	64400.	64400.	64400.	64400.	64400.	64400.
44 or less	64400.	64400.	64400.	64400.	64400.	64400.	64400.	64400.

TABLE 2-m
LBS PER DAY OF BOD_5
(river mile 271.1 to 258.5)

Flow at Rothschild Dam (cfs)

Temp °F \ Flow cfs	980 or less	981-1220	1221-1470	1471-1730	1731-1990	1991-2260	2261-2540	2541-2830	2831-3130	3131-3430	3431-3780	3781-4230	4231-4730	4731-5250	5251-5780	5781-6340	6341-6910	6911 or more
	(A)			(B)				(C)										
MAY-JUNE																		
78+	4841.	6455.	5798.	4822.	5351.	6298.	6854.	5350.	5870.	4980.	5085.	5516.	6340.	7657.	9350.	11525.	13087.	13087.
74-77	5969.	6495.	7343.	5734.	5574.	6214.	5511.	5288.	5307.	5501.	6033.	6997.	8405.	10512.	13087.	13087.	13087.	13087.
70-73	5438.	5598.	5522.	5280.	6755.	6227.	6284.	5935.	6134.	6662.	7534.	8991.	11165.	13087.	13087.	13087.	13087.	13087.
66-69	5259.	6644.	6592.	7161.	6762.	6539.	6587.	6928.	7569.	8493.	9756.	11812.	13087.	13087.	13087.	13087.	13087.	13087.
62-65	6929.	7168.	7558.	7012.	6935.	6998.	7443.	8269.	9569.	11128.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.
58-61	6975.	7883.	7459.	7187.	7442.	7890.	9347.	11092.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.
57 or less	8292.	7700.	7452.	7938.	9081.	10916.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.
JULY-AUGUST																		
78+	5658.	7326.	6378.	5490.	6829.	6742.	6438.	5773.	5908.	5714.	5954.	6424.	7368.	8708.	10447.	12506.	13087.	13087.
74-77	6779.	6986.	5834.	6611.	6933.	6459.	6188.	5977.	7190.	6307.	6849.	7816.	9485.	11531.	13087.	13087.	13087.	13087.
70-73	6881.	6965.	5961.	6658.	6824.	6745.	6449.	6482.	6861.	7495.	8309.	9638.	12097.	13087.	13087.	13087.	13087.	13087.
66-69	5756.	6887.	6918.	7609.	7179.	6985.	8318.	7537.	8164.	9220.	10487.	12597.	13087.	13087.	13087.	13087.	13087.	13087.
62-65	7361.	7432.	7781.	7458.	7268.	7512.	7957.	8096.	10222.	11882.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.
58-61	7218.	8163.	7633.	7589.	7922.	8698.	9990.	11700.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.
57 or less	8528.	7989.	7904.	6086.	9649.	11573.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.
SEPTEMBER																		
78+	4738.	4999.	4960.	4708.	4709.	6247.	5106.	4708.	4708.	4708.	4708.	4708.	4708.	5845.	7619.	9672.	12262.	13087.
74-77	4708.	5729.	4708.	4708.	4708.	5127.	4738.	4708.	4708.	4708.	4708.	4708.	5453.	6936.	8946.	11087.	13087.	13087.
70-73	5760.	5869.	5243.	4756.	5157.	5306.	4822.	4708.	4973.	5439.	6197.	7576.	9798.	12646.	13087.	13087.	13087.	13087.
66-69	4735.	5886.	5931.	6162.	6111.	5874.	5709.	5865.	6551.	7353.	8586.	10605.	13087.	13087.	13087.	13087.	13087.	13087.
62-65	6494.	6580.	6962.	6985.	6141.	6151.	6536.	7267.	8469.	10098.	12125.	13087.	13087.	13087.	13087.	13087.	13087.	13087.
58-61	6377.	7635.	6756.	6177.	6551.	7254.	8359.	10691.	12296.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.
57 or less	8008.	7224.	6859.	7116.	8147.	9906.	12407.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.
OCTOBER																		
78+	4738.	4708.	4708.	4708.	4708.	4708.	4708.	4708.	4708.	4708.	4708.	4708.	4708.	4966.	6619.	8691.	11229.	13087.
74-77	4708.	5168.	4708.	4708.	4708.	4708.	4708.	4708.	4708.	4708.	4708.	4708.	4708.	5983.	8039.	10551.	13087.	13087.
70-73	4708.	5517.	4951.	4708.	5460.	4708.	4708.	4738.	4708.	4795.	5481.	6816.	8937.	11799.	13087.	13087.	13087.	13087.
66-69	4708.	6565.	5511.	5882.	5546.	5254.	5192.	5429.	5987.	6836.	7936.	9940.	13089.	13087.	13087.	13087.	13087.	13087.
62-65	6173.	6300.	6555.	5732.	5668.	5762.	6024.	6797.	7974.	9473.	11560.	13087.	13087.	13087.	13087.	13087.	13087.	13087.
58-61	7040.	7034.	6299.	5798.	6220.	6802.	7901.	9542.	11718.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.
57 or less	7455.	6620.	6337.	6691.	7700.	9419.	11895.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.	13087.

TABLE 3-m
LBS PER DAY OF BOD_5
(river mile 258.4 to 258.2)

Flow at Rothschild Dam (cfs)

Flow cfs / Temp °F	980 or less	981-1220	1221-1470	1471-1730	1731-1990	1991-2260	2261-2540	2541-2830	2831-3130	3131-3430	3431-3780	3781-4230	4231-4730	4731-5250	5251-5780	5781- or more
	(A)			(B)			(C)									
MAY-JUNE																
78+	1299.	1235.	1284.	1381.	1433.	1493.	1561.	1676.	1794.	1944.	2106.	2332.	2630.	2961.	3375.	3375.
74-77	1189.	1192.	1237.	1385.	1492.	1542.	1678.	1834.	2008.	2211.	2425.	2712.	3098.	3375.	3375.	3375.
70-73	1132.	1189.	1300.	1425.	1486.	1627.	1823.	2017.	2244.	2502.	2772.	3132.	3375.	3375.	3375.	3375.
66-69	1141.	1215.	1358.	1490.	1647.	1843.	2075.	2336.	2621.	2937.	3278.	3375.	3375.	3375.	3375.	3375.
62-65	1164.	1327.	1486.	1669.	1893.	2166.	2477.	2819.	3184.	3375.	3375.	3375.	3375.	3375.	3375.	3375.
58-61	1308.	1493.	1702.	1983.	2315.	2711.	3103.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.
57 or less	1499.	1748.	2099.	2510.	2979.	3493.	3900.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.
JULY-AUGUST																
78+	1389.	1377.	1477.	1565.	1610.	1679.	1748.	1878.	1991.	2151.	2304.	2528.	2833.	3148.	3375.	3375.
74-77	1313.	1340.	1463.	1553.	1637.	1735.	1859.	2024.	2501.	2393.	2604.	2899.	3278.	3375.	3375.	3375.
70-73	1243.	1304.	1460.	1559.	1669.	1800.	1990.	2191.	2422.	2673.	2939.	3221.	3375.	3375.	3375.	3375.
66-69	1257.	1358.	1508.	1643.	1800.	2004.	2591.	2499.	2784.	3097.	3375.	3375.	3375.	3375.	3375.	3375.
62-65	1278.	1464.	1627.	1811.	2045.	2317.	2628.	2967.	3330.	3375.	3375.	3375.	3375.	3375.	3375.	3375.
58-61	1431.	1622.	1843.	2126.	2455.	2837.	3250.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.
57 or less	1616.	1884.	2236.	2820.	3121.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.
SEPTEMBER																
78+	1013.	1013.	1013.	1013.	1013.	1013.	1090.	1212.	1286.	1529.	1709.	1953.	2277.	2635.	3001.	3375.
74-77	1013.	1013.	1013.	1013.	1091.	1129.	1278.	1453.	1658.	1861.	2124.	2401.	2812.	3233.	3375.	3375.
70-73	1013.	1013.	1013.	1084.	1143.	1274.	1477.	1695.	1937.	2201.	2490.	2865.	3357.	3375.	3375.	3375.
66-69	1013.	1013.	1023.	1160.	1314.	1529.	1777.	2061.	2351.	2684.	3030.	3375.	3375.	3375.	3375.	3375.
62-65	1013.	1013.	1165.	1381.	1612.	1898.	2220.	2579.	2960.	3352.	3375.	3375.	3375.	3375.	3375.	3375.
58-61	1019.	1343.	1417.	1729.	2060.	2449.	2876.	3333.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.
57 or less	1161.	1457.	1823.	2253.	2738.	3266.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.
OCTOBER																
78+	1013.	1013.	1013.	1013.	1013.	1013.	1013.	1076.	1223.	1402.	1572.	1816.	2131.	2467.	2846.	3241.
74-77	1013.	1013.	1013.	1013.	1013.	1013.	1130.	1322.	1516.	1717.	1938.	2256.	2653.	3075.	3375.	3375.
70-73	1013.	1013.	1013.	1013.	1013.	1163.	1353.	1578.	1839.	2075.	2357.	2735.	3217.	3375.	3375.	3375.
66-69	1013.	1013.	1013.	1040.	1207.	1424.	1669.	1940.	2238.	2564.	2904.	3354.	3375.	3375.	3375.	3375.
62-65	1013.	1013.	1057.	1279.	1513.	1794.	2122.	2467.	2842.	3237.	3375.	3375.	3375.	3375.	3375.	3375.
58-61	1013.	1073.	1321.	1614.	1955.	2346.	2767.	3215.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.
57 or less	1066.	1363.	1731.	2158.	2638.	3166.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.	3375.

TABLE 4-m
LBS PER DAY OF BOD5
(river mile 258.19 to 249.0)

Flow at Rothschild Dam (cfs)

Flow cfs / Temp °F	980 or less	981-1220	1221-1470	1471-1730	1731-1990	1991-2260	2261-2540	2541-2830	2831-3130	3131-3430	3431-3780	3781-4230	4231-4730	4731-5250	5251-5720	5721-6340	6341-6910	6911 or more
	(A)			(B)			(C)											
MAY-JUNE																		
78+	4186.	3891.	4115.	4563.	4835.	5079.	5395.	5924.	6478.	7168.	7989.	8948.	10326.	11849.	13494.	15258.	17314.	17314.
74-77	3679.	3693.	3981.	4582.	5076.	5385.	5933.	6654.	7455.	8390.	9381.	10781.	12642.	14362.	16530.	17314.	17314.	17314.
70-73	3414.	3675.	4192.	4764.	5046.	5699.	6601.	7497.	8546.	9734.	10980.	12639.	14838.	17314.	17314.	17314.	17314.	17314.
66-69	3458.	3799.	4459.	5066.	5791.	6695.	7766.	8969.	10282.	11739.	13277.	15325.	17314.	17314.	17314.	17314.	17314.	17314.
62-65	3561.	4316.	5058.	5892.	6927.	8182.	9619.	11197.	12881.	14631.	16599.	17314.	17314.	17314.	17314.	17314.	17314.	17314.
58-61	4227.	5083.	6080.	7342.	8878.	10698.	12595.	14537.	16818.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.
57 or less	5108.	6255.	7876.	9772.	11933.	14304.	16942.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.
JULY-AUGUST																		
78+	4601.	4546.	4867.	5413.	5621.	5936.	6256.	6856.	7375.	8113.	8820.	9852.	11261.	12712.	14354.	15979.	17314.	17314.
74-77	4251.	4372.	4943.	5356.	5743.	6197.	6768.	7530.	8731.	9232.	10284.	11563.	13314.	15263.	17314.	17314.	17314.	17314.
70-73	3929.	4210.	4930.	5386.	5891.	6495.	7374.	8301.	9363.	10522.	11749.	13049.	15615.	17314.	17314.	17314.	17314.	17314.
66-69	3988.	4456.	5149.	5731.	6497.	7438.	10146.	9720.	11036.	12480.	13980.	16021.	17314.	17314.	17314.	17314.	17314.	17314.
62-65	4089.	4946.	5696.	6530.	7625.	8888.	10314.	11888.	13553.	15340.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.
58-61	4795.	5677.	6693.	8000.	9517.	11277.	13186.	15217.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.
57 or less	5647.	6885.	8589.	11199.	12587.	14964.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.
SEPTEMBER																		
78+	2865.	2865.	2865.	2865.	2865.	2865.	3222.	3786.	4124.	5247.	6874.	7203.	9696.	10348.	12035.	13673.	15822.	17314.
74-77	2865.	2865.	2865.	2865.	3224.	3401.	4088.	4894.	5840.	6779.	7989.	9266.	11163.	13105.	16561.	17314.	17314.	17314.
70-73	2865.	2865.	2865.	3194.	3465.	4071.	5006.	6012.	7126.	8344.	9677.	11406.	13680.	16079.	17314.	17314.	17314.	17314.
66-69	2865.	2865.	2911.	3543.	4254.	5247.	6390.	7720.	9040.	10575.	12168.	14254.	17217.	17314.	17314.	17314.	17314.	17314.
62-65	2865.	2865.	3567.	4565.	5628.	6948.	8435.	10090.	11845.	13656.	15615.	17314.	17314.	17314.	17314.	17314.	17314.	17314.
58-61	2894.	4388.	4703.	6170.	7695.	9488.	11549.	13568.	15754.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.
57 or less	3550.	4915.	6603.	8587.	10822.	13258.	15846.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.
OCTOBER																		
78+	2865.	2865.	2865.	2865.	2865.	2865.	2865.	3158.	3834.	4663.	5444.	6571.	8025.	9572.	11320.	13144.	15162.	17314.
74-77	2865.	2865.	2865.	2865.	2865.	2865.	3404.	4290.	5186.	6113.	7133.	8608.	10432.	12377.	14562.	16996.	17314.	17314.
70-73	2865.	2865.	2865.	2865.	2865.	3559.	4433.	5471.	6539.	7765.	9065.	10811.	13031.	15438.	17314.	17314.	17314.	17314.
66-69	2865.	2865.	2865.	2992.	3763.	4763.	5898.	7143.	8518.	10021.	11590.	13666.	16365.	17314.	17314.	17314.	17314.	17314.
62-65	2865.	2865.	3069.	4094.	5174.	6471.	7901.	9571.	11301.	13126.	15072.	17314.	17314.	17314.	17314.	17314.	17314.	17314.
58-61	2865.	3144.	4286.	5716.	7211.	9013.	10956.	13024.	15241.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.
57 or less	3112.	4481.	6177.	8147.	10359.	12796.	15382.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.	17314.

TABLE 5-m
LBS PER DAY OF BOD_5
(river mile 248.9 to 235.4)

Flow at Rothschild Dam (cfs)

Temp °F \ Flow cfs	980 or less	981-1220	1221-1470	1471-1730	1731-1990	1991-2260	2261-2540	2541-2830	2831-3130	3131-3430	3431-3780	3781-4230	4231-4730	4731-5250	5251-5780	5781-6340	6341-6910	6911 or more
	(A)		(B)			(C)												
MAY-JUNE																		
78+	6534.	6534.	6397.	4668.	3478.	2474.	2610.	2838.	3074.	3371.	3694.	4142.	4736.	5392.	6101.	6534.	6534.	6534.
74-77	6534.	6534.	4849.	2154.	2473.	2571.	2842.	3153.	3498.	3931.	4328.	4898.	5665.	6476.	6534.	6534.	6534.	6534.
70-73	6534.	5818.	3999.	2806.	2460.	2741.	3130.	3516.	3968.	4480.	5018.	5733.	6534.	6534.	6534.	6534.	6534.	6534.
66-69	6330.	4035.	2923.	2468.	2781.	3171.	3632.	4151.	4717.	5345.	6008.	6534.	6534.	6534.	6534.	6534.	6534.	6534.
62-65	5179.	3370.	2461.	2824.	3270.	3811.	4431.	5111.	5837.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.
58-61	3688.	2473.	2890.	3449.	4108.	4896.	5675.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.
57 or less	2486.	2981.	3680.	4497.	5429.	6451.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.
JULY-AUGUST																		
78+	4250.	6534.	6116.	4452.	3191.	2843.	2981.	3240.	3464.	3782.	4086.	4532.	5139.	5764.	6472.	6534.	6534.	6534.
74-77	6534.	6534.	4973.	3165.	2760.	2956.	3202.	3530.	4479.	4264.	4683.	5269.	6024.	6534.	6534.	6534.	6534.	6534.
70-73	6534.	5752.	4024.	3040.	2824.	3084.	3463.	3863.	4321.	4820.	5349.	5909.	6534.	6534.	6534.	6534.	6534.	6534.
66-69	6312.	4738.	3345.	2755.	3085.	3491.	4658.	4474.	5042.	5664.	6311.	6534.	6534.	6534.	6534.	6534.	6534.	6534.
62-65	5326.	3410.	2740.	3099.	3571.	4112.	4731.	5405.	6127.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.
58-61	3756.	2732.	3170.	3733.	4387.	5146.	5969.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.
57 or less	2719.	3252.	3952.	5112.	5710.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.
SEPTEMBER																		
78+	4408.	3918.	3346.	2346.	2070.	1640.	1673.	1916.	2062.	2546.	2903.	3390.	4033.	4745.	5472.	6265.	6534.	6534.
74-77	3970.	3540.	2472.	2065.	1674.	1751.	2047.	2394.	2802.	3207.	3728.	4279.	5097.	5934.	6534.	6534.	6534.	6534.
70-73	3088.	2427.	1640.	1665.	1778.	2039.	2442.	2876.	3356.	3881.	4456.	5201.	6181.	6534.	6534.	6534.	6534.	6534.
66-69	3129.	2481.	1884.	1812.	2118.	2546.	3039.	3604.	4181.	4843.	5530.	6429.	6534.	6534.	6534.	6534.	6534.	6534.
62-65	2779.	1887.	1822.	2252.	2710.	3279.	3920.	4634.	5391.	6171.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.
58-61	1790.	2176.	2323.	2944.	3601.	4374.	5224.	6133.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.
57 or less	1815.	2403.	3131.	3986.	4950.	6000.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.
OCTOBER																		
78+	1640.	1640.	1640.	1640.	1640.	1640.	1640.	1646.	1937.	2294.	2631.	3117.	3744.	4411.	5104.	5950.	6534.	6534.
74-77	1640.	1640.	1640.	1640.	1640.	1640.	1752.	2134.	2520.	2920.	3359.	3991.	4781.	5620.	6534.	6534.	6534.	6534.
70-73	1640.	1640.	1640.	1640.	1640.	1819.	2195.	2643.	3103.	3632.	4192.	4945.	5902.	6534.	6534.	6534.	6534.	6534.
66-69	1640.	1640.	1640.	1640.	1987.	2337.	2824.	3363.	3956.	4604.	5281.	6175.	6534.	6534.	6534.	6534.	6534.	6534.
62-65	1640.	1640.	1640.	2049.	2515.	3074.	3725.	4410.	5156.	5943.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.
58-61	1640.	1640.	2132.	2749.	3393.	4170.	5007.	5099.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.
57 or less	1640.	2216.	2947.	3796.	4750.	5800.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.	6534.

TABLE C-m
LBS PER DAY OF BOD_5
(river mile 341.4 to 313.2)

Flow at Whirlpool Rapids (cfs)

Temp °F \ Flow cfs	390 or less	391-520	521-650	651-780	781-910	911-1040	1041-1300	1301-1560	1561-1820	1821-2080	2081-2340	2341-2600	2601 or more
MAY								(B)					
78+	957.	957.	1304.	2078.	2944.	3929.	5606.	6017.	5734.	6044.	6937.	8223.	9116.
74-77	957.	957.	1796.	2780.	3893.	5160.	6864.	6491.	6819.	7822.	9116.	9116.	9116.
70-73	957.	1231.	2325.	3573.	4986.	6573.	7138.	7366.	8432.	9116.	9116.	9116.	9116.
66-69	957.	1096.	3218.	4749.	6500.	7721.	7831.	8897.	9116.	9116.	9116.	9116.	9116.
62-65	1285.	2689.	4348.	6299.	8095.	8223.	9043.	9116.	9116.	9116.	9116.	9116.	9116.
58-61	1960.	3756.	5953.	8387.	8651.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
54-57	2881.	5369.	8432.	9052.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
50-53	4303.	7931.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
46-49	6691.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
45 or less	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
JUNE													
78+	957.	1185.	1759.	2407.	3145.	3984.	5378.	6655.	6436.	6755.	7621.	8806.	9116.
74-77	957.	1413.	2151.	3017.	3984.	5087.	6910.	7047.	7375.	8350.	9116.	9116.	9116.
70-73	957.	1650.	2607.	3710.	4968.	6381.	7530.	7794.	8824.	9116.	9116.	9116.	9116.
66-69	1185.	2215.	3409.	4795.	6372.	7986.	8186.	9116.	9116.	9116.	9116.	9116.	9116.
62-65	1650.	2935.	4458.	6244.	8277.	8514.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
58-61	2270.	3938.	5971.	8378.	8915.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
57 or less	3154.	5479.	8332.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
JULY-AUGUST													
78+	957.	957.	1158.	1550.	1996.	2480.	3300.	4558.	5160.	5032.	5324.	5962.	6828.
74-77	957.	957.	1486.	2051.	2689.	3400.	4576.	6053.	5916.	6336.	7165.	8323.	9116.
70-73	957.	1149.	1841.	2625.	3482.	4458.	6053.	6627.	7101.	8122.	9116.	9116.	9116.
66-69	957.	1677.	2571.	3583.	4731.	6007.	7411.	7940.	9116.	9116.	9116.	9116.	9116.
62-65	1276.	2315.	3491.	4850.	6372.	7949.	8423.	9116.	9116.	9116.	9116.	9116.	9116.
58-61	1860.	3218.	4831.	6700.	8423.	8925.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
57 or less	2671.	4576.	6883.	8852.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
SEPTEMBER													
78+	957.	957.	957.	1459.	2142.	2908.	4011.	5160.	4877.	4895.	5561.	6591.	7949.
74-77	957.	957.	1285.	2088.	2981.	3984.	5679.	5752.	5834.	6591.	7858.	9116.	9116.
70-73	957.	957.	1769.	2789.	3947.	5233.	6646.	6582.	7393.	8943.	9116.	9116.	9116.
66-69	957.	1468.	2598.	3883.	5333.	6965.	7293.	8077.	9116.	9116.	9116.	9116.	9116.
62-65	966.	2206.	3628.	5278.	7156.	7803.	8414.	9116.	9116.	9116.	9116.	9116.	9116.
58-61	1623.	3200.	5096.	7320.	8277.	8852.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
57 or less	2489.	4667.	7320.	8697.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
OCTOBER													
78+	957.	957.	957.	957.	957.	957.	2097.	3610.	4421.	4412.	4950.	6007.	7329.
74-77	957.	957.	957.	1531.	2480.	3254.	4339.	5451.	5451.	6117.	7366.	8979.	9116.
70-73	957.	957.	1531.	2598.	3774.	5096.	6436.	6317.	7056.	8769.	9116.	9116.	9116.
66-69	957.	1249.	2407.	3710.	5196.	6864.	7074.	7794.	9116.	9116.	9116.	9116.	9116.
62-65	957.	2024.	3455.	5141.	7047.	7648.	8186.	9116.	9116.	9116.	9116.	9116.	9116.
58-61	1431.	3027.	4941.	7202.	8141.	8660.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
54-57	2315.	4494.	7183.	8560.	9116.	9116.	9116.	9116.	9116.	9116.	9114.	9114.	9116.
50-53	3628.	6837.	8952.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
46-49	5816.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.
45 or less	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.	9116.

TABLE 7-M

LBS PER DAY OF BOD_5
(river mile 313.1 to 305.9)

Flow at Tomahawk Dam (cfs)

Temp °F \ Flow cfs	584 or less	585-778	779-972	973-1166	1167-1360	1361-1554	1555-1942	1943-2330	2331-2718	2719-3106	3107-3494	3495-3882	3883-4270	4271-4658	4659-5046	5047-5434	5435-5822	5823-6210	6211 or more
MAY																			
78+	2400	2400	2599	2712	2868	3039	3280	4374	6433	8733	10962	13064	14967	16472	18152	18152	18152	18152	18152
74-77	2400	2982	3323	3649	4004	4374	4927	7100	9642	12169	14512	16614	18152	18152	18152	18152	18152	18152	18152
70-73	2803	3664	4189	4729	5382	5921	7356	10139	13021	15677	18020	18152	18152	18152	18152	18152	18152	18152	18152
66-69	3834	4572	5382	6262	7143	8094	10423	13760	16884	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
62-65	4658	5652	6816	8051	9244	11076	14030	17778	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
58-61	5581	7057	8733	10267	12539	14910	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
54-57	6844	9017	11161	13959	16912	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
50-53	8761	11758	15279	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
46-49	11687	16231	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
42-45	16273	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
41 or less	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
JUNE																			
78+	2400	2400	3010	3763	4303	4757	5481	6376	8122	10011	11985	13817	15407	16827	18152	18152	18152	18152	18152
74-77	2400	2897	4004	4743	5382	5907	6773	8563	10749	12993	15009	16756	18152	18152	18152	18152	18152	18152	18152
70-73	2400	3919	4970	5822	6603	7228	8591	11119	13689	16046	18091	18152	18152	18152	18152	18152	18152	18152	18152
66-69	3635	5140	6291	7341	8307	9173	11445	14484	17310	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
62-65	4871	6376	7796	9102	10281	12056	14839	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
58-61	6063	7895	9699	11303	13476	15776	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
57 or less	7498	9933	12255	14924	17750	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
JULY-AUGUST																			
78+	2400	2400	2400	2400	2868	3252	3735	4217	5155	6873	8605	10238	11658	12894	14101	15137	16103	16784	17551
74-77	2400	2400	2797	3436	3990	4459	5084	5836	7810	9784	11644	13305	14740	15932	17182	18152	18152	18152	18152
70-73	2400	2911	3791	4544	5254	5836	6617	8406	10693	12808	14697	16344	17778	18152	18152	18152	18152	18152	18152
66-69	2883	4132	5169	6134	7043	7853	9131	11014	14370	16571	18152	18152	18152	18152	18152	18152	18152	18152	18152
62-65	4061	5410	6702	7938	9102	10096	12510	15606	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
58-61	5240	6930	8634	10210	11672	13703	16586	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
57 or less	6646	8960	11161	13234	15805	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
SEPTEMBER																			
78+	2400	2400	2400	2400	2400	2400	2400	2400	4274	6646	8875	11019	12908	14512	16103	17452	18152	18152	18152
74-77	2400	2400	2400	2400	2400	2670	3280	5155	7696	10196	12539	14626	16458	18152	18152	18152	18152	18152	18152
70-73	2400	2400	2428	3152	3891	4544	5609	8364	11204	13817	16131	18148	18152	18152	18152	18152	18152	18152	18152
66-69	2400	2925	3891	4899	5879	6698	8818	12098	15180	17835	18152	18152	18152	18152	18152	18152	18152	18152	18152
62-65	3081	4232	5552	6873	8051	9628	12496	16188	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
58-61	4283	5836	7611	9230	11190	13504	16870	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
57 or less	5623	7938	10181	12681	15577	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
OCTOBER																			
78+	2400	2400	2400	2400	2400	2400	2400	2400	3238	5581	8009	10252	12226	13973	15634	17068	18152	18152	18152
74-77	2400	2400	2400	2400	2400	2400	2854	4288	6844	9457	11900	14044	15989	17636	18152	18152	18152	18152	18152
70-73	2400	2400	2400	2556	3238	3848	4913	7668	10579	13305	15663	17758	18152	18152	18152	18152	18152	18152	18152
66-69	2400	2457	3380	4345	5282	6063	8193	11516	14683	17395	18152	18152	18152	18152	18152	18152	18152	18152	18152
62-65	2712	3806	5084	6362	7498	9060	11942	15677	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
58-61	3848	5439	7171	8733	10664	12993	16387	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
54-57	5311	7554	9741	12184	15000	17821	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
50-53	7341	10409	13604	17239	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
46-49	10352	14626	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
42-45	14768	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152
41 or less	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152	18152

WQ-4-81

2. For any one day period, the actual discharge for the point source may not exceed 106.5% of the allocation for that day calculated for those flow/temperature regimes identified as Condition B in Table 7-m. No percentage adjustments shall be made for conditions identified as Condition A in Table 7-m.

(3) The flow and temperature conditions used to determine compliance with permit effluent limits shall be the representative measurements of the flow and temperature of the previous day.

The foregoing rules were approved and adopted by the State of Wisconsin Natural Resources Board on March 26, 1981.

The rules contained herein shall take effect as provided in section 227.026(1) (intro.), Wisconsin Statutes.

Dated at Madison, Wisconsin July 14, 1981

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES

By Carroll D. Besadny
Carroll D. Besadny, Secretary

(SEAL)

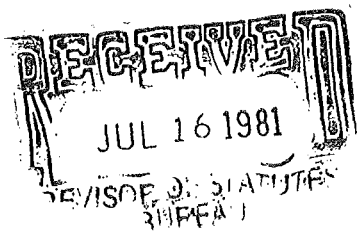
State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

BOX 7921
MADISON, WISCONSIN 53707

IN REPLY REFER TO: _____

Mr. Orlan L. Prestegard
Revisor of Statutes
411 West
C A P I T O L



Dear Mr. Prestegard:

Enclosed are two copies, including one certified copy, of State of Wisconsin Natural Resources Board Order No. WQ-4-81. These rules were reviewed by the Assembly Committee on Environmental Resources and the Senate Committee on Agriculture and Natural Resources pursuant to s. 227.018, Stats. There were no comments.

You will note that this order takes effect following publication. Kindly publish it in the Administrative Code accordingly.

Sincerely,

C. D. Besadny
Secretary

Enc.