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Surveillance and Analysis Division Data Analysis Branch

Water Quality Trends in Region VIII

1979 Data

WATER QUALITY TRENDS

IN REGION VIII

(1979 DATA)

Data Analysis Branch
Surveillance and Analysis Division
Denver, Colorado
October 1980

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ABSTRACT

Water quality trends and status for the calendar year 1979 were determined for the six states in Region VIII. These states include Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming. Data resident in the EPA national data bank (STORET) were analyzed.

Statistical tests which detect significant differences between two populations were utilized to show trends in water quality. The status and severity of stream pollutants were determined by comparing observed parameter concentrations to state Water Quality Standards or recognized criteria.

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SECTION I

INTRODUCTION

Water quality monitoring activities have increased substantially in Region VIII over the past few years both in scope and frequency. These increases are due to public demand for accurate information about harmful pollutants in the environment and to the passage of Federal Legislation, namely, the Clean Water Act, 1979. To fulfill the requirements of these legislative mandates Federal and State agencies have planned and developed extensive monitoring networks which have generated a mass of environmental quality data.

The purpose of this report is to present useful analytical summaries for Region VIII of the Environmental Protection Agency utilizing environmental quality data resident in the water data storage and retrieval system (STORET). Quality status and trends for streams have been determined from observed measurements over successive time periods.

SUMMARY AND CONCLUSIONS

Trend analyses (1975-1978 vs. 1979) of all pertinent water quality data available in the STORET system for Region VIII indicates that 305 of 774 stations processed experienced significant changes (improvement or degradation) for at least one parameter group. Of those stations which exhibited significant trends and which were also found to have concentrations generally considered at critical levels during the period 1975-78, 131 were found to have improved and 232 were found to have degraded.

The changes in quality that could be mostly attributed to the affects of man, as indicated by the stations where high fecal coliform bacteria concentrations are present, were observed at the stations listed below:

Significant Degradation

Arkansas R nr Nepesta, CO

Uncompahagre R at Delta, CO

Arikaree R nr Wray, CO

Left Hand Cr nr Niwot, CO

Boulder Cr at Boulder - Weld County Line, CO

Big Sioux R nr Canton, SD

Big Sioux R nr Hudson, SD

Colorado R at Lees Ferry, AZ

Significant Improvement

Missouri R nr Schmidt, ND

Big Sioux R abv Watertown, SD

N Platte R blw Casper, WY

For the non-point sources of pollution, where total dissolved solids concentrations have been determined to be at critical levels, degradation occurred at 34 stations in the region and improvements were noted at 20 stations.

The section of this report entitled "Regional Summary" discusses in more detail the findings with regard to specific pollutant groups.

ANALYTICAL PROCEDURES

Water quality data (1975-1979) for 885 active monitoring stations in the six States of Region VIII were retrieved from STORET (EPA's computerized water quality data base) and screened through computerized trending techniques. Forty-six STORET water quality parameters which fall in the general categories of bacteria, nutrients, dissolved solids, suspended solids, aesthetics, and inorganic toxicants were selected for this trend study and were analyzed in a two step process. First, to describe pollution severity, each observed water quality observation was compared to a state standard or criterion and averaged on a monthly basis. The ratio of the number of criteria exceedences to the total number of observations resulted in a probability of exceedence statistic for each parameter. Ranking of the critical stations could then be accomplished by selecting the highest statistical values. Secondly, to determine pollution trends, the 15th, 50th (median) and 85th percentile values for two time periods were compared for each parameter with sufficient data. A standard statistical test, requiring at least six observations for a parameter in each time period was used to test for a significant difference between the two time periods. Significant changes in the 50th percentile measurements are generally indicative of overall changes in concentrations, while significant changes in the 85th percentile measurement (15th percentile for dissolved oxygen) are generally indicative of changes during critical periods. The procedures for determining improvement or degradation is described in the trend analysis section.

Severity Analysis

Each observed data value was compared to its respective water quality standard or to some recognized criterion based on water quality use. The standards or criteria used in the analysis are included in the appendix. Only the data values that were higher than standards/criteria levels were reported. The Table of Stations where Water Quality Concentrations Exceed Criteria contains the symbolic representation of those values that were categorized between standard and 15 percent over, 15-85 percent above, and greater than 85 percent above the standards/criteria levels. Also, included in the tables is the probability of exceedence statistic which is a function of the frequency of criteria violations.

Trend Analysis

The statistical test ("The Median Test," Practical Nonparametric Statistics, W.J. Conover, John Wiley & Sons, Inc., New York, 1971, pages 167-172.) that was used to analyze water quality trends is a nonparametric technique for testing the hypothesis that random samples from two or more populations have the same median. The test is a special application of a chi-square contingency table test with fixed marginal totals. The same test can be used against other percentiles than the 50th but the discussion here describes only the median.

Given k populations each with a random sample of size n_i , $i=1,2,\dots,k$, a test statistic can be constructed to test the hypothesis:

H_0 : all k populations have the same median.

H_A : at least two populations have different medians.

The test statistic is computed from the $2 \times k$ contingency table:

Sample	1	2	3	\dots	k	Total
Median*	o_{11}	o_{12}	o_{13}	\dots	o_{1k}	a
Median*	o_{21}	o_{22}	o_{23}	\dots	o_{2k}	b
Total	n_1	n_2	n_3	\dots	n_k	N

$$T = \frac{N^2}{ab} \sum_{i=1}^c \frac{\left(o_{1i} - \frac{n_i a}{N}\right)^2}{n_i}$$

* Refers to overall median of the combined samples.

The test for the statistic assumes:

The samples are random.

The samples are independent of each other.

The measurement scale is ordinal.

If all populations have the same median, they have the same probability of an observation exceeding the median.

A large sample approximation is used to approximate T. The critical region of approximate size α corresponds to values of T greater than $x_{1-\alpha}$ the $(1-\alpha)$ quantile of a chi-square random variable with $k-1$ degrees of freedom. If T exceeds $x_{1-\alpha}$ reject H_0 ; otherwise accept H_0 . The author notes that the approximation may not be satisfactory if more than 20% of the n_i are less than 10, or if any of the n_i are less than 2. It further qualifies this rule of thumb for larger numbers of samples k.

The test was applied to each pollutant parameter at every station in the Region not only for the median but also the 15th, and 85th percentiles. Data observed during the years 1975 through 1977 comprise one test population and data from the year 1978 made up the other population. Each sample was required to have at least six observations. This technique made it possible to detect statistically significant differences between the two time periods.

The following procedures were used to determine if the observed significant differences represented an improvement or a degradation:

Examine the 15th and 50th percentile for dissolved oxygen - for all other parameters examine the 85th and 50th percentile.

If a significant difference between two time periods for either of the percentile statistics exists and both percentile statistics decrease from the first time period to the second, designate this as improvement. (For oxygen this is a degradation).

If a significant difference between two time periods for either of the percentile statistics exists and both percentile statistics increase from the first time period to the second, designate this as degradation. (For dissolved oxygen this is an improvement).

It was assumed that the samples were random and independent of one another. Given that these data are time series data, taken at irregular intervals, affected by seasonal cycles, etc., certain modifications of this technique might be advisable in future applications.

WATER QUALITY STANDARDS

Section 303(c) of the Clean Water Act and attendant regulations and guidelines require states to review and revise their water quality standards at least once every three years. Water quality standards are an essential part of the State water quality management program. State water quality standards:

- o Publicly define the State's water quality objectives, and hence form the basis of State and Areawide 208 planning and State Program Plans;
- o Serve as the basis for determining National Pollution Discharge Elimination System (NPDES) permit effluent limitation for pollutants not specifically addressed in the effluent guidelines, or secondary treatment standards or for pollutants for which effluent guidelines are not stringent enough to protect desired uses;
- o Serve as a basis for judgement in other water quality related programs including the priority system for Section 201 Construction Grants, water quality inventories, control of toxic substances, thermal discharges, and dredge and fill activities;

- o Serve as a basis for evaluating and, where necessary, modifying best management practices for control of nonpoint sources;
- o Contain the State's antidegradation policy.

State water quality standards consists of three basic elements. These are designated beneficial use(s), criteria which are numeric and narrative, and an antidegradation policy.

States are encouraged to classify all surface waters for existing and potential future beneficial uses. Beneficial uses can include drinking water supply, navigation, agricultural, industrial, recreation and aquatic and terrestrial life protection. The U.S. Environmental Protection Agency strongly encourages states to classify all surface waters for aquatic life use and recreation in and on the water, wherever attainable.

Water quality standards contain the States' policy on antidegradation. Antidegradation policies indicate that:

- o Existing instream beneficial uses must be maintained and protected;
- o Existing high quality water must be maintained at existing high quality unless the State decides to allow limited degradation where economically or socially justified. If limited degradation is allowed, it cannot result in violation of water quality criteria which describe the base levels necessary to sustain the national water quality goal of protection and propagation of fish, shellfish and wildlife and recreation in and on the water;

- o In all cases, water which constitute an outstanding national resource must be maintained and protected.

Water quality criteria specify concentrations of water constituents which, if not exceeded, are expected to support the applicable use designation to which a stream or lake is assigned. Such criteria are derived from scientific data obtained from laboratory or in situ observations which depict an organisms responses to a defined stimulus or material under identifiable or regulated environmental conditions for a specified time period. They are intended not only to protect essential and significant life in water, as well as the direct users of water, but also to protect life that is dependent on life in water for its existence, or that may consume intentionally or unintentionally any edible portion of such life.

The water quality criteria used to develop this report derive from several sources, the principal source being the State water quality standards. In these cases where existing State water quality standards were parametrically limited, other criteria references were utilized and are identified as such within this report (see Appendix). These criteria references include the "Red Book," "Blue Book," "Green Book," Drinking Water Regulations and the draft criteria document for the 65 NRDC Toxics. It should be noted that the values extracted from those references are only guidelines and cannot be considered as standards. They simply provide a point of reference about which the relative water quality for a particular station or change therein can be judged. An exceedence of a criterion should not be

construed to imply that a given beneficial use is being impaired. This type of demonstration can only be accomplished through intensive investigations. Conversely, some States have, through intensive research, established water quality standards for certain parameters which require levels lower than those used in this report. This is especially true of nutrients. The values for the nitrogen and phosphorus series used in the report are only very rough approximations of the conditions which might be indicative of a nutrient enriched environment. The U.S. Environmental Protection Agency strongly advocates the use of site-specific limnological surveys to establish nutrient standards.

The criteria for public water supplies derive from the Interim Primary Drinking Water Regulations. These regulations indicate that the criteria apply at the end of the tap. This report has, however, used them to approximate the quality of raw water sources classified as public water supplies.

SECTION II
REGIONAL WATER QUALITY SUMMARY

REGIONAL OVERVIEW OF WATER QUALITY

A Summary of Parameter Groups Significantly Exceeding Criteria

The regional map displays that appear in this section describe the more significant problem areas identified through computer analysis of each parameter group for monitoring stations with 1979 data. The observed data were compared to State water quality standards or recognized criteria and if the values were greater than standards/criteria then the probability of exceedence was calculated and reported. The maps illustrate where concentrations exceeded standards/criteria by more than 85 percent for at least one month during 1979. These maps were generated from the Table of Stations where Water Quality Concentrations Exceed Criteria in the section titled, "State Reports." It should be recognized that even though problems may exist in areas where insufficient data were collected, no problem condition was reported. Since few occurrences of a critical nature were noted for dissolved oxygen, no maps are presented to describe this group.

Fecal Coliform Bacteria

The map on the facing sheet illustrates the general locations of the water quality monitoring stations contained in the Table of Stations where Water Quality Concentrations Exceeds Criteria.

Below are listed the ten most critical stations in the region for fecal coliform bacteria concentrations. Values for the States of Montana and Utah were based on USGS data only.

	<u>Exceedence Probability</u>
1. Whitewood Cr nr Deadwood, SD	1.00
2. Goose Cr nr Sheridan, WY	1.00
3. Bitter Cr nr Kanda, WY	1.00
4. White R nr Kadoka, SD	1.00
5. Cheyenne R nr Plainview, SD	1.00
6. Killpecker Cr nr Rock Springs, WY	0.88
7. Rapid Cr blw Rapid City, SD	0.71
8. Cache La Poudre R nr Greeley, CO	0.70
9. Big Sioux R nr Akron, IA	0.69
10. Hams Fork R nr Diamondville, WY	0.67

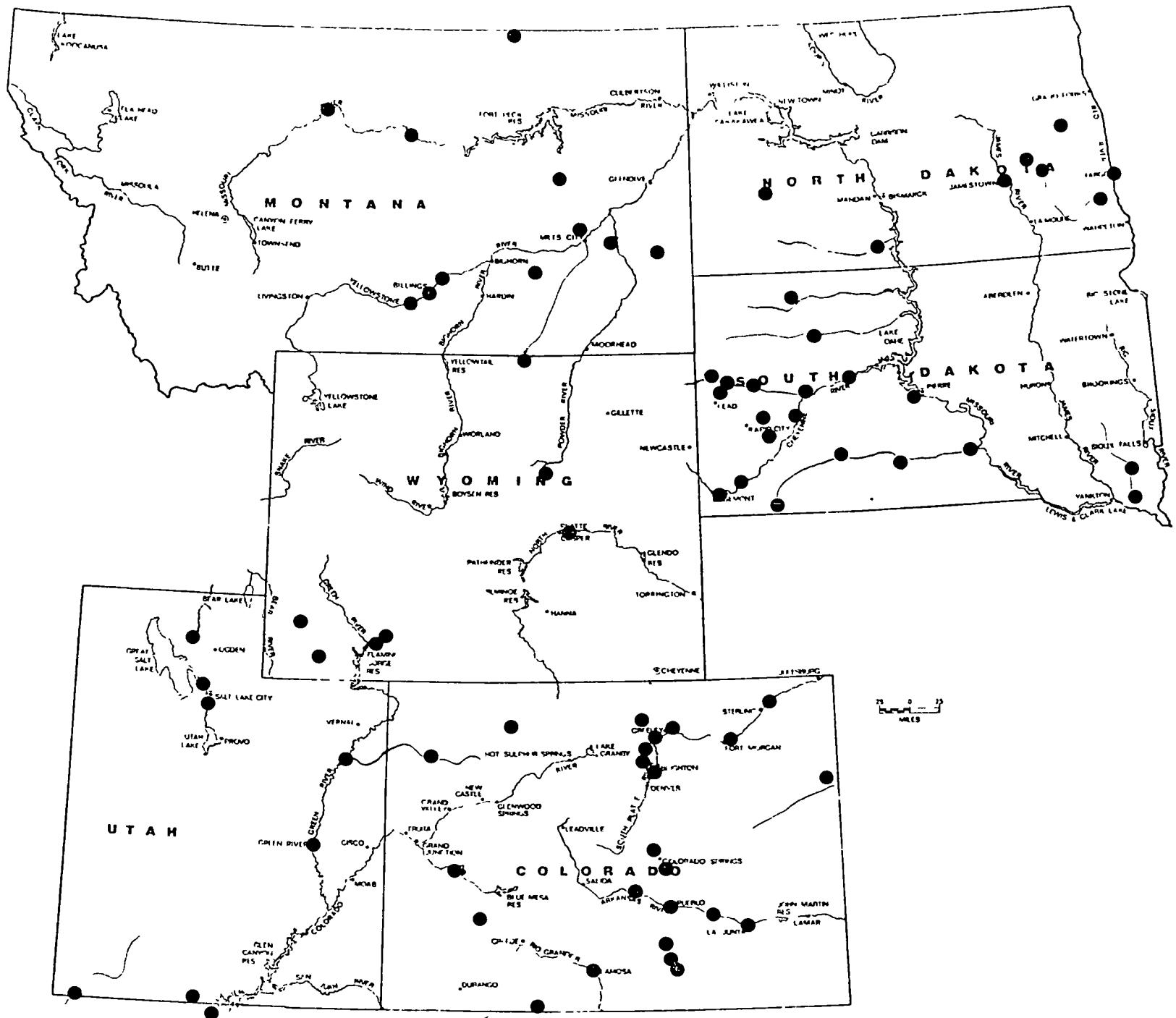


Figure 1. Stations where Fecal Coliform Bacteria concentrations were at least 85 percent higher than Standards for one month or more during 1979.

Nitrogen

The Table of Stations where Water Quality Concentrations Exceed Criteria contains the nitrogen category which is made up predominately of total nitrogen and some observed concentrations of the Nitrites and Nitrates. It appears that a larger percentage of the high nitrogen concentrations occurred in the States of Montana and North Dakota during the months of March and April.

Below are the ten stations that had the highest probability of exceedence on the basis of four consecutive monthly observations or more:

	<u>Exceedence Probability</u>
1. West Parrot Cr nr Roundup, MT	1.00
2. Red R of the North at Halstad, ND	1.00
3. Fountain Cr blw Colorado Springs, CO	1.00
4. South Platte R nr Kersey, CO	1.00
5. Sheyenne R nr Kindred, ND	0.96
6. Arkansas R nr Avondale, CO	0.93
7. Souris R nr Westhope, ND	0.92
8. South Platte R at Henderson, CO	0.90
9. South Platte R nr Greeley, CO	0.88
10. Powder R at Moorhead, MT	0.75

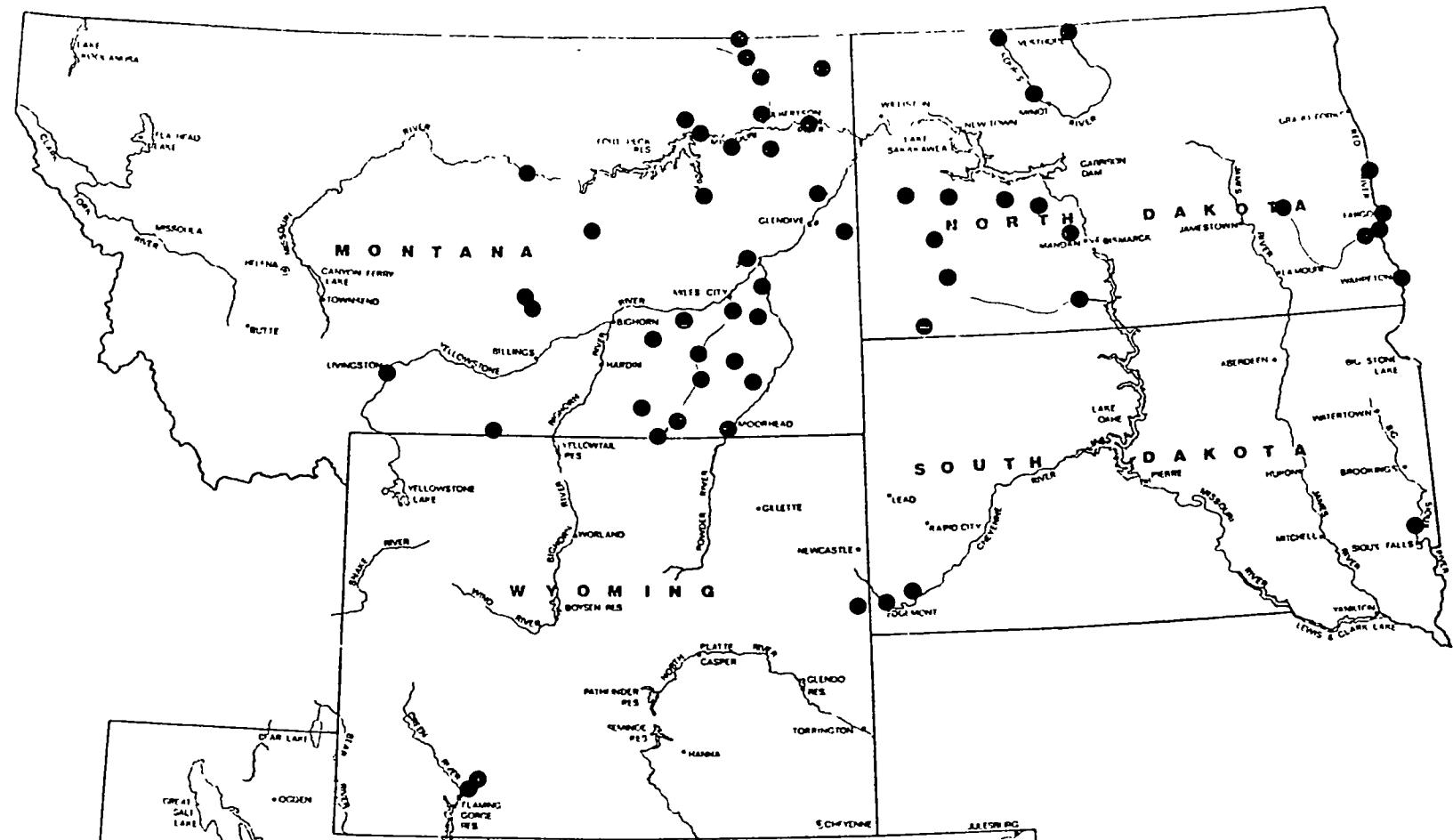
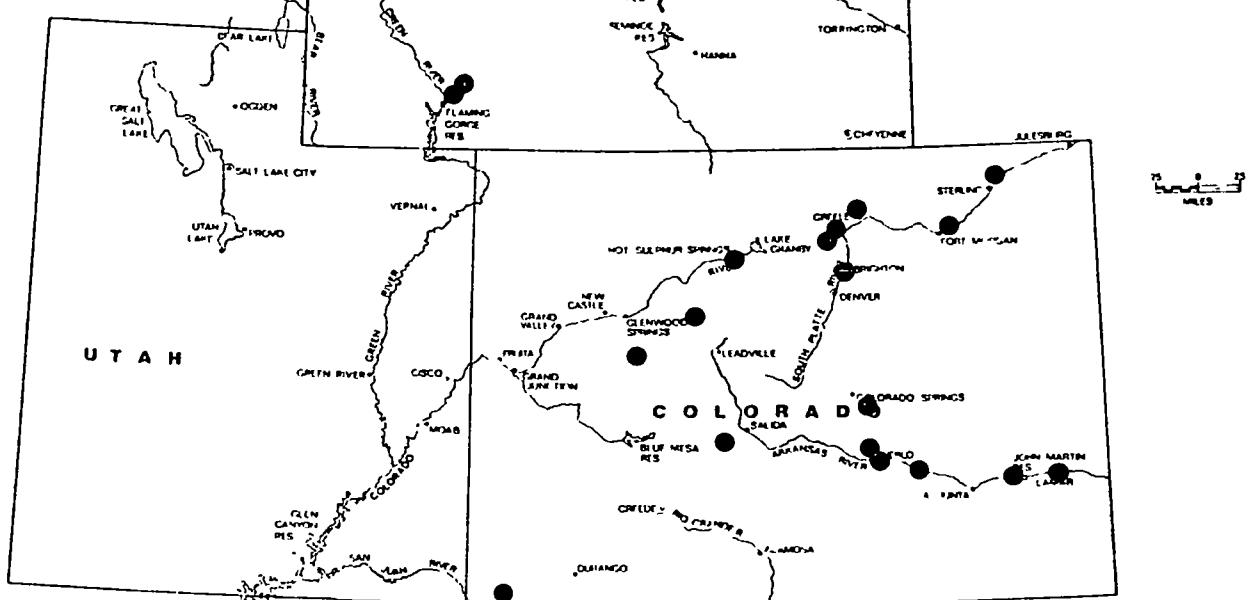


Figure 2. Stations where Nitrogen concentrations were at least 85 percent higher than Standards for one month or more during 1979.

Phosphorus

The map illustrates the widespread occurrence of phosphorus contributed to streams from natural sources. The areal extent of phosphorus generally describes where the sedimentary formations are found in the region. Major contributions occur during the month of April at the start of the snowmelt and runoff period. When phosphorus in streams combine with nitrogen it presents a potential hazard to the trophic status of many reservoirs in the region.

Below are listed the stations with the highest probability of exceedence and the highest average phosphorus concentrations:

	<u>Exceedence Probability</u>	<u>Average Conc/Criteria</u>
1. South Platte R at 88th Ave., Denver, CO	1.00	34.0
2. South Platte R at Henderson, CO	1.00	28.9
3. Killpecker Cr at Rock Springs, WY	1.00	28.2
4. Boulder Cr at Boulder-Weld County Line	1.00	12.3
5. Big Sioux R - Brandon to Richland, SD	1.00	12.0+
6. South Platte R nr Kersey, CO	1.00	8.5
7. Cache La Poudre R nr Greeley, CO	0.95	8.4
8. Big Sioux R at Akron, IA	1.00	7.7
9. Rapid Cr nr Farmingdale, SD	1.00	7.3
10. South Platte R at 66th Ave., Denver, CO	1.00	5.9

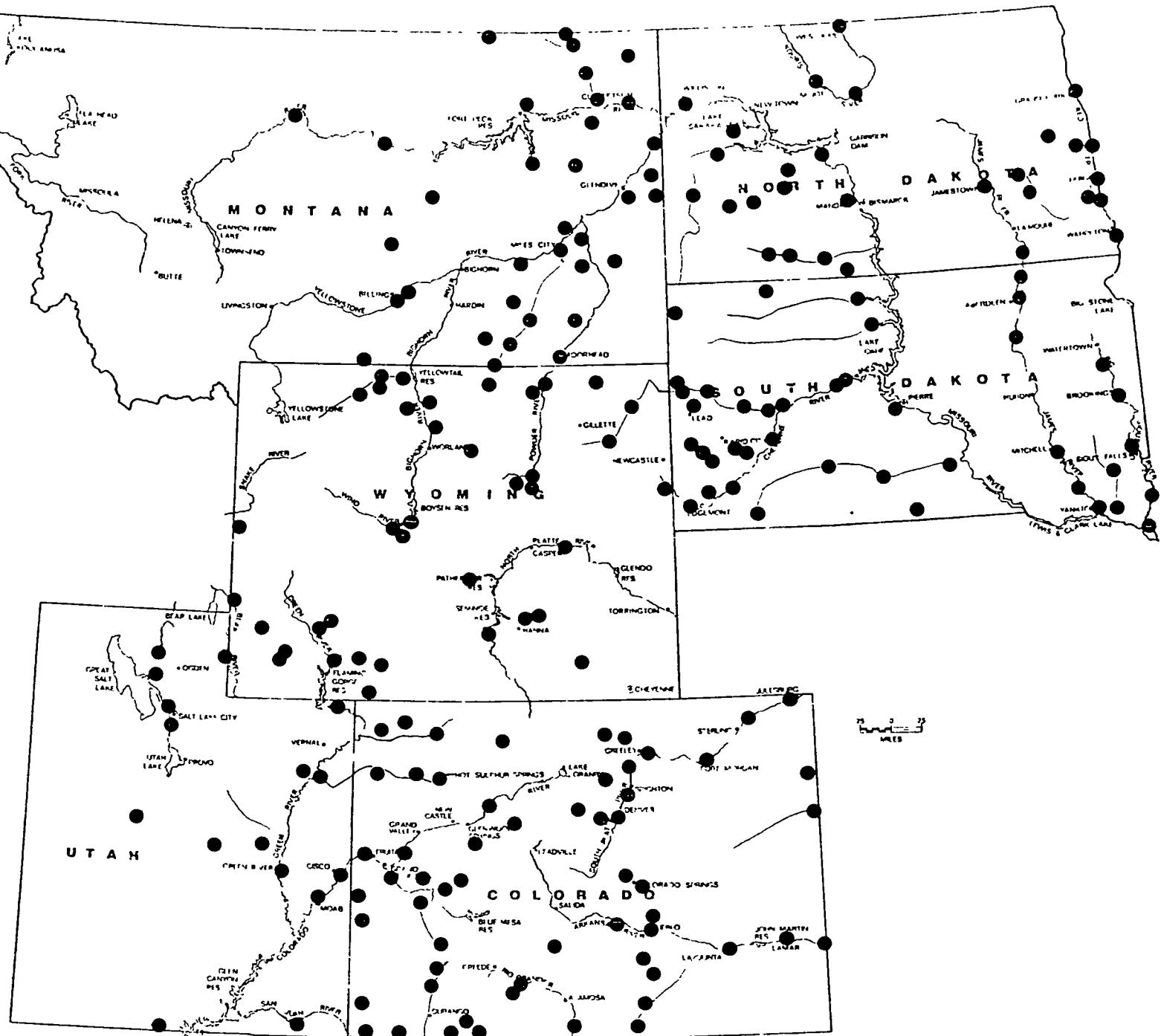


Figure 3. Stations where Phosphorus concentrations were at least 85 percent higher than criteria for one month or more during 1979.

Total Dissolved Solids (TDS)

Most of the streams in the region originate in the high mountain areas where the underlying formations are of igneous origin. Here the concentrations of TDS can be expected to be less than 50 mg/l but as soon as the river enters in its descent the sedimentary formations the pickup of salts increases substantially. The map on the facing page illustrates where concentrations over 900 mg/l were observed.

The ten most critical stations as determined by high concentrations and occurrences are listed below:

	<u>Exceedence Probability</u>	<u>Average Conc. mg/l</u>
1. Bitter Cr nr Bonanza, UT	1.00	12576
2. Salt Cr nr Sussex, WY	1.00	4274
3. Otter Cr nr Otter, MT	1.00	5085
4. Bitter Cr nr Salt Wells, WY	1.00	3671
5. Beaver Cr nr Newcastle, WY	1.00	3430
6. Hanging Woman Cr blw Horse Cr, MT	1.00	5055
7. Cucharas R blw Walsenburg, CO	1.00	5212
8. McElmo Cr at CO-UT Line	1.00	2442
9. Redwater R at Circle, MT	0.92	3123
10. Cheyenne R at Edgemont, SD	0.75	3648

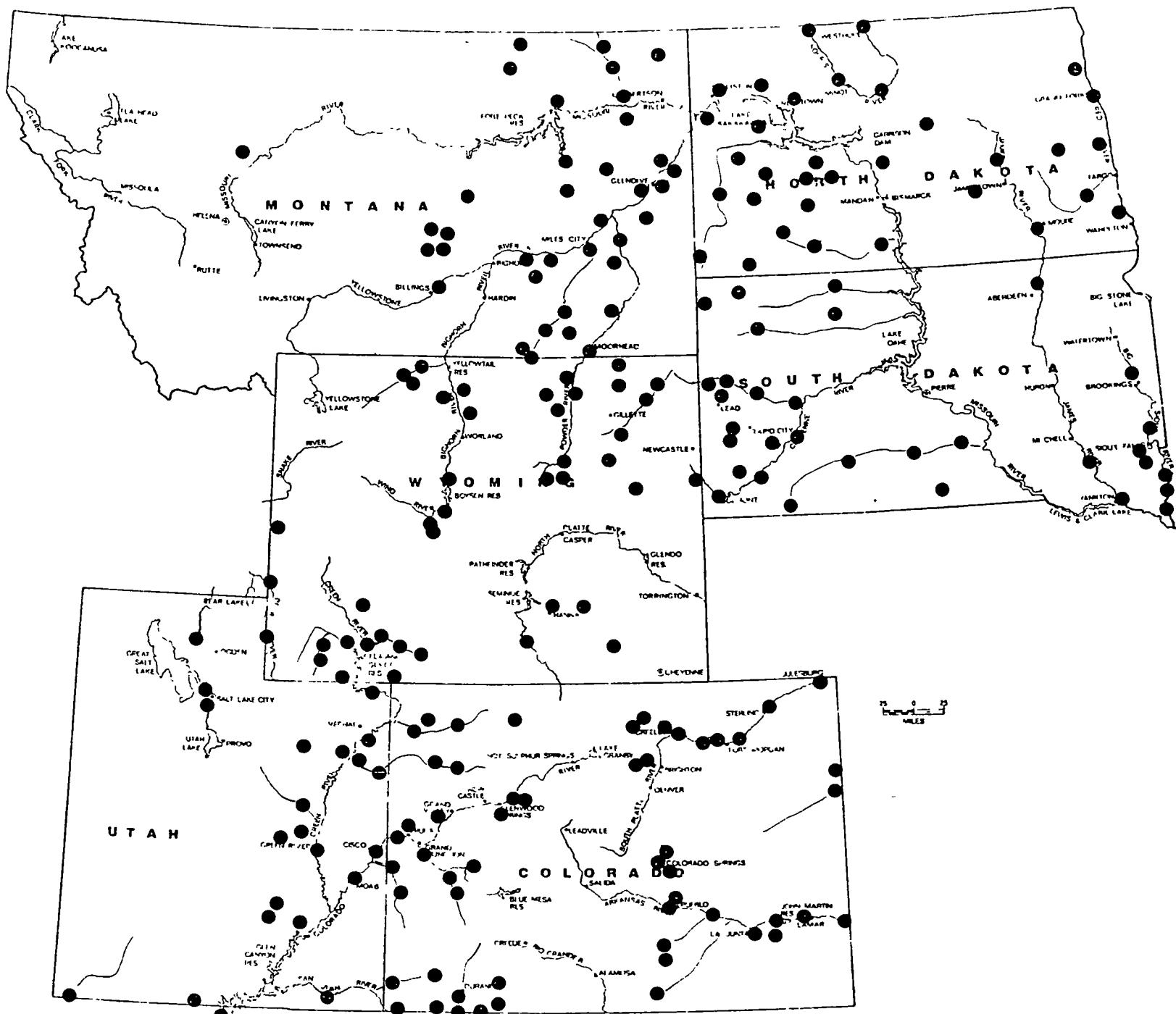


Figure 4. Stations where Total Dissolved Solids concentrations were at least 85 percent higher than criteria for one month or more during 1979.

Suspended Sediment

Characteristically, the locations with high concentrations of suspended sediments are also those locations where high total dissolved solids concentrations occur. The Table of Stations where Water Quality Concentrations Exceed Criteria illustrates that high suspended solids occur during high streamflow conditions and high TDS concentrations generally occur during the low streamflow conditions.

The stations in the region that exhibit the highest values for suspended sediments are:

	<u>Exceedence Probability</u>	<u>Average Conc. mg/l</u>
1. San Juan R nr Shiprock, NM	1.00	5877
2. Salt Wells Cr nr Salt Wells, WY	1.00	11070
3. San Juan R nr Bluff, UT	0.92	5268
4. Green R at Green River, UT	0.92	5264
5. White R at Oacoma, SD	0.78	7077
6. Powder R at Moorhead, MT	1.00	4057
7. San Juan R at Four Corners	1.00	3049
8. Muddy Cr nr Hanksville, UT	1.00	6130
9. Muster Cr at Kinsey, MT	1.00	6700
10. Powder R at Sussex, WY	1.00	1547

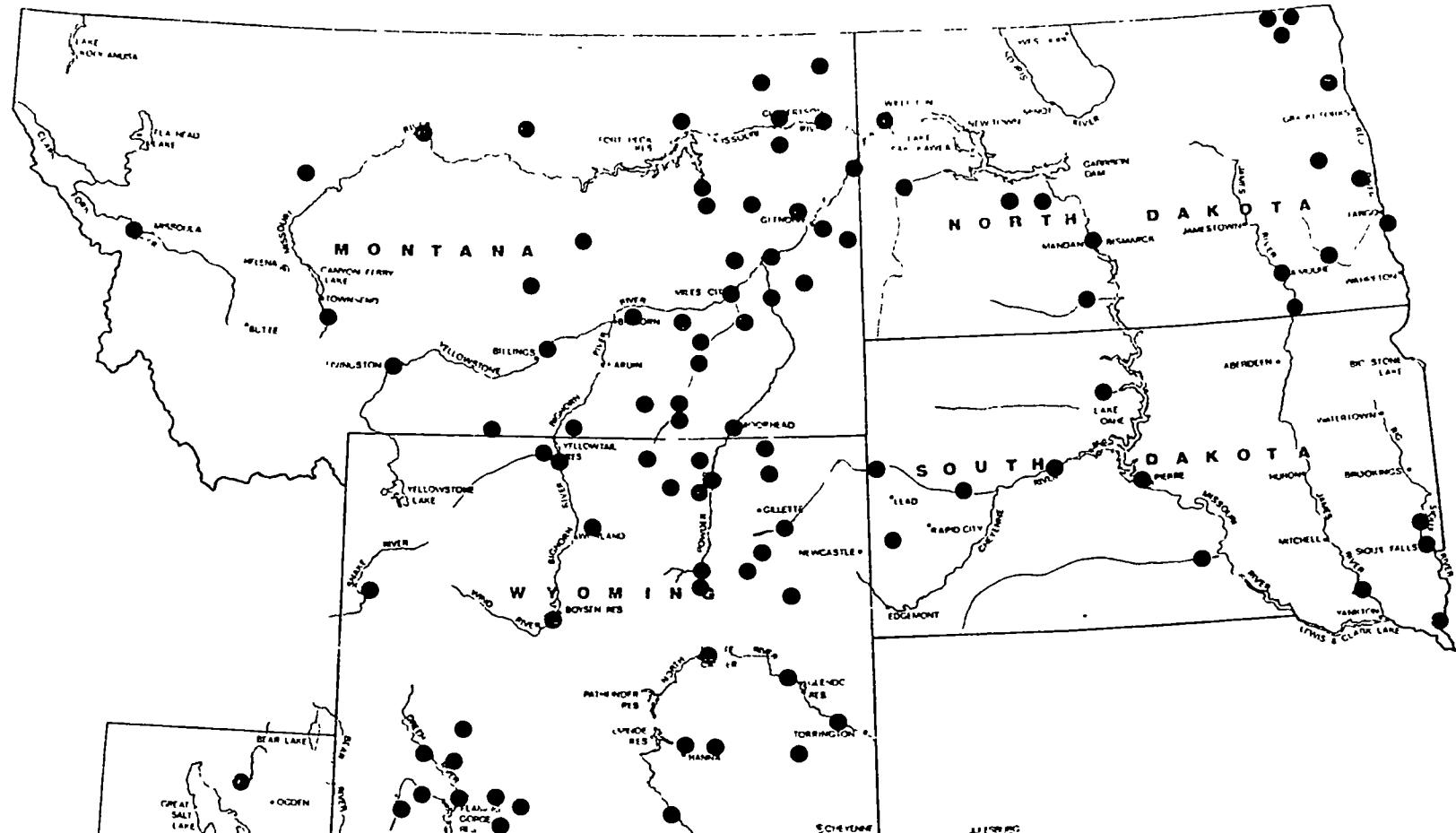
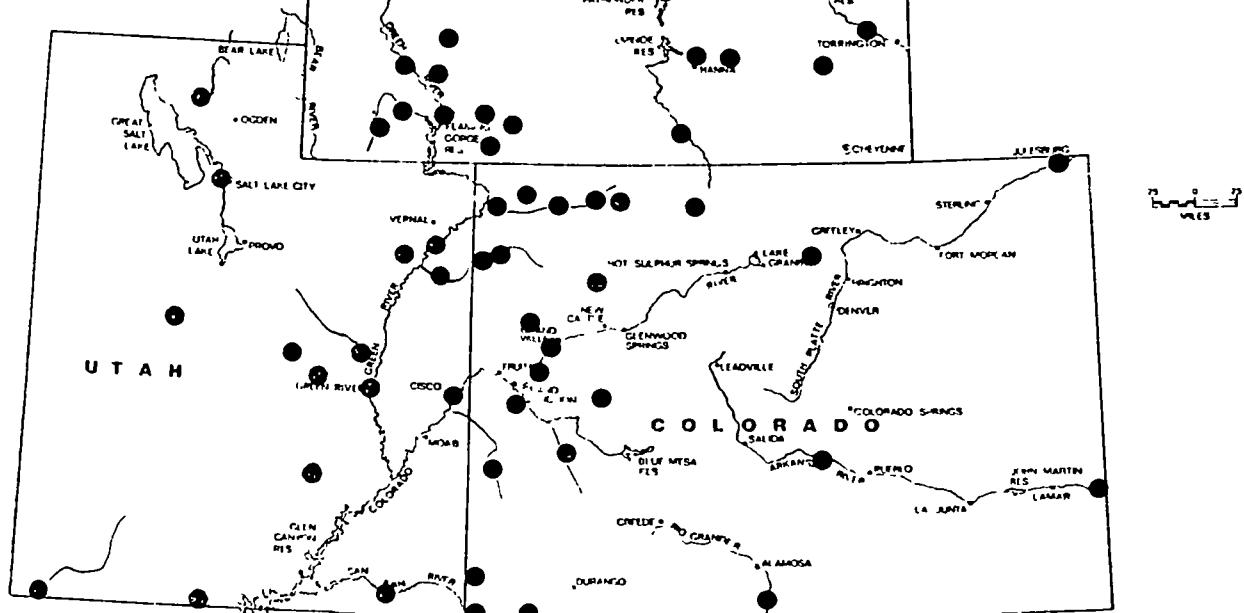


Figure 5. Stations where Suspended Sediment concentrations were at least 85 percent higher than criteria for one month or more during 1979.

Trace Elements

During 1979, a few trace element concentrations exceeding criteria were detected in the region. Those stations where the highest values were determined are as follows:

Animas R nr Silverton, CO	(Cu, Zn)
Clear Cr abv Golden, CO	(Cu, Zn)
Arkansas R blw Leadville, CO	(Zn)
Jordan R at 1700 S, SLC, UT	(Hg ¹)

Refer to the Table of Stations where Water Quality Concentrations Exceed Criteria in the section entitled "State Reports" for additional stations where high values were noted.

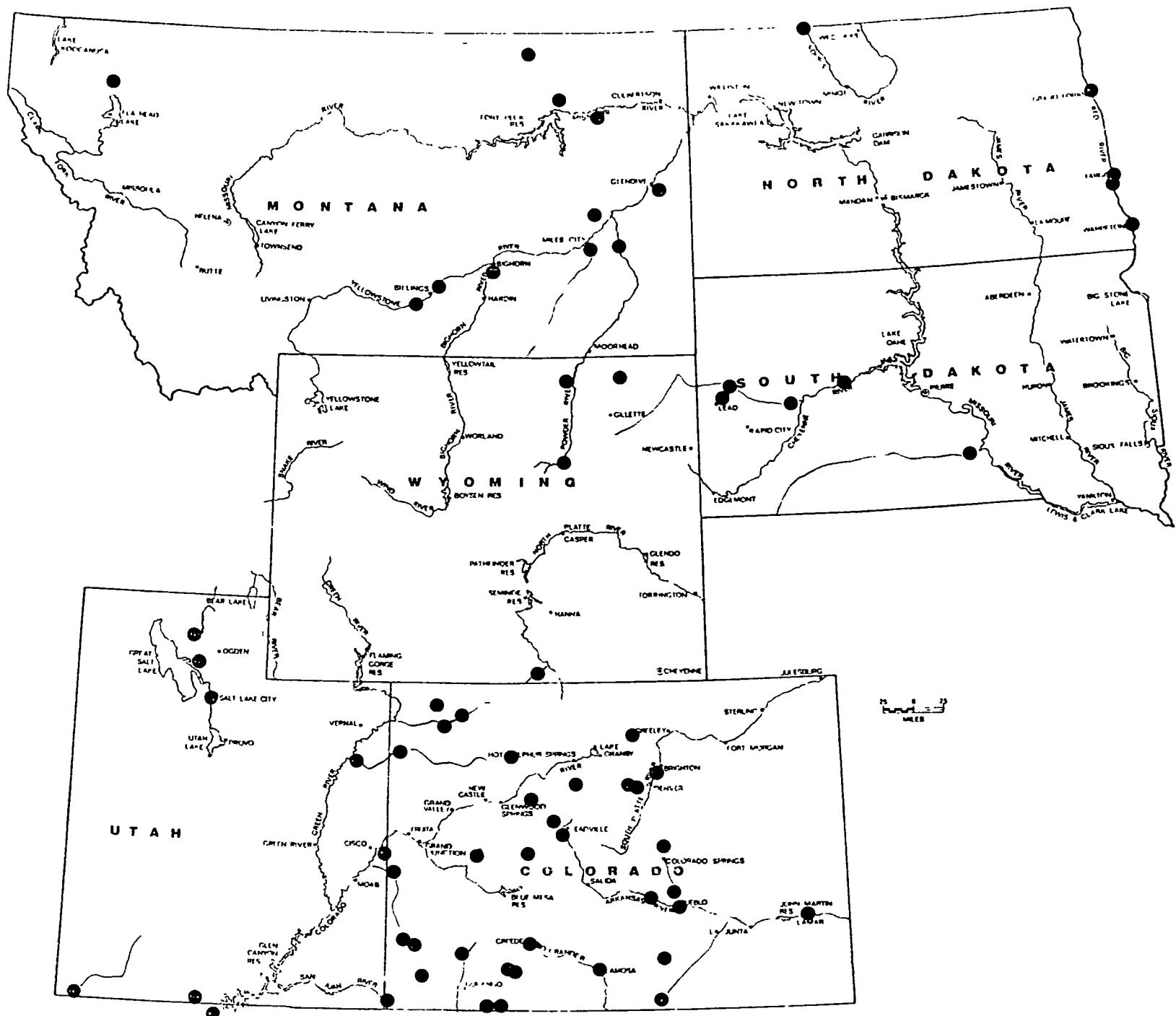


Figure 6. Stations where one or more observed Cyanide or Trace Element concentrations were detected to be at least 85 percent higher than Standards/criteria.

Un-ionized Ammonia

Water Quality Indicator values for un-ionized ammonia were determined at each station where the STORET parameters of total ammonia ($\text{NH}_3\text{-N}$), temperature, and pH were observed for the same water sample. The calculation procedure is described in William T. Willingham's 1976 report, "Ammonia Toxicity."

The following stations exhibited ammonia concentrations at high levels for at least two months of the year in 1979:

Fountain Cr blw Colorado Springs, CO

South Platte R at Henderson, CO

Whitewood Cr at Pluma, CO

Dolores R nr Cisco, UT

Jordan R at 1700 So., SLC, UT

STATE WATER QUALITY REPORTS

This section is comprised of three major tables. The table, Ranking of Critical Water Quality Stations by Pollutant Group is a summary of stations where parameter concentrations and frequency of occurrences were highest.

The Table of Stations where Water Quality Concentrations Exceed Criteria lists those stations where water quality parameters, arranged by groups, were noted to be at three levels above the standards/criteria norm, namely: standards/criteria to 15 percent above, 15-85 percent above standard/criteria, and greater than 85 percent above standard/criteria.

The Water Quality Trend Table lists stations where parameter groups exhibited significant changes over time as determined by statistical tests. This table shows quality improvement or degradation in each parameter group and points out those groups which are at or approaching critical levels. Data for 1975, 1976, 1977, and 1978 were trended against data for 1979 in determining this table.

Table 1. Ranking of Critical Water Quality Stations by Pollutant Group

<u>Fecal Coliform</u>	<u>Exceed. Prob.</u>	<u>No. Mos. Exc'd</u>	<u>Avg. Conc. mg/l</u>
1. Cache La Poudre R nr Greeley	0.70	10	16879
2. Arkansas R nr Nepesta	0.45	7	20239
3. St Vrain Cr blw Longmont	0.62	8	7355
4. S Platte R at Henderson	0.45	7	10879
5. Boulder Cr at Boulder - Weld County Line	0.60	7	6317
6. S Platte R nr Kersey	0.62	9	2523
7. Little Thompson nr Milliken	0.52	9	1927
8. Clear Cr blw Idaho Springs	0.50	4	2800
9. Left Hand Cr nr Niwot	0.60	3	2268
10. Huerfano R at Hwy 85	0.50	3	1559

Nitrogen

1. Fountain Cr blw Colorado Springs	1.00	5	0.34
2. Arkansas R nr Avondale	0.93	6	0.27
3. S Platte R nr Kersey	1.00	5	0.14
4. Indian Cr nr Sargent's	1.00	2	0.30
5. Cache La Poudre nr Greeley	0.88	5	0.12
6. S Platte R at Henderson	0.90	5	0.11
7. Fountain Cr nr Pinon	0.75	3	0.12
8. St Vrain Cr blw Longmont	0.63	4	0.10
9. Clear Cr nr Mouth	0.67	4	0.09
10. S Platte R blw Ft Morgan	1.00	2	0.09

Phosphorus

1. S Platte R at Henderson	1.00	12	2.89
2. Fountain Cr blw Colorado Springs	1.00	11	3.06
3. Boulder Cr at Boulder - Weld County Line	1.00	12	1.24
4. S Platte R - 60th Avenue Denver to Julesburg	1.00	12 ⁺	0.85
5. St Vrain Cr blw Longmont	1.00	10	0.68
6. Big Thompson R nr Mouth	1.00	12	0.49
7. Arkansas R - Nepesta to La Junta	1.00	8	0.43
8. Williams Fork at Mouth	1.00	3	0.76
9. McElmo Cr nr CO-UT Line	1.00	3	0.75
10. Monument Cr at Pikeview	1.00	2	0.51

Table 1 (Continued). Ranking of Critical Water Quality Stations
by Pollutant Group

	<u>Exceed. Prob.</u>	<u>No. Mos. Exc'd</u>	<u>Avg. Conc. mg/l</u>
<u>Dissolved Solids</u>			
1. Arkansas R - La Junta to Coolidge, KS	1.00	10 [†]	3530 [†]
2. Cucharas R blw Walsenburg	1.00	6	5212
3. McElmo Cr nr CO-UT Line	1.00	12	2442
4. Purgatoire R nr Las Animas	1.00	6	3907
5. S Platte R - Kersey to Julesburg	1.00	12	1850 [†]
6. Yellow Cr nr White River	1.00	10	3660
7. Adobe Cr nr Fruita	1.00	4	2344
8. Bijou Cr nr Ft Morgan	1.00	9	1237
9. Mancos R nr CO-NM Line	1.00	10	1890
10. Piceance Cr at White River	1.00	12	1392
<u>Suspended Sediments</u>			
1. San Juan R at Shiprock, NM	1.00	12	5878
2. San Juan R at Four Corners	1.00	10	3049
3. Arkansas R nr Coolidge, KS	0.79	7	2084
4. McElmo Cr nr CO-UT Line	0.83	10	1411
5. White R nr CO-UT Line	0.88	5	1785
6. Little Snake R nr Lily	0.69	10	1126
7. White R abv Rangely	0.75	7	897
<u>Trace Elements</u>			
1. Animas R nr Silverton	0.58	5	(Cu)
2. Animas R nr Silverton	0.92	7	(Zn)
3. Clear Cr blw Idaho Springs	0.83	5	(Cu)
4. Clear Cr abv Golden	0.94	10	(Cu)
5. Clear Cr abv Golden	0.94	9	(Zn)
6. Arkansas R blw Leadville	1.00	6	(Zn)
7. Slate R blw Crested Butte	1.00	5	(Zn)

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEED CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OVS	EXCEEDENCE PROBABILITY
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
00300 DO														
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
ARKANSAS RIVER NEAR MALTZ CO.													13	0.08
ARKANSAS RIVER NEAR AVONDALE, CO													13	0.23
HUERFANO RIVER AT HIGHWAY RS-87							XX						6	0.17
GRANBY PUMP CANAL NEAR GRAND LAKE								X	XX				6	0.33
TOMICHT CREEK AT GUNNISON													5	0.0
S PLATTE @ 6TH AVE MOSDO NO.1							0						40	0.24
SOUTH PLATTE RIVER AT JULIUSBURG,													34	0.26
HORSETooth RESERVOIR NEAR FORT C													109	0.06
CORAL CREEK NEAR PLAINVIEW, CO.													12	0.08
31616 EFC COIT														
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S PLATTE @ 6TH AVE MOSDO NO.1							X						30	0.08
S PLATTE @ 6TH AVE MOSDO NO.1								X					50	0.12
SAND CR @ RUPERT DITCH MOSDO NO.1							0	XX					47	0.21
31615 EFC COIT														
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
ARKANSAS RIVER NEAR CANON CITY							XX						4	0.20
ARKANSAS RIVER BELOW CANON CITY													2	0.50
ARKANSAS RIVER NEAR NEPESTA													20	0.45
ARKANSAS @ CATTIN CANAL HDG1								XX					6	0.17
ARKANSAS RIVER NEAR LA JUNTA									XX				12	0.17
HUERFANO RIVER AT HIGHWAY RS-87									XX				6	0.50
CUCHARAS RIVER BELOW WALSenburg										XX			6	0.17
ST CHARLES ABOVE CONFLUENCE WITH N ST CH										XX			6	0.17
FOUNTAIN CREEK BELOW COLORADO SP							XX			XX			21	0.24
MCFARLAND CREEK WEST OF CORTEZ								X					5	0.20
NAVAJO RIVER NEAR CHAMA										XX			5	0.20
WHITE RIVER BELOW PICEANCE CRK													5	0.20
YAMPA RIVER AT MILLER													11	0.09
UNCOMPAGHRE RIVER AT DELTA													14	0.43
RIO GRANDE AT ALAMOSA													5	0.20
ARICKAREE RIVER NEAR WRAY, COLOR													5	0.40
SOUTH PLATTE AT HENDERSON													20	0.45
SOUTH PLATTE RIVER NEAR PLATTVILLE													3	0.33
SOUTH PLATTE NEAR KERSHY													21	0.82
S PLATTE BELOW FT. MORGAN													5	0.20
SOUTH PLATTE BELOW STEPLING													5	0.20
CACHE LA POUDRE NEAR FT. COLLINS													20	0.20
CACHE LA POUDRE NEAR GREENLEY													20	0.70
BIG THOMPSON RIVER BELOW ESTES PARK							XX			XX			5	0.20
BIG THOMPSON NEAR MOUTH								X	XX	XX			21	0.29
LITTLE THOMPSON NEAR MOUTH											X		6	0.17
LITTLE THOMPSON NEAR MELLIKEN								X	XX	XX			21	0.52
ST. VRAIN BELOW LONGMONT								XX			XX		13	0.62
ST. VRAIN NEAR MOUTH											XX		6	0.33

LEGEND: O= EXCEEDS CRITERIA BY LESS THAN 15%

X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO.	EXCEDENCE PROBABILITY
ROCKY MOUNTAIN RIVER AT RIDGEWOOD CO LINE	XX					XX	XX		XX	XX	XX	XX	20	0.60
LEFT HAND CREEK NEAR WATERSHED						XX		XX	XX				5	0.60
CLEAR CREEK BELOW IDAHO SPRINGS						XX		XX	XX				8	0.50
CLEAR CREEK ABOVE GOLDEN	XX	XX							X	XX			17	0.24
CLEAR CREEK AT WHITETOP RIDGE, COLORADO											XX		12	0.08
WEST FORK CLEAR CREEK BELOW EMPIRE											XX		3	0.33
ROCKY CREEK AT JEFFERSON-DENVER COUNTY LINE											XX		12	0.08
31625 FFC CO. I														

ARKANSAS RIVER NEAR COOLODGE, KA									X				12	0.08
FOUNTAIN CREEK NEAR COLORADO SPR									XX				9	0.11
FOUNTAIN CREEK AT COLORADO SPRINGS									0	XX			8	0.25
MONUMENT CREEK AT PIKEVIEW, CO.									XX				9	0.22
SAN JUAN RIVER AT SHIPROCK, NM													12	0.0
MCLEOD CREEK NEAR COLORADO-UTAH									X				12	0.08
PICFANCE CREEK AT WHITE RIVER, CO.													1	0.0
SPRING CREEK NEAR MONROSE, CO.									XX				9	0.11
SOUTH PLATTE RIVER AT JULIETSBURG,												X	7	0.14
00615 NO2-N														

ARKANSAS RIVER ABOVE PUEBLO, CO.											X		4	0.75
ARKANSAS RIVER NEAR PUEBLO, CO.											XX		11	0.27
ARKANSAS RIVER NEAR AVONDALE, CO											XX		14	0.93
ARKANSAS RIVER NEAR NEPESTA, CO.											XX		13	0.62
ARKANSAS RIVER NEAR NEPESTA	X	XX	X										9	0.56
ARKANSAS AT CATLIN CANAL, HDGT	X		X										3	0.67
ARKANSAS RIVER NEAR LA JUNTA	X		X										9	0.44
ARKANSAS RIVER AT LAS ANTHAS	XX												3	0.33
ARKANSAS RIVER AT LAMAR, COLORADO													4	0.50
ARKANSAS RIVER AT LAS ANTHAS	XY												3	0.33
FOUNTAIN CREEK BELOW COLORADO SP	XX	XX	XX	XX	XX	XX							9	1.00
FOUNTAIN CREEK NEAR PUEBLO, CO.												X	4	0.75
FOUNTAIN CREEK AT PUEBLO													3	0.33
COLORADO RIVER NEAR HOT SULFUR SPRINGS									XX				2	0.50
MANCOS RIVER 3 MILES NORTH OF STATE LINE	XX												2	0.50
PICFANCE CREEK AT WHITE RIVER, CO.													11	0.18
INDIAN CREEK NEAR SARGENTS													2	1.00
CRYSTAL RIVER NEAR MOUTH													2	0.50
BEAVER CREEK AT AVON													1	1.00
S. PLATTE 8 BATH AVE MDSDN NO. 1	X	0											50	0.32
SOUTH PLATTE AT HENDERSON	XX	X	XX	XX	XX	X							10	0.90
SOUTH PLATTE NEAR KERSHAW	XX	XX	XX	XX	XX	X							8	1.00
S. PLATTE BELOW FT. MORGAN													2	1.00
SOUTH PLATTE BELOW STERLING													2	0.50
CACHE LA POUDE NEAR FT. COLLINS	X	X				X							8	0.50
CACHE LA POUDE NEAR GREENLEY	XY	XX	XX	XX	XX	X							8	0.88
BIG THOMPSON NEAR MOUTH	X	X											8	0.38
ST VRAIN BELOW LONGMONT	0	XX	XX	XX									8	0.63

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
 X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
 XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEDENCE PROBABILITY
ST. VRAIN NEAR MOUTH	---	---	---	XX									3	0.67
ROCKY MOUNTAIN RIVER AT BLDG FIELD CO LINE				X	XX	XX							8	0.63
CLEAR CREEK NEAR MOUTH	0	0	X	XX									6	0.67
SAND CR & RIVER DITCH HEAD NO. 1	0	0											48	0.17
00600 TOTAL N														

SAN JUAN RIVER AT SHIPROCK, NM			X										12	0.08
MCLEOD CREEK NEAR COLORADO-UTAH					X								13	0.08
SAN MIGUEL RIVER BELOW UTAHAN, C	0										X		0	0.22
00620 NO3-N														

ARKANSAS RIVER AT LAS ANIMAS		XY											1	0.33
ARKANSAS RIVER AT LAS ANIMAS		XY											3	0.33
SOUTH PLATTE NEAR KERSHY	0												8	0.15
00630 NO2CNO3														

FOUNTAIN CREEK AT PUERLO						X							1	0.33
CROSS CREEK BR CON. WITH EAGLE									XX				7	0.14
WEST FORK CLEAR CREEK BELOW PINEPINE							X						2	0.50
00665 PHOS-TOT														

ARKANSAS RIVER NEAR CANON CITY					X		XX						5	0.40
ARKANSAS RIVER BELOW CANON CITY						XX	XX	XX					2	0.50
ARKANSAS RIVER AT PORTLAND, CO.										0			9	0.44
ARKANSAS RIVER NEAR PUERLO													5	0.20
ARKANSAS RIVER NEAR NEPESTA	XX	XX	XX	XX	X	XX	XX	XX	XX	XX	XX		21	1.00
ARKANSAS AT CATTIN CANAL HOGT	XX	XX				XX	XX	XX					5	0.80
ARKANSAS RIVER NEAR LA JUNTA	Y	XX	X	XX	XX	XX	X		XX				13	1.00
ARKANSAS RIVER AT LAS ANIMAS							XX						5	0.17
ARKANSAS RIVER AT LAMAR, COLOR							XX	X	X				16	0.50
ARKANSAS RIVER NEAR COOLDGE, KA							XX						11	0.09
ARKANSAS RIVER AT LAS ANIMAS								XX					6	0.17
PURGATORI RIVER NEAR SEGUNDO								XX					8	0.13
PURGATORI RIVER BELOW TRINIDAD													6	0.17
PURGATORI RIVER NEAR LAS ANIMAS													6	0.17
APTSHAPA RIVER NEAR AGUILERA								XX					6	0.17
HUHFANO RIVER AT HIGHWAY 85-87								XX		XX			6	0.50
CUCHARAS RIVER BELOW WALSenburg									XX				6	0.17
FOUNTAIN CREEK NEAR MANITOU													6	0.17
FOUNTAIN CREEK NEAR COLORADO SPR	X			XX									9	0.22
FOUNTAIN CREEK AT COLORADO SPRIN	XX	XX	XX	XX			X	XX					10	0.70
FOUNTAIN CREEK BELOW COLORADO SP	XX		21	1.00										
FOUNTAIN CREEK NEAR PINON, CO.													4	0.75
FOUNTAIN CREEK AT PUERLO	XX			XX	XX		X						6	0.83
MONUMENT CREEK AT PALMER LAKE, C													9	0.11
MONUMENT CREEK AT PIKEVIEW, CO.													10	0.80
	XX	XX	XX	XX	X	X								

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%

X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 45%

XX- EXCEEDS CRITERIA BY MORE THAN 45%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
COLORADO RIVER NEAR DOTSERO	---	---	---	---	---	X				XX	23		0.22	
COLORADO RIVER NEAR CAMEO							XX				5		0.20	
COLORADO RIVER NEAR LOMA						X	XX	X	X			22	0.41	
COLORADO RIVER BELOW COLORADO-UT			X	XX	XX		XX				X	9	0.56	
SAN JUAN RIVER BELOW PAGOSA										X		3	0.33	
SAN JUAN ABOVE NAVAJO RESERVOIR							XX					6	0.17	
SAN JUAN RIVER AT SHIPROCK, NM	XX	XX		XX	XX			XX	XX			12	0.50	
SAN JUAN R AT FOUR CORNERS, CO	XX		XX	XX		X	X		X	XX		12	0.58	
MCLEOD CREEK WEST OF CORTEZ	O							XX				5	0.60	
MCLEOD CREEK NEAR COLORADO-UTAH	X	XX	XX	XX	XX		X	XX		XX	X	13	0.77	
MANCOS RIVER AT MANCOS									X			5	0.20	
MANCOS RIVER 3 MILES NORTH OF STATE LINE	XX								X			5	0.40	
LA PLATA R NORTH OF LA PLATA						X						3	0.70	
LA PLATA RIVER AT COLORADO-NM LINE			XX	XX	XX							12	0.25	
ANTHAS RIVER NEAR SILVERTON	X		XX			X						14	0.21	
ANTHAS RIVER ABOVE DURANGO								XX				5	0.20	
LOS PINIOS RIVER NEAR LABOCO								XX				5	0.20	
PIEDRA RIVER NE OF ARROYOS, COLO						X		XX				6	0.33	
WHITE RIVER BELOW WEEKER, CO.	O						XX					10	0.20	
WHITE RIVER BELOW PICEANCE CRK.			XX	XX	XX	XX						6	0.17	
WHITE RIVER ABOVE RANGELY, CO.		O	XX	XX	XX	XX						11	0.36	
WHITE RIVER AT RANGELEY			XX	XX	XX	XX						6	0.17	
WHITE CREEK NEAR WHITE RIVER, CO.		XX	XX	XX	XX			XX	XX	X		3	0.13	
PIEFACE CREEK AT WHITE RIVER, CO.	XX		XX	XX	XX			XX	XX			11	0.64	
YAMPA ABOVE OAK CREEK CONFLUENCE			X	X	X		XX					6	0.17	
YAMPA RIVER AT MELNER		X	X	X								8	0.50	
YAMPA RIVER BELOW DIVERTON, NEA				XX	X							12	0.17	
YAMPA RIVER BELOW FALKLAND CREEK				XX	XX							12	0.17	
YAMPA RIVER BELOW CRATC, CO.,	X	X		XX	XX				X		O	12	0.58	
YAMPA RIVER NEAR MAYFIELD, CO.	O			XX	XX							12	0.25	
LITTLE SNAKE ABOVE LITTLE, CO			XX	XX	XX							2	0.40	
LITTLE SNAKE RIVER NEAR LITTLE, CO		XX	XX	XX	XX			X		XX		11	0.45	
WILLIAMS FORK AT MOUTH, NEAR HAM			XX	XX	X							12	0.25	
DOLORES RIVER ABOVE CONFLUENCE WITH SAN						XX		XX		X		7	0.41	
DOLORES RIVER AT GATEWAY							XX					5	0.20	
SAN MIGUEL RIVER AT NATURITA, CO					X							10	0.10	
SAN MIGUEL RIVER AT URAVAN, CO.						X						8	0.25	
SAN MIGUEL RIVER BELOW URAVAN, CO			O									9	0.11	
GUINNISON RIVER NEAR DELTA							XX					5	0.20	
GUINNISON RIVER NEAR GRAND JUNCTION		XX	XX				XX					9	0.33	
SPRING CREEK NEAR MONROSE, CO.		XX				XX						6	0.22	
UNCOMPANHGRE RIVER AT DELTA					X	XX	X		X	X		15	0.53	
SURFACE CREEK AT ORCHARD CITY							XX		X			6	0.33	
NORTH FORK GUINNISON RIVER NEAR S			X			X						7	0.29	
NORTH FORK GUINNISON RIVER NEAR BOWIE										XX		4	0.25	
N FK OF GUINNISON BELOW HOTCHKISS										XX		5	0.20	
TOMCAT CREEK AT GUINNISON	X							O				5	0.20	
ROAN CREEK NEAR DE BEQUE									X			4	0.50	
PAPACHUTE CREEK NEAR GRAND VALLE						XX						7	0.29	
ROARING FORK RIVER BELOW ASPEN							XX					6	0.17	

LEGEND: O - EXCEEDS CRITERIA BY LESS THAN 15%

X - EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX - EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2 TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEDENCE PROBABILITY
CRYSTAL RIVER AT REDSTONE	---	---	---	---	---	---	XX	---	---	---	4	---	0.25	
CRYSTAL RIVER NEAR MOUTH	---	---	---	---	---	---	XX	---	---	---	7	---	0.14	
EAGLE RIVER AT TOWN OF EDWARDS	XX	X	X	---	---	---	---	---	---	XX	23	---	0.30	
EAGLE RIVER AT GYPSUM	0	0	---	---	---	X	---	---	---	---	12	---	0.25	
BEAVER CREEK AT AVON	---	---	---	---	---	---	---	X	XX	---	8	---	0.25	
CORF CREEK AT MOUTH	XX	---	XX	---	---	---	---	---	---	X	6	---	0.50	
CROSS CREEK AT CON. WITH EAGLE	---	---	---	---	---	---	---	---	---	0	10	---	0.10	
BLUE RIVER ABOVE DILLON RES.	---	---	---	---	---	---	---	---	---	0	6	---	0.17	
SNAKE RIVER BELOW KEYSTONE	---	---	---	---	---	---	---	---	---	X	4	---	0.25	
NORTH PLATTE RIVER NEAR NORTHGATE, CO.	---	---	X	X	X	---	---	---	---	---	12	---	0.25	
MICHIGAN RIVER AT WALDEN	---	---	---	---	---	---	---	---	---	0	6	---	0.17	
RIO GRANDE RIVER NEAR DEL NORTE	---	---	---	---	---	---	XX	---	---	X	4	---	0.50	
RIO GRANDE AT ALMOSA	---	---	---	---	---	---	X	0	---	X	5	---	0.50	
RIO GRANDE NEAR TOROTOS, CO.	X	0	XX	X	X	X	X	---	---	---	11	---	0.64	
S FORK RIO GRANDE R AT TOWN OF SOUTH FOR	---	---	---	---	---	---	XX	---	---	X	5	---	0.40	
SAGUACHE CREEK NEAR SAGUACHE	XX	---	---	---	---	---	X	---	---	Y	5	---	0.80	
NORTH FORK REPUBLICAN RIVER NEAR LAIRD	0	---	---	---	---	---	---	0	---	XX	4	---	0.75	
ARTICKARFF RIVER NEAR WRAY, COLO	---	---	---	---	---	---	X	---	XX	---	5	---	0.40	
SOUTH PLATTE ABOVE LITTLETON,	---	---	---	---	---	---	---	XX	---	X	11	---	0.36	
S PLATTE # 60TH AVE MDSDO NO. 1	XY	XX	XX	XX	XX	XX	XX	---	---	---	39	---	1.00	
S PLATTE # 80TH AVE MDSDO NO. 1	XX	---	---	---	50	---	1.00							
SOUTH PLATTE AT HENDERSON	XX	20	---	1.00										
SOUTH PLATTE RIVER NEAR PLATTVILLE	---	---	---	---	---	---	XX	---	---	XX	3	---	1.00	
SOUTH PLATTE NEAR KERSEY	XX	21	---	1.00										
S. PLATTE BELOW FT. MORGAN	---	---	---	---	---	---	X	XX	---	XX	9	---	1.00	
SOUTH PLATTE RIVER AT BAIZAC	---	---	---	---	---	---	XX	XX	---	XX	4	---	1.00	
SOUTH PLATTE BELOW STERLING	---	---	XX	---	---	X	---	XX	---	XX	5	---	1.00	
SOUTH PLATTE RIVER AT JULESBURG	XY	XX	---	---	---	XX	XX	X	---	XX	12	---	0.67	
CACHE LA POUDRE R A MO OF CN. NR	---	---	---	---	---	---	XX	---	XX	---	11	---	0.18	
CACHE LA POUDRE RIVER AT FORT CO	---	---	---	---	---	---	XX	---	XX	---	9	---	0.22	
CACHE LA POUDRE RIVER BELOW FORT	---	---	X	---	---	XX	---	XX	---	---	9	---	0.56	
CACHE LA POUDRE RIVER AT TIMNATH	XY	XX	XX	XX	X	---	XX	X	XX	---	9	---	0.89	
CACHE LA POUDRE NEAR FT. COLLINS	XX	XX	XX	XX	X	---	0	XX	XX	XX	20	---	0.75	
CACHE LA POUDRE NEAR GREENLEY	XY	XX	20	---	0.95									
BIG THOMPSON RIVER BELOW ESTES PARK	XY	---	XX	---	---	---	XX	---	XX	XX	5	---	0.40	
BIG THOMPSON NEAR LOVELAND	---	---	X	---	X	---	---	---	---	XX	5	---	0.40	
BIG THOMPSON NEAR MOUTH	XY	XX	21	---	1.00									
LITTLE THOMPSON NEAR BERTHOUD	---	---	---	---	---	---	XX	---	---	X	6	---	0.33	
LITTLE THOMPSON NEAR MTLLIKEN	XY	XX	XX	XX	---	---	XX	---	---	---	7	---	0.95	
CARTER LAKE NEAR BERTHOUD, CO.	---	---	---	---	---	---	---	---	---	---	7	---	0.14	
ST. VRAIN CREEK AT LYONS, CO.	Y	---	---	---	---	---	---	---	---	0	11	---	0.18	
ST. VRAIN BELOW LONGMONT	XY	XX	12	---	1.00									
ST. VRAIN NEAR MOUTH	XY	XX	XX	---	X	---	XX	---	XX	---	6	---	1.00	
ROCKY MOUNTAIN CR. AT RIDGE FIELD CO LINE	XY	XX	20	---	1.00									
LEFT HAND CREEK NEAR MOUTH, AT LION	---	---	---	---	---	---	XX	---	0	---	8	---	0.25	
CLEAR CREEK BELOW IDAHO SPRINGS	---	---	---	---	---	---	XX	---	X	---	8	---	0.50	
CLEAR CREEK ABOVE GOLDEN	X	Y	---	---	---	---	XX	---	---	---	16	---	0.25	
CLEAR CREEK AT WHEAT RIDGE, COLO	---	---	---	---	---	---	XX	---	XX	---	12	---	0.33	
CLEAR CREEK NEAR MOUTH	XX	12	---	0.92										

LEGEND: O= EXCEEDS CRITERIA BY LESS THAN 15%

X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEDENCE PROBABILITY
NORTH FORK CLEAR CREEK BELOW BLACKHAWK										O			3	0.33
SAND CR # PURLIN DITCH MDSDD NO.1	XX	XX	XX	XX	XX								44	0.98
REAR CREEK ABOVE MORRISON	XX		XX							XX			6	0.47
REAR CREEK AT JEFFERSON-DENVER COUNTY L.I.	X	O		XX				XX				XX	12	0.67
00650 T P04														

ARKANSAS RIVER AT PORTLAND, CO.						XX							8	0.13
ARKANSAS RIVER NEAR WEEGSTA, CO.								X		XX			4	0.75
ARKANSAS RIVER NEAR COOLIDGE, KA							XX						3	0.33
FOUNTAIN CREEK NEAR COLORADO SPR						XX							2	0.50
FOUNTAIN CREEK AT COLORADO SPRIN					XX	XX							2	1.00
FOUNTAIN CREEK NEAR PINON, CO.					XX	XX							3	0.67
MONUMENT CREEK AT PIKEVIEW, CO.					XX	XX							2	1.00
COLORADO RIVER BELOW COLORADO-UT						XX	XX						3	0.67
SAN JUAN RIVER AT SHIPROCK, NM					XX	XX							4	0.67
SAN JUAN R AT FOUR CORNERS, CO.					XX		X						3	0.67
MCLEOD CREEK NEAR COLORADO-UTAH					XX	XX	O						2	1.00
LA PLATA RIVER AT COLORADO-NEW M					XX	XX							3	0.67
WHITE RIVER BELOW MEKKER, CO.							X	XX					2	1.00
WHITE RIVER ABOVE RANGELY, CO.						XX	XX	XX					3	1.00
PICFANCE CREEK AT WHITE RIVER, CO.					XX	XX							0	0.22
YAMPA RIVER BELOW DIVERTON, NEA							X						2	0.50
YAMPA RIVER BELOW ELKHORN CREEK					XX	XX							3	0.67
YAMPA RIVER BELOW CRAG, CO.					XX	XX							2	0.67
YAMPA RIVER NEAR MAYFIELD, CO.					XX	XX							3	0.67
LITTLE SNAKE RIVER NEAR LILY, CO					XX								1	1.00
WILLIAMS FORK AT MOUTH, NEAR HAM					XX	XX	X						3	1.00
SAN MIGUEL RIVER AT NATURITA, CO							X						2	0.50
SAN MIGUEL RIVER AT URAVAN, CO.						O							3	0.33
SAN MIGUEL RIVER BELOW URAVAN, C						X	X						2	0.67
GUNNISON RIVER NEAR GRAND JUNCTI						XX	XX						3	0.67
SPRING CREEK NEAR MONROSE, CO.						XX		XX					3	0.67
NORTH FORK GUNNISON RIVER NEAR S						X							2	0.50
PARACHUTE CREEK NEAR GRAND VALLE						XX	XX						4	0.50
PIO GRANDE NEAR TOROTOS, CO.						XX	X	X					2	1.00
SOUTH PLATTE RIVER AT JULIUSBURG,								XX	XX				2	1.00
CACHE LA POUDE RIVER AT TYNNATH								X					2	0.50
ST VRTN BELOW LONGMONT						XX							1	1.00
LEFT HAND CREEK AT MOUTH, AT LON							XX						3	0.13
00515 RESIDUE														

S PLATTE # 60TH AVF MDSDD NO.1	XX	XX	XX	XX	X								40	0.92
S PLATTE # 80TH AVF MDSDD NO.1	X	X	X	X	X								50	0.76
SAND CR # PURLIN DITCH MDSDD NO1	XX	XX	XX	XX	X	O							48	0.81
70300 RESIDUE														

ARKANSAS RIVER NEAR PUEBL0													8	0.20

LEGEND: O= EXCEEDS CRITERIA BY LESS THAN 15%
 X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 50%
 XX= EXCEEDS CRITERIA BY MORE THAN 50%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEED CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
ARKANSAS RIVER NEAR NEPESTA	Y	X	X	X	O				X	O	X	X	22	0.64
ARKANSAS AT CABELA CANAL, HDGT	XX		XX		X			O		X		S	6	0.83
ARKANSAS RIVER NEAR LA JUNTA	XY	XX	XX	XX	XX			XX		XX		13	0.85	
ARKANSAS RIVER AT LAS ANTHAS	XY		XX		XX			XX		XX		6	0.83	
ARKANSAS RIVER AT LAMAR, COLOR.				XX	XX	X	XX	XX	XX	XX	XX	14	1.00	
ARKANSAS RIVER NEAR COOLDGE, KA		XX	XX	XX	XX	XX	XX	XX		XX	XX	10	1.00	
ARKANSAS RIVER AT LAS ANTHAS	XY		XX		XX			XX		XX		6	0.83	
PURGATORI RIVER BELOW TRINIDAD	XY		XX		XX		XX	XX		XX		6	1.00	
PURGATORI RIVER NEAR LAS ANTHAS							XX		XX		3	1.00		
APISHAPA RIVER NEAR AGUILERA	Y		X		X			X				R	1.00	
HUERFANO RIVER AT HIGHWAY 55-87	XY		XX		X		O	X		X		6	1.00	
CUCHARAS RIVER BELOW WALTERBURG	XY		XX		XX		XX	X		XX		6	1.00	
FOUNTAIN CREEK BELOW COLORADO SP	O	O									X	23	0.22	
FOUNTAIN CREEK AT PUERCO	XY		XX		XX		XX	XX		XX		6	1.00	
COLORADO RIVER AT NEW CASTLE	X	X	X					O	X	X	X	23	0.61	
COLORADO RIVER NEAR CAJON	Y		X					X		X		5	0.80	
COLORADO RIVER NEAR LOMA	Y	O	X	X				X	XX	XX	X	21	0.76	
COLORADO RIVER BELOW COLORADO-UT	Y	O	X	O				X			X	9	0.67	
SAN JUAN RIVER AT SHIPROCK, NM	O						O	O				12	0.25	
SAN JUAN R AT FOUR CORERS, CO	Y	X						Y	X	X		12	0.42	
MCLEOD CREEK WEST OF CORTEZ	XY		XX		XX		XX	XX	XX	XX	XX	5	1.00	
MCLEOD CREEK NEAR COLORADO-UTAH	XY	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	13	1.00	
MANCOS RIVER 3 MILES NORTH OF STATE LINE	XY		XX		X			X	XX			5	1.00	
LA PLATA R NORTH OF LA PLATA			XX				O	XX		XX		5	0.80	
LA PLATA RIVER AT COLORADO-NEW M	XY	XX	XX				X	X	XX	XX	XX	12	0.75	
ANIMAS RIVER NEAR SILVERTON	Y		O									5	0.15	
FLORIDA AT CON. WITH ANIMAS			O									5	0.20	
GREEN RIVER IN CO., UTAH LINP.	O											6	0.17	
WHITE RIVER BELOW PINECONE CRK.												6	0.33	
WHITE RIVER AT RANGELEY								O				6	0.33	
WHITE R. N.R. CO. STATE LINP. UT.								O				2	0.50	
YAMPA BELOW LITTLE SNAKE RIVER												6	0.17	
LITTLE SNAKE RIVER NEAR LITY, CO												11	0.18	
DOLORES RIVER ABOVE CONFLUENCE WITH SAN			XX					XX	XX	XX		7	0.57	
DOLORES RIVER AT GATEWAY			XX				XX	XX	XX			5	0.80	
SAN MIGUEL RIVER AT NATURITA, CO							X	O	O		10	0.40		
SAN MIGUEL RIVER AT URAVAN, CO	Y	X		X								7	0.43	
SAN MIGUEL RIVER BELOW URAVAN, CO	XY	XX		X								6	0.70	
CUNNINGSON SOUTHEAST OF GRD JUNCT			O									6	0.17	
CUNNINGSON RIVER NEAR GRAND JUNCT			O				X	X	XX			6	0.44	
SPRING CREEK NEAR MONTROSE, CO.	XY		XX			X	X	X	XX			9	0.67	
UNCOMPANACHE RIVER AT RDGWAY			O			D	X	XX	XX	XX	XX	5	0.20	
UNCOMPANACHE RIVER AT DELTA			O			D	X	XX	XX	XX	XX	15	0.93	
SURFACE CREEK AT ORCHARD CITY												6	0.17	
N FK OF CUNNINGSON BELOW HOTCHKISS	Y								XX			5	0.60	
ROAN CREEK NEAR DE BROWNE								X		XX		4	0.75	
ROARING FORK AT MOUTH												16	0.0	
FAILE RIVER AT GYPSUM	Y	X	X					X		O		12	0.75	
CROSS CREEK AT CON. WITH EAGLE			X							O		10	0.30	
BLUFF RIVER ABOVE OTILLION RES.			X							O		6	0.17	

LEGEND: O = EXCEEDS CRITERIA BY LESS THAN 15%

X = EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX = EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEED CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEDENCE PROBABILITY
NORTH FORK REPUBLICAN RIVER NEAR LAIRD			XX								X		4	0.50
ARCKAREE RIVER NEAR WRAY, COLO				XY			XX				XX		5	0.60
SOUTH PLATTE AT HENDERSON	X	O	X	X				O	X	X	X	X	20	0.75
SOUTH PLATTE RIVER NEAR PLATTVILLE									X		X		3	0.67
SOUTH PLATTE NEAR KERSEY	XY	XX	XX	XX	O		XX	XX	XX	XX	XX	XX	20	0.85
S. PLATTE BELOW FT. MORGAN				XY		XX	XX		XX		XY		5	1.00
SOUTH PLATTE RIVER AT BAIKAC				XY		XX	XX				XX		5	0.80
SOUTH PLATTE BELOW STERLING				XX		XX	XX		XX		XX		5	1.00
SOUTH PLATTE RIVER AT JULESBURG	XY	XX	XX	XX		X	XX	XX	XX	XX	XX	XX	12	1.00
CACHE LA Poudre NEAR FT. COLLINS	XY	XX	XX	XX			Y	XX	XX	XX	O	XX	20	0.75
CACHE LA Poudre NEAR GREELEY	XY	XX	XX	XX	O		XX	XX	XX	XX	XX	XX	20	0.90
RIO THOMPSON NEAR MOUTH	XY	XX	XX	XX	O		XX	XX	XX	XX	XX	XX	21	0.86
LITTLE THOMPSON NEAR RIVERHEAD	XY	XX		XX	O		XX	XX	XX	XX	XX	XX	6	0.83
LITTLE THOMPSON NEAR HILLYARD	XY	XX	XX	XX	O		XX	XX	XX	XX	XX	XX	10	0.95
ST. VRAIN BELOW LONGMONT		X	X	O	X		XX	XX	XX	XX	XX	XX	13	0.77
ST. VRAIN NEAR MOUTH	X						O		X		X		6	0.83
LEFT HAND CREEK NEAR MOUTH	XY				X				X		XX		6	0.83
CLEAR CREEK NEAR MOUTH	X	X	X	X					O	X			12	0.67
BEAR CREEK AT JEFFERSON-DENVER COUNTY, CO	O	O	X										12	0.42

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ARKANSAS RIVER NEAR PUEBLO, CO													X	5	0.20
ARKANSAS RIVER NEAR AVONDALE, CO					O								X	7	0.29
ARKANSAS RIVER NEAR MESAQUA, CO					X						O		X	7	0.43
ARKANSAS RIVER AT J.A. JUNTA, CO					XY								1	1.00	
ARKANSAS RIVER AT LAS ANIMAS, CO					XX								1	1.00	
ARKANSAS RIVER BELOW JOHN MARTIN	XY	XX	XX	XX	XX	XX	X	X	XX				9	1.00	
ARKANSAS RIVER NEAR COOLDGE, KA	XX	10	1.00												
FOUNTAIN CREEK NEAR PINON, CO							X						2	1.00	
LITTLE FOUNTAIN CREEK NEAR FOUNT					O	X							5	0.40	
COLORADO RIVER NEAR GLENWOOD SPR													11	0.09	
COLORADO RIVER NEAR BEQUE, CO	X		X										7	0.43	
COLORADO RIVER NEAR CAMERO, CO			X										8	0.83	
COLORADO RIVER BELOW COLORADO-UT	XY	O	X	O				X			X		9	0.67	
SAN JUAN RIVER AT SHIPROCK, NM	O	O	O				O						12	0.42	
SAN JUAN RIVER AT FOUR CORNERS, CO	X	X	X						X	X	X		12	0.33	
MCLEOD CREEK NEAR COLORADO-UTAH	XY	XX	12	1.00											
MANCOS RIVER NEAR CORTEZ, CO	XY	XX	XX										5	0.60	
LA PLATA RIVER AT COLORADO-NEW M	XY	XX	XX				X	X	XX	XX	XX	XX	12	0.75	
WHITE RIVER ABOVE RANGELY, CO	O		X				O			X			9	0.44	
WHITE R. NR. COLO. STATE LINE, UT.										O	O		6	0.33	
YELLOW CREEK NEAR WHITE RIVER, CO													4	1.00	
PIGFANCE CREEK AT WHITE RIVER, CO	XY	XX	XX	X	X	XX	12	1.00							
LITTLE SNAKE RIVER NEAR ILLY, CO									X	X			11	0.18	
WILSON CREEK NEAR AXTEL, CO							XX	X	XX	XX	XX	XX	8	1.00	
FOOTRI. CREEK AT MOUTH, NEAR OAK							X		XX	XX	XX	XX	7	0.71	
SAN MIGUEL RIVER AT NATURITA, CO										O	O		10	0.30	
SAN MIGUEL RIVER AT URAVAN, CO.													2	0.50	
SAN MIGUEL RIVER BELOW URAVAN, CO							XX			XX			3	0.67	

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%

X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEED CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
SALT CREEK NEAR MACK, CO.	---	---	XX	4	1.00									
EAST SALT CREEK NEAR MACK, CO.	---	---	XX	XX	X	XX	4	1.00						
WEST SALT CREEK NEAR MACK, CO.	Y	XX	3	1.00										
ADORE CREEK NEAR FRUITA, CO.	---	---	XX	4	1.00									
GUNNISON RIVER NEAR GRAND JUNCTI	---	---	O	XX	10	0.50								
SPRING CREEK NEAR MONTROSE, CO.	XY	XX	8	0.63										
UNCOMPAGNE RIVER AT DELTA, CO.	XY	XX	O	XX	4	1.00								
ROAN CREEK NEAR DE BEQUE, CO.	XY	XX	X	O	X	X	XX	XX	XX	XX	O	X	8	0.80
PARACHUTE CREEK NEAR GRAND VALLEY	---	---	O	XX	O	XX	7	0.86						
PARACHUTE CREEK AT GRAND VALLEY	Y	XX	XX	X	XX	11	0.45							
PLATE RIVER AT GYPSUM, CO.	Y	XX	12	0.92										
SOUTH PLATTE RIVER NEAR WEDONA,	XY	XX	12	0.92										
SOUTH PLATTE RIVER AT JULIUSBURG,	XY	XX	12	1.00										
PLATO CREEK NEAR FT. MORGAN, CO.	XY	XX	0	1.00										
CACHE LA POUDRE RIVER BELOW FORT	---	---	---	---	---	---	---	---	---	---	---	---	12	0.08
CACHE LA POUDRE RIVER AT THINATH	XY	XX	6	0.78										
CACHE LA POUDRE RIVER NEAR GREEN	XY	XX	12	0.92										
RIO THOMPSON RIVER AT MOUTH, NEAR LA SAL	XY	XX	12	0.92										
ST. VRAIN CREEK AT MOUTH, NEAR P	Y	XX	12	0.83										
LEFT HAND CREEK AT MOUTH, AT LONG	XY	XX	0	0.67										

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ARKANSAS RIVER NEAR PUEBLO	XY	XX	5	0.20										
ARKANSAS RIVER NEAR PUEBLO, CO.	---	---	---	---	---	---	---	---	---	---	---	---	11	0.09
ARKANSAS RIVER NEAR AVONDALE, CO.	---	---	---	---	---	---	---	---	---	---	---	---	15	0.60
ARKANSAS RIVER NEAR HEPPESTA, CO.	---	---	---	---	---	---	---	---	---	---	---	---	15	0.67
ARKANSAS RIVER NEAR NEPESTA	Y	X	X	X	X	O	O	O	O	O	O	O	22	0.50
ARKANSAS AT CATLIN CANAL, HDGT	Y	XX	5	0.67										
ARKANSAS RIVER NEAR LA JUNTA	XY	XX	13	0.85										
ARKANSAS RIVER AT LA JUNTA, CO.	---	---	---	---	---	---	---	---	---	---	---	---	1	1.00
ARKANSAS RIVER AT LAS ANTHAS	XY	XX	6	0.83										
ARKANSAS RIVER AT LAS ANTHAS, CO	XY	XX	XX	XX	XX	XX	O	XX	XX	XX	XX	XX	15	0.93
ARKANSAS RIVER BELOW JOHN MARTIN	XY	XX	0	1.00										
ARKANSAS RIVER AT LAMAR, COLOR.	XY	XX	XX	XX	XX	XX	X	X	X	X	X	X	16	0.94
ARKANSAS RIVER NEAR COOLDGE, KA	XY	XX	21	1.00										
ARKANSAS RIVER AT LAS ANTHAS	XY	XX	6	0.83										
PURGATORI RIVER BELOW TRINIDAD	XY	XX	6	1.00										
PURGATORI RIVER NEAR LAS ANTHAS	XY	XX	6	1.00										
APTSHAPA RIVER NEAR AGUILERA	O	X	X	X	X	X	X	X	X	X	X	X	6	0.83
HUERFANO RIVER AT HIGHWAY 85-87	Y	XX	6	1.00										
CUCHARAS RIVER BELOW WALSenburg	XY	XX	6	1.00										
FOUNTAIN CREEK AT COLORADO SPRIN	O	X	XX	O	X	X	X	X	X	X	X	X	0	0.15
FOUNTAIN CREEK BELOW COLORADO SP	O	X	XX	O	X	X	X	X	X	X	X	X	0	0.38
FOUNTAIN CREEK NEAR PINON, CO.	---	---	---	O	X	X	X	X	X	X	X	X	5	1.00
FOUNTAIN CREEK AT PUERTO	XY	XX	6	1.00										
LITTLE FOUNTAIN CREEK NEAR FOUNT	---	---	---	---	---	---	X	XX	XX	XX	XX	XX	12	0.50
COLORADO RIVER NEAR GLENWOOD SPR	O	X	X	O	X	X	X	X	X	X	X	X	41	0.05
COLORADO RIVER AT NEW CASTLE	O	X	X	O	O	O	O	O	O	O	O	O	23	0.97
COLORADO RIVER NEAR DE BEQUE, CO	Y	XX	XX	O	X	X	X	X	X	X	X	X	8	0.38

LEGENDS: O = EXCEEDS CRITERIA BY LESS THAN 15%
 XY = EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 50%
 XX = EXCEEDS CRITERIA BY MORE THAN 50%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEDENCE PROBABILITY
COLORADO RIVER NEAR CAYCO, CO.				X				X		X	X	X	9	0.56
COLORADO RIVER NEAR CAMPO			X		X				X				5	0.80
COLORADO RIVER NEAR LOMA			X	X					X	X	X		22	0.73
COLORADO RIVER BELOW COLORADO-UT			X	O	O				X				8	0.50
SAN JUAN R AT FOUR CORNERS, CO	O	O							O	O	X		12	0.42
MCPIANO CREEK WEST OF CORTEZ	XX		XX		XX			XX	XX	XX			5	1.00
MCPIANO CREEK NEAR COLORADO-UTAH	XX	13	1.00											
MANCOS RIVER NEAR CORTEZ, CO.	XX	XX	X										5	0.60
MANCOS RIVER 3 MILES NORTH OF STATE LINE	XY			O				X	XX				5	1.00
LA PLATA R NORTH OF LA PLATA			XY				X	X					5	0.80
LA PLATA RIVER AT COLORADO-NEW M	XY	XX	X				O	X	X	X	X	XX	12	0.75
GREEN RIVER BR CO., UTAH LTNF							O						6	0.17
WHITE RIVER BELOW PICFANCE CRK.							O						6	0.17
WHITE RIVER ABOVE RANGELEY, CO.							O					O	11	0.18
WHITE RIVER AT RANGELEY							O						6	0.17
YELLOW CREEK NEAR WHITF RIVER, CO	XX	XY	XX			10	1.00							
PICFANCE CREEK AT WHITF RIVER, CO.	XY	XX	XX	X	X	XX	17	1.00						
LITTLE SNAKE RIVER NEAR LILLY, CO									X	X			11	0.18
HUTSON CREEK NEAR AXTAL, CO.							O	X	XX		XX	XX	8	1.00
FOTDEL CREEK AT YOUTH, NEAR OAK			X				XX	XX			X	X	7	0.71
DOLORES RIVER ABOVE CONFLUENCE WITH SAN								XY	XX	XX			7	0.57
DOLORES RIVER AT GATEWAY								XX	XX	XX			5	0.80
SAN MIGUEL RIVER AT NATURITA, CO											X		11	0.18
SAN MIGUEL RIVER AT URAVAN, CO.	O	X											8	0.50
SAN MIGUEL RIVER BELOW URAVAN, CO	X	X	O					X		XX	X		11	0.64
SALT CREEK NEAR MACK, CO.							XX	XX	XX			XX	4	1.00
EAST SALT CREEK NEAR MACK, CO.							XX	X	XX			XX	4	1.00
WEST SALT CREEK NEAR MACK, CO.	Y		X	XX					O	O	X		7	1.00
ADDAF CREEK NEAR FRUITA, CO.							XX	XX	X			XX	4	1.00
GUNNISON RIVER NEAR GRAND JUNCTI									X	X	X		10	0.40
SPRING CREEK NEAR MONTROSE, CO.	Y		X					O					9	0.56
UNCOMPAGRE RIVER AT RIDGEWAY							O						5	0.20
UNCOMPAGRE RIVER AT DELTA							O	X	XX	XX	XX	XX	15	0.87
UNCOMPAGRE RIVER AT DELTA, CO.	XY		XX	X	X	XX	XX						11	0.82
SURFACE CREEK AT ORCHARD CITY							X						6	0.17
N Fk OF GUNNISON BELOW HOTCHKISS							O						5	0.60
ROAN CREEK NEAR DE BENOIF, CO.							O	X	XX	XX	X	X	11	0.82
ROAN CREEK NEAR DE BENOIF							O	XX		XX	X		4	1.00
PARACHUTE CREEK NEAR GRAND VALLEY											X		8	0.25
PARACHUTE CREEK AT GRAND VALLEY											X		7	0.71
FACILE RIVER AT GYPSUM	O	X	X					X	X				12	0.58
FACILE RIVER AT GYPSUM, CO.	X		O							O			41	0.78
NORTH FORK REPUBLICAN RIVER NEAR LAIRD											X		4	0.25
ARTCKARFF RIVER NEAR WRAY, COLOR											XX		5	0.60
SOUTH PLATTE AT HENDERSON	Y	X	X	X	X			O	O	X	X	X	21	0.81
SOUTH PLATTE RIVER NEAR PLATTVILLE								O					2	1.00
SOUTH PLATTE NEAR KERSPEY	XX	XX	XX	X	X			XX	X	XX	X	X	19	0.89
SOUTH PLATTE RIVER NEAR WELDONA	XX	XX	XX	X	O			X	X	XX	X	XX	12	0.92
S. PLATTE BELOW FT. MORCAN								XX	XX	X			4	1.00
SOUTH PLATTE RIVER AT BALZAC								XX	XX	X		XX	5	1.00

LEGEND: O - EXCEEDS CRITERIA BY LESS THAN 15%
 X - EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 45%
 XX - EXCEEDS CRITERIA BY MORE THAN 45%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
SOUTH PLATTE BELOW STERLING	---	---	XX	5	1.00									
SOUTH PLATTE RIVER AT MILESBURG,	XY	XX	XX	XX	X	O	X	XX	XX	XX	X	XX	14	1.00
BUJOU CREEK NEAR FT. MORGAN, CO.	XX	XX	XX	XX	X	XX	XX	X	XX	XX	XX	XX	9	1.00
CACHE LA POURRE RIVER BELOW FORT	---	---	---	---	---	---	---	---	---	---	---	---	14	0.07
CACHE LA POURRE RIVER AT TWINNATH	XY	XX	XX	XX	XX	XX	XX	X	XX	X	X	XX	11	0.82
CACHE LA POURRE NEAR FT. COLLINS	XY	XX	XX	XX	XX	XX	X	XX	XX	X	X	XX	19	0.74
CACHE LA POURRE RIVER NEAR GREEN	XY	XX	XX	XX	XX	O	XX	X	XX	XX	X	XX	12	0.97
CACHE LA POURRE NEAR GREENLEY	XY	XX	XX	XX	XX	X	XX	XX	XX	X	X	XX	19	0.89
BIG THOMPSON RIVER AT MOUTH, NEAR LA SAL	XY	XX	XX	XX	XX	XX	XX	X	XX	XX	XX	XX	12	0.92
BIG THOMPSON NEAR MOUTH	XY	XX	XX	XX	XX	XX	XX	X	XX	XX	Y	XX	21	0.86
LITTLE THOMPSON NEAR BERTHOUD	XY	XX	6	0.83										
LITTLE THOMPSON NEAR MILLIKEN	XY	XX	XX	XX	XX	O	XX	XX	XX	XX	XX	XX	21	0.90
ST. VRAIN BELOW LONGMONT	---	---	X	X	X	X	---	XX	X	X	X	X	13	0.89
ST. VRAIN NEAR MOUTH	Y	---	---	---	---	---	---	O	---	X	X	X	6	0.67
ST. VRAIN CREEK AT MOUTH, NEAR P	Y	X	X	X	X	---	---	X	X	XX	X	X	12	0.83
BOULDER CR. AT BLDG FIELD CO LINE	---	---	O	---	---	---	---	---	---	---	---	---	20	0.10
LEFT HAND CREEK NEAR NTWOT	Y	---	X	---	X	---	O	---	O	---	Y	---	6	1.00
LEFT HAND CREEK AT MOUTH, AT LON	Y	XX	---	XX	X	---	X	---	X	---	---	---	9	0.67
CLEAR CREEK NEAR MOUTH	Y	X	X	X	X	---	---	---	---	---	---	---	12	0.50
BEAR CREEK AT JEFFERSON-DENVER, COUNTY LI	O	O	X	---	---	---	---	---	---	---	---	---	12	0.33
TURKEY CREEK NEAR MORRISON, CO.	XX	---	---	---	---	---	---	---	---	---	---	---	5	0.80

00070 TURB

NORTH PLATTE RIVER NEAR NORTHGATE, CO.

S PLATTE # 60TH AVE MDSDD NO. 1

S PLATTE # 80TH AVE MDSDD NO. 1

SAND CR # RUPLTN DITCH MDSDD NO. 1

00530 RESIDUE

ARKANSAS RIVER AT PORTLAND, CO.

ARKANSAS RIVER NEAR AVONDALE, CO.

ARKANSAS RIVER NEAR NEPESTA, CO.

ARKANSAS RIVER NEAR NEPESTA

ARKANSAS AT CATALIN CANAL HDGT

ARKANSAS RIVER NEAR LA JUNTA

ARKANSAS RIVER AT LAS ANIMAS

ARKANSAS RIVER AT LAMAR, COLOR.

ARKANSAS RIVER AT LAS ANIMAS

PURGATOIRE RIVER NEAR SEGUNDO

PURGATOIRE RIVER BELOW TRINIDAD

PURGATOIRE RIVER NEAR LAS ANIMAS

HUFRENO RIVER AT HIGHWAY RS-87

CUCHARAS RIVER BELOW WALSenburg

FOUNTAIN CREEK NEAR MANITOU

FOUNTAIN CREEK NEAR COLORADO SPR

FOUNTAIN CREEK AT COLORADO SPRNG

FOUNTAIN CREEK BELOW COLORADO SP

FOUNTAIN CREEK NEAR PIONEER, CO.

LEGEND: O= EXCEEDS CRITERIA BY LESS THAN 15%

X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX= EXCEEDS CRITERIA BY MORE THAN 85%

4

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
FOUNTAIN CREEK AT PUERCO			XX		X						XX		6	0.50
LITTLE FOUNTAIN CREEK NEAR FOUNT					XX	X	XX						4	0.75
MONUMENT CREEK AT PIKEVIEW, CO.			XX	XX	X	XX		XX				X	10	0.70
COLORADO RIVER NEAR DOTSBO						XX							23	0.13
COLORADO RIVER AT NEW CASTLE						XX	X						23	0.17
COLORADO RIVER NEAR CANCO					X								5	0.20
COLORADO RIVER NEAR LOMA			X	XX	XX	XX	X	X					22	0.50
SAN JUAN ABOVE NAVajo RESERVOIR					XX								6	0.17
SAN JUAN RIVER AT SHIPROCK, NM	XY		XX	XX	XX	X	0	0	0	XX	XX		11	0.82
MCPIERSON CREEK WEST OF COFFEE?	X		XX		XX			XX					5	0.80
MANCOS RIVER AT MANCOS						XX							5	0.20
MANCOS RIVER 3 MILES NORTH OF STATE LINE	XX		XX										5	0.60
LA PLATA R NORTH OF LA PLATA					XX								5	0.20
ANTMAS RIVER NEAR BONNAD, CO.					XX								5	0.20
FLORIDA AT CON. WITH ANIMAS			XX										5	0.20
LOS PINOS RIVER NEAR LAROCHE			XX										5	0.20
PIEDRA RIVER NEAR ARBOLES, COLOR			XX										6	0.17
NAVAJO RIVER NEAR CHRONO					X								5	0.20
WHITE RIVER BELOW PINEFENCE CRK			XX		XX								6	0.33
WHITE RIVER AT RANGELEY			XX		XX		0						6	0.50
YAMPA RIVER AT MELNER					XX								10	0.10
YAMPA BELOW LITTLE SNAKE RIVER			XX		XX								6	0.33
LITTLE SNAKE ABOVE LTDY			XX										2	0.50
DOLORES RIVER ABOVE CONFLUENCE WITH SAN			XX		XX	XX							6	0.50
DOLORES RIVER AT GATEWAY			XX										4	0.25
SAN MIGUEL NEAR NORWOOD													5	0.00
GUNNISON RIVER NEAR DELTA					0								5	0.20
GUNNISON SOUTHEAST OF CRD JUNCT		XX	XX										7	0.43
UNCOMPAGNE RIVER AT DELTA					XX	XX	XX	XX	X				14	0.71
NORTH FORK GUNNISON RIVER NEAR BOWIE					X								4	0.25
N FORK OF GUNNISON BELOW HOTCHKISS					X								4	0.25
ROAN CREEK NEAR DE BIQUE					XX		XX	0	X				4	1.00
ROARING FORK AT MOUTH					XX	X							16	0.19
CRYSTAL RIVER AT REDSTONE					XX								4	0.25
CRYSTAL RIVER NEAR MOUTH					XX								7	0.14
EAGLE RIVER AT GYPSUM			X	XX	X								12	0.33
REAVIER CREEK AT AVON								X					8	0.13
SNAKE RIVER BELOW KEYSTONE									X				4	0.25
NORTH FORK REPUBLICAN RIVER NEAR LAIRD			0										4	0.25
ARTICKAREE RIVER NEAR WRAY, COLOR					0	0	XX		XX				5	0.40
SOUTH PLATTE AT HENDERSON					0	0	XX						21	0.14
SOUTH PLATTE RIVER NEAR PLATTVILLE							0						3	0.33
SOUTH PLATTE NEAR KERSY						XX	XX	Y	X				20	0.75
S. PLATTE BELOW FT. MORGAN													5	0.00
SOUTH PLATTE RIVER AT RAZZAC							X		0				5	0.40
CACHE LA POUDRE NEAR GREENLEY						XX	X	X	X				20	0.30
BIG THOMPSON NEAR MOUTH						XX	XX	XX	XX				21	0.43
LITTLE THOMPSON NEAR BERTHOUD						X							6	0.17
LITTLE THOMPSON NEAR MELNIKEN						XX	XX	XX	XX	X			21	0.57
ST VRAIN BELOW LONGMONT										XX			13	0.08

LEGEND: 0 = EXCEEDS CRITERIA BY LESS THAN 15%

X = EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX = EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	NO. DAYS	EXCEEDENCE PROBABILITY
ST. VRAIN NEAR MOUTH						XX		X		X			6	0.50
BOULDER CR. AT BLDR WFLD CO LTNE						X	X		XX				20	0.15
CLEAR CREEK NEAR MOUTH					X								12	0.08
NEAR CREEK AT JEFFERSON-DENVER COUNTY LT							XX						12	0.08
70299 RES-SUSP														

SAN MIGUEL RIVER AT URAVAN, CO.			X				XX						6	0.33
SAN MIGUEL RIVER BELOW URAVAN, CO.							0						6	0.17
80154 SUSP SED														

ARKANSAS RIVER AT PORTLAND, CO.				XX			XX	XX	X				21	0.29
ARKANSAS RIVER NEAR PORTLAND, CO		0	XX				XX	XX	XX	X			17	0.59
ARKANSAS RIVER NEAR COOLIDGE, KA		XX	XX		XX	X	XX	XX	0				14	0.79
COLORADO RIVER NEAR DE BEQUE, CO				XX			XX	XX					5	0.60
SAN JUAN RIVER AT SHIPROCK, NM	XX	XX	XX	XX	XX	19	1.00							
SAN JUAN R AT FOUR CORNERS, CO	XY	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	16	1.00	
MCLEOD CREEK NEAR COLORADO-UTAH	0		XX	XX	XX	XX	XX	XX	XX	XX	XX	12	0.83	
LA PLATA RIVER AT COLORADO-NM M	XX	XX	XX	XX	XX	12	0.42							
WHITE RIVER BELOW MEKKER, CO.					XX	XX						4	0.50	
WHITE RIVER ABOVE RANGELY, CO.					XX	XX	XX	XX	X	X		28	0.75	
WHITE R. NR. COLOR. STATE LTNE. UT.	X						XX	XX	XX	XX			8	0.88
YAMPA RIVER BELOW DIVERSION, NFA							XX	X					11	0.18
YAMPA RIVER BELOW CRAIG, CO.							XX	XX	X				11	0.27
YAMPA RIVER NEAR MAYFIELD, CO.							XX	XX	X				9	0.44
LITTLE SNAKE RIVER NEAR LITTL. CO	XX	XX	XX	XX	XX	X	X	X	X	XX	XX	58	0.69	
WILLIAMS FORK AT MOUTH, NEAR HAN	YY		XX	XX	XX							11	0.36	
FOTEL CREEK AT MOUTH, NEAR OAK					X							1	1.00	
SAN MIGUEL RIVER AT NATURITA, CO					XX		X	X				10	0.30	
GUNNISON RIVER NEAR GRAND JUNCTION					XX							8	0.73	
SPRING CREEK NEAR MONROSE, CO.					XX	XX	XX	XX				9	0.44	
NORTH FORK GUNNISON RIVER NEAR S					XX	XX			XX			9	0.33	
PARACHUTE CREEK NEAR GRAND VALLEY					XX	XX						9	0.33	
PARACHUTE CREEK AT GRAND VALLEY,					XX							1	1.00	
LITTLE GRIZZLY CREEK ABOVE HERRO							X	XX				8	0.25	
RIO GRANDE NEAR LORATO, CO.							XX	X				10	0.50	
SOUTH PLATTE RIVER AT JULIETSBURG.	XX	XX	0				XX	X				7	0.86	
LEFT HAND CREEK AT MOUTH, AT LON	X	XX					X	XX	X			9	0.67	
00940 CHLORIDE														

YELLOW CREEK NEAR WHITE RIVER, CO									0			10	0.10	
DOLORES RIVER ABOVE CONFLUENCE WITH SAN									XX	XX	XX	7	0.57	
DOLORES RIVER AT GATEWAY									XX	XX	XX	5	0.60	
EAST SALT CREEK NEAR MACK, CO.											0	4	0.25	
00945 SULFATE												5	0.20	

ARKANSAS RIVER NEAR PUERTO							XY							

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%

X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	MIL. OBS	EXCEDENCE PROBABILITY	
ARKANSAS RTVFR NEAR PUERTO, CO.													XX	7	0.14
ARKANSAS RTVFR NEAR BONDALE, CO					X	X							X	9	0.44
ARKANSAS RTVFR NEAR NEPESTA, CO.					X	X							X	9	0.56
ARKANSAS RTVFR NEAR NEPESTA	XX		X		X								X	6	0.67
ARKANSAS AT CATALIN CANAL, HDGT	XX		XX		X									5	0.80
ARKANSAS RTVFR NEAR LA JUNTA	XX		XX		XX								XX	5	0.83
ARKANSAS RTVFR AT LA JUNTA, CO.														1	1.00
ARKANSAS RTVFR AT LAS ANTHAS	XX		XX		XX								XX	6	0.83
ARKANSAS RTVFR AT LAS ANTHAS, CO														1	1.00
ARKANSAS RTVFR BELOW JOHN MARTIN	XX	XX	XX	XX	XX								XX	9	1.00
ARKANSAS RTVFR AT LAMAR, COLOR.														4	1.00
ARKANSAS RTVFR NEAR COOLDGE, KA													XX	11	1.00
ARKANSAS RTVFR AT LAS ANTHAS	XX	XX	XX	XX	XX	XX	XX	6	0.83						
PURGATORI RIVER RTVFR BELOW TRINIDAD	XX	XX	XX	XX	XX	XX	XX	6	1.00						
PURGATORI RIVER RTVFR NEAR LAS ANTHAS													XX	4	1.00
APTSHAPA RTVFR NEAR AGUILERA	0	0												5	0.50
HUERFANO RTVFR AT HIGHWAY 85-87	XX	XX			X			X		XX			X	6	1.00
CUCHARAS RTVFR BELOW WATERSBURG	XX	XX			XX			XX		X			XX	6	1.00
FOUNTAIN CREEK BELOW COLORADO SP														8	0.13
FOUNTAIN CREEK NEAR PIONEER, CO.														4	1.00
FOUNTAIN CREEK AT PUERTO	XX	XX		0	X	X		XX		XX			X	5	1.00
LITTLE FOUNTAIN CREEK NEAR FOUNTAIN COLORADO RTVFR NEAR LOHA	.	0												5	0.40
COLORADO RTVFR BELOW COLORADO-HUT	0	0												6	0.67
SAN JUAN RTVFR AT SHIPROCK, NM														12	0.17
SAN JUAN R AT FOUR CORNERS, CO	0	X							0					12	0.42
MCELMO CREEK WEST OF CORTEZ	XX		XX		XX									5	1.00
MCELMO CREEK NEAR COLORADO-HUT	XY	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	13	1.00
MANCOS RTVFR NEAR CORTEZ, CO.	XY	XX	XX											5	0.60
MANCOS RTVFR 3 MILES NORTH OF STATE LINE	XX		XX			X								5	0.80
LA PLATA R NORTH OF LA PLATA														5	0.80
LA PLATA RTVFR AT COLORADO-NEW M	XY	XX	XX											12	0.75
ANTHAS RTVFR NEAR SILVERTON	Y		X											6	0.33
GREEN RTVFR AT COLORADO-NEW M	0													6	0.17
WHITE RTVFR ABOVE RANGELY, CO.														11	0.09
WHITE CREEK NEAR WHITE RIVER, CO.	XX	X	X		0	XX	XX	XX	X	XX	X	X		9	0.89
PICFANCE CREEK AT WHITE RIVER, CO.	X	X	X											12	0.92
LITTLE SNAKE RTVFR NEAR LILLY, CO														11	0.18
WILSON CREEK NEAR AXTAR, CO.														8	0.75
FOTDFI CREEK AT MOUTH, NEAR OAK						X								7	0.71
DOLORES RTVFR ABOVE CONFLUENCE WITH SAN JUAN														5	0.60
DOLORES RTVFR AT GATEWAY														5	0.60
SAN MIGUEL RTVFR AT NATURITA, CO														10	0.40
SAN MIGUEL RTVFR AT URAVAN, CO														2	0.50
SAN MIGUEL RTVFR BELOW URAVAN, CO						X								3	0.57
SALT CREEK NEAR MACK, CO.						XX								4	1.00
FAST SALT CREEK NEAR MACK, CO.						XX		XX						4	1.00
WEST SALT CREEK NEAR MACK, CO.						X		XX						1	1.00
ADOMA CREEK NEAR FRUTTA, CO.						XX		X						4	1.00
GUNNISON SOUTHEAST OF GRD JUNCT						X								1	1.00

LEGEND: 0 = EXCEEDS CRITERIA BY LESS THAN 15%

X = EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX = EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEED CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
GUNNISON RIVER NEAR GRAND JUNCTION	---	---	---	---	---	---	---	XX	XX	XX	XX	XX	10	0.50
SPRING CREEK NEAR MONTROSE, CO.	XX	X	X	X	X	X	9	0.67						
UNCOMPANAHREE RIVER AT RTDGWAY	XX	4	0.25											
UNCOMPANAHREE RIVER AT DELTA	XX	4	1.00											
UNCOMPANAHREE RIVER AT DELTA, CO.	XX	4	1.00											
SURFACE CREEK AT ORCHARD CITY	XX	6	0.17											
W FK OF GUNNISON BELOW HOTCHKISS	XX	5	0.60											
ROAN CREEK NEAR DE BEQUE	XX	10	0.40											
ROAN CREEK NEAR DE BEQUE	XX	8	0.75											
PARACHUTE CREEK AT GRAND VALLEY	XX	7	0.71											
EAGLE RIVER AT GYPSUM, CO.	XX	6	0.27											
CROSS CREEK AT CON. WITH EAGLE	XX	6	0.33											
BLUE RIVER ABOVE DILLON RES.	XX	6	0.17											
NORTH FORK REPUBLICAN RIVER NEAR LAIRD	XX	4	0.25											
ARTCKAREE RIVER NEAR WRAY, COLOR.	XX	5	0.60											
SOUTH PLATTE RIVER NEAR PLATTVILLE	XX	4	0.33											
SOUTH PLATTE NEAR KERSEY	XX	6	1.00											
SOUTH PLATTE RIVER NEAR WELDONA,	XX	12	0.92											
S. PLATTE BELOW FT. MORGAN	XX	5	1.00											
SOUTH PLATTE RIVER AT BALZAC	XX	5	1.00											
SOUTH PLATTE BELOW STERLING	XX	5	1.00											
SOUTH PLATTE RIVER AT JULIETBURG	XX	12	1.00											
RIJOU CREEK NEAR FT. MORGAN, CO.	XX	9	1.00											
CACHE LA POUDRE RIVER BELOW FORT	XX	12	0.98											
CACHE LA POUDRE RIVER AT TIMNATH	XX	9	0.78											
CACHE LA POUDRE NEAR FT. COLLINS	XX	6	0.50											
CACHE LA POUDRE RIVER NEAR GREEN	XX	12	0.92											
CACHE LA POUDRE NEAR GREENLEY	XX	6	1.00											
BIG THOMPSON RIVER AT MOUTH, NEAR LA SAL	XX	12	0.92											
BIG THOMPSON NEAR MOUTH	XX	6	1.00											
LITTLE THOMPSON NEAR BERTHOUD	XX	6	0.83											
LITTLE THOMPSON NEAR HILLIKEN	XX	6	1.00											
ST. VRAIN BELOW LONGMONT	XX	5	0.60											
ST. VRAIN NEAR MOUTH	XX	6	0.67											
ST. VRAIN CREEK AT MOUTH, NEAR P	XX	12	0.83											
LEFT HAND CREEK NEAR NWOT	XX	6	0.83											
LEFT HAND CREEK AT MOUTH, AT LON	XX	9	0.87											
BEAR CREEK AT JEFFERSON-DENVER COUNTY, CO	XX	7	0.14											

00619 UN-ION2D

S PLATTE # 60TH AVE MDSDD NO.1

XX

1 1.00

00608 NH3+NH4-

CACHE LA POUDRE RIVER AT TIMNATH

X

6 0.11

00610 NH3+NH4-

ARKANSAS RIVER NEAR CANON CITY

X

5 0.20

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%

X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEDENCE PROBABILITY
ARKANSAS RIVER NEAR HEPESTA			O										22	0.05
FOUNTAIN CREEK BELOW COLORADO SP	XX	XX	XX	X	XX		X	XX	O	XX			24	0.63
FOUNTAIN CREEK AT PUERCO			XX										6	0.17
COLORADO RIVER NEAR CAMPO								XX					5	0.20
NAVAJO RIVER NEAR CHROMO						XX							3	0.33
WHITE RIVER BELOW PIGFANCE CRK							XX						5	0.20
DOLORES RIVER AT GATEWAY									XX		X		5	0.40
UNCOMPAGNE RIVER AT DELTA							XX						15	0.07
CRYSTAL RIVER AT REDSTONE									XX				4	0.25
RIO GRANDE AT ALAMOSA													2	0.13
SOUTH PLATTE AT HENDERSON	X	XX	XX		X			XX			XX	20	0.55	
SOUTH PLATTE RIVER NEAR PLATTVILLE									X				1	0.33
SOUTH PLATTE NEAR KERSY			XX								XX	21	0.14	
CACHE LA POUDRE NEAR FT. COLLINS				O									10	0.05
CACHE LA POUDRE NEAR GREENLEY				X							XX	20	0.15	
BIG THOMPSON NEAR MOUTH											X	21	0.05	
ST VRAIN BELOW LONGMONT	X	XX											13	0.23
BOULDER CR. AT BLDR WELD CO LINE				XX									20	0.15
CLEAR CREEK NEAR MOUTH	X		X										12	0.25
00720 CYANIDE														

ARKANSAS R. BELOW LEADVILLE, CO													5	0.0
ARKANSAS RIVER NEAR CANON CITY													4	0.0
ARKANSAS RIVER NEAR PUÉBLÓ			XX										5	0.0
ARKANSAS RIVER NEAR HEPESTA			XX										6	0.17
ARKANSAS AT CATALIN CANAL HDGT		XX											6	0.33
ARKANSAS RIVER NEAR LA JUNTA					X								6	0.17
ARKANSAS RIVER AT LAS ANIMAS													6	0.0
ARKANSAS RIVER AT LAMAR, COLO													6	0.0
ARKANSAS RIVER AT LAS ANIMAS													6	0.0
PURGATORIE RIVER NEAR SEGUNDO													6	0.0
PURGATORIE RIVER BELOW TRINIDAD								X					6	0.33
PURGATORIE RIVER NEAR LAS ANIMAS													6	0.0
HUERFANO RIVER AT HIGHWAY 85-87													6	0.0
ST CHARLES ABOVE CONfluence WITH N ST CH							X						6	0.17
FOUNTAIN CREEK NEAR MANITOU								XX					6	0.17
FOUNTAIN CREEK BELOW COLORADO SP	X												6	0.17
HALFNION CREEK NEAR MALTA, CO.	XX							XX					5	0.67
COLORADO RIVER NEAR HOT SULFUR SPRINGS	XX												5	0.20
COLORADO RIVER NEAR DOTSERO							X						5	0.20
SAN JUAN RIVER BELOW PAGOSA													3	0.0
MANCOS RIVER 3 MILES NORTH OF STATE LINE			X										3	0.0
ANTMAS RIVER ABOVE DURANGO				X									3	0.13
PIEDRA RIVER NEAR ARBOLES, COLO													6	0.0
NAVAJO RIVER NEAR CHROMO							XX	XX					4	0.50
WHITE RIVER AT RANGELEY													5	0.20
YAMPA RIVER AT MTIMER											X		6	0.17
YAMPA BELOW LITTLE SNAKE RIVER													4	0.0
DOLORES RIVER AT GATEWAY								XX					5	0.20

LEGEND: O - EXCEEDS CRITERIA BY LESS THAN 15%
 X - EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
 XX - EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEDENCE PROBABILITY
SAN MIGUEL NEAR NORWOOD	---	---	---	---	---	---	XX						4	0.25
SAN MIGUEL RIVER BELOW URAVAN, CO								XX					1	1.00
CIMONSON RIVER NEAR DELTA					X								6	0.17
UNCOMPRESSED RIVER AT DELTA						X							4	0.25
ROAN CREEK NEAR DE BEQUE				X				X					4	0.50
EAGLE RIVER AT REDCLIFF									Y				4	0.25
BEAVER CREEK AT AVON						XX							4	0.25
GORE CREEK AT RICHLAND SPRINGS										X			6	0.17
GORE CREEK AT MOUTH					X								6	0.17
CROSS CREEK AT CEN. WITH EAGLE					X				XX				5	0.13
BLUE RIVER ABOVE DILLON RES.					XX				XX				5	0.40
BLUE RIVER BELOW DILLON RES.						XX							5	0.20
TEN MILE CREEK AT FRISCO						XX							3	0.13
MICHIGAN RIVER AT WALDEN													5	0.20
RIO GRANDE RIVER NEAR CREEDE									XX				4	0.25
RIO GRANDE AT ALAMOSA						XX							5	0.20
CONEJOS RIVER NEAR MAGOTE						XX							2	0.50
SAGUACHE CREEK NEAR SAGUACHE									X				4	0.25
SOUTH PLATTE RIVER NEAR TOWN OF SOUTH PL			X										5	0.33
SOUTH PLATTE AT HENDERSON					X				X				5	0.60
SOUTH PLATTE RIVER NEAR PLATTVILLE									XX				3	0.33
SOUTH PLATTE NEAR KERSY													5	0.0
S. PLATTE BELOW FT. MORGAN										X			5	0.0
SOUTH PLATTE RIVER AT BALZAC													4	0.20
SOUTH PLATTE BELOW STERLING										X			4	0.25
CACHE LA POUDRE ABOVE FT COLLINS			Y					X					5	0.20
CACHE LA POUDRE NEAR GREELEY													5	0.20
BIG THOMPSON NEAR LOVELAND			XX										5	0.0
BIG THOMPSON NEAR MOUTH													5	0.0
ST. VRAIN BELOW LONGMONT			Y										5	0.20
ST. VRAIN NEAR MOUTH			X										5	0.20
BOULDER CR. AT RIDGEFIELD CO LINE			Y										6	0.17
CLEAR CREEK AT WHEAT RIDGE, COLORADO										X			6	0.17
01034 CHROMIUM														

ARKANSAS RIVER NEAR NEPESTA, CO.									0				3	0.33
SAN JUAN RIVER AT SHIPROCK, NM						X							4	0.25
01147 SPUTNIUM														

ARKANSAS RIVER AT LAMAR, COLORADO													4	0.25
FOUNTAIN CREEK AT PUERCO									XX				2	1.00
COLORADO RIVER NEAR LOMA													4	0.25
MCLEOD CREEK NEAR COLORADO-UTAH							0	X					2	0.50
71900 MERCURY														

YAMPA RIVER NEAR MAYFIELD, CO.								X					3	0.13

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%

X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
01042 COPPER	---	---	---	---	---	XX	X	X	X	X	6	0.67		
*****						XX					4	0.25		
ARKANSAS R. BELOW LEADVILLE, CO.					O		XX				3	0.67		
ARKANSAS RIVER AT PORTERLAND, CO.							XX				1	0.33		
ARKANSAS RIVER NEAR AVONDALE, CO.							XX				21	0.14		
ARKANSAS RIVER NEAR NEPESTA, CO.											6	0.17		
ARKANSAS RIVER NEAR NEPESTA							X				6	0.17		
PURGATOTRF RIVER NEAR SEGUNDO					O						7	0.50		
HUERFANO RIVER AT HIGHWAY 15-87					X						3	0.33		
POUNTAIN CREEK NEAR PINON, CO.						XX					5	0.20		
HALEMON CREEK NEAR MANTA, CO.			X								4	0.50		
SAN JUAN ABOVE NAVAJO RESERVOIR					XX						3	0.67		
SAN JUAN RIVER AT SHIPROCK, NM						XX					4	0.20		
SAN JUAN R AT FOUR CORNERS, CO					X						3	0.67		
MANCOS RIVER AT MANCOS						XX					5	0.20		
LA PLATA RIVER AT HIGHWAY 160					O						6	0.17		
LA PLATA R NORTH OF LA PLATA					X						5	0.20		
ANIMAS RIVER NEAR SILVERTON	XX					XX	XX	X			12	0.58		
RIO PINTOS RIVER NEAR LAROCHE						XX					4	0.25		
YAMPA RIVER NEAR MAYFIELD, CO.											4	0.25		
LITTLE SNAKE ABOVE LITTLE					XX						2	0.50		
LITTLE SNAKE RIVER NEAR LITTLE, CO					XX						4	0.75		
WILSON CREEK NEAR AXTON, CO.						XX					4	0.25		
DOLORES RIVER ABOVE CONFLUENCE WITH SAN						X					7	0.14		
SAN MIGUEL, NEAR MORWOOD							XX				5	0.20		
GUNNISON RIVER NEAR GRAND JUNCTI			X								4	0.25		
UNCOMPAGHRE RIVER AT RDGWAY					O	X	X				4	0.50		
FAST RIVER AT CONFL. WITH TAYLOR											5	0.20		
SLATE RIVER BELOW CRESTED BUTTE					XX	X		XX			5	0.60		
FAIR RIVER AT TOWN OF EDWARDS				O	O						23	0.13		
BEAVER CREEK AT AVON							XX		O		7	0.29		
RIO RIVER NEAR CONFLUENCE WITH COLORADO							O				5	0.20		
SNAKE RIVER BELOW KEYSTONE					X	X		XX			4	1.00		
FRASER RIVER NEAR GRANBY											4	0.25		
RIO GRANDE RIVER NEAR DEL NORTE						X					3	0.33		
RIO GRANDE NEAR TOROTOS, CO.											4	0.25		
S FORK RIO GRANDE R AT TOWN OF SOUTH FOR							X				5	0.40		
SOUTH PLATTE RIVER NEAR TOWN OF SOUTH PL								X			6	0.33		
SOUTH PLATTE AT HENDERSON											21	0.05		
CLEAR CREEK BELOW IDAHO SPRINGS						X					6	0.83		
CLEAR CREEK ABOVE GOLDEN	O	XX	X	XX	XX	XX	XX		XX		17	0.04		
CLEAR CREEK AT WHEAT RIDGE, COLO							XX				12	0.08		
CLEAR CREEK NEAR MOUTH								X			12	0.17		
NORTH FORK CLEAR CREEK BELOW BLACKHAWK						XX	XX				1	1.00		
WEST FORK CLEAR CREEK BELOW EMPIRE						X					3	0.67		
01051 LEAD											3	0.33		
*****											12	0.08		
SAN JUAN R AT FOUR CORNERS, CO														
ANTMAS RIVER NEAR SILVERTON														

LEGEND: O= EXCEEDS CRITERIA BY LESS THAN 15%
X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 2. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
01092 7INC														
*****	XX	6	1.00											
ARKANSAS R. BELOW LEAVENWELL, CO.							XX						4	0.25
ARKANSAS RTVFR AT PORTLAND, CO.							X						3	0.33
ARKANSAS RTVFR NEAR AVONDALE, CO.							XX						3	0.33
ARKANSAS RTVFR NEAR NEPESTA, CO.							X						21	0.19
ARKANSAS RTVFR NEAR NEPESTA						X	XX						14	0.07
ARKANSAS RTVFR AT LAMAR, CO.						XX							6	0.17
PUEBLO RTVFR NEAR SEGUNDO						XX							6	0.17
HUERFANO RTVFR AT HIGHWAY 85-87						XX							24	0.04
FOUNTAIN CREEK BELOW COLORADO SP						X							2	0.50
FOUNTAIN CREEK NEAR PIONEER, CO.						X							5	0.20
COLORADO RTVFR NEAR CAMPO						XX							4	0.50
SAN JUAN RTVFR AT SHIPROCK, NM						X							3	0.33
SAN JUAN R AT FOUR CORNERS, CO						XX	XX	X	XX	XX	XX	XX	12	0.92
ANTIMAS RTVFR NEAR SILVERTON						XX	XX	X	XX	XX	XX	XX	3	0.33
ANTIMAS RTVFR ABOVE DURANGO						XX	XX	X	XX	XX	XX	XX	6	0.17
WILSON CREEK NEAR AXAHA, CO.						XX	XX	X	XX	XX	XX	XX	1	1.00
SAN MIGUEL RTVFR AT NATURITA, CO						XX	XX	X	XX	XX	XX	XX	7	0.14
UNCOMPAGHRE RTVFR AT RIDGEWAY						XX	XX	X	XX	XX	XX	XX	5	0.20
FAST RIVER AT CONFUS, WITH TAYLOR						XX	XX	X	XX	XX	XX	XX	5	0.20
SLATE RIVER BELOW CRESTED BUTTE						XX	XX	X	XX	XX	XX	XX	4	0.25
FACILE RTVFR AT REDCUTTF						XX	XX	X	XX	XX	XX	XX	23	0.13
FACILE RTVFR AT TOWN OF EDWARDS						XX	XX	X	XX	XX	XX	XX	11	0.09
FACILE RTVFR AT GYPSUM						XX	XX	X	XX	XX	XX	XX	6	0.11
CROSS CREEK AR CON, WITH EAGLE						XX	XX	X	XX	XX	XX	XX	4	1.00
SNAKE RTVFR BELOW KEYSTONE						XX	XX	X	XX	XX	XX	XX	5	0.20
TEN MILE CREEK AT FRISCO						XX	XX	X	XX	XX	XX	XX	2	0.50
RIO GRANDE NEAR WAGONWHEEL GAP						XX	XX	X	XX	XX	XX	XX	4	0.50
RIO GRANDE RTVFR NEAR DEL NORTE						XX	XX	X	XX	XX	XX	XX	7	1.00
CLEAR CREEK BELOW IDAHO SPRINGS						XX	XX	X	XX	XX	XX	XX	17	0.94
CLEAR CREEK ABOVE GOLDEN						XX	XX	X	XX	XX	XX	XX	12	0.08
CLEAR CREEK NEAR MOUTH						XX	XX	X	XX	XX	XX	XX	2	1.00
NORTH FORK CLEAR CREEK BELOW BLACKHAWK						XX	XX	X	XX	XX	XX	XX	3	0.13
01027 CADMIUM														

ARKANSAS R. BELOW LEAVENWELL, CO.								XX					6	0.17
ARKANSAS RTVFR NEAR PUEBLO, CO.								XX					2	0.50
SAN JUAN R AT FOUR CORNERS, CO													3	0.33
MANCOS RTVFR AT MANCOS								XX					5	0.20
NORTH FORK GUNNISON RTVFR NEAR S													4	0.25
NORTH FORK GUNNISON RTVFR NEAR BOWIE								XX					4	0.25
SLATE RIVER BELOW CRESTED BUTTE								XX					2	0.50
CLEAR CREEK BELOW IDAHO SPRINGS													3	0.13

PROCESSING COMPLETE FOR REQUESTED PERIOD

Table 3. Water Quality Trends

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Amonia	Sulfate	Chloride	Calcium	Hardness	Metals
Arkansas R blw Leadville											D Cd*
Arkansas R Nr Malta				I				I	I		
Arkansas R Nr Canon City											D Cd
Arkansas R at Portland										I	
Arkansas R Abv Pueblo	I					D					D Cd*
Arkansas R Nr Avondale						D					
Arkansas R Nr Nepesta	D*	D		D							D As Cd
Arkansas R Nr Nepesta											Cu Pb*
Arkansas R Nr La Junta											D As Cd
Arkansas R blw John Martin Reservation					I*			I*			
Arkansas R at Lamar	D*										I Zn*
Arkansas R Nr Coolidge, KS	I										I Se
Purgatoire R Nr Segundo											D Cd
Purgatoire R blw Trinidad	D										D Cd
Purgatoire R Nr Las Animas											D Mg Cd
Cucharas R blw Walsenburg											I Zn
St Charles R abv N St Charles		D	D			D		D			
Fountain Cr Nr Manitou											D Cd
Fountain Cr at Colo Spgs						I					
Fountain Cr blw Colo Spgs						I*					D Cd
Fountain Cr Nr Pinon		D									
Fountain Cr at Pueblo											D Cd

Table 3 (continued). Water Quality Trends

COLORADO

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
				D				D			
Monument Cr at Pikeview				D							
Halfmoon Cr Nr Malta							D				
Granby Pump Canal Nr Grand Lake	D										
Colorado R at Hot Sulphur Springs							D				
Colorado R Nr Dotsero	D		I								I Zn
Colorado R at New Castle	D				D					I	I Zn
Colorado R Nr Cameo											D Cd Zn
Colorado R Nr Loma	I							I			
Colorado R blw CO-UT Line	I		I			I	I			I	
Mc Elmo Cr blw Cortez											D Cd
Mancos R at Mancos		D									D Cd*
Mancos R Nr Cortez			I*			I*				I	
La Plata R at Hwy 160					D						
Animas R Nr Silverton					I						D Cd
Animas R Nr Bondad											D Cd
Florida R abv Animas R					D						
Navajo R Nr Chromo											D C *
Green R at CO-UT Line											D Cd
White R at Meeker											D Cd
White R blw Piceance Cr					D						D Cd
White R at Rangely											D Cd
White R Nr CO-UT Line			I								

Table 3 (continued). Water Quality Trends

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
	D										D _{Cd}
Yampa R Nr Milner	D										D _{Cd}
Yampa R blw Little Snake R											D _{Cd}
Foidel Cr at Mouth				D*							
Dolores R abv San Miguel		D*	D*					D*			
Dolores R at Gateway											D _{Cd}
San Miguel R Nr Norwood											D _{Cd}
Gunnison R Nr Delta											D _{Cd}
Gunnison R Nr Grand Jct	I		I				I	I	I	I	D _{Pb}
Uncompahgre R at Ridgway											D _{Mg}
Uncompahgre R at Delta	D*		D*	I*			I		I	I	D _{Cu} Mg
Tomichi Cr at Gunnison			D								D _{Cd} Cu
E Taylor R abv Taylor R			D								
Taylor R at Almont			D								
Roan Cr Nr De Beque				D*							D _{Cd} Pb
Parachute Cr at Parachute	D										D _{Pb} Cd
Roaring Fork at Mouth	D				D						D _{Cd}
Eagle R at Edwards							I				D _{Cd}
Eagle R at Gypsum		D			D		I				D _{Cd}
Cross Cr abv Eagle R	D				I						I Cu Pb
Gore Cr at Vail		D							I		
Gore Cr at Bighorn Sub.					D						
Blue R abv Dillon Res.	D			D					I	D _{Cd}	

Table 3. Water Quality Trend Table

Stations and Parameters where Significant Statistical Differences were Observed.

Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Blue R abv Colorado R		D				D					
N Platte R Nr Northgate										I	
Michigan R at Walden											D Cd
Little Grizzly Cr abv Hebron										I	
Rio Grande R at Alamosa											I Zn
Rio Grande R Nr Lobatos					D*	D					
S Fork Rio Grande at South Fork		D*									
Conejos R Nr Magote						D					
N Fork Republican R Nr Laird		D*	D*			D					D Mg As
Arickaree R Nr Wray	D*									I	Zn
S Platte R Nr South Platte							I				D Cd
S Platte R abv Littleton	I			I							
S Platte R at 60th Ave, Denver		I*(NO ₂) D (NO ₂ & NO ₃) D (Kjeldahl)	I*(NO ₃)			D*				D	
S Platte R at 88th Ave, Denver		D (Kjeldahl)	D		D					D	
S Platte R at Henderson		I*									D Cd
S Platte R Nr Kersey				I*					I		D Cd Cu
S Platte R Nr Weldona			I*			I*	I*	I	I	I	
S Platte R at Balzac			D*								
S Platte R blw Sterling										I	Mg
Cache La Poudre Nr Fort Collins			D*		I					I	Zn
Cache La Poudre Nr Greeley			I*				I	I	I	I	Mg Zn

Table 3 (continued). Water Quality Trend Table

Stations and Parameters where Significant Statistical Differences were Observed.

Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Table 4. Ranking of Critical Water Quality Stations by Pollutant Group

	<u>Exceed. Prob.</u>	<u>No. Mos. Exc'd</u>	<u>Avg. Conc. mg/l</u>
<u>Fecal Coliform</u>			
1. Muster Cr nr Kinsey	1.00	2	13760
2. Yellowstone R at Huntley	0.67	10	1305
3. Custer Cr nr Kinsey	0.40	2	5793
4. Yellowstone R at Billings	0.64	7	390
<u>Nitrogen</u>			
1. West Parrot Cr nr Roundup	1.00	12	2.49
2. Muster Cr nr Kinsey	1.00	4	5.15
3. Big Muddy Cr nr Antelope	0.71	5	2.36
4. Glendive Cr nr Glendive	0.57	4	4.04
5. E Fork Poplar R nr Scobey	0.75	7	1.21
6. Home Cr nr Ashland	0.75	6	1.31
7. E Poplar R at Int'l Bdry	0.57	7	1.19
8. Red water R nr Vida	0.50	6	1.23
<u>Phosphorus</u>			
1. Muster Cr nr Kinsey	1.00	1	3.59
2. Powder R nr Locate	1.00	3	1.10
3. Powder R at Moorhead	1.00	2	0.83
4. Milk R at Nashua	1.00	2	0.42
5. Missouri R nr Culbertson	1.00	2	0.34
6. Yellowstone R nr Sidney	0.83	3	0.24
7. Rosebud Cr at Mouth	1.00	2	0.26
8. Rosebud Cr nr Colstrip	1.00	2	0.24
9. Missouri R nr Landusky	0.67	2	0.36
<u>Dissolved Solids</u>			
1. Otter Cr nr Otter	1.00	9	5085
2. Hanging Woman Cr blw Horse Cr	1.00	9	4061
3. Redwater R at Circle	0.92	10	3123
4. O'Fallon Cr nr Ismay	1.00	10	2501
5. Home Cr nr Ashland	1.00	9	2676

Table 4 (Continued). Ranking of Critical Water Quality Stations
by Pollutant Group

	<u>Exceed. Prob.</u>	<u>No. Mos. Exc'd</u>	<u>Avg. Conc. mg/l</u>
<u>Dissolved Solids</u>			
6. Otter Cr blw Fifteenmile Cr	1.00	9	2526
7. Fattig Cr nr Delpia	1.00	12	1774
8. Redwater R nr Vida	0.92	10	2142
9. Powder R at Moorhead	1.00	11	1637
10. Beaver Cr at Wibaux	1.00	9	1658
<u>Suspended Sediments</u>			
1. Powder R at Moorhead	1.00	8	4057
2. Muster Cr nr Kinsey	1.00	4	6700
3. Powder R nr Locate	1.00	7	2337
4. Custer Cr nr Kinsey	0.75	3	5197
5. Glendive Cr nr Glendive	0.86	6	2080
6. Muddy Cr at Vaughn	1.00	2	2790
7. Muddy Cr nr Vaughn	1.00	1	4130
8. Mizpah Cr nr Mizpah	0.71	5	784
9. Musselshell R nr Roundup	0.71	8	670
10. Yellowstone R nr Sidney	0.86	5	356

TABLE 5. TABLE OF STATIONS WHERE WATER QUANTITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	N.D.	PREFERENCE DWS	PREFERENCE PRIMARILY
00300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
POWDER RIVER AT MOORHEAD, MT.	o	x	-	-	-	-	-	-	-	-	-	-	12	0.17	
POWDER RIVER NEAR LOCATE, MT.	-	x	x	-	-	-	-	-	-	-	-	-	11	0.18	
MIZPAH CREEK AT OLTVE, MT.	-	-	-	xy	-	xx	-	-	-	-	-	-	6	0.50	
MIZPAH CREEK NEAR MIZPAH, MT.	-	-	-	-	-	-	-	-	-	-	-	-	8	0.13	
OTTER CREEK BELOW FIFTEENMILE CREEK NR 0	-	-	-	-	-	-	-	x	-	-	-	-	0	0.22	
HOME CREEK NEAR ASHLAND MT	o	-	-	-	-	-	-	-	-	-	-	o	9	0.22	
RAIRIE DOG CREEK NEAR BIRNFY, MT	-	-	-	o	-	x	x	-	-	-	-	-	6	0.67	
HANGING WOMAN CREEK NEAR BIRNFY,	-	-	-	-	-	o	-	-	-	-	-	-	9	0.11	
POPLAR RIVER AT INTERNATIONAL RD.	-	-	-	-	-	-	-	-	-	o	-	-	11	0.09	
POPLAR RIVER NEAR SCOBY	-	xy	-	-	-	-	-	-	-	-	-	-	9	0.11	
WEST FORK POPLAR RIVER NEAR BIRD	xy	-	-	-	-	-	-	-	-	-	-	-	11	0.09	
EAST POPLAR RIVER AT INTERNATIONAL	xy	x	-	-	-	-	-	-	-	-	-	-	13	0.15	
FAST FORK POPLAR RIVER NEAR SCOB	-	-	-	-	-	-	-	x	-	-	-	-	11	0.18	
ROCK CREEK BELOW HORSE CREEK, NE	xy	-	-	-	-	-	-	-	-	-	-	-	11	0.09	
31625 FEC CO II	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
MISSOURI RIVER AT VIRGELIE, MT.	-	-	-	-	-	-	xx	-	-	-	-	-	12	0.08	
MISSOURI RIVER NEAR LAMOUSKY, MT	-	-	-	-	-	-	xx	-	xx	-	-	-	9	0.11	
YELLOWSTONE RIVER AT LAUREL, MT	-	-	-	-	-	-	xx	-	-	-	-	-	16	0.19	
YELLOWSTONE RIVER AT BILLINGS MT	xy	-	-	o	xx	x	-	xx	x	o	11	-	6	0.64	
YELLOWSTONE RIVER AT HUNTFY, MT	xy	o	x	x	x	xx	xx	xx	xx	xx	10	-	10	0.61	
YELLOWSTONE RIVER NEAR MILES CITY, MT.	-	-	-	-	-	-	o	-	-	-	-	-	17	0.06	
POWDER RIVER NEAR LOCATE, MT.	-	-	-	-	-	-	xx	xx	xx	-	-	-	11	0.27	
TONGUE RIVER AT STATE LINE NR DECKER Mtn	xy	xx	-	-	-	-	xx	-	-	-	-	-	11	0.27	
MUSTER CREEK NEAR KINSFY MT	-	-	-	-	-	-	xx	xx	xx	-	-	-	4	0.50	
CUSTER CREEK NEAR KINSFY MT	-	-	-	-	-	-	xx	xx	-	-	-	-	5	0.40	
O'FALLON CREEK NEAR TSMAY, MT.	-	-	-	-	-	-	xx	o	-	-	-	-	11	0.18	
CLIFAR CREEK NEAR HOYT MT	-	-	-	-	-	-	-	-	-	-	-	-	5	0.01	
UPPER SEVENMILE CREEK NEAR LINDSAY MT	-	-	-	-	-	-	x	-	-	-	-	-	4	0.25	
DEER CREEK NEAR GLENDALE MT	-	-	-	-	-	-	x	-	x	-	-	-	5	0.10	
EAST POPLAR RIVER AT INTERNATIONAL	-	-	-	-	x	-	xx	-	-	-	-	-	10	0.20	
ROCK CREEK BELOW HORSE CREEK, NE	-	-	-	-	-	xx	-	-	-	o	-	-	11	0.18	
MILK RIVER AT NASHUA, MT.	-	-	-	-	-	xx	-	-	-	-	-	-	12	0.08	
CRW ROCK CREEK NEAR COHAGEN MT	-	-	-	-	-	-	xx	-	-	-	-	-	4	0.55	
ROYFIELD CREEK NEAR ROCKY ROY MT	-	-	-	-	-	-	-	x	-	-	-	-	4	0.25	
MUSKFISHFLY RIVER AT MOSBY, MT.	-	-	-	-	-	-	-	x	-	-	-	-	13	0.08	
31501 TOT COLI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
YELLOWSTONE RIVER AT HUNTFY, MT	xy	o	-	-	o	-	vx	-	-	vx	xy	vx	16	0.50	
YELLOWSTONE RIVER NEAR MILES CITY, MT.	-	-	-	-	-	-	xx	-	-	-	-	-	14	0.07	
00600 TOTAL N	-	-	-	-	-	-	-	-	-	-	-	-	12	0.08	
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
MISSOURI RIVER AT VIRGELIE, MT.	-	-	-	-	-	-	x	-	-	-	-	-	12	0.44	
MISSOURI RIVER NEAR LAMOUSKY, MT	-	-	-	-	-	-	xx	-	xx	-	o	x	9	0.44	

LEGEND: o= EXCEEDS CRITERIA BY LESS THAN 15%
 x= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 50%
 xx= EXCEEDS CRITERIA BY MORE THAN 50%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO.	EXCEEDENCE DHS	PERCENTAGE PRIMARY
MISSOURI RIVER BELOW FORT PECK D	-	-	-	-	-	o	-	-	XX	-	X	11	0.27		
MISSOURI RIVER NEAR CULBERTSON.	-	-	-	-	-	XX	-	-	-	-	-	12	0.08		
YELLOWSTONE RIVER NEAR LIVINGSTO	-	-	-	-	-	-	-	-	-	XX	-	9	0.11		
YELLOWSTONE RIVER AT LAUREL, MT	-	-	-	-	-	o	-	-	-	-	-	16	0.06		
YELLOWSTONE RIVER AT BILLINGS, MT	-	-	-	-	-	-	-	-	-	-	X	13	0.08		
YELLOWSTONE RIVER AT HUNTERLY, MT	-	-	-	-	-	-	-	-	-	-	-	18	0.06		
YELLOWSTONE RIVER NEAR MILES CITY, MT.	-	-	-	-	-	o	-	-	-	-	-	19	0.05		
YELLOWSTONE RIVER NEAR TERRY, MT	-	-	o	-	-	X	-	-	-	-	-	11	0.27		
YELLOWSTONE RIVER NEAR STONEY, MT.	-	-	-	-	-	X	-	-	-	X	-	21	0.19		
RUPRS CREEK NEAR SAVAGE, MT.	-	-	-	-	-	XX	-	-	-	-	-	9	0.11		
POWDER RIVER AT MOORHEAD, MT.	-	-	-	-	-	XX	XX	X	X	-	XX	12	0.75		
POWDER RIVER NEAR LOCATE, MT.	-	-	-	-	-	XX	XX	XX	XX	XX	-	11	0.55		
MIZPAH CREEK AT OLIVE, MT.	-	-	-	-	-	XX	o	-	-	-	-	6	0.50		
MIZPAH CREEK NEAR MIZPAH, MT.	-	-	-	-	-	XX	-	-	XX	o	-	8	0.38		
TONGUE RIVER AT STATE LINE NR DECKER MON	XX	X	X	-	-	-	-	-	-	-	Y	11	0.36		
TONGUE RIVER AT TONGUE R DAM, NE	-	-	-	-	-	o	-	-	-	-	-	8	0.13		
TONGUE RIVER BI HANGING WOMAN C.	-	-	-	-	-	-	XX	o	-	-	-	9	0.22		
TONGUE R BI BRANDENBERG BRIDGE,	-	-	-	-	-	-	XX	-	-	-	-	8	0.13		
TONGUE RIVER AT MILES CITY, MT.	-	-	-	-	-	XX	-	-	-	-	X	11	0.18		
PUMPKIN CREEK NEAR LOESCH, MT.	-	-	-	-	-	-	-	XX	-	-	-	6	0.33		
PUMPKIN CREEK NEAR MILES CITY, MT.	-	-	-	-	-	X	-	-	-	-	X	8	0.50		
OTTER CREEK NEAR OTTER MT	-	-	-	-	-	-	-	-	-	-	X	9	0.11		
OTTER CREEK BELOW FIFTEENMILE CREEK NR O	-	-	-	-	-	X	-	-	-	-	o	9	0.33		
OTTER CREEK AT ASHLAND, MT.	-	-	-	-	-	X	XX	-	-	-	-	9	0.22		
HOME CREEK NEAR ASHLAND, MT	-	-	-	-	-	X	X	X	-	-	X	8	0.75		
COW CREEK NEAR COLSTRIP, MT	-	-	-	-	-	-	-	-	-	-	X	7	1.00		
HUSTER CREEK NEAR KINSEY, MT	-	-	-	-	-	XX	XX	XX	-	XX	-	4	1.00		
CUSTER CREEK NEAR KINSEY, MT	-	-	-	-	-	XX	-	-	XX	-	-	4	0.50		
O'FALLON CREEK NEAR ISMAY, MT.	-	-	-	-	-	X	-	-	-	-	o	12	0.25		
UPPER SEVENMILE CREEK NEAR LINDSAY, MT	-	-	-	-	-	X	-	-	-	-	-	4	0.25		
GLENDALE CREEK NEAR GLENDALE, MT	-	-	-	-	-	X	XX	-	XX	-	-	7	0.57		
DEER CREEK NEAR GLENDALE, MT	-	-	-	-	-	XX	-	-	-	-	-	5	0.20		
COTTONWOOD CREEK NEAR INTAKE, MT	-	-	-	-	-	X	o	-	-	-	-	6	0.33		
BEAVER CREEK AT WIRAUX, MT	-	-	-	-	-	XX	XX	-	-	XX	X	12	0.33		
HANGING WOMAN CREEK BI HORSE CREEK NR BI	-	-	-	-	-	X	o	o	-	-	-	9	0.33		
ROSEBUD CREEK AT KARRY, MT	-	-	-	-	-	-	XX	-	-	-	-	7	0.14		
ROSEBUD CREEK NEAR COLSTRIP, MT.	-	-	-	-	-	o	-	X	-	-	-	9	0.44		
ROSEBUD CREEK AT MOUTH, NEAR ROS	-	-	-	-	-	XY	X	-	X	-	-	9	0.33		
FAST FORK ARMELIS CREEK NEAR COL	-	-	-	-	-	X	-	-	-	-	XX	6	0.23		
ARMEELS CREEK NEAR FORSYTH, MT.	-	-	-	-	-	o	-	-	-	-	-	9	0.11		
SARPY CREEK NEAR HYSHAM, MT.,	-	-	-	-	-	X	-	-	-	-	-	9	0.11		
BIGHORN RIVER AT BIGHORN, MT.	-	-	-	-	-	-	-	-	-	-	X	11	0.09		
BIG SAND C. AT WY-MONT STATE LTNE	-	-	-	-	-	XY	XX	-	-	-	-	2	1.00		
BIG MUDDY CREEK NEAR ANTILLOP, MT	-	-	-	-	-	XX	XX	-	X	-	XX	7	0.71		
POPLAR RIVER AT INTERNATIONAL RD	-	-	-	-	-	XX	X	-	Y	-	-	11	0.36		
POPLAR RIVER NEAR SCOBY	-	-	-	-	-	Y	XX	X	-	-	-	9	0.56		
POPLAR RIVER ABOVE WEST FORK, NFA	-	-	-	-	-	XX	X	-	-	XX	-	11	0.27		
POPLAR RIVER NEAR POPLAR, MT.	-	-	-	-	-	XX	YY	-	-	-	-	12	0.17		
WEST FORK POPLAR RIVER NEAR BRED	-	-	-	-	-	XX	X	-	-	-	-	12	0.17		
EAST POPLAR RIVER AT INTERNATIO	-	-	-	-	-	X	Y	X	X	o	X	14	0.57		

LEGEND: o= EXCEEDS CRITERIA BY LESS THAN 15%

x= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 95%

XX= EXCEEDS CRITERIA BY MORE THAN 95%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	NO.	EXCEEDENCE DISPABILITY		
EAST FORK POPULAR RIVER NEAR SCOB					X	X	O		X	X	X	X	12	0.75		
BEAVER CREEK AT INTERNATIONAIS BOUNDARY					XX								4	0.25		
REDWATER RIVER AT CIRCLE, MT.					X	X		X					12	0.25		
REDWATER RIVER NEAR VIDA, MT.					X	X	XX	XX	X				0	0.50		
PRAIRIE FISH CREEK NEAR OSHWEGO MT							XX						8	0.13		
MILK RIVER AT NASHUA, MT.					X	X	XX	O					X	12	0.50	
CROW ROCK CREEK NEAR COHAGEN MT							X	X					4	0.75		
NEISON CREEK NEAR VAN NORMAN, MT.							XX		X	X				5	0.60	
TIMBER CREEK NEAR VAN NORMAN, MT							O	X						6	0.33	
HALF BREED CREEK NEAR KLEIN MT					X	X	XX						XX	XX	12	0.42
FAST PARROT CREEK NEAR ROUNDUP MT							X	O					X	X	8	0.50
WEST PARROT CREEK NEAR ROUNDUP MT					XX	XX	XX	XX	XX	XX	XX	XX	12	1.00		
FATIGUE CREEK NEAR DEPTA MT					O								X	X	12	0.25
MUSSELMILL RIVER NEAR ROUNDUP							O	O	X						14	0.56
MUSSELMILL RIVER AT MOSBY, MT.							X	O	X				XX		13	0.31
MARIAS RIVER NEAR CHESTER, MT.							O								12	0.08
CLARK FORK BIGHORN MONTANA, MT.										X					12	0.08
FLATHEAD RIVER AT COLUMBIA FALLS										O					11	0.09
00610 NO26NO1																

YELLOWSTONE RIVER NEAR LIVINGSTON													X		0	0.11
MONTANA CREEK NEAR MONTANA, MT.															8	0.13
TONGUE RIVER AT STATE LINE NR DECKER Mtn															11	0.09
TONGUE RIVER BI. HANGING WOMAN C.														9	0.11	
HOME CREEK NEAR ASHLAND MT															8	0.0
MUSTER CREEK NEAR KINSLEY MT															4	0.50
CUSTER CREEK NEAR KINSLEY MT															4	0.25
GLENDRIVE CREEK NEAR GLENDRIVE MT															7	0.0
BEAVER CREEK AT WIRAUX MT															12	0.08
BIG SAND C. AT WY-MONT STATE LINE															3	0.67
REDWATER RIVER NEAR VIDA, MT.															12	0.68
NEISON CREEK NEAR VAN NORMAN, MT.															5	0.0
HALF BREED CREEK NEAR KLEIN MT															12	0.25
FAST PARROT CREEK NEAR ROUNDUP MT															8	0.13
WEST PARROT CREEK NEAR ROUNDUP MT					X	X	XX	XX	XX	X	X	XY	XX	XX	12	1.00
MUSSELMILL RIVER AT MOSBY, MT.															13	0.08
00665 PHOS-TOT																

MISSOURI RIVER AT VIRGINIA, MT.															12	0.25
MISSOURI RIVER NEAR LANDUSKY, MT															0	0.33
MISSOURI RIVER NEAR CUIBERTSON															12	0.17
YELLOWSTONE RIVER AT LAUREL, MT															18	0.06
YELLOWSTONE RIVER AT BILLINGS MT															12	0.08
YELLOWSTONE RIVER AT HUNTER, MT															18	0.17
YELLOWSTONE RIVER AT FORSYTH, MT															11	0.0
YELLOWSTONE RIVER NEAR MILES CITY, MT.															19	0.26
YELLOWSTONE RIVER NEAR STONYFORD, MT.															21	0.33
BURNS CREEK NEAR SAVAGE, MT.															0	0.11

LEGENDS: O= EXCEEDS CRITERIA BY LESS THAN 15%
 X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 50%
 XX= EXCEEDS CRITERIA BY MORE THAN 50%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEP. DEVICE PROBABILITY
POWDER RIVER AT MOORHEAD, MT.	-	-	-	XX	XX	XX	XX	XX	XX	-	X	12	0.83	
POWDER RIVER NEAR LOCATE, MT.	-	-	-	XX	XX	0	XX	XX	XX	-	-	11	0.55	
MIZPAH CREEK AT OLIVE, MT.	-	-	-	XX	-	-	Y	-	-	-	-	6	0.50	
MIZPAH CREEK NEAR MIZPAH, MT.	-	-	-	XX	-	-	XX	-	-	-	-	8	0.25	
TONGUE RIVER AT STATE LINE NR DECKER MONT	-	-	0	X	-	-	-	-	-	-	XX	10	0.30	
TONGUE RIVER BI. HANGING WOMAN S.	-	-	-	-	-	-	XX	-	-	-	-	9	0.11	
TONGUE RIVER AT MILES CITY, MT.	-	-	-	XX	-	-	-	X	-	-	-	11	0.18	
PUMPKIN CREEK NEAR MILES CITY, MT	-	-	-	XX	-	-	-	-	-	-	-	8	0.25	
OTTER CREEK AT ASHLAND, MT.	-	-	-	XX	-	0	-	-	-	-	-	9	0.22	
CUSTER CREEK NEAR KINSEY MT	-	-	-	Y	XX	XX	-	XX	-	-	-	4	1.00	
CUSTER CREEK NEAR KINSEY MT	-	-	-	-	-	-	XX	-	-	-	-	2	0.23	
DEFALCON CREEK NEAR TS'WAT, MT.	-	-	-	XX	-	-	-	-	-	-	-	12	0.08	
GLENDALE CREEK NEAR GLENDALE MT	-	-	-	XX	XX	-	XX	-	-	-	-	7	0.43	
DEER CREEK NEAR GLENDALE MT	-	-	-	X	-	-	-	-	-	-	-	6	0.17	
COTTONWOOD CREEK NEAR TINTAKE MT	-	-	-	X	-	-	-	-	-	-	-	5	0.20	
BEAVER CREEK AT WIRAUX MT	-	-	-	X	XX	-	-	XX	-	-	-	12	0.17	
SOUTHERN CREEK NR DECKER, MT.	-	-	-	-	-	-	XX	-	-	-	-	9	0.11	
ROSEBUD CREEK AT KIRRY MT	-	-	-	-	XX	-	-	-	-	-	-	7	0.14	
ROSEBUD CREEK NEAR COLSTRIP, MT.	-	-	-	-	XX	XX	XX	X	-	-	-	9	0.44	
ROSEBUD CREEK AT MOUTH, NEAR ROS	-	-	-	XX	-	XX	XX	Y	-	-	-	6	0.17	
FAST FORK ARMFIELD CREEK NEAR COL	-	-	-	X	-	-	-	-	-	-	-	9	0.11	
ARMFIELD CREEK NEAR FORSYTH, MT.	-	-	-	XX	-	-	-	-	-	-	-	5	0.20	
BIG SAND CI. AT WY-MONT STATE LINE	-	-	-	-	-	-	0	-	-	-	-	13	0.23	
CLARKS FORK YELLOWSTONE RIVER NEAR BELFR	0	-	-	XX	X	-	-	-	-	-	-	7	0.43	
BIG MUDDY CREEK NEAR ANTIFLOPP MT	-	-	-	XX	XX	-	-	-	-	-	XX	11	0.36	
POPLAR RIVER AT INTERNATIONAL BO	-	-	-	XX	XX	-	0	-	-	-	-	9	0.13	
POPLAR RIVER NEAR SCOBY	-	-	-	XX	X	-	-	-	-	-	-	11	0.18	
POPLAR RIVER ABOVE WEST FORK, NEA	-	-	-	XX	XX	-	-	-	-	-	-	12	0.17	
POPLAR RIVER NEAR POPLAR, MT.	-	-	-	XX	XX	-	-	-	-	-	-	12	0.17	
WEST FORK POPLAR RIVER NEAR BRED	-	-	-	XX	XX	-	-	-	-	-	-	12	0.17	
EAST POPLAR RIVER AT INTERNATIO	-	-	-	X	-	-	-	-	-	-	-	14	0.07	
FAST FORK POPLAR RIVER NEAR SCOB	-	-	-	X	X	-	-	-	-	-	-	12	0.17	
ROCK CREEK BELOW HORSE CREEK, NE	-	-	-	XX	XX	-	-	-	-	-	-	11	0.18	
BEAVER CREEK AT INTERNATIONAL BOUNDARY	-	-	-	XX	-	-	-	-	-	-	-	4	0.25	
REDWATER RIVER AT CIRCLE, MT.	-	-	-	XX	-	-	-	X	-	-	-	12	0.17	
REDWATER RIVER NEAR VIDA, MT.	-	-	-	XX	-	-	-	X	-	-	-	12	0.17	
RAILROAD CREEK NEAR OSMOGO MT	-	-	-	X	XX	-	0	-	-	-	-	8	0.25	
MILK RIVER AT NASHUA, MT.	-	-	-	X	XX	X	0	-	-	-	-	12	0.13	
CROW ROCK CREEK NEAR COHAGEN MT	-	-	-	XX	-	-	-	-	-	-	-	4	0.25	
BOXELDER CREEK NEAR ROCKY BOY MT.	-	-	-	Y	-	-	-	X	-	-	-	4	0.50	
NEILSON CREEK NEAR VAN NORMAN, MT.	-	-	-	XX	-	-	-	-	-	-	-	5	0.20	
MUSSEL SHELL RIVER NEAR ROUNDUP,	-	-	-	-	XX	XX	-	-	-	-	-	14	0.21	
MUSSEL SHELL RIVER AT MOSBY, MT.	-	-	-	XX	-	XX	XX	-	-	-	-	13	0.23	
CLARK FORK BELOW MESSOURA, MT.	-	-	-	-	-	-	-	-	-	X	12	0.08		
00650 T P04	-	-	-	-	-	-	-	-	-	-	-	-	-	
*****	-	-	-	-	-	-	-	-	-	-	-	-	-	
MISSOURI RIVER AT VIRGEME, MT.	-	-	-	-	-	-	XX	-	-	-	-	2	0.33	
MISSOURI RIVER NEAR LANDUSKY, MT	-	-	-	-	-	-	XX	Y	-	-	-	3	0.67	
MISSOURI RIVER NEAR CULBERTSON,	-	-	-	-	-	-	XX	XX	-	-	-	2	1.00	

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%
 X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
 XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

NAME	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OWS	EXCEEDENCE	PROBABILITY
	-	-	-	-	-	-	-	-	-	-	-	-	-	
YELLOWSTONE RIVER AT LAUREL, MT.	-	-	-	-	-	X	-	-	-	-	-	5	0.40	
YELLOWSTONE RIVER AT HILLINGS MT	-	-	-	-	-	XX	-	-	-	-	-	2	0.33	
YELLOWSTONE RIVER AT HUNTFY, MT	-	-	-	-	-	0	-	-	-	-	-	5	0.20	
YELLOWSTONE RIVER AT FORSYTH, MT	-	-	-	-	-	0	-	-	-	-	-	3	0.33	
YELLOWSTONE RIVER NEAR MILES CITY, MT.	-	-	-	-	-	X	-	-	-	-	-	6	0.33	
YELLOWSTONE RIVER NEAR STONYEY, MT.	-	-	-	-	-	X	-	-	-	-	-	6	0.83	
POWDER RIVER AT MOORHEAD, MT.	-	-	-	-	-	X	XX	XX	-	-	-	2	1.00	
POWDER RIVER NEAR LOCATE, MT.	-	-	-	-	-	XX	0	XX	-	-	-	3	1.00	
W12PAH CREEK AT OLIVE, MT.	-	-	-	-	-	-	-	-	X	-	-	2	0.50	
OTTER CREEK AT ASHLAND, MT.	-	-	-	-	-	-	0	-	-	-	-	1	1.00	
MUSTER CREEK NEAR KINSEY MT	-	-	-	-	-	XX	-	-	-	-	-	2	0.50	
GLENDALE CREEK NEAR GLENDALE MT	-	-	-	-	-	-	-	XX	-	-	-	3	0.67	
SQUIRREL CREEK NEAR DECKER, MT.	-	-	-	-	-	0	XX	-	-	-	-	2	1.00	
ROSEBUD CREEK NEAR COALSTRIP, MT.	-	-	-	-	-	XX	XX	-	-	-	-	2	1.00	
ROSEBUD CREEK AT MOUTH, NEAR ROS	-	-	-	-	-	XX	XX	-	-	-	-	2	1.00	
BIG SAND CI. AT WY-MONT STATE LINE	-	-	-	-	-	0	0	-	-	-	-	3	0.67	
POPULAR RIVER NEAR SCOBERRY	-	-	-	-	-	X	-	-	-	-	-	3	0.33	
POPULAR RIVER NEAR POPULAR, MT.	-	-	-	-	-	XX	-	-	-	-	-	7	0.14	
EAST POPULAR RIVER AT INTERNATIO	-	-	-	-	-	X	-	-	-	-	-	2	0.50	
FAST FORK POPULAR RIVER NEAR SCOB	-	-	-	-	-	X	-	-	-	-	-	2	1.00	
MILK RIVER AT NASHUA, MT.	-	-	-	-	-	XX	X	-	-	-	-	4	0.25	
NELSON CREEK NEAR VAN NORMAN, MT.	-	-	-	-	-	XX	-	-	-	-	-	2	0.50	
MUSSELSHELL RIVER NEAR ROUNDUP,	-	-	-	-	-	-	-	XX	-	-	-	2	0.50	
MUSSELSHELL RIVER AT MOSBY, MT.	-	-	-	-	-	-	-	XX	-	-	-	2	0.50	

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10300 - RESIDUE

MISSOURI RIVER NEAR LANDUSKY, MT	-	-	-	-	-	X	-	-	-	-	-	10	0.20	
MISSOURI RIVER BELOW FORT PECK	-	-	-	-	-	0	0	X	0	0	0	12	0.67	
MISSOURI RIVER NEAR CULBERTSON,	-	-	-	-	-	0	0	X	X	0	0	12	0.83	
YELLOWSTONE RIVER AT HUNTFY, MT	-	-	-	-	-	XX	0	0	0	0	0	15	0.20	
YELLOWSTONE RIVER NEAR MILES CITY, MT.	-	-	-	-	-	X	X	X	X	-	-	17	0.47	
YELLOWSTONE RIVER NEAR STONYEY, MT.	-	-	-	-	-	X	X	X	X	-	-	21	0.62	
POWDER RIVER NEAR LOCATE, MT.	-	-	-	-	-	XX	XX	XX	XX	-	-	11	1.00	
TONGUE RIVER AT MILES CITY, MT.	-	-	-	-	-	X	XX	X	-	-	-	11	0.73	
MUSTER CREEK NEAR KINSEY MT	-	-	-	-	-	X	XX	X	-	-	-	4	0.75	
CUSTER CREEK NEAR KINSEY MT	-	-	-	-	-	XX	XX	X	-	-	-	4	0.75	
O'FALLON CREEK NEAR ISMAY, MT.	-	-	-	-	-	XX	XX	0	X	XX	XX	12	1.00	
CLEAR CREEK NEAR HOYT MT	-	-	-	-	-	XX	0	XX	XX	XX	XX	5	1.00	
UPPER SEVENMILE CREEK NEAR LINDSAY MT	-	-	-	-	-	XX	XX	XX	XX	-	-	4	1.00	
DEER CREEK NEAR GLENDALE MT	-	-	-	-	-	0	XX	XX	XX	-	-	5	1.00	
RIGHORN RIVER AT BIGHORN, MT.	-	-	-	-	-	X	X	X	XX	-	-	11	1.00	
POPULAR RIVER NEAR SCOBERRY	-	-	-	-	-	X	X	X	X	-	-	1	1.00	
POPULAR RIVER ABOVE WEST FORK, NEA	-	-	-	-	-	-	-	-	-	XX	-	1	1.00	
POPULAR RIVER NEAR POPULAR, MT.	-	-	-	-	-	Y	-	-	-	-	-	1	1.00	
WEST FORK POPULAR RIVER NEAR BREED	-	-	-	-	-	-	-	-	-	X	-	1	1.00	
FAST POPULAR RIVER AT INTERNATIO	-	-	-	-	-	-	-	-	-	X	-	1	1.00	
FAST FORK POPULAR RIVER NEAR SCOB	-	-	-	-	-	-	-	-	-	X	-	1	1.00	
ROCK CREEK BELOW HORSE CREEK, MT	-	-	-	-	-	XX	X	X	X	XX	XX	11	0.82	
MILK RIVER AT NASHUA, MT.	-	-	-	-	-	XY	X	X	X	XY	XY	12	0.83	

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%

X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	ANG	SEP	OCT	NOV	DEC	MO.	EXCERIENCE OBS
	XX	XX	XX	XX	XX	X	XX	PROBABILITY						
CROW ROCK CREEK NEAR COHAGEN MT. MUSSELMILK RIVER AT MOSBY, MT.														0.75
70301 DISS SOI, *****														1.00
MISSOURI RIVER NEAR LANDISKY, MT.						X								0.20
MISSOURI RIVER BELOW FORT PECK D.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.93
MISSOURI RIVER NEAR CHUBERTSON.	0	0	0	0	0	X	0	0	0	0	0	0	0	0.83
YELLOWSTONE RIVER AT HUNTLF.	XY	0	0											0.20
YELLOWSTONE RIVER AT FORSYTH, MT.	X	0	0	X	X	0			0					0.45
YELLOWSTONE RIVER NEAR MILES CITY, MT.	Y	0	X	X	0									0.64
YELLOWSTONE RIVER NEAR TERRY, MT.	X	X	X	X	X			0		0	X	11		0.73
YELLOWSTONE RIVER NEAR SIDNEY, MT.	Y	X		X	X				0	0	X	X	12	0.67
BURNS CREEK NEAR SAVAGE, MT.	XY	YY			XX	XX	XX	XX	XY					0.78
POWDER RIVER AT MOORHEAD, MT.	XX	11	1.00											
POWDER RIVER NEAR LOCATE, MT.	XX	YY	XX	11	1.00									
MIZPAH CREEK AT OLIVE, MT.			XX				6	1.00						
MIZPAH CREEK NEAR MIZPAH, MT.					XX	XX	XX	XX	XX			XX	R	0.98
TONGUE RIVER AT STATE LINE NR DECKER RD.	XY	X	0	X				0	0	0			10	0.70
TONGUE RIVER AT TONGUE R DAM, NE	X	X	X	X	X				0			X	0	0.57
TONGUE RIVER AT HANGING WOMAN C.	X		X	X	X								0	0.56
TONGUE R AT BIRNEY DAY SCHOOL, BR NR BIRN												X	3	0.67
TONGUE R AT BRANDENBERG BRIDGE,		X	X	X	X							X	8	0.75
TONGUE RIVER AT MILES CITY, MT.	Y	X		XX	X						X	X	11	0.64
PUMPKIN CREEK NEAR DOESCH, MT.			XX	XX	XX	XX	XX	XX					6	1.00
PUMPKIN CREEK NEAR MILES CITY, MT.				XX	XX	XX	XX	XX				XX	R	0.75
OTTER CREEK NEAR OTTER MT	XX	0	1.00											
OTTER CREEK BELOW FIFTEENMILE CREEK NR O	XX	0	1.00											
OTTER CREEK AT ASHLAND, MT.	XX	X	XX	0	1.00									
HORN CREEK NEAR ASHLAND MT	XX		XX	R	1.00									
COW CREEK NEAR COALSTRIP MT											XX	XX	2	1.00
PRATRIE DOG CREEK NEAR BIRNEY MT						X		XX	XX	XX			5	1.00
FAST TRAIL CREEK NEAR OTTER MT					XX								3	1.00
MUSKRAT CREEK NEAR KIMSEY MT					0	XX			X				4	0.75
CUSTER CREEK NEAR KIMSEY MT					XX	XX			X				4	0.75
CHERRY CREEK NEAR TERRY MT					XX	XX	XX						3	1.00
O'FALLON CREEK NEAR TSHAY, MT.	XY	YY	0	X	XX	12	1.00							
CLEAR CREEK NEAR HOYT MT	XX	0	XX	6	1.00									
UPPER SEVENMILE CREEK NEAR LTDNSAY MT	XX	4	1.00											
GLENDALE CREEK NEAR GLENDALE MT	X	0	XX					XX	XX	XX			6	1.00
DEER CREEK NEAR GLENDALE MT		XX	XX	XX	XX			XX					5	0.80
COTTONWOOD CREEK NEAR TONTAKE MT		X	XX	XX	XX	XX	XX	XX					6	1.00
BEAVER CREEK AT WIRAUX MT	XY	XX	X	0	XX	12	1.00							
HANGING WOMAN CREEK AT HORSE CREEK NR PI	XY	XX	0	1.00										
HANGING WOMAN CREEK NEAR BIRNEY.	XY	XX	0	1.00										
SQUIRKEL CREEK NR DECKER, MT.	X	X	0	X	X	X	X	XX	XX	XX	XX	XX	0	1.00
ROSEFRUIT CREEK AT KTRBY MT	X	0				0	0	X					7	0.71
ROSEFRUIT C AT RESERVATION BOUNDARY NEAR K													0	1.00
ROSEFRUIT CREEK NEAR COALSTRIP, MT.	YY		X	X	X	X	X	X	X				0	1.00
ROSEFRUIT CREEK AT MOUTH, NEAR RDS	YY		X	X	X	XY		XY	XY				0	0.89

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%

X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDED CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	NO.	EXCEEDENCE PROBABILITY
	-	-	-	-	-	-	-	-	-	-	-	-	NO.	-
FAST FORK ARMEILS CREEK NEAR COL			XX	XX	XX				XX		XX	XX	5	1.00
ARMEILS CREEK NEAR FORSYTH, MT.			X	XX	XX	XX	XX	XX	XX	XX	XX	XX	6	1.00
SARPY CREEK NEAR HYSHAM, MT.			XX	X	XX		XX	XX	XX	XX	XX	XX	7	1.00
BIGHORN RIVER NEAR ST. XAVTER, MT	0	X	X	X	X	0	X	X	0	0	X	11	1.00	
BIGHORN RIVER AT BIGHORN, MT.	0	X	X	X	X	X	X	X	X	X	X	X	11	1.00
LITTLE BIGHORN RIVER NEAR HARDIN	X	X	X	XX	X	0	0	X	0	0	0	11	0.91	
FLY CREEK AT POMPEYS PILGRIM, MT.	XX	XX	XX	XX	XX	X	Y	X	Y	X	XX	11	1.00	
BIG SAND CREEK AT WY-MONT STATE LINE			0										6	0.20
BIG MUDDY CREEK NEAR ANTELOPE MT						XX		XX		XX	XX	XX	7	0.71
POPLAR RIVER AT INTERNATIONAL RD						X	X	XX	XY	XX	XY	XX	11	0.73
POPLAR RIVER NEAR SCOBY	XY					X	X	XX	XX	XX	XX	XX	9	0.67
POPLAR RIVER ABOVE WEST FORK NEA						X	X	XX	XX	XX	XX	XX	11	0.82
POPLAR RIVER NEAR POPLAR, MT.	XY	YY				X	X	XX	XX	XX	XX	XX	12	0.83
WEST FORK POPLAR RIVER NEAR RED	X					X	X	0	X	X	Y	X	12	0.83
EAST POPLAR RIVER AT INTERNATIONAL	XY	YY	X	X	0	Y	XX	Y	X	X	XX	14	0.93	
WEST FORK POPLAR RIVER NEAR SCOB			X	X	X	X	X	XX	X	XX	XX	12	0.92	
DUCK CREEK BELOW HORSE CREEK, MT	XY					X	X	XX	XX	XX	XX	XX	11	0.82
"CACHERN CREEK AT INTERNATIONAL						0							3	0.73
BEAVER CREEK AT INTERNATIONAL BOUNDARY							XX		XX		XX	XX	4	0.75
REDWATER RIVER AT CIRCLE, MT	XY	YY		X	XX	YY	XY	XX	XX	XX	XX	XX	12	0.92
REDWATER RIVER NEAR VIDA, MT.	XY	YY	X		XX		XX	YY	XX	YY	XX	XX	11	0.91
PRAIRIE FISH CREEK NEAR USWFGO MT	XY				XX	XX	XX	XX	XX				8	0.75
MILK RIVER AT JUNEREPG BRIDGE NEAR SACO	XY	XX	XX		0	0	X		X	X	XX	XX	11	0.91
MILK RIVER AT NASHUA, MT.	XY	XX			0	XX	X	X	X	XX	XX	XX	12	0.83
CROW ROCK CREEK NEAR COHAGEN MT						X	XX	XX					4	0.74
NEILSON CREEK NEAR VAN NORMAN, MT						X	XX	XX					5	0.80
TIMBER CREEK NEAR VAN NORMAN, MT						XX	XX	XX	XX	XX	XX	XX	6	1.00
HAIL BREED CREEK NEAR KLEIN MT	XY	YY	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
FAST PARROT CREEK NEAR ROUNDUP MT						XX	XX	XX	XX	XX	XX	XX	8	1.00
WEST PARROT CREEK NEAR ROUNDUP MT	X	X	X	X	X	XX	Y	XX	XX	XX	XX	XX	12	1.00
FATTIG CREEK NEAR DELTA MT	XY	YY	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
MUSSIFISHILL RIVER NEAR ROUNDUP,	XY	YY	X	XX	X	X	X	XX	XX	XX	XX	XX	14	0.93
MUSSIFISHILL RIVER AT MOSBY, MT.	XY	YY	XX	XX	XX	X	X	XX	XX	XX	XX	XX	13	0.92
SUN RIVER NEAR VAUGHN, MT.						X		0	X	11			4	0.45
MUDDY CREEK NEAR VAUGHN, MT.	X	X	X	XX				X	X		X	10		0.70
MUDGY CREEK AT VAUGHN, MT.	Y	X	X	XX								9		0.56

00095 CONDUCTIVITY

MISSOURI RIVER NEAR LANDISKY, MT	0	0	0	0	0	0	0	0	0	0	0	0	10	0.10
MISSOURI RIVER BELOW FORT PECK	0	0	0	0	0	0	0	0	0	0	0	0	12	0.25
MISSOURI RIVER NEAR CUMBERTSON,						0	0			0	0	0	26	0.15
YELLOWSTONE RIVER AT FORSYTH, MT	0	0	0	X									11	0.36
YELLOWSTONE RIVER NEAR MILES CITY, MT.	0	0	0	X									10	0.37
YELLOWSTONE RIVER NEAR TERRY, MT	X	X	0	X	0								11	0.45
YELLOWSTONE RIVER NEAR STDMFY, MT.	0	0	0	X						0	0	0	20	0.38
BURNS CREEK NEAR SAVAGE, MT.	XY	YY			XX	YY	XX	XX	XX				0	0.78
POWDER RIVER AT MOORHEAD, MT.	XY	YY	XY	XX	XX	YY	XX	XX	YY	XX	YY	XX	12	1.00
POWDER RIVER NEAR LOCATE, MT.	XY	YY	XX	XX	XX	YY	XX	XX	YY	XX	XX	XX	11	1.00
WIZPAH CREEK AT OLIVE, MT.	XY	XX	XX	XX	XX	XX							6	1.00

LEGEND: 0- EXCEEDED CRITERIA BY LESS THAN 15%
 X- EXCEEDED CRITERIA BY MORE THAN 15% & LESS THAN 95%
 XX- EXCEEDED CRITERIA BY MORE THAN 95%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO.	EXC/EDECE PROBABILITY
HIZPAH CREEK NEAR HIZPAH, MT.					XX	XX	XX	X	XX		XX	R	0.88	
TONGUE RIVER AT STATE LINE NR DECKER MDN	X	0	0	X						X	11		0.45	
TONGUE RIVER AT TONGUE R DAM, NE	X	X	X	0						0	0	0	0.56	
TONGUE RIVER BI HANGING WOMAN C.	0		X	X	X						0	0	0.56	
TONGUE R AT BTRNEY DAY SCHOOL RR NR BPN										0	X	1	0.67	
TONGUE R BI BRANDENBERG BRIDGE,	X	X	X	X					X		X	R	0.75	
TONGUE RIVER AT MILES CITY, MT.	X	X	X	X					0	X	A	11	0.64	
PUMPKIN CREEK NEAR GLESECH, MT.			XX	XX	XX	XX	XX					6	1.00	
PUMPKIN CREEK NEAR MILES CITY MT				XX	XX	XX	XX			XX	XX	R	0.75	
OTTER CREEK NEAR OTTER MT		XX	XX	XX	XX	XX	XX		XY	XX		0	1.00	
OTTER CREEK BELOW FIFTEENMILE CREEK NR O	XX		XX	XX		0	1.00							
OTTER CREEK AT ASHLAND, MT.	XX	X	XX	XX	XX	XX	XX		XY	XX		0	1.00	
HOME CREEK NEAR ASHLAND MT		XX	XX	XX	XX	XX	XX		XX	XX		0	1.00	
COW CREEK NEAR COLSTRIP MT									XX	XX		2	1.00	
PRATRIE DOG CREEK NEAR BTRNEY MT						X	X	X	XX			6	1.00	
MUSTER CREEK NEAR KIMSPY MT					0	XX		X				4	0.75	
CUSTER CREEK NEAR KIMSPY MT					XX	XX		X				4	0.75	
CHERRY CREEK NEAR TERRY MT					XX	XX	XX					3	1.00	
O'FALLON CREEK NEAR TS'WAY, MT.	XX	XX			X	XX	XX	XX	XX	XX	XX	12	0.92	
CIFAR CREEK NEAR HOYT MT	XX				XX	XX	XX					5	0.90	
UPPER SEVENMILE CREEK NEAR LTNDAY MT			X	XX	XX	XX						4	1.00	
GLENDAIVE CREEK NEAR GLENDAIVE MT			X		XX			X	XX	XX	XX		5	0.86
DEFER CREEK NEAR GLENDAIVE MT				XX	XX	XX		XX					5	0.90
COTTONWOOD CREEK NEAR TNTAKE MT			X	X	XX	XX	XX	XX				6	1.00	
BEAVER CREEK AT WIBAUX MT	XX	XX	X	0	XX	XX	XX	XX	XY	XX	XX	12	1.00	
HANGING WOMAN CREEK BI HORSE CREEK NR RI	XX		XY	XX	XX	6	1.00							
HANGING WOMAN CREEK NEAR BTRNEY.		XX	XX	XX	XX	XX	XX		XY	XX	XX	0	1.00	
SOUTERRI, CREEK NR DECKER, MT.		X	X	0	X	X	X		XY	XX	XX	0	1.00	
ROSEBUD CREEK AT KTRAY MT		X	0	0	0	0	0		0		X	2	1.00	
ROSEBUD C AT RESERVATION BOUNDARY NEAR K									0					
ROSEBUD CREEK NEAR COLSTRIP, MT.	X		X	X	X	X	Y	X	Y	X	X	0	1.00	
ROSEBUD CREEK AT MOUTH, NEAR ROS	XX		XX	X	X	X	X		XX	XX	X	0	0.89	
FAST FORK ARMELLS CREEK NEAR COL			X	XX	XX	XX				XX	XX	6	1.00	
ARMELLS CREEK NEAR FORSYTH, MT.			X	XX	XX	YY		XX	XX	YY	XX	0	1.00	
SARPY CREEK NEAR HYSHAW, MT.	XX	0	XX	XX	YY	XX	XX		XY	XX	XX	0	1.00	
BIGHORN RIVER NEAR ST. XAVTER, MT	0	0	0	X	0	0	0	0	0	0	0	10	1.00	
BIGHORN RIVER AT BIGHORN, MT.	0	0	X	X	X	X	X		0	0	X	11	1.00	
LITTLE BIGHORN RIVER NEAR HARDIN	Y	X	Y	XX	X				0	0	0	11	0.64	
FLY CREEK AT POMPEYS PLATE, MT.	XX	XX	X	XX	XX	X	Y	X	0	0	XX	11	1.00	
BIG SAND CL AT WY-MONT STATE LYN				0								5	0.20	
BIG MUDDY CREEK NEAR ANTelope, MT						XX		XX	XX	YY	XX	7	0.71	
POPLAR RIVER AT INTERNATIONAL, RD						X	X	XX	XX	YY	XX	11	0.73	
POPLAR RIVER NEAR SCOH						X	X	XX	XX	YY	XX	10	0.70	
POPLAR RIVER ABOVE WEST FORK, NFA						X	X	XX	XX	YY	XX	11	0.82	
POPLAR RIVER NEAR POPLAR, MT.	XX	XX				X	X	XX	XX	YY	XX	12	0.83	
WEST FORK POPLAR RIVER NEAR BRE						X	X	0	X	X	X	12	0.93	
EAST POPLAR RIVER AT INTERNATIONAL	Y	X	X	X	X		Y	X	Y	X	X	14	0.86	
FAST FORK POPLAR RIVER NEAR SCOH						X	X	X	XX	X	XX	12	0.92	
ROCK CREEK BELOW HORSE CREEK, NE	Y					X	X	X	XX	XX	XX	11	0.82	
BEAVER CREEK AT INTERNATIONAL BOUNDARY							YY		XX		XX	8	0.75	

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
 X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
 XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TARIFF OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO.	EXCEDIENCE PROBABILITY
REDWATER RIVER AT CIRCLE, MT.	XX	XX		X	XX	12	0.02							
REDWATER RIVER NEAR VIDIA, MT.	XX	XX	-	X	XX	12	0.62							
RAIRIE FIK CREEK NEAR OSHFEGO MT	XX				XX	XX	XX	XX	XX				8	0.75
MILK RIVER AT JUNEREG BRIDGE NEAR SACO	XX	XX	XX		O	Y	X	X	X	XX	XX	XX	12	0.83
MILK RIVER AT NASHUA, MT.	XX	XX		O	X	Y	X	X	X	XX	XX	XX	18	0.89
CROW ROCK CREEK NEAR COHAGEN MT				X	XX	YY							4	0.75
NELSON CREEK NEAR VAN MORNAN, MT.				X	XX	XX	XX						5	0.90
TIMMER CREEK NEAR VAN MORNAN, MT				XX	XX	XX	XX	XX	XX				7	1.00
HALF BREED CREEK NEAR KILFIN MT	XX	XX	X	XX	XX	XX	XX	XX	Y	XX	XX	X	12	1.00
FAST PARROT CREEK NEAR ROUNDUP MT					XX	YY	XX	XX	XX	XX	XX	XX	8	1.00
WEST PARROT CREEK NEAR ROUNDUP MT			X	X	Y	X	X	Y	X	Y	X	X	12	1.00
FATTIG CREEK NEAR DELTA MT	XX	12	1.00											
MUSSFLISHILL RIVER NEAR ROUNDUP	XX	X	X	XX	X	O		X	X	YY	XX	XX	14	0.86
MUSSFLISHILL RIVER AT MOSBY, MT.	XX	XX	X	XX	XX	X		X	XX	YY	XY	XX	22	0.61
SUN RIVER NEAR VAUGHN, MT.				X					O	O	O	O	11	0.45
MUDDY CREEK NEAR VAUGHN, MT.		X	X	X	XX				O	X		X	10	0.70
MUDDY CREEK AT VAUGHN, MT.		X	X	X	XX				O	X		X	10	0.70

00070 TURB

YELLOWSTONE RIVER AT LAUREL, MT					XX								7	0.14
YELLOWSTONE RIVER AT HUNTLEY, MT					X								7	0.14
YELLOWSTONE RIVER NEAR MILES CITY, MT.					XX	XX							8	0.38
YELLOWSTONE RIVER NEAR STODNEY, MT.					XX	XX							8	0.38
TONGUE RIVER AT STATE LINE NR DECKER MON					X								8	0.13

70299 RFS-SUSP

YELLOWSTONE RIVER AT LAUREL, MT					XX		X	YY					16	0.25
YELLOWSTONE RIVER AT HUNTLEY, MT					O		O	Y					15	0.20
YELLOWSTONE RIVER NEAR MILES CITY, MT.					XX	X	O	XX					16	0.31
YELLOWSTONE RIVER NEAR STODNEY, MT.					XX	XX	XX	YY	X		XX		17	0.59

80154 SUSP SFD

MISSOURI RIVER AT TOSTON, MT.	X	XX			XX	XX					XX	12	0.42	
MISSOURI RIVER AT VIRGELINE, MT.		X	XX		X	YY						12	0.33	
MISSOURI RIVER NEAR CHIHERSON,		X		X	XX	XX	YY	XX	X	X	X	X	12	0.83
ST MARY RIVER AT INTERNATIONAL BOUNDARY				O	X		O						31	0.27
YELLOWSTONE RIVER NEAR LIVINGSTON					XX	YY							9	0.22
YELLOWSTONE RIVER AT HUNTLEY, MT						X	YY	X					10	0.30
YELLOWSTONE RIVER NEAR MILES CITY, MT.							YY	Y					6	0.33
YELLOWSTONE RIVER NEAR TERRY, MT						XX	XX	YY					9	0.33
YELLOWSTONE RIVER NEAR STODNEY, MT.						XX	XX	YY					7	0.33
BURNS CREEK NEAR SAVAGE, MT.						X	XX						9	0.33
POWDER RIVER AT MOORHEAD, MT.	XX	X	XX	XX	XX	YY	XX	YY					9	1.00
POWDER RIVER NEAR LOCATE, MT.		X	X		XX	XX	YY	XX	YY				7	1.00
MI7PAH CREEK NEAR MI7PAH, MT.					XX	YY	XX	X	YY				7	0.71
TONGUE RIVER BI. HANGING WOMAN C.									XX				9	0.11
TONGUE RIVER BI. BRANDENBERG BRIDGE.						XY							7	0.43

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
 X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
 XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MJL	EXCEDENCE PROBABILITY
	---	---	---	---	---	---	---	---	---	---	---	---	OBS	
PUMPKIN CREEK NEAR MILES CITY MT				XX	X		XX	XX					8	0.63
OTTER CREEK NEAR OTTER MT									X				2	0.11
OTTER CREEK BELOW FIFTEENMILE CREEK NR O				X			X					0	0	0.71
OTTER CREEK AT ASHLAND, MT.				X			XX						0	0.22
HOME CREEK NEAR ASHLAND MT				0			X						0	0.22
COW CREEK NEAR COULTRIP MT												XY	1	1.00
RAIRIE DOG CREEK NEAR RIRNEY MT					XX								14	0.14
WUSTER CREEK NEAR KINSEY MT				XX	XX	XX		XX					4	1.00
CUSTER CREEK NEAR KINSEY MT				XX	X		XX						4	0.75
O'FALLON CREEK NEAR ISHAY, MT.	0			XX	0	X	X	0	X	X		X	14	0.71
GLENDIVE CREEK NEAR GLENDIVE MT				XX	XX	X	XX	XX	XX	X			7	0.96
DEER CREEK NEAR GLENDIVE MT				XX					X				6	0.40
BEAVER CREEK AT WIRAUX MT				XX				X					12	0.17
HANGING WOMAN CREEK AT HORSE CREEK NR RT					XX							X	0	0.22
HANGING WOMAN CREEK NEAR RIRNEY,								XX					0	0.22
SQUIRREL CREEK NR DECKER, MT.				X	XX		X	X					0	0.44
ROSEBUD CREEK AT KIRBY MT				XX	XX	XX	0	0					7	0.86
ROSEBUD CREEK NEAR COULTRIP, MT.					XX	XX	XX	XX	XX				0	0.56
ROSEBUD CREEK AT MOUTH, NEAR ROS				XX	XX	XX	XX	X					0	0.89
ARMILLS CREEK NEAR FORSYTH, MT.				XX	X		0						0	0.23
SARPY CREEK NEAR HYSHAM, MT.				XX	X		X	X					0	0.44
RIGHORN RIVER AT BTGHORN, MT.					X	0	0						0	0.33
BIG SAND C. AT WY-MONT STATE LINE							X	XX	X				6	0.50
BIG MUDDY CREEK NEAR ANTFLDGE MT					XX							0	0	0.25
POPLAR RIVER ABOVE WEST FORK, NEA					XX								0	0.13
POPLAR RIVER NEAR POPLAR, MT.					XX								11	0.09
WEST FORK POPLAR RIVER NEAR BRFD					0								0	0.11
FAST FORK POPLAR RIVER NEAR SCOB												X	11	0.09
ROCK CREEK BELOW HORSE CREEK, NE					X	X		0	X				0	0.44
REDWATER RIVER AT CIRCLE, MT.								XX	X	0			10	0.30
REDWATER RIVER NEAR VIDA, MT.					XY	XX	X	X	0				12	0.42
RAIRIE EIK CREEK NEAR OSWEGO MT	Y				XX	XX			0	Y			0	0.63
MILK RIVER AT NASHUA, MT.					XX	XX	XX	X	X	X		X	12	0.67
LITTLE PEOPLES CREEK NEAR HAYS,					XX		X						4	0.50
CHOW ROCK CREEK NEAR COHAGEN MT					X		X	0					4	0.75
NELSON CREEK NEAR VAN NORMAN, MT.					XX	XX	0	X					5	0.80
TIMBER CREEK NEAR VAN NORMAN, MT					XX	XX	X	XX	0			X	8	0.75
MUSSFLSHELL RIVER NEAR ROUNDUP,	Y				XX	XX	XX	XX	XX	0	0		14	0.71
MUSSFLSHELL RIVER AT MOSBY, MT.	0				XX	XX	XX	XX				X	12	0.54
MUDDY CREEK NEAR VAUGHN, MT.					XX								1	1.00
MUDDY CREEK AT VAUGHN, MT.						XX							2	1.00
CLARK FORK BELOW MTSOUWA, MT.						XX	X						12	0.17
FLATHEAD RIVER AT COLUMBIA FALLS							X						11	0.09
00940 CHLORIDE														

YELLOWSTONE RIVER AT HUNTFY, MT		XX											11	0.04
POPLAR RIVER NEAR POPLAR, MT.		XY	X										12	0.25
00945 SULFATE														

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
 X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 95%
 XX- EXCEEDS CRITERIA BY MORE THAN 95%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	MIL. OHS	EXCEEDENCE PROBABILITY
MISSOURI RIVER NEAR LANDISKY, MT					0		X	0	0				10	0.10
MISSOURI RIVER BELOW FORT PECK, MT							X	X					12	0.25
MISSOURI RIVER NEAR CULBERTSON,							X	X					12	0.33
YELLOWSTONE RIVER AT HUNTER, MT	XX												11	0.04
YELLOWSTONE RIVER AT FORSYTH, MT	X		0	X									11	0.30
YELLOWSTONE RIVER NEAR MILES CITY, MT.	X	0	X										11	0.36
YELLOWSTONE RIVER NEAR TERRY, MT	X	X	0	X	X								11	0.55
YELLOWSTONE RIVER NEAR STONY, MT.	X	0		X	XX								0	0.78
BURNS CREEK NEAR SAVAGE, MT.	XX	XX		XX	XX	XX	X	XX	XX				12	1.00
POWDER RIVER AT MOORHEAD, MT	XX	XX	XX	XX	XX	XX	11	1.00						
POWDER RIVER NEAR LOCATE, MT.	XX	XX	XX	XX	XX	XX	6	1.00						
MIZPAH CREEK AT OLTVE, MT.				XX	XX	XX	XX	XX						0.88
MIZPAH CREEK NEAR MIZPAH, MT.				XX	XX	XX	XX	XX					0	0.10
TONGUE RIVER AT STATE LINE NR DECKER Mtn	XY				X								0	0.44
TONGUE RIVER AT TONGUE R DAM, NE			X	X	X								0	0.56
TONGUE RIVER HI. HANGING WOMAN C.	0		X	X	X								3	0.67
TONGUE R AT STANFORD SCHOOL RR NR BIRN										0	X	0	0.75	
TONGUE R HI. BRANDENBERG BRIDGE,			X	X	X	X								0.64
TONGUE RIVER AT MILES CITY, MT.	X	X		XX	X					0	X	X	11	1.00
PUMPKIN CREEK NEAR LOESCH, MT.				XX	XX	XX	XX	XX					6	0.75
PUMPKIN CREEK NEAR MILES CITY, MT				XX	XX	XX	XX	XX					0	1.00
OTTER CREEK NEAR OTTER MT	XX	XX	XX	XX	XX	XX	0	1.00						
OTTER CREEK RIVER FIFTEEN MILE CREEK NR 0	XX	XX	XX	XX	XX	XX	0	1.00						
OTTER CREEK AT ASHLAND, MT.			X	X	X	X	X	X	X	X	X	X	0	1.00
HOMME CREEK NEAR ASHLAND, MT			X	X	X	X	X	X	X	X	X	X	0	1.00
COW CREEK NEAR COLDSTRIP MT				XX	XX	XX	XX	XX					2	1.00
RAPIRE DOG CREEK NEAR RTRNFY MT					X	X	XX	XX	XX				6	1.00
FAST TRAIL CREEK NEAR OTTER MT					XX								3	1.00
HUSTER CREEK NEAR KINSFY MT					0	XX		Y					4	0.75
CUSTER CREEK NEAR KINSFY MT					XX	XX		Y					4	0.75
CHERRY CREEK NEAR TERRY MT					XX	XX	XX						3	1.00
DEFALION CREEK NEAR TSWAY, MT.	XY	XX	0	X	XX	XX	X	XX	XX	XX	XX	XX	12	1.00
CLEAR CREEK NEAR HOYT MT					XX	XX	XX						5	0.90
UPPER SEVENTH CREEK NEAR LINDSAY MT					XY	XX	XX						4	1.00
GLENDRIVE CREEK NEAR GLENDRIVE MT					X	0	XX						6	1.00
DEER CREEK NEAR GLENDRIVE MT					XX	XX	XX						5	0.80
COTTONWOOD CREEK NEAR TINTAKE MT					X	XX	XX	XX	XX				6	1.00
BEAVER CREEK AT WIBAUX MT	XY	YY	Y	X	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
HANGING WOMAN CREEK R. HORSE CREEK NR PI	XX	XX	XX	XX	XX	XX	0	1.00						
HANGING WOMAN CREEK NEAR HTRNFY.					XX	XX	XX	XX	XX	XX	XX	XX	0	1.00
SQUIRREL CREEK NR DECKER, MT.					X	Y	0	X	X	Y	X	X	0	0.89
ROSEBUD CREEK NEAR COLSTRIP, MT.					X	X	0	X	X	X	X	X	0	1.00
ROSEBUD CREEK AT MOUTH, NEAR ROS					X	XX	X	X	X	XX	XX	XX	0	0.89
FAST FORK ARMELLS CREEK NEAR COL					XX	XX	XX	XX					6	1.00
ARTELIS CREEK NEAR FORSYTH, MT.					0	XX	XX	XX	XX	XX	XX	XX	0	1.00
SARPY CREEK NEAR HYSHAH, MT.					XX	X	XX	XX	XX	XX	XX	XX	0	1.00
BIGHORN RIVER NEAR ST. XAVTER, MT	0	X	X	X	Y	X	0	X	Y	0			11	1.00
BIGHORN RIVER AT BIGHORN, MT.	0	X	X	XX	Y	X	Y	X	X	X	X	Y	11	1.00
LITTLE BIGHORN RIVER NEAR HARDIN	Y	X	X	XX	X	X							11	0.55
FLY CREEK AT POMPEYS PTLLAR, MT.	XY	XX	XY	XX	XX	XX	Y	X	X	X	X	XX	11	1.00

LEGEND: 0 - EXCEEDS CRITERIA BY LESS THAN 15%

X - EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 95%

XX - EXCEEDS CRITERIA BY MORE THAN 95%

TABLE 5. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO.	EXCEDIENCE OBS	PREDICTION PROBABILITY
BIG MUDDY CREEK NEAR ANTIFLOPE MT					XX			XX		XX	XX	XX	7	0.71	
POPLAR RIVER AT INTERNATIONAL RD						XY	X	XX	X	XX	XX	XX	11	0.45	
POPLAR RIVER NEAR SCOFFY			XY				X	X	X	X			9	0.44	
POPLAR RIVER ABOVE WEST FORK, NEA						0	0	X	X	X	Y	X	11	0.73	
POPLAR RIVER NEAR POPLAR, MT.	0	0						0	0	0	0	0	12	0.42	
EAST POPLAR RIVER AT INTERNATIONAL		X	X					X	X	0	X	X	14	0.57	
FAST FORK POPLAR RIVER NEAR SCOB								X	X	X	Y	X	12	0.58	
ROCK CREEK BELOW HORSE CREEK, NE			X					X	XX	XX	X	X	11	0.55	
MCFACHERN CREEK AT INTERNATIONAL						0							3	0.33	
BEAVER CREEK AT INTERNATIONAL, BOUNDARY							X		X			X	4	0.75	
REDWATER RIVER AT CIRCLE, MT.	XY	XX	0	XX	XY	YY	12	1.00							
REDWATER RIVER NEAR VIDA, MT.	XX	XX	X	XX	YY	XX	12	0.92							
RAIRIE FIK CREEK NEAR OSWEGO MT	XX			XX	XX	XX	XX	XX	XX				8	0.75	
MILK RIVER AT JUNERG BRIDGE NEAR SACO	XY	XX	XX				X	0	X	X	XX	XX	12	0.75	
MILK RIVER AT HASHUA, MT.	XX	XX				0	X	X	X	X	XX	XX	12	0.83	
CROW ROCK CREEK NEAR COHAGEN MT				X	XX	XX							4	0.75	
NEILSON CREEK NEAR VAN NORMAN, MT.				X	XX	XX	XX						5	0.80	
TIMHUR CREEK NEAR VAN NORMAN, MT				XX	XX	XX	XX	XX	XX				6	1.00	
HALF BREED CREEK NEAR KLEIN MT	XY	X	X	XX	XX	YY	X	X	XX	XX	XX	X	12	1.00	
FAST PARROT CREEK NEAR ROUNDUP MT				X	XX	8	1.00								
WEST PARROT CREEK NEAR ROUNDUP MT	X	X	X	X	X	X	X	X	X	X	X	X	12	1.00	
FATTIG CREEK NEAR DEPITA MT	XY	XX	XY	XX	XX	YY	XX	XX	XX	XX	XX	XX	12	1.00	
MUSSFLASHILL RIVER NEAR ROUNDUP,	XX	XX	X	XX	X	X	XX	XX	XX	XX	XY	XX	14	0.93	
MUSSFLASHILL RIVER AT MOSBY, MT.	XX	12	1.00												
SUN RIVER NEAR VAUGHN, MT.				X				0					11	0.18	
MUDY CREEK NEAR VAUGHN, MT.	0	0	X	XX								X	10	0.50	
MUDY CREEK AT VAUGHN, MT.	0	X	X	XX							0		9	0.56	

00720 CYANTOP

YELLOWSTONE RIVER AT HUNTFY, MT

XX 2 0.50

01034 CHROMIUM

POWDER RIVER NEAR LOCATE, MT.

XX

4 0.25

MUSTER CREEK NEAR KINSFY MT

XX

2 0.50

01042 COPPER

MISSOURI RIVER NEAR LANDISKY, MT

X

3 0.33

YELLOWSTONE RIVER AT LAUREL, MT.

XX

1 1.00

TONGUE RIVER AT LIVES CITY, MT.

XX

4 0.25

MUSTER CREEK NEAR KINSFY MT

XX

2 1.00

CUSTER CREEK NEAR KINSFY MT

XX

2 0.50

GLENDIVE CREEK NEAR GLENDIVE MT

XX

2 0.50

ROSEBUD CREEK AT MOUTH, NEAR RDS

X

2 0.50

BIGHORN RIVER AT BIGHORN, MT.

XX

4 0.25

POPLAR RIVER NEAR SCOFFY

X

2 0.50

POPLAR RIVER NEAR POPLAR, MT.

X

2 0.50

ROCK CREEK BELOW HORSE CREEK, NE

XX

2 0.50

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%

X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

YX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 5. RATE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	No. OHS	EXCEEDENCE PROBABILITY
PRAIRIE FLK CREEK NEAR OSWEGO MT					XX								2	0.50
MILK RIVER AT NASHUA, MT.					XX								1	0.33
NEILSON CREEK NEAR VAN NORMAN, MT.					O								2	0.50
MUSSFLUSHILL RIVER NEAR ROUNDUP,						X			X				3	0.33
MUSSFLUSHILL RIVER AT MOSBY, MT.							O						4	0.50
CLARK FORK BELOW MESSOULA, MT.							X						4	0.25
FLATHEAD RIVER AT COLUMBIA FALLS								XX					3	0.33
01051 T.FAD														

MUSTFR CREEK NEAR KINSEY MT						XX							1	1.00
01092 ZINC														

MUSTFR CREEK NEAR KINSEY MT					X	XX							2	1.00
GLENDALE CREEK NEAR GLENDALE MT						X							1	1.00
01027 CADMIUM														

MUSTFR CREEK NEAR KINSEY MT						X							2	0.50
ROCK CREEK BELOW HORSE CREEK, MT							X						2	0.50

W PROCESSING COMPLETE FOR REQUESTED PERIOD
W

Table 6. Water Quality Trends

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
											Zn
Missouri R blw Canyon Ferry Dam			D								
Missouri R at Virgelle				D			D				
Missouri R blw Ft Peck Dam	D	D		D	I	D	D	D		D	
Missouri R nr Culbertson			I (Kjeldahl) D (NO ₂ & NO ₃)				D	D		D	
St Mary R at Int'l Bdry										D	
Yellowstone R nr Livingston										D	
Yellowstone R at Billings				D				D		D	D _{Se}
Yellowstone R at Huntley					D*			D*			D
Yellowstone R at Forsythe				D			D			D	
Yellowstone R nr Miles City				D			D			D	
Yellowstone R nr Terry				D			D			D	
Yellowstone R nr Sidney	D										
Powder R nr Locate				D*		D	D*			D	
Mizpah Cr nr Mizpah				D*			D*	D		D	
Tongue R at State line	D			D*			D*				
Tongue R at Tongue R Dam	D		D				D	D		D	
Tongue R blw Hanging Woman Cr.	D*						D			D	
Tongue R blw Brandenberg Br				D			D			D	
Tongue R at Miles City				D*						D	
Pumpkin Cr nr Miles City				D*			D*	D		D	
Otter Cr at Ashland				D*			D*			D	
Hanging Woman Cr nr Birney		I	D*				D*	D		D	
Squirrel Cr nr Decker							D*				

Table 6 (continued). Water Quality Trends

MONTANA

Stations and Parameters where Significant Statistical Differences were Observed.
 Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Rosebud Cr nr Colstrip							D				
Armells Cr nr Forsythe			I*								
Bighorn R nr St Xavier			I							I	
Bighorn R at Bighorn	I		I	D			D*				
Little Bighorn R nr Hardin				D*			D*	D			
Poplar R at Int'l Bdry		D	D*				D*				
Poplar R nr Scobey		D*									
W Fork Poplar R nr Bredette				D							D As
E Fork Poplar R at Int'l Bdry	D	D		I						I	
E Fork Poplar R nr Scobey										I	
Beaver Cr at Int'l Bdry											D Hg
Redwater R at Circle	D		D *			D*				D	
Redwater R nr Vida		D*									
Timber Cr nr Van Norman				D *		D*	D				
W Parrot Cr nr Roundup	D*		D *				D				
Fattig Cr nr Delpia				D *		D*				D	
Musselshell R nr Roundup								I			
Beaverhead R nr Twin Br				D			D			D	
Lake Koocanusa at Int'l Bdry	D	I	D			D	D		D	D Pb	
Lake Koocanusa at Ten Mile Cr	D	I	D							D Pb	
Lake Koocanusa at Forebay		I	D							D Pb	
Kootenai R b/w Libby Dam		I	D								

Table 6 (continued). Water Quality Trends

Stations and Parameters where Significant Statistical Differences were Observed.

Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Table 7. Ranking of Critical Water Quality Stations by Pollutant Group

<u>Fecal Coliform</u>	<u>Exceed. Prob.</u>	<u>No. Mos. Exc'd</u>	<u>Avg. Conc. mg/l</u>
1. Red River of the North - Fargo	0.50	3	935
<u>Nitrogen</u>			
1. Red River of the North at Halstad, MN	1.00	9	1.95
2. Red River of the North at Hickson	0.89	6	1.78
3. Souris R nr Foxholm	0.83	9	1.62
<u>Phosphorus</u>			
1. Red River of the North at Halstad, MN	1.00	9	0.30
2. Red River of the North - Fargo	0.62	9	0.27
3. Souris R nr Verendrye	0.78	7	0.35
4. Red River of the North at Hickson	0.89	6	0.20
5. Bois de Sioux R-Wahpeton	1.00	4	0.25
6. Red River of the North - Grand Forks	0.80	8	0.15
7. Souris R - Kramer	0.70	7	0.15
8. Souris R - Towner	0.58	7	0.15
<u>Dissolved Solids</u>			
1. Souris R nr Foxholm	0.54	6	5599
2. Souris R nr Sherwood	0.83	10	718
3. Souris R nr Verendrye	0.70	7	660
4. Park R on I-29	0.63	5	880
5. Forest R blw Minto	0.67	6	625
6. Park R blw Park River	1.00	3	774

Table 7 (Continued). Ranking of Critical Water Quality Stations
by Pollutant Group

<u>Suspended Sediment</u>	<u>Exceed. Prob.</u>	<u>No. Mos.</u>	<u>Avg. Conc. mg/l</u>
1. Pembina R at Walhalla	0.54	3	1063
2. Pembina R nr Vang	0.58	3	832
3. Little South Pembina R nr Walhalla	0.45	3	409
4. Red River of the North at Hickson	0.67	4	96

TABLE 8. TARIFF OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	No.	EXCEDIENCE DAYS	PERCENTAGE
00300 NO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
RED RIVER OF THE NORTH AT HICKSON, ND					XX								9	0.11	
RED RIVER OF THE NORTH AT HALSTAD, MN			Y	X	XX								11	0.21	
SOURTS RTVER NR SHERWOOD, ND			XX	XX									20	0.25	
SOURTS R - TOWNER, ND			XX										2	0.50	
SOURTS R KRAMER NORTH DAKOTA			X										2	0.50	
FOREST R 8 MILES EAST OF MTNTD			XX										1	1.00	
31616 EFC COII															
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
BOTS OF SIOUX R - WAHPETON, ND								0					3	0.33	
RED R - FARGO, ND					XX	XX							6	0.50	
PARK RTVER ON T-29 NORTH DAKOTA													4	0.25	
FOREST R 8 MILES EAST OF MTNTD													4	0.25	
31625 EFC COII															
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
RED RIVER OF THE NORTH AT HALSTAD, MN													10	0.20	
SOURTS RTVER NR FOYHOLM, ND													11	0.09	
PEMBINA RIVER AT WALHALLA, ND													16	0.13	
PEMBINA RIVER NR VANG, ND													10	0.10	
79 31501 TOT COII															
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
SOURTS RTVER NR SHERWOOD, ND													16	0.13	
00615 NO2-N															
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
SOURTS RTVER NR SHERWOOD, ND													20	0.05	
00600 TOTAL N															
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
RED RIVER OF THE NORTH AT HICKSON, ND			Y		X	XX		X		X		X	6	0.80	
RED RIVER OF THE NORTH AT HALSTAD, MN			XY	YY	X		XX	X	X	X	X	XX	10	1.00	
SOURTS RTVER NR SHERWOOD, ND			Y	X			X	XX		X		0	12	0.67	
SOURTS RTVER NR FOYHOLM, ND			0	X	X		X	0		X	YY	XX	12	0.83	
PEMBINA RIVER AT WALHALLA, ND													3	0.25	
00620 NO3-N															
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
BOTS OF SIOUX R - WAHPETON, ND													4	0.25	
RED R - FARGO, ND													11	0.16	
00630 NO2&NO3															
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
RED RIVER OF THE NORTH AT HICKSON, ND								XX					9	0.11	
RED RIVER OF THE NORTH AT HALSTAD, MN								X					10	0.10	

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%
 X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 95%
 XX= EXCEEDS CRITERIA BY MORE THAN 95%

TABLE 8. TABLE OF STATIONS WHERE WATER QUANTITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------------	---------------------------

00665 PHOS-TOT

	XX		YX	X									4	1.00
BOTS OF SIOUX R - WDAYTON, ND	XY		X	XX	XX		X	Y					0	0.89
RED RIVER OF THE NORTH AT HICKSON, ND	XY	-	X	XX	XX		0	XX	X	Y	0	11	0.82	
RED R - FARGO, ND	XY	XY	XX	X	XX	XX	XY	XX	X	XX	10	1.00		
RED RIVER OF THE NORTH AT HALSTAD, MN	XY	XX	X	XX	XX	XX	XY	XX	X	XX	10	0.80		
RED R - GRAND FORK, ND	0	XY		XX			X	X	XX	X	10	0.67		
RED R - PEMRTNA, ND							X		X		3		0.57	
SOURTS RTVER NR SHERWOOD, ND			X	X	X	X	X				20		0.50	
SOURTS RTVER NR FOXHOLM, ND					X	XX	X	X	XX	XX	13		0.62	
SOURTS RTVER NR VERENDRYF, ND		X	X		XX	XX	XX	XX	XX		6		0.78	
SOURTS R - TOWNER, ND		YY			X	X	X	XY	XX		12		0.58	
SOURTS R KRAMER NORTH DAKOTA		X			X	X	X	Y	XX		10		0.70	
PARK RTVER ON T-29 NORTH DAKOTA											0		0.13	
FOREST RTVER NEAR FORDVILLE N. D					0						2		0.50	
FOREST R 8 MILES EAST OF MINTO					0						9		0.11	

00650 T P04

		XX											6	0.50
RED RIVER OF THE NORTH AT HICKSON, ND			XX				X						1	1.00
RED RIVER OF THE NORTH AT HALSTAD, MN				XX	XX	XX							10	0.30
SOURTS RTVER NR SHERWOOD, ND				X	0								3	1.00
SOURTS RTVER NR FOXHOLM, ND					X	0							3	0.67
SOURTS RTVER NR VERENDRYF, ND						XX								

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													2	0.50
SOURTS RTVER ABOVE MINTO, ND													10	0.20
RED RIVER OF THE NORTH AT HALSTAD, MN	Y	X												
SOURTS RTVER NR SHERWOOD, ND	XY	XX	X	X	0	X	X	X	X	XX	20		0.90	
SOURTS RTVER NR FOXHOLM, ND	X	X	X								13		0.46	
SOURTS RTVER NR VERENDRYF, ND	X	X	X				0	X	X	XX	9		0.78	
SOURTS RTVER NR PANTRY, ND											3		0.67	
DEEP RTVER NR UPHAM, ND								X	X		3		0.33	
DEEP RTVER BELOW CUT BANK CREEK NR UPHAM							X	X	X		5		0.80	
CUT BANK CREEK AT N LAKE OUTLET NR GRANV									X		2		0.50	
DES LACS RTVER AT FOXHOLM, ND										X	4		0.75	
PEMRTNA RTVER AT WALHALA, ND		X	0	0		0	X	X	0	Y	11		0.82	
PEMRTNA RTVER AT NECHE, ND										Y	2		0.50	
PEMRTNA RTVER NR VANG, ND		X				0	0				8		0.38	
LITTLE SOUTH PEMRTNA RTVER NR WALHALA,		X				0	X				7		0.43	
PARK RTVER AT GRAFTON, ND									X		2		0.50	
FOREST RTVER AT MINTO, ND										0	X	4	0.50	

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													11	0.09
RED R - FARGO, ND			X										2	0.50
SOURTS RTVER ABOVE MINTO, ND													10	0.20
RED RIVER OF THE NORTH AT HALSTAD, MN	Y	0											10	0.70

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%

X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

YX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 8. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OWS	EXCEEDENCE PROBABILITY
RED R - PEMBINA, ND	X												2	0.33
SOURTS RTVER NR SHERWOOD, ND		XX	XX	X			0	X	X	X	X	XX	12	0.03
SOURTS RTVER NR FOXHOLM, ND		X	X	X					XX		0	X	13	0.54
SOURTS RTVER NR VERENDRYE, ND		X	X	X			0	X	X	XX			10	0.70
SOURTS R - TOWNER, ND								X	X	X			12	0.58
SOURTS RTVER NR RAMTRY, ND											X		2	0.67
SOURTS R KRAMER NORTH DAKOTA								X	X	X			2	0.56
DEEP RTVER NR UPHAM, ND												X	1	0.73
DEEP RTVER BELOW CUT BANK CREEK NR UPHAM								0	X	X	X		5	0.80
CUT BANK CREEK AT N LAKE OUTLET NR GRANV											X		2	0.50
DETAC'S R - FOXHOLM, ND								X					2	0.50
DES LACS RTVER AT FOXHOLM, ND											X	X	4	0.75
PEMBINA RIVER AT WALHALIA, ND		X	0	X					X	0	0		11	0.64
PEMBINA RIVER AT NECHE, ND													2	0.50
PEMBINA RIVER NR VANG, ND			X						0				8	0.38
LITTLE SOUTH PEMBINA RTVER NR WALHALIA,		0									0		7	0.29
PARK RTVER AT GRAFTON, ND											X		2	0.50
PARK RTVER ON T-29 NORTH DAKOTA									XX		X	X	8	0.63
PARK R 6 MILES EAST OF PARK R.	XX								X		X		3	1.00
FOREST RTVER NEAR FORTDALE N. D.							0						2	0.50
FOREST RTVER AT MINTO, ND											0	X	4	0.50
FOREST RTVER NEAR MINTO N. D.		X							0				3	0.67
FOREST R R MILES EAST OF MINTO			X	X				XX	X		0		0	0.67

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RED RIVER OF THE NORTH BELOW FARGO, ND	0												11	0.09
SOURTS RTVER ABOVE MINTO, ND	X	X	0							X	X	X	14	0.50
RED RIVER OF THE NORTH AT HAYSTAD, MN	Y	0											15	0.13
SOURTS RTVER NR SHERWOOD, ND	Y	XX	X						Y	X	X	X	21	0.76
SOURTS RTVER NR FOXHOLM, ND	Y	X	X	X								0	21	0.48
SOURTS RTVER NR VERENDRYE, ND	Y	X	--X						X	X	X	X	20	0.60
SOURTS R - TOWNER, ND										X	X	X	7	0.57
SOURTS RTVER NR RAMTRY, ND		X		X						0	X	X	12	0.67
SOURTS R KRAMER NORTH DAKOTA										X	X	X	7	0.57
DEEP RTVER NR UPHAM, ND									0	X	0	X	5	0.80
DEEP RTVER BELOW CUT BANK CREEK NR UPHAM									0	0	0	X	10	0.70
CUT BANK CREEK AT N LAKE OUTLET NR GRANV									0	X	0	X	16	0.69
DES LACS RTVER AT FOXHOLM, ND	XY	YX							0	X	X	X	16	0.41
PEMBINA RTVER AT WALHALIA, ND	0	0	0						0			X	17	0.41
PEMBINA RTVER AT NECHE, ND	Y	0	X						0				19	0.50
PEMBINA RTVER NR VANG, ND	X	X							0				13	0.31
LITTLE SOUTH PEMBINA RTVER NR WALHALIA,	0	0							0				15	0.47
PARK RTVER AT GRAFTON, ND									XX	X	X	X	13	0.46
PARK RTVER ON T-29 NORTH DAKOTA										XY		X	7	0.57
SOUTH BRANCH PARK RIVER BELOW HOMME DAM.	Y	0	0							0			12	0.73
PARK R 6 MILES EAST OF PARK R.										Y			2	1.00
FOREST RTVER NR FORTDALE, ND													12	0.08
FOREST RTVER AT MINTO, ND		Y	X									0	12	0.33
FOREST R R MILES EAST OF MINTO									XY	0		X	7	0.43

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%

X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 8. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OWS	EXCEEDENCE PROBABILITY
	---	---	---	---	---	---	---	---	---	---	---	---	---	---
80154 SUSP SPD	-	-	-	-	-	-	-	-	-	-	-	-	0	0.67
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	0	0.50
RED RIVER OF THE NORTH AT HICKSON, ND	-	-	-	-	-	X	X	XX	X	-	-	-	0	0.67
RED RIVER OF THE NORTH AT HALSTAD, MN	-	-	-	-	-	-	X	XX	-	-	-	-	0	0.50
SOURIS RTVER NR SHERWOOD, ND	-	-	-	-	-	0	-	-	-	-	-	-	10	0.10
PEMBERTON RIVER AT WALHALLA, ND	-	-	-	-	-	XX	XX	XX	-	-	-	-	11	0.54
PEMBERTON RIVER NR VANCE, ND	-	-	-	-	-	XX	XX	XX	-	-	-	-	12	0.58
LITTLE SOUTH PEMBERTON RTVER NR WALHALLA,	-	-	-	-	-	XX	XX	-	X	-	-	-	11	0.45
00940 CHLORIDE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	0	0.10
RED R - GRAND FORK, ND	-	-	-	-	-	X	-	-	-	-	-	-	10	0.10
RED R - PEMBERTON, ND	-	-	-	-	-	0	-	-	-	-	-	-	2	0.33
PARK RTVER ON T-29 NORTH DAKOTA	-	-	-	-	-	-	-	XX	-	-	-	-	0	0.13
FOREST R 8 MILES EAST OF MTNTO	-	-	-	-	-	-	-	XX	-	-	-	-	0	0.11
00945 SULFATE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	11	0.09
RED R - FARGO, ND	-	-	-	-	-	0	-	-	-	-	-	-	10	0.10
RED R - GRAND FORK, ND	-	-	-	-	-	X	-	-	-	-	-	-	2	0.33
RED R - PEMBERTON, ND	-	-	-	-	-	Y	-	-	-	-	-	-	0	0.13
82 00720 CYANIDE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	1	1.00
ROTS DF SIOUX R - WDAYTON, ND	-	-	-	-	-	XX	-	-	-	-	-	-	1	1.00
PEO R - FARGO, ND	-	-	-	-	-	XX	-	-	-	-	-	-	1	1.00
71900 MERCURY	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	5	0.20
RED RIVER OF THE NORTH AT HALSTAD, MN	-	-	-	-	-	-	XX	-	-	-	-	-	2	0.50
SOURIS RTVER NR SHERWOOD, ND	-	-	-	-	-	-	XX	-	-	-	-	-	-	-
01042 COPPER	-	-	-	-	-	-	-	-	-	-	-	-	2	0.50
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	0	0.50
PEO R - GRAND FORK, ND	-	-	-	-	-	-	-	XX	-	-	-	-	2	0.50
01051 TIN	-	-	-	-	-	-	-	-	-	-	-	-	2	0.50
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	0	0.50
PEO R - GRAND FORK, ND	-	-	-	-	-	-	-	XX	-	-	-	-	2	0.50
01092 ZINC	-	-	-	-	-	-	-	-	XX	-	-	-	2	0.50
*****	*****	*****	*****	*****	*****	*****	*****	*****	XX	-	-	-	0	0.50
PEO R - GRAND FORK, ND	-	-	-	-	-	-	-	-	XX	-	-	-	2	0.50

PROCESSING COMPLETE FOR REQUESTED PERIOD

Table 9. Water Quality Trend Table

NORTH DAKOTA

Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high-levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Red R of the North-Fargo-											I Mg
Red R of the North at Halstad, MN											D Hg*
Red R of the North at Grand Forks			I*	I*							
Souris R nr Westhope	I			I*							D Hg
Pembina R nr Vang			D								
Sheyenne R at Lisbon				I							
Sheyenne R nr Kindred	D*	D*	I		D					I D	Hg*
Wild Rice R nr Abercrombie					D*						
Missouri R nr Williston		I	D			D					I As
Missouri R nr Garrison Dam				D			D	D		D	D Cd
Missouri R nr Garrison Dam											D Hg
Missouri R at Bismarck	D		D								I
Missouri R nr Schmidt	I*	D	D			D					I
James R nr Manfred				D							
James R at Lamoure				I*							
Buffalo Cr T b. nr Gascoyne					I						
Cannonball R at Breien											I Cd
Heart R nr South Heart	I*		D*	I							
Square Butte Cr blw Center				D							
Knife R at Hazen	D										I Cd
Little Missouri R nr Watford City	D*		D*			D					
Bear Den Cr nr Mandaree				D*							

Table 9 (continued). Water Quality Trend Table

Stations and Parameters where Significant Statistical Differences were Observed.

Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Table 10. Ranking of Critical Water Quality Stations by Pollutant Group

	<u>Exceed.</u> <u>Prob.</u>	<u>No.</u> <u>Mos.</u> <u>Exc'd</u>	<u>Avg.</u> <u>Conc.</u> <u>mg/l</u>
<u>Fecal Coliform</u>			
1. Whitewood Cr blw Deadwood	1.00	12	57539
2. White R nr Kadoka	1.00	5	20000
3. Bad R nr Ft. Pierre	1.00	2	35000
4. Cheyenne R blw Plainview	1.00	3	16640
5. Cheyenne R nr Wasta	1.00	1	35000
6. White R nr Oglala	1.00	2	8200
7. Rapid Cr blw Rapid City	0.71	5	4410
8. S Fork Grand R nr Bison	1.00	1	11000
9. Big Sioux R nr Richland	0.67	8	1747
<u>Nitrogen</u>			
1. Cheyenne R at Edgemont	1.00	1	64.2
<u>Phosphorus</u>			
1. Rapid Cr blw Rapid City	1.00	7	2.11
2. Big Sioux R - Brandon to Richland	1.00	12	1.21
3. Rapid Cr nr Farmingdale	1.00	12	0.72
4. French Cr nr Custer	1.00	12	0.76
5. Box Elder Cr at New Under- wood	1.00	7	0.97
6. James R abv Mitchell	1.00	12	0.36
7. Whitewood Cr blw Deadwood	1.00	11	0.33
8. White R nr Oglala	1.00	9	0.27
9. Little White R nr White River	1.00	8	0.27
10. Fall River at Mouth	1.00	12	0.17
<u>Dissolved Solids</u>			
1. Cheyenne R at Edgemont	0.75	9	3648
2. Belle Fourche R nr Elm Spgs	0.42	5	2544
3. N Fork Grand R nr Shadehill	0.56	5	2622
4. Bad R nr Ft Pierre	0.50	4	3650

Table 10 (Continued). Ranking of Critical Water Quality Stations
by Pollutant Group

	<u>Exceed.</u> <u>Prob.</u>	<u>No.</u> <u>Mos.</u> <u>Exc'd</u>	<u>Avg.</u> <u>Conc.</u> <u>mg/l</u>
<u>Dissolved Solids</u>			
5. Horse Cr nr Vale	0.33	4	3466
6. Moreau R nr Whitehorse	0.60	3	2450
<u>Suspended Sediments</u>			
1. White R nr Oacoma	0.78	7	7077
2. Cheyenne R at Cherry Cr	1.00	9	1750
3. Belle Fourche R nr Elm Spgs	1.00	10	1124
4. Moreau R nr Whitehorse	0.67	4	581
5. Big Sioux R at Akron, IA	0.89	8	182

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEED CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MO.	EXC/EENCE PROBABILITY
	---	---	---	---	---	---	---	---	---	---	---	---	MO.	EXC/EENCE PROBABILITY
00300 - DO														
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
MISSOURI R AT PIERRE SD									XX				12	0.08
BIG SIOUX RIVER ABOVE WATERTOWN				XX	XX								13	0.15
BIG SIOUX NEAR WATERTOWN				XX	XX								10	0.20
BIG SIOUX RIVER CEMETARY ROAD				O	X								12	0.17
BIG SIOUX RIVER NEAR BROOKINGS				X									12	0.08
BIG SIOUX RIVER AT BRANDON'S DAK						X							14	0.07
BIG SIOUX RIVER EAST OF CANTON				XX	X								13	0.15
BIG SIOUX RIVER EAST OF HUDSON				XX	X								12	0.17
BIG SIOUX RIVER SE OF ALCESTER				X	X								12	0.17
BIG SIOUX R AT AKRON IA					XX								24	0.04
BIG SIOUX RIVER NEAR RITCHLAND SD				XX	X								12	0.17
JAMES RIVER NEAR HECLA				X				0					10	0.20
JAMES R AT COLUMBIA SD									0				21	0.13
JAMES RIVER NEAR STRATFORD								X					9	0.11
JAMES RIVER ABOVE HURON					XX								12	0.08
JAMES RIVER ABOVE MITCHELL					XX								12	0.08
JAMES RIVER BELOW MITCHELL					XX								11	0.09
JAMES R NEAR SCOTLAND SD					XX								25	0.04
JAMES RIVER NORTH OF YANKTON					X			0					12	0.17
KEYA PAHA RIVER NEAR WAKONDA													10	0.10
WHITE RIVER NEAR OACONA SD				XX									25	0.04
CHEYENNE R NEAR BUFFALO GAP SD										X			1	1.00
BOX FLOOR CRK AT NEW UNDERWOOD								0					8	0.13
WHITE RIVER NEAR WHITEHORSE				XX	XX								5	0.40
S. FORK GRAND R. NORTH OF BISON				O									8	0.13

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*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
BIG SIOUX NEAR WATERTOWN	XX	XX											10	0.30
BIG SIOUX RIVER NEAR BROOKINGS									XX	XX			11	0.18
BIG SIOUX RIVER NEAR DELI. RAPIDS									XX	X			11	0.18
BIG SIOUX RIVER TN SIOUX FALLS									X	XX	XX		12	0.25
BIG SIOUX R AT NORTH CLIFF AVE A									XX	XX	XX		10	0.53
BIG SIOUX RIVER AT BRANDON'S DAK									XX	XX	XX		14	0.20
BIG SIOUX RIVER EAST OF CANTON									XX	XX	XX		13	0.46
BIG SIOUX RIVER EAST OF HUDSON									XX	XX	XX		12	0.42
BIG SIOUX RIVER SE OF ALCESTER									XX	XX	XX		12	0.58
BIG SIOUX RIVER NEAR RITCHLAND SD	O	XX	XX						X	XX	XX		12	0.67
VERMILLION RIVER W OF CHANCELLOR									XX	X			11	0.18
VERMILLION R NEAR WAKONDA										XX	X		12	0.08
KEYA PAHA RIVER NEAR WAKONDA											X		10	0.10
LITTLE WHITE R NEAR WHITE R SD													9	0.11
BAD R NEAR FT PIERRE													6	0.0
FAIR RIVER NEAR CONfluence													12	0.08
CHEYENNE RIVER SE OF PLAINVIEW													9	0.11
REILLY FOURCHE R NEAR REILLY FOURCH													11	0.27

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
 X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
 XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE II. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MJ.	EXCEDENCE PROBABILITY
	---	---	---	---	---	---	---	---	---	---	---	---	ORS	
REILIE FOURCHE R NEAR STURGIS								XX					12	0.08
REILIE FOURCHE NW OF FILM SPRINGS								X					12	0.08
0.5 MILES S JUNC U.S. HWY RS 365								XX					4	0.50
WHITEWOOD CREEK NE OF DEADWOOD	XX	X	XX	XX	XX	12	1.00							
WHITEWOOD CREEK AT PIUMA	XX				XX								12	0.17
WHITEWOOD CREEK ABOVE HOMESTAKE		Y	XX										12	0.17
WHITEWOOD CREEK NEAR WHITEWOOD			XX				X					XX	11	0.27
REILIE FOURCHE R NEAR REILIE FOURC							XX	XX					11	0.27
RFDWATER R AT REILIE FOURCHE									XX				11	0.09
SPEARFISH CREEK - MILE FROM RFD WATER R								0					12	0.08
BOX FISHER CRK AT NEW UNIONWOOD							X						8	0.13
TIN RCF SECTION 10 RAPID CREEK							XX	XX	XX	XX	XX		7	0.71
RAPID CREEK NEAR FARMINGDALE							X	XX	X				12	0.33
BATTLE CREEK NEAR KEYSTONE										X			12	0.68
SPRING CREEK AT SHERTON LAKE								XX					12	0.08
CHEYENNE CREEK NEAR CUSTER										X			12	0.08
S. FORK GRAND R. NORTH OF RISON													7	0.0

31615 FEC COLI

WHITE RIVER NEAR OGDALA							XX	XX					2	1.00
WHITE RIVER NEAR KADOKA							X	XX	XX	XX			5	1.00
LITTLE WHITE R NEAR WHITE R SD							X	XX	0				1	1.00
RAD R NEAR FT PIERRE							XX	XX					2	1.00
CHEYENNE R AT EDGEWORTH								XX	X				2	1.00
CHEYENNE R NEAR WASTA								XX					1	1.00
CHEYENNE RIVER SE OF PLATINVIEW							XX	XX					3	1.00
REILIE FOURCHE R NEAR REILIE FOURC								XX					1	1.00
REILIE FOURCHE R NEAR REILIE FOURC									XX				1	1.00
MORFAU RIVER NEAR WISTA									XX				1	1.00
S. FORK GRAND R. NORTH OF RISON									XX				1	1.00

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BIG SIOUX R AT AKRON IA							XX	XX	XX	XX	X	X	12	0.69
WHITE R NEAR OACOMA SD								XX	X			XX	12	0.25
CHEYENNE R AT CHERRY CREEK SD									XX				12	0.08
REILIE FOURCHE R AT WY-SD STATE L							0	X	X	0			12	0.73
REILIE FOURCHE R NEAR FILM SPRINGS							0	XX					11	0.18

31501 TOT COLI

BIG SIOUX R AT NORTH CLIFF AVE A										X			16	0.31
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CHEYENNE R AT EDGEWORTH								XX					1	1.00
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00600 TOTAL N

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
 X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
 XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEED CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	NO.	PREDICTION DHS	PREDICTION PROBABILITY
	---	---	---	---	---	---	---	---	---	---	---	---	18	0.06	
BIG SIOUX R NEAR DELLS RAPIDS SD	XX														
00620 NO3-N															
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	12	0.08	
BIG SIOUX RIVER ABOVE WATERTOWN		X													
FARL RIVER NEAR CONFLUENCE													XY		0.08
00625 T PHOS-TOT															
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****			
BIG SIOUX R NEAR DELLS RAPIDS SD	XX	XX	X	XX	X	XX	XX	XX	XX	O	X		21	0.95	
BIG SIOUX R AT NORTH CLIFF AVE A	XX		21	0.86											
BIG SIOUX R AT AKRON IA	XX		12	1.00											
JAMES R AT COLUMBIA SD			XX		XX	XX	XX	XX	XX	X	XX		8	0.88	
JAMES R AT HURON SD	XY	XX	X		12	1.00									
JAMES R NEAR SCOTLAND SD	XX		12	1.00											
WHTTF R NEAR OACOMA SD	X	YY	XX	XX	XX	XX	XY	XX	XX	XX	XX		12	0.92	
CHFYFNNE R NEAR BUFFALO GAP SD							XX								
CHFYFNNE R AT CHERRY CREEK SD	X	XX		12	0.42										
CHFYFNNE R NEAR EAGLE BUTTE SD							X				XX		12	0.17	
REILF FOURCHE R AT WY-SD STATE L	XY		XX	XX		X	XX	O					12	0.50	
REILF FOURCHE R NEAR STURGIS SD						XX	XX						11	0.18	
REILF FOURCHE R NEAR ELM SPRINGS						XX	XX	X					8	0.38	
HORSE CR NEAR VATE SD						XX	X	O					11	0.27	
TNI.FT CANAL NEAR REILF FOURCHE SD						X	X	XX					11	0.27	
RAPID CR BELOW PACTOLA DAM SD		XY	XX		12	1.00									
RAPID CR NEAR FARMINGDALE SD											XX		11	0.09	
CASTLE CR ABOVE DERRFIELD RES NE															
MOREAU R NEAR WHTTEHORSE SD						XX		XX					7	0.29	
00650 T PO4															
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****			
BIG SIOUX R NEAR DELLS RAPIDS SD						XX	X	YY					5	1.00	
BIG SIOUX R AT NORTH CLIFF AVE A						XX	XX	XX					5	0.80	
BIG SIOUX R AT AKRON IA						XX	XX	XX					3	1.00	
JAMES R AT COLUMBIA SD						XX	X	XX					3	1.00	
JAMES R AT HURON SD						YY	XX	XX					3	1.00	
JAMES R NEAR SCOTLAND SD						XX	XX	XX					3	1.00	
WHTTF R NEAR OACOMA SD							XX	XX	XX				2	1.00	
CHFYFNNE R NEAR BUFFALO GAP SD								XX					2	0.50	
CHFYFNNE R AT CHERRY CREEK SD									XX				3	0.33	
CHFYFNNE R NEAR EAGLE BUTTE SD								O					2	0.33	
REILF FOURCHE R NEAR STURGIS SD								YY					3	0.33	
REILF FOURCHE R NEAR ELM SPRINGS								XX					2	0.67	
HORSE CR NEAR VATE SD								O	O				3	0.67	
TNI.FT CANAL NEAR REILF FOURCHE SD							X	X					4	0.25	
RAPID CR BELOW PACTOLA DAM SD						XX	XX	XX	XX				4	1.00	
RAPID CR NEAR FARMINGDALE SD															
70505 T PO4															
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****			

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	%O.	EXCEDENCE PROBABILITY
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MISSOURI RIVER AT OAHE DAM													11	0.09
BIG SIOUX RIVER ABOVE WATERTOWN			XX	XX	XX	O	XX	X	XX	O	O	O	13	0.77
BIG SIOUX NEAR WATERTOWN			XX	XY	X	X	XX	XX	XX	XX	XX	XX	10	1.00
BIG SIOUX RIVER CEMETARY ROAD			XX	X	X	X	XX	XX	XX	X	X	X	12	0.83
BIG SIOUX RIVER NEAR BROOKINGS			Y	X	X	X	XX	XX	XX	X	XX	X	12	0.93
BIG SIOUX RIVER NEAR DELA RAPIDS			XX	XX	XX	X	XX	XX	XX	X	X	X	11	0.91
BIG SIOUX RIVER IN SIOUX FALLS				XX	XX	X	YY	XX	XX	XX	X	X	12	0.83
BIG SIOUX RIVER AT BRANDON S DAK			XX	YY	XX	XX		XX	XX	XX	XX	XX	14	1.00
BIG SIOUX RIVER EAST OF CANTON			XX	YY	XX	XX	XX	XX	XX	XX	XX	XX	13	1.00
BIG SIOUX RIVER EAST OF HUDDSON			XX	YY	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
BIG SIOUX RIVER SE OF MCESTER			XX	XX	XX	XX	X	XX	XX	XX	XX	XX	12	1.00
BIG SIOUX RIVER NEAR RICHLAND SD			XX	XX	XX	XX	X	YY	XX	XX	XX	XX	12	1.00
VERNTLATION RIVER W OF CHANCELLOR				XX	XX		X	O	X	XX	O	O	11	0.64
VERNTLATION R NEAR WAKONDA			O		XX	XX	XX	XX	X	XX	X	X	12	0.83
JAMES RIVER NEAR HFCIA			XY		XX	XX		XX	X	O	O	O	10	0.80
JAMES RIVER NEAR STRATFORD					XX	XX		XX	XX	XX	XX	O	9	0.89
JAMES RIVER ABOVE HURON			XX	XX	XX	XX	XX	XX	XX	XX	X	O	12	1.00
JAMES RIVER ABOVE MITCHELL			XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
JAMES RIVER BELOW MITCHELL			XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00
JAMES RIVER NORTH OF YANKTON			XX	XX	XX	XX	X	XX	XX	XX	XX	XX	12	1.00
KEYA PAHA RIVER NEAR WEWELA			XY	XX	X	O	O	XX	X	O	X	X	10	0.90
WHITE RIVER NEAR OGLALA				XX	XX	X	X	X		X	YY	XX	9	1.00
WHITE RIVER NEAR KADOKA												XX	5	0.40
WHITE RIVER NEAR OACOMA			XX	YY	XX						O	XX	5	1.00
WHITE RIVER NEAR WHITE R SD			XX	YY	XX	XX	XX			X	XX	XX	8	1.00
WAD R NEAR FT PIERRE									XX	XX	XX		6	0.11
CHFYFNNE R AT FDCFMONT													10	0.10
FATI RIVER NEAR CONFLUENCE			X	X	X	X	X	X	X	X	XX	XX	12	1.00
CHFYFNNE R NEAR WASTA			XX	XX	XX	XX		X			XX	XX	11	0.64
CHFYFNNE RIVER SF OF PLATVIEW			XX	XX	O						XX	XX	8	0.63
BEILLE FOURCHE R NEAR BEILLE FOURC													11	0.09
BEILLE FOURCHE R NEAR STURGTS				XX	X	X							11	0.36
BEILLE FOURCHE NW OF FILM SPRINGS							XX						12	0.08
0.5 MILES S JUNC U.S. HWY 365			O										4	0.25
WHITEWOOD CREEK NE OF DEADWOOD			XX		XX	XX	YY	XX	XX	XX	XX	X	11	1.00
WHITEWOOD CREEK AT PLUMA			XX							XX	XX		12	0.25
WHITEWOOD CREEK ABOVE HOMESTAKE													12	0.08
WHITEWOOD CREEK NEAR WHITENOOD													11	0.92
BEILLE FOURCHE R NEAR BEILLE FOURC													11	0.09
REDWATER R AT BEILLE FOURCHE			XX	YY									12	0.17
RUX FIDER CRK AT NEW UNDERWOOD				YY	XY	XX	XX	XX	XY				7	1.00
TIN PPF SECTION 30 RAPID CREEK							XX	XX	XX	XX	YY	XX	7	1.00
RAPID CREEK NEAR FARMINGDALE			XX	XX	XX	X	XX	YY	XX	XX	YY	XX	13	1.00
SPRING CREEK AT SHERIDAN LAKE							Y						12	0.08
SPRING CREEK SOUTHWEST OF RAPID													10	0.10
GRACE COOLTAGE CREEK													10	0.20
FRENCH CREEK NEAR CUSTER			XY	YY	XX	YY	XX	YY	XX	YY	YY	XX	12	1.00
FRENCH CREEK IN CUSTER STATE PK.							X	Y	X	YY	YY	X	10	0.60
MOREAU RIVER NEAR USTA							O	YY					6	0.33
MOREAU RIVER NEAR WHITEHORSE								XX					4	0.25

LEGEND: O - EXCEEDS CRITERIA BY LESS THAN 15%
 X - EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 95%
 XX - EXCEEDS CRITERIA BY MORE THAN 95%

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MJN.	EXCEDENCE PROBABILITY
S. FORK GRAND R. NORTH OF BISON										0			7	0.14
GRAND RIVER NEAR LITTLE EAGLE					XX								6	0.17
N. FORK GRAND R. NEAR SHADETHILL					XX								8	0.13
LITTLE MISSOURA R AT CAMP CROOK					X			XY					2	0.67
00515 RESIDUE														
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	10	0.10
BIG SIOUX NEAR WATERTOWN					0								11	0.09
BIG SIOUX RIVER NEAR DELLS RAPIDS								XX					12	0.08
JAMES RIVER ABOVE HURON					0								8	0.13
RAD R NEAR FT PIERRE										0			12	0.08
CHEYENNE R AT EDGEWOOD													0	0.50
FALL RIVER NEAR CONFLUENCE								0	0	0	0	0	12	0.08
BELLE FOURCHE NW OF FILM SPRINGS					0								12	0.08
SPREADFISH CREEK MILE FROM RED WATER R					Y								12	0.08
70306 RESIDUE														
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	8	0.13
BELLE FOURCHE R NEAR FILM SPRINGS					0									
70301 DISS SOL														
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	11	0.27
00095 CONDUCTIV														
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	21	0.14
BIG SIOUX R AT NORTH CLIFF AVE A					X								8	0.50
RAD R NEAR FT PIERRE						0	X	X					12	0.75
CHEYENNE R AT EDGEWOOD					XX	XX	0	X	XX				13	0.46
CHEYENNE R NEAR BUFFALO GAP SD					X					0	X	X	12	0.0
CHEYENNE R NEAR WASTA													12	0.25
CHEYENNE RIVR SP OF PLATINVW					0						0	0	12	0.31
CHEYENNE R AT CHERRY CREEK SD					Y	X	0						13	0.33
CHEYENNE R NEAR EAGLE BUTTE SD					Y	X	X						12	0.30
BELLE FOURCHE R AT WY-SD STATE L					0	X					0	0	20	0.17
BELLE FOURCHE R NEAR BELLE FOURC						0							12	0.25
BELLE FOURCHE R NEAR STURGTS					X								11	0.36
BELLE FOURCHE R NEAR STURGTS SD							0						12	0.42
BELLE FOURCHE NW OF FILM SPRINGS					Y	XX	X						25	0.16
BELLE FOURCHE R NEAR FILM SPRINGS					Y	XX							12	0.13
HORSE CR NEAR VALE SD					XY			X					12	0.17
BELLE FOURCHE R NEAR BELLE FOURC							0						12	0.17
MOREAU RIVER NEAR WHITEHORSE							0						5	0.60
MOREAU R NEAR WHITEHORSE SD													7	0.14
S. FORK GRAND R. NORTH OF BISON					X								8	0.25
GRAND RIVER NEAR LITTLE EAGLE					X								6	0.33
N. FORK GRAND R. NEAR SHADETHILL					Y	X							9	0.56
LITTLE MISSOURA R AT CAMP CROOK					0			0	0	X			2	0.31

00070 TURPH

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%

X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	NO.	EXCEDENCE DAYS	PROBABILITY	
BIG SIOUX R NEAR DELT. RAPIDS SD				X									7	0.14		
BIG SIOUX R AT NORTH CLIFF AVE A				XX									8	0.38		
BELLE FOURCHE R AT WY-SD STATE L	XY		XX	XX		X	XX	X					12	0.50		
00510 RESINIR																
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
BIG SIOUX RIVER CEMETARY ROAD								XX	X				12	0.33		
BIG SIOUX RIVER NEAR BROOKINGS									XX	XX			12	0.17		
BIG SIOUX R NEAR DELT. RAPIDS SD									X				3	0.67		
BIG SIOUX RIVER NEAR DELT. RAPIDS								0	X				10	0.30		
BIG SIOUX RIVER IN SIOUX FALLS								X					12	0.17		
BIG SIOUX RIVER AT BRANDON S DAK								X					14	0.36		
BIG SIOUX RIVER EAST OF CANTON								XX	X				13	0.46		
BIG SIOUX RIVER EAST OF HUDDSON								XX	XX	X			12	0.58		
BIG SIOUX RIVER SF OF ALCESTER								X	XX	XX	X		12	0.58		
BIG SIOUX RIVER NEAR RITCHLAND SD								X	X	0	XX		12	0.58		
VERMILLION RIVER W OF CHAMPSVILLE								XX					11	0.09		
VERMILLION R NEAR WAKONDA								X		XX	0		12	0.50		
JAMES RIVER ABOVE MITCHELL									X		0		12	0.17		
JAMES RIVER BELOW MITCHELL									X		0		12	0.33		
JAMES RIVER NORTH OF YANKTON								0	X	XX	X		12	0.50		
KEYA PAHN RIVER NEAR WEWELIA								XX	XX	X	XX		10	0.50		
WHITE RIVER NEAR OGLALA								XX	XX	XX	XX		11	0.64		
WHITE RIVER NEAR KADOKA								XX	XX	XX	XX		10	0.70		
WHITE RIVER NEAR OACOMA								XX					5	0.60		
LITTLE WHITE R NEAR WHITE R SD								XX	XX	XX	XX		12	0.67		
RAD R NEAR FT PIERRRE								XX	XX	XX	XX		8	0.63		
CHEYENNNE R AT EDGEWATER								X	XX	XX	XX		12	0.12		
CHEYENNNE R NEAR HAESTA								XX		XX	0		12	0.33		
CHEYENNNE RIVER SF OF PLATNEY								XX	XX	XX	XX		0	12	0.58	
BELLE FOURCHE R NEAR BELLE FOURC								YY		XX	XX		12	0.33		
BELLE FCHÉ R. BELOW CONFLUENCE								XX					3	0.33		
BELLE FOURCHE R NEAR STURGTS								XX		X	X		12	0.42		
BELLE FOURCHE NW OF FILM SPRINGS								XX		XX	XX		12	0.33		
0.5 MILES S JUNC U.S. HWY RS 365								X					4	0.25		
WHITEWOOD CREEK NE OF DEADWOOD								XX					12	0.50		
WHITEWOOD CR. ABOVE GOLD RUN CP.								XX					3	0.23		
WHITEWOOD CREEK AT PINEHORN								0					11	0.60		
WHITEWOOD CREEK AT DEADWOOD								XX					3	0.67		
WHITEWOOD CREEK ABOVE HOMESTAKE								Y					12	0.08		
WHITEWOOD CREEK AT CROOK CITY								X					2	0.23		
WHITEWOOD CREEK NEAR WHITEWOOD,													11	0.09		
WHITEWOOD CR. ABOVE BELLE FCHÉ.								YY					3	0.33		
BELLE FOURCHE R NEAR BELLE FOURC								XX		XX	XX		12	0.33		
REDWATER R AT BELLE FOURCHE								XX		XX	X		12	0.17		
SPEARFISH CR IN SPEARFISH,SD	XY												12	0.08		
SPEARFISH CREEK 1/4 MILE FROM RED WATER R	XY												12	0.17		
RAPID CREEK NEAR ROCHEFORT								XY					0	0.11		
TIN RIVER SECTION 30 RAPID CREEK													7	0.14		
RAPID CREEK NEAR FARMINGDALE								XX		XX	X		12	0.23		

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%

X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MID. OBS	EXCEDENCE PROBABILITY
CASTLE CREEK NEAR MYSTIC				XX			XX	XX					0	0.33
BATTLE CREEK NEAR KEYSTONE							X						12	0.08
GRACE COOLDGE CREEK									XX				10	0.10
MOREAU RIVER NEAR USTA				XX	XX			XX					7	0.43
MOREAU RIVER NEAR WHITEHORSE				XX	XX								5	0.40
S. FORK GRAND R. NORTH OF BISON				XX	XX			XX					8	0.38
GRAND RIVER NEAR LITTLE EAGLE				XX									6	0.17
LITTLE MISSOURI R AT CAMP CRANOK				XX									3	0.33
70299 RES-SUSP														

BIG SIOUX R NEAR DELI RAPIDS SD									X				16	0.13
BIG SIOUX R AT NORTH CLIFF AVE A						X							16	0.13
REILIE FOURCHE R AT WY-SD STATE L				X	XY	XX		XX					7	0.57
80154 SUSP SED														

MISSOURI R AT PIERRE SD							O	XX	XX	XX	X		5	1.00
MISSOURI R AT FORT RANDALL SD				X			O	O	X	XX	XX		8	0.13
BIG SIOUX R NEAR DELI RAPIDS SD			XY	O			O	O	X	XX	XX		8	0.88
BIG SIOUX R AT AKRON IA				O	XX	XX	X	XX	XX	XX	XX		0	0.88
JAMES R AT COLUMBIA SD						X							6	0.17
JAMES R NEAR SCOTLAND SD			XY	XX	O	X		XX	XX	O	O		6	0.89
WHITE R NEAR OACOMA SD			XY	XX	X	XX	XX	XX	XX	XX	XX		0	0.78
CHEYENNE R AT CHERRY CREEK SD			XY	XX	X	XX	XX	X	XX	XX	XX		0	1.00
REILIE FOURCHE R NEAR FILM SPRINGS			XY	YY	XX	XX	XX	XX	XX	X	X		10	1.00
CASTLE CR ABOVE DEFREFIELD RES NE			XX	X	XX	XX	XX	XX		X	O		10	0.80
MOREAU R NEAR WHITEHORSE SD						XX	X	X		XX			6	0.67
00940 CHLORIDE														

BIG SIOUX R AT NORTH CLIFF AVE A			X										4	0.25
00945 SULFATE														

JAMES R NEAR SCOTLAND SD		X	X										12	0.17
CHEYENNE R BELOW ANGOSTURA DAM SD		X	X	X	X	X		X					6	1.00
CHEYENNE R NEAR BUFFALO GAP SD		XY	XX	X	X	XX	X	Y	XX	XX	YY	XX	12	1.00
CHEYENNE R AT CHERRY CREEK SD		XY	XX	O	XX	YY	O	X	XX	YY	Y	YY	12	1.00
CHEYENNE R NEAR EAGLE BUTTE SD		X	YY	XX	X	XY	YY	X	X	XX	YY	Y	12	1.00
REILIE FOURCHE R AT WY-SD STATE L		XY	YY	X	X	XX		Y	X	XX	YY	XX	12	0.92
REILIE FOURCHE R NEAR STURGIS SD		XY			X	X	Y	X	XX	X	XX	XX	11	1.00
REILIE FOURCHE R NEAR FILM SPRINGS		XY		X	X	X		X	X		XX	YY	0	1.00
HORSE CR NEAR VALE SD		XY		X	XX	XX	X	XX	X	XY	X	XX	11	1.00
INLET CANAL NEAR REILIE FOURCHE SD		O	O	X		X	X	Y	X	X	O	O	11	0.82
MOREAU R NEAR WHITEHORSE SD						Y	X	X				YY	7	0.57
GRAND R AT SHADEHILL SD		O			O			O		O			5	0.80

00608 NH₃+NHA-

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%

X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 50%

XX- EXCEEDS CRITERIA BY MORE THAN 50%

TABLE 11. TABLE OF STATIONS WHERE WATER QUANTITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEDEENCE PROBABILITY
00610 NH3+NH4-													1	1.00
BIG SIOUX NEAR WATERTOWN	X												6	0.17
VERMILLION R NEAR WAKONDA								X					4	0.50
JAMES RIVER ABOVE MITCHELL				X				XX					3	0.73
JAMES RIVER BELOW MITCHELL								XX					6	0.17
JAMES RIVER NORTH OF YANKTON								XX					2	0.50
TIN RIVER SECTION 30 RAPID CREEK					X								2	0.50
RAPID CREEK NEAR FARMINGDALE								X						
01002 ARSENIC														
WHITEWOOD CREEK NEAR DEADWOOD													9	0.33
WHITEWOOD CREEK AT PLUMA								XX	X	XX	XX	XX	9	0.56
WHITEWOOD CREEK NEAR WHITEWOOD												XX	11	0.18
TIN RIVER SECTION 30 RAPID CREEK												X	5	0.20
01034 CHROMIUM														
WHITE R NEAR DACOMA SD								XX					4	0.25
BELLE FCH. R. BELOW CONFLUENCE								XX					2	0.33
BELLE FOURCHE R NEAR ELM SPRINGS								XX					1	0.67
WHITEWOOD CREEK AT DEADWOOD								XX					1	0.33
WHITEWOOD CREEK AT CROOK CITY								X	XX				1	0.67
WHITEWOOD CR. ABOVE BELLE FCH.								XX					1	0.67
01147 SELENIUM														
WHITE R NEAR DACOMA SD								XX					4	0.25
CHEYENNE R AT CHERRY CREEK SD								XX					4	0.25
71900 MERCURY														
MISSOURI R AT PIERRE SD									XX				4	0.25
BIG SIOUX R NEAR DELT. RAPIDS SD								X					8	0.25
WHITE R NEAR DACOMA SD									X				4	0.25
01042 COPPER														
WHITE R NEAR DACOMA SD									XX				4	0.25
CHEYENNE R AT CHERRY CREEK SD									XX				4	0.25

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 11. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEDEENCE PROBABILITY
01051 1.FAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	4	0.25
WHITE R NEAR OACOMA SD	-	-	-	-	-	-	-	XX	-	-	-	-	-	-
01092 2.TMC	-	-	-	-	-	-	-	-	-	-	-	-	4	0.25
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	4	0.25
WHITE R NEAR OACOMA SD	-	-	-	-	-	-	-	-	XX	-	-	-	-	-
CHEYENNE R AT CHERRY CREEK SD	-	-	-	-	-	-	-	-	X	-	-	-	-	-
01027 CADMUM	-	-	-	-	-	-	-	-	-	-	-	-	3	0.33
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	4	0.25
JAMES R AT COLUMBIA SD	-	-	-	-	-	-	-	-	X	-	-	-	-	-
WHITE R NEAR OACOMA SD	-	-	-	-	-	-	-	-	XX	-	-	-	-	-

PROCESSING COMPLETE FOR REQUESTED PERIOD

Table 12. Water Quality Trends

Stations and Parameters where Significant Statistical Differences were Observed.

Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Missouri R at Oahe Dam			D	D			D		D		D Mg
Missouri R at Pierre	D			D			D	D		D	D Hg*
Missouri R at Big Bend				D	I		D				
Missouri R at Ft Randall				D	I		D				D Cd
Big Sioux R abv Watertown	I*				I		I				
Big Sioux R Nr Brookings	I										
Big Sioux R Nr Dell Rapids	D *		D *				I				D Hg
Big Sioux R at Sioux Falls			I*		D				I		
Big Sioux R at Brandon	I	I			D	I *					
Big Sioux R Nr Canton	D *	I	I *								
Big Sioux R Nr Hudson	D *	D									
Big Sioux R Nr Alcester	D	I *									
Big Sioux R at Akron, IA	D										D Zn
Big Sioux R Nr Richland	D										
James R Nr Hecla					I						
James R at Columbia								I			
James R Abv Huron		I		I							
James R at Huron			D *								
James R abv Mitchell			D *	I							
James R Nr Scotland	D			I							
James R Abv Yankton			D *			D *					
Keya Paha R Nr Wewela			D *		D *			I			

Table 12 (continued). Water Quality Trends

SOUTH DAKOTA

Stations and Parameters where Significant Statistical Differences were Observed.
 Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
White R Nr Oglala						I					
White R Nr Kadoka	D		D*								
White R Nr Oacoma											D _{Hg}
Little White R Nr White River			D*			D					
Cheyenne R at Edgemont						I					
Cheyenne R blw Angosture Dam				I			I			I	
Cheyenne R Nr Buffalo Gap			D*								
Cheyenne R Nr Wasta				D							
Cheyenne R at Cherry Cr											D _{Zn} D _{Cu*}
Cheyenne R Nr Eagle Butte			I *	D							
Belle Fourche R at Wy-SD Line				D	D*		D*				
Belle Fourche R Nr Belle Fourche				D		D					
Spearfish Cr at Spearfish				D							
Rapid Cr Nr Rochford								I			
Rapid Cr blw Pactola Dam									I		
Rapid Cr abv Rapid City	D		D				I	I			
Rapid Cr Nr Farmingdale				D							
Battle Cr Nr Keystone			D	D							
French Cr Nr Custer			D *								
French Cr in Custer St. Park				D							
Grand R Nr Little Eagle	D										
Grand R at Shadehill N Fork				I	I		I				
Grand R at Shadehill				I	I						

Table 13. Ranking of Critical Water Quality Stations by Pollutant Group

<u>Fecal Coliform</u>	<u>Exceed. Prob.</u>	<u>No. Mos. Exc'd</u>	<u>Avg. Conc. mg/l</u>
1. Jordan R at 1700 S, SLC	0.71	5	5557
2. Virgin R at Bloomington	1.00	7	587
3. Jordan R at 5800 S, Murray	0.38	5	2208
4. Paria R at White House Ruins	0.33	3	1735
5. Virgin R at Littlefield	0.50	5	552
<u>Nitrogen</u>			
1. Jordan R at Cudahy Lane, SLC	0.53	6	4.34
2. Jordan R at 1700 S, SLC	0.60	5	4.57
3. Jordan R at 5800 S, Murray	0.53	7	3.70
<u>Phosphorus</u>			
1. Jordan R at 1700 S, SLC	1.00	10	3.56
2. Weber R nr Plain City	1.00	11	1.05
3. Jordan R at Cudahy Lane, SLC	1.00	9	1.06
4. Jordan R at 5800 S, Murray	1.00	11	0.57
5. San Juan R at Shiprock, NM	0.92	11	0.46
6. San Juan R at Bluff	0.80	7	0.35
7. Green R at Green River	0.80	7	0.30
8. Bear R at Corinne	1.00	10	0.18
<u>Dissolved Solids</u>			
1. Bitter Cr nr Bonanza	1.00	5	12576
2. San Rafael R nr Green River	1.00	8	3163
3. Ferron Cr nr Clawson	0.92	10	2284
4. Price R at Woodside	1.00	7	3284
5. Virgin R at Littlefield	1.00	11	1854
6. Paria R at White House Ruins	1.00	10	1751
7. Muddy Cr nr Hanksville	1.00	6	2258
8. Virgin R at Bloomington, AZ	0.89	8	1758
9. Jordan R - Murray to SLC	1.00	10	1100 *
10. Duchesne R nr Randlett	1.00	10	1046

Table 13 (Continued). Ranking of Critical Water Quality Stations
by Pollutant Group

<u>Suspended Sediment</u>	<u>Exceed. Prob.</u>	<u>No. Mos. Exc'd</u>	<u>Avg. Conc. mg/l</u>
1. San Juan R nr Shiprock, NM	1.00	12	5877
2. San Juan R nr Bluff	0.92	8	5268
3. Green R at Green River	0.92	8	5264
4. Muddy Cr nr Hanksville	1.00	5	6130
5. White R nr mouth	0.91	7	2428
6. Price R at Woodside	0.88	5	1901
7. Virgin R at Bloomington, AZ	1.00	7	516
8. Colorado R nr Cisco	0.82	6	683
9. Virgin R at Littlefield, AZ	1.00	6	480
10. Bear R nr Corinne	0.89	7	178

<u>Trace Elements</u>			
1. Jordan R at 1700 S, SLC	0.80	5	(Hg)

TABLE 14. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
00300 DO														

PARIA R. AT WHITE HOUSE RUINS NR GLEN CA							O						9	0.11
GREEN RIVER AT GREEN RIVER, UTAH							X						7	0.14
PRICE RIVER AT WOODSIDE, UTAH								XX					8	0.13
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI								O					11	0.09
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE							X	X	X				12	0.33
31625 FEC COLI														

BEAR RIVER ABOVE RESERVOIR NEAR WOODRUFF							X						12	0.08
BEAR R AT BORDER WY													12	0.25
BEAR R NR CORINNE	O	X				O		X	XX	XX			9	0.78
COLORADO R AT LEFS FERRY, AZ.							X	XX					12	0.08
VIRGIN R. AT BLOOMINGTON, UT	X		X		X	XX		XX	XX	XX			7	1.00
VIRGIN R AT LITTLEFIELD, AZ	XX	XX	XX	X							O		10	0.50
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA				XX				XX		XX			9	0.33
GREEN RIVER AT GREEN RIVER, UTAH				XX									8	0.13
WHITE RIVER AT MOUTH NEAR OURAY UTAH						O							8	0.13
DOLORES RIVER NEAR CISCO, UT.						X							6	0.17
JORDAN RIVER @ 5800 SO MURRAY UTAH				XX			XX	XX	XX	XX			13	0.38
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	XX				XX	XX	X	XX					7	0.71
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE				X			XX	XX	XX	XX			14	0.50
SEVIER RIVER NEAR LYNNSDYL, UTAH						O							5	0.20
WERER RIVER NR PLAIN CITY UTAH								X	X				9	0.22
JORDAN RIVER @ 5800 SO MURRAY UTAH			XX				XX	XX	XX	XX			13	0.38
31501 TOT COLI														

WHITE RIVER AT MOUTH NEAR OURAY UTAH								XX					8	0.13
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX						XX	XX	XX	XX			12	0.50
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE						O	XX	XX	XX	XX			14	0.36
JORDAN RIVER @ 5800 SO MURRAY UTAH			XX				XX	XX	XX	XX			12	0.50
00600 TOTAL N														

SAN JUAN RIVER AT SHIPROCK, NM					X								12	0.08
PRICE RIVER AT WOODSIDE, UTAH						O							9	0.11
WHITE RIVER AT MOUTH NEAR OURAY UTAH				O				X				X	11	0.27
DOLORES RIVER NEAR CISCO, UT.										O			7	0.14
JORDAN RIVER @ 5800 SO MURRAY UTAH	O					O	X	O	O	O		X	17	0.53
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	X	O					X			X		X	10	0.60
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE	X	X				O	X	X	X			X	15	0.53
JORDAN RIVER @ 5800 SO MURRAY UTAH	O				O	X	O	O	O			X	17	0.53
00665 PHOS-TOT														

BEAR RIVER ABOVE RESERVOIR NEAR WOODRUFF	X	XX			XX					XX		XX	12	0.50
REAR R AT BORDER WY						X			X			X	12	0.17

LEGEND: O- EXCEEDS CRITERIA BY 1FSS THAN 15%
 X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
 XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 14. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OPS	EXCEEDENCE PROBABILITY
REAR R NR CORINNE	-	-	X	XX	XX	XX	-	XX	XX	XX	-	X	11	1.00
COLORADO RIVER NEAR CISCO UTAH	-	-	-	-	-	-	XX	XX	XX	-	-	-	10	0.40
COLORADO RIVER AT HIGHWAY BRIDGE NR MOAB	-	-	-	-	-	-	XX	XX	XX	-	-	-	8	0.50
COLORADO R ABOVE MILL CREEK NEAR MOAB UT	-	-	-	-	-	-	XX	-	-	-	-	-	10	0.40
VIRGIN R AT LITTLEFIELD, AZ	-	-	-	-	-	-	X	-	-	-	-	-	3	0.33
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA	-	-	-	-	-	-	XX	-	-	-	-	-	1	1.00
SAN JUAN RIVER AT SHIPROCK, NM	-	XX	-	-	XX	XX	-	X	XX	XX	XX	-	12	0.92
SAN JUAN RIVER NEAR BLUFF, UTAH	-	-	XX	-	XX	XX	-	XX	XX	XX	XX	XX	10	0.80
GREEN RIVER NEAR GREENDALE, UTAH	-	-	X	-	-	-	-	-	XX	-	-	-	11	0.18
GREEN RIVER AT GREEN RIVER, UTAH	-	-	XX	X	-	XX	-	XX	-	X	-	-	10	0.80
COTTONWOOD CR. ABV STR.CANYON, NR ORANGEVIT	-	-	-	-	-	-	-	-	-	-	-	XX	2	0.50
PRICE RIVER AT WOODSIDE, UTAH	-	-	-	-	-	-	X	XX	-	-	-	-	9	0.33
WHITE RIVER AT MOUTH NEAR OURAY UTAH	-	-	-	-	XX	X	XX	-	-	X	-	-	11	0.36
DUCHESE RIVER NEAR RANDLETT, UTAH	-	-	-	-	XX	X	-	-	XX	-	-	-	10	0.30
DOLORES RIVER NEAR CISCO, U.T.	-	-	-	-	-	-	XX	-	X	-	-	-	7	0.29
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	17	1.00											
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	XX	11	1.00											
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE	XX	15	1.00											
SEVIER RIVER NEAR LYNNDELL, UTAH	-	-	-	X	-	-	-	XX	-	-	-	-	10	0.40
WEBER RIVER NR PLAIN CITY UTAH	XX	11	1.00											
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	17	1.00											

00650 T P04

REAR RIVER ABOVE RESERVOIR NEAR WOODRUFF	-	-	-	-	-	-	XX	-	-	-	-	-	3	0.33
REAR R AT BORDER WY	-	-	-	-	-	-	XX	-	-	-	-	-	3	0.33
REAR R NR CORINNE	-	-	-	-	-	-	XX	XX	XX	-	-	-	3	1.00
COLORADO RIVER NEAR CISCO UTAH	-	-	-	-	-	-	XX	-	-	-	-	-	2	1.00
COLORADO RIVER AT HIGHWAY BRIDGE NR MOAB	-	-	-	-	-	-	XX	-	-	-	-	-	2	1.00
COLORADO R ABOVE MILL CREEK NEAR MOAB UT	-	-	-	-	-	-	XX	-	-	-	-	-	2	1.00
SAN JUAN RIVER AT SHIPROCK, NM	-	-	-	-	-	-	XX	XX	X	-	-	-	3	1.00
SAN JUAN RIVER NEAR BLUFF, UTAH	-	-	-	-	-	-	XX	-	-	-	-	-	2	1.00
GREEN RIVER AT GREEN RIVER, UTAH	-	-	-	-	-	-	XX	-	-	-	-	-	2	1.00
PRICE RIVER AT WOODSIDE, UTAH	-	-	-	-	-	-	XX	-	-	-	-	-	2	1.00
WHITE RIVER AT MOUTH NEAR OURAY UTAH	-	-	-	-	-	-	XX	-	-	-	-	-	8	0.13
DUCHESE RIVER NEAR RANDLETT, UTAH	-	-	-	-	-	-	XX	X	-	-	-	-	3	0.67
DOLORES RIVER NEAR CISCO, U.T.	-	-	-	-	-	-	XX	-	-	-	-	-	2	0.50
JORDAN RIVER @ 5800 SO MURRAY UTAH	-	-	-	-	-	-	XX	XX	XX	-	-	-	5	1.00
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	-	-	-	-	-	-	XX	XX	XX	-	-	-	3	1.00
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE	-	-	-	-	-	-	XX	XX	XX	-	-	-	5	1.00
SEVIER RIVER NEAR LYNNDELL, UTAH	-	-	-	-	-	-	XX	-	-	-	-	-	2	0.50
WEBER RIVER NR PLAIN CITY UTAH	-	-	-	-	-	-	XX	XX	XX	-	-	-	3	1.00
JORDAN RIVER @ 5800 SO MURRAY UTAH	-	-	-	-	-	-	XX	XX	XX	-	-	-	5	1.00

70300 RESIDUE

REAR R NR CORINNE	X	X	X	-	-	-	XX	XX	XX	XX	X	X	11	0.82
COLORADO RIVER NEAR CISCO UTAH	-	-	-	X	-	-	X	-	XX	-	X	X	10	0.80
COLORADO RIVER AT HIGHWAY BRIDGE NR MOAB	X	-	X	X	-	-	O	X	XX	XX	-	-	18	0.72
COLORADO R ABOVE MILL CREEK NEAR MOAB UT	X	X	X	X	-	-	O	X	XX	XX	XX	XX	19	0.74

LEGEND: O= EXCEEDS CRITERIA BY LESS THAN 15%

X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 14. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
COLORADO R AT LFFS FERRY, AZ.	0	0	X	X	X	X	X	X	X	X	0	11	1.00	
VIRGIN R. AT BLOOMINGTON,UT	XX	XX	0	XX	9	0.89								
VIRGIN R AT LITTLEFIELD, AZ	XX	XX	XX	X	0	XX	XX	XX	XX	XX	11	1.00		
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA	XX	10	1.00											
SAN JUAN RIVER AT SHIPROCK, NM	0	0	0	0	0	0	0	0	0	0	12	0.25		
SAN JUAN RIVER NEAR BLUFF, UTAH	X	X						X	X	X	10	0.50		
GRFFN RIVER NEAR GREENDALE, UTAH	0	0	0	0							11	0.36		
GRFEN RIVER AT GREEN RIVER, UTAH	X	0	X					X	X	X	10	0.70		
SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH	XX	9	1.00											
PRICE RIVER AT WOODSIDE, UTAH	XX	XX	XX	XX	X	XX	XX	XX	XX	XX	9	1.00		
WHITE RIVER AT MOUTH NEAR DURAY UTAH	X	0	X			0	0	0	X	0	11	0.73		
HILL'S HOLE CAN AT MOUTH NR WATSON UT	0	0									1	1.00		
DUCHESENE RIVER NEAR RANDLETT, UTAH	XX	X	X	X	X	X	XX	X	XX	XX	10	1.00		
DOLORES RIVER NEAR CISCO,UT.							XX	XX	XX	XX	7	0.71		
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	16	1.00											
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	XX	XX	XX	X	XX	XX	XX	XX	XX	XX	11	0.91		
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE	XX	XX	X	X	X	XX	XX	XX	XX	XX	15	0.93		
SEVIER RIVER NEAR LYNNDELL, UTAH	XX	10	1.00											
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	16	1.00											

70301 DISS SOL

RIVER R NR CORINNE	X	X	X	0	0	XX	XX	XX	XX	X	11	1.00
COLORADO RIVER NEAR CISCO UTAH	X		X			X		X		X	10	0.80
COLORADO RIVER AT HIGHWAY BRIDGE NR MOAB			X			0		XX			6	0.67
COLORADO R ABOVE MILL CREEK NEAR MOAB UT			X			0		XX			6	0.67
COLORADO R AT LEFS FERRY, AZ.	0	0	X	X	X	0	0	0	0	0	11	1.00
VIRGIN R. AT BLOOMINGTON;UT	XX		XX		XX	XX	XX	XX	XX		9	0.78
VIRGNT R AT LITTLEFIELD, AZ	XX	XX	XX	X		XX	XX	XX	XX	XX	11	0.91
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA	XX	9	1.00									
SAN JUAN RIVER AT SHIPROCK, NM	0	0	0			0		0			12	0.42
SAN JUAN RIVER NEAR BLUFF, UTAH	X	XX	0				X		X		10	0.60
MUDY CR AT DELTA MINE NR HANKSVILLE, UT	XX	XX	XX	X	XX	XX					6	1.00
MUDY CREEK AT MOUTH NR HANKSVILLE, UT.		XX	XX	XX	XX	XX					5	1.00
GRFEN RIVER NEAR GRFENDALE, UTAH	0	0	0								11	0.27
GREEN RIVER NEAR JENSEN, UTAH	0										12	0.08
GREEN RIVER AT GREEN RIVER, UTAH	0	X		X			X		X		10	0.70
SAN RAFAEL R AT SAN R RR CAMPGROUND NR C	XX	XX		XX		X	XX	XX	XX	XX	11	1.00
SAN RAFAEL RIVER NEAR GRFEN RIVER, UTAH	XX	10	1.00									
FERRON CREEK BEL PARADISE RANCH NR CLAWS	XX	XX		XX	12	0.92						
PRICE RIVER AT WOODSIDE, UTAH	XX	XX	XX	X		XX	XX	XX	XX	XX	8	1.00
GRASSY TRAIL CREEK AT SUNNYSIDE, UTAH	XX	XX	XX			X	XX	XX	XX	XX	11	0.73
WHITE R NR WATSON UT	0	X					0				7	0.43
WHITE RIVER AT MOUTH NEAR DURAY UTAH	X	X	X			0	0	0	X	0	13	0.69
PITTER CR AT MOUTH NR BONANZA UT	XX	XX	XX			XX			XX		5	1.00
HILL'S HOLE CAN AT MOUTH NR WATSON UT			X								1	1.00
DUCHESENE RIVER NEAR RANDLETT, UTAH	XX	X	X	X	X	XX	X	XX	XX	XX	11	1.00
HENRYS FORK NR MANILA, UT	XX	X	X	X	XX	XX	XX	XX	XX	XX	11	0.91
DOLORES RIVER NEAR CISCO,UT.		XX	XX			XX	XX	XX	XX	XX	18	0.78
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	XX	XX	X	XX	XX	XX	XX	XX	XX	14	1.00

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%
 X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
 XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 14. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	XX	XX	XX	X	-	X	XX	-	XX	XX	XX	XX	11	0.91
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE	XX	XX	X	X	X	X	XX	XX	XX	-	XX	XX	13	0.92
SEVIER RIVER NEAR LYNNDDYL, UTAH	XX	10	1.00											
JORDAN RTVER @ 5800 SO MURRAY UTAH	-	-	XX	XX	X	XX	XX	XX	XX	XX	-	-	14	1.00
00095 CONDUCTIVITY														

BEAR RIVER ABOVE RESERVOIR NEAR WOODRUFF	XX	21	1.00											
BEAR R AT BORDER WY	XX	20	1.00											
BEAR R NR CORINNE	XX	16	1.00											
COLORADO RIVER NEAR CISCO UTAH	XX	10	1.00											
COLORADO RIVER AT HIGHWAY BRIDGE NR MOAB	XX	18	1.00											
COLORADO R ABOVE MTLL CRFEEK NEAR MOAB UT	XX	21	1.00											
COLORADO R AT LEES FERRY, AZ.	XX	10	1.00											
VIRGIN R. AT BLOOMINGTON, UT	XX	9	1.00											
VIRGIN R AT LITTLEFIELD, AZ	XX	11	1.00											
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA	XX	10	1.00											
SAN JUAN RIVER AT SHIPROCK, NM	XX	12	1.00											
SAN JUAN RIVER NEAR BLUFF, UTAH	XX	10	1.00											
DIRTY DEVIL R AR POISON SP WA NR	XX	-	-	-	-	-	-	-	-	-	-	-	5	1.00
MUDGY CR AT DELTA MINE NR HANKSVILLE, UT	XX	XX	-	-	-	-	-	-	-	-	-	-	6	1.00
MUDGY CREEK AT MOUTH NR HANKSVILLE, UT	-	-	-	-	-	-	-	-	-	-	-	-	9	1.00
GREEN RIVER NEAR GREENDALE, UTAH	XX	11	1.00											
GREEN RIVER NEAR JENSEN, UTAH	XX	12	1.00											
GREEN RIVER AT GREEN RIVER, UTAH	XX	10	1.00											
SAN RAFAEL R AT SAN R BR CAMPGROUND NR C	XX	XX	-	-	-	-	-	-	-	-	-	-	11	1.00
SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH	XX	-	XX	10	1.00									
FERRON CREEK BFL PARADISE RANCH NR CLAWS	XX	XX	-	-	-	-	-	-	-	-	-	-	12	1.00
HUNTINGTON CREEK NEAR HUNTINGTON, UTAH	XX	12	1.00											
COTTONWOOD CR, ABV STR,CANYON,NR ORANGEVI	-	-	-	-	-	-	-	-	-	-	-	-	6	1.00
COTTONWOOD CREEK NEAR ORANGEVILLE, UTAH	XX	12	1.00											
PRICE RIVER AT WOODSIDE, UTAH	XX	-	-	-	-	-	-	-	-	-	-	-	10	1.00
GRASSY TRAIL CREEK AT SUNNYSIDE, UTAH	XX	12	1.00											
WHITE R NR WATSON UT	-	-	XX	7	1.00									
WHITE RIVER AT MOUTH NEAR OURAY UTAH	XX	13	1.00											
BITTER CR AT MOUTH NR BONANZA UT	XX	6	1.00											
HELL'S HOE CAN AT MOUTH NR WATSON UT	-	-	-	-	-	-	-	-	-	-	-	-	1	1.00
DUCHESNE RIVER NEAR RANDLETT, UTAH	XX	11	1.00											
STRAWBERRY RIVER NEAR DUCHESNE,	XX	10	1.00											
HENRY'S FORK NR MANILA, UT	XX	12	1.00											
MILL CR NR MOAB UTAH	XX	11	1.00											
DOLORES RIVER NEAR CISCO,UT.	XX	19	1.00											
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	18	1.00											
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	XX	11	1.00											
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE	XX	15	1.00											
SEVIER RIVER BELOW PIUTE DAM NR MARYSVLG	XX	XX	-	-	-	-	-	-	-	-	-	-	10	1.00
SEVIER RIVER NEAR LYNNDDYL, UTAH	XX	10	1.00											
WEHNER RIV AT GATEWAY UTAH	XX	12	1.00											
WEHNER RIVER NR PLAIN CITY UTAH	XX	13	1.00											
JORDAN RIVER @ 5800 SO MURRAY UTAH	XX	18	1.00											

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%
 X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
 XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 14. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY
00070 TURB														
*****	***	***	***	***	***	***	***	***	***	***	***	***	12	0.25
BEAR R AT BORDER WY					XX									
VIRGIN R. AT BLOOMINGTON,UT	XX		XX	XX									5	0.60
VIRGIN R AT LITTLEFIELD, AZ	XX	XX	XX	XX									6	0.83
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA	XX	XX	XX	XX									4	1.00
00530 RESIDUE														
*****	***	***	***	***	***	***	***	***	***	***	***	***	8	0.63
COLORADO RIVER AT HIGHWAY BRIDGE NR MOAB	XX	XX	XX			XX								
COLORADO R ABOVE MILL CREEK NEAR MOAB UT	XX	XX	XX			XX							10	0.50
SAN JUAN RIVER AT SHIPROCK, NM	XX	XX	XX	X	O	O	XX	XX					11	0.82
SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH			XX	XX				X					10	0.50
PRICE RIVER AT WOODSIDE, UTAH			XX	XX			XX						8	0.50
WHITE RIVER AT MOUTH NEAR OURAY UTAH										X			2	0.50
DUCHESSNE RIVER NEAR RANDLETT, UTAH	X	XX	XX										10	0.30
JORDAN RIVER @ 5800 SO MURRAY UTAH	X												17	0.12
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE			X										15	0.13
JORDAN RIVER @ 5800 SO MURRAY UTAH	X												17	0.12
70299 RES-SUSP														
*****	***	***	***	***	***	***	***	***	***	***	***	***	3	0.33
WHITE RIVER AT MOUTH NEAR OURAY UTAH				XX										
80154 SUSP SEN														
*****	***	***	***	***	***	***	***	***	***	***	***	***	12	0.17
REAR R AT BORDER WY					X								9	0.89
REAR R NR CORINNE	X		XX	X	X		XX	XX	XX				11	0.82
COLORADO R NEAR CISCO UTAH	XX	XX	XX	XX	XX		XX						17	0.24
COLORADO R AT LEES FERRY, AZ	X				X									
VIRGIN R. AT BLOOMINGTON,UT	XX		XX			XX	X	XX	X	XX			7	1.00
VIRGIN R AT LITTLEFIELD, AZ	XX					XX	XX	O	O	XX			6	1.00
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA	XX	XX		XX	XX			XX		XX			6	1.00
SAN JUAN RIVER AT SHIPROCK, NM	XX		19	1.00										
SAN JUAN RIVER NEAR BLUFF, UTAH	XX	XX	XX	XX	XX		XX	XX	XX				12	0.92
MUDY CR AT DELTA MINE NR HANKSVILLE, UT					XX	XX	XX	X					4	1.00
MUDY CREEK AT MOUTH NR HANKSVILLE, UT.					XX	XX	XX	XX	XX				5	1.00
GREEN RIVER NEAR JENSEN, UTAH					XX	XX	XX		XX				4	1.00
GREEN RIVER AT GREEN RIVER, UTAH	XX	XX	XX	XX	XX	XX	X	XX	X				13	0.92
SAN RAFAEL R AT SAN R RR CAMPGROUND NR C					XX	XX	XX	X	X				5	1.00
SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH	XX	XX	XX				X		XX				8	0.88
FERRON CREEK BFI PARADISE RANCH NR CLAWS					O	X			XX				5	0.60
HUNTINGTON CRFk NEAR HUNTINGTON, UTAH					X	XX	X	X					9	0.44
COTTONWOOD CREEK NEAR ORANGEVILLE, UTAH					XX	XX							5	0.40
PRJC RIVER AT WOODSIDE, UTAH					XX	XX	XX		XX				8	0.88
WHITE R NR WATSON UT							XX						2	0.50
WHITE RIVER AT MOUTH NEAR OURAY UTAH					XX	XX	XX	XX	XX				23	0.91
HILL'S HOLE CAN AT MOUTH NR WATSON UT					XX								1	1.00
DUCHESSNE RIVER NEAR RANDLETT, UTAH					XX	XX	X						6	0.50

LEGEND: O= EXCEEDS CRITERIA BY LESS THAN 15%

X= EXCEEDS CRITERIA BY MORE THAN 15% & IFSS THAN 85%

XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 14. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OVS	EXCEEDENCE PROBABILITY
DOLORES RIVER NEAR CISCO, UT.					XX		X						3	1.00
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI				O	X	XX							7	0.43
SEVIER RIVER NEAR LYNNDELL, UTAH				X	X	XX		X					8	0.63
00940 CHLORIDE														

BEAR R NR CORTINNE								XX	XX	XX		XX	11	0.45
VIRGIN R. AT BLOOMINGTON, UT	O					X	XX	XX	XX	X			9	0.67
VIRGIN R AT LITTLEFIELD, AZ	X					X	X	X	X	X		X	11	0.64
MUDY CR AT DELTA MINE NR HANKSVILLE, UT	XX	X											6	0.33
MUDY CRFEEK AT MOUTH NR HANKSVILLE, UT.		XX	X	O		XX							5	0.80
BITTER CR AT MOUTH NR BONANZA UT	O					XX			O				5	0.60
DOLORES RIVER NEAR CISCO, UT.			XX	XX			X	XX	XX	XX	XX	XX	19	0.74
JORDAN RIVER @ 5800 SO MURRAY UTAH	X			O	O	O	X	X	X		X		17	0.59
SEVIER RIVER NEAR LYNNDELL, UTAH	X	XX	X	O	O	O	O	O	X		O		10	1.00
JORDAN RIVER @ 5800 SO MURRAY UTAH	X			O	O	O	X	X	X		X		17	0.59
00945 SULFATE														

COLORADO RIVER NEAR CISCO UTAH				O				X		X	O	10	0.50	
COLORADO RIVER AT HIGHWAY BRIDGE NR MOAB				O				XX					8	0.38
COLORADO R ABOVE MILL CREEK NEAR MOAB UT	O		X					X			X		10	0.50
COLORADO R AT LEFS FERRY, AZ.	O	O	O	O	O		O	O					11	0.64
VIRGIN R. AT BLOOMINGTON, UT	XX	X			XX	XX	XX	XX	XX	XX			9	0.78
VIRGIN R AT LITTLEFIELD, AZ		XX	XX	X		XX	11	0.82						
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA	XX		10	1.00										
SAN JUAN RIVER AT SHIPROCK, NM								O	O				12	0.17
SAN JUAN RIVER NEAR BLUFF, UTAH			X	X						X		X	10	0.50
MUDY CR AT DELTA MINE NR HANKSVILLE, UT	XX	XX		XX	X	XX	XX						6	1.00
MUDY CREEK AT MOUTH NR HANKSVILLE, UT.		XX	XX	XX	XX	XX	XX						5	1.00
GREEN RIVER NEAR GREENDALE, UTAH													11	0.0
GREEN RIVER AT GREEN RIVER, UTAH					X				O	O	O	10	0.40	
SAN RAFAEL R AT SAN R HR CAMPGROUND NR C	XX	XX		XX		X	XX	XX	XX	XX	XX	XX	11	1.00
SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH		XX		XX	XX	XX		XX		XX		XX	9	1.00
FERRON CREEK BEL PARADISE RANCH NR CLAWS	XX	XX		XX	XX		XX	XX	XX	XX	XX	XX	12	0.92
PRICE RIVER AT WOODSIDE, UTAH	XX		XX	XX	X		XX		XX				8	1.00
GRASSY TRAIL CRFEEK AT SUNNYSIDE, UTAH	XX	XX	XX				X	XX	O	XX	XX	12	0.67	
WHITE R NR WATSON UT				X									7	0.14
WHITE RIVER AT MOUTH NEAR OURAY UTAH				O									13	0.08
BITTER CR AT MOUTH NR BONANZA UT		XX		XX			XX						5	1.00
DUCESNE RIVER NEAR RANDLETT, UTAH	XX	X	X	X	X	X		XX	X	XX	XX	XX	11	0.91
HENRYS FORK NR MANILA, UT	XX	X	X	X	XX	O	XX	XX					10	1.00
DOLORES RIVER NEAR CISCO, UT.			X	XX				X	XX	XX	XX	XX	10	0.67
JORDAN RIVER @ 5800 SO MURRAY UTAH	X	O	O	O	X	X	X	X	X	X		X	17	0.94
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI	X	O	O			X				X	X		11	0.73
JORDAN RIVER @ CUDAHY LANE NR SALT LAKE	X					O	X	X		X	X		15	0.47
SEVIER RIVER NEAR LYNNDELL, UTAH	X		XX	X	O	O	O	X					10	0.70
JORDAN RIVER @ 5800 SO MURRAY UTAH	X	O	O	O	X	X	X	X	X	X	X		17	0.94

00608 NH3+NH4+

LEGEND: O= EXCEEDS CRITERIA BY LESS THAN 15%

X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 14. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEDENCE PROBABILITY
DOLORES RIVER NEAR CISCO, UT.	---	---	---	---	---	---	---	---	---	---	XX	XX	2	1.00
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI										X	XX	XX	4	1.00
01034 CHROMIUM														

SAN JUAN RIVER AT SHIPROCK, NM				X									4	0.25
01147 SELENIUM														

PARIA R. AT WHITE HOUSE RUINS NR GLEN CA					O								1	1.00
71900 MERCURY														

BEAR R NR CORINNE						XX							5	0.20
COLORADO R AT LEES FERRY, AZ.							XX						3	0.33
VIRGIN R. AT BLOOMINGTON, UT								XX					2	0.50
VIRGIN R AT LITTLEFIELD, AZ								XX					2	0.50
PARIA R. AT WHITE HOUSE RUINS NR GLEN CA				XX									2	0.50
SAN JUAN RIVER NFAR BLUFF, UTAH					O								4	0.25
PRICE RIVER AT WOODSIDE, UTAH							XX			XX			1	1.00
WHITE RIVER AT MOUTH NFAR OURAY UTAH						XX			XX				4	0.50
DOLORES RIVER NEAR CISCO, UT.						XX							3	0.33
JORDAN RIVER @ 1700 SOUTH @ SALT LAKE CI					XX			XX		XX			5	0.80
SEVIER RIVER NEAR LYNNDDYL, UTAH					XX								3	0.33
WEBER RIVER NR PLAIN CITY UTAH						XX							5	0.20
01042 COPPER														

SAN JUAN RIVER AT SHIPROCK, NM				XX		XX							4	0.50
WHITE RIVER AT MOUTH NEAR OURAY UTAH					O								4	0.25
WEBER RIVER NR PLAIN CITY UTAH						XX							5	0.20
01092 ZINC														

SAN JUAN RIVER AT SHIPROCK, NM				XX			X						4	0.50
WEBER RIVER NR PLAIN CITY UTAH						X							5	0.20

Table 15.

Water Quality Trend Table

UTAH

Stations and Parameters where Significant Statistical Differences were Observed.

Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Bear R abv Reservoir nr Woodruff			D *								
Bear R at Border, WY							D				I Pb, Zn
Bear R at Corinne		D					D			D	
Colorado R nr Cisco								I		I	D Pb Cd
Colorado R nr Moab		I		I *							
Colorado R at Lees Ferry, AZ	D *			D			D			I	
Virgin R at Bloomington											I Cu
Paria R nr Glen Canyon Reservoir				D		D *	D			D	
San Juan R nr Bluff											D Pb Cd
Muddy Cr nr Hanksville				I *		I *	I *				
Green R nr Greendale	D	I									D Pb Cd
Green R at Green River		D			D *						D Pb Hg
Huntington Cr nr Huntington											I Pb
Cottonwood Cr nr Orangeville							D				
Price R at Woodside									D		
Grassy Trail Cr at Sunnyside											I Pb
White R nr Ouray	D										D Cr
Bitter Cr nr Bonanza										I	
Jordan R at 1700 S, SLC											I Zn
Jordan R at Cudaby Lane, SLC				I *						I	
Savier R nr Marysvale								I			
Savier R nr Lynndyl				I *							D Zn

Table 16. Ranking of Critical Water Quality Stations by Pollutant Group

<u>Fecal Coliform</u>	<u>Exceed. Prob.</u>	<u>No. Mos. Exc'd</u>	<u>Avg. Conc. mg/l</u>
1. Bitter Cr nr Kanda	1.00	9	100000+
2. Killpecker Cr at Rock Springs	0.88	6	100000+
3. Goose Cr blw Sheridan	1.00	11	62636
4. Hams Fork nr Diamondville	0.67	7	4375
5. Bighorn at Lucerne	0.33	3	3824
<u>Phosphorus</u>			
1. Killpecker Cr at Rock Springs	1.00	7	2.82
2. Bitter Cr nr Kanda	0.89	7	2.71
3. Salt Wells Cr nr Salt Wells	1.00	3	1.36
4. Goose Cr blw Sheridan	0.91	10	0.42
5. Whistle Cr nr Garland	1.00	2	1.29
6. Shoshone R nr Lovell	0.89	7	0.30
7. Bitter Cr nr Salt Wells	1.00	2	0.54
<u>Dissolved Solids</u>			
1. Salt Cr nr Sussex	1.00	11	4274
2. Beaver Cr nr Newcastle	1.00	11	3430
3. Bitter Cr nr Salt Wells	1.00	10	3671
4. Big Sandy R nr Eden	1.00	12	2721
5. Cheyenne R nr Riverview	1.00	10	3240
6. Casper Cr at Casper	1.00	10	3040
7. Little Powder R nr Weston	1.00	11	2743
8. Belle Fourche R nr Piney	1.00	11	2728
9. Powder R - Sussex to Arvada	1.00	12	1954
10. Blacks Fork nr Lyman	1.00	10	1992
<u>Suspended Sediments</u>			
1. Salt Wells Cr nr Salt Wells	1.00	6	11070
2. Blacks Fork nr Lyman	0.93	10	1094
3. Powder R at Sussex	1.00	10	1547

Table 16 (Continued). Ranking of Critical Water Quality Stations
by Pollutant Group

<u>Suspended Sediments</u>	<u>Exceed. Prob.</u>	<u>No. Mos. Exc'd</u>	<u>Avg. Conc. mg/l</u>
4. Medicine Bow R nr Hanna	1.00	12	425
5. Belle Fourche R blw Moorcroft	1.00	11	408
6. Little Powder R nr Weston	1.00	10	421
7. Salt Cr nr Sussex	1.00	11	861
8. Nowood Cr nr Tensleep	0.92	9	352
9. Bitter Cr nr Bitter Cr	0.94	10	1194
10. Shoshone R nr Lovell	1.00	9	214

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEED CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	EXCEDENCE PROBABILITY	
													ODS	PROBABILITY
00300	-	-	-	-	-	-	-	-	-	-	-	-	7	0.14
	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	12	0.08
I. POWDER R BE CORRAL C NR WESTON WY	-	-	-	-	-	-	-	0	-	-	-	-	1	1.00
I. POWDER RIVER AB DRY C NR WESTON, WY	-	-	-	-	-	-	-	0	-	-	-	-	10	0.10
HAMS FORK NEAR GRANGER, WYO.	-	-	-	-	-	-	-	-	X	-	-	-	10	0.10
KILLPECKER CREEK AT ROCK SPRINGS WYO	-	-	-	-	-	-	-	-	-	XX	-	-	10	0.10
NORTH PLATTE RIVER ABOVE PATHFINDER RES	-	-	-	-	-	-	-	-	-	X	-	-	11	0.18
NORTH PLATTE RIVER BELOW GLENWOOD RESERVO	-	-	-	-	-	-	-	-	-	XX	-	-	11	0.18
31625 FEC COLI	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	-	-
SOUTH FORK POWDER R. NR. KAYCEE, WYO.	-	-	-	-	-	-	-	XX	XX	XX	XX	XX	11	0.17
GOOSE CREEK BELOW SHERIDAN WYO	-	XY	XX	XY	XX	-	-	X	XX	XX	XX	XX	12	0.33
RIGHORN RIVER AT LUCERN, WYO.	-	-	-	-	-	-	-	-	X	XX	XX	-	12	0.00
GREEN RIVER BELOW GREEN RIVER WYO	-	-	-	-	-	-	-	-	-	-	-	-	12	0.00
HAMS FORK NEAR DIAMONDVILLE WY	-	XY	XX	-	XX	-	-	XX	-	XX	XX	XX	12	0.67
SMITHS FORK NEAR LYMAN, WY	-	-	-	-	-	-	-	-	-	XX	XX	XX	12	0.00
BITTER CR BEI. LITTLE BITTER CR NR KANDA	-	XX	XX	XX	-	-	-	XX	-	XX	XX	XX	11	1.00
KILLPECKER CREEK AT ROCK SPRINGS WYO	-	XY	XX	-	XX	-	-	X	-	XX	XX	XX	0	0.00
NORTH PLATTE RIVER BI. CASPER WYO	-	XX	-	-	-	-	-	-	-	-	-	-	22	0.14
LARAMIE RIVER AT HOWELL, WY	-	X	-	-	-	-	-	-	-	-	-	-	12	0.00
31501 TOT COLI	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	-	-
NORTH PLATTE RIVER BI. CASPER WYO	-	XY	0	XX	X	0	-	X	-	-	X	XX	21	0.48
00600 TOTAL N	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	-	-
CHEYENNE RIVER NR RIVERVIEW WY	-	-	-	-	-	-	-	-	XX	-	-	-	9	0.11
BITTER CR BEI. LITTLE BITTER CR NR KANDA	-	-	-	-	-	-	-	-	X	-	X	XX	9	0.44
KILLPECKER CREEK AT ROCK SPRINGS WYO	-	-	-	-	-	-	-	-	0	XX	X	0	9	0.33
00665 PHOS-TOT	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	-	-
CHEYENNE RIVER NR DULL CENTER WY	-	-	-	-	-	-	-	-	-	-	-	-	11	0.0
CHEYENNE RIVER NR RIVERVIEW WY	-	-	-	-	-	-	-	-	XX	-	-	-	0	0.11
BEAVER CREEK NEAR NEWCASTLE, WYO.	-	XX	0	X	-	-	-	-	XX	-	-	-	12	0.33
BELLE FOURCHE RIVER BELOW MOORcroft, WYO	XY	0	X	-	-	-	-	XX	-	-	XX	11	0.55	
BELLE FOURCHE RIVER AT DEVELS TOWER WYO	-	XX	-	-	-	-	-	-	-	-	-	-	12	0.00
POWDER RIVER NEAR KAYCEE, WYO.	-	X	XX	-	-	-	-	X	-	XX	-	-	10	0.50
POWDER RIVER AT SUSSEX, WYO.	-	X	XX	-	XX	-	-	XX	X	XX	X	XX	12	0.69
POWDER R AT ARVADA WYO	-	X	-	XX	XX	-	-	X	-	XX	-	XX	11	0.82
I. POWDER R BE CORRAL C NR WESTON WY	-	-	-	-	-	-	-	X	XX	-	-	-	7	0.29
I. POWDER R NR WESTON WY	-	-	-	-	-	-	-	XX	-	-	-	-	12	0.00
I. POWDER RIVER AB DRY C NR WESTON, WY	-	-	-	-	-	-	-	X	-	-	-	-	12	0.00
CLEAR C BI. ROCK C NR BUFFALO WY	-	X	X	-	-	-	-	-	-	-	0	11	0.27	
CRAZY WOMAN CREEK AT UPPPER STA. NEAR ARV	-	-	-	-	-	-	-	XX	-	-	-	-	12	0.00
SALT CREEK NEAR SUSSEX, WYO.	-	XY	XX	-	XX	-	-	XX	0	X	0	XX	11	0.55
SOUTH FORK POWDER R. NR. KAYCEE, WYO.	-	XY	XX	-	XX	-	-	X	-	-	-	-	6	0.67

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%

X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 17. TABLE OF STATIONS WHERE WATER QUANTITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MJN.	EXCEDEENCE PROBABILITY
TONGUE RIVER AT MONARCH WYO			X										11	0.09
GOOSE CREEK BELOW SHERIDAN WYO	XY	XX	XX	0				XX	XX	XX	XX	XX	11	0.91
RIGHORN R AT WORLAND WYO			XX	XX	X			X		X			12	0.58
RIGHORN R AT KANE WYO	X		XX	X		X		XX					11	0.45
SHOSHONE RIVER BELOW BUFFALO BILL RESERVA								0				X	10	0.20
SHOSHONE RIVER AT DRY C MR CODY, WY								X					0	0.11
SHOSHONE RIVER NEAR LOVELL WYO	X		XY	XX	0	XX	X		XX				0	0.99
SAGE C AT SIDON CANAL NR DEAVER WYO			XX				XX	X					0	0.31
WHITE CREEK NEAR GARDEN WYO			XX	XX	X	XX	XX						0	0.61
PITTER CREEK NEAR GARDEN WYO	XX	XX	XX	XX			XX	XX					0	0.78
SHILL C NR GREYHILL, WYO			XX			X		X					11	0.37
GREYHILL RIVER NEAR RASTN, WYO.					X	XX							12	0.17
HOWOOD R NR TENSLEEP, WY			XX		XX								11	0.18
PATNROCK CREEK NEAR MOUTH BELOW HYATTIVI			XX										11	0.09
HOWOOD R AT HANFRSON, WYO			XX	XX	XX								11	0.27
WIND RIVER NEAR DUROTS, WYO.					X								12	0.08
WIND R AT RIVERTON, WY									X		XX		12	0.17
WIND RIVER AT ROYSEN RF NR SHOSHON WY			X	XX	X	XX							12	0.42
LITTLE CREEK NEAR SHOSHON, WYO.				XX		XX	X						12	0.25
LITTLE RIVER NR RIVERTON WYO		X	XX		XX						0		11	0.15
DEAVER CREEK NR ARAHNE WYO			XX	XX						XX			5	0.80
LITTLE WTND R ABOVE ARAHNE, WYO.						X							11	0.09
GREEN RIVER AT HTG ISLAND, NEAR GREEN RI			X										12	0.08
GREEN R. NR GREEN RIVER, WYO.			Y										11	0.09
GREEN RIVER BELOW GREEN RIVER WYO			XX										11	0.09
LITTLE SNAKE RIVER NEAR RAGGS, W			XX	XX	XX		XX		XX				11	0.45
HAMS FORK NEAR DIAMONDVILLE WY	XX	XX					0	XX	XX	X	XX		12	0.58
HAMS FORK NEAR GRANGER, WYO.	0	XX	X	XX								0	12	0.42
HUDDY CREEK NEAR HAMPTON WYO			XX	XX		XX							10	0.10
SMITHS FORK NEAR LYMAN, WY													12	0.08
RITTER CR BEI LITTLE RITTER CR NR KAMDA		XX	XX	XX		XX		XX		XX	XX		0	0.89
KILLPECKER CREEK AT ROCK SPRINGS WYO			XX	XX		XX		XX		XX	XX		0	1.00
SALT WELLS C NR S BAXTER WY		XX	XX		XX				XX				11	0.45
SALT WELLS CREEK NEAR SALT WELLS WY		XX	X	XX									4	1.00
LITTLE CR AB SALT WELLS C NR SALT WELLS W		XX	X	XX		XX		XX					0	0.44
RITTER CREEK NEAR RITTER CREEK, WYO		XX	XX	XX	XX		XX	X	X	XX	XX		11	0.82
BIG SANDY RIVER BELOW FDFN WYO					XX								11	0.09
BIG SANDY R AT CASSON BRIDGE, NR FDFN,			X	XX									12	0.25
LITTLE SANDY CREEK ABOVE FDFN, WYO.				X	XX	X		X					12	0.50
N PLATTE R AT SEMINOP PES NR SINCLAIR WY				XX				XX					12	0.17
NORTH PLATTE R AT ALCOVA WYO										X			12	0.08
NORTH PLATTE RIVER BI CASPER WYO													24	0.04
N PLATTE R NR GLENROCK WYO			X			X		XX		X			11	0.36
NORTH PLATTE R. AT ORIN, WYO.								X		0			13	0.23
NORTH PLATTE R BI GUERNSEY RF, WYO													11	0.09
LARAMIE RIVER AT HOWELL, WY	XY	YY	XX	XX	0			XX	XX	XX	XX	YY	12	0.93
LARAMIE RIVER AT TWO RIVERS, WYO.	X	YY	XY	XX	X			XX	XX	XX	XX	X	12	0.92
LARAMIE RIVER NR FT LARAMIE WYO								0					12	0.08
LITTLE LARAMIE RIVER AT TWO RIVERS, WYO			X										12	0.08
CASPER C AT CASPER WYO							0						1	1.00

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%
 X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%
 XX= EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO.	EXCEDENCE PROBABILITY
SWEETWATER RIVER NEAR ALCOVA, WYO.					X			XX					11	0.14
MEDICINE BOW R AR SIMONOF RES. NR HANNA,					XX	XX	0		XX				12	0.33
I. MEDICINE BOW R NR MEDICINE BOW WYO					XX								11	0.09
SAGE CREEK NEAR SARATOGA, WYO					XX	XX	XX	X					8	0.50
SALT RIVER AR RESERVOIR NR ETNA WY					XX							XX	12	0.25

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CHFYFNH RTVER NR DULI, CFNTFR WY							0						3	0.33
BELLE FOURCHE RTVER BELOW MOORCROFT, WYO					X		X						2	1.00
POWDER RTVER AT SUSSEX, WYO.						XX	XX		XX				4	0.75
I. POWDER R RF CORRAL C NR WESTON WY							XX						3	0.33
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV							XX						3	0.33
SHOSHONE RTVER NEAR LOVELL WYO					XX		0						2	1.00
WHISTLE CREEK NEAR GARLAND WYO					XX		X						2	1.00
BITTER CR BEI. LITTLE BITTER CR NR KANDA					XX		XX						2	1.00
KILLDECKER CREEK AT ROCK SPRINGS WYO					XX		XX						3	1.00
SALT WELLS C NR S BAXTER WY					XX		XX						3	1.00
SAIT WELLS CREEK NEAR SALT WELLS WY					X		XX						3	1.00
BITTER C AR SALT WELLS C NR SALT WELLS W					X		XX						2	1.00
BITTER CREEK NEAR BITTER CREEK, WYO					XX		XX						3	0.67
LITTLE SANDY CREEK ABOVE EDEN, WYO.					X		XX	X					3	1.00
LARAMIE RTVER AT HOWELL, WY					XX		0						3	0.67
CASPER C AT CASPER WYO							0						1	1.00

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70300 PESIDIF

CHFYFNH RTVER NR DULI, CFNTFR WY					XX	3	1.00								
POWDER RTVER AT SUSSEX, WYO.					XX	12	1.00								
I. POWDER R RF CORRAL C NR WESTON WY					XX	7	1.00								
I. POWDER R NR WESTON WY					XX	12	0.92								
I. POWDER RTVER AR DRY C NR WESTON, WY					XX	3	1.00								
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV					XX	XX	XX	XX	X	X	XX	XX	XX	12	1.00
NORTH PLATTE RTVER BI CASPER WYO					0	0	X							22	0.23

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CHFYFNH RTVER NR DULI, CFNTFR WY					XX	11	1.00								
CHFYFNH RTVER NR RIVERTVIEW WY					XX	XX	XX	XX	X	XX	XX	XX	XX	0	1.00
BEAVER CREEK NEAR NEWCASTLE, WYO.					XX	XX	XX	XX	YY	X	YY	YY	XX	11	1.00
RATTLE FOURCHE R BI, RATTLESNAKE C NR PINE					XX	XX	XX	XX	YY	XX	XX	XX	XX	6	1.00
RATTLE FOURCHE R AR DRY C NR PINEY WY					XX	XX	0	XX	XX	XX	XX	XX	XX	11	1.00
RATTLE FOURCHE RIVER RATTLESNAKE C NR PINEY WY					XX	XX	0	XX	XX	XX	XX	XX	XX	11	1.00
RATTLE FOURCHE RIVER AT DEVTLS TOWER WYO					XX	XX	XX	XX	X	Y	X	YY	XX	12	1.00
POWDER RTVER NEAR KAYCEE, WYO.					X	X	XX	X	0	XX	XX	YY	XX	10	1.00
POWDER RTVER AT SUSSEX, WYO.					XX	12	1.00								
POWDER R AT ARVADA WYO					XX	XX	XX	XX	YY	XX	YY	XX	XX	11	1.00

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%

X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	NO. DAYS	PREFERENCE PROBABILITY
1. POWDER R BE CORRAL C NR WESTON WY			XX	XX	XX	XX	XX			XX	XX	7	1.00	
1. POWDER R NR WESTON WY	XY	XX		XX	XX	XX	XX	XX	XX	XX	XX	12	0.92	
1. POWDER RTVER AB DRY C NR WESTON, WY	XX	XX	0	XX	XX	XX	XX	XX	XX	XX	XX	12	1.00	
CLEAR C BL. ROCK C NR BUFFALO WY	0	0	X							0	0	11	0.55	
CLEAR CREEK AT UCROSS WY	Y		XX	XX			X		Y	X	X	10	0.80	
CLEAR CREEK NEAR ARVADA WYO	XY	XX	X	XX		X	XX	X	X	X	XX	11	1.00	
PINEY CREEK AT UCROSS WYO	Y	X	0							X	X	11	0.45	
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV	XY	XX	XX	XX	X	X	XX	XX	XX	XX	XX	13	1.00	
SALT CREEK NEAR SUSSEX, WYO.	XY	XX	XX	XX		XX	XX	XX	XX	XX	XX	11	1.00	
SOUTH FORK POWDER R. NR. KAYCEE, WYO.	XY		XX	XX	XX		XX			XX	XX	7	1.00	
GOOSE CREEK BELOW SHREWDAN WYO						0						11	0.09	
BIGHORN RIVER AT LUCERNE, WYO.										0	0	12	0.58	
BIGHORN R AT WORLAND WYO	0		X	X	X	X		X	X	0	0	12	1.00	
BIGHORN R AT KANP WYO	Y	X	X	X			X	X		X	X	11	0.91	
SHOSHONE RTVER BELOW BUFFALO BILL RESERV												10	0.10	
SHOSHONE RTVER AB DRY C NR CODY, WY			0								0	10	0.30	
SHOSHONE RTVER NEAR COVELL WYO	Y	X	X				0			X	X	10	0.70	
SAGE C AT SIDON CANAL NR DEAVER WYO	XY	XX	XX	XX		XX	XX	X		XX	XX	10	1.00	
WHISTLE CREEK NEAR GARDIAND WYO	XX		X	XX			0		X		XX	0	0.78	
BITTER CREEK NEAR GARDIAND WYO		YY	XX	XX			0	X		X	XX	0	0.89	
SHELL C NR GREYBILL, WYO	0	0	XX	X		XX	XX	XX	XX	X	X	11	0.91	
GREYBILL RIVER NEAR RASTN, WYO.	0	0	0	X	X		XX	XX	XX	X	X	12	0.83	
NOWOOD R NR TENSLEEP, WY	0	0	X	X		X	X	X	Y	X	0	11	0.41	
PATNTROCK CREEK NEAR MOUTH BELOW HYATTVI	0		X	0				X	Y	X	0	11	0.73	
NOWOOD R AT MANDERSON, WYO	0		X	X				XX	Y	X	X	10	0.70	
WIND RIVER AB BOYSEN RE NR SHOSHON WY	Y		0									12	0.17	
WIND R AB BOYSEN RFS WYO										XX		12	0.08	
FTVFMTE CREEK NEAR SHOSHON, WYO.	XX	YY	XX	XX	X		0	X		XX	XX	12	1.00	
LITTLE WIND R NR RTVERTON WYO	Y	X	XX						X	0	X	11	0.64	
BEAVER CREEK NR ARAPAHOE WYO					XX					XX	XX	5	0.60	
LITTLE WIND R ABOVE ARAPAHOE, WYO.	Y	0						X		0		12	0.56	
GREEN RIVER AT BTG ISLAND, NEAR GREEN RI									0			12	0.08	
GREEN R. NR GREEN RIVER, WYO.									X			12	0.08	
GREEN RIVER BELOW GREEN RIVER WYO	0	0						X		0		12	0.33	
HENRY'S FORK NR MANTLA, UT	XY	X	X	X	XX		XX	YY		YY		11	0.91	
BLACKS FK NR LYMAN WYO	XY	XX	XX	XX		XX		XX	XX	XX	XX	12	1.00	
BLACKS FORK RIVER NEAR LITTLE AMERICA WY	XY	XX	XX			X		XX	X	XX	XX	12	0.83	
HAMS FORK NEAR GRANGER, WYO.	0								0			12	0.17	
MUDY CREEK NEAR HAMPTON WYO		YY	XX	X		YY		XX	XX	XX	XX	10	1.00	
SMITHS FORK NEAR LYMAN, WY	X	0				X		YY	XX	YY	Y	12	0.75	
BITTER CR REI. LITTLE BITTER CR NR KANDA	XX	XX	XX		XX		XX	XX	XX	XX	XX	11	1.00	
KIMPECKER CREEK AT ROCK SPRINGS WYO		XX	XX		XX		XX	XX	XX	XX	XX	10	1.00	
SALT WELLS C NR S BAXTER WY	XX	X	0				X	YY	X		XX	11	0.91	
SALT WELLS CREEK NEAR SALT WELLS WY			XX			YY						11	1.00	
BITTER C AB SALT WELLS C NR SALT WELLS W	XY	XY	XX			XX		X	XX	XX	XX	9	1.00	
BITTER CREEK NEAR BITTER CREEK, WYO	YY		X	XX	XX	XX	YY	XX	XX	XX	XX	11	0.91	
BIG SANDY RIVER BELOW FDEN WYO	YY		XX	XX	XX	XX	XX	XX	XX	XX	XX	11	1.00	
BTG SANDY R AT GASSON BRIDGE, NR FDEN,	YY	XY	XX	XX	XX		XX	XX	YY	XX	XX	12	1.00	
NORTH PLATTE RIVER BI. CASPER WYO						X						11	0.09	
N. PLATTE R NR GLENROCK WYO						0	X					11	0.18	

LEGEND: 0- EXCEEDS CRITERIA BY LESS THAN 15%
 X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 50%
 XX- EXCEEDS CRITERIA BY MORE THAN 50%

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO.	EXCEDENCE DAYS	PREDIABILITY
NORTH PLATTE R. AT ORIN, WYO.	---	---	---	---	0	X	X						12	0.23	
NORTH PLATTE RIVER BELOW GLENWOOD RESERVOIR	0	---	---	0	0	---				0	---		11	0.45	
NORTH PLATTE R. AT GUERNSEY RPP, WYO	0	0	0	0	0								11	0.36	
LARAMIE RIVER AT HOWELL, WYO													12	0.33	
LARAMIE RIVER AT TWO RIVERS, WYO													12	0.33	
LARAMIE RIVER NR FT LARAMIE WYO	0								0	0	0	0	12	0.58	
MEDICINE BOW R AB SIMON OF RES. NR HANNA,	Y	XX	X	X				XX	X	XX	XX	XX	12	0.83	
M. MEDICINE BOW R NR MEDICINE BOW WYO			0					X	X	XX	X	X	11	0.82	
SAGE CREEK NEAR SARATOGA, WYO					XX	0	X	X	YY	XY	XX		8	0.88	
000095 CONDUCTIVITY															

CHEYENNE RIVER NR DUKE CENTER WYO					XX	XX	XX	XX	X	XX	XX	XX	11	1.00	
CHEYENNE RIVER NR RIVERVIEW WYO					X	XX	XX	XX	XX	0	XX	XX	10	1.00	
REILLY FOURCHE R. AB. RATTLESNAKE C NR PINE					XX	6	1.00								
REILLY FOURCHE R AB DRY C NR PINNEY WYO	XY	XX				XX		XX	XX	XX	XX	XX	11	0.91	
REILLY FOURCHE RIVER BELOW MOUNTAIN CRAFT, WYO	XX	XX	0	XX				XX	XX	X	XY	XX	11	1.00	
REILLY FOURCHE RIVER AT DEVELLS TOWER WYO	XY	XX	XX	X	XX	X	X	X	X	X	XX	XX	12	1.00	
POWDER RIVER NEAR KAYCEE, WYO.	X	X	X	X		0	XX	X	XX	X	X	X	11	1.00	
POWDER RIVER AT SUSSFX, WYO.	XY	XX	14	1.00											
POWDER R AT ARVADA WYO	XY	XX	XX	XX				XX	XX	XX	XX	XX	11	1.00	
I. POWDER R AB CURRAL C NR WESTON WYO					XX	XX	XX	XX	XX				7	1.00	
I. POWDER R NR WESTON WYO	XY	XX			XX	XX	XX	XX	X	XY	XX	XX	12	0.92	
I. POWDER RIVER AB DRY C NR WESTON, WYO	XX	XX			XX			XX	XX	XX	XX	XX	12	0.92	
CLEAR C R. AB. ROCK C NR BUFFALO WYO	0		X									0	11	0.27	
CLEAR CREEK AT UCROSS WYO	X		Y	X				Y		0	X	X	10	0.80	
CLEAR CREEK NEAR ARVADA WYO	XX	XX	Y	XX				X	X	X	X	XX	11	1.00	
PINEY CREEK AT UCROSS WYO	0	X	0								X	X	11	0.45	
CRAYZ WOMAN CREEK AT UPFR STA. NEAR ARV	XY	XX	X	X	X	0	XX	XX	XY	X	Y	XX	13	1.00	
SAIT CREEK NEAR SUSSFX, WYO.	XY	XX	XX	XX				XX	XX	XX	XX	XY	11	1.00	
SOUTH FORK POWDER R. NR. KAYCEE, WYO.	XY		XX	XX				XX		XX		XX	7	1.00	
GOOSE CREEK BELOW SHERIDAN WYO			0										11	0.09	
BIGHORN RIVER AT LUCERNE, WYO.						X	X	X	X		0		12	0.42	
BIGHORN R AT KANE WYO						X	X	X	Y	X	X	X	11	0.82	
SHOSHONE RIVER BELOW BUFFALO BILL RESERV												X	10	0.10	
SHOSHONE RIVER AB DRY C NR CODY, WYO												0	10	0.10	
SHOSHONE R NR GARLAND WYO			X		0								0	0.11	
SHOSHONE RIVER NEAR LOVELL WYO			X	0								X	10	0.40	
SAGE C AT SIDON CANAL NR DEAVER WYO	XY	XX	XX	XX				XX	XY	X	XX	XX	10	1.00	
MONTSTIE CREEK NEAR GARLAND WYO	XY		X	XX							X	XX	9	0.56	
BITTER CREEK NEAR GARLAND WYO	Y	XX	XX	XX						0	X	XX	10	0.80	
SHELI C NR GREYHULL, WYO	0		Y	X	X			XY	X	XY	X	X	11	0.82	
WIND R AB BOYSEN RES WYO											0	0	11	0.18	
GREEN RIVER BELOW GREEN RIVER WYO			0								0		12	0.17	
HENRYS FORK NR MANTUA, UT	Y	X	X	X	X	X	0	Y	YY	Y	YY		12	1.00	
BLACKS FK NR LYMAN WYO	XY	XX	Y	XX	XX	XX	XX	XY	XX	XX	YY	XX	26	1.00	
BLACKS FORK RIVER NEAR LYMAN, AMERICA WYO	XY	XX	Y	X				X	Y	XX	YY	XX	25	0.88	
HAMS FORK NEAR GRANGER, WYO.	0												12	0.08	
MUDGY CREEK NEAR HAMPTON WYO	Y	XX	XY	X	X	YY	XY	YY	XY	XY	YY	XY	21	1.00	
SHITHS FORK NEAR LYMAN, WYO	Y	0	0	U	0	X		YX	XY	YY	X	X	12	0.83	

LEGEND: 0 - EXCEEDS CRITERIA BY LESS THAN 15%

X - EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 95%

XX - EXCEEDS CRITERIA BY MORE THAN 95%

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	NO.	EXCEDENCE OVER PROBABILITY
RITTER CR BEI LITTLE RITTER CR NR KANDA	XX	XX	XX		XX		XX	XX	XX	XX	XX	XX	11	1.00
KILPECKER CREEK AT ROCK SPRINGS WYO	XX	XX			XX		XX	XX	XX	XX	XX	XX	10	1.00
SALT WELLS C NR S BAXTER WY	X	X	X		O	X	X	X	Y	Y	XX	45	0.78	
SALT WELLS CEEK NEAR SALT WELLS WY	XX	XX	XX	XX		XX							17	1.00
RITTER C AB SALT WELLS C NR SALT WELLS W	XX	XX	XX	XX		XX		XX	XX	XX	XX	XX	23	1.00
RITTER CREEK NEAR RITTER CREEK, WYO	X	X	XX	XX	XX	O	XX	XX	XX	XX	XX	XX	28	0.96
BIG SANDY RIVER BELOW EDEN WYO	XY	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	21	1.00
BIG SANDY R AT GASSON BRIDGE, NR EDEN.	XY		XX	XX	XX		XX	XX	XX	XX	XX	XX	11	1.00
NORTH PLATTE R AT CASPER WYO	O	O	O										26	0.15
NORTH PLATTE RIVER BI. CASPER, WYO	O	O											24	0.08
NORTH PLATTE R. AT ORIN, WYO.	O	O											13	0.15
NORTH PLATTE RIVER BELOW GLENWOOD RESERVOI	O	O						X	O	XX	O		11	0.18
LARAMIE RIVER AT HOWELL, WY													12	0.33
LARAMIE RIVER AT TWO RIVERS, WYO.								X	O	XX	O		12	0.33
LARAMIE RIVER NR FT LARAMIE WYO	O											O	12	0.25
CASPER C AT CASPER WYO	XX	XX	XX	XX	XX	XX	27	1.00						
BATES C NR ALCOVY WYO	X	X	X	O		XX	XX	XX	XX	YY	XX	X	11	1.00

00070 TURB

CHEYFNE RTVER NR DULL CENTER WY		XX	XX										2	1.00
CHEYFNE RTVER NR PIVERVIEW WY		XX						X	XX		YY		10	0.40
REILF FOURCHE R AB DRY C NR PINNEY WY		XX	XX										11	0.18
REILF FOURCHP RIVER BELOW MONARCHET, WYO		XX	X										4	0.50
REILF FOURCHF RIVER AT DEVTLS TOWER WYO			XX										12	0.08
PONDRL RTVER NEAR KAYCEP, WYO.													11	0.55
PONDRL R AT PRVADA WYO	X	X	XX	XX			X	X	XX	XX	XX	XX	11	1.00
1. PONDRL RTVER AB DRY C NR WESTON, WY			XX										10	0.10
SOUTH FORK PONDRL R. NR. KAYCEP, WYO.			XX	XX			XX			XX	XX	XX	7	0.06
TONGUE RTVER AT MONARCH WYO													5	0.20
GODSE CREEK BELOW SHERTON WYO			X				X						11	0.18
BIGHORN R AT KANE WYO			XX	XX			XX	X	XX				10	0.60
SHOSHONE RTVER AB DRY C NR CODY, WY			Y	X									10	0.20
SHOSHONE RTVER NEAR LOVELL, WYO			XX	XX			X	X			XX	XX	9	0.78
WIND RTVER AB ROVSEN RF NR SHOSHON WY			XX	XX	XX					YY			10	0.40
GREEN R NR LARGARGE WYO													24	0.04
GREEN R. NR GREEN RIVER, WYO.			XX	O									29	0.14
GREEN RIVER BELOW GREEN RIVER WYO			XX										12	0.08
BLACKS FK NR LYMAN WYO			XX	XX					XX				27	0.22
BLACKS FORK RIVER NEAR LITTLE AMERTCA WY			XX	XX	XX	XX		XX		XX			25	0.40
HAMS FORK NEAR DTAMONDVILLE WY													12	0.0
HAMS FORK NEAR GRANGE, WYO.													11	0.18
MUDGY CREEK NEAR HAMPTON WYO			XX	XX	XX	X		YY					15	0.47
SMITHS FORK NEAR LYMAN, WY			XX	XX	XX	O			XX		X		11	0.36
RITTER CR BEI LITTLE RITTER CR NR KANDA			XX	X		XX							11	0.27
KILPECKER CREEK AT ROCK SPRINGS WYO			XX										11	0.33
SALT WELLS C NR S BAXTER WY			XX	XX	XX	XX	XX	XX		XX	XX		40	0.57
SALT WELLS CREEK NEAR SALT WELLS WY			XX	XX	XX	XX		XX		XX			15	1.00
RITTER C AB SALT WELLS C NR SALT WELLS W			XX	XX	XX		XX		X	XY			10	0.83
RITTER CREEK NEAR RITTER CREEK, WYO			XX	10	1.00									

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%
 X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 95%
 XX- EXCEEDS CRITERIA BY MORE THAN 95%

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEED CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO. OBS	EXCEEDENCE PROBABILITY	
BIG SANDY CREEK NEAR FARSON, WYOMING				XX	XX	XX		XX					12	0.50	
BIG SANDY RIVER BELOW EDEN WYO					XX	X							21	0.19	
LITTLE SANDY CREEK ABOVE EDEN, WYO.					XX	X	XX		XX				16	0.31	
N PLATTE R AT SEMINOLE RES NR STNCLAIR WY				X					XX				12	0.17	
NORTH PLATTE R AT ALCOVA WYO										X			11	0.09	
NORTH PLATTE RIVER BI. CASPER, WYO					X								9	0.11	
NORTH PLATTE R. AT ORIN, WYO.							X		X				15	0.20	
CASPER C AT CASPER WYO													26	0.04	
RATES C NR ALCOVA WYO					XX				XX				11	0.18	
SWEETWATER RIVER NEAR ALCOVA, WYO.					XX				X				11	0.18	
SALT RIVER AT RESERVOIR NR FTNA WYO					X								12	0.08	
00530 RESIDUE															

NORTH PLATTE RIVER BI. CASPER WYO											X		5	0.40	
70299 PFS-SUSP															

CLEAR CREEK NEAR ARVADA WYO											XX		7	0.14	
GOOSE CREEK BELOW SHERIDAN WYO					XX			XX					7	0.29	
BIG SANDY RIVER BELOW EDEN WYO						XX							4	0.25	
NORTH PLATTE RIVER BI. CASPER WYO					X	XX	XX	X	X	X			18	0.78	
116 80154 SUSP SFD															

CHEYENNE RIVER NR DULI CENTER WY							X	XX	X	XX			X	9	0.67
BELLE FOURCHE R BI. RATTLESNAKE C NR PINE	XY	O			XX	XX							6	0.83	
BELLE FOURCHE R AB DRY C NR PINEY WY	X				XX	X							7	0.71	
BELLE FOURCHE RIVER BELOW MOORCROFT, WYO	XY	YY			XX	XX	XX	XX	XX	XY	X	X	12	1.00	
POWDER RIVER AT SUSSEX, WYO.	Y	YY	XX	XY		XX	11	1.00							
POWDER R AT ARVADA WYO	XY												1	1.00	
I. POWDER R BI. CORRAL C NR WESTON WY					XX								X	7	0.29
I. POWDER R NR WESTON WY	XY	YY	XX			12	1.00								
I. POWDER RIVER AB DRY C NR WESTON, WY	XY	XX	XX	X	XX	XX	XX	XX	X			XX	11	0.91	
CLEAR C BI. ROCK C NR BUFFALO WY						XX	XX	X	O				15	0.27	
CLEAR CREEK AT UCROSS WY							O	XX					12	0.17	
CLEAR CREEK NEAR ARVADA WYO	XX		XX		X	X	XX	XX					12	0.58	
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV		YY	XX	XX	XX	XX	XX	XX	Y			X	12	0.83	
SALT CREEK NEAR SUSSEX, WYO.	XY	XX	XY	XX			XX	XX	XX	XX	XX	XY	11	1.00	
GOOSE CREEK BELOW SHERIDAN WYO					XX	X	XX	XX					13	0.46	
RICHORN R AT KANE WYO.								XX		XX	X		4	1.00	
SHOSHONE RIVER NEAR LOVELL, WYO								XX		XX	Y	XX	11	1.00	
HOWOOD R NR TENSLEEP, WY	XY		XX	XX	XX	XX	XX	X	O		YY	XX	12	0.92	
ETUENTIE CREEK NEAR SHOSHONE, WYO.	XY	YY	XX	YY	XX	XX	XX	YY			YY	XX	12	0.92	
GREEN R NR LABARCE WYO	XY				XX	XX							13	0.38	
GREEN RIVER AT HTG ISLAND, NEAR GREEN RI	Y												1	1.00	
GREEN R. NR GREEN RIVER, WYO.	Y				XX	YY							16	0.31	
BLACKS FK NR LYMAN WYO	Y	X	XX	XX	XX	XX	YY	Y	XX	O		XX	15	0.93	
BLACKS FORK RIVER NEAR LITTLE AMERICA WY					XX	XX	XX	XX			X		13	0.46	
HAMS FORK NEAR GRANGER, WYO.	XY	XX	XY	XX		XX		X			X	X	12	0.75	

LEGEND: O- EXCEEDS CRITERIA BY LESS THAN 15%

X- EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX- EXCEEDS CRITERIA BY MORE THAN 85%

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	NO.	EXCEDENCE PROBABILITY
	---	---	---	---	---	---	---	---	---	---	---	---	DIS	
MUDY CREEK NEAR HAMPTON WYO				XX	XX	XX	XX		XX			XX	12	0.58
SMTHS FORK NEAR LYMAN, WY		XX											1	1.00
SALT WELLS C NR S BAXTER WY				XX	XX	XX	XX	X		X	XX		36	0.58
SALT WELLS CREEK NEAR SALT WELLS WY			XX	XX	XX	XX		XX		XX			13	1.00
RITTER C AR SALT WELLS C NR SALT WELLS W		XX	XX	XX				XX		XX			15	0.80
RITTER CREEK NEAR RITTER CREEK, WYO		X	XX	XX	X	O	XX	Y	X	XX	XX		17	0.94
BIG SANDY CREEK NEAR FARSON, WYOMING			XX	XX	XX	XX	XX	XX	X				12	0.75
BIG SANDY RIVER BELOW EDEN WYO	XX	XX	XX	XX	XX	O	XX	XX		X	XX	14	0.86	
BIG SANDY R AT CASSON BRIDGE, NR EDEN, WYO.	XX				XX	XX	XX	XX	XX				1	1.00
LITTLE SANDY CREEK ABOVE EDEN, WYO.					XX	XX	XX	XX	XX				16	0.44
NORTH PLATTE R AT CASPER WYO						XX	XX	XX	X	Y			7	0.86
NORTH PLATTE R. AT OPIK, WYO.	X	XX	XX	X	XX					YY	X	XX	10	1.00
NORTH PLATTE R HI GUERNSEY RF, WYO						X							1	1.00
LARAMIE RIVER NR FT LARAMIE WYO		X		XX	XX	XX	XX	O	YY		YY		10	0.80
SWEETWATER RIVER NEAR ALCOVY, WYO.	Y						XX	XX					10	0.40
MEDICINE BOW R AR SHIMOF PES, NR HANNA,	XX	X	YY	XX	XX	13	1.00							
MEDICINE BOW R NR MEDICINE BOW WYO	X	XX	XX	XX	XX				XX	X	XX	X	12	0.83
SAGE CREEK NEAR SARATOGA, WYO				XY	XX	XX	XX			XX			8	0.63
CACHE CREEK NEAR JACKSON, WYO.							XX						11	0.09

00940 CHLORIDE

BEAVER CREEK NEAR NEWCASTLE, WYO.	XX	XX	XX		XX	15	0.83							
POWDER RIVER AT SUSSEX, WYO.	X					X	XX	XX	XX	X	O	O	13	0.62
POWDER R AT ARVADA WYO	Y	O				X	XX	X	X	X	X	X	11	0.73
SALT CREEK NEAR SUSSEX, WYO.	XX	XX	XX	XX		XX	11	1.00						
RITTER CR BEI LITTLE RITTER CR NR KANDA	XX	O	O		X		X	X	X	X	XX		11	0.91
KILLPECKER CREEK AT ROCK SPRINGS WYO	XY	XX			XX		XX	Y	XX		XX		10	0.90
SALT WELLS CREEK NEAR SALT WELLS WY	O												4	0.25
RITTER C AR SALT WELLS C NR SALT WELLS W						XX			XX	X	XX	YY	9	0.56

00945 SULFATE

CHYFNH RIVER NR DULL CENTER WY		XX	XX	XX	XX	XX	XX	YY	XX	YY	XX	XX	11	1.00
CHYFNH RIVER NR RIVERVIEW WY		XX	XX	XX	XX	XX	XX	X	XX	YY	XX	XX	9	1.00
BEAVER CREEK NEAR NEWCASTLE, WYO.	XY	XX	XX	XX	XX	XX	XX	X	XX	YY	XX	XX	12	1.00
REILF FOURCHE R BI RATTLESNAKE C NR PINE	YY	XX	XX	XX	XX	XX	XX	X	XX	YY	XX	XX	6	1.00
REILF FOURCHE R AR DRY C NR PINNEY WY	XX	XX	X	XX		XX	11	1.00						
REILF FOURCHE RIVER BELOW MURCROFT, WYO	XX	XX	X	XX		XX	11	1.00						
REILF FOURCHE RIVER AT DEVTIS TOWER WYO	XY	XX	XX	XX	X	X	X	X	XX	YY	XX	XX	12	1.00
POWDER RIVER NEAR KAYCEE, WYO.	X	X	X	X			XX	YY	XX	YY	X		10	0.40
POWDER RIVER AT SUSSEX, WYO.	X	XX	XX	XX	X	XX	X	XX	XX	YY	XX	XX	13	1.00
POWDER R AT ARVADA WYO	XY	XX	XX	XX		XX	11	1.00						
I. POWDER R BE CORRAL C NR WESTON WY		XY	XX	XX	XX	XY	XX	YY		XX	YY	YY	7	1.00
I. POWDER R NR WESTON WY	XY	XX	XX	XX	XX	XX	XX	YY	XY	YY	XX	XX	12	0.92
I. POWDER R AR DRY C NR WESTON, WY	XY	XX	X	XX		YY	XX	XX	XX	XX	XX	XX	12	1.00
CLEAR C BI ROCK C NR BUFFALO WY	O	X									O	X	11	0.36
CLEAR CREEK AT UCROSS WY	Y		XX	YY		X		Y	X	X	X	X	10	0.80
CLEAR CREEK NEAR ARVADA WYO	XY	XX	XX	XX		X	XX	X	Y	YY	XX	XX	11	1.00
PINNEY CREEK AT UCROSS WY	O									Y	X	X	11	0.27

LEGEND: O= EXCEEDS CRITERIA BY LESS THAN 15%

X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 50%

XX= EXCEEDS CRITERIA BY MORE THAN 50%

TABLE 7. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MJN.	EXCEDENCE PROBABILITY
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV	XX	XX	XX	XX	XX	X	XX	XX	XX	XX	XX	XX	13	1.00
SALT CREEK NEAR SUSSEX, WYO.	XY	YY	XX	YY	XX	XX	XX	XX	XY	XX	YY	XX	11	1.00
SOUTH FORK POWDER R. NR. KAYCCE, WYO.	XY		XY	XX		XX		XX			XX	XX	7	1.00
PIGHORN RIVER AT LUCERN, WYO.					X	0		X					12	0.42
PIGHORN R AT WORLAND WYO					X	X	X	X		X			12	0.92
PIGHORN R AT KANE WYO			XY	X				X		X		X	11	0.91
SHOSHONE RIVER BELOW BUFFALO BILL RESERV													10	0.10
SHOSHONE RIVER NEAR TOWNSHIP WYO		Y	X	0									10	0.50
SAGE C AT RIDGE CANYON NR DEAFER WYO	XY	YY	XX	YY		XX	XX	XX	YY		XX	XX	10	1.00
WHITE CREEK NEAR GARLAND WYO	XY		XX	XX							XX	0	0.56	
PITTER CREEK NEAR GARLAND WYO			XX	XX	XX						XX	0	0.56	
SHELL C NR GREYHULL, WYO	0		XX	X				XX	XX	XX	XX	X	11	0.82
GREYHULL RIVER NEAR EASTON, WYO.					X	X		XX	X	XX	X	0	12	0.67
MONROE R NR TENSLEEP, WY					X	X	X	X	XX	Y	X	0	11	0.82
PATNTRICK CREEK NEAR MOUTH BELOW HYATTIVI	0				X	0			X	X	X		11	0.64
MONROE R AT MANDERSON, WYO	0				X	X			XX	X	X	X	11	0.73
ETUENTLE CREEK NEAR SHOSHONE, WYO.	XY	YY	XX	XX	X		0	X	YX	XX	XX	12	1.00	
LITTLE WIND R NR RIVERTON WYO	0	0	XX							X	X	11	0.55	
BEAVER CREEK NR ARAHAE WYO					XX						XX	0	0.60	
LITTLE WIND R ABOVE ARAHAE, WYO.	0	0		XX				X		X			11	0.45
GREEN RIVER AT BIG ISLAND, NEAR GREEN RI										0			12	0.08
GREEN R. NR GREEN RIVER, WYO.													12	0.08
GREEN RIVER BELOW GREEN RIVER WYO													12	0.08
HENRY'S FORK NR MANTUA, UT	XX	X	X	X	XX	0	XX	XX		XX			10	1.00
BLACKS FK NR LYMAN WYO	XX	XX	XX	XX			XX	XX	XX	YY	XX	XX	12	1.00
BLACKS FORK RIVER NEAR LITTLE AMERICA WY	XX	XX	XX			X		XX	X	YY	XX	XX	12	0.83
MUDGY CREEK NEAR HAMPTON WYO		XX	YY	X		XX		XX	XX	YY	XX	XX	10	1.00
SMITHS FORK NEAR LYMAN, WY								XX	XX	XX	XX	XX	12	0.42
RITTER CR R. LITTLE RITTER CR NR KANDA	XX	XX	XX			XX		XX	YY	YY	XX		11	1.00
KILLPECKER CREEK AT ROCK SPRINGS WYO		XX	XX			XX		XX	XX	YY	XX	XX	10	1.00
SALT WELLS C NR S HAXTER WY	XX	X						X	XX	X		YY	11	0.73
SALT WELLS CREEK NEAR SALT WELLS WY		XX	XX					XX					4	1.00
RITTER CREEK NEAR RITTER CREEK, WYO	XX	XX	XX			XX		XX	XX	XX	XX	XX	0	1.00
BIG SANDY RIVER BELOW FDFN WYO	XX		XX	XX	YY			XX	XX	YY	XX	XX	11	1.00
BIG SANDY R AT GASSON BRIDGE, NR FDFN,	XX	XX	XX	XX	YY			XX	XX	XX	XX	YY	12	1.00
NORTH PLATTE RIVER BI. CASPER WYO					0								11	0.09
N PLATTE R NR GLENDOCK WYO					0	X							11	0.18
NORTH PLATTE R. AT ORIN, WYO.					X								13	0.08
NORTH PLATTE RIVER BELOW GLENDO RESERVOI	0												11	0.04
LARAMIE RIVER AT HOWELL, WY								X	X	XX	0		12	0.33
LARAMIE RIVER AT TWO RIVERS, WYO.								X	X	YY	X		12	0.33
MEDICINE BOW R NR SIMINOF RES. NR HANNA,	Y	XX	X	X				XX	XX	YY	XX	XX	12	0.83
MEDICINE BOW R NR MEDICINE BOW WYO	X					X	XX	XX	Y	X	XX	XX	11	0.73
SAGE CREEK NEAR SARATOGA, WYO		XX	X		X	XX	YY	XX	XX	YY			9	0.88

01147 SELENIUM

RITTER C NR SALT WELLS C NR SALT WELLS W

LEGEND: 0= EXCEEDS CRITERIA BY LESS THAN 15%

X= EXCEEDS CRITERIA BY MORE THAN 15% & LESS THAN 85%

XX= EXCEEDS CRITERIA BY MORE THAN 85%

4 0.25

TABLE 17. TABLE OF STATIONS WHERE WATER QUALITY CONCENTRATIONS EXCEEDS CRITERIA.

	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	%O.	EXC/PRECISE PROBABILITY
	---	---	---	---	---	---	---	---	---	---	---	---	0%	
01042 COPPER														
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
POWDER RIVER AT SUSSPFX, WYO.										XX			2	0.50
6 POWDER RIVER NEAR WESTON WY													3	0.25
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV													4	0.25
SALT WELLS C NR S BAXTER WY								0					4	0.25
RITTER CREEK NEAR RITTER CREEK, WYO								0					4	0.25
ENCAMPMENT RIVER AT HOG PARK CR NR ENCAMPMT									XX				1	1.00
01051 LEAD														
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
POWDER RIVER AT SUSSPFX, WYO.										XX			2	0.50
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV										XX			4	0.25
01092 TIN														
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	XX			2	0.50
POWDER RIVER AT SUSSPFX, WYO.														
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV										XX			4	0.25
01027 CADMIUM														
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
POWDER RIVER AT SUSSPFX, WYO.										XX			2	0.50
CRAZY WOMAN CREEK AT UPPER STA. NEAR ARV										XX			4	0.25

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PROCESSING COMPLETE FOR REQUESTED PERIOD

Table 18. Water Quality Trends

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
Beaver Cr nr Newcastle	D			D *							
Belle Fourche R nr Piney	I	D				D		D			
Little Powder R nr Weston	I		D *	I *			D*	D			
Clear Cr at Ucross		I			I *						
Clear Cr nr Arvada				D *		D	D*			D	
Piney Cr at Ucross					D			D	D		D
Crazy Woman Cr nr Arvada											D _{Cr} Pb Cd*
Crazy Woman Cr nr Arvada											D _{Pb*}
Salt Cr nr Sussex										D	
S Fork Powder R nr Kaycee										D	
Tongue R nr Dayton								I			
Shoshone R nr Lovell			D*								
Whistle Cr nr Garland										D	
Paint Rock Cr nr Mouth										D	
Nowood R at Manderson				D *			D*				
Beaver Cr nr Arapahoe			D*								
Hams Fork nr Diamondville					D			I			
Muddy Cr nr Hampton	D		D *		D	D*					D _{Hg}
Bitter Cr nr Kanda			I*							I	
Killpecker Cr at Rock Springs			D*	I *	D	I*				I	
Bitter Cr nr Bitter Creek	D	D*	I *	D *		D*	I				D _{Cu} Hg
Big Sandy R nr Eden				I *				I			
N Platte R nr Sinclair								I			

Table 18 (continued). Water Quality Trends

WYOMING

Stations and Parameters where Significant Statistical Differences were Observed.
 Legend: I = Improving Trend; D = Degrading Trend; * = Parameter concentrations are at high levels.

Station	Bacteria	Nitrogen	Phosphorus	Dissolved Solids	Suspended Solids	Ammonia	Sulfate	Chloride	Calcium	Hardness	Metals
N Platte R at Alcova										I	
N Platte R nr Glenrock										I	
Laramie R nr Ft Laramie								I	I		
Little Laramie at Two Rivers				D							
Sweetwater R nr Alcova								I			
Little Medicine Bow R nr											
Medicine Bow					D*			D*		D	
Salt R nr Etna				D*							
Cache Cr nr Jackson										I	
Cheyenne R Nr Dull Center					I *						I Cd
Belle Fourche R Abv Dry Creek					D *						
Powder R Nr Kaycee					D *						
Powder R at Arvada					D *						
Bighorn R at Kane					D *						
Shoshone R Nr Cody	D			D							
Little Wind R Nr Riverton					I *						
Green R Nr LaBarge							D				
Green R Nr Green River	D										
Salt Wells Cr					I *						
N Platte R at Mills					I					I	
N Platte R at Casper					I	I *					
N Platte R blw Casper	I *	I		I							

APPENDIX
State Water Quality Standards or Other
Criteria Used in the Stream Quality Analysis

EPA WATER QUALITY CRITERIA

Legend of Symbols Used in the Following Table

- * Guideline only
- (1) Green Book
- (2) Blue Book
- (3) Red Book
- (4) Primary Drinking Water Regulation
- (5) Secondary Drinking Water Regulation
- (6) March 15, 1979, Federal Register
- (7) July 25, 1979, Federal Register
- (8) October 1, 1979, Federal Register
- (9) Willingham, W.T. - EPA

EPA Water Quality Criteria

STORET CODE	PARAMETER	AQUATIC LIFE	DRINKING WATER	PRIMARY CONTACT RECREATION
00010	Temperature Deg Cent	Variable * (1) 20° C max. 30° C max. cold water warm water	NA	NA
00070	Turbidity NTU	Variable * (1) 10 - 50	NA	NA
00093	Conductivity µhos/cm	NA	NA	NA
00300	Dissolved Oxygen mg/L	5.0 (3) min.	NA	NA
00400	pH SI	6.5 - 9.0 (3)	5.0 - 9.0 (3)	6.5 - 8.3 * (2)
00550	Oil & Grease Tot - Salt mg/L	0.01 x 96 hr LC50 (3) 0.01 * (3)	Free from (1)	Free from (1)
00619	Un-ionized Ammonia mg/L	0.02 (3)	NA	NA
00810	Total Ammonia mg/L	NA	0.5 * (2)	NA
00820	Total Nitrate mg/L	NA	10 (4)	NA
00815	Total Nitrate mg/L	0.05 - 0.5 * (9)	1.0 * (2)	NA
00630	Total Nitrate + Nitrite mg/L	NA	10.0 (4)	NA
00640	Total Soluble Inorganic N mg/L	Variable 0.1 - 1.0 * (9)	NA	Variable 0.1 - 1.0 * (9)
00665	Total Phosphorus mg/L	Variable 0.01 - 0.1 * (1,2,3)	NA	Variable 0.01 - 0.1 * (1,2,3)
00720	Total Cyanide mg/L	0.005 (3)	0.2 * (2,7)	NA
00940	Chloride mg/L	NA	250 (5)	NA
00945	Sulfate mg/L	NA	250 (5)	NA
00951	Fluoride mg/L	NA	1.4 - 2.4 (4) depends on avg. air temp.	NA
01002	Total recov. Arsenic µg/L	57 - 24 hr avg. (6) 130 - max	0.05 (4)	NA
01007	Total recov. Barium µg/L	NA	1000	NA
01012	Total recov. Beryllium µg/L	* (1.24 ln (HARD)-4.38) (6)	0.087 - 0.00087 (6)	NA
01022	Total recov. Boron µg/L	NA	NA	NA
01027	Total recov. Cadmium µg/L	* (1.31 ln (HARD)-3.92) max	10	NA
01033	Trivalent Chromium µg/L	* (0.83 ln (HARD)+3.72) max	NA	NA
01034	Total recov. Chromium µg/L	100 (3)	50 (3)	NA
01042	Total recov. Copper µg/L	* (0.88 ln (HARD)-1.03) max (7)	1000 (5)	NA
01045	Total recov. Iron µg/L	1000	NA	NA
01046	Dissolved Iron µg/L	NA	300 (5)	NA
01051	Total recov. Lead µg/L	* (1.51 ln (HARD)-1.39 max (6)	50 (4)	NA
01055	Total recov. Manganese µg/L	NA	50 (5)	NA
01067	Total recov. Nickel µg/L	* (0.47 ln (HARD)+4.19) max (7)	NA	NA
01077	Total recov. Silver µg/L	1.9 max (6)	50 (4)	NA
	Total Inorganic Mercury µg/L	3.2 max (8)	0.2 (7)	NA
	Methyl Mercury µg/L	8.8 max	NA	NA
01092	Total recov. Zinc µg/L	* (0.64 ln (HARD)+2.46) max (7)	5000 (5)	NA
01147	Total recov. Selenium µg/L	22 max (6)	10 (4)	NA
31614	Fecal Coliform mpn #/100 mL	NA	NA	200 30-day geo. mean 400 7-day geo. mean (3)
32730	Total Phenols µg/L	1 (3)	1 (3)	NA
50060	Total residual Chlorine µg/L	2 coldwater 10 warmwater (3)	NA	NA
70300	Dissolved Residue @180°C	NA	500 (5)	NA
CC530 70299 E0154	Suspended Solids mg/L	30		

STORET CODE	PARAMETER	SECONDARY CONTACT RECREATION	LIVESTOCK WATERING	IRRIGATION
00010	Temperature Deg Cent	NA	NA	NA
00070	Turbidity JTU	NA	NA	NA
00095	Conductivity µhos/cm	NA	NA	Variable * (2) <500 to >3000
00300	Dissolved Oxygen mg/L	NA	NA	NA
00400	pH SU	NA	NA	4.5 - 9.0 * (2)
00550	Oil & Grease Tot - Sulfur µg/L	Free from (1)	Free from (1)	Free from (1)
00619	Un-ionized Ammonia µg/L	NA	NA	NA
00610	Total Ammonia µg/L	NA	NA	NA
00620	Total Nitrate µg/L	NA	NA	NA
00615	Total Nitrate µg/L	NA	10.0 * (2)	NA
00630	Total Nitrate + Nitrite µg/L	NA	100.0 * (2)	NA
00640	Total Soluble Inorganic N µg/L	NA	NA	NA
00665	Total Phosphorus µg/L	NA	NA	NA
00720	Total Cyanide µg/L	NA	NA	NA
00940	Chloride µg/L	NA	NA	Variable * (2) <3 to 20 meq/L
00945	Sulfate µg/L	NA	NA	NA
00951	Fluoride µg/L	NA	NA	Variable * (2) 1.0 - 15.0
01002	Total recov. Arsenic µg/L	NA	200 * (2)	100 (3)
01007	Total recov. Barium µg/L	NA	NA	NA
01012	Total recov. Beryllium µg/L	NA	NA	Variable (3) 50 - 100
01022	Total recov. Boron µg/L	NA	5000 * (2)	250 (3)
01027	Total recov. Cadmium µg/L	NA	50 * (2)	Variable 10 - 50 * (2)
01033	Trivalent Chromium µg/L	NA	NA	NA
01034	Total recov. Chromium µg/L	NA		Variable 100 - 1000 * (2)
01042	Total recov. Copper µg/L	NA	500 * (2)	Variable 200 - 5000 * (2)
01045	Total recov. Iron µg/L	NA	NA	Variable 5000 - 20000 * (2)
01046	Dissolved Iron µg/L	NA	NA	NA
01051	Total recov. Lead µg/L	NA	100 * (2)	Variable 5000 - 10000 * (2)
01055	Total recov. Manganese µg/L	NA	NA	Variable 200 - 1000 * (2)
01067	Total recov. Nickel µg/L	NA	NA	Variable 200 - 2000 * (2)
01077	Total recov. Silver µg/L	NA	NA	NA
	Total inorganic Mercury µg/L	NA	10 * (2)	NA
	Methyl Mercury µg/L	NA	NA	NA
01092	Total recov Zinc µg/L	NA	25000 * (2)	Variable 2000 - 10000 * (2)
01147	Total recov. Selenium µg/L	NA	50 * (2)	20 * (2)
31614	Fecal Coliform cfu/100 mL	1000 30-day geo mean 2000 7-day geo mean (2)	NA	1000 max * (2)
32730	Total Phenols µg/L	NA	NA	NA
50060	Total residual Chlorine µg/L	NA	NA	NA
70300	Dissolved Residue 918°C	NA	Variable to 10000 * (2)	Variable to 10000 * (2)
00530 70259 80154-	Suspended Solids mg/L			

COLORADO
Water Quality Standards

Stream Segment Classifications

<u>Classification</u>	<u>Description</u>	EPA Region 8 Segment Code
A1	Contact recreation, cold water fishery	15
A2	Contact recreation, warm water fishery	16
B1	No contact recreation, cold water fishery	17
B2	No contact recreation, warm water fishery	18

COLORADO

Water Quality Standards Or Criteria Used In The Stream Quality Analysis

PARAMETER	STORET CODE	Classification			
		A1	A2	B1	B2
1. D.O.	00300	6	5	6	5
2. Fecal Colif.	31616	200	200	1000	1000
3. Fecal Colif.	31615	200	200	1000	1000
4. Fecal Colif.	31625	200	200	1000	1000
5. Total Colif.	31501	2000	2000	10000	10000
6. Total Colif.	31505	2000	2000	10000	10000
7. Total Nitrite-N	00615	.5	.5	.5	.5
8. Total Nitrogen	00600	10	10	10	10
9. Total Nitrate-N	00620	10	10	10	10
10. Total Nitrate-N	00630	10	10	10	10
11. Total NO ₃ - NO ₃	71850 1/	10	10	10	10
12. Total PO ₄ - P	00665	.1	.1	.1	.1
13. Total PO ₄ - PO ₄	00650 2/	.1	.1	.1	.1
14. Total PO ₄ - P	70505	.1	.1	.1	.1
15. TDS	00515	500	500	500	500
16. TDS	70300	500	500	500	500
17. TDS	70301	500	500	500	500
18. TDS	70295	500	500	500	500
19. Conductivity	00095	833	833	833	833
20. Turbidity	00070	25	25	25	25
21. Susp. Solids	00530	90	90	90	90
22. Susp. Solids	70299	90	90	90	90
23. Susp. Solids	30154	90	90	90	90
24. Chloride	00940	250	250	250	250
25. Sulfate	00945	250	250	250	250
26. Unionized NH ₃	00619	.02	.02	.02	.02
27. NH ₃ - NH ₄ -N	00608	.02	.02	.02	.02
28. NH ₃ - NH ₄ -N	00610	.02	.02	.02	.02
29. Cyanide	00720	.005	.005	.005	.005
30. Arsenic	1002	130	130	130	130
31. Total Chromium	1034	100	100	100	100
32. Total Selenium	1147	22	22	22	22
33. Mercury	71900	3.2	3.2	3.2	3.2

1/ Observed concentration multiplied by 0.226.

2/ Observed concentration multiplied by 0.326.

MONTANA

Water Quality Standards

Stream Segment Classifications

<u>Classification</u>	<u>Description</u>	EPA Region 8 Segment Code
A A closed	Domestic use, access restricted	26
A-1 A open D1	Domestic use after treatment by simple disinfection, normal access	27
B-1 B-D1	Domestic use after treatment, salmonid fish propagation	28
B-2 B-D2	Domestic use after treatment, marginal salmonid fish propagation	29
B-3 B-D3	Domestic use after treatment, nonsalmonid fish propagation	30
C-1 C-D1	Contact recreation, salmonid fish propagation	31
C-2 C-D2	Contact recreation, marginal salmonid fish propagation	32
C-3	Contact recreation, nonsalmonid fish propagation	33
E E-F	Agriculture and Industry	34

MONTANA

Water Quality Standards Or Criteria Used In The Stream Quality Analysis

PARAMETER	STORET CODE	Segment Classification 1/								
		A	A-1	B-1	B-2	B-3	C-1	C-2	C-3	E
1. D.O.	00300	5	7	7	6	5	7	6	6	3
2. Fecal Colif.	31616	50	50	200	200	200	200	200	200	200
3. Fecal Colif.	31615	50	50	200	200	200	200	200	200	200
4. Fecal Colif.	31625	50	50	200	200	200	200	200	200	200
5. Total Colif.	31501	50	50	2000	2000	2000	2000	2000	2000	2000
6. Total Colif.	31505	50	50	2000	2000	2000	2000	2000	2000	2000
7. Total Nitrite-N	00615	1	1	.05	.05	.5	.5	.5	.5	1
8. Total Nitrogen	00600	10	10	1	1	1	1	1	1	1
9. Total Nitrate-N	00620	10	10	1	1	1	1	1	1	1
10. Total Nitrite Nitrate	00630	10	10	1	1	1	1	1	1	1
11. Total NO ₃ - NO ₂	71850 ^{2/}	10	10	1	1	1	1	1	1	1
12. Total PO ₄ - P	00665	.1	.1	.1	.1	.1	.1	.1	.1	.1
13. Total PO ₄ - PO ₄	00650 ^{3/}	.1	.1	.1	.1	.1	.1	.1	.1	.1
14. Total PO ₄ - P	70505	.1	.1	.1	.1	.1	.1	.1	.1	.1
15. TDS	00515	500	500	500	500	500	500	500	500	500
16. TDS	70300	500	500	500	500	500	500	500	500	500
17. TDS	70301	500	500	500	500	500	500	500	500	500
18. TDS	70295	500	500	500	500	500	500	500	500	500
19. Conductivity	00095	833	833	833	833	833	833	833	833	833
20. Turbidity	00070	25	25	25	25	25	25	25	25	25
21. Susp. Solids	00530	90	90	30	90	90	30	90	90	150
22. Susp. Solids	70299	90	90	30	90	90	30	90	90	150
23. Susp. Solids	80154	90	90	30	90	90	30	90	90	150
24. Chloride	00940	250	250	250	250	250	250	250	250	250
25. Sulfate	00945	250	250	250	250	250	250	250	250	250
26. Unionized NH ₃	00619	.02	.02	.02	.02	.02	.02	.02	.02	.02
27. NH ₃ + NH ₄ -N	00608	.02	.02	.02	.02	.02	.02	.02	.02	.02
28. NH ₃ + NH ₄ -N	00610	.02	.02	.02	.02	.02	.02	.02	.02	.02
29. Cyanide	00720	.2	.2	.005	.005	.005	.005	.005	.005	.2
30. Arsenic	1002	.05	.05	130	130	130	130	130	130	130
31. Total Chromium	1034	50	50	100	100	100	100	100	100	100
32. Total Selenium	1147	10	10	22	22	22	22	22	22	20
33. Mercury	71900	.2	.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2

1/ Refer to the next sheet for descriptions of classifications

2/ Observed concentration multiplied by 0.226.

3/ Observed concentration multiplied by 0.326.

NORTH DAKOTA
Water Quality Standards

Stream Segment Classifications

<u>Classification</u>	<u>Description</u>	EPA Region 8 Segment Code
I	Resident fish specie propagation; contact recreation; domestic use after simple treatment; irrigation, stock-watering, and wildlife use.	39
IA	Similar to Class I except softening may be required for domestic use.	40
II	Similar to class I except additional treatment may be required for domestic use.	41
III	Industrial and agricultural uses.	42

NORTH DAKOTA

Water Quality Standards Or Criteria Used In The Stream Quality Analysis

PARAMETER	STORET CODE	Classification			
		I	IA	II	III
1. D.O.	00300	5	5	5	5
2. Fecal Colif.	31616	200	200	200	200
3. Fecal Colif.	31615	200	200	200	200
4. Fecal Colif.	31625	200	200	200	200
5. Total Colif.	31501	2000	2000	2000	2000
6. Total Colif.	31505	2000	2000	2000	2000
7. Total Nitrite-N	00615	.5	.5	.5	.5
8. Total Nitrogen	00600	1	1	1.5	1.5
9. Total Nitrate N	00620	1	1	1.5	1.5
10. Total Nitrate N	00630	1	1	1.5	1.5
11. Total NO ₃ - NO ₂	71850 1/	1	1	1.5	1.5
12. Total PO ₄ - P	00665	.1	.1	.2	.2
13. Total PO ₄ - PO ₄	00650 2/	.1	.1	.2	.2
14. Total PO ₄ - P	70505	.1	.1	.2	.2
15. TDS	00515	500	500	500	500
16. TDS	70300	500	500	500	500
17. TDS	70301	500	500	500	500
18. TDS	70295	500	500	500	500
19. Conductivity	00095	833	833	833	833
20. Turbidity	00070	25	25	25	25
21. Susp. Solids	00530	90	90	90	90
22. Susp. Solids	70299	90	90	90	90
23. Susp. Solids	60154	90	90	90	90
24. Chloride	00940	100	175	250	250
25. Sulfate	00945	250	450	450	750
26. Unionized NH ₃	00619	.02	.02	.02	.1
27. NH ₃ + NO ₄ - N	00608	.02	.02	.02	.1
28. NH ₃ + NO ₄ - N	00610	.02	.02	.02	.1
29. Cyanide	00720	.005	.005	.005	.1
30. Arsenic	1002	50	50	50	100
31. Total Chromium	1034	50	50	50	50
32. Total Selenium	1147	10	10	10	10
33. Mercury	71900	2	2	2	2

1/ Observed concentration multiplied by 0.226.

2/ Observed concentration multiplied by 0.326.

SOUTH DAKOTA
Water Quality Standards

Stream segment classifications are made up of Uses #9 and 10 and combinations of uses listed below:

<u>Use Group</u>	<u>Description</u>
1.	Domestic water supply waters.
2.	Cold water permanent fish life propagation waters.
3.	Cold water marginal fish life propagation waters.
4.	Warm water permanent fish life propagation waters.
5.	Warm water semipermanent fish life propagation waters.
6.	Warm water marginal fish life propagation waters.
7.	Immersion recreation waters.
8.	Limited contact recreation waters.
9.	Wild life propagation and stock watering waters.
10.	Irrigation waters.
11.	Commerce and Industrial waters.

SOUTH DAKOTA

Water Quality Standards Or Criteria Used In The Stream Quality Analysis

PARAMETER	STORET CODE	Segment Classifications And Uses 1/												
		1,5,8 1,5,8	2 3,8	3 6,8	4 5,7,8	5 1,2,7,8	6 2,8	7 4,7,8	8 4,8	9 3,7,8	10 2,7,8	11 1,3,8	12 1,4,7,8	13 9,10
1. D.O.	00300	5	5	5	5	5	5	5	5	5	5	5	5	5
2. Fecal Colif.	31616	1000	1000	1000	200	200	1000	200	1000	200	200	1000	200	1000
3. Fecal Colif.	31615	1000	1000	1000	200	200	1000	200	1000	200	200	1000	200	1000
4. Fecal Colif.	31625	1000	1000	1000	200	200	1000	200	1000	200	200	1000	200	1000
5. Total Colif.	31501	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
6. Total Colif.	31505	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
7. Total Nitrite-N	00615	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
8. Total Nitrogen	00600	10	50	50	50	10	50	50	50	50	50	10	10	50
9. Total Nitrate-N	00620	10	50	50	50	10	50	50	50	50	50	10	10	50
10. Tot. Nitrite Nitrate-N	00630	10	50	50	50	10	50	50	50	50	50	10	10	50
11. Tot. NO ₃ - NO ₂ /	71850	10	50	50	50	10	50	50	50	50	50	10	10	50
12. Tot. PO ₄ - P	00665	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
13. Tot. PO ₄ - PO ₄ ³⁻	00650	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
14. Tot. PO ₄ - P	70505	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
15. TDS	00515	1000	5000	5000	5000	1000	5000	5000	5000	5000	5000	1000	1000	5000
16. TDS	70300	1000	5000	5000	5000	1000	5000	5000	5000	5000	5000	1000	1000	5000
17. TDS	70301	1000	5000	5000	5000	1000	5000	5000	5000	5000	5000	1000	1000	5000
18. TDS	70295	1000	5000	5000	5000	1000	5000	5000	5000	5000	5000	1000	1000	5000
19. Conductivity	00095	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
20. Turbidity	00070	25	25	25	25	25	25	25	25	25	25	25	25	25
21. Susp. Solids	00530	90	90	150	90	30	30	90	90	90	30	90	90	90
22. Susp. Solids	70299	90	90	150	90	30	30	90	90	90	30	90	90	90
23. Susp. Solids	80154	90	90	150	90	30	30	90	90	90	30	90	90	90
24. Chloride	00940	250	250	250	250	100	100	250	250	250	100	250	250	250
25. Sulfate	00945	500	500	500	500	500	500	500	500	500	500	500	500	500
26. Unionized NH ₃	00619	.04	.02	.05	.04	.02	.02	.04	.04	.04	.02	.02	.02	.05
27. NH ₃ + NH ₄ -N	00608	.04	.02	.05	.04	.02	.02	.04	.04	.04	.02	.02	.02	.05
28. NH ₃ + NH ₄ -N	00610	.04	.02	.05	.04	.02	.02	.04	.04	.04	.02	.02	.02	.04
29. Cyanide	00720	20	20	20	20	20	20	20	20	20	20	20	20	20
30. Arsenic	1002	50	50	50	50	50	50	50	50	50	50	50	50	50
31. Total Chromium	I034	50	100	100	100	50	100	100	100	100	100	100	100	100
32. Total Selenium	1147	10	10	10	10	10	10	10	10	10	10	10	10	10
33. Mercury	71900	.2	3.2	3.2	3.2	0.2	3.2	3.2	3.2	3.2	3.2	0.2	0.2	3.2
34. Copper	1042	.88												
35. Lead	1051	1.51												
36. Zinc	1092	0.64												
37. Cadmium	1027	1.31												
38. Chromium +++	1033	0.83												
39. Nickel	1067	0.47												
40. pH	00400	6.3	6.5	6.0	6.5	6.5	6.6	6.5	6.5	6.5	6.5	6.5	6.5	6.0
41. Hardness														
42. Temp. °C														
43. Temp. °F														

1/ Refer to the next sheet for description of uses

2/ Observed concentration multiplied by 0.226 for compatibility in parameter category

3/ Observed concentration multiplied by 0.326 for compatibility in parameter category

UTAH
Water Quality Standards

Stream Segment Classifications

<u>Classification</u>	<u>Description</u>	EPA Region 8 Segment Code
1C	Domestic supply with treatment	19
2B	Limited contact recreation	20
3A	Cold water game fisheries	21
3B	Warm water game fisheries	22
3C	Nongame fisheries	23
3D	Water oriented wild life use	24
4	Agriculture use	25

UTAH

Water Quality Standards Or Criteria Used In The Stream Quality Analysis

PARAMETER	STORET CODE	Classification						
		IC	2B	3A	3B	3C	3D	4
1. D.O.	00300	5.5	5.5	6.0	5.5	4.0	5.5	2.0
2. Fecal Colif.	31616	2000	200	200	200	200	2000	2000
3. Fecal Colif.	31615	2000	200	200	200	200	2000	2000
4. Fecal Colif.	31625	2000	200	200	200	200	2000	2000
5. Total Colif.	31501	5000	5000	5000	5000	5000	5000	5000
6. Total Colif.	31505	5000	5000	5000	5000	5000	5000	5000
7. Total Nitrite-N	00615	1.0	1.0	.05	0.5	0.5	0.5	0.5
8. Total Nitrogen	00600	10	4	4	4	4	4	4
9. Total Nitrate N	00620	10	4	4	4	4	4	4
10. Total Nitrate N	00630	10	4	4	4	4	4	4
11. Total NO ₃ - NO ₃	71850 1/	10	4	4	4	4	4	4
12. Total PO ₄ - P	00665	.05	.05	.05	.05	.5	.05	.05
13. Total PO ₄ - PO ₄	00650 2/	.05	.05	.05	.05	.5	.05	.05
14. Total PO ₄ - P	70505	.05	.05	.05	.05	.5	.05	.05
15. TDS	00515	500	500	500	500	500	500	1200
16. TDS	70300	500	500	500	500	500	500	1200
17. TDS	70301	500	500	500	500	500	500	1200
18. TDS	70295	50	50	50	50	50	50	1200
19. Conductivity	00095	8.33	8.33	8.33	8.33	8.33	8.33	8.33
20. Turbidity	00070	25	25	25	25	25	25	25
21. Susp. Solids	00530	90	90	90	90	90	90	90
22. Susp. Solids	70299	90	90	90	90	90	90	90
23. Susp. Solids	80154	90	90	90	90	90	90	90
24. Chloride	00940	250	250	250	250	250	250	250
25. Sulfate	00945	250	250	250	250	250	250	250
26. Unionized NH ₃	00619	.02	.02	.02	.02	.02	.02	.02
27. NH ₃ + NO ₄ -N	00608	.02	.02	.02	.02	.02	.02	.02
28. NH ₃ + NO ₂ -N	00610	.02	.02	.02	.02	.02	.02	.02
29. Cyanide	00720	.005	.005	.005	.005	.005	.005	.005
30. Arsenic	01002	130	130	130	130	130	130	130
31. Total Chromium	01034	100	100	100	100	100	100	100
32. Total Selenium	01147	22	22	22	22	22	22	22
33. Mercury	71900	2	.05	.05	.05	.05	2	2

1/ Observed concentration multiplied by 0.226.

2/ Observed concentration multiplied by 0.326.

WYOMING
Water Quality Standards

Stream Segment Classifications

<u>Classification</u>	<u>Description</u>	EPA Region 8 Segment Code
I	Nondegradation segment	35
II	Game fish propagation	36
III	Nongame fish propagation	37
IV	Unsuitable for fish propagation	38

WYOMING

Water Quality Standards Or Criteria Used In The Stream Quality Analysis

PARAMETER	STORET CODE	Classification			
		I	II	III	IV
1. D.O.	00300	6	6	5	2
2. Fecal Colif.	31616	1000	1000	1000	200
3. Fecal Colif.	31615	1000	1000	1000	200
4. Fecal Colif.	31625	1000	1000	1000	200
5. Total Colif.	31501	1000	1000	1000	200
6. Total Colif.	31505	1000	1000	1000	200
7. Total Nitrite-N	00615	.5	.5	.5	10
8. Total Nitrogen	00600	10	10	10	10
9. Total Nitrate N	00620	10	10	10	10
10. Total Nitrite N	00630	10	10	10	100
11. Total NO ₃ - NO ₂	71850 1/	10	10	10	10
12. Total PO ₄ - P	00665	.1	.1	.1	.1
13. Total PO ₄ - PO ₄	00650 2/	.1	.1	.1	.1
14. Total PO ₄ - P	70505	.1	.1	.1	.1
15. TDS	00515	500	500	500	500
16. TDS	70300	500	500	500	500
17. TDS	70301	500	500	500	500
18. TDS	70295	500	500	500	500
19. Conductivity	00095	833	833	833	833
20. Turbidity	00070	25	25	25	25
21. Susp. Solids	00530	30	30	90	90
22. Susp. Solids	70299	30	30	90	90
23. Susp. Solids	80154	30	30	90	90
24. Chloride	00940	250	250	250	250
25. Sulfate	00945	250	250	250	250
26. Unionized NH ₃	00619	.02	.02	.02	.02
27. NH ₃ + NH ₄ - N	00608	.02	.02	.02	.02
28. NH ₃ + NH ₄ - N	00610	.02	.02	.02	.02
29. Cyanide	00720	.005	.005	.005	.005
30. Arsenic	1002	130	130	130	130
31. Total Chromium	1034	100	100	100	100
32. Total Selenium	1147	22	22	22	22
33. Mercury	71900	3.2	3.2	3.2	3.2

1/ Observed concentration multiplied by 0.226.

2/ Observed concentration multiplied by 0.326.

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1 REPORT NO	2	3 RECIPIENT'S ACCESSION NO
EPA - 908/2-80-001		
4 TITLE AND SUBTITLE Water Quality Trends in Region VIII (1979 Data) U.S. Environmental Protection Agency		5 REPORT DATE October 1980
7 AUTHOR(S) Thomas A. Entzminger, Richard Sotiros, W. T. Willingham		6 PERFORMING ORGANIZATION CODE
9 PERFORMING ORGANIZATION NAME AND ADDRESS U.S. Environmental Protection Agency Surveillance And Analysis Division 1860 Lincoln Street Denver, Colorado 80295		8 PERFORMING ORGANIZATION REPORT NO
12 SPONSORING AGENCY NAME AND ADDRESS		10 PROGRAM ELEMENT NO
		11 CONTRACT/GANT NO
		13 TYPE OF REPORT AND PERIOD COVERED Final
		14 SPONSORING AGENCY CODE
15 SUPPLEMENTARY NOTES		
16 ABSTRACT Water quality trends and status for the calendar year 1979 were determined for the six states in Region VIII. These states include Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming. Data resident in the EPA national data bank (STORET) were analyzed. Statistical tests which detect significant differences between two populations were utilized to show trends in water quality. The status and severity of stream pollutants were determined by comparing observed parameter concentrations to state Water Quality Standards or recognized criteria.		
17. KEY WORDS AND DOCUMENT ANALYSIS		
a DESCRIPTORS	b IDENTIFIERS/OPEN ENDED TERMS	c COSATI Field/Group
Water Quality Water Quality Index	Colorado Montana North Dakota South Dakota Utah Wyoming STORET	
18 DISTRIBUTION STATEMENT Release to public		19 SECURITY CLASS (<i>This Report</i>) Unclassified
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