SUMMARY OF WATER-QUALITY DATA

FOR SELECTED STREAMS IN COLORADO

By Michael W. Gaydos

U.S. GEOLOGICAL SURVEY

WATER-RESOURCES INVESTIGATIONS

OPEN-FILE REPORT 80-682

Prepared in cooperation with the

Colorado Department of Health,

Radiation and Hazardous Wastes Control Division

Lakewood, Colorado

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

For additional information
write to:

Colorado District Chief
U.S. Geological Survey, MS 415
Box 25046, Denver Federal Center
Lakewood, CO 80225

For sale by:

Open-File Services Section
Branch of Distribution
U.S. Geological Survey, MS 306
Box 25425, Denver Federal Center
Denver, CO 80225
(303) 234-5888

TABLES

METRIC CONVERSIONS

The inch-pound units used in this report may be converted to metric units by the following conversion factors:

To convert	*Multiply by*	*To obtain*
square mile	2.590	square kilometer
cubic foot per second	0.02832	cubic meter per second

CONTENTS

ILLUSTRATIONS

SUMMARY OF WATER-QUALITY DATA FOR SELECTED STREAMS IN COLORADO

By Michael W. Gaydos

ABSTRACT

This report presents the first statewide summary of water-quality data for selected streams in Colorado. Included in the report is a tabulation of the 165 surface-water-sampling sites for which five or more analyses of major chemical constituents were available at the end of the 1978 water year and a tabulation of the types--major chemical constituents, trace constituents, biological constituents, pesticides, or radiochemicals--and number of water-quality analyses available for each of the 165 sites. Also included are statistical summaries, including regression summaries showing the relation between specific conductance and major chemical constituents, for 117 sites for which 20 or more analyses of major chemical constituents are available. Examples of linear-regression plots of specific conductance and selected major chemical constituents based on data from the Eagle River at Gypsum, Colo., are presented. Decisions to modify the frequency of collection or the types of constituents determined are facilitated by the statistical summaries.

INTRODUCTION

Water-quality data have been collected for many years at surface-water sites throughout Colorado. Most of these data have been published either in interpretive or in hydrologic-data reports. However, except for data included in specific project-area reports or in special reports, such as one concerning computation of salt loads in water from the Colorado River in the Grand Valley (Brennan and Grozier, 1976), only limited efforts have been made to summarize available water-quality data in a format that would be usable by public-health officials, land-use planners, and water managers.

To provide public-health officials, land-use planners, and water managers with usable summaries of surface-water-quality data, the U.S. Geological Survey, in cooperation with the Colorado Department of Health, Radiation and Hazardous Wastes Control Division, began a 1-year study in 1978 to summarize the water-quality data contained in the files of the Geological Survey. The objectives of the study were:

1. To list all surface-water sites in the State for which five or more water-quality analyses of major chemical constituents are available, and to tabulate the types of water-quality data such as major chemical constituents, trace constituents, biological constituents, pesticides, and radiochemicals.

2. To provide data in a form for evaluating possible changes in sampling-site locations, frequency of sample collection, and constituents analyzed.

3. To statistically summarize water-quality data from sites for which at least 20 analyses of major chemical constituents were available at the end of the 1978 water year (October 1977 through September 1978).

Only water-quality data collected and analyzed by the U.S. Geological Survey and stored in the Survey's Water Data Storage and Retrieval System (WATSTORE) were used in the study. The statistical summaries and linear-regressions and plots included in the report were prepared using Statistical Analysis System (SAS) computer programs (Barr and others, 1976).

No attempt has been made in this report to discuss the significance of the individual chemical constituents in water, because many reports and texts include these in adequate detail. The reader is referred to the drinking-water regulations published by the Colorado Department of Health (1977) and the U.S. Environmental Protection Agency (1976, 1977) for a comprehensive discussion of all recommended and mandatory standards.

HISTORICAL AND CURRENT PROGRAMS

For many years the U.S. Geological Survey collected water-quality data from surface-water sources in Colorado to determine major chemical constituents, sediment concentrations, measurements of pH, specific conductance, and water temperature. However, few programs included routine determination of trace constituents such as biological constituents, pesticides, or radiochemicals until the early 1970's.

At least two factors contributed significantly to the expansion of the U.S. Geological Survey's surface-water-quality programs during the 1970's: Increased knowledge and awareness of the potential effects of water-quality constituents other than major constituents; and development and improvement of analytical techniques and equipment to permit accurate and routine determination of these constituents. As a result the U.S. Geological Survey's current (1978) water-quality data-collection activities in the State have been expanded to include various combinations of constituents at about 165 surface-water sites (pl. 1). The frequency of data collection at these sites during the 1978 water year ranged from continuous monitoring to monthly or quarterly sampling.

Water-quality data have been collected at about 340 surface-water sites in the State. At least five analyses of major chemical constituents are available for 48 sites and at least 20 analyses of major chemical constituents are available for 117 of 165 sites through the 1978 water year (table 1 and pl. 2).

Table 1.--*Period of record of selected surface-water sites for which at least five water-quality analyses of major chemical constituents are available*

[D=Daily samples; M=Monthly samples; I=Intermittent samples; period of record in water years; italicized station numbers indicate 5 to 19 analyses available; nonitalicized station numbers indicate 20 or more analyses available]

U.S. Geological Survey station number	Station name	Frequency of sampling and period of record
06611100	Grizzly Creek near Spicer, Colo.	M 1977-78
06611200	Buffalo Creek near Hebron, Colo.	M 1977-78
06611300	Grizzly Creek near Hebron, Colo.	M 1977-78
06611800	Little Grizzly Creek above Coalmont, Colo.	M 1977-78
06611900	Little Grizzly Creek above Hebron, Colo.	M 1977-78
06620000	North Platte River near Northgate, Colo.	I 1965
		M 1966-78
06714200	Burlington Ditch below headgate, at Denver, Colo.	M 1963-67
06719500	Clear Creek near Golden, Colo.	I 1958, 1972-74
06720500	South Platte River at Henderson, Colo.	D July 1955-57
		M 1963-73
06722000	North St. Vrain Creek at Longmont Dam, near Lyons, Colo.	M 1972-78
06723400	South St. Vrain Creek above Lyons, Colo.	M 1972-78
06724000	St. Vrain Creek at Lyons, Colo.	M 1977-78
06724600	Left Hand Creek at Altona, Colo.	M 1972-78
06725000	Left Hand Creek at mouth, at Longmont, Colo.	M 1977-78
06725450	St. Vrain Creek below Longmont, Colo.	M 1977-78
06731000	St Vrain Creek at mouth, near Platteville, Colo.	I 1952-56
		I 1962-65
		M 1966-68
		M 1971-78
06733000	Big Thompson River at Estes Park, Colo.	I 1974-75
06734900	Olympus Tunnel at Lake Estes, Colo.	M 1971-78
06736700	Big Thompson River above Dille Tunnel, near Drake, Colo.	M 1971-78
06737500	Horsetooth Reservoir near Ft. Collins, Colo.	M 1970-78
06742500	Carter Lake near Berthoud, Colo.	M February 1970-78
06744000	Big Thompson River at mouth, near La Salle, Colo.	I 1954-56
		M 1968
		M 1971-78
06747500	Cache La Poudre River near Rustic, Colo.	M 1972-75
06752000	Cache La Poudre River at mouth of canyon, near Ft. Collins, Colo.	M 1972-78

Table 1.--*Period of record of selected surface-water sites for which at least five water-quality analyses of major chemical constituents are available*--Continued

U.S. Geological Survey station number	Station name	Frequency of sampling and period of record
06752260	Cache La Poudre River at Ft. Collins, Colo.	M April 1975-78
06752500	Cache La Poudre River near Greeley, Colo.	I 1952-56
		M December 1963-66
		M 1968
		M 1971-78
06754000	South Platte River near Kersey, Colo.	I 1947-50
		D December 1950-53
		M June 1962-64
		M 1966-70
		M 1977-78
06756995	South Platte River at Masters, Colo.	M 1977-78
06758500	South Platte River near Weldona, Colo.	M 1968
		M 1972-78
06759100	Bijou Creek near Ft. Morgan, Colo.	M 1977-78
06760000	South Platte River at Balzac, Colo.	I 1950-57
		M 1963-70
06764000	South Platte River at Julesburg, Colo.	D 1946-78
06764200	South Platte River near Julesburg, Colo.	M July 1969-July 1973
06822000	North Fork Republican River near Wray, Colo.	I 1947
		I 1961-65
06826500	South Fork Republican River near Hale, Colo.	I 1977-78
07079200	Leadville Drain at Leadville, Colo.	I 1965-67
		M 1968-69
		I 1970-78
07081200	Arkansas River near Leadville, Colo.	M 1968-69
07083000	Halfmoon Creek near Malta, Colo.	I 1965
		M 1967-78
07083700	Arkansas River near Malta, Colo.	I 1964
		I 1966-75
		M 1965
		M 1978
07084500	Lake Creek above Twin Lakes Reservoir, Colo.	I 1973
07086000	Arkansas River at Granite, Colo.	M 1968-69

Table 1.--*Period of record of selected surface-water sites for which at least five water-quality analyses of major chemical constituents are available*--Continued

U.S. Geological Survey station number	Station name	Frequency of sampling and period of record
07096000	Arkansas River at Canon City, Colo.	M 1964-65 M January 1966-68 M 1970-78
07097000	Arkansas River at Portland, Colo.	M 1977-78
07099200	Arkansas River near Portland, Colo.	M 1965-December 1976
07099400	Arkansas River above Pueblo, Colo.	M 1966-70
07099500	Arkansas River near Pueblo, Colo.	M 1964-65 I 1974-78
07106500	Fountain Creek at Pueblo, Colo.	M 1964-65 M 1974-78
07117000	Arkansas River near Nepesta, Colo.	M 1964-66 I 1974-78
07119500	Apishapa River near Fowler, Colo.	M 1964-65 M 1967-68 I 1969
07122000	Arkansas River near La Junta, Colo.	I 1962 M 1964-68 I 1969
07124000	Arkansas River at Las Animas, Colo.	D 1946 I 1962, 1978 M 1964-66
07128500	Purgatoire River near Las Animas, Colo.	I 1962 M 1964-68 I 1969
07130500	Arkansas River below John Martin Reservoir, Colo.	D January 1951-78
07133000	Arkansas River at Lamar, Colo.	M 1964-65 M 1970-June 1971
07137500	Arkansas River near Coolidge, Kans.	M 1964-68 I 1969 M 1970-73 D April 1975-78
08220000	Rio Grande near Del Norte, Colo.	M 1968
08223500	Rock Creek near Monte Vista, Colo.	M 1968
08224500	Kerber Creek at Ashley Ranch, near Villa Grove, Colo.	M 1968

Table 1.--*Period of record of selected surface-water sites for which at least five water-quality analyses of major chemical constituents are available*--Continued

U.S. Geological Survey station number	Station name	Frequency of sampling and period of record
08227000	Saguache Creek near Saguache, Colo.	M 1968
08227500	North Crestone Creek near Crestone, Colo.	I 1968
08229500	Cottonwood Creek near Crestone, Colo.	I 1968
08230500	Carnero Creek near La Garita, Colo.	M 1968
08234200	Mosca Creek near Mosca, Colo.	I 1968
08236000	Alamosa Creek above Terrace Reservoir, Colo.	M 1968
08241500	Sangre de Cristo near Ft. Garland, Colo.	M 1968
08246500	Conejos River near Mogote, Colo.	M 1968
08249200	Rio Grande above Culebra Creek, near Lobatos, Colo.	D 1947-65 M 1966-69
08249400	Culebra Creek near Chama, Colo.	M 1968
08251500	Rio Grande near Lobatos, Colo.	M 1970-March 1975 D March 1975-78
09013000	Alva B. Adams Tunnel at East Portal, near Estes Park, Colo.	M 1971-78
09019000	Colorado River below Lake Granby, Colo.	M July 1969-August 1970
09034500	Colorado River at Hot Sulphur Springs, Colo.	D 1947-78
09049200	West Tenmile Creek at Copper Mountain, Colo.	I 1973 M 1974-78
09066050	Black Gore Creek near Vail, Colo.	I 1973 M 1974-78
09066250	Gore Creek at Vail, Colo.	I 1973 M 1974-78
09069000	Eagle River at Gypsum, Colo.	D April 1947-78
09070500	Colorado River near Dotsero, Colo.	I 1970 M 1962-78
09071100	Colorado River near Glenwood Springs, Colo.	D 1942-78
09072500	Colorado River at Glenwood Springs, Colo.	D 1957 D 1959-60 M 1961-66
09083800	Crystal River below Carbondale, Colo.	M 1977-78

Table 1.--*Period of record of selected surface-water sites for which at least five water-quality analyses of major chemical constituents are available*--Continued

U.S. Geological Survey station number	Station name	Frequency of sampling and period of record
09085000	Roaring Fork River at Glenwood Springs, Colo.----------	I 1948-62 D May 1962-September 1967 I 1969-71 I 1976
09092570	Colorado River at Rulison, Colo.----------	M 1977
09092830	Northwater Creek near Anvil Points, Colo.----------	M 1977-78
09092960	East Fork Parachute Creek near Anvil Points, Colo.------	M 1977-78
09092970	East Fork Parachute Creek near Rulison, Colo.----------	M 1977-78
09093000	Parachute Creek near Grand Valley, Colo.----------	M June 1975-78
09093500	Parachute Creek at Grand Valley, Colo.----------	D 1975-78
09093700	Colorado River near De Beque, Colo.----------	I 1973 D 1974-78
09095000	Roan Creek near De Beque, Colo.----------	D 1975-78
09095500	Colorado River near Cameo, Colo.----------	D 1934-78
09095530	Government Highline Canal near Mack, Colo.----------	D August 1973-78
09105000	Plateau Creek near Cameo, Colo.----------	I 1969-78 D 1972-May 1975
09106200	Lewis Wash near Grand Junction, Colo.----------	D April 1973-78
09137300	Gunnison River at Austin, Colo.----------	D May 1962-June 1963
09152500	Gunnison River near Grand Junction, Colo.----------	D 1932-78
09152600	Orchard Mesa Drain at Grand Junction, Colo.----------	D April 1973-78
09152650	Leach Creek at Durham, Colo.----------	D April 1973-78
09152900	Adobe Creek near Fruita, Colo.----------	D April 1973-78
09153270	Big Salt Wash at Fruita, Colo.----------	D March 1973-78
09153300	Reed Wash near Loma, Colo.----------	D April 1973-78
09153400	West Salt Creek near Mack, Colo.----------	D September 1973-78
09163050	Badger Wash near Mack, Colo.----------	D June 1973-78

Table 1.--*Period of record of selected surface-water sites for which at least five water-quality analyses of major chemical constituents are available*--Continued

U.S. Geological Survey station number	Station name	Frequency of sampling and period of record
09163310	East Salt Creek near Mack, Colo.	D July 1973-78
09163340	Mack Wash near Mack, Colo.	D August 1973-78
09163490	Salt Creek near Mack, Colo.	D April 1973-78
09163500	Colorado River near Colorado-Utah State Line	M 1970 I 1969-77
09163530	Colorado River below Colorado-Utah State Line	D May 1962-69 D 1973-78
09177000	San Miguel River at Uravan, Colo.	I 1947-50 M August 1969-78
09177100	San Miguel River below Uravan, Colo.	I 1948-49 M August 1969-78
09179500	Dolores River at Gateway, Colo.	D 1948-52 M January 1970-73
09243700	Middle Creek near Oak Creek, Colo.	D 1976-78
09243800	Foidel Creek near Oak Creek, Colo.	D 1976-78
09243900	Foidel Creek at Mouth, near Oak Creek, Colo.	D 1976-78
09244410	Yampa River below Diversion, near Hayden, Colo.	M June 1975-78
09246550	Yampa River below Elkhead Creek, near Craig, Colo.	M June 1975-78
09247600	Yampa River below Craig, Colo.	M June 1975-78
09249750	Williams Fork at mouth, near Hamilton, Colo.	M June 1975-78
09250400	Good Spring Creek at Axial, Colo.	M 1976-78 D 1977-78
09250510	Taylor Creek at mouth, near Axial, Colo.	I 1975 D July 1976-78
09250600	Wilson Creek near Axial, Colo.	D 1976-78
09250610	Jubb Creek near Axial, Colo.	D 1976-78

Table 1.--*Period of record of selected surface-water sites for which at least five water-quality analyses of major chemical constituents are available*--Continued

U.S. Geological Survey station number	Station name	Frequency of sampling and period of record
09251000	Yampa River near Maybell, Colo.----------	I 1947-50 D November 1950-August 1973 D August 1975-78
09259700	Little Snake River near Baggs, Wyo.----------	M July 1965-71 I 1972-78
09259950	Little Snake River above Lily, Colo.----------	D December 1950-December 1969
09260000	Little Snake River near Lily, Colo.----------	M January 1970-78 D January 1975-78
09303000	North Fork White River at Buford, Colo.----------	M 1977-78
09304000	South Fork White River at Buford, Colo.----------	M 1977-78
09304200	White River above Coal Creek, near Meeker, Colo.--------	D March 1973-75
09304500	White River near Meeker, Colo.----------	I 1947 D March 1973-November 1974
09304800	White River below Meeker, Colo.----------	M April 1974-78
09306007	Piceance Creek below Rio Blanco, Colo.----------	D April 1974-78
09306022	Stewart Gulch above West Fork, near Rio Blanco, Colo.---	D 1975-78
09306025	West Fork Stewart Gulch near Rio Blanco, Colo.----------	D April 1974-78
09306033	Sorghum Gulch near Rio Blanco, Colo.----------	D April 1974-78
09306039	Cottonwood Gulch near Rio Blanco, Colo.----------	D April 1974-78
09306058	Willow Creek near Rio Blanco, Colo.----------	D April 1974-78

Table 1.--*Period of record of selected surface-water sites for which at least five water-quality analyses of major chemical constituents are available*--Continued

U.S. Geological Survey station number	Station name	Frequency of sampling and period of record
09306061	Piceance Creek above Hunter Creek, near Rio Blanco, Colo.	D April 1974-78
09306175	Black Sulphur Creek near Rio Blanco, Colo.	D 1975-78
09306200	Piceance Creek below Ryan Gulch, near Rio Blanco, Colo.	M 1971-78
09306210	Piceance Creek near White River, Colo.	I 1947-58
		M 1971-76
		I 1966-69
09306222	Piceance Creek at White River, Colo.	D 1971-78
09306235	Corral Gulch below Water Gulch, near Rangely, Colo.	D March 1974-78
09306240	Box Elder Gulch near Rangely, Colo.	D April 1974-78
09306242	Corral Gulch near Rangely, Colo.	D March 1974-78
09306244	Corral Gulch at 84 Ranch, Colo.	D April 1975-78
09306255	Yellow Creek near White River, Colo.	I 1966-69
		D May 1974-78
09306300	White River above Rangely, Colo.	M August 1975-78
		I 1949-60
09306380	Douglas Creek at Rangely, Colo.	M 1977-78
09341200	Wolf Creek near Pagosa Springs, Colo.	M 1971-75
09343000	Rio Blanco near Pagosa Springs, Colo.	I 1973-74
09343300	Rio Blanco below Diversion Dam, near Pagosa Springs, Colo.	I 1973-74
09343400	Rio Blanco at U.S. Highway 84, near Pagosa Springs, Colo.	I 1973-74
09344300	Navajo River above Chromo, Colo.	I 1973-74
09346000	Navajo River at Edith, Colo.	I 1969-74
09346400	San Juan River near Carracas, Colo.	I 1969-73
09347200	Middle Fork Piedra River near Pagosa Springs, Colo.	M 1971-75
09352900	Vallecito River near Bayfield, Colo.	M 1963-68
		M August 1970-78
09354500	Los Pinos River at La Boca, Colo.	I 1969-74
09357500	Animas River at Howardsville, Colo.	M 1971-75
09358900	Mineral Creek above Silverton, Colo.	M 1971-75
09363500	Animas River near Cedar Hill, N. Mex.	M 1970-73

Table 1.--*Period of record of selected surface-water sites for which at least five water-quality analyses of major chemical constituents are available*--Continued

U.S. Geological Survey station number	Station name	Frequency of sampling and period of record
09366500	La Plata River at Colorado-New Mexico State Line---------	I 1969-73 M 1978
09370800	Mancos River near Cortez, Colo.----------	D July 1975-78
09371000	Mancos River near Towaoc, Colo.----------	I 1969-76
09372000	McElmo Creek near Colorado-Utah State line----------	I 1969-72 M 1978

TYPES OF WATER-QUALITY DATA AVAILABLE

The types of data, number of water-quality analyses of each type and the period during which the analyses were made are listed in table 2 for all sites having five or more analyses of major chemical constituents. Therefore, the tabulation shown in table 2 is useful in determining the need for relocating sampling sites, analyzing for additional constituents, or, in conjunction with the frequency data in table 1, for changing the frequency of sampling.

Descriptions of the types of water-quality data listed in table 2 are as follow:

1. Major constituents include dissolved calcium, magnesium, sodium, potassium, bicarbonate, carbonate, sulfate, chloride, fluoride, silica, total hardness as calcium carbonate ($CaCO_3$), and dissolved solids. Dissolved nitrate or dissolved nitrite plus nitrate also were determined for most samples. In addition to the constituents determined in the laboratory, several constituents commonly were measured at the time of sample collection. These include measurement of streamflow; the determination of pH, specific conductance, and water temperature; and the dissolved-oxygen concentration in water.

2. Trace constituents include arsenic, boron, cadmium, chromium, copper, iron, lead, manganese, mercury, selenium, and zinc. Many more determinations of iron and manganese are available because routine determinations for these constituents have been made for many years.

3. The types of pesticides routinely determined include the common organochlorine and organophosphorus insecticides and the chlorinated phenoxy-acid herbicides.

Table 2.--*Type and number of water-quality analyses available for selected surface-water sites*

[M=major chemical constituents, T=trace constituents, B=biological constituents, P=pesticides, R=radiochemicals]

U.S. Geological Survey station number	1949-60					1961-65					1966-69					1970-73					1974-78				
	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R
06611100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19	3	---	---	---
06611200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	16	3	---	---	---
06611300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	18	3	---	---	---
06611800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19	3	---	---	---
06611900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19	3	---	---	---
06620000	---	---	---	---	---	7	---	---	---	---	55	---	---	---	---	46	---	---	---	---	57	---	59	5	---
06714200	---	---	---	---	---	40	---	---	---	---	22	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06719500	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	1	---	---	---	---
06720500	78	---	---	---	---	40	---	---	---	---	48	---	---	---	---	49	4	38	12	---	---	5	---	---	---
06722000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	26	---	---	---	---	57	---	---	---	---
06723400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	26	---	---	---	---	58	1	1	---	1
06724000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	28	1	1	1	1
06724600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	28	---	---	---	---	55	---	---	---	---
06725000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	23	---	---	3	---
06725450	---	---	---	---	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	24	---	---	---	---
06731000	6	---	---	---	---	4	---	---	---	---	30	---	---	---	---	43	1	---	---	---	57	---	---	1	---
06733000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5	---	---	---	---
06734900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	33	---	---	36	---	52	---	---
06736700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	15	---	---	---	---
06737500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	123	---	75	---	---	108	---	108	---	---
06742500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	108	---	75	---	---	120	---	118	---	---
06744000	7	---	---	---	---	---	---	---	---	---	10	---	---	---	---	43	1	1	1	---	56	---	---	---	---
06747500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	26	1	---	---	---	21	---	---	---	---
06752000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	27	1	---	1	---	56	1	---	---	---
06752260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	41	---	---	---	---
06752500	7	---	---	---	---	24	---	---	---	---	18	---	---	---	---	43	1	---	---	---	57	1	---	---	---
06754000	92	---	---	---	---	30	---	---	---	---	45	---	---	---	---	14	1	---	8	---	32	---	---	---	---
06756995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	34	---	---	---	---
06758500	---	---	---	---	---	---	---	---	---	---	10	---	---	---	---	24	---	---	---	---	73	---	---	---	---
06759100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	34	---	---	---	---
06760000	21	---	---	---	---	41	---	---	---	---	45	---	---	---	---	9	---	---	---	---	---	---	---	---	---
06764000	223	---	---	---	---	91	---	---	---	---	20	---	---	---	---	12	3	6	---	---	56	20	57	18	15
06764200	---	---	---	---	---	---	---	---	---	---	7	---	---	---	---	33	---	---	4	21	---	---	---	---	2
06822000	14	---	---	---	---	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06826500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	15	---	---	---	---
07079200	---	---	---	---	---	---	---	---	---	---	28	24	---	---	---	4	4	---	---	---	1	1	---	---	---

Table 2.--*Type and number of water-quality analyses available for selected surface-water sites*--Continued

U.S. Geological Survey station number	1949-60					1961-65					1966-69					1970-73					1974-78				
	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R
07081200	---	---	---	---	---	---	---	---	---	---	21	18	---	---	---	---	---	---	---	---	---	---	---	---	---
07083000	---	---	---	---	---	2	2	---	---	---	36	5	---	---	4	49	7	30	4	5	58	---	49	1	5
07083700	---	---	---	---	---	13	13	---	---	---	4	---	---	---	---	6	7	---	---	---	13	---	---	---	---
07084500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4	4	---	---	---	---	---	---	---	---
07086000	---	---	---	---	---	---	---	---	---	---	21	19	---	---	---	1	---	---	---	---	---	---	---	---	---
07096000	---	---	---	---	---	23	---	---	---	---	34	---	---	---	---	34	---	---	---	---	36	---	---	---	---
07097000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	---	---	---	---
07099200	---	---	---	---	---	14	---	---	---	---	49	---	---	---	---	44	---	---	---	---	62	2	---	---	---
07099400	---	---	---	---	---	---	---	---	---	---	50	---	---	---	---	10	---	---	---	---	---	---	---	---	---
07099500	---	---	---	---	---	36	---	---	---	---	---	---	---	---	---	1	---	---	---	---	5	3	---	2	---
07106500	---	---	---	---	---	24	---	---	---	---	---	---	---	---	---	17	---	---	---	---	15	---	---	---	---
07117000	---	---	---	---	---	25	---	---	---	---	12	---	---	---	---	---	---	---	---	---	4	2	---	2	---
07119500	---	---	---	---	---	23	---	---	---	---	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07122000	---	---	---	---	---	23	---	---	---	---	39	---	---	---	---	4	---	---	---	---	---	---	---	---	---
07124000	[1]23	---	---	---	---	29	---	---	---	---	12	2	---	---	---	---	---	---	---	---	1	---	---	---	---
07128500	---	---	---	---	---	30	---	---	---	---	27	---	---	---	---	1	1	---	---	---	---	---	---	---	---
07130500	[1]275	---	---	---	---	220	---	---	---	---	120	1	---	14	---	48	21	---	20	---	53	---	---	---	1
07133000	---	---	---	---	---	24	---	---	---	---	2	---	---	---	---	40	1	---	---	---	---	---	---	---	---
07137500	---	---	---	---	---	37	---	---	---	---	44	2	---	---	---	53	---	---	---	---	41	14	35	14	---
08220000	---	---	---	---	---	---	---	---	---	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08223500	---	---	---	---	---	---	---	---	---	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08224500	---	---	---	---	---	---	---	---	---	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08227000	---	---	---	---	---	---	---	---	---	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08227500	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08229500	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08230500	---	---	---	---	---	---	---	---	---	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08234200	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08236000	---	---	---	---	---	---	---	---	---	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08241500	---	---	---	---	---	---	---	---	---	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08246500	---	---	---	---	---	---	---	---	---	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08249200	[1]204	---	---	---	---	305	---	---	---	---	33	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08249400	---	---	---	---	---	---	---	---	---	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08251500	---	---	---	---	---	---	---	---	---	---	27	---	---	---	---	33	---	---	---	18	33	15	37	13	12
09013000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	34	---	---	22	---	---	---	---
09019000	---	---	---	---	---	---	---	---	---	---	3	---	---	---	---	26	---	13	---	---	---	---	---	---	---

Table 2.--*Type and number of water-quality analyses available for selected surface-water sites*--Continued

U.S. Geological Survey station number	1949-60					1961-65					1966-69					1970-73					1974-78				
	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R
09034500	[1]376	---	---	---	---	235	---	---	---	---	---	---	---	---	---	46	---	---	---	---	46	---	---	---	---
09049200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	65	---	---	---	---
09066050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	61	---	---	---	---
09066250	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	69	---	---	---	---
09069000	[1]278	---	---	---	---	129	---	---	---	---	113	4	---	---	---	47	22	---	---	---	53	---	---	---	1
09070500	29	---	---	---	---	21	---	---	---	---	14	---	---	---	---	16	---	---	---	---	31	---	---	---	---
09071100	[1]787	---	---	---	---	98	---	---	---	---	95	3	---	---	---	47	21	---	---	---	52	---	---	---	---
09072500	111	---	---	---	---	23	---	---	---	---	2	2	---	---	---	---	---	---	---	---	---	---	---	---	---
09083800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	15	---	---	---	---
09085000	30	---	---	---	---	75	---	---	---	---	57	---	---	---	---	18	---	---	---	---	1	---	---	---	---
09092570	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	4	---	---	---
09092830	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	16	16	---	---	---
09092960	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	13	13	---	---	---
09092970	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	8	---	---	---
09093000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37	27	18	2	5
09093500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	45	43	---	---	---
09093700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	5	49	---	---	---	---
09095000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	42	41	---	---	---
09095500	[1]344	---	---	---	---	98	---	---	---	---	100	4	---	---	---	46	21	---	---	---	51	---	---	---	---
09095530	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	16	---	---	---	---
09105000	---	---	---	---	---	---	---	---	---	---	5	---	---	---	---	15	---	---	---	5	42	---	---	---	---
09106200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	---	---	---	---	27	1	---	---	---
09137300	---	---	---	---	---	48	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09152500	[1]595	---	---	---	---	127	---	---	---	---	143	3	---	---	---	47	23	---	---	---	51	14	28	---	---
09152600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	---	---	---	---	26	1	---	---	---
09152650	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	26	---	---	---	---
09152900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	30	---	---	---	---
09153270	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	27	---	---	---	---
09153300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	29	---	---	---	---
09153400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	---	---	---	---
09163050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	16	---	---	---	---
09163310	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	31	---	---	---	---
09163340	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	30	---	---	---	---
09163490	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	31	---	---	---	---
09163500	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	22	---	---	---	---	5	---	---	---	---

Table 2.--*Type and number of water-quality analyses available for selected surface-water sites*--Continued

U.S. Geological Survey station number	1949-60					1961-65					1966-69					1970-73					1974-78				
	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R
09163530	---	---	---	---	---	104	---	---	---	---	86	3	---	---	---	4	2	---	---	---	44	14	29	---	---
09177000	2	---	---	---	---	---	---	---	---	---	1	---	---	---	---	5	1	---	---	---	22	2	53	---	9
09177100	2	---	---	---	---	---	---	---	---	---	3	---	---	---	---	22	1	---	---	---	19	2	53	---	9
09179500	145	---	---	---	---	---	---	---	---	---	---	---	---	---	---	44	---	---	---	---	1	---	---	---	---
09243700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	26	10	---	---	---
09243800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	11	5	---	---	---
09243900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	4	---	---	---
09244410	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	47	12	31	1	1
09246550	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39	12	19	1	---
09247600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38	10	24	---	---
09249750	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39	10	24	---	---
09250400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	31	11	---	---	---
09250510	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	13	4	---	---	---
09250600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	41	15	---	---	---
09250610	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	18	6	---	---	---
09251000	[1]329	---	---	---	---	128	---	---	---	---	107	4	---	---	---	48	23	---	---	---	53	24	66	2	1
09259700	---	---	---	---	---	2	---	---	---	---	51	---	---	---	---	25	---	---	---	---	19	2	2	---	1
09259950	384	---	---	---	---	162	---	---	---	---	116	1	---	---	---	1	1	---	---	---	---	---	---	---	---
09260000	231	---	---	---	---	---	---	---	---	---	6	2	---	---	---	47	22	---	---	---	53	15	55	2	1
09303000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	16	5	---	---	---
09304000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	16	5	---	---	---
09304200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	8	---	---	---	---
09304500	[1]2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	4	---	---	---	---
09304800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	42	27	31	4	10
09306007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	78	70	10	6	13
09306022	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	61	56	10	6	12
09306025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40	39	2	1	3
09306033	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	2	---	3
09306039	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4	4	---	1	2
09306058	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	58	54	10	4	10
09306061	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	79	76	18	6	13
09306175	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	43	41	---	---	---
09306200	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	34	---	---	---	---	54	23	1	---	1
09306210	[1]2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	34	---	---	---	---	24	1	---	---	---
09306222	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	36	2	---	---	---	53	22	---	---	---

Table 2.--*Type and number of water-quality analyses available for selected surface-water sites*--Continued

U.S. Geological Survey station number	1949-60					1961-65					1966-69					1970-73					1974-78				
	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R	M	T	B	P	R
09306235	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	51	41	5	5	6
09306240	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	16	11	3	3	3
09306242	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	70	56	8	10	10
09306244	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	23	17	7	3	5
09306255	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	3	2	---	---	---	51	41	9	9	9
09306300	[1]2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	35	23	14	4	5
09306380	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	2	---	---	---
09341200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	28	---	---	---	---	19	---	---	---	---
09343000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	7	---	---	---	---
09343300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	6	---	---	---	---
09343400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	6	---	---	---	---
09344300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	7	---	---	---	---
09346000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19	---	---	---	---	10	6	---	---	---
09346400	---	---	---	---	---	---	---	---	---	---	3	---	---	---	---	21	---	---	---	---	---	---	---	---	---
09347200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	28	---	---	---	---	19	---	---	---	---
09352900	---	---	---	---	---	16	---	---	---	---	32	14	---	---	---	49	15	28	2	3	65	---	71	4	6
09354500	---	---	---	---	---	---	---	---	---	---	3	---	---	---	---	21	5	---	---	---	1	---	---	---	---
09357500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	28	---	---	---	---	19	---	---	---	---
09358900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	28	---	---	---	---	19	---	---	---	---
09363500	---	---	---	---	---	---	---	---	---	---	---	---	3	---	---	29	9	43	---	17	---	---	---	---	---
09366500	---	---	---	---	---	---	---	---	---	---	11	---	---	---	---	12	---	---	---	---	10	4	---	---	---
09370800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	23	---	---	---	---
09371000	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	11	1	---	---	---	---	---	---	---	---
09372000	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	8	---	---	---	---	12	5	11	---	2

[1]All or part of this count is from 1932-48 inclusive.

4. Biological constituents include periphyton biomass, phytoplankton cell counts, and taxonomic identifications. Total coliform, fecal coliform, and fecal streptococcal bacteria also have been determined at selected sites.

5. Radiochemicals routinely determined include gross alpha and gross beta radiation. Radium-226, strontium-90, and uranium also have been determined at selected sites.

The various periods shown in table 2 were selected to illustrate major changes in emphasis in water-quality programs. The 1949-60 period represents the beginning of the data-collection program at most sites and was the time of the "traditional" major-constituent analysis. A few trace constituents, such as iron and manganese, also were determined routinely during this period. Large program expansion and several significant methodology changes occurred during 1961-65 and 1966-69, including the beginning of accurate and routine analyses of trace constituents during 1966-69. The 1970-73 period marked the beginning of selected routine biological, organic, and radiochemical determinations as awareness of environmental quality increased. During 1974-78, the number of sites and the types of constituents determined increased greatly as a result of the national emphasis on energy development.

STATISTICAL SUMMARIES OF WATER-QUALITY DATA

Data needed to adequately define the natural water-quality characteristics of a stream must include data obtained throughout the year at various flow regimes. Generally, about 2 years of monthly analyses of major chemical constituents are sufficient to define the major water-quality characteristics of a stream at a specific site. Consequently, statistical summaries of water-quality data were made only for those sites where 20 or more monthly analyses of major chemical constituents were available.

Statistical summaries of major chemical constituents, streamflow, pH, specific conductance, water temperature, dissolved oxygen, and selected trace or minor elements were prepared for 117 sites; the summaries are presented in the Statistical Summaries section at the end of this report. The summaries include: (1) The number of measurements or determinations of each constituent; (2) the maximum, minimum, and mean values; and (3) the standard deviation from the mean. In addition, linear-regression summaries relating major chemical constituents to specific conductance are included for those constituents which are significantly correlated with specific conductance at the 95 percent confidence level. The regression coefficient (R), the intercept or constant (B), the correlation coefficient, and the standard error of estimate are shown. The linear-regression equation relating specific conductance to constituent concentration is usually expressed as:

Constituent concentration (mg/L)=specific conductance (Micromhos/cm)XR+B.

Abbreviated duration tables of specific conductance also were prepared for those sites for which daily-mean specific conductance values were available.

The number of streamflow measurements and the number of values of specific conductance, pH, and water temperature presented in the statistical summaries may be greater than the number of samples collected for some sites because: (1) In recent years, specific conductance and water temperature were measured each time a stream-discharge measurement was made, even though samples for water-quality analysis were not collected, and (2) when streamside and laboratory measurements of specific conductance and pH were made, both were stored in WATSTORE. Also, the number of determinations for an individual constituent may be less than the total number of samples for the site because some individual constituents may not have been determined on a particular sample. The sample size used for the regression analysis may be less than the number of analyses for that constituent in the WATSTORE file. The reason for this is that only those analyses having the constituent and a matching specific conductance values are used in the regression analysis.

Several types of available data were not included in the summaries for the following reasons: Continuous and once-daily water-temperature data will be included in another report; pesticide, radiochemical, and sediment data are too few at the present (1978) to be statistically analyzed; and the types of biological data available are not amenable to this type of statistical analysis. The availability of these data can be determined by use of table 2.

Factors Affecting Interpretation of Statistical Summaries

Changes in data-collection techniques, analytical methods, or variations in reporting constituent values need to be considered when interpreting the statistical summaries. The following sections describe the factors affecting interpretation of the data contained in the statistical summaries.

Streamflow Data

A stream-discharge value is needed for each sample collected in order to compute constituent loads and to relate constituent loads to various types of discharge, such as base or flood flows. Two types of streamflow data are included in the statistical summaries: MEAN DISCHARGE, which is the mean streamflow for the day (daily-mean discharge); and STREAMFLOW, which is the discharge at approximately the same time the sample was collected (instantaneous discharge).

Daily-mean discharges are shown for those sites where data for composite samples are available or for sites where instantaneous-discharge measurements were not made. Composite samples, which were discontinued in 1969, usually consisted of combining several once-daily samples and analyzing the combined samples as a single sample. The analytical results of composite samples were considered to represent the water-quality characteristics of the stream for the total number of days during which the individual samples comprising the composite sample were collected. Therefore, a computed daily-mean discharge for the appropriate number of days was needed for interpretation of the data. Instantaneous discharges are available for most sites that have been operated since 1970.

The statistics for the two types of streamflow data for any particular site included in the summaries may vary significantly, primarily because the periods for which the values are reported usually were not identical. Also, the statistical values for streamflow are for the period and frequency of the water-quality record and not for the period and frequency of the streamflow record.

Specific Conductance and pH

In current (1978) programs, both specific conductance and pH are measured at the time a sample is collected whereas previously most of these determinations were made in the laboratory. Because large changes in specific conductance and pH occasionally can occur between the time of sample collection and the time of laboratory analysis, measurements made at the time of sample collection should be more representative of water in the stream. Laboratory values of specific conductance for the previously discussed composite samples sometimes are of limited worth in accurately portraying the actual specific conductance of the stream, however, the relations between major constituents and specific conductance determined in the laboratory are valid. No distinction between streamside and laboratory values is made for specific conductance or pH data included in the statistical summaries.

Nitrogen Constituents

The inclusion of similar nitrogen constituents represents a methodology change. Prior to late 1970, only nitrate concentrations were determined. Since late 1970, only determinations of nitrite plus nitrate have been made.

Dissolved Solids

Two values for dissolved-solids concentrations have been included in the statistical summaries. DISSOLVED SOLIDS, ROE 180 DEG C is a laboratory determination whereas DISSOLVED SOLIDS, SUM OF CONST is the arithmetic total of the major constituents determined. Only small differences between the two generally occur for most samples for which both values are available. However, significant differences in the extreme values occur for several sites. The most common reasons for the differences are that fewer laboratory determinations generally are available for a particular site and that arithmetic totals generally were computed only when dissolved solids were in excess of 1,000 mg/L.

Correlations Between Specific Conductance and Major Chemical Constituents

Values of specific conductance commonly are significantly correlated with concentrations of some of the major chemical constituents. For example, correlation coefficients of 0.85 or greater were obtained for dissolved solids at 84 percent of the 117 sites, for total hardness at 78 percent of the sites, for dissolved sodium at 73 percent of the sites, and for dissolved sulfate at 68 percent of the sites. In contrast, correlation coefficients of 0.85 or greater were obtained for silica at only 3 percent of the sites, and for fluoride at only 2 percent of the sites. However, this was not unexpected because silica does not contribute to specific conductance and fluoride concentrations generally are insignificant compared to concentrations of other major constituents.

In addition to the regression summaries presented in the statistical summaries, the observed concentrations of selected major constituents and concentrations predicted from linear analysis were plotted against specific conductance for each of the 117 sites. Examples of these plots for the Eagle River at Gypsum, Colo., are shown in figures 1 through 9. Similar plots for each of the other sites are available from the Colorado District of the U.S. Geological Survey. The example plots have been included to illustrate the relation between specific conductance and the observed and predicted concentrations of dissolved constituents.

EVALUATION OF WATER-QUALITY PROGRAMS

The tabulations of available water-quality data, statistical summaries, and linear-regression plots presented in this report were used to make the following evaluations of the water-quality programs in the State:

1. Changes in the frequency of collection of water-quality data and in the types of constituents determined can be made at many active sites in the State without adversely affecting the data-collection programs.

2. Data for major chemical constituents have been essential in the past; in some areas, frequent determinations of these constituents may continue to be needed to determine whether significant changes in water quality occur. However, because concentrations of some constituents in water from many locations can be estimated from specific conductance, program emphasis could change.

3. The majority of sites for which trace constituent data are available are located in the potential energy-producing areas. Trace constituent data are needed at many other sites throughout the State to more adequately define the water-quality characteristics of major streams.

4. Few determinations of total (dissolved plus suspended) concentrations of trace constituents, that is, concentrations in a water-sediment mixture, and almost no determinations of trace constituents in bottom material are available. Before questions concerning transport of trace constituents in a particular stream can be answered, much additional information concerning these phases is required, even at sites where data for dissolved trace constituents are available.

5. Additional nutrient data need to be obtained at most sites because data for the various nitrogen and phosphorus species are needed to evaluate the waste-assimilative capacities of streams. Because of manpower and economic constraints, most nutrient data collected in the past were either nitrate or nitrite plus nitrate concentrations. Information on the entire nitrogen and phosphorus cycles is required for comprehensive evaluations of these elements.

SELECTED REFERENCES

American Public Health Association, American Water Works Association, and Water Pollution Control Federation, 1976, Standard methods for the examination of water and wastewater, including bottom sediment and sludges (14th ed.): Washington, D.C., American Public Health Association, Inc., 1193 p.

Barr, A. J., Goodnight, J. H., Sall, J. P., and Helwig, J. T., 1976, A user's guide to SAS 76: Raleigh, N. C., SAS Institute, Inc., 329 p.

Brennan, R. B., and Grozier, R. U., 1976, Salt-load computations--Colorado River; Cameo, Colorado, to Cisco, Utah, Part 1, Data summary: U.S. Geological Survey Open-File Report, 15 p.

Colorado Department of Health, Water Quality Control Division, 1977, Primary drinking water regulations for the State of Colorado: Denver, Colorado Department of Health, 60 p.

Skougstad, M. W., Fishman, M. J., Friedman, L. C., Erdmann, D. E., and Duncan, S. S., eds., 1979, Methods for determination of inorganic substances in water and fluvial sediments: U.S. Geological Survey Techniques Water-Resources Investigations, Book 5, Chapter A1, 626 p.

U.S. Environmental Protection Agency, 1976, National interim primary drinking water regulations: U.S. Environmental Protection Agency, 570/9-76-003, 159 p.

_____ 1977, National secondary drinking water regulations: Federal Register, v. 42, no. 62, Thursday, March 31, 1977, Part I, p. 17143-17147.

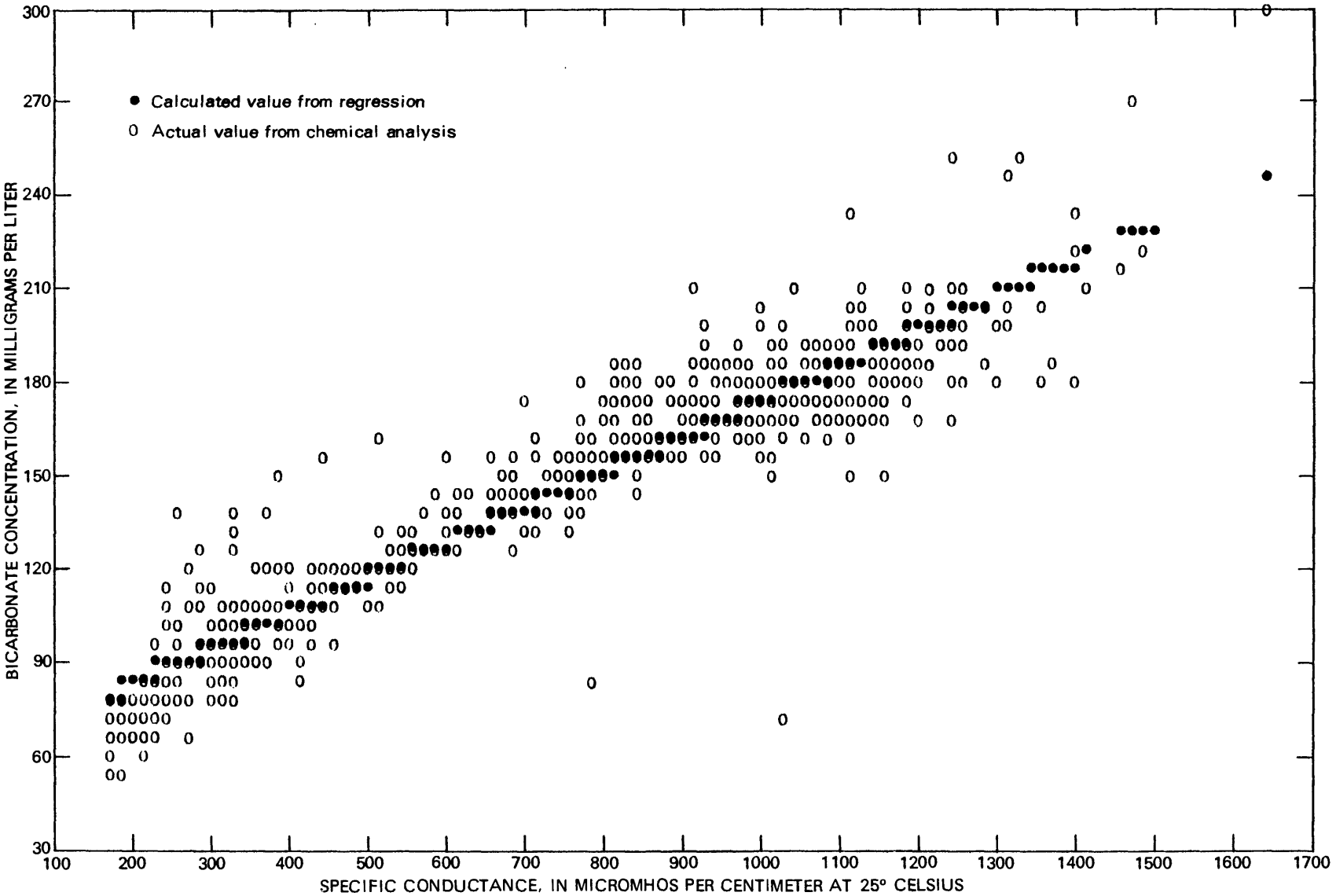

Figure 1.—Linear-regression analyses, specific conductance and bicarbonate, Eagle River at Gypsum, Colo.

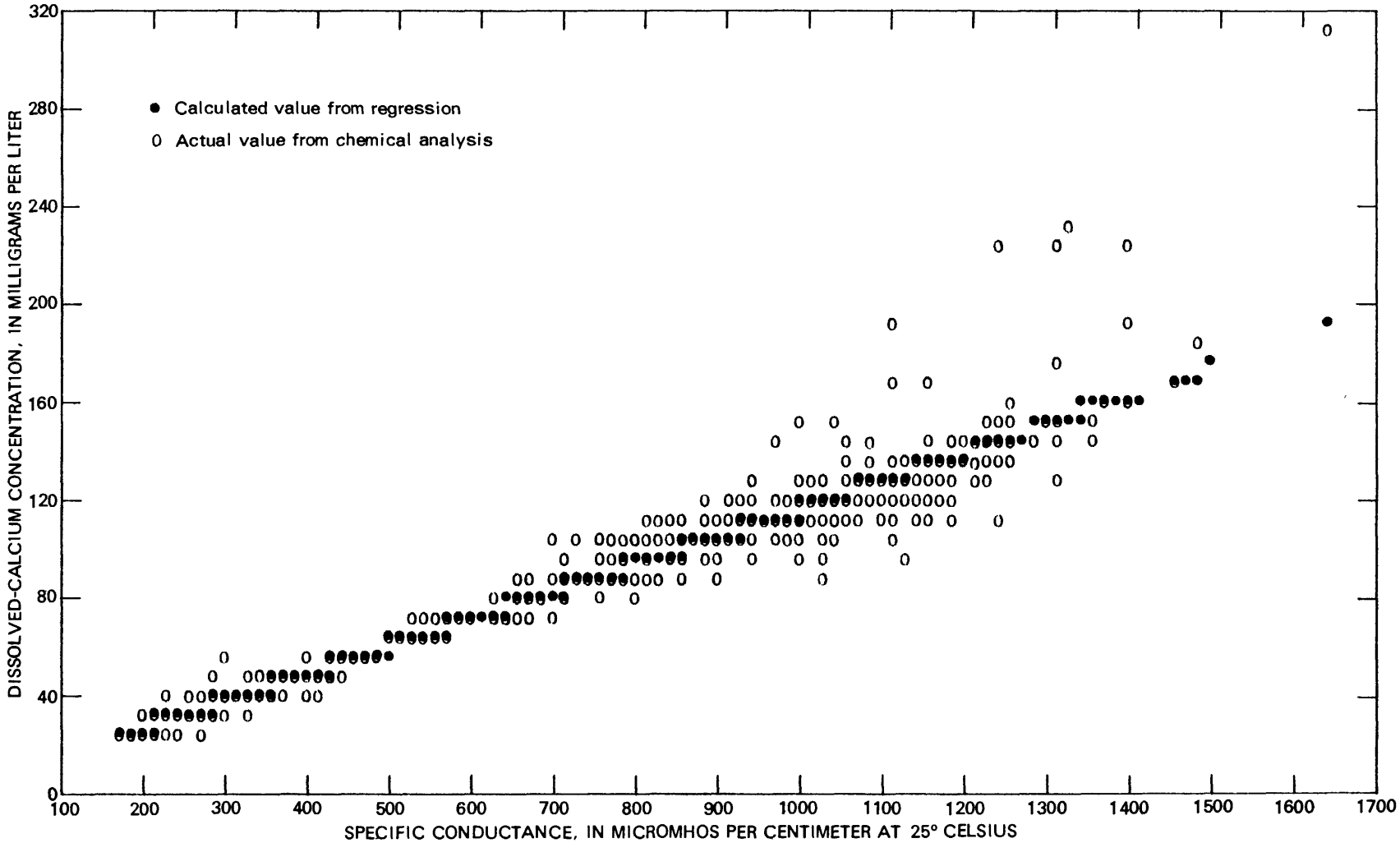

Figure 2.--Linear-regression analyses, specific conductance and dissolved calcium, Eagle River at Gypsum, Colo.

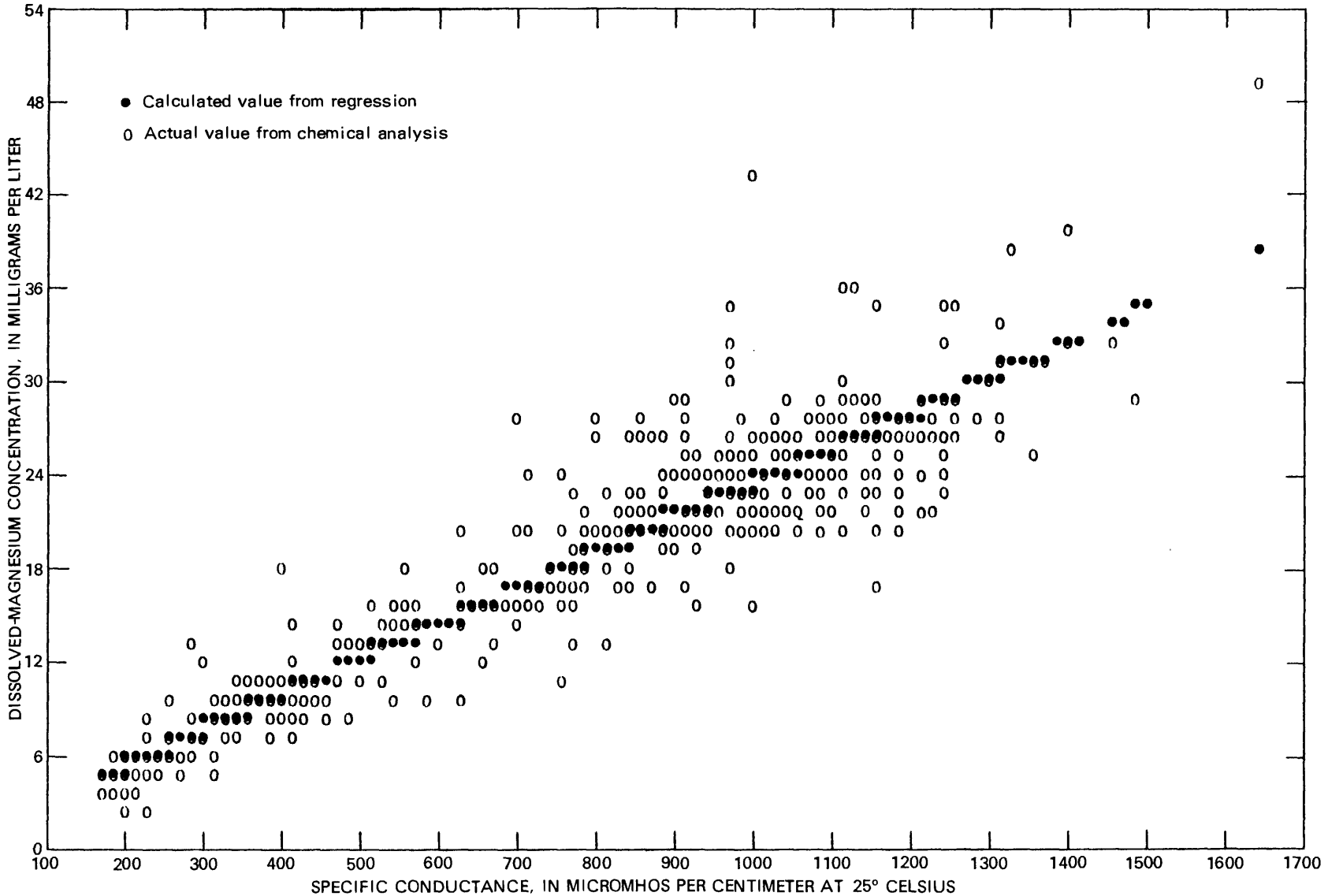

Figure 3.--Linear-regression analyses, specific conductance and dissolved magnesium, Eagle River at Gypsum, Colo.

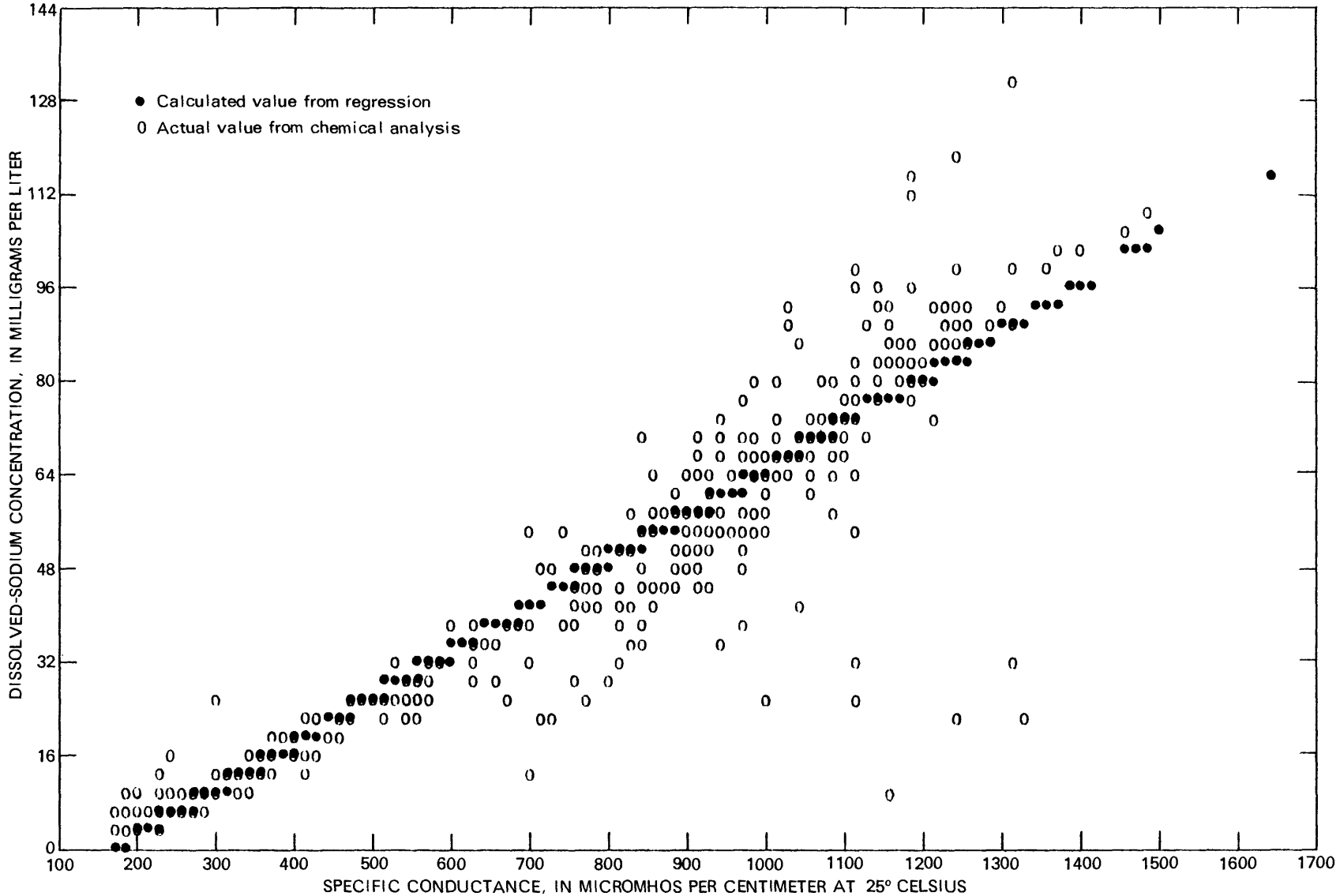

Figure 4.--Linear-regression analyses, specific conductance and dissolved sodium, Eagle River at Gypsum, Colo.

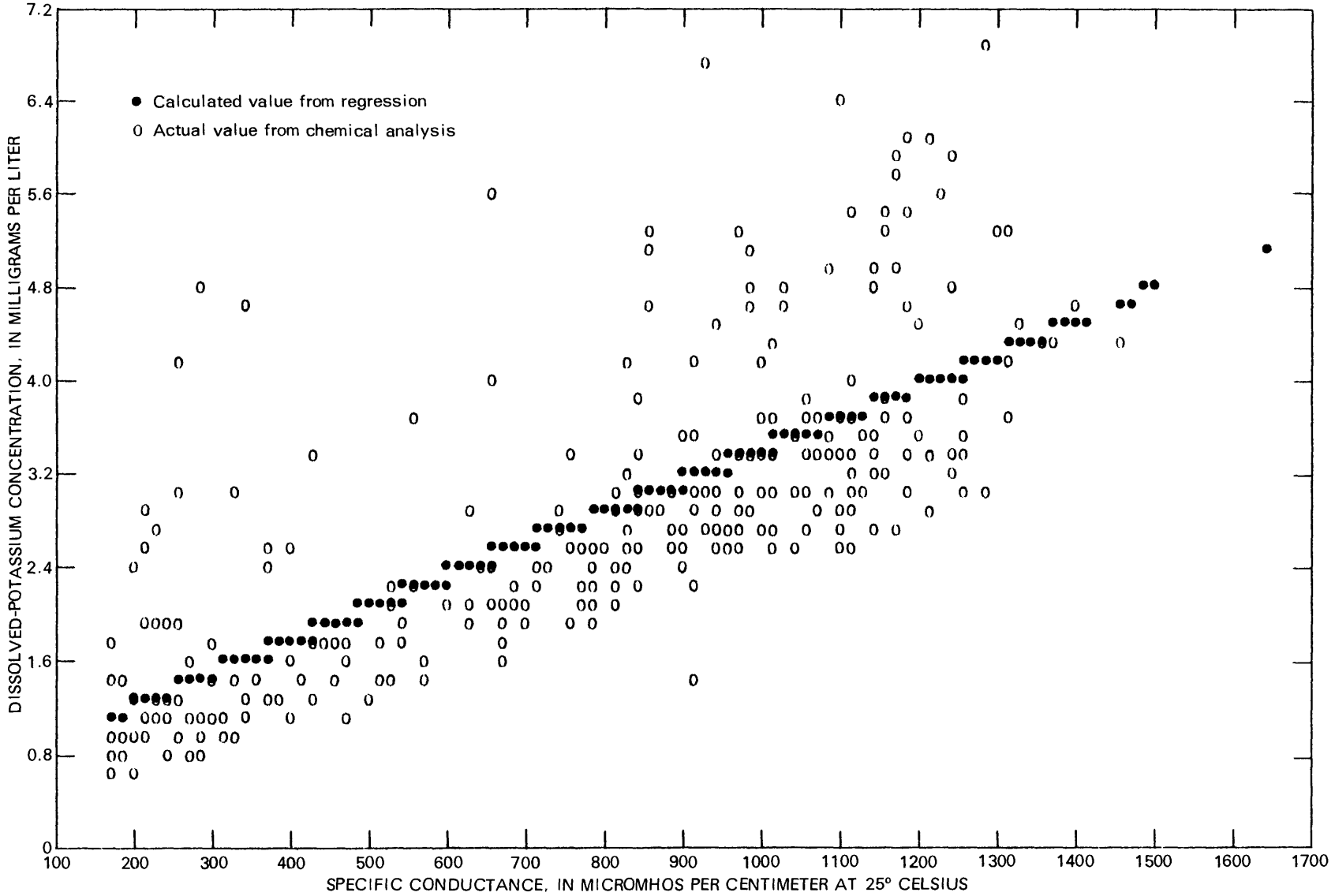

Figure 5.--Linear-regression analyses, specific conductance and dissolved potassium, Eagle River at Gypsum, Colo.

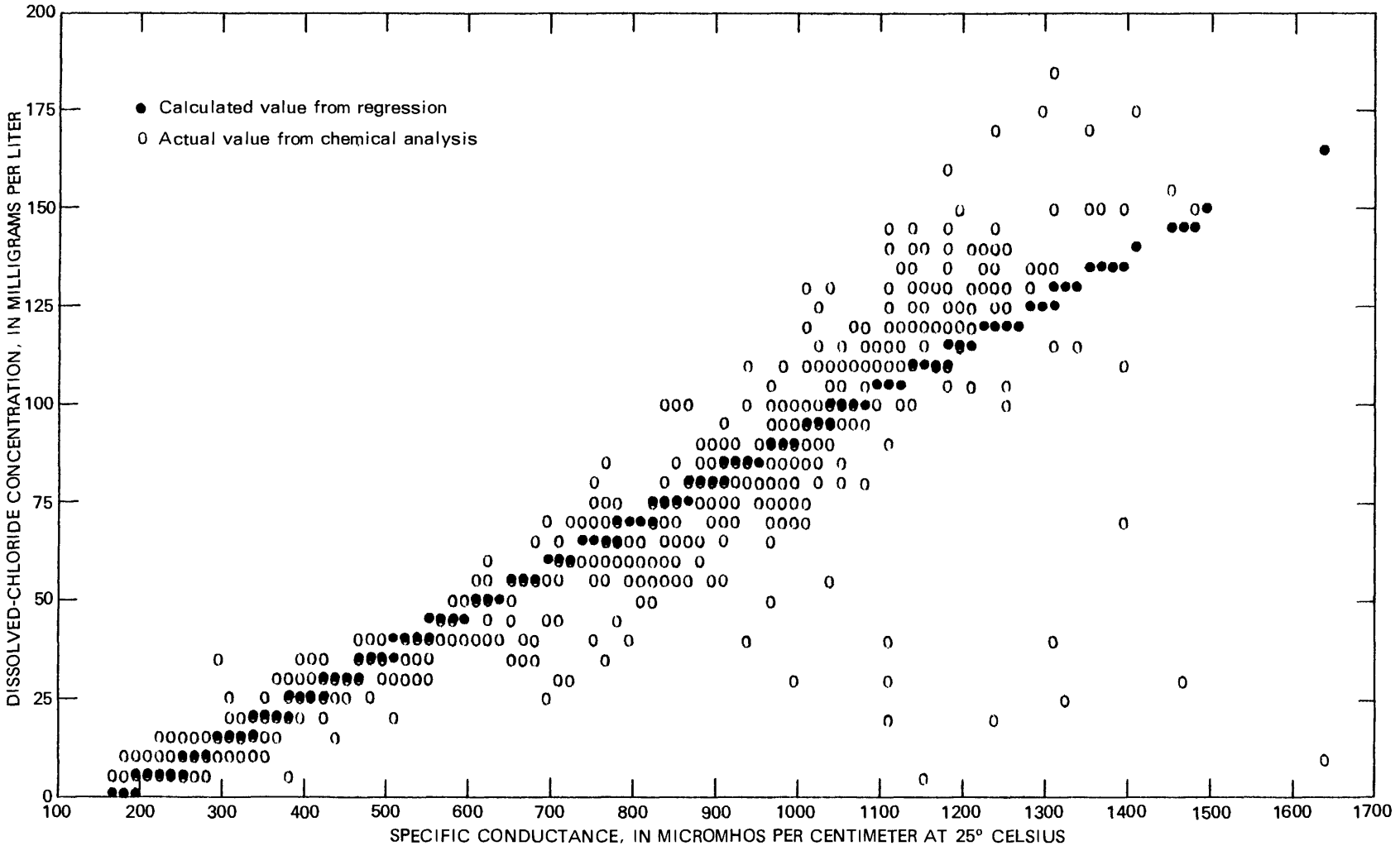

Figure 6.--Linear-regression analyses, specific conductance and dissolved chloride, Eagle River at Gypsum, Colo.

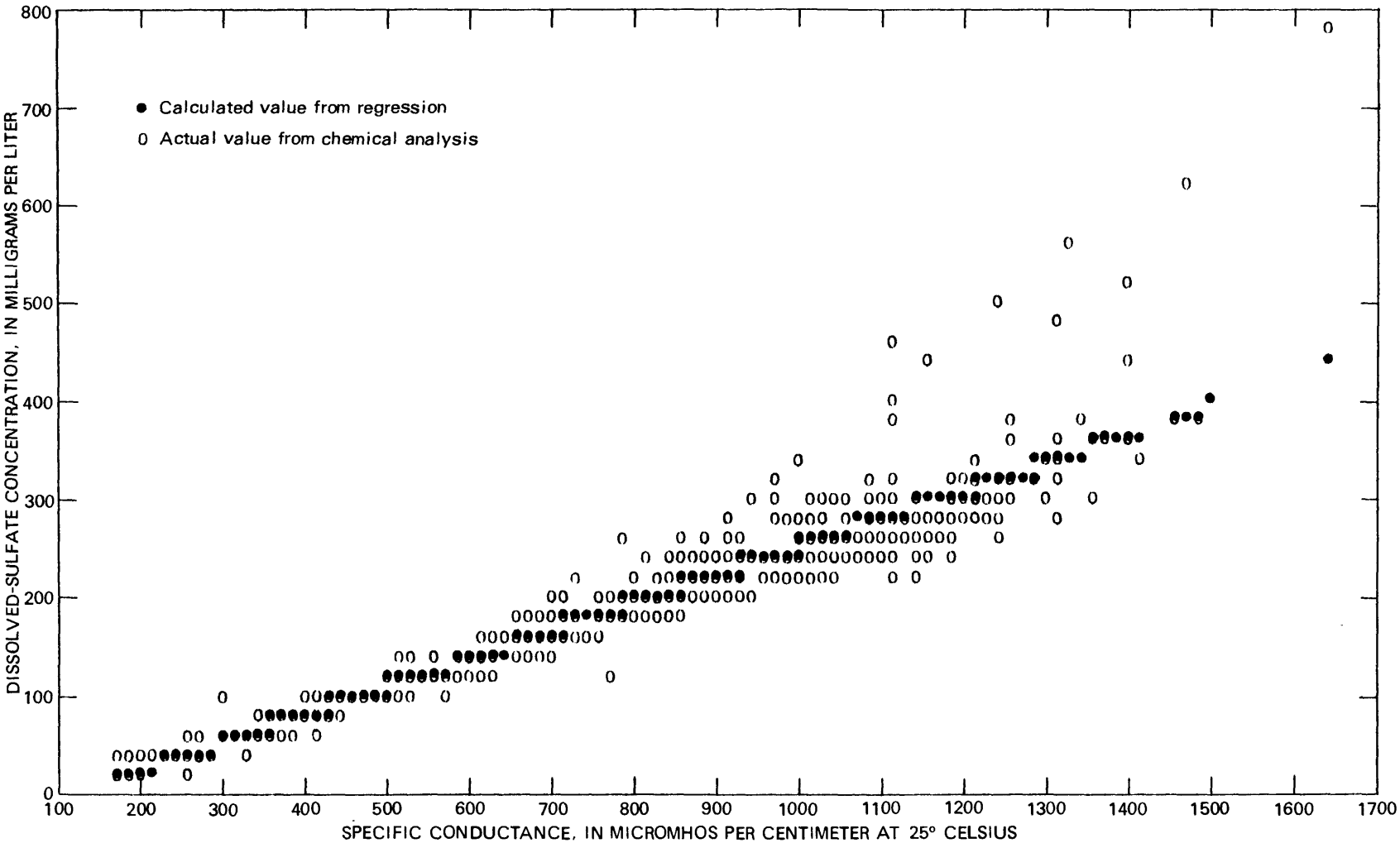

Figure 7.--Linear-regression analyses, specific conductance and dissolved sulfate, Eagle River at Gypsum, Colo.

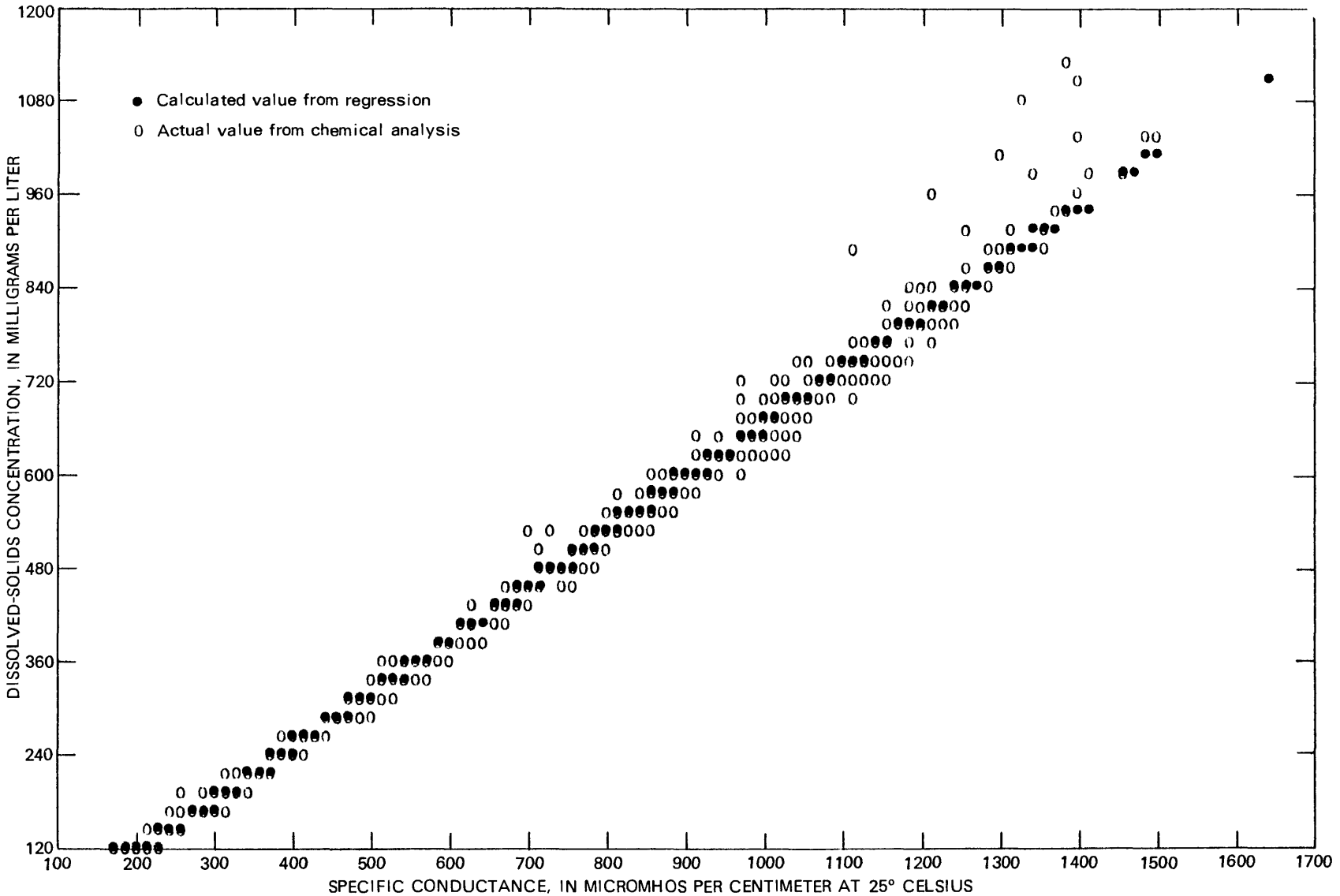

Figure 8.--Linear-regression analyses, specific conductance and dissolved solids, residue at 180° Celsius, Eagle River at Gypsum, Colo.

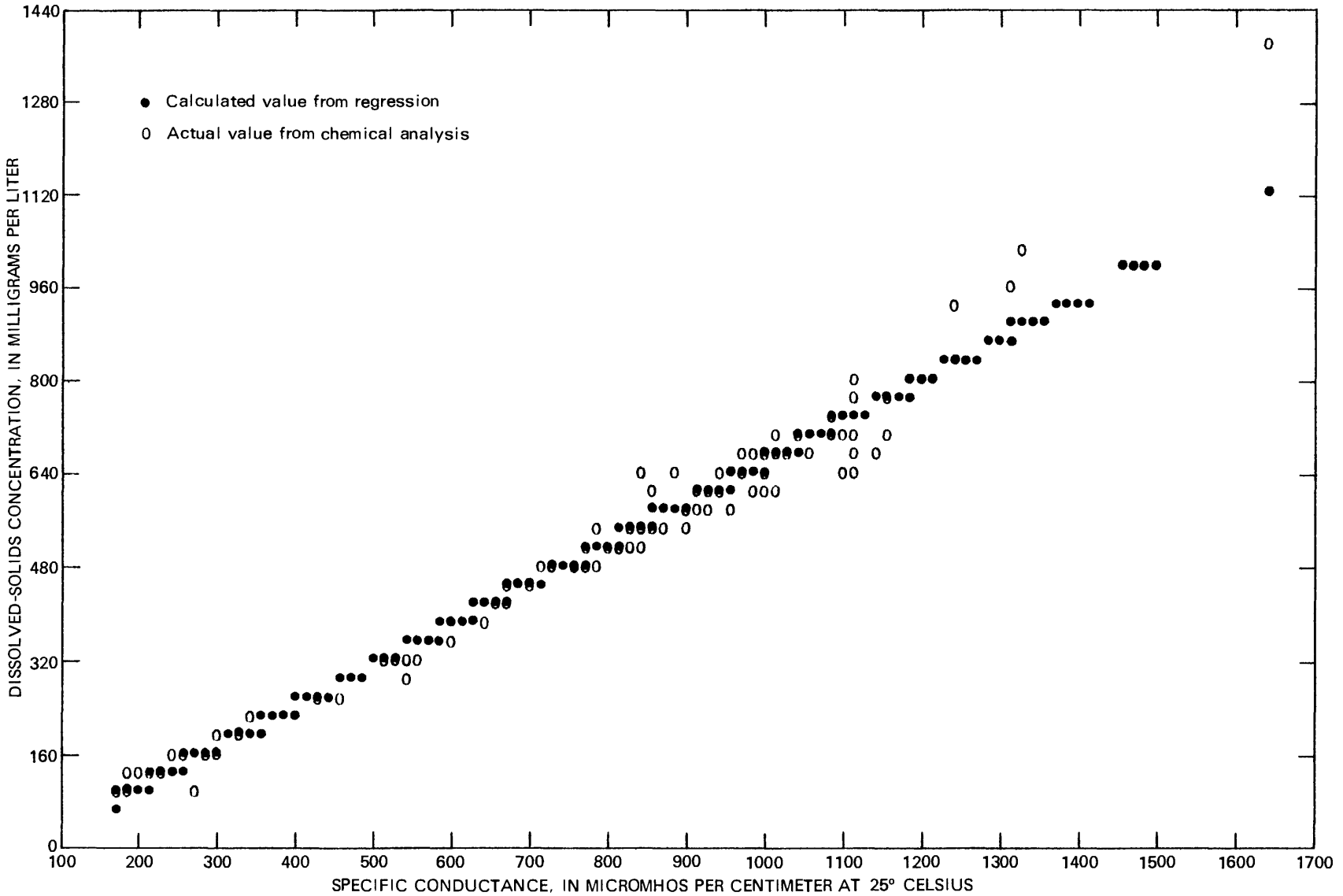

Figure 9.--Linear-regression analyses, specific conductance and dissolved solids, sum of constituents, Eagle River at Gypsum, Colo.

STATISTICAL SUMMARIES FOR 117 SITES

STATISTICAL SUMMARY OF WATER QUALITY DATA
STATION NUMBER: 06620000 NAME: NORTH PLATTE RIVER NEAR NORTHGATE, CO.

LAT 40 56'10" LONG 106 20'21" DRAINAGE AREA: 1431 SQ MI (3706.29 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	156	6.88	6.79	0.00	23.00					
STREAMFLOW, MEAN DAILY, (CFS)	105	465.34	544.68	54.00	2440.00					
STREAMFLOW (CUBIC FT/SEC)	65	374.80	537.68	25.00	2880.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	150	274.63	48.41	160.00	440.00					
OXYGEN, DISSOLVED	60	8.89	1.43	6.70	12.80					
PH (STANDARD UNITS)	128			6.80	8.40					
BICARBONATE ION	162	136.93	29.54	79.00	320.00	130	0.44090	10.98453	0.8706	11.21440
HARDNESS, TOTAL	162	111.96	24.17	66.00	260.00	130	0.39630	-0.23307	0.9203	7.58081
CALCIUM, DISSOLVED	162	31.36	6.35	19.00	72.00	130	0.08711	6.65468	0.7587	3.36632
MAGNESIUM, DISSOLVED	162	8.17	2.78	2.80	19.00	130	0.04374	-4.18820	0.7330	1.82663
SODIUM, DISSOLVED	162	15.55	4.34	7.70	31.00	130	0.06632	-3.42865	0.8340	1.97505
POTASSIUM, DISSOLVED	162	2.15	0.87	0.10	5.80	130	0.00413	0.96783	0.2099	0.86700
CHLORIDE, DISSOLVED	162	3.47	2.28	0.00	15.00	130	0.01164	0.17948	0.2223	2.29741
SULFATE, DISSOLVED	162	27.41	9.90	8.20	66.00	130	0.14222	-12.35792	0.6600	7.28585
SILICA, DISSOLVED	162	11.15	3.59	0.10	33.00	130	0.01772	6.24340	0.2813	2.72121
BORON, DISSOLVED, UG/L	102	43.14	37.73	0.00	280.00					
DISSOLVED SOLIDS, ROE 180 DEG C	101	172.75	30.18	110.00	264.00	101	0.60826	3.35484	0.9311	11.06266
DISSOLVED SOLIDS, SUM OF CONST	126	166.38	34.97	91.00	376.00	94	0.56500	6.97266	0.9628	6.82668

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 349

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	474	416	392	318	271	252	241	233	226

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				21	80.00	470.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06714200 NAME: BURLINGTON DITCH BELOW HEADGATE AT DENVER, CO.

LAT 39 48'02" LONG 104 57'32"

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	24	14.04	5.62	1.11	26.00					
STREAMFLOW, MEAN DAILY, (CFS)	58	124.34	153.06	4.40	816.00					
STREAMFLOW (CUBIC FT/SEC)	2	123.50	146.37	20.00	227.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	62	977.63	290.81	258.00	1640.00					
PH (STANDARD UNITS)	62			6.80	7.90					
BICARBONATE ION	62	276.50	125.38	68.00	598.00	62	0.34568	-61.44937	0.8018	75.54502
HARDNESS, TOTAL	62	233.37	51.11	82.00	340.00	62	0.13364	102.72398	0.7604	33.46440
CALCIUM, DISSOLVED	62	65.53	15.40	26.00	103.00	62	0.03284	33.42792	0.6202	12.17791
MAGNESIUM, DISSOLVED	62	17.05	5.48	4.40	29.00	62	0.01246	4.87515	0.6611	4.14508
SODIUM, DISSOLVED	62	108.08	43.20	20.00	218.00	62	0.14390	-32.59806	0.9686	10.83332
POTASSIUM, DISSOLVED	62	7.64	3.06	1.60	15.00	62	0.00912	-1.27621	0.8672	1.53519
CHLORIDE, DISSOLVED	60	100.12	46.50	16.00	230.00	60	0.14800	-44.13976	0.9267	17.62243
SULFATE, DISSOLVED	61	111.77	44.01	0.80	220.00					
SILICA, DISSOLVED	62	14.20	2.59	8.50	19.00	62	0.00587	8.46639	0.6580	1.96914
BORON, DISSOLVED, UG/L	62	286.45	134.70	40.00	690.00					
DISSOLVED SOLIDS, ROE 180 DEG C	62	576.32	156.98	164.00	968.00	62	0.52470	63.35522	0.9721	37.16014

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06720500 NAME: SOUTH PLATTE RIVER AT HENDERSON, CO.

LAT 39 55'19" LONG 104 52'00" DRAINAGE AREA: 4713 SQ MI (12206.7 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	153	13.59	6.12	1.11	28.00					
STREAMFLOW, MEAN DAILY, (CFS)	171	504.85	859.15	21.00	6750.00					
STREAMFLOW (CUBIC FT/SEC)	79	359.83	570.67	18.70	2976.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	255	963.94	319.08	225.00	1470.00					
OXYGEN, DISSOLVED	43	6.54	1.39	4.20	10.00					
PH (STANDARD UNITS)	253			6.40	8.50					
BICARBONATE ION	194	225.35	91.18	49.00	636.00	193	0.24709	-11.96358	0.8666	45.68575
NITRITE + NITRATE, DISSOLVED AS N	19	2.80	2.80	0.00	10.00					
ORTHOPHOSPHATE, DISSOLVED AS P	16	3.32	2.49	0.12	7.90					
HARDNESS, TOTAL	215	253.41	79.87	64.00	450.00	214	0.23520	25.73232	0.9320	28.97413
CALCIUM, DISSOLVED	215	72.75	23.80	18.00	135.00	214	0.06806	6.85742	0.9053	10.11511
MAGNESIUM, DISSOLVED	215	17.48	6.03	4.60	34.00	214	0.01632	1.69445	0.8556	3.12738
SODIUM, DISSOLVED	194	102.71	38.61	17.00	185.00	193	0.12000	-13.46574	0.9810	7.51612
POTASSIUM, DISSOLVED	182	7.38	2.68	1.50	14.00	181	0.00674	0.80100	0.8015	1.60836
CHLORIDE, DISSOLVED	215	85.05	37.21	2.00	198.00	214	0.10459	-15.96074	0.8864	17.30901
SULFATE, DISSOLVED	194	162.65	62.04	43.00	305.00	193	0.16167	7.14423	0.8363	34.03206
SILICA, DISSOLVED	193	15.60	3.21	6.20	28.00	192	0.00627	9.52441	0.6180	2.53168
BORON, DISSOLVED, UG/L	126	202.14	174.22	0.06	560.00					
DISSOLVED SOLIDS, ROE 180 DEG C	178	607.25	202.11	147.00	980.00	177	0.62786	3.59501	0.9868	32.91161
DISSOLVED SOLIDS, SUM OF CONST	117	580.74	213.28	143.00	924.00	116	0.65525	-17.13328	0.9772	45.52433

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 736

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1560	1330	1300	1240	1130	988	850	729	551

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				9	0.00	30.00
CADMIUM(CD), UG/L				9	0.00	2.00
COPPER (CU), UG/L				1	4.00	4.00
IRON (FE), UG/L				76	0.00	400.00
LEAD (PB), UG/L				2	2.00	14.00
MANGANESE (MN), UG/L				52	0.00	900.00
SELENIUM (SE), UG/L				5	0.00	10.00
ZINC (ZN), UG/L				2	30.00	39.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06722000 NAME: N ST. VRAIN CREEK AT LONGMONT DAM, NR LYONS, CO.

LAT 40 13'19" LONG 105 21'29" DRAINAGE AREA: 106.001 SQ MI (274.543 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, A	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	108	7.58	4.45	0.00	17.50					
STREAMFLOW (CUBIC FT/SEC)	2	77.00	94.75	10.00	144.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	79	27.88	9.05	18.00	73.00					
OXYGEN, DISSOLVED	84	9.50	1.02	7.60	11.40					
PH (STANDARD UNITS)	106			5.40	8.60					
BICARBONATE ION	83	12.19	2.73	6.00	19.00	77	0.15697	7.85013	0.4900	2.47678
NITRITE + NITRATE, DISSOLVED AS N	83	0.06	0.06	0.00	0.45					
ORTHOPHOSPHATE, DISSOLVED AS P	83	0.01	0.01	0.00	0.08					
HARDNESS, TOTAL	83	10.94	2.94	7.00	26.00	77	0.24931	3.86063	0.7661	1.85517
CALCIUM, DISSOLVED	83	3.30	0.76	2.00	5.80	77	0.05113	1.83969	0.6417	0.54196
MAGNESIUM, DISSOLVED	83	0.66	0.36	0.10	2.90	77	0.02987	-0.18528	0.7522	0.23208
SODIUM, DISSOLVED	83	1.89	0.61	1.00	4.00	77	0.03923	0.78244	0.5797	0.48904
POTASSIUM, DISSOLVED	83	0.40	0.16	0.00	1.00					
CHLORIDE, DISSOLVED	83	0.72	0.36	0.10	1.70	77	0.01053	0.41073	0.2631	0.34246
SULFATE, DISSOLVED	82	4.09	2.21	1.50	16.00	76	0.15074	-0.11216	0.6113	1.73930
SILICA, DISSOLVED	83	5.41	1.30	2.60	10.00					
DISSOLVED SOLIDS, SUM OF CONST	82	23.09	4.72	15.00	45.00	76	0.37541	12.40748	0.7119	3.30075

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				83	30.00	270.00
MANGANESE (MN), UG/L				83	0.00	160.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06723400 NAME: SOUTH ST. VRAIN CREEK ABOVE LYONS, CO.

LAT 40 12'40" LONG 105 16'47" DRAINAGE AREA: 81.401 SQ MI (210.829 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	108	8.75	6.09	0.00	20.00					
STREAMFLOW (CUBIC FT/SEC)	23	41.58	51.96	4.30	182.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	102	59.84	16.23	25.00	90.00					
OXYGEN, DISSOLVED	82	9.60	1.39	7.10	12.10					
PH (STANDARD UNITS)	105			5.60	8.80					
BICARBONATE ION	84	26.69	7.34	11.00	41.00	83	0.37323	5.24347	0.8505	3.83802
NITRITE + NITRATE, DISSOLVED AS N	84	0.13	0.13	0.00	0.80					
ORTHOPHOSPHATE, DISSOLVED AS P	83	0.01	0.02	0.00	0.12					
HARDNESS, TOTAL	83	23.22	5.75	12.00	38.00	82	0.32583	4.33754	0.9295	2.13267
CALCIUM, DISSOLVED	84	6.83	1.60	3.70	11.00	83	0.08610	1.86760	0.8921	0.72530
MAGNESIUM, DISSOLVED	83	1.46	0.50	0.40	2.60	82	0.02800	-0.16558	0.9065	0.21509
SODIUM, DISSOLVED	84	3.07	1.17	0.80	6.00	83	0.06001	-0.38842	0.8431	0.63640
POTASSIUM, DISSOLVED	84	0.55	0.18	0.20	1.10	83	0.00617	0.19477	0.5611	0.15132
CHLORIDE, DISSOLVED	84	1.10	0.66	0.00	3.30	83	0.02226	-0.18470	0.5567	0.55233
SULFATE, DISSOLVED	83	5.70	2.42	2.20	17.00	82	0.08529	0.79421	0.5800	1.99067
SILICA, DISSOLVED	84	7.68	2.10	3.10	12.00	83	0.09760	2.04311	0.7657	1.36336
DISSOLVED SOLIDS, SUM OF CONST	82	40.35	10.10	19.00	64.00	81	0.58358	6.67732	0.9501	3.15809

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				1	1.00	1.00
CADMIUM(CD), UG/L				1	3.00	3.00
COPPER (CU), UG/L				1	2.00	2.00
IRON (FE), UG/L				84	10.00	220.00
LEAD (PB), UG/L				1	6.00	6.00
MANGANESE (MN), UG/L				83	0.00	40.00
MERCURY (HG), UG/L				1	0.00	0.00
SELENIUM (SE), UG/L				1	0.00	0.00
ZINC (ZN), UG/L				1	20.00	20.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06724000 NAME: ST. VRAIN CREEK AT LYONS, CO.

LAT 40 13'05" LONG 105 15'34" DRAINAGE AREA: 212.001 SQ MI (549.083 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY			
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	93	10.39	6.27	0.00	24.00					
STREAMFLOW, MEAN DAILY, (CFS)	46	74.20	123.62	4.40	594.00					
STREAMFLOW (CUBIC FT/SEC)	37	71.17	131.20	0.90	614.00					
SPECIFIC CONDUCTANCE (MICROMHOS),	28	67.07	23.97	25.00	123.00					
OXYGEN, DISSOLVED	24	9.28	1.39	7.50	11.60					
PH (STANDARD UNITS)	27			6.80	8.10					
BICARBONATE ION	28	26.96	9.14	10.00	44.00	28	0.34026	4.14409	0.8925	4.20059
NITRITE + NITRATE, DISSOLVED AS N	26	0.23	0.21	0.03	0.88					
ORTHOPHOSPHATE, DISSOLVED AS P	26	0.08	0.13	0.00	0.63					
HARDNESS, TOTAL	28	25.29	8.35	9.00	45.00	28	0.32325	3.60636	0.9277	3.17818
CALCIUM, DISSOLVED	28	7.43	2.40	3.10	14.00	28	0.09179	1.26890	0.9156	0.98444
MAGNESIUM, DISSOLVED	28	1.65	0.65	0.40	3.10	28	0.02306	0.10725	0.8450	0.35639
SODIUM, DISSOLVED	28	3.35	1.28	1.40	5.50	28	0.04603	0.26312	0.8644	0.65408
POTASSIUM, DISSOLVED	28	0.57	0.24	0.00	1.00					
CHLORIDE, DISSOLVED	28	1.33	0.69	0.30	3.20	28	0.01881	0.06709	0.6559	0.52873
SULFATE, DISSOLVED	28	7.64	3.55	2.70	19.00	28	0.10670	0.48300	0.7214	2.50220
SILICA, DISSOLVED	28	6.74	1.64	3.60	12.00	28	0.03058	4.68824	0.4475	1.49302
DISSOLVED SOLIDS, ROE 180 DEG C	2	68.00	8.49	62.00	74.00	2	-0.39735	110.87415	-1.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	26	41.77	11.04	21.00	62.00	26	0.48418	10.81740	0.9397	3.85303

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				2	0.00	8.00
CADMIUM(CD), UG/L				2	0.00	0.00
COPPER (CU), UG/L				2	1.00	2.00
IRON (FE), UG/L				25	30.00	200.00
LEAD (PB), UG/L				2	0.00	2.00
MANGANESE (MN), UG/L				26	0.00	20.00
MERCURY (HG), UG/L				1	0.00	0.00
SELENIUM (SE), UG/L				1	0.00	0.00
ZINC (ZN), UG/L				2	0.00	10.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06724600 NAME: LEFT HAND CREEK AT ALTONA, CO.

LAT 40 07'57" LONG 105 17'24" DRAINAGE AREA: 59.001 SQ MI (152.813 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	96	7.07	5.94	0.00	20.00					
STREAMFLOW (CUBIC FT/SEC)	12	17.85	17.72	4.40	51.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	94	150.04	77.18	31.00	360.00					
OXYGEN, DISSOLVED	72	9.86	1.29	7.00	11.90					
PH (STANDARD UNITS)	95			5.60	8.30					
BICARBONATE ION	72	27.08	11.06	10.00	55.00	71	0.10542	11.94032	0.7388	7.50749
NITRITE + NITRATE, DISSOLVED AS N	72	0.14	0.11	0.00	0.46					
ORTHOPHOSPHATE, DISSOLVED AS P	72	0.08	0.33	0.00	2.20					
HARDNESS, TOTAL	72	53.72	27.40	15.00	140.00	71	0.34498	4.00682	0.9747	6.17376
CALCIUM, DISSOLVED	72	15.03	7.32	4.40	36.00	71	0.09223	1.74338	0.9755	1.62458
MAGNESIUM, DISSOLVED	72	3.92	2.19	0.90	11.00	71	0.02732	-0.01775	0.9631	0.59620
SODIUM, DISSOLVED	72	6.46	4.21	1.30	21.00	71	0.04914	-0.61229	0.9032	1.82348
POTASSIUM, DISSOLVED	72	1.03	0.44	0.40	2.20	71	0.00420	0.42842	0.7374	0.30040
CHLORIDE, DISSOLVED	71	1.26	0.67	0.20	3.20	70	0.00565	0.44263	0.6491	0.51564
SULFATE, DISSOLVED	72	40.91	27.32	6.40	130.00	71	0.34078	-8.12254	0.9681	6.88100
SILICA, DISSOLVED	72	9.12	2.99	3.60	17.00	71	0.03069	4.67461	0.7907	1.85512
DISSOLVED SOLIDS, SUM OF CONST	71	94.34	48.24	26.00	233.00	70	0.61478	5.06268	0.9861	8.06527

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				71	0.00	350.00
MANGANESE (MN), UG/L				71	0.00	170.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06725000 NAME: LEFT HAND CREEK AT MOUTH, AT LONGMONT, CO.

LAT 40 08'50" LONG 105 06'05" DRAINAGE AREA: 72.001 SQ MI (186.483 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	30	11.88	6.55	1.00	25.00					
STREAMFLOW (CUBIC FT/SEC)	20	4.05	2.28	2.00	13.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	24	1481.04	327.29	400.00	1820.00					
OXYGEN, DISSOLVED 300	24	10.39	1.98	6.60	13.50					
PH (STANDARD UNITS)	24			7.70	8.50					
BICARBONATE ION	22	336.18	84.79	84.00	430.00	22	0.23581	-15.86556	0.9365	30.47164
NITRITE + NITRATE, DISSOLVED AS N	22	1.85	0.58	0.32	2.90					
ORTHOPHOSPHATE, DISSOLVED AS P	23	0.04	0.12	0.00	0.60					
HARDNESS, TOTAL	23	640.43	152.93	160.00	790.00	23	0.45150	-27.88800	0.9879	24.23609
CALCIUM, DISSOLVED	23	129.00	29.61	36.00	160.00	23	0.08754	-0.58168	0.9892	4.45049
MAGNESIUM, DISSOLVED	23	76.65	20.35	16.00	96.00	23	0.05609	-6.36960	0.9221	8.05951
SODIUM, DISSOLVED	23	108.74	29.28	19.00	150.00	23	0.08561	-17.97701	0.9783	6.21089
POTASSIUM, DISSOLVED	23	3.35	1.18	1.90	7.40					
CHLORIDE, DISSOLVED	23	9.93	2.55	2.70	15.00	23	0.00634	0.54533	0.8324	1.44556
SULFATE, DISSOLVED	23	542.61	135.02	110.00	750.00	23	0.39507	-42.18192	0.9791	28.08666
SILICA, DISSOLVED	23	10.40	1.48	8.10	14.00					
DISSOLVED SOLIDS, SUM OF CONST	22	1063.55	254.99	238.00	1370.00	22	0.75331	-61.10819	0.9948	26.61574

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				23	10.00	150.00
MANGANESE (MN), UG/L				23	30.00	380.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06725450 NAME: ST. VRAIN CREEK BELOW LONGMONT, CO.

LAT 40 09'29" LONG 105 00'53" DRAINAGE AREA: 424.001 SQ MI (1098.16 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	37	11.51	6.76	1.00	26.00					
STREAMFLOW (CUBIC FT/SEC)	32	70.59	77.06	24.00	438.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	24	1457.92	291.99	360.00	1900.00					
OXYGEN, DISSOLVED	23	8.73	1.90	5.40	13.20					
PH (STANDARD UNITS)	24			7.60	8.60					
BICARBONATE ION	24	280.21	60.98	68.00	364.00	24	0.15796	49.91451	0.7563	40.79324
NITRITE + NITRATE, DISSOLVED AS N	24	2.37	0.69	0.50	3.70					
ORTHOPHOSPHATE, DISSOLVED AS P	24	0.12	0.12	0.01	0.57					
HARDNESS, TOTAL	24	613.33	126.93	130.00	820.00	24	0.41579	7.14265	0.9565	37.84546
CALCIUM, DISSOLVED	24	113.75	21.45	28.00	130.00	24	0.06776	14.96862	0.9222	8.48540
MAGNESIUM, DISSOLVED	24	80.04	18.40	15.00	120.00	24	0.05966	-6.94443	0.9466	6.06807
SODIUM, DISSOLVED	24	108.25	25.44	20.00	170.00	24	0.07845	-6.11797	0.9003	11.32362
POTASSIUM, DISSOLVED	24	5.66	1.56	1.60	9.00	24	0.00428	-0.57372	0.8023	0.95003
CHLORIDE, DISSOLVED	24	19.07	6.43	5.80	36.00	24	0.01330	-0.31716	0.6040	5.24039
SULFATE, DISSOLVED	24	553.75	136.25	100.00	910.00	24	0.43202	-76.09806	0.9259	52.63999
SILICA, DISSOLVED	24	9.01	1.41	6.80	13.00					
DISSOLVED SOLIDS, SUM OF CONST	24	1039.92	223.64	214.00	1500.00	24	0.73593	-33.00878	0.9608	63.36174

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				24	10.00	720.00
MANGANESE (MN), UG/L				24	20.00	200.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06731000 NAME: ST. VRAIN CREEK AT MOUTH, NEAR PLATTEVILLE, CO.

LAT 40 15'29" LONG 104 52'45" DRAINAGE AREA: 976.001 SQ MI (2527.84 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	171	11.71	7.72	0.00	26.50					
STREAMFLOW, MEAN DAILY, (CFS)	122	217.73	246.73	40.00	1780.00					
STREAMFLOW (CUBIC FT/SEC)	58	166.77	174.17	38.40	1290.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	174	1386.81	299.46	360.00	2080.00					
OXYGEN, DISSOLVED	91	8.73	1.25	6.20	11.50					
PH (STANDARD UNITS)	173			6.80	8.70					
BICARBONATE ION	140	281.99	56.28	83.00	450.00	139	0.16192	53.26271	0.8290	31.69405
NITRITE + NITRATE, DISSOLVED AS N	97	2.57	0.99	0.01	5.00					
ORTHOPHOSPHATE, DISSOLVED AS P	97	0.40	0.44	0.00	3.10					
HARDNESS, TOTAL	138	554.52	121.65	130.00	820.00	137	0.41535	-34.80514	0.9633	32.80347
CALCIUM, DISSOLVED	138	101.04	20.15	27.00	140.00	137	0.06623	7.03583	0.9265	7.62693
MAGNESIUM, DISSOLVED	138	73.70	17.95	15.00	118.00	137	0.06067	-12.37315	0.9547	5.36138
SODIUM, DISSOLVED	134	120.34	29.28	23.00	189.00	133	0.10242	-23.98747	0.9723	6.88630
POTASSIUM, DISSOLVED	124	5.18	1.48	1.70	11.00	123	0.00204	2.30402	0.3936	1.36876
CHLORIDE, DISSOLVED	138	28.16	7.51	5.90	56.00	137	0.01783	2.83826	0.6680	5.63009
SULFATE, DISSOLVED	140	520.74	141.11	88.00	955.00	139	0.46898	-141.152	0.9596	39.90395
SILICA, DISSOLVED	136	8.65	1.76	3.00	14.00					
1020	43	270.01	74.90	0.31	420.00					
DISSOLVED SOLIDS, ROE 180 DEG C	43	1188.63	214.52	561.00	1610.00	43	0.85289	-113.697	0.9836	39.14543
DISSOLVED SOLIDS, SUM OF CONST	120	1007.46	226.83	213.00	1440.00	119	0.79916	-122.966	0.9826	42.35875

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				1	2.00	2.00
CADMIUM(CD), UG/L				1	0.00	0.00
COPPER (CU), UG/L				1	2.00	2.00
IRON (FE), UG/L				99	10.00	970.00
LEAD (PB), UG/L				1	0.00	0.00
MANGANESE (MN), UG/L				92	0.00	780.00
ZINC (ZN), UG/L				1	10.00	10.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06734900 NAME: OLYMPUS TUNNEL AT LAKE ESTES, CO.

LAT 40 22'30" LONG 105 29'13"

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	92	7.12	5.52	0.00	18.50					
STREAMFLOW, MEAN DAILY, (CFS)	40	432.12	125.39	0.00	575.00					
STREAMFLOW (CUBIC FT/SEC)	34	508.97	108.20	100.00	587.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	70	57.56	12.21	17.00	95.00					
OXYGEN, DISSOLVED	93	8.69	1.04	6.80	11.70					
PH (STANDARD UNITS)	90			6.30	8.70					
BICARBONATE ION	36	24.17	7.51	7.00	36.00	32	0.52739	-2.47553	0.9343	2.52736
NITRITE + NITRATE, DISSOLVED AS N	36	0.17	0.37	0.01	2.30					
ORTHOPHOSPHATE, DISSOLVED AS P	36	0.01	0.01	0.00	0.07					
HARDNESS, TOTAL	36	20.97	6.08	7.00	39.00	32	0.40237	0.67007	0.8421	3.23734
CALCIUM, DISSOLVED	36	6.30	1.59	2.60	9.60	32	0.10705	0.91351	0.8565	0.81062
MAGNESIUM, DISSOLVED	36	1.27	0.59	0.10	3.70	32	0.03313	-0.40914	0.6961	0.42936
SODIUM, DISSOLVED	36	2.09	0.57	0.90	3.70	32	0.03643	0.24984	0.7969	0.34707
POTASSIUM, DISSOLVED	36	0.72	0.27	0.20	1.80	32	0.01473	-0.02470	0.6747	0.20254
CHLORIDE, DISSOLVED	36	0.78	0.39	0.30	2.30					
SULFATE, DISSOLVED	36	4.55	2.57	1.80	14.00	32	0.08130	0.46579	0.3801	2.48550
SILICA, DISSOLVED	36	4.68	0.86	3.10	6.80	32	0.02848	3.27379	0.4084	0.79989
DISSOLVED SOLIDS, ROE 180 DEG C	35	33.74	10.29	10.00	66.00	31	0.59243	3.39222	0.6945	7.64402
DISSOLVED SOLIDS, SUM OF CONST	36	33.33	8.88	16.00	57.00	32	0.57007	4.67362	0.8104	5.17865

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				36	40.00	260.00
MANGANESE (MN), UG/L				36	0.00	20.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06737500 NAME: HORSETOOTH RESERVOIR NEAR FORT COLLINS, CO.

LAT 40 36'00" LONG 105 10'06"

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	423	9.98	5.44	2.00	25.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	330	80.90	15.87	52.00	200.00					
OXYGEN, DISSOLVED	289	8.34	1.92	0.00	12.60					
PH (STANDARD UNITS)	222			5.30	8.30					
BICARBONATE ION	6	37.67	4.41	33.00	42.00					
NITRITE + NITRATE, DISSOLVED AS N	194	0.11	0.08	0.00	0.50					
ORTHOPHOSPHATE, DISSOLVED AS P	2	0.03	0.00	0.03	0.03					
HARDNESS, TOTAL	2	27.50	0.71	27.00	28.00	2	-0.09091	34.27273	-1.0000	0.00000
CALCIUM, DISSOLVED	6	8.18	1.05	6.40	9.60					
MAGNESIUM, DISSOLVED	6	3.32	1.43	1.50	4.60					
SODIUM, DISSOLVED	2	2.95	0.64	2.50	3.40	2	-0.08182	9.04546	-1.0000	0.00000
POTASSIUM, DISSOLVED	2	0.75	0.07	0.70	0.80	2	-0.00909	1.42727	-1.0000	0.00000
CHLORIDE, DISSOLVED	3	0.77	0.58	0.10	1.10	2	0.00000	1.10000	0.0000	0.00000
SULFATE, DISSOLVED	2	7.70	3.25	5.40	10.00	2	0.41818	-23.45453	1.0000	0.00000
SILICA, DISSOLVED	2	4.50	0.28	4.30	4.70	2	-0.03636	7.20910	-1.0000	0.00000
BORON, DISSOLVED, UG/L	2	360.00	0.00	360.00	360.00					
DISSOLVED SOLIDS, ROE 180 DEG C	231	52.70	8.93	35.00	81.00	227	0.39860	22.10224	0.4101	8.13647
DISSOLVED SOLIDS, SUM OF CONST	2	46.00	0.00	46.00	46.00	2	0.00000	46.00000	0.0000	0.00000

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				2	80.00	80.00
MANGANESE (MN), UG/L				2	20.00	30.00

STATISTICAL SUMMARY OF WATER QUALITY DATA
STATION NUMBER: 06742500 NAME: CARTER LAKE NEAR BERTHOUD, CO.

LAT 40 19'28" LONG 105 12'41"

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	466	9.19	5.38	0.50	23.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	326	91.34	16.79	65.00	205.00					
OXYGEN, DISSOLVED	348	8.58	1.59	4.50	12.00					
PH (STANDARD UNITS)	228			0.77	8.40					
BICARBONATE ION	2	49.00	1.41	48.00	50.00	2	0.09524	40.09524	1.0000	0.00000
NITRITE + NITRATE, DISSOLVED AS N	204	0.05	0.06	0.00	0.40					
ORTHOPHOSPHATE, DISSOLVED AS P	2	0.01	0.00	0.01	0.01					
HARDNESS, TOTAL	2	39.50	2.12	38.00	41.00	2	0.14286	26.14286	1.0000	0.00000
CALCIUM, DISSOLVED	2	13.50	0.71	13.00	14.00	2	0.04762	9.04762	1.0000	0.00000
MAGNESIUM, DISSOLVED	2	1.40	0.00	1.40	1.40	2	0.00000	1.40000	0.0000	0.00000
SODIUM, DISSOLVED	2	2.35	0.07	2.30	2.40	2	0.00476	1.90476	1.0000	0.00000
POTASSIUM, DISSOLVED	2	0.85	0.07	0.80	0.90	2	-0.00476	1.29524	-1.0000	0.00000
CHLORIDE, DISSOLVED	2	1.15	0.21	1.00	1.30	2	-0.01429	2.48572	-1.0000	0.00000
SULFATE, DISSOLVED	2	4.65	0.07	4.60	4.70	2	0.00476	4.20476	1.0000	0.00000
SILICA, DISSOLVED	2	1.45	1.34	0.50	2.40	2	-0.09048	9.90953	-1.0000	0.00000
DISSOLVED SOLIDS, ROE 180 DEG C	227	52.94	11.23	32.00	116.00	224	0.46543	12.70039	0.4844	9.83920
DISSOLVED SOLIDS, SUM OF CONST	2	50.00	0.00	50.00	50.00	2	0.00000	50.00000	0.0000	0.00000

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				2	20.00	20.00
MANGANESE (MN), UG/L				2	0.00	10.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06744000 NAME: BIG THOMPSON RIVER AT MOUTH, NEAR LA SALLE, CO.

LAT 40 21'00" LONG 104 47'04" DRAINAGE AREA: 830.001 SQ MI (2149.7 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	155	10.96	7.30	0.00	26.00					
STREAMFLOW, MEAN DAILY, (CFS)	96	106.93	117.08	3.50	631.00					
STREAMFLOW (CUBIC FT/SEC)	61	95.13	110.28	4.40	784.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	150	1958.70	507.85	360.00	2880.00					
OXYGEN, DISSOLVED	95	8.80	1.49	6.00	11.80					
PH (STANDARD UNITS)	151			6.60	8.50					
BICARBONATE ION	116	331.57	87.00	70.00	512.00	115	0.14656	41.58483	0.8215	49.92150
NITRITE + NITRATE, DISSOLVED AS N	98	2.42	1.06	0.30	6.00					
ORTHOPHOSPHATE, DISSOLVED AS P	97	0.22	0.16	0.03	0.78					
HARDNESS, TOTAL	114	884.92	240.94	130.00	1270.00	113	0.47940	-60.51338	0.9713	57.60543
CALCIUM, DISSOLVED	114	166.83	42.12	28.00	225.00	113	0.08200	5.06391	0.9516	13.00224
MAGNESIUM, DISSOLVED	114	113.24	33.28	15.00	184.00	113	0.06590	-16.61430	0.9642	8.88899
SODIUM, DISSOLVED	109	151.61	43.35	20.00	230.00	108	0.08720	-17.43061	0.9551	12.95755
POTASSIUM, DISSOLVED	99	6.77	2.69	1.40	17.00	98	0.00365	-0.22338	0.6621	2.03412
CHLORIDE, DISSOLVED	114	21.78	6.52	3.10	34.00	113	0.01125	-0.35486	0.8389	3.58240
SULFATE, DISSOLVED	116	887.66	262.80	100.00	1460.00	115	0.52143	-143.015	0.9660	68.50136
SILICA, DISSOLVED	114	9.42	1.80	5.00	17.00	113	0.00121	7.02209	0.3290	1.70567
BORON, DISSOLVED, UG/L	19	372.11	175.81	0.18	610.00					
DISSOLVED SOLIDS, ROE 180 DEG C	19	1888.74	346.69	966.00	2320.00	19	0.86103	-7.78771	0.9659	92.39479
DISSOLVED SOLIDS, SUM OF CONST	100	1489.39	418.89	212.00	2160.00	99	0.83688	-124.608	0.9784	87.30957

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				1	2.00	2.00
CADMIUM(CD), UG/L				1	0.00	0.00
COPPER (CU), UG/L				1	2.00	2.00
IRON (FE), UG/L				97	10.00	460.00
LEAD (PB), UG/L				1	0.00	0.00
MANGANESE (MN), UG/L				92	20.00	440.00
ZINC (ZN), UG/L				1	30.00	30.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06747500 NAME: CACHE LA POUDRE RIVER NEAR RUSTIC, CO.

LAT 40 41'44" LONG 105 41'23" DRAINAGE AREA: 199.001 SQ MI (515.413 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	70	5.29	4.86	0.00	15.00					
STREAMFLOW, MEAN DAILY, (CFS)	1	18.00	.	18.00	18.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	63	62.83	19.52	26.00	100.00					
OXYGEN, DISSOLVED	43	9.74	1.22	7.40	11.60					
PH (STANDARD UNITS)	69			6.30	8.80					
BICARBONATE ION	47	30.66	9.59	14.00	44.00	47	0.45076	3.92074	0.9411	3.28058
NITRITE + NITRATE, DISSOLVED AS N	47	0.05	0.05	0.00	0.21					
ORTHOPHOSPHATE, DISSOLVED AS P	47	0.01	0.01	0.00	0.05					
HARDNESS, TOTAL	47	23.21	6.16	12.00	33.00	47	0.27241	7.05337	0.8862	2.88355
CALCIUM, DISSOLVED	47	6.53	1.50	3.60	8.90	47	0.06365	2.75395	0.8510	0.79548
MAGNESIUM, DISSOLVED	47	1.69	0.64	0.60	2.90	47	0.02767	0.04610	0.8657	0.32403
SODIUM, DISSOLVED	47	3.21	1.29	0.80	6.50	47	0.03538	1.10978	0.5507	1.08600
POTASSIUM, DISSOLVED	46	1.01	0.36	0.40	2.50	46	0.01177	0.30403	0.6645	0.26917
CHLORIDE, DISSOLVED	47	1.22	0.48	0.30	2.30	47	0.00854	0.71690	0.3529	0.45847
SULFATE, DISSOLVED	47	4.09	1.05	2.50	7.80					
SILICA, DISSOLVED	47	10.25	2.28	6.20	14.00	47	0.08927	4.95115	0.7852	1.42592
DISSOLVED SOLIDS, SUM OF CONST	46	43.85	10.44	25.00	61.00	46	0.46219	16.26731	0.8898	4.81779

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				1	0.00	0.00
CADMIUM(CD), UG/L				1	0.00	0.00
COPPER (CU), UG/L				1	10.00	10.00
IRON (FE), UG/L				47	30.00	310.00
LEAD (PB), UG/L				1	2.00	2.00
MANGANESE (MN), UG/L				46	0.00	40.00
MERCURY (HG), UG/L				1	0.00	0.00
SELENIUM (SE), UG/L				1	7.00	7.00
ZINC (ZN), UG/L				1	20.00	20.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06752000 NAME: CACHE LA POUDRE R A MO OF CN, NR FT COLLINS, CO.

LAT 40 39'52" LONG 105 13'26" DRAINAGE AREA: 1055 SQ MI (2732.45 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	151	8.40	6.19	0.00	21.00					
STREAMFLOW, MEAN DAILY, (CFS)	91	365.92	537.52	11.00	2470.00					
STREAMFLOW (CUBIC FT/SEC)	52	329.31	542.63	7.00	2194.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	102	108.63	55.91	27.00	285.00					
OXYGEN, DISSOLVED	80	10.05	1.66	7.10	13.00					
PH (STANDARD UNITS)	107			6.10	8.50					
BICARBONATE ION	83	53.87	31.12	13.00	147.00	83	0.51046	-1.69855	0.9792	6.36002
NITRITE + NITRATE, DISSOLVED AS N	83	0.08	0.08	0.00	0.41					
ORTHOPHOSPHATE, DISSOLVED AS P	83	0.01	0.02	0.00	0.11					
HARDNESS, TOTAL	81	43.36	24.08	12.00	110.00	81	0.39263	0.46010	0.9808	4.72486
CALCIUM, DISSOLVED	82	12.28	6.53	3.60	31.00	82	0.10664	0.60322	0.9769	1.40575
MAGNESIUM, DISSOLVED	81	3.11	1.88	0.60	9.10	81	0.03042	-0.21379	0.9744	0.42491
SODIUM, DISSOLVED	83	4.54	2.06	1.50	9.70	83	0.03190	1.06850	0.9230	0.79860
POTASSIUM, DISSOLVED	82	1.05	0.29	0.50	1.80	82	0.00366	0.64961	0.7693	0.18329
CHLORIDE, DISSOLVED	82	1.98	1.22	0.50	6.70	82	0.01696	0.12253	0.8318	0.68234
SULFATE, DISSOLVED	82	5.94	2.15	3.00	14.00	82	0.02220	3.50791	0.6188	1.69623
SILICA, DISSOLVED	83	9.74	1.80	6.50	14.00	83	0.01416	8.19689	0.4708	1.59426
DISSOLVED SOLIDS, SUM OF CONST	79	66.10	30.29	20.00	146.00	79	0.48670	12.45354	0.9740	6.91242

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				2	0.00	1.00
CADMIUM(CD), UG/L				2	0.00	1.00
COPPER (CU), UG/L				2	3.00	5.00
IRON (FE), UG/L				83	0.00	240.00
LEAD (PB), UG/L				2	2.00	2.00
MANGANESE (MN), UG/L				83	0.00	110.00
MERCURY (HG), UG/L				1	0.10	0.10
SELENIUM (SE), UG/L				1	0.00	0.00
ZINC (ZN), UG/L				2	10.00	20.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06752260 NAME: CACHE LA POUDRE RIVER AT FORT COLLINS, CO.

LAT 40 35'17" LONG 105 04'08" DRAINAGE AREA: 1127 SQ MI (2918.93 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	53	11.24	5.88	1.00	21.00					
STREAMFLOW (CUBIC FT/SEC)	42	58.94	143.90	1.50	685.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	43	439.42	239.83	45.00	750.00					
OXYGEN, DISSOLVED	233	9.66	2.04	4.90	14.50					
PH (STANDARD UNITS)	40			6.10	8.30					
BICARBONATE ION	39	183.95	95.63	20.00	299.00	39	0.39809	5.36985	0.9830	17.79123
NITRITE + NITRATE, DISSOLVED AS N	41	0.53	0.38	0.03	1.40					
ORTHOPHOSPHATE, DISSOLVED AS P	41	0.01	0.01	0.00	0.05					
HARDNESS, TOTAL	41	201.05	103.98	18.00	320.00	41	0.44354	-1.30120	0.9925	12.83366
CALCIUM, DISSOLVED	41	54.32	27.37	5.30	85.00	41	0.11676	1.04687	0.9927	3.33422
MAGNESIUM, DISSOLVED	41	15.77	8.63	1.20	25.00	41	0.03654	-0.90008	0.9855	1.48146
SODIUM, DISSOLVED	41	18.02	10.04	2.00	35.00	41	0.04108	-0.72324	0.9523	3.10322
POTASSIUM, DISSOLVED	41	2.55	1.07	0.70	5.90	41	0.00432	0.57962	0.9437	0.35713
CHLORIDE, DISSOLVED	41	8.95	5.60	0.70	21.00	41	0.02170	-0.94620	0.9022	2.44536
SULFATE, DISSOLVED	41	68.85	39.45	4.70	120.00	41	0.16439	-6.15020	0.9698	9.75004
SILICA, DISSOLVED	41	8.26	1.73	5.80	12.00	41	0.00385	6.50314	0.5176	1.49902
BORON, DISSOLVED, UG/L	1	140.00	.	140.00	140.00					
DISSOLVED SOLIDS, SUM OF CONST	39	266.87	140.74	33.00	434.00	39	0.58983	2.28178	0.9897	20.46043

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				41	20.00	160.00
MANGANESE (MN), UG/L				40	0.00	200.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06752500 NAME: CACHE LA POUDRE RIVER NEAR GREELEY, CO.

LAT 40 25'04" LONG 104 38'22" DRAINAGE AREA: 1877 SQ MI (4861.43 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	153	12.05	6.73	0.00	25.00					
STREAMFLOW, MEAN DAILY, (CFS)	126	153.31	290.12	6.40	1840.00					
STREAMFLOW (CUBIC FT/SEC)	62	115.05	257.69	8.20	2025.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	184	1671.68	358.60	277.00	2350.00					
OXYGEN, DISSOLVED	93	9.18	1.68	4.10	12.40					
PH (STANDARD UNITS)	183			6.50	8.70					
BICARBONATE ION	149	347.38	113.36	63.00	1060.00	148	0.22346	-31.61007	0.6547	86.25378
NITRITE + NITRATE, DISSOLVED AS N	97	4.24	1.70	0.18	8.30					
ORTHOPHOSPHATE, DISSOLVED AS P	96	0.72	0.39	0.06	1.80					
HARDNESS, TOTAL	146	741.78	160.15	100.00	1050.00	145	0.46213	-40.30557	0.9621	43.98810
CALCIUM, DISSOLVED	146	162.37	33.96	25.00	210.00	145	0.09435	2.69028	0.9264	12.87235
MAGNESIUM, DISSOLVED	147	81.64	19.79	9.70	138.00	146	0.05391	-0.75790	0.9106	8.23324
SODIUM, DISSOLVED	142	121.93	30.36	14.00	201.00	141	0.08369	-19.19176	0.9273	11.44754
POTASSIUM, DISSOLVED	131	7.68	2.70	1.80	18.00	130	0.00448	0.15373	0.5759	2.22079
CHLORIDE, DISSOLVED	147	43.80	22.70	3.90	162.00	146	0.03712	-19.08164	0.5465	19.13571
SULFATE, DISSOLVED	149	637.52	156.20	65.00	964.00	148	0.40503	-49.16010	0.8611	79.96054
SILICA, DISSOLVED	145	12.70	2.29	6.80	20.00	144	0.00214	9.06493	0.3139	2.18113
BORON, DISSOLVED, UG/L	54	290.01	85.21	0.29	480.00					
DISSOLVED SOLIDS, ROE 180 DEG C	53	1468.06	237.61	308.00	1840.00	53	0.84838	-83.02416	0.9375	83.50045
DISSOLVED SOLIDS, SUM OF CONST	108	1213.09	270.18	169.00	1590.00	107	0.78380	-80.24045	0.9793	55.12422

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 37

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	2010	1990	1990	1960	1890	1770	1730	1720	1650

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				1	0.00	0.00
CADMIUM(CD), UG/L				1	0.00	0.00
COPPER (CU), UG/L				1	2.00	2.00
IRON (FE), UG/L				93	10.00	280.00
LEAD (PB), UG/L				1	1.00	1.00
MANGANESE (MN), UG/L				89	10.00	500.00
ZINC (ZN), UG/L				1	20.00	20.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06754000 NAME: SOUTH PLATTE RIVER NEAR KERSEY, CO.

LAT 40 24'44" LONG 104 33'46" DRAINAGE AREA: 9598 SQ MI (24858.8 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	186	12.69	7.18	0.00	27.00					
STREAMFLOW, MEAN DAILY, (CFS)	278	883.25	1524.29	44.00	10600.00					
STREAMFLOW (CUBIC FT/SEC)	63	617.47	720.29	70.00	5300.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	232	1466.58	376.26	411.00	2520.00					
OXYGEN, DISSOLVED	31	8.57	1.28	6.10	11.20					
PH (STANDARD UNITS)	208			7.00	8.70					
BICARBONATE ION	206	288.54	79.20	91.00	487.00	206	0.19806	0.34384	0.9073	33.38504
NITRITE + NITRATE, DISSOLVED AS N	37	5.00	1.48	1.90	9.20					
ORTHOPHOSPHATE, DISSOLVED AS P	35	0.54	0.40	0.12	1.50					
HARDNESS, TOTAL	212	576.12	161.49	141.00	815.00	205	0.44074	-66.98299	0.9791	33.34545
CALCIUM, DISSOLVED	160	135.44	34.60	41.00	236.00	156	0.10095	-17.35507	0.8913	15.91002
MAGNESIUM, DISSOLVED	159	64.06	16.61	14.00	100.00	155	0.04802	-8.61081	0.8861	7.80660
SODIUM, DISSOLVED	201	121.26	33.96	26.00	182.00	194	0.09044	-10.55815	0.9771	7.33865
POTASSIUM, DISSOLVED	145	6.73	1.71	2.40	14.00	141	0.00322	1.86077	0.5906	1.39114
CHLORIDE, DISSOLVED	204	45.42	17.75	8.00	97.00	201	0.03187	-0.72115	0.6526	13.56017
SULFATE, DISSOLVED	209	518.87	156.46	110.00	770.00	202	0.41638	-87.64191	0.9592	44.86878
SILICA, DISSOLVED	153	13.57	2.76	5.80	27.00	153	0.00274	9.40884	0.3038	2.63388
BORON, DISSOLVED, UG/L	109	233.83	106.31	0.09	560.00					
DISSOLVED SOLIDS, ROE 180 DEG C	166	1100.85	328.90	256.00	1560.00	166	0.84820	-121.045	0.9943	35.04597
DISSOLVED SOLIDS, SUM OF CONST	98	1106.02	223.26	356.00	1470.00	98	0.78310	-92.64268	0.9772	47.65975

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				1	0.00	0.00
CADMIUM(CD), UG/L				1	0.00	0.00
COPPER (CU), UG/L				1	2.00	2.00
IRON (FE), UG/L				51	0.00	90.00
LEAD (PB), UG/L				1	0.00	0.00
MANGANESE (MN), UG/L				35	40.00	340.00
ZINC (ZN), UG/L				1	10.00	10.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06756995 NAME: SOUTH PLATTE RIVER AT MASTERS, CO.

LAT 40 18'21" LONG 104 14'40" DRAINAGE AREA: 12119 SQ MI (31388.2 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	60	15.02	7.21	0.00	27.50					
STREAMFLOW, MEAN DAILY, (CFS)	1	0.40	.	0.40	0.40					
STREAMFLOW (CUBIC FT/SEC)	25	259.24	182.44	4.94	730.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	60	1504.08	225.66	600.00	1750.00					
OXYGEN, DISSOLVED	32	8.72	1.22	7.00	11.60					
PH (STANDARD UNITS)	34			7.70	8.50					
BICARBONATE ION	34	297.88	37.35	160.00	340.00	34	0.16951	37.23806	0.9025	16.33675
NITRITE + NITRATE, DISSOLVED AS N	33	3.39	1.07	1.40	5.90					
ORTHOPHOSPHATE, DISSOLVED AS P	34	0.31	0.26	0.02	1.20					
HARDNESS, TOTAL	34	594.71	78.63	300.00	730.00	34	0.34711	60.98012	0.8778	38.24935
CALCIUM, DISSOLVED	34	137.06	18.79	71.00	180.00	34	0.08317	9.17633	0.8803	9.05074
MAGNESIUM, DISSOLVED	34	61.24	8.87	29.00	72.00	34	0.03467	7.93202	0.7775	5.66208
SODIUM, DISSOLVED	34	137.32	19.24	59.00	160.00	34	0.08610	4.93869	0.8898	8.91642
POTASSIUM, DISSOLVED	34	7.14	0.78	4.10	8.90	34	0.00203	4.01726	0.5187	0.67629
CHLORIDE, DISSOLVED	34	59.44	10.95	26.00	80.00	34	0.04438	-8.79830	0.8060	6.58158
SULFATE, DISSOLVED	34	528.53	76.48	240.00	650.00	34	0.31516	43.93016	0.8195	44.51410
SILICA, DISSOLVED	33	12.65	1.81	8.60	16.00					
DISSOLVED SOLIDS, SUM OF CONST	33	1100.94	142.05	527.00	1250.00	33	0.64894	106.28519	0.9129	58.89670

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				33	0.00	290.00
MANGANESE (MN), UG/L				34	10.00	200.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06758500 NAME: SOUTH PLATTE RIVER NEAR WELDONA, CO.

LAT 40 19'19" LONG 103 55'17" DRAINAGE AREA: 13245 SQ MI (34304.5 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	246	16.20	8.06	0.00	29.50					
STREAMFLOW, MEAN DAILY, (CFS)	69	877.61	1804.58	105.00	11000.00					
STREAMFLOW (CUBIC FT/SEC)	209	341.50	318.11	43.00	2140.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	132	1749.19	318.25	598.00	2870.00					
OXYGEN, DISSOLVED	88	9.62	1.34	6.50	13.40					
PH (STANDARD UNITS)	130			6.80	8.70					
BICARBONATE ION	106	310.48	47.14	123.00	440.00	106	0.11615	104.68247	0.7699	30.22627
NITRITE + NITRATE, DISSOLVED AS N	92	3.90	1.38	0.32	8.80					
ORTHOPHOSPHATE, DISSOLVED AS P	93	0.40	0.50	0.01	3.10					
HARDNESS, TOTAL	105	691.59	146.53	200.00	1300.00	105	0.43477	-78.98629	0.9314	53.61209
CALCIUM, DISSOLVED	106	160.31	33.87	52.00	285.00	106	0.09567	-9.20734	0.8826	16.00210
MAGNESIUM, DISSOLVED	105	70.76	17.35	17.00	150.00	105	0.04766	-13.71499	0.8622	8.83418
SODIUM, DISSOLVED	106	163.93	31.60	46.00	291.00	106	0.09304	-0.91274	0.9198	12.46098
POTASSIUM, DISSOLVED	94	8.30	1.26	4.50	11.00	94	0.00283	3.32994	0.6771	0.93399
CHLORIDE, DISSOLVED	106	68.34	10.39	24.00	92.00	106	0.02537	23.38036	0.7633	6.74163
SULFATE, DISSOLVED	106	656.44	163.38	150.00	1400.00	106	0.47970	-193.525	0.9174	65.34929
SILICA, DISSOLVED	106	15.85	3.97	7.70	30.00	106	0.00875	0.35472	0.6891	2.88783
DISSOLVED SOLIDS, ROE 180 DEG C	11	1495.45	428.66	1090.00	2620.00	11	1.09050	-513.048	0.9928	54.14062
DISSOLVED SOLIDS, SUM OF CONST	94	1307.82	258.89	375.00	2240.00	94	0.78376	-69.82250	0.9152	104.92386

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				93	0.00	260.00
MANGANESE (MN), UG/L				93	0.00	160.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06759100 NAME: BIJOU CREEK NEAR FT. MORGAN, CO.

LAT 40 16'58" LONG 103 52'30" DRAINAGE AREA: 15000 SQ MI (38850 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	59	15.31	3.59	5.00	21.50					
STREAMFLOW (CUBIC FT/SEC)	24	13.06	11.92	4.40	55.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	59	1661.19	133.65	1250.00	2150.00					
OXYGEN, DISSOLVED	33	6.82	1.51	3.50	10.00					
PH (STANDARD UNITS)	34			7.20	8.60					
BICARBONATE ION	34	315.62	8.81	300.00	340.00	34	0.03858	250.24416	0.5304	7.58250
NITRITE + NITRATE, DISSOLVED AS N	33	7.76	1.43	4.00	11.00					
ORTHOPHOSPHATE, DISSOLVED AS P	34	0.05	0.06	0.00	0.38					
HARDNESS, TOTAL	34	681.18	42.12	620.00	890.00	34	0.20900	327.03917	0.6008	34.19518
CALCIUM, DISSOLVED	34	204.41	8.24	180.00	220.00					
MAGNESIUM, DISSOLVED	34	41.29	8.98	28.00	88.00	34	0.04412	-33.45973	0.5949	7.33001
SODIUM, DISSOLVED	34	144.12	12.82	130.00	210.00	34	0.05184	56.27876	0.4896	11.35130
POTASSIUM, DISSOLVED	34	9.69	0.39	8.90	11.00					
CHLORIDE, DISSOLVED	34	55.68	7.63	23.00	78.00					
SULFATE, DISSOLVED	34	603.53	50.26	560.00	860.00	34	0.25106	178.13711	0.6048	40.65126
SILICA, DISSOLVED	33	21.42	1.84	16.00	23.00					
DISSOLVED SOLIDS, SUM OF CONST	33	1269.70	76.46	1190.00	1660.00	33	0.39260	604.53656	0.6313	60.24842

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				34	0.00	80.00
MANGANESE (MN), UG/L				34	60.00	450.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06760000 NAME: SOUTH PLATTE RIVER AT BALZAC, CO.

LAT 40 24'24" LONG 103 27'58" DRAINAGE AREA: 16852 SQ MI (43646.7 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	58	13.57	7.82	0.00	25.00					
STREAMFLOW, MEAN DAILY, (CFS)	105	598.99	2214.09	6.80	15900.00					
STREAMFLOW (CUBIC FT/SEC)	2	487.50	236.88	320.00	655.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	119	1721.53	246.78	640.00	2020.00					
OXYGEN, DISSOLVED	2	8.40	0.85	7.80	9.00					
PH (STANDARD UNITS)	117			7.20	8.60					
BICARBONATE ION	116	287.23	44.78	153.00	350.00	116	0.12879	64.38674	0.6570	33.90864
NITRITE + NITRATE, DISSOLVED AS N	1	3.50	.	3.50	3.50					
HARDNESS, TOTAL	116	691.11	106.57	283.00	840.00	116	0.45407	-94.59062	0.9733	24.55864
CALCIUM, DISSOLVED	111	171.57	30.00	64.00	223.00	111	0.11239	-23.38108	0.8575	15.50395
MAGNESIUM, DISSOLVED	111	64.52	12.46	26.00	90.00	111	0.04178	-7.94043	0.7675	8.02146
SODIUM, DISSOLVED	100	151.94	24.11	56.00	186.00	100	0.09557	-13.52561	0.9637	6.47096
POTASSIUM, DISSOLVED	94	8.83	1.48	4.00	13.00	94	0.00391	2.03586	0.6493	1.13160
CHLORIDE, DISSOLVED	115	57.60	8.79	29.00	74.00	115	0.02613	12.40325	0.6815	6.46117
SULFATE, DISSOLVED	115	692.06	124.04	211.00	850.00	115	0.51854	-204.709	0.9581	35.67110
SILICA, DISSOLVED	111	14.12	3.21	2.40	27.00					
BORON, DISSOLVED, UG/L	111	213.22	97.37	0.00	430.00					
DISSOLVED SOLIDS, ROE 180 DEG C	111	1368.09	207.23	548.00	1590.00	111	0.89421	-182.933	0.9875	32.83174
DISSOLVED SOLIDS, SUM OF CONST	62	1274.79	234.33	508.00	1560.00	62	0.86487	-191.75	0.9920	29.89711

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				8	0.00	250.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06764000 NAME: SOUTH PLATTE RIVER AT JULESBURG, CO.

LAT 40 58'46" LONG 102 15'15" DRAINAGE AREA: 23138 SQ MI (59927.4 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	177	15.43	6.51	0.00	32.50					
STREAMFLOW, MEAN DAILY, (CFS)	374	608.33	1404.43	9.50	17200.00					
STREAMFLOW (CUBIC FT/SEC)	41	199.22	191.74	15.00	679.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	406	1745.96	316.53	617.00	2500.00					
OXYGEN, DISSOLVED	186	8.70	1.76	6.50	13.00					
PH (STANDARD UNITS)	348			6.60	8.80					
BICARBONATE ION	340	276.63	50.81	142.00	440.00	339	0.11753	71.06441	0.7440	33.88255
ORTHOPHOSPHATE, DISSOLVED AS P	1	0.07	.	0.07	0.07					
HARDNESS, TOTAL	402	645.45	126.70	202.00	880.00	398	0.39318	-41.29960	0.9688	31.58257
CALCIUM, DISSOLVED	157	180.73	34.18	64.00	249.00	157	0.10026	-0.66114	0.9047	14.60887
MAGNESIUM, DISSOLVED	156	53.78	11.38	13.00	75.00	156	0.03150	-3.14810	0.8534	5.95235
SODIUM, DISSOLVED	395	162.51	35.44	5.40	279.00	390	0.10510	-20.87689	0.9587	9.89282
POTASSIUM, DISSOLVED	155	15.75	3.70	5.60	26.00	155	0.00639	4.20212	0.5356	3.13248
CHLORIDE, DISSOLVED	178	68.01	18.01	0.40	110.00	177	0.04637	-14.69625	0.8387	9.46232
SULFATE, DISSOLVED	179	681.90	149.08	9.50	980.00	178	0.42671	-79.58975	0.9501	43.99710
SILICA, DISSOLVED	156	25.65	7.22	9.80	49.00	156	0.00478	17.00504	0.2047	7.09427
BORON, DISSOLVED, UG/L	86	250.12	63.09	100.00	560.00					
DISSOLVED SOLIDS, ROE 180 DEG C	389	1356.04	271.41	429.00	1860.00	389	0.83618	-104.644	0.9774	57.47859
DISSOLVED SOLIDS, SUM OF CONST	120	1400.62	201.11	469.00	1860.00	120	0.73181	31.00835	0.9244	77.05217

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE =10741

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	2300	2140	2080	1960	1830	1690	1530	1370	981

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				22	0.00	7.00
CADMIUM(CD), UG/L				22	0.00	5.00
CHROMIUM (CR), UG/L				22	0.00	20.00
COPPER (CU), UG/L				23	0.00	20.00
IRON (FE), UG/L				53	0.00	400.00
LEAD (PB), UG/L				23	0.00	6.00
MANGANESE (MN), UG/L				21	0.00	320.00
MERCURY (HG), UG/L				20	0.00	0.60
SELENIUM (SE), UG/L				22	1.00	8.00
ZINC (ZN), UG/L				23	10.00	80.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 06764200 NAME: SOUTH PLATTE RIVER NEAR JULESBURG, COLO.

LAT 41 00'59" LONG 102 10'34"

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	40	10.17	8.88	0.00	29.00					
STREAMFLOW, MEAN DAILY, (CFS)	50	820.50	1193.21	20.00	7120.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	48	1757.23	274.30	897.00	2160.00					
PH (STANDARD UNITS)	32			7.30	8.40					
BICARBONATE ION	32	278.87	47.81	181.00	358.00	32	0.10390	93.77441	0.6120	38.43660
NITRITE + NITRATE, DISSOLVED AS N	25	1.85	1.16	0.01	4.70					
HARDNESS, TOTAL	40	652.15	101.67	340.00	770.00	40	0.37184	-1.73430	0.9140	41.79406
CALCIUM, DISSOLVED	37	173.22	27.83	100.00	210.00	37	0.10871	-20.10497	0.8595	14.42281
MAGNESIUM, DISSOLVED	37	54.38	7.03	31.00	68.00	37	0.02097	17.07735	0.6562	5.38256
SODIUM, DISSOLVED	21	175.81	20.06	140.00	208.00	21	0.07800	32.95399	0.6652	15.36494
POTASSIUM, DISSOLVED	22	15.93	3.25	9.40	24.00	22	0.01139	-4.92137	0.5843	2.70636
CHLORIDE, DISSOLVED	40	70.65	12.30	30.00	88.00	40	0.04199	-3.18480	0.8533	6.49513
SULFATE, DISSOLVED	40	657.05	118.14	283.00	810.00	40	0.44389	-123.535	0.9390	41.16228
SILICA, DISSOLVED	20	23.00	5.07	13.00	32.00	20	0.02025	-14.06745	0.7009	3.71365
BORON, DISSOLVED, UG/L	21	279.81	47.88	219.00	447.00					
DISSOLVED SOLIDS, ROE 180 DEG C	35	1381.26	229.35	672.00	1670.00	35	0.85926	-111.161	0.9562	68.12718
DISSOLVED SOLIDS, SUM OF CONST	19	1366.32	145.42	1050.00	1550.00	19	0.77347	-52.38293	0.9543	44.70746

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				21	10.00	340.00
MANGANESE (MN), UG/L				17	10.00	180.00

STATISTICAL SUMMARY OF WATER QUALITY DATA
STATION NUMBER: 07079200 NAME: LEADVILLE DRAIN AT LEADVILLE, CO.

LAT 39 16'29" LONG 106 17'15"

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	30	6.92	0.52	6.00	8.00					
STREAMFLOW, MEAN DAILY, (CFS)	21	3.12	0.35	2.50	3.60					
STREAMFLOW (CUBIC FT/SEC)	11	2.63	1.01	0.50	3.60					
SPECIFIC CONDUCTANCE (MICROMHOS)	37	819.46	92.59	559.00	980.00					
OXYGEN, DISSOLVED	1	5.90	.	5.90	5.90					
PH (STANDARD UNITS)	37			6.50	7.60					
BICARBONATE ION	35	139.77	14.77	106.00	171.00					
NITRITE + NITRATE, DISSOLVED AS N	1	0.48	.	0.48	0.48					
ORTHOPHOSPHATE, DISSOLVED AS P	1	0.00	.	0.00	0.00					
HARDNESS, TOTAL	32	454.56	61.56	290.00	570.00	32	0.60429	-38.59207	0.9309	22.84887
CALCIUM, DISSOLVED	32	102.25	15.17	55.00	124.00	32	0.14712	-17.81601	0.9197	6.05425
MAGNESIUM, DISSOLVED	32	48.47	7.40	36.00	67.00	32	0.05716	1.82099	0.7324	5.12716
SODIUM, DISSOLVED	29	4.05	0.77	2.40	6.20	29	0.00610	-0.89388	0.7434	0.52588
POTASSIUM, DISSOLVED	29	1.35	0.33	0.50	1.80	29	0.00136	0.24835	0.3881	0.30987
CHLORIDE, DISSOLVED	29	2.49	1.10	0.17	4.00					
SULFATE, DISSOLVED	30	342.83	64.67	188.00	464.00	30	0.67979	-208.027	0.9728	15.25955
SILICA, DISSOLVED	30	9.64	0.58	8.70	11.00	30	0.00373	6.61327	0.5953	0.47571
BORON, DISSOLVED, UG/L	28	20.72	34.95	0.00	170.00					
DISSOLVED SOLIDS, ROE 180 DEG C	28	617.14	91.14	388.00	768.00	28	0.94288	-146.591	0.9912	12.31448
DISSOLVED SOLIDS, SUM OF CONST	29	592.10	92.01	363.00	756.00	29	0.96166	-187.502	0.9841	16.62002

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				5	0.00	0.00
CADMIUM(CD), UG/L				5	5.00	20.00
CHROMIUM (CR), UG/L				1	10.00	10.00
COPPER (CU), UG/L				5	0.00	10.00
IRON (FE), UG/L				12	0.84	1500.00
LEAD (PB), UG/L				5	0.00	1.00
MANGANESE (MN), UG/L				12	4.10	7200.00
MERCURY (HG), UG/L				2	0.00	0.40
SELENIUM (SE), UG/L				5	0.00	14.00
ZINC (ZN), UG/L				33	4600.00	20000.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07081200 NAME: ARKANSAS RIVER NEAR LEADVILLE, CO.

LAT 39 15'26" LONG 106 20'35" DRAINAGE AREA: 97.201 SQ MI (251.751 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	59	4.24	4.63	0.00	15.00					
STREAMFLOW, MEAN DAILY, (CFS)	21	90.67	140.24	11.00	540.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	61	223.13	92.44	75.00	500.00					
PH (STANDARD UNITS)	21			7.00	7.80					
BICARBONATE ION	21	75.90	26.30	20.00	110.00	21	0.27905	13.94145	0.9507	8.36471
HARDNESS, TOTAL	21	109.57	46.70	35.00	172.00	21	0.51938	-5.75595	0.9965	3.98779
CALCIUM, DISSOLVED	21	25.34	11.28	8.30	40.00	21	0.12396	-2.18652	0.9843	2.04601
MAGNESIUM, DISSOLVED	21	11.30	4.72	3.60	18.00	21	0.05164	-0.16685	0.9802	0.95820
SODIUM, DISSOLVED	21	2.31	0.59	1.10	3.00	21	0.00545	1.09835	0.8298	0.33721
POTASSIUM, DISSOLVED	21	1.01	0.88	0.50	4.40					
CHLORIDE, DISSOLVED	21	1.79	0.51	1.20	2.80					
SULFATE, DISSOLVED	21	49.10	26.80	11.00	96.00	21	0.29098	-15.51712	0.9728	6.37151
SILICA, DISSOLVED	21	6.77	1.37	4.40	8.50	21	0.01178	4.15597	0.7703	0.89631
BORON, DISSOLVED, UG/L	21	33.33	28.69	0.00	90.00					
DISSOLVED SOLIDS, ROE 180 DEG C	20	140.35	56.43	58.00	223.00	20	0.62320	4.55494	0.9921	7.26396
DISSOLVED SOLIDS, SUM OF CONST	21	137.10	55.82	48.00	216.00	21	0.62074	-0.73373	0.9964	4.82910

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ZINC (ZN), UG/L				18	110.00	980.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07083000 NAME: HALFMOON CREEK NEAR MALTA, CO.

LAT 39 10'20" LONG 106 23'19" DRAINAGE AREA: 23.601 SQ MI (61.1265 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	205	4.34	4.30	0.00	15.00					
STREAMFLOW, MEAN DAILY, (CFS)	154	28.26	36.44	2.60	196.00					
STREAMFLOW (CUBIC FT/SEC)	67	27.17	39.86	1.53	176.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	176	81.91	17.59	43.00	120.00					
OXYGEN, DISSOLVED	84	8.96	0.96	7.00	10.40					
PH (STANDARD UNITS)	173			5.70	8.90					
BICARBONATE ION	140	44.03	9.70	19.00	60.00	137	0.50887	2.17777	0.8781	4.68057
NITRITE + NITRATE, DISSOLVED AS N	87	0.13	0.06	0.03	0.33					
ORTHOPHOSPHATE, DISSOLVED AS P	84	0.01	0.01	0.00	0.06					
HARDNESS, TOTAL	144	38.32	8.25	19.00	52.00	139	0.43190	3.33317	0.9117	3.38948
CALCIUM, DISSOLVED	144	9.37	2.10	0.00	14.00	139	0.10210	1.09035	0.8415	1.14191
MAGNESIUM, DISSOLVED	145	3.62	1.01	1.20	6.80	140	0.04119	0.29419	0.7095	0.71007
SODIUM, DISSOLVED	140	1.48	0.48	0.60	3.00	139	0.01886	-0.06402	0.6778	0.35543
POTASSIUM, DISSOLVED	140	0.65	0.31	0.10	3.40	139	0.00544	0.20695	0.3040	0.29692
CHLORIDE, DISSOLVED	143	0.80	0.51	0.00	2.50					
SULFATE, DISSOLVED	142	5.35	1.60	1.00	10.00	139	0.05438	0.93050	0.5939	1.28698
SILICA, DISSOLVED	142	5.32	1.43	1.20	9.70	140	0.06524	-0.00413	0.7843	0.89565
BORON, DISSOLVED, UG/L	59	13.07	16.27	0.00	70.00					
DISSOLVED SOLIDS, ROE 180 DEG C	60	46.90	12.73	20.00	76.00	58	0.54285	4.57267	0.7654	8.16432
DISSOLVED SOLIDS, SUM OF CONST	122	48.91	10.62	26.00	64.00	121	0.56334	3.19209	0.9389	3.67902

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				4	0.00	6.00
CADMIUM(CD), UG/L				4	0.00	2.00
CHROMIUM (CR), UG/L				1	0.00	0.00
COPPER (CU), UG/L				3	2.00	3.00
IRON (FE), UG/L				87	0.00	1100.00
LEAD (PB), UG/L				4	0.00	3.00
MANGANESE (MN), UG/L				85	0.00	90.00
MERCURY (HG), UG/L				1	0.20	0.20
SELENIUM (SE), UG/L				3	0.00	1.00
ZINC (ZN), UG/L				14	0.00	90.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07083700 NAME: ARKANSAS RIVER NEAR MALTA, CO.

LAT 39 10'08" LONG 106 19'25" DRAINAGE AREA: 228.001 SQ MI (590.523 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	50	6.73	5.34	0.00	17.50					
STREAMFLOW, MEAN DAILY, (CFS)	12	207.00	248.61	48.00	811.00					
STREAMFLOW (CUBIC FT/SEC)	17	230.29	430.47	3.60	1690.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	63	205.95	162.06	70.00	942.00					
OXYGEN, DISSOLVED	12	8.95	0.85	7.90	10.70					
PH (STANDARD UNITS)	35			5.50	8.20					
BICARBONATE ION	36	58.28	19.84	17.00	87.00					
NITRITE + NITRATE, DISSOLVED AS N	14	0.18	0.10	0.05	0.38					
ORTHOPHOSPHATE, DISSOLVED AS P	14	0.02	0.02	0.00	0.05					
HARDNESS, TOTAL	36	113.89	96.50	39.00	478.00	31	0.49603	-10.04542	0.9968	8.29359
CALCIUM, DISSOLVED	36	26.71	20.11	9.50	95.00	31	0.10299	0.99830	0.9944	2.27665
MAGNESIUM, DISSOLVED	36	11.39	11.38	3.60	58.00	31	0.05795	-3.10707	0.9855	2.08217
SODIUM, DISSOLVED	31	5.05	3.77	1.40	21.00	31	0.01667	0.64565	0.9088	1.59818
POTASSIUM, DISSOLVED	30	1.35	1.07	0.50	4.70	30	0.00504	0.01892	0.9837	0.19546
CHLORIDE, DISSOLVED	31	2.91	1.94	0.80	9.30	31	0.00853	0.65047	0.9047	0.83852
SULFATE, DISSOLVED	31	77.45	108.37	14.00	463.00	31	0.52004	-60.10622	0.9852	18.92390
SILICA, DISSOLVED	33	8.23	2.28	4.50	14.00	31	0.00867	5.96598	0.7584	1.55497
BORON, DISSOLVED, UG/L 1020	17	19.44	19.49	0.00	60.00					
DISSOLVED SOLIDS, ROE 180 DEG C	17	227.06	197.04	80.00	700.00	17	0.76502	-26.34328	0.9977	13.74490
DISSOLVED SOLIDS, SUM OF CONST	18	198.61	190.37	55.00	663.00	18	0.73154	-27.88215	0.9980	12.35466

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				18	0.00	20.00
CADMIUM(CD), UG/L				19	0.00	3.00
COPPER (CU), UG/L				7	0.00	21.00
IRON (FE), UG/L				22	20.00	730.00
LEAD (PB), UG/L				20	0.00	8.00
MANGANESE (MN), UG/L				23	100.00	700.00
MERCURY (HG), UG/L				1	1.10	1.10
SELENIUM (SE), UG/L				18	0.00	30.00
ZINC (ZN), UG/L				11	16.00	870.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07086000 NAME: ARKANSAS RIVER AT GRANITE, CO.

LAT 39 02'34" LONG 106 15'55" DRAINAGE AREA: 427.001 SQ MI (1105.93 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	34	7.57	4.99	0.00	16.00					
STREAMFLOW, MEAN DAILY, (CFS)	21	400.57	551.68	70.00	2260.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	21	164.05	45.27	85.00	226.00					
PH (STANDARD UNITS)	21			7.10	7.60					
BICARBONATE ION	21	60.48	17.28	26.00	86.00	21	0.36978	-0.18587	0.9687	4.40012
HARDNESS, TOTAL	21	74.52	20.98	38.00	108.00	21	0.45753	-0.53286	0.9873	3.41875
CALCIUM, DISSOLVED	21	18.19	5.51	10.00	28.00	21	0.11667	-0.94956	0.9586	1.60933
MAGNESIUM, DISSOLVED	21	7.03	2.19	2.90	10.00	21	0.03994	0.47607	0.8262	1.26495
SODIUM, DISSOLVED	21	3.57	1.20	1.60	5.30	21	0.02548	-0.61299	0.9645	0.32414
POTASSIUM, DISSOLVED	21	0.97	0.43	0.40	2.50	21	0.00531	0.09533	0.5631	0.36203
CHLORIDE, DISSOLVED	21	2.30	0.77	0.80	3.50	21	0.01423	-0.02989	0.8322	0.44051
SULFATE, DISSOLVED	21	28.90	8.87	14.00	43.00	21	0.18528	-1.48959	0.9456	2.96121
SILICA, DISSOLVED	21	7.35	1.57	4.80	9.80	21	0.09381	1.80524	0.9743	0.36279
BORON, DISSOLVED, UG/L	21	31.43	23.93	0.00	100.00					
DISSOLVED SOLIDS, ROE 180 DEG C	21	103.86	28.93	58.00	145.00	21	0.62138	1.92118	0.9724	6.92346
DISSOLVED SOLIDS, SUM OF CONST	21	99.62	27.91	51.00	140.00	21	0.61429	-1.15334	0.9965	2.38849

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ZINC (ZN), UG/L				19	170.00	420000.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07096000 NAME: ARKANSAS RIVER AT CANON CITY, CO.

LAT 38 26'02" LONG 105 15'24" DRAINAGE AREA: 3117 SQ MI (8073.03 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	200	9.35	6.61	0.00	21.00					
STREAMFLOW, MEAN DAILY, (CFS)	187	679.21	676.33	145.00	4900.00					
STREAMFLOW (CUBIC FT/SEC)	39	681.54	721.79	184.00	3600.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	159	272.13	70.85	120.00	544.00					
OXYGEN, DISSOLVED	55	9.66	1.64	7.20	12.50					
PH (STANDARD UNITS)	152			6.60	8.90					
BICARBONATE ION	128	126.80	34.41	55.00	190.00	128	0.46122	-0.23218	0.9613	9.51279
NITRITE + NITRATE, DISSOLVED AS N	70	0.16	0.12	0.00	0.60					
ORTHOPHOSPHATE, DISSOLVED AS P	70	0.02	0.02	0.00	0.09					
HARDNESS, TOTAL	128	120.45	32.80	50.00	269.00	128	0.43982	-0.69188	0.9617	9.02831
CALCIUM, DISSOLVED	107	33.17	8.06	15.00	45.00	107	0.11353	2.59511	0.9637	2.16272
MAGNESIUM, DISSOLVED	107	8.46	2.89	3.10	22.00	107	0.03554	-1.11057	0.8405	1.57428
SODIUM, DISSOLVED	107	10.81	3.82	3.70	18.00	107	0.05411	-3.76694	0.9683	0.95862
POTASSIUM, DISSOLVED	93	1.78	0.52	0.70	3.40	93	0.00593	0.19606	0.7813	0.32854
CHLORIDE, DISSOLVED	127	6.57	2.92	1.60	15.00	127	0.03190	-2.20581	0.7857	1.81346
SULFATE, DISSOLVED	128	31.19	11.51	5.60	126.00	128	0.12698	-3.78135	0.7914	7.06273
SILICA, DISSOLVED	106	10.89	2.42	6.40	15.00	106	0.02993	2.84389	0.8480	1.29060
BORON, DISSOLVED, UG/L	32	27.81	22.96	0.00	80.00					
DISSOLVED SOLIDS, ROE 180 DEG C	60	179.48	46.50	86.00	364.00	60	0.62080	0.16472	0.9713	11.15243
DISSOLVED SOLIDS, SUM OF CONST	71	160.58	43.70	75.00	220.00	71	0.62219	-5.00496	0.9861	7.30411

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				59	0.00	230.00
MANGANESE (MN), UG/L				60	0.00	92.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07097000 NAME: ARKANSAS RIVER AT PORTLAND, CO.

LAT 38 23'18" LONG 105 00'56" DRAINAGE AREA: 4024 SQ MI (10422.2 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	36	13.85	5.45	1.50	22.00					
STREAMFLOW (CUBIC FT/SEC)	59	526.49	683.91	100.00	3670.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	20	504.70	172.04	160.00	900.00					
OXYGEN, DISSOLVED	20	9.55	2.21	6.30	13.80					
PH (STANDARD UNITS)	20			7.10	9.00					
BICARBONATE ION	20	145.10	42.59	57.00	210.00	20	0.22656	30.75683	0.9152	17.63890
NITRITE + NITRATE, DISSOLVED AS N	20	0.31	0.16	0.09	0.69					
ORTHOPHOSPHATE, DISSOLVED AS P	20	0.05	0.05	0.00	0.25					
HARDNESS, TOTAL	20	205.40	66.83	71.00	330.00	20	0.38319	12.00259	0.9864	11.29286
CALCIUM, DISSOLVED	20	54.25	16.73	20.00	85.00	20	0.09492	6.34141	0.9761	3.73206
MAGNESIUM, DISSOLVED	20	16.86	6.30	5.10	29.00	20	0.03595	-1.28508	0.9819	1.22693
SODIUM, DISSOLVED	20	25.36	10.12	5.00	42.00	20	0.05690	-3.36136	0.9674	2.63319
POTASSIUM, DISSOLVED	20	2.52	0.86	0.80	3.80	20	0.00379	0.60170	0.7623	0.56882
CHLORIDE, DISSOLVED	20	9.73	4.19	2.20	16.00	20	0.02218	-1.47048	0.9110	1.77537
SULFATE, DISSOLVED	20	119.85	47.34	27.00	210.00	20	0.26545	-14.12486	0.9646	12.82162
SILICA, DISSOLVED	20	10.64	2.30	7.10	15.00					
DISSOLVED SOLIDS, SUM OF CONST	20	314.65	106.65	96.00	500.00	20	0.60666	8.46937	0.9786	22.56116

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				20	10.00	150.00
MANGANESE (MN), UG/L				20	10.00	90.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07099200 NAME: ARKANSAS RIVER NEAR PORTLAND, CO.

LAT 38 20'14" LONG 104 56'18" DRAINAGE AREA: 4280 SQ MI (11085.2 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	365	11.68	7.00	0.00	24.50					
STREAMFLOW, MEAN DAILY, (CFS)	327	784.36	776.97	105.00	4820.00					
STREAMFLOW (CUBIC FT/SEC)	84	571.96	650.44	106.00	3680.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	201	508.28	170.84	180.00	950.00					
OXYGEN, DISSOLVED	85	9.70	2.09	5.90	13.80					
PH (STANDARD UNITS)	195			6.90	9.00					
BICARBONATE ION	169	150.08	39.60	60.00	212.00	168	0.21717	37.18374	0.9303	14.58445
NITRITE + NITRATE, DISSOLVED AS N	91	0.30	0.21	0.00	1.10					
ORTHOPHOSPHATE, DISSOLVED AS P	90	0.04	0.04	0.00	0.25					
HARDNESS, TOTAL	169	222.09	75.71	76.00	430.00	168	0.43567	-4.75668	0.9817	14.38379
CALCIUM, DISSOLVED	169	58.91	18.85	21.00	110.00	168	0.10799	2.70208	0.9757	4.13571
MAGNESIUM, DISSOLVED	169	18.30	7.26	5.10	38.00	168	0.04082	-2.96577	0.9607	2.00866
SODIUM, DISSOLVED	169	24.50	10.06	5.70	52.00	168	0.05670	-5.02452	0.9618	2.74935
POTASSIUM, DISSOLVED	164	2.44	0.69	1.10	4.50	163	0.00306	0.83831	0.7485	0.45805
CHLORIDE, DISSOLVED	169	8.63	3.69	1.30	18.00	168	0.01991	-1.73586	0.9231	1.41311
SULFATE, DISSOLVED	169	137.33	61.10	30.00	320.00	168	0.34689	-43.39903	0.9715	14.42699
SILICA, DISSOLVED	167	10.92	2.12	6.40	16.00	166	0.00670	7.44363	0.5362	1.78377
BORON, DISSOLVED, UG/L	84	50.20	40.42	0.00	250.00					
DISSOLVED SOLIDS, ROE 180 DEG C	75	362.12	126.15	126.00	627.00	75	0.75021	-40.60362	0.9942	13.69231
DISSOLVED SOLIDS, SUM OF CONST	129	331.69	122.67	107.00	642.00	128	0.69132	-22.62469	0.9785	25.23098

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
CADMIUM(CD), UG/L				2	0.00	0.00
IRON (FE), UG/L				82	0.00	210.00
MANGANESE (MN), UG/L				81	0.00	120.00
SELENIUM (SE), UG/L				2	2.00	3.00
ZINC (ZN), UG/L				3	6000.00	9600.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07099400 NAME: ARKANSAS RIVER ABOVE PUEBLO, CO.

LAT 38 16'17" LONG 104 43'06" DRAINAGE AREA: 4670 SQ MI (12095.3 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	162	12.46	6.81	0.00	25.00					
STREAMFLOW, MEAN DAILY, (CFS)	150	616.17	580.41	54.00	2960.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	69	576.10	191.38	230.00	1020.00					
OXYGEN, DISSOLVED	9	9.49	1.59	7.20	12.10					
PH (STANDARD UNITS)	69			7.00	8.80					
BICARBONATE ION	60	163.87	37.37	84.00	212.00	60	0.17607	58.26618	0.8885	17.29656
NITRITE + NITRATE, DISSOLVED AS N	1	0.60	.	0.60	0.60					
HARDNESS, TOTAL	60	258.10	80.99	100.00	420.00	60	0.42533	3.00067	0.9904	11.31735
CALCIUM, DISSOLVED	57	66.12	19.63	27.00	97.00	57	0.09859	7.59843	0.9600	5.54687
MAGNESIUM, DISSOLVED	57	22.37	8.94	7.30	46.00	57	0.04415	-3.83539	0.9437	2.98553
SODIUM, DISSOLVED	60	30.19	13.24	8.00	72.00	60	0.06766	-10.39589	0.9635	3.57540
POTASSIUM, DISSOLVED	57	2.64	0.60	1.30	4.00	57	0.00246	1.18055	0.7800	0.38010
CHLORIDE, DISSOLVED	60	9.71	4.11	1.10	19.00	60	0.02053	-2.60222	0.9415	1.39793
SULFATE, DISSOLVED	60	172.22	77.90	44.00	412.00	60	0.40477	-70.54773	0.9798	15.70760
SILICA, DISSOLVED	56	11.19	1.89	7.60	16.00	56	0.00423	8.65507	0.4169	1.73613
BORON, DISSOLVED, UG/L	56	47.74	40.11	0.02	200.00					
DISSOLVED SOLIDS, ROE 180 DEG C	60	413.53	143.02	139.00	769.00	60	0.75410	-38.74790	0.9943	15.36647
DISSOLVED SOLIDS, SUM OF CONST	35	381.51	145.64	135.00	623.00	35	0.73459	-42.40516	0.9965	12.27717

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07099500 NAME: ARKANSAS RIVER NEAR PUEBLO, CO.

LAT 38 16'02" LONG 104 39'26" DRAINAGE AREA: 4686 SQ MI (12136.7 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	34	13.39	6.76	1.50	24.00					
STREAMFLOW, MEAN DAILY, (CFS)	61	835.95	1031.06	46.00	3980.00					
STREAMFLOW (CUBIC FT/SEC)	1	400.00	.	400.00	400.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	46	575.28	179.32	254.00	959.00					
OXYGEN, DISSOLVED	9	9.49	1.23	8.10	11.50					
PH (STANDARD UNITS)	44			7.30	8.50					
BICARBONATE ION	42	153.07	37.33	80.00	209.00	42	0.16765	56.12488	0.8423	20.36887
HARDNESS, TOTAL	42	248.74	81.35	112.00	412.00	42	0.42952	0.35279	0.9903	11.41547
CALCIUM, DISSOLVED	42	66.24	17.65	34.00	95.00	42	0.09186	13.11506	0.9762	3.87252
MAGNESIUM, DISSOLVED	42	20.37	9.44	5.40	44.00	42	0.04889	-7.90422	0.9712	2.27701
SODIUM, DISSOLVED	42	29.62	14.04	7.00	63.00	42	0.07352	-12.89672	0.9820	2.68532
POTASSIUM, DISSOLVED	37	2.55	0.78	0.80	3.90	37	0.00359	0.45347	0.8879	0.36499
CHLORIDE, DISSOLVED	42	9.52	4.33	2.10	20.00	42	0.01956	-1.78698	0.8479	2.32181
SULFATE, DISSOLVED	42	168.24	78.53	47.00	369.00	42	0.41313	-70.66895	0.9867	12.90140
SILICA, DISSOLVED	42	9.39	3.41	1.40	15.00					
BORON, DISSOLVED, UG/L	34	55.59	24.52	0.00	130.00					
DISSOLVED SOLIDS, ROE 180 DEG C	37	406.68	153.16	162.00	740.00	37	0.78497	-51.43058	0.9929	18.50721
DISSOLVED SOLIDS, SUM OF CONST	5	315.00	94.84	177.00	396.00	5	0.65463	-37.84513	0.9914	14.29372

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				1	0.00	0.00
CADMIUM(CD), UG/L				3	0.00	0.00
IRON (FE), UG/L				2	10.00	30.00
LEAD (PB), UG/L				1	2.00	2.00
MANGANESE (MN), UG/L				2	10.00	30.00
MERCURY (HG), UG/L				2	0.00	0.10
SELENIUM (SE), UG/L				2	2.00	5.00
ZINC (ZN), UG/L				1	32.00	32.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07106500 NAME: FOUNTAIN CREEK AT PUEBLO, CO.

LAT 38 18'27" LONG 104 36'09" DRAINAGE AREA: 926.001 SQ MI (2398.34 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	89	15.02	7.93	0.00	29.50					
STREAMFLOW, MEAN DAILY, (CFS)	46	63.84	119.60	0.25	650.00					
STREAMFLOW (CUBIC FT/SEC)	10	48.38	35.74	0.10	100.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	114	2046.40	798.73	570.00	6000.00					
OXYGEN, DISSOLVED	11	8.30	1.48	6.30	11.00					
PH (STANDARD UNITS)	51			6.60	8.70					
BICARBONATE ION	56	268.93	55.94	116.00	342.00	56	0.03868	191.37061	0.5292	47.90598
NITRITE + NITRATE, DISSOLVED AS N	32	1.45	1.21	0.00	5.50					
ORTHOPHOSPHATE, DISSOLVED AS P	32	0.62	0.61	0.03	1.90					
HARDNESS, TOTAL	56	750.88	356.66	170.00	1820.00	56	0.46127	-174.103	0.9899	50.94339
CALCIUM, DISSOLVED	56	177.80	62.63	48.00	319.00	56	0.07783	21.73837	0.9512	19.49940
MAGNESIUM, DISSOLVED	56	74.46	51.04	12.00	249.00	56	0.06468	-55.23867	0.9700	12.51584
SODIUM, DISSOLVED	56	203.59	89.21	46.00	500.00	56	0.11483	-26.68029	0.9853	15.38379
POTASSIUM, DISSOLVED	56	6.86	1.35	4.30	12.00	56	0.00108	4.69348	0.6131	1.07412
CHLORIDE, DISSOLVED	56	57.63	16.97	13.00	95.00	56	0.01892	19.69264	0.8532	8.93233
SULFATE, DISSOLVED	56	845.48	460.68	160.00	2190.00	56	0.59449	-346.637	0.9878	72.48022
SILICA, DISSOLVED	53	13.24	2.94	5.70	21.00	53	-0.00247	18.17589	-0.6583	2.23230
BORON, DISSOLVED, UG/L	21	230.00	65.50	120.00	380.00					
DISSOLVED SOLIDS, ROE 180 DEG C	24	2174.33	798.63	674.00	4130.00	24	1.05493	-488.927	0.9931	95.48053
DISSOLVED SOLIDS, SUM OF CONST	32	1155.00	410.03	374.00	2340.00	32	0.80498	-145.669	0.9908	56.45710

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				32	10.00	90.00
MANGANESE (MN), UG/L				32	0.00	400.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07117000 NAME: ARKANSAS RIVER NEAR NEPESTA, CO.

LAT 38 11'03" LONG 104 10'22" DRAINAGE AREA: 9345 SQ MI (24203.5 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	39	14.47	6.79	2.00	27.00					
STREAMFLOW, MEAN DAILY, (CFS)	37	642.38	750.45	84.00	3820.00					
STREAMFLOW (CUBIC FT/SEC)	1	758.00	.	758.00	758.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	47	825.89	223.50	343.00	1200.00					
OXYGEN, DISSOLVED	10	7.39	0.79	6.20	8.40					
PH (STANDARD UNITS)	47			6.90	8.40					
BICARBONATE ION	41	165.39	34.13	99.00	234.00	41	0.12136	65.44213	0.8477	18.33426
HARDNESS, TOTAL	40	346.43	101.95	158.00	516.00	40	0.42274	0.33533	0.9926	12.57108
CALCIUM, DISSOLVED	30	88.83	25.19	47.00	124.00	30	0.09651	11.59052	0.9838	4.59233
MAGNESIUM, DISSOLVED	31	28.65	11.75	9.20	53.00	31	0.04383	-6.73694	0.9531	3.61911
SODIUM, DISSOLVED	31	47.38	20.74	12.00	89.90	31	0.07882	-16.25748	0.9714	5.00871
POTASSIUM, DISSOLVED	27	4.44	1.82	1.60	9.00	27	0.00561	-0.26181	0.7814	1.15823
CHLORIDE, DISSOLVED	41	18.63	7.47	4.50	31.00	41	0.02724	-3.81034	0.8700	3.72867
SULFATE, DISSOLVED	41	279.95	106.96	78.00	490.00	41	0.44409	-85.79695	0.9899	15.33766
SILICA, DISSOLVED	31	9.72	2.19	5.50	14.00					
BORON, DISSOLVED, UG/L	24	94.58	34.13	40.00	150.00					
DISSOLVED SOLIDS, ROE 180 DEG C	35	610.06	195.37	219.00	957.00	35	0.82367	-79.63880	0.9922	24.77510
DISSOLVED SOLIDS, SUM OF CONST	6	488.00	215.60	255.00	760.00	6	0.81650	-118.929	0.9959	21.91608

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
CADMIUM(CD), UG/L				2	0.00	0.00
IRON (FE), UG/L				2	20.00	20.00
MANGANESE (MN), UG/L				2	10.00	10.00
MERCURY (HG), UG/L				2	0.00	0.00
SELENIUM (SE), UG/L				2	3.00	6.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07119500 NAME: APISHAPA RIVER NEAR FOWLER, CO.

LAT 38 05'28" LONG 103 58'52" DRAINAGE AREA: 1125 SQ MI (2913.75 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY			
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	74	15.95	8.53	0.00	31.00					
STREAMFLOW, MEAN DAILY, (CFS)	51	13.35	20.01	0.60	105.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	97	2090.56	819.77	599.00	3800.00					
PH (STANDARD UNITS)	50			7.10	8.10					
BICARBONATE ION	51	215.75	43.71	116.00	322.00	51	0.03954	141.94510	0.6670	32.89606
HARDNESS, TOTAL	51	1006.41	505.49	278.00	1900.00	51	0.68027	-263.215	0.9922	63.73450
CALCIUM, DISSOLVED	37	276.54	147.43	81.00	539.00	37	0.18862	-76.32752	0.9713	35.53787
MAGNESIUM, DISSOLVED	37	78.27	38.89	15.00	148.00	37	0.05015	-15.54351	0.9789	8.05995
SODIUM, DISSOLVED	39	102.33	43.77	24.00	171.00	39	0.05268	3.91619	0.9351	15.72028
POTASSIUM, DISSOLVED	23	5.00	1.31	2.60	8.70					
CHLORIDE, DISSOLVED	51	32.91	12.40	8.50	53.00	51	0.01506	4.80178	0.8956	5.57063
SULFATE, DISSOLVED	51	984.20	544.30	185.00	1940.00	51	0.73315	-184.129	0.9931	64.57653
SILICA, DISSOLVED	37	12.20	2.35	5.70	18.00					
BORON, DISSOLVED, UG/L	20	202.00	117.90	70.00	460.00					
DISSOLVED SOLIDS, ROE 180 DEG C	51	1695.49	842.75	426.00	3210.00	51	1.13739	-427.285	0.9950	84.78612
DISSOLVED SOLIDS, SUM OF CONST	1	794.00		794.00	794.00	1	0.00000	794.00000	0.0000	0.00000

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 728

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	2890	2820	2750	2420	1740	1410	1150	1010	751

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07122000 NAME: ARKANSAS RIVER NEAR LA JUNTA, CO.

LAT 38 00'40" LONG 103 35'18"

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	51	12.34	8.70	0.00	30.50					
STREAMFLOW, MEAN DAILY, (CFS)	62	448.21	347.71	53.00	1600.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	66	1475.11	405.29	536.00	2440.00					
PH (STANDARD UNITS)	66			7.00	8.10					
BICARBONATE ION	66	223.71	39.48	121.00	288.00	66	0.08287	101.47075	0.8507	20.91474
NITRITE + NITRATE, DISSOLVED AS N	2	2.30	1.84	1.00	3.60					
ORTHOPHOSPHATE, DISSOLVED AS P	2	0.09	0.04	0.06	0.12					
HARDNESS, TOTAL	64	644.53	190.77	226.00	1130.00	64	0.46316	-34.20069	0.9896	27.63233
CALCIUM, DISSOLVED	39	153.05	44.29	67.00	281.00	39	0.10657	5.45467	0.9799	8.95400
MAGNESIUM, DISSOLVED	41	55.34	19.57	14.00	105.00	41	0.04712	-10.83285	0.9794	3.99921
SODIUM, DISSOLVED	44	103.59	40.58	28.00	207.00	44	0.09371	-29.53047	0.9809	7.98057
POTASSIUM, DISSOLVED	27	5.94	1.50	2.70	8.20	27	0.00273	2.09849	0.8242	0.86458
CHLORIDE, DISSOLVED	66	33.35	12.19	9.40	61.00	66	0.02789	-7.79463	0.9273	4.59937
SULFATE, DISSOLVED	66	637.80	226.53	163.00	1250.00	66	0.55357	-178.77	0.9904	31.58232
SILICA, DISSOLVED	41	11.94	1.62	6.80	16.00					
BORON, DISSOLVED, UG/L	24	176.25	59.40	90.00	360.00					
DISSOLVED SOLIDS, ROE 180 DEG C	62	1188.42	395.39	361.00	2240.00	62	0.95794	-208.584	0.9951	39.26668
DISSOLVED SOLIDS, SUM OF CONST	6	1338.33	143.03	1170.00	1560.00					

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 598

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	2560	2340	2040	1770	1520	1160	844	758	583

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				2	10.00	80.00
MANGANESE (MN), UG/L				2	160.00	290.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07124000 NAME: ARKANSAS RIVER AT LAS ANIMAS, CO.

LAT 38 04'51" LONG 103 13'09" DRAINAGE AREA: 14417 SQ MI (37340 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	82	18.00	10.23	0.00	34.00					
STREAMFLOW, MEAN DAILY, (CFS)	43	142.17	218.64	2.70	865.00					
STREAMFLOW (CUBIC FT/SEC)	12	40.43	69.21	6.00	252.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	135	2649.65	1017.06	680.00	4200.00					
PH (STANDARD UNITS)	51			7.20	8.20					
BICARBONATE ION	65	256.26	42.40	158.00	328.00	65	0.03633	154.64278	0.7571	27.91584
NITRITE + NITRATE, DISSOLVED AS N	1	0.77	.	0.77	0.77					
ORTHOPHOSPHATE, DISSOLVED AS P	1	0.01	.	0.01	0.01					
HARDNESS, TOTAL	65	1154.09	369.85	372.00	1650.00	65	0.41107	4.39752	0.9819	70.67566
CALCIUM, DISSOLVED	55	286.09	83.57	94.00	383.00	55	0.09420	18.06744	0.9573	24.39753
MAGNESIUM, DISSOLVED	55	110.91	39.87	26.00	173.00	55	0.04487	-16.75741	0.9558	11.83157
SODIUM, DISSOLVED	54	303.15	112.03	56.00	500.00	54	0.12820	-62.56340	0.9788	23.14405
POTASSIUM, DISSOLVED	31	5.65	1.00	3.70	8.50					
CHLORIDE, DISSOLVED	64	79.86	31.66	13.00	140.00	64	0.03378	-14.51878	0.9497	9.99651
SULFATE, DISSOLVED	65	1423.94	525.65	321.00	2140.00	65	0.59162	-230.723	0.9943	56.56897
SILICA, DISSOLVED	32	12.73	1.97	9.30	18.00					
BORON, DISSOLVED, UG/L	27	382.22	150.80	150.00	590.00					
DISSOLVED SOLIDS, ROE 180 DEG C	64	2377.66	829.59	648.00	3540.00	64	0.93451	-219.155	0.9893	121.74199
DISSOLVED SOLIDS, SUM OF CONST	1	3370.00	.	3370.00	3370.00	1	0.00000	3370	0.0000	0.00000

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				1	10.00	10.00
MANGANESE (MN), UG/L				1	60.00	60.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07128500 NAME: PURGATOIRE RIVER NEAR LAS ANIMAS, CO.

LAT 38 02'02" LONG 103 12'00" DRAINAGE AREA: 3503 SQ MI (9072.77 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	90	15.34	9.40	0.00	31.00					
STREAMFLOW, MEAN DAILY, (CFS)	58	128.04	441.22	0.80	2840.00					
STREAMFLOW (CUBIC FT/SEC)	6	22.95	23.55	1.90	67.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	116	3579.91	1277.48	1050.00	8000.00					
PH (STANDARD UNITS)	58			7.30	8.20					
BICARBONATE ION	58	268.95	53.19	162.00	434.00	58	0.03010	168.47609	0.6370	41.36447
HARDNESS, TOTAL	58	1431.72	492.17	480.00	2590.00	58	0.42762	4.58137	0.9777	104.17966
CALCIUM, DISSOLVED	44	308.18	87.63	128.00	531.00	44	0.07455	56.02129	0.9188	35.00421
MAGNESIUM, DISSOLVED	44	166.52	65.03	37.00	308.00	44	0.05864	-31.81492	0.9738	14.94916
SODIUM, DISSOLVED	58	385.24	175.37	58.00	721.00	58	0.15100	-118.696	0.9689	43.76344
POTASSIUM, DISSOLVED	26	6.15	0.97	4.50	8.10					
CHLORIDE, DISSOLVED	58	81.61	37.90	3.10	148.00	58	0.02925	-16.01969	0.8685	18.95582
SULFATE, DISSOLVED	58	1878.64	757.56	412.00	3070.00	58	0.66806	-350.949	0.9924	94.19589
SILICA, DISSOLVED	41	10.80	2.47	5.00	18.00	41	-0.00128	15.09423	-0.5683	2.05777
BORON, DISSOLVED, UG/L	28	283.93	124.00	0.17	500.00					
DISSOLVED SOLIDS, ROE 180 DEG C	56	3106.61	1197.66	797.00	5090.00	56	1.06004	-390.391	0.9969	94.62994
DISSOLVED SOLIDS, SUM OF CONST	3	3276.67	1117.15	1990.00	4000.00	3	0.95809	-309.798	0.9977	106.36367

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 730

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	5050	4730	4560	4100	3480	2690	1430	1160	936

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07130500 NAME: ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO.

LAT 38 05'02" LONG 102 55'10" DRAINAGE AREA: 18915 SQ MI (48989.8 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY			
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	157	14.57	7.56	1.00	30.00					
STREAMFLOW, MEAN DAILY, (CFS)	666	265.14	343.15	1.33	3110.00					
STREAMFLOW (CUBIC FT/SEC)	56	187.95	324.88	0.50	1080.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	775	2746.68	1101.47	476.00	7000.00					
OXYGEN, DISSOLVED	73	9.98	1.95	6.60	14.00					
PH (STANDARD UNITS)	727			6.60	8.80					
BICARBONATE ION	711	255.97	85.55	114.00	644.00	710	0.05490	106.08138	0.6902	61.99499
NITRITE + NITRATE, DISSOLVED AS N	82	1.05	0.79	0.01	4.00					
ORTHOPHOSPHATE, DISSOLVED AS P	77	0.02	0.02	0.00	0.08					
HARDNESS, TOTAL	708	1101.93	434.35	224.00	1910.00	707	0.40017	2.30958	0.9922	54.28868
CALCIUM, DISSOLVED	502	268.28	88.49	65.00	488.00	501	0.08117	34.70580	0.9675	22.39398
MAGNESIUM, DISSOLVED	491	117.74	52.18	15.00	219.00	490	0.04798	-20.19086	0.9686	12.98595
SODIUM, DISSOLVED	535	306.06	148.56	49.00	653.00	534	0.13725	-84.53351	0.9817	28.32683
POTASSIUM, DISSOLVED	142	7.42	1.30	3.10	11.00	141	0.00060	5.60151	0.4902	1.14108
CHLORIDE, DISSOLVED	496	81.07	43.21	2.00	200.00	495	0.03813	-23.33197	0.9562	12.66196
SULFATE, DISSOLVED	497	1362.21	628.65	91.00	2640.00	496	0.57611	-215.68	0.9923	77.85105
SILICA, DISSOLVED	258	13.97	6.10	3.90	58.00	257	0.00150	9.47447	0.2599	5.91632
BORON, DISSOLVED, UG/L	54	257.86	241.08	0.16	880.00					
DISSOLVED SOLIDS, ROE 180 DEG C	636	2351.92	1055.63	296.00	4530.00	636	0.98637	-305.488	0.9951	104.41578
DISSOLVED SOLIDS, SUM OF CONST	99	2528.45	946.85	486.00	4070.00	98	0.86208	-143.091	0.9871	152.25631

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 8926

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	4640	4400	4150	3780	3040	1800	1300	1050	820

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				77	0.00	150.00
MANGANESE (MN), UG/L				89	0.00	3900.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07133000 NAME: ARKANSAS RIVER AT LAMAR, CO.

LAT 38 06'24" LONG 102 37'04" DRAINAGE AREA: 19780 SQ MI (51230.2 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	144	14.31	8.11	0.00	31.00					
STREAMFLOW, MEAN DAILY, (CFS)	92	111.50	369.45	0.50	2500.00					
STREAMFLOW (CUBIC FT/SEC)	1	1.00	.	1.00	1.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	163	3720.66	1365.22	560.00	6500.00					
OXYGEN, DISSOLVED	32	9.52	1.56	6.20	12.00					
PH (STANDARD UNITS)	96			7.10	8.80					
BICARBONATE ION	67	286.79	54.79	129.00	390.00	65	0.03799	133.09191	0.7673	35.51134
NITRITE + NITRATE, DISSOLVED AS N	24	2.39	1.73	0.03	5.70					
ORTHOPHOSPHATE, DISSOLVED AS P	1	0.01	.	0.01	0.01					
HARDNESS, TOTAL	48	1480.46	465.57	350.00	2000.00	46	0.37232	33.95423	0.9753	106.11784
CALCIUM, DISSOLVED	49	323.84	92.04	91.00	430.00	47	0.07272	40.71499	0.9556	27.89434
MAGNESIUM, DISSOLVED	49	163.47	56.66	22.00	225.00	47	0.04602	-15.49128	0.9807	11.41015
SODIUM, DISSOLVED	29	481.52	204.18	57.00	660.00	29	0.15778	-103.711	0.9915	27.06851
POTASSIUM, DISSOLVED	30	8.21	1.69	5.80	14.00	30	0.00082	5.15797	0.6180	1.34851
CHLORIDE, DISSOLVED	66	127.52	43.91	11.00	171.00	64	0.03703	-18.90240	0.9532	13.57815
SULFATE, DISSOLVED	66	2141.21	698.15	299.00	2720.00	64	0.59139	-191.715	0.9761	152.83578
SILICA, DISSOLVED	28	13.05	2.86	8.90	22.00					
BORON, DISSOLVED, UG/L	21	602.38	286.72	80.00	950.00					
DISSOLVED SOLIDS, ROE 180 DEG C	49	3552.78	1193.30	617.00	5080.00	47	0.98043	-233.203	0.9803	243.36080
DISSOLVED SOLIDS, SUM OF CONST	3	3906.67	350.05	3560.00	4260.00					

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				1	20.00	20.00
MANGANESE (MN), UG/L				1	230.00	230.00
MERCURY (HG), UG/L				1	0.50	0.50

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 07137500 NAME: ARKANSAS RIVER NEAR COOLIDGE, KANS.

LAT 38 01'34" LONG 102 00'41" DRAINAGE AREA: 25410 SQ MI (65811.9 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	258	15.09	9.09	0.00	32.00					
STREAMFLOW, MEAN DAILY, (CFS)	347	281.16	824.67	0.10	10500.00					
STREAMFLOW (CUBIC FT/SEC)	78	100.69	222.19	1.60	1750.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	265	3750.17	1137.69	475.00	6500.00					
OXYGEN, DISSOLVED	83	9.55	1.94	5.60	13.00					
PH (STANDARD UNITS)	213			7.00	8.80					
BICARBONATE ION	166	251.87	45.33	132.00	344.00	163	0.02803	145.34321	0.6532	34.62899
NITRITE + NITRATE, DISSOLVED AS N	38	2.28	0.98	0.10	3.90					
ORTHOPHOSPHATE, DISSOLVED AS P	15	0.03	0.01	0.01	0.06					
HARDNESS, TOTAL	169	1420.67	388.02	194.00	1900.00	167	0.35298	85.04983	0.9674	98.50068
CALCIUM, DISSOLVED	130	349.22	70.57	115.00	450.00	127	0.07338	52.79407	0.9220	27.16907
MAGNESIUM, DISSOLVED	130	158.37	36.54	33.00	203.00	127	0.03609	12.45257	0.8790	17.26229
SODIUM, DISSOLVED	112	483.06	159.85	27.00	660.00	111	0.14354	-68.50668	0.9593	45.48450
POTASSIUM, DISSOLVED	81	10.96	2.27	5.30	17.00	81	0.00097	7.02967	0.4060	2.08665
CHLORIDE, DISSOLVED	172	137.16	53.13	5.40	228.00	169	0.04237	-23.20628	0.8406	28.90985
SULFATE, DISSOLVED	170	1981.83	616.47	116.00	2720.00	167	0.55457	-109.798	0.9641	162.49803
SILICA, DISSOLVED	94	13.86	2.97	5.40	23.00	94	0.00115	9.26929	0.3700	2.77208
BORON, DISSOLVED, UG/L 1020	25	499.20	135.71	120.00	680.00					
DISSOLVED SOLIDS, ROE 180 DEG C	127	3476.46	968.03	773.00	4660.00	126	0.95200	-168.483	0.9717	229.60108
DISSOLVED SOLIDS, SUM OF CONST	62	3466.58	768.04	968.00	4300.00	62	0.72180	456.07824	0.8866	358.26371

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 163

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	6710	6570	6260	4520	3710	1920	1350	1050	584

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				14	0.00	4.00
CADMIUM(CD), UG/L				13	0.00	6.00
CHROMIUM (CR), UG/L				14	0.00	20.00
COPPER (CU), UG/L				14	0.00	8.00
IRON (FE), UG/L				14	0.00	230.00
LEAD (PB), UG/L				13	0.00	16.00
MANGANESE (MN), UG/L				15	0.00	150.00
MERCURY (HG), UG/L				14	0.00	2.30
SELENIUM (SE), UG/L				14	8.00	30.00
ZINC (ZN), UG/L				14	0.00	30.00

STATISTICAL SUMMARY OF WATER QUALITY DATA
STATION NUMBER: 08249200 NAME: RIO GRANDE ABOVE CULEBRA CREEK, NR LOBATOS, CO.

LAT 37 16'00" LONG 105 44'00"

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	30	10.30	8.49	0.00	25.00					
STREAMFLOW, MEAN DAILY, (CFS)	540	333.14	475.55	3.00	3230.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	501	420.06	161.64	135.00	960.00					
PH (STANDARD UNITS)	492			6.60	8.90					
BICARBONATE ION	533	142.04	43.59	26.00	321.00	501	0.20594	56.68802	0.7664	27.92882
HARDNESS, TOTAL	502	134.07	47.15	44.00	296.00	501	0.28425	14.55944	0.9749	10.50907
CALCIUM, DISSOLVED	540	40.04	14.05	13.00	88.00	501	0.08201	6.03366	0.9563	4.05476
MAGNESIUM, DISSOLVED	540	7.89	3.38	1.00	20.00	501	0.01952	-0.22416	0.9414	1.13184
SODIUM, DISSOLVED	514	36.08	19.85	8.20	183.00	482	0.11175	-10.91529	0.9615	5.18309
POTASSIUM, DISSOLVED	41	5.66	2.17	2.50	14.00	41	0.01078	1.39167	0.9126	0.90071
CHLORIDE, DISSOLVED	69	9.71	6.61	1.50	33.00	69	0.03661	-4.60957	0.9616	1.82868
SULFATE, DISSOLVED	69	76.09	56.67	15.00	296.00	69	0.31160	-45.74674	0.9546	17.00489
SILICA, DISSOLVED	75	30.79	9.90	9.30	68.00	68	0.01389	25.21541	0.2467	9.48433
BORON, DISSOLVED, UG/L	41	104.63	64.77	20.00	270.00					
DISSOLVED SOLIDS, ROE 180 DEG C	479	298.83	115.30	99.00	805.00	478	0.69150	5.46630	0.9931	13.30710
DISSOLVED SOLIDS, SUM OF CONST	22	239.36	93.86	119.00	492.00	22	0.66760	-5.03861	0.9983	5.59591

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 6877

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	889	691	605	490	361	271	233	212	160

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				3	20.00	30.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 08251500 NAME: RIO GRANDE NEAR LOBATOS, CO.

LAT 37 04'42" LONG 105 45'22" DRAINAGE AREA: 7700 SQ MI (19943 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	150	10.07	8.15	0.00	27.00					
STREAMFLOW, MEAN DAILY, (CFS)	113	428.34	454.66	18.00	3140.00					
STREAMFLOW (CUBIC FT/SEC)	125	661.32	1203.44	12.00	6872.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	199	357.58	183.44	150.00	1010.00					
OXYGEN, DISSOLVED	76	9.67	1.88	6.00	14.00					
PH (STANDARD UNITS)	196			6.40	8.80					
BICARBONATE ION	162	114.86	36.10	34.00	215.00	157	0.17974	50.16167	0.8874	16.50633
NITRITE + NITRATE, DISSOLVED AS N	35	0.13	0.15	0.00	0.60					
ORTHOPHOSPHATE, DISSOLVED AS P	25	0.08	0.05	0.00	0.21					
HARDNESS, TOTAL	150	115.47	53.92	49.00	340.00	147	0.28622	13.44305	0.9828	9.48195
CALCIUM, DISSOLVED	149	34.41	15.58	15.00	98.00	147	0.08218	5.08275	0.9775	3.12265
MAGNESIUM, DISSOLVED	149	7.20	3.79	2.70	24.00	147	0.01967	0.17151	0.9734	0.81644
SODIUM, DISSOLVED	130	27.25	18.66	9.10	100.00	130	0.10972	-10.77197	0.9699	4.55789
POTASSIUM, DISSOLVED	129	4.80	1.75	1.70	11.00	129	0.00740	2.22631	0.7009	1.25159
CHLORIDE, DISSOLVED	166	9.08	6.41	2.30	33.00	161	0.03526	-3.47343	0.9745	1.42264
SULFATE, DISSOLVED	164	72.91	60.90	18.00	320.00	159	0.32567	-43.70805	0.9764	12.68116
SILICA, DISSOLVED	130	28.22	5.94	16.00	41.00	130	0.01051	24.58679	0.2925	5.69922
DISSOLVED SOLIDS, ROE 180 DEG C	137	250.23	130.27	80.00	712.00	134	0.68918	-1.35177	0.9912	16.60770
DISSOLVED SOLIDS, SUM OF CONST	56	218.05	106.22	102.00	642.00	56	0.71065	-13.50482	0.9843	18.92133

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 978

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	834	731	654	461	336	258	220	194	155

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				15	1.00	5.00
CADMIUM(CD), UG/L				15	0.00	2.00
CHROMIUM (CR), UG/L				15	0.00	10.00
COPPER (CU), UG/L				15	0.00	2.00
IRON (FE), UG/L				26	10.00	120.00
LEAD (PB), UG/L				15	0.00	5.00
MANGANESE (MN), UG/L				26	0.00	130.00
MERCURY (HG), UG/L				15	0.00	1.00
SELENIUM (SE), UG/L				15	0.00	1.00
ZINC (ZN), UG/L				14	0.00	20.00

STATISTICAL SUMMARY OF WATER QUALITY DATA
STATION NUMBER: 09013000 NAME: ALVA B ADAMS TUN AT E PORTAL, NR ESTES PARK, CO.

LAT 40 19'40" LONG 105 34'39"

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	91	6.85	5.12	1.50	17.00					
STREAMFLOW, MEAN DAILY, (CFS)	55	414.23	140.52	0.00	552.00					
STREAMFLOW (CUBIC FT/SEC)	42	457.48	113.43	7.20	551.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	63	55.63	11.66	18.00	90.00					
OXYGEN, DISSOLVED	91	8.19	0.64	6.60	9.70					
PH (STANDARD UNITS)	90			6.20	8.70					
BICARBONATE ION	22	23.82	6.26	7.00	33.00	22	0.51432	-0.83411	0.9373	2.23631
NITRITE + NITRATE, DISSOLVED AS N	22	0.08	0.06	0.00	0.21					
ORTHOPHOSPHATE, DISSOLVED AS P	22	0.01	0.02	0.00	0.10					
HARDNESS, TOTAL	22	20.50	4.88	6.00	28.00	22	0.40899	0.89618	0.9569	1.45159
CALCIUM, DISSOLVED	22	6.31	1.43	1.80	8.10	22	0.11900	0.60520	0.9472	0.47116
MAGNESIUM, DISSOLVED	22	1.17	0.34	0.30	1.80	22	0.02741	-0.14579	0.9238	0.13286
SODIUM, DISSOLVED	22	1.99	0.40	0.90	2.50	22	0.02210	0.93141	0.6345	0.31482
POTASSIUM, DISSOLVED	22	0.67	0.16	0.20	0.90	22	0.01215	0.09055	0.8460	0.08952
CHLORIDE, DISSOLVED	22	0.43	0.11	0.20	0.70	22	0.00697	0.09790	0.7040	0.08217
SULFATE, DISSOLVED	22	4.34	1.73	1.30	7.80					
SILICA, DISSOLVED	21	4.29	0.70	3.00	5.70					
DISSOLVED SOLIDS, ROE 180 DEG C	1	40.00	.	40.00	40.00	1	0.00000	40.00000	0.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	21	31.33	5.94	16.00	41.00	21	0.46921	9.00115	0.9154	2.45210

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
CADMIUM(CD), UG/L				1	1.00	1.00
COPPER (CU), UG/L				1	0.00	0.00
IRON (FE), UG/L				22	20.00	250.00
LEAD (PB), UG/L				1	3.00	3.00
MANGANESE (MN), UG/L				22	0.00	20.00
ZINC (ZN), UG/L				1	0.00	0.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09019000 NAME: COLORADO RIVER BELOW LAKE GRANBY, CO.

LAT 40 08'39" LONG 105 52'00" DRAINAGE AREA: 312.001 SQ MI (808.083 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	61	6.02	3.07	1.50	16.00					
STREAMFLOW, MEAN DAILY, (CFS)	49	58.81	97.28	9.83	433.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	60	60.34	7.41	50.00	100.00					
OXYGEN, DISSOLVED	21	9.27	0.70	8.10	10.50					
PH (STANDARD UNITS)	49			6.10	8.40					
BICARBONATE ION	28	31.25	2.05	26.00	35.00					
NITRITE + NITRATE, DISSOLVED AS N	12	0.10	0.04	0.04	0.19					
ORTHOPHOSPHATE, DISSOLVED AS P	12	0.01	0.01	0.00	0.02					
HARDNESS, TOTAL	28	24.79	3.25	21.00	35.00					
CALCIUM, DISSOLVED	28	7.46	1.12	6.30	12.00					
MAGNESIUM, DISSOLVED	28	1.50	0.49	0.80	2.90					
SODIUM, DISSOLVED	28	2.55	0.63	1.80	5.60					
POTASSIUM, DISSOLVED	28	0.87	0.12	0.70	1.10					
CHLORIDE, DISSOLVED	28	1.29	0.90	0.20	5.00	28	0.17393	-8.70031	0.7085	0.64708
SULFATE, DISSOLVED	28	3.98	1.26	1.40	6.60					
SILICA, DISSOLVED	12	6.08	0.53	5.30	7.00					
1020	1	50.00	.	50.00	50.00					
DISSOLVED SOLIDS, ROE 180 DEG C	17	44.94	7.13	30.00	64.00	17	1.19366	-24.15087	0.7126	5.16445
DISSOLVED SOLIDS, SUM OF CONST	28	35.79	3.50	30.00	44.00					

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09034500 NAME: COLORADO RIVER AT HOT SULPHUR SPRINGS, CO.

LAT 40 05'00" LONG 106 05'15" DRAINAGE AREA: 825.001 SQ MI (2136.75 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	139	6.31	6.36	0.00	20.50					
STREAMFLOW, MEAN DAILY, (CFS)	697	332.13	528.95	37.70	4166.00					
STREAMFLOW (CUBIC FT/SEC)	43	174.37	210.91	43.00	1100.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	743	131.40	28.43	52.00	279.00					
OXYGEN, DISSOLVED	91	9.56	1.11	7.20	11.80					
PH (STANDARD UNITS)	696			6.20	8.70					
BICARBONATE ION	667	72.35	16.41	26.00	141.00	665	0.54756	0.34489	0.9552	4.84641
NITRITE + NITRATE, DISSOLVED AS N	94	0.10	0.10	0.00	0.71					
ORTHOPHOSPHATE, DISSOLVED AS P	93	0.04	0.11	0.00	0.90					
HARDNESS, TOTAL	665	53.94	11.81	20.00	98.00	663	0.37891	4.09903	0.9189	4.65156
CALCIUM, DISSOLVED	574	16.44	3.72	5.80	27.00	572	0.11994	0.82967	0.9044	1.58665
MAGNESIUM, DISSOLVED	572	3.02	0.86	0.20	7.50	570	0.02084	0.31234	0.6784	0.63265
SODIUM, DISSOLVED	479	6.40	2.30	1.50	34.00	476	0.05858	-1.28347	0.7197	1.59827
POTASSIUM, DISSOLVED	434	1.85	0.89	0.80	5.90					
CHLORIDE, DISSOLVED	665	1.79	1.02	0.10	11.00	664	0.01541	-0.23453	0.4321	0.91747
SULFATE, DISSOLVED	664	6.73	2.87	1.00	26.00	663	0.04256	1.12549	0.4223	2.60824
SILICA, DISSOLVED	523	12.43	1.96	5.60	22.00	522	0.03625	7.72329	0.5210	1.67492
BORON, DISSOLVED, UG/L	226	25.22	31.06	0.00	220.00					
DISSOLVED SOLIDS, ROE 180 DEG C	594	87.68	17.70	38.00	172.00	591	0.56993	12.97429	0.9539	5.28820
DISSOLVED SOLIDS, SUM OF CONST	114	87.84	14.75	49.00	165.00	114	0.52328	17.47661	0.8744	7.18780

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 8841

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	200	173	165	153	141	124	97	82	64

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				365	0.00	570.00
MANGANESE (MN), UG/L				81	0.00	70.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09049200 NAME: WEST TENMILE CREEK AT COPPER MOUNTAIN, CO.

LAT 39 30'01" LONG 106 09'56" DRAINAGE AREA: 21.001 SQ MI (54.3926 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	75	5.29	4.71	0.00	18.00					
STREAMFLOW, MEAN DAILY, (CFS)	23	42.53	54.71	3.00	240.00					
STREAMFLOW (CUBIC FT/SEC)	42	66.37	90.65	2.20	334.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	73	138.92	48.76	65.00	220.00					
OXYGEN, DISSOLVED	1	9.30	.	9.30	9.30					
PH (STANDARD UNITS)	55			6.90	8.30					
BICARBONATE ION	13	97.85	22.11	53.00	117.00	12	0.51681	11.35281	0.9075	9.95575
NITRITE + NITRATE, DISSOLVED AS N	59	1.14	3.45	0.00	19.00					
ORTHOPHOSPHATE, DISSOLVED AS P	61	0.01	0.08	0.00	0.59					
HARDNESS, TOTAL	68	72.15	24.54	25.00	140.00	66	0.44302	8.95728	0.8888	11.11491
CALCIUM, DISSOLVED	68	25.34	8.60	9.30	50.00	66	0.15501	3.22603	0.8859	3.94949
MAGNESIUM, DISSOLVED	68	2.15	0.81	0.40	3.60	66	0.01414	0.14150	0.8688	0.39223
SODIUM, DISSOLVED	14	2.13	0.66	1.20	3.30	13	0.00975	0.58521	0.5932	0.52623
POTASSIUM, DISSOLVED	13	0.58	0.19	0.40	1.00					
CHLORIDE, DISSOLVED	65	2.25	2.13	0.20	10.00	63	0.02443	-1.21173	0.5549	1.79967
SULFATE, DISSOLVED	12	4.37	0.48	3.50	5.30	11	0.00841	3.01405	0.6949	0.37970
SILICA, DISSOLVED	13	5.76	0.64	4.80	7.20	12	0.01030	4.08471	0.6189	0.54400
DISSOLVED SOLIDS, ROE 180 DEG C	53	84.26	27.52	42.00	162.00	52	0.49148	16.81444	0.8817	13.05881
DISSOLVED SOLIDS, SUM OF CONST	11	94.00	21.40	55.00	115.00	10	0.46792	16.91701	0.9125	9.66700

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				13	10.00	80.00
MANGANESE (MN), UG/L				13	0.00	50.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09066050 NAME: BLACK GORE CREEK NEAR VAIL, CO.

LAT 39 37'24" LONG 106 16'47" DRAINAGE AREA: 19.601 SQ MI (50.7665 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	61	4.97	4.40	0.00	16.00					
STREAMFLOW, MEAN DAILY, (CFS)	21	43.40	51.24	2.90	178.00					
STREAMFLOW (CUBIC FT/SEC)	37	48.05	62.54	2.50	224.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	63	166.95	49.72	80.00	260.00					
OXYGEN, DISSOLVED	1	10.00	.	10.00	10.00					
PH (STANDARD UNITS)	48			7.00	8.60					
BICARBONATE ION	13	107.54	19.84	64.00	122.00	13	0.51814	13.23614	0.9127	8.47137
NITRITE + NITRATE, DISSOLVED AS N	55	0.83	2.40	0.00	12.00					
ORTHOPHOSPHATE, DISSOLVED AS P	57	0.02	0.08	0.00	0.60					
HARDNESS, TOTAL	63	82.40	21.81	44.00	120.00	63	0.39565	16.34271	0.9020	9.49188
CALCIUM, DISSOLVED	63	27.57	7.39	15.00	39.00	63	0.13372	5.24663	0.9003	3.24033
MAGNESIUM, DISSOLVED	63	3.27	0.83	1.50	4.80	63	0.01497	0.76541	0.8947	0.37461
SODIUM, DISSOLVED	14	2.86	0.79	1.60	4.50	14	0.01784	-0.41104	0.7710	0.52298
POTASSIUM, DISSOLVED	13	0.71	0.18	0.50	1.00					
CHLORIDE, DISSOLVED	62	2.96	2.88	0.10	14.00	62	0.03289	-2.51909	0.5721	2.37927
SULFATE, DISSOLVED	14	3.85	0.67	2.60	5.50					
SILICA, DISSOLVED	13	5.72	0.48	5.10	6.40					
DISSOLVED SOLIDS, ROE 180 DEG C	49	95.43	28.29	54.00	151.00	49	0.47695	17.68595	0.8938	12.82395
DISSOLVED SOLIDS, SUM OF CONST	13	102.85	17.86	64.00	121.00	13	0.47326	16.71273	0.9259	7.04667

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				13	10.00	100.00
MANGANESE (MN), UG/L				13	0.00	40.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09066250 NAME: GORE CREEK AT VAIL, CO.

LAT 39 38'35" LONG 106 20'44" DRAINAGE AREA: 55.001 SQ MI (142.453 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	69	5.32	4.67	0.00	19.00					
STREAMFLOW, MEAN DAILY, (CFS)	28	126.94	160.03	6.40	672.00					
STREAMFLOW (CUBIC FT/SEC)	35	170.60	238.26	5.00	1240.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	68	115.91	41.18	50.00	200.00					
OXYGEN, DISSOLVED	4	8.32	1.02	7.50	9.80					
PH (STANDARD UNITS)	49			6.90	8.60					
BICARBONATE ION	14	77.21	20.62	32.00	97.00	14	0.57732	0.05991	0.9926	2.61249
NITRITE + NITRATE, DISSOLVED AS N	63	1.15	4.12	0.00	29.00					
ORTHOPHOSPHATE, DISSOLVED AS P	65	0.00	0.01	0.00	0.03					
HARDNESS, TOTAL	70	56.97	19.92	21.00	93.00	67	0.45100	4.31073	0.9249	7.64058
CALCIUM, DISSOLVED	70	18.12	6.60	6.40	31.00	67	0.14705	0.85404	0.9196	2.58767
MAGNESIUM, DISSOLVED	71	2.82	0.99	0.40	4.40	68	0.02038	0.51707	0.8848	0.44522
SODIUM, DISSOLVED	15	1.96	0.58	0.80	2.80	15	0.01433	0.03580	0.8493	0.31659
POTASSIUM, DISSOLVED	14	0.64	0.20	0.30	1.00	14	0.00451	0.03315	0.7901	0.12908
CHLORIDE, DISSOLVED	71	1.64	1.47	0.00	7.10	68	0.02137	-0.81878	0.5905	1.21205
SULFATE, DISSOLVED	14	3.84	0.54	3.00	4.80	14	0.00863	2.68275	0.5709	0.45788
SILICA, DISSOLVED	14	4.81	0.80	2.60	6.10	14	0.01683	2.56550	0.7504	0.54698
DISSOLVED SOLIDS, ROE 180 DEG C	54	63.83	22.20	32.00	117.00	51	0.46523	14.10831	0.8589	11.57312
DISSOLVED SOLIDS, SUM OF CONST	13	73.92	19.30	32.00	93.00	13	0.52304	4.55991	0.9941	2.19512

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				14	10.00	190.00
MANGANESE (MN), UG/L				14	0.00	10.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09069000 NAME: EAGLE RIVER AT GYPSUM, CO.

LAT 39 39'00" LONG 106 57'06" DRAINAGE AREA: 844.001 SQ MI (2185.96 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	140	7.34	5.48	0.00	18.00					
STREAMFLOW, MEAN DAILY, (CFS)	746	642.47	795.86	118.00	4640.00					
STREAMFLOW (CUBIC FT/SEC)	44	545.84	715.68	138.00	2860.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	790	778.25	353.28	168.00	1640.00					
DXYGEN, DISSOLVED	89	10.10	1.30	7.60	12.80					
PH (STANDARD UNITS)	636			6.80	8.60					
BICARBONATE ION	617	146.32	41.98	55.00	300.00	617	0.11297	60.51432	0.9439	13.87521
NITRITE + NITRATE, DISSOLVED AS N	88	0.32	0.18	0.02	0.69					
ORTHOPHOSPHATE, DISSOLVED AS P	88	0.02	0.02	0.00	0.10					
HARDNESS, TOTAL	617	296.11	134.43	71.00	970.00	617	0.37187	14.38247	0.9684	33.54038
CALCIUM, DISSOLVED	448	92.31	42.41	22.00	308.00	448	0.11375	2.83124	0.9558	12.48806
MAGNESIUM, DISSOLVED	448	18.60	8.43	2.20	49.00	448	0.02228	1.07713	0.9419	2.83369
SODIUM, DISSOLVED	392	47.73	29.91	3.40	131.00	392	0.07871	-13.56340	0.9264	11.27922
POTASSIUM, DISSOLVED	304	2.83	1.31	0.60	6.90	304	0.00272	0.71247	0.7352	0.89235
CHLORIDE, DISSOLVED	620	65.29	43.52	3.00	184.00	620	0.11269	-20.58128	0.9109	17.97549
SULFATE, DISSOLVED	619	183.03	104.46	21.00	786.00	619	0.28342	-33.19205	0.9535	31.50546
SILICA, DISSOLVED	445	8.84	2.67	3.50	36.00	445	0.00487	5.02157	0.6492	2.03691
BORON, DISSOLVED, UG/L	220	35.00	39.53	0.00	410.00					
DISSOLVED SOLIDS, ROE 180 DEG C	653	508.03	246.53	100.00	1130.00	653	0.69078	-27.03437	0.9953	23.91956
DISSOLVED SOLIDS, SUM OF CONST	105	505.90	231.61	103.00	1370.00	105	0.69772	-39.79520	0.9817	44.35546

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE =10272

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1400	1250	1180	1050	900	507	252	210	175

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				163	0.00	260.00
MANGANESE (MN), UG/L				78	20.00	620.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09070500 NAME: COLORADO RIVER NEAR DOTSERO, CO.

LAT 39 38'40" LONG 107 04'40" DRAINAGE AREA: 4394 SQ MI (11380.5 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	85	7.62	6.43	0.00	23.00					
STREAMFLOW, MEAN DAILY, (CFS)	132	2458.19	2382.31	620.00	13500.00					
STREAMFLOW (CUBIC FT/SEC)	65	2008.48	1511.31	541.00	7420.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	125	425.31	120.73	160.00	750.00					
OXYGEN, DISSOLVED	43	10.07	1.54	7.60	14.00					
PH (STANDARD UNITS)	123			6.90	8.90					
BICARBONATE ION	112	120.90	17.63	85.00	160.00	111	0.12189	68.00438	0.8429	9.52261
NITRITE + NITRATE, DISSOLVED AS N	44	0.11	0.07	0.00	0.25					
ORTHOPHOSPHATE, DISSOLVED AS P	43	0.01	0.01	0.00	0.04					
HARDNESS, TOTAL	113	168.19	43.67	83.00	350.00	112	0.34195	19.74920	0.9497	13.74518
CALCIUM, DISSOLVED	111	50.38	13.89	24.00	120.00	110	0.10564	4.33162	0.9208	5.44921
MAGNESIUM, DISSOLVED	111	10.47	2.88	4.10	19.00	110	0.01928	2.07535	0.8101	1.69917
SODIUM, DISSOLVED	92	24.08	10.75	5.40	60.00	91	0.08103	-10.96490	0.8969	4.80040
POTASSIUM, DISSOLVED	68	2.09	0.45	1.00	3.30	68	0.00262	0.98362	0.6545	0.34100
CHLORIDE, DISSOLVED	113	26.28	13.88	2.10	83.00	112	0.10305	-18.47237	0.9013	6.03884
SULFATE, DISSOLVED	113	82.92	33.44	23.00	240.00	112	0.25555	-28.04627	0.9275	12.55619
SILICA, DISSOLVED	109	9.93	1.61	7.00	15.00					
BORON, DISSOLVED, UG/L	29	37.38	17.82	0.05	70.00					
DISSOLVED SOLIDS, ROE 180 DEG C	71	274.00	80.30	134.00	440.00	70	0.61960	3.13906	0.9849	14.02931
DISSOLVED SOLIDS, SUM OF CONST	51	253.84	70.54	116.00	520.00	51	0.60648	0.52617	0.9567	20.73042

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				40	0.00	190.00
MANGANESE (MN), UG/L				40	0.00	160.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09071100 NAME: COLORADO RIVER NEAR GLENWOOD SPRINGS, CO.

LAT 39 34'12" LONG 107 13'34"

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY			
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, CONSTANT, R	B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	137	7.63	6.07	0.00	18.50					
STREAMFLOW, MEAN DAILY, (CFS)	1010	2264.71	2484.74	488.00	16000.00					
STREAMFLOW (CUBIC FT/SEC)	80	2412.26	2330.36	600.00	13800.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	1135	634.12	215.69	56.40	1140.00					
OXYGEN, DISSOLVED	88	9.65	1.41	7.00	12.50					
PH (STANDARD UNITS)	770			6.70	8.80					
BICARBONATE ION	1005	125.31	20.96	63.00	208.00	1004	0.08885	69.77465	0.9039	8.96524
NITRITE + NITRATE, DISSOLVED AS N	88	0.13	0.10	0.00	0.50					
ORTHOPHOSPHATE, DISSOLVED AS P	87	0.01	0.02	0.00	0.11					
HARDNESS, TOTAL	1070	188.15	52.53	34.00	510.00	1069	0.22266	46.57805	0.9189	20.72885
CALCIUM, DISSOLVED	942	55.71	15.95	20.00	180.00	938	0.06537	14.10352	0.9038	6.83723
MAGNESIUM, DISSOLVED	942	11.98	3.81	4.10	52.00	937	0.01434	2.85696	0.8292	2.13505
SODIUM, DISSOLVED	940	58.42	32.61	6.20	620.00	937	0.11972	-18.80042	0.7908	19.99499
POTASSIUM, DISSOLVED	549	2.59	0.86	0.90	5.80	548	0.00225	1.15940	0.5798	0.70140
CHLORIDE, DISSOLVED	967	77.79	39.50	6.00	200.00	966	0.17859	-33.59828	0.9630	10.65593
SULFATE, DISSOLVED	966	92.11	35.73	19.00	390.00	965	0.15285	-3.15442	0.9093	14.87478
SILICA, DISSOLVED	778	11.16	2.00	5.70	26.00	773	0.00411	8.62652	0.4452	1.79604
BORON, DISSOLVED, UG/L	195	41.41	40.38	0.00	370.00					
DISSOLVED SOLIDS, ROE 180 DEG C	977	382.50	130.41	54.00	815.00	977	0.58121	11.07444	0.9754	28.76937
DISSOLVED SOLIDS, SUM OF CONST	209	371.06	127.73	105.00	791.00	208	0.59246	-1.72839	0.9893	18.64118

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE =12850

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1070	931	852	726	620	481	290	241	199

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				490	0.00	240.00
MANGANESE (MN), UG/L				77	0.00	120.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09072500 NAME: COLORADO RIVER AT GLENWOOD SPRINGS, CO.

LAT 39 33'00" LONG 107 19'13" DRAINAGE AREA: 4558 SQ MI (11805.2 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	9	8.17	6.54	0.56	18.00					
STREAMFLOW, MEAN DAILY, (CFS)	85	2264.49	1918.63	49.00	8320.00					
STREAMFLOW (CUBIC FT/SEC)	38	2592.03	2002.68	708.00	8320.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	53	771.17	312.71	261.00	1490.00					
PH (STANDARD UNITS)	52			7.00	8.20					
BICARBONATE ION	52	131.06	22.71	84.00	187.00	52	0.06646	80.17694	0.9162	9.18926
HARDNESS, TOTAL	53	186.74	52.51	93.00	318.00	53	0.15592	66.49474	0.9285	19.69495
CALCIUM, DISSOLVED	53	56.21	16.03	28.00	90.00	53	0.04528	21.28731	0.8833	7.59019
MAGNESIUM, DISSOLVED	53	11.39	4.08	4.60	23.00	53	0.01073	3.11180	0.8216	2.35059
SODIUM, DISSOLVED	37	91.30	49.71	16.00	198.00	37	0.14716	-26.16177	0.9889	7.48173
POTASSIUM, DISSOLVED	17	3.29	1.49	1.00	5.40	17	0.00329	0.62485	0.8898	0.70370
CHLORIDE, DISSOLVED	52	121.73	71.13	20.00	305.00	52	0.22323	-49.17778	0.9827	13.32186
SULFATE, DISSOLVED	52	90.79	35.49	27.00	155.00	52	0.10400	11.16617	0.9176	14.24227
SILICA, DISSOLVED	52	10.27	1.58	7.90	13.00					
BORON, DISSOLVED, UG/L	21	46.67	13.54	20.00	70.00					
DISSOLVED SOLIDS, ROE 180 DEG C	53	453.32	179.14	155.00	870.00	53	0.57172	12.42538	0.9980	11.42565
DISSOLVED SOLIDS, SUM OF CONST	6	373.83	125.74	200.00	522.00	6	0.55885	21.94244	0.9979	9.15888

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				1	3.30	3.30

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09085000 NAME: ROARING FORK RIVER AT GLENWOOD SPRINGS, CO.

LAT 39 32'37" LONG 107 19'44" DRAINAGE AREA: 1451 SQ MI (3758.09 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	63	8.29	5.30	0.00	18.50					
STREAMFLOW, MEAN DAILY, (CFS)	221	1427.75	1456.98	272.00	7390.00					
STREAMFLOW (CUBIC FT/SEC)	45	1412.44	1328.27	328.00	5830.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	217	516.06	175.05	190.00	900.00					
OXYGEN, DISSOLVED	10	9.31	1.06	8.00	10.80					
PH (STANDARD UNITS)	188			7.00	8.70					
BICARBONATE ION	180	147.32	37.58	74.00	213.00	180	0.20753	42.08918	0.9586	10.73571
NITRITE + NITRATE, DISSOLVED AS N	8	0.20	0.11	0.10	0.40					
ORTHOPHOSPHATE, DISSOLVED AS P	8	0.01	0.01	0.00	0.02					
HARDNESS, TOTAL	179	218.02	70.50	83.00	330.00	179	0.40095	15.80868	0.9934	8.08461
CALCIUM, DISSOLVED	65	69.62	21.40	28.00	103.00	65	0.11938	7.80955	0.9738	4.90373
MAGNESIUM, DISSOLVED	64	12.04	5.06	3.20	27.00	64	0.02613	-1.45616	0.9064	2.15625
SODIUM, DISSOLVED	53	21.31	11.37	2.70	46.00	53	0.05990	-9.33486	0.9478	3.66071
POTASSIUM, DISSOLVED	26	1.54	0.44	0.70	2.40	26	0.00217	0.41399	0.8740	0.21647
CHLORIDE, DISSOLVED	180	24.55	14.89	2.10	64.00	180	0.08077	-16.22695	0.9453	4.87166
SULFATE, DISSOLVED	180	107.85	45.11	29.00	190.00	180	0.25095	-18.84685	0.9698	11.03578
SILICA, DISSOLVED	52	10.46	1.86	5.60	15.00	52	0.00701	6.88405	0.6809	1.37530
BORON, DISSOLVED, UG/L	6	28.33	18.35	10.00	60.00					
DISSOLVED SOLIDS, ROE 180 DEG C	173	324.21	115.17	118.00	509.00	173	0.65412	-3.29821	0.9954	11.09906
DISSOLVED SOLIDS, SUM OF CONST	25	339.88	98.89	126.00	490.00	25	0.64119	-11.59516	0.9903	14.01147

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1970

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	810	742	714	669	605	433	260	230	203

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				1	40.00	40.00
MANGANESE (MN), UG/L				1	10.00	10.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09093000 NAME: PARACHUTE CREEK NEAR GRAND VALLEY, CO.

LAT 39 34'01" LONG 108 06'37" DRAINAGE AREA: 141.001 SQ MI (365.193 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	49	9.04	5.74	0.00	21.00					
STREAMFLOW (CUBIC FT/SEC)	64	17.35	39.90	0.32	251.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	41	714.68	97.92	435.00	890.00					
OXYGEN, DISSOLVED	41	9.70	1.35	8.20	13.00					
PH (STANDARD UNITS)	41			7.20	8.80					
BICARBONATE ION	34	349.68	41.42	240.00	420.00	34	0.29174	141.06423	0.7584	27.41771
NITRITE + NITRATE, DISSOLVED AS N	2	1.02	0.40	0.74	1.30					
ORTHOPHOSPHATE, DISSOLVED AS P	2	0.06	0.01	0.05	0.06					
HARDNESS, TOTAL	36	290.56	34.88	210.00	350.00	36	0.30098	75.50472	0.9024	15.25264
CALCIUM, DISSOLVED	36	55.58	3.84	45.00	62.00	36	0.01576	44.32031	0.4290	3.52147
MAGNESIUM, DISSOLVED	36	36.89	7.35	20.00	50.00	36	0.06425	-9.01798	0.9140	3.02565
SODIUM, DISSOLVED	36	60.69	14.75	29.00	86.00	36	0.12528	-28.81517	0.8880	6.88502
POTASSIUM, DISSOLVED	37	2.46	0.70	1.20	4.00	37	0.00473	-0.91654	0.6972	0.50898
CHLORIDE, DISSOLVED	36	6.33	2.09	2.10	14.00	36	0.01503	-4.40875	0.7540	1.38978
SULFATE, DISSOLVED	36	110.92	34.02	39.00	200.00	36	0.25565	-71.74491	0.7859	21.34398
SILICA, DISSOLVED	36	16.50	1.18	14.00	19.00	36	0.00392	13.69661	0.3468	1.12599
BORON, DISSOLVED, UG/L	37	94.05	31.40	30.00	150.00					
DISSOLVED SOLIDS, SUM OF CONST	34	465.44	75.09	288.00	583.00	34	0.63523	11.21314	0.9108	31.48131

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1142

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	873	852	830	785	708	631	545	495	432

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				27	2.00	5.00
CADMIUM(CD), UG/L				13	0.00	1.00
CHROMIUM (CR), UG/L				9	0.00	15.00
COPPER (CU), UG/L				11	0.00	10.00
IRON (FE), UG/L				38	0.00	180.00
LEAD (PB), UG/L				12	0.00	11.00
MANGANESE (MN), UG/L				25	0.00	20.00
MERCURY (HG), UG/L				13	0.00	0.20
SELENIUM (SE), UG/L				26	0.00	4.00
ZINC (ZN), UG/L				12	0.00	20.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09093500 NAME: PARACHUTE CREEK AT GRAND VALLEY, CO.

LAT 39 27'11" LONG 108 03'33" DRAINAGE AREA: 198.001 SQ MI (512.823 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	48	9.33	6.55	0.00	21.50					
STREAMFLOW, MEAN DAILY, (CFS)	1	10.70	.	10.70	10.70					
STREAMFLOW (CUBIC FT/SEC)	47	31.43	55.00	0.12	304.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	45	1271.33	405.44	520.00	2300.00					
OXYGEN, DISSOLVED	43	10.21	1.33	7.40	12.90					
PH (STANDARD UNITS)	45			7.50	8.60					
BICARBONATE ION	45	442.64	78.62	194.00	580.00	45	0.14259	261.36532	0.7354	53.89355
NITRITE + NITRATE, DISSOLVED AS N	44	0.64	0.35	0.04	1.60					
ORTHOPHOSPHATE, DISSOLVED AS P	44	0.04	0.06	0.00	0.28					
HARDNESS, TOTAL	45	491.33	140.71	210.00	820.00	45	0.32691	75.72655	0.9420	47.78266
CALCIUM, DISSOLVED	45	90.91	24.51	54.00	160.00	45	0.05634	19.28434	0.9319	8.99575
MAGNESIUM, DISSOLVED	45	63.78	19.60	19.00	100.00	45	0.04473	6.91122	0.9255	7.50946
SODIUM, DISSOLVED	45	123.29	54.85	38.00	280.00	45	0.13041	-42.49942	0.9640	14.75814
POTASSIUM, DISSOLVED	45	3.98	1.08	1.90	8.70					
CHLORIDE, DISSOLVED	45	12.56	3.86	4.20	22.00	45	0.00827	2.04650	0.8680	1.94082
SULFATE, DISSOLVED	45	340.36	183.36	64.00	800.00	45	0.43505	-212.732	0.9620	50.66888
SILICA, DISSOLVED	43	17.72	1.80	15.00	23.00	43	0.00237	14.69303	0.5365	1.54068
BORON, DISSOLVED, UG/L	42	149.29	56.28	0.00	290.00					
DISSOLVED SOLIDS, SUM OF CONST	43	885.70	315.16	352.00	1640.00	43	0.74889	-72.09636	0.9713	75.93147

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1280

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	2400	2040	1640	1380	1200	1040	728	614	510

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				43	0.00	14.00
CADMIUM(CD), UG/L				42	0.00	3.00
COPPER (CU), UG/L				42	0.00	7.00
IRON (FE), UG/L				41	0.00	180.00
LEAD (PB), UG/L				42	0.00	21.00
MANGANESE (MN), UG/L				42	0.00	60.00
MERCURY (HG), UG/L				41	0.00	0.40
SELENIUM (SE), UG/L				42	0.00	8.00
ZINC (ZN), UG/L				41	0.00	30.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09093700 NAME: COLORADO RIVER NEAR DE BEQUE, CO.

LAT 39 21'45" LONG 108 09'07" DRAINAGE AREA: 7370 SQ MI (19088.3 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	78	9.63	6.41	0.00	22.50					
STREAMFLOW, MEAN DAILY, (CFS)	38	4073.95	3701.27	1740.00	16000.00					
STREAMFLOW (CUBIC FT/SEC)	52	3807.12	4257.41	1140.00	17400.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	75	920.87	339.04	270.00	1980.00					
OXYGEN, DISSOLVED	52	9.76	1.35	7.40	12.00					
PH (STANDARD UNITS)	51			7.10	8.50					
BICARBONATE ION	50	152.48	27.64	95.00	205.00	50	0.07896	80.52553	0.9345	9.94109
NITRITE + NITRATE, DISSOLVED AS N	50	0.17	0.12	0.01	0.43					
ORTHOPHOSPHATE, DISSOLVED AS P	50	0.01	0.01	0.00	0.05					
HARDNESS, TOTAL	50	225.00	58.46	110.00	340.00	50	0.17044	69.68212	0.9537	17.76568
CALCIUM, DISSOLVED	50	64.94	16.66	31.00	95.00	50	0.04786	21.32823	0.9398	5.74995
MAGNESIUM, DISSOLVED	50	15.19	4.28	6.70	24.00	50	0.01246	3.82707	0.9533	1.30497
SODIUM, DISSOLVED	50	101.86	47.35	14.00	190.00	50	0.14306	-28.51371	0.9884	7.27525
POTASSIUM, DISSOLVED	50	3.71	1.15	1.20	5.60	50	0.00336	0.64542	0.9545	0.34738
CHLORIDE, DISSOLVED	50	140.36	68.67	18.00	280.00	50	0.20692	-48.20287	0.9856	11.72906
SULFATE, DISSOLVED	50	120.26	41.62	37.00	190.00	50	0.12032	10.60991	0.9458	13.65931
SILICA, DISSOLVED	50	8.20	1.20	4.70	11.00					
DISSOLVED SOLIDS, SUM OF CONST	50	530.96	189.37	163.00	859.00	50	0.57417	7.71671	0.9918	24.47059

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1595

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1500	1350	1300	1100	1000	875	460	360	300

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				50	0.00	210.00
MANGANESE (MN), UG/L				50	0.00	60.00

STATISTICAL SUMMARY OF WATER QUALITY DATA
STATION NUMBER: 09095000 NAME: ROAN CREEK NEAR DE BEQUE, CO.

LAT 39 27'12" LONG 108 18'59" DRAINAGE AREA: 321.001 SQ MI (831.393 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	43	8.85	5.83	0.00	20.50					
STREAMFLOW (CUBIC FT/SEC)	41	35.53	47.86	5.43	230.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	43	1116.05	221.72	460.00	1500.00					
OXYGEN, DISSOLVED	42	9.82	1.33	6.40	11.90					
PH (STANDARD UNITS)	42			7.20	8.80					
BICARBONATE ION	41	480.68	83.11	142.00	575.00	41	0.31715	127.80082	0.8635	42.44759
NITRITE + NITRATE, DISSOLVED AS N	41	0.74	0.30	0.01	1.50					
ORTHOPHOSPHATE, DISSOLVED AS P	41	0.04	0.08	0.00	0.50					
HARDNESS, TOTAL	41	442.93	88.27	140.00	560.00	41	0.37343	27.78166	0.9547	26.61196
CALCIUM, DISSOLVED	42	74.14	12.30	26.00	90.00	42	0.04860	19.91667	0.8868	5.75457
MAGNESIUM, DISSOLVED	41	62.56	14.72	17.00	83.00	41	0.06149	-5.80290	0.9430	4.96106
SODIUM, DISSOLVED	42	108.95	27.46	39.00	150.00	42	0.11592	-20.38284	0.9474	8.89465
POTASSIUM, DISSOLVED	41	3.42	0.68	2.00	5.80	41	0.00187	1.31080	0.5540	0.57197
CHLORIDE, DISSOLVED	42	9.32	3.37	2.90	17.00	42	0.00826	0.10311	0.5504	2.84618
SULFATE, DISSOLVED	40	254.57	73.45	95.00	400.00	40	0.30721	-90.34247	0.9189	29.35163
SILICA, DISSOLVED	40	15.50	1.11	13.00	18.00					
BORON, DISSOLVED, UG/L	41	210.24	42.81	100.00	280.00					
DISSOLVED SOLIDS, SUM OF CONST	38	784.26	143.56	458.00	1030.00	38	0.69138	-1.17574	0.9407	49.35917

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1337

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1500	1430	1370	1290	1180	1010	823	705	553

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				41	1.00	6.00
CADMIUM(CD), UG/L				39	0.00	2.00
COPPER (CU), UG/L				39	0.00	8.00
IRON (FE), UG/L				40	0.00	200.00
LEAD (PB), UG/L				39	0.00	19.00
MANGANESE (MN), UG/L				40	0.00	60.00
MERCURY (HG), UG/L				39	0.00	0.10
SELENIUM (SE), UG/L				41	0.00	6.00
ZINC (ZN), UG/L				39	0.00	40.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09095500 NAME: COLORADO RIVER NEAR CAMEO, CO.

LAT 39 14'20" LONG 108 16'00" DRAINAGE AREA: 8050 SQ MI (20849.5 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	135	9.64	6.91	0.00	23.00					
STREAMFLOW, MEAN DAILY, (CFS)	1030	3953.29	4461.82	913.00	28900.00					
STREAMFLOW (CUBIC FT/SEC)	78	4241.10	4786.37	1140.00	22400.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	1045	989.79	365.44	251.00	1740.00					
OXYGEN, DISSOLVED	85	9.64	1.53	6.90	12.80					
PH (STANDARD UNITS)	555			6.90	8.80					
BICARBONATE ION	639	162.69	29.06	72.00	234.00	586	0.07469	89.87878	0.8824	13.47576
NITRITE + NITRATE, DISSOLVED AS N	86	0.27	0.26	0.00	1.40					
ORTHOPHOSPHATE, DISSOLVED AS P	86	0.02	0.06	0.00	0.58					
HARDNESS, TOTAL	610	240.95	64.15	100.00	376.00	564	0.17698	69.29939	0.9587	17.58033
CALCIUM, DISSOLVED	529	68.50	17.09	30.00	107.00	483	0.04670	23.32115	0.9398	5.66412
MAGNESIUM, DISSOLVED	527	17.36	6.13	2.90	45.00	481	0.01541	2.32393	0.8723	2.87927
SODIUM, DISSOLVED	306	111.46	50.77	10.00	206.00	260	0.14290	-30.19355	0.9894	6.82397
POTASSIUM, DISSOLVED	188	4.01	1.41	1.30	9.60	142	0.00335	0.66812	0.8249	0.73298
CHLORIDE, DISSOLVED	634	147.80	70.56	10.00	305.00	581	0.19914	-47.94765	0.9859	11.38834
SULFATE, DISSOLVED	627	138.19	52.73	19.00	252.00	574	0.14879	-7.98029	0.9720	12.07745
SILICA, DISSOLVED	465	10.14	2.33	3.90	23.00	421	0.00162	8.35316	0.2534	2.05680
BORON, DISSOLVED, UG/L	114	111.27	330.67	0.00	2100.00					
DISSOLVED SOLIDS, ROE 180 DEG C	903	615.42	230.38	152.00	1050.00	851	0.60987	-6.44124	0.9961	20.04871
DISSOLVED SOLIDS, SUM OF CONST	147	596.72	217.40	143.00	996.00	104	0.58021	6.86327	0.9911	24.47594

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE =15208

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1610	1470	1390	1230	1030	746	400	333	279

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				128	0.00	240.00
MANGANESE (MN), UG/L				76	0.00	90.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09105000 NAME: PLATEAU CREEK NEAR CAMEO, CO.

LAT 39 11'00" LONG 108 16'10" DRAINAGE AREA: 592.001 SQ MI (1533.28 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	74	10.11	7.84	0.00	27.00					
STREAMFLOW, MEAN DAILY, (CFS)	38	232.55	266.31	50.00	935.00					
STREAMFLOW (CUBIC FT/SEC)	37	137.41	179.25	12.00	1000.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	76	672.49	193.03	240.00	950.00					
OXYGEN, DISSOLVED	50	10.31	1.52	7.20	13.40					
PH (STANDARD UNITS)	70			6.80	8.90					
BICARBONATE ION.	62	339.02	88.12	130.00	450.00	62	0.45884	28.82827	0.9575	25.63481
NITRITE + NITRATE, DISSOLVED AS N	51	0.38	0.74	0.00	5.30					
ORTHOPHOSPHATE, DISSOLVED AS P	50	0.03	0.02	0.00	0.09					
HARDNESS, TOTAL	62	256.65	67.13	100.00	360.00	62	0.34301	24.75750	0.9395	23.17973
CALCIUM, DISSOLVED	61	51.23	11.90	26.00	72.00	61	0.04779	18.77205	0.7376	8.10246
MAGNESIUM, DISSOLVED	61	31.56	10.88	8.70	48.00	61	0.05459	-5.52641	0.9216	4.25752
SODIUM, DISSOLVED	60	60.97	22.84	14.00	100.00	60	0.11383	-15.53675	0.9247	8.76765
POTASSIUM, DISSOLVED	56	5.09	1.63	2.00	8.60	56	0.00723	0.25080	0.8398	0.89142
CHLORIDE, DISSOLVED	60	9.22	3.54	2.90	21.00	60	0.01567	-1.33865	0.8252	2.01408
SULFATE, DISSOLVED	61	93.41	35.34	20.00	160.00	61	0.17142	-22.40893	0.8991	15.59895
SILICA, DISSOLVED	59	24.00	6.20	11.00	35.00	59	0.02800	5.12107	0.8329	3.46043
BORON, DISSOLVED, UG/L	9	61.03	61.20	0.04	170.00					
DISSOLVED SOLIDS, ROE 180 DEG C	11	453.45	110.23	179.00	546.00	11	0.64328	3.74553	0.9977	7.90580
DISSOLVED SOLIDS, SUM OF CONST	53	439.36	131.71	153.00	607.00	53	0.66807	-3.69546	0.9689	32.89176

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1219

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	950	850	800	750	700	550	425	350	250

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				48	0.00	170.00
MANGANESE (MN), UG/L				48	0.00	40.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09106200 NAME: LEWIS WASH NEAR GRAND JUNCTION, CO.

LAT 39 03'38" LONG 108 28'38" DRAINAGE AREA: 4.721 SQ MI (12.2274 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	29	10.53	6.83	1.00	21.00					
STREAMFLOW, MEAN DAILY, (CFS)	5	10.63	8.76	0.84	18.00					
STREAMFLOW (CUBIC FT/SEC)	25	9.12	9.60	0.07	34.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	28	2950.79	2094.99	576.00	6000.00					
OXYGEN, DISSOLVED	28	9.87	1.67	7.00	12.60					
PH (STANDARD UNITS)	28			7.30	8.80					
BICARBONATE ION	29	293.17	131.29	114.00	461.00	28	0.06228	106.51197	0.9828	24.96127
NITRITE + NITRATE, DISSOLVED AS N	28	4.52	4.38	0.34	11.00					
ORTHOPHOSPHATE, DISSOLVED AS P	28	0.03	0.05	0.00	0.23					
HARDNESS, TOTAL	29	1380.69	1125.04	200.00	2800.00	28	0.53790	-228.657	0.9892	170.44960
CALCIUM, DISSOLVED	29	275.21	201.01	53.00	530.00	28	0.09567	-12.97303	0.9915	26.74675
MAGNESIUM, DISSOLVED	29	168.83	153.27	7.00	380.00	28	0.07274	-48.01117	0.9793	32.12530
SODIUM, DISSOLVED	28	239.71	153.28	35.00	440.00	27	0.07209	19.76279	0.9828	29.21173
POTASSIUM, DISSOLVED	29	7.06	3.48	1.80	18.00	28	0.00128	3.24002	0.7576	2.35013
CHLORIDE, DISSOLVED	29	175.00	78.87	34.00	270.00	28	0.03343	75.46351	0.8737	39.74597
SULFATE, DISSOLVED	29	1367.59	1199.39	130.00	2900.00	28	0.57336	-350.433	0.9903	171.69121
SILICA, DISSOLVED	28	10.57	2.63	6.40	16.00	27	0.00097	7.67530	0.1722	1.72910
BORON, DISSOLVED, UG/L	1	80.00	.	80.00	80.00					
DISSOLVED SOLIDS, SUM OF CONST	27	2456.26	1901.09	344.00	4730.00	26	0.88619	-240.276	0.9921	246.47361

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1616

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	7000	6000	5730	5230	1970	1150	780	632	520

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
CADMIUM(CD), UG/L				1	1.00	1.00
COPPER (CU), UG/L				1	1.00	1.00
IRON (FE), UG/L				26	10.00	140.00
LEAD (PB), UG/L				1	3.00	3.00
MANGANESE (MN), UG/L				29	20.00	740.00
MERCURY (HG), UG/L				1	0.00	0.00
SELENIUM (SE), UG/L				1	5.00	5.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09137300 NAME: GUNNISON RIVER AT AUSTIN, CO.

LAT 38 46'33" LONG 107 57'39"

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
STREAMFLOW, MEAN DAILY, (CFS)	35	1705.89	2481.55	190.00	12000.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	35	651.86	296.55	188.00	1290.00					
PH (STANDARD UNITS)	35			7.10	8.30					
BICARBONATE ION	35	149.89	42.81	81.00	238.00	35	0.13907	59.23310	0.9634	11.64027
HARDNESS, TOTAL	35	268.14	125.56	85.00	570.00	35	0.42125	-6.44925	0.9949	12.88359
CALCIUM, DISSOLVED	1	60.00	.	60.00	60.00	1	0.00000	59.99998	0.0000	0.00000
MAGNESIUM, DISSOLVED	1	15.00	.	15.00	15.00	1	0.00000	15.00000	0.0000	0.00000
SODIUM, DISSOLVED	1	22.00	.	22.00	22.00	1	0.00000	21.99998	0.0000	0.00000
POTASSIUM, DISSOLVED	1	2.00	.	2.00	2.00	1	0.00000	2.00000	0.0000	0.00000
CHLORIDE, DISSOLVED	35	9.90	4.99	2.00	20.00	35	0.01535	-0.10808	0.9120	2.07879
SULFATE, DISSOLVED	35	209.80	131.38	24.00	529.00	35	0.44059	-77.40407	0.9945	13.96180
SILICA, DISSOLVED	1	12.00	.	12.00	12.00	1	0.00000	11.99999	0.0000	0.00000
BORON, DISSOLVED, UG/L	1	60.00	.	60.00	60.00					
DISSOLVED SOLIDS, ROE 180 DEG C	35	449.86	227.84	121.00	1010.00	35	0.76560	-49.20164	0.9965	19.41871

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				1	210.00	210.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09152500 NAME: GUNNISON RIVER NEAR GRAND JUNCTION, CO.

LAT 38 59'00" LONG 108 27'00" DRAINAGE AREA: 7928 SQ MI (20533.5 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	154	10.86	7.02	0.00	25.50					
STREAMFLOW, MEAN DAILY, (CFS)	1309	2382.34	2997.67	122.00	22500.00					
STREAMFLOW (CUBIC FT/SEC)	149	2691.69	3263.87	148.00	16000.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	1258	1314.89	561.20	303.00	2960.00					
OXYGEN, DISSOLVED	84	9.34	1.52	6.60	12.90					
PH (STANDARD UNITS)	652			6.60	8.70					
BICARBONATE ION	919	194.02	42.96	90.00	340.00	778	0.06922	106.08227	0.8565	21.80199
NITRITE + NITRATE, DISSOLVED AS N	53	1.02	0.50	0.20	2.10					
ORTHOPHOSPHATE, DISSOLVED AS P	53	0.02	0.02	0.00	0.11					
HARDNESS, TOTAL	948	542.99	253.69	105.00	1370.00	813	0.43759	-26.01020	0.9916	29.94834
CALCIUM, DISSOLVED	773	135.69	61.26	38.00	335.00	637	0.10316	-0.35845	0.9705	13.53757
MAGNESIUM, DISSOLVED	773	51.97	26.18	5.80	134.00	637	0.04281	-5.76636	0.9777	4.86076
SODIUM, DISSOLVED	661	110.41	65.43	4.20	348.00	526	0.09585	-23.48421	0.9825	9.57463
POTASSIUM, DISSOLVED	453	5.18	2.41	1.50	14.00	318	0.00281	1.31167	0.7741	1.18221
CHLORIDE, DISSOLVED	865	16.23	9.32	1.00	60.00	724	0.01195	-0.21692	0.9102	2.77636
SULFATE, DISSOLVED	865	560.03	326.24	60.00	1790.00	724	0.54457	-148.221	0.9925	34.24785
SILICA, DISSOLVED	676	15.92	3.49	5.90	37.00	534	0.00328	11.78771	0.4985	2.94445
BORON, DISSOLVED, UG/L	143	148.70	84.72	0.00	350.00					
DISSOLVED SOLIDS, ROE 180 DEG C	1150	1097.23	560.50	203.00	3030.00	1009	0.90871	-149.479	0.9928	61.92088
DISSOLVED SOLIDS, SUM OF CONST	372	1073.45	569.83	214.00	2820.00	237	0.84564	-116.41	0.9968	34.82300

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE =14359

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	2600	2210	1980	1660	1360	800	506	427	338

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				14	0.00	7.00
CADMIUM(CD), UG/L				13	0.00	2.00
CHROMIUM (CR), UG/L				14	0.00	10.00
COPPER (CU), UG/L				13	0.00	7.00
IRON (FE), UG/L				214	0.00	240.00
LEAD (PB), UG/L				13	0.00	9.00
MANGANESE (MN), UG/L				55	0.00	140.00
MERCURY (HG), UG/L				14	0.00	0.00
SELENIUM (SE), UG/L				13	0.00	25.00
ZINC (ZN), UG/L				13	0.00	30.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09152600 NAME: ORCHARD MESA DRAIN AT GRAND JUNCTION, CO.

LAT 39 02'49" LONG 108 34'17" DRAINAGE AREA: 3.701 SQ MI (9.58559 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	40	12.90	7.16	0.50	25.00					
STREAMFLOW, MEAN DAILY, (CFS)	7	16.93	20.58	1.40	60.00					
STREAMFLOW (CUBIC FT/SEC)	23	7.28	6.67	0.48	20.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	40	2988.50	1153.78	1200.00	4500.00					
OXYGEN, DISSOLVED	24	9.97	1.78	6.60	12.70					
PH (STANDARD UNITS)	29			7.40	8.50					
BICARBONATE ION	29	274.10	67.01	141.00	375.00	29	0.05436	109.97867	0.9243	26.05211
NITRITE + NITRATE, DISSOLVED AS N	28	2.73	1.54	0.73	7.70					
ORTHOPHOSPHATE, DISSOLVED AS P	28	0.06	0.07	0.00	0.27					
HARDNESS, TOTAL	29	1351.38	600.11	580.00	2100.00	29	0.51174	-193.534	0.9715	144.85232
CALCIUM, DISSOLVED	29	357.59	151.91	150.00	590.00	29	0.12641	-24.04355	0.9481	49.21018
MAGNESIUM, DISSOLVED	29	112.34	57.65	45.00	220.00	29	0.04868	-34.61262	0.9620	16.03265
SODIUM, DISSOLVED	28	226.79	89.53	90.00	360.00	28	0.07464	-0.45349	0.9601	25.52940
POTASSIUM, DISSOLVED	29	6.02	1.98	3.30	11.00	29	0.00128	2.15599	0.7358	1.36586
CHLORIDE, DISSOLVED	29	171.41	48.04	68.00	240.00	29	0.03045	79.49437	0.7221	33.84267
SULFATE, DISSOLVED	29	1349.66	673.70	500.00	2100.00	29	0.57668	-391.33	0.9752	151.78272
SILICA, DISSOLVED	29	16.08	5.26	3.90	25.00	29	0.00279	7.64084	0.6048	4.26798
BORON, DISSOLVED, UG/L	1	230.00	.	230.00	230.00					
DISSOLVED SOLIDS, SUM OF CONST	28	2416.50	1042.07	982.00	3580.00	28	0.88934	-291.225	0.9828	195.94101

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1640

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	5630	4580	4440	4060	2220	1860	1480	1320	1050

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				1	0.00	0.00
CADMIUM(CD), UG/L				1	1.00	1.00
COPPER (CU), UG/L				1	2.00	2.00
IRON (FE), UG/L				28	0.00	150.00
LEAD (PB), UG/L				1	4.00	4.00
MANGANESE (MN), UG/L				29	40.00	560.00
SELENIUM (SE), UG/L				1	9.00	9.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09152650 NAME: LEACH CREEK AT DURHAM, CO.

LAT 39 05'27" LONG 108 36'25" DRAINAGE AREA: 24.801 SQ MI (64.2345 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	39	11.64	7.26	0.50	23.00					
STREAMFLOW, MEAN DAILY, (CFS)	4	41.40	37.69	6.60	75.00					
STREAMFLOW (CUBIC FT/SEC)	23	24.46	19.68	4.80	54.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	36	2782.94	1382.71	946.00	5000.00					
OXYGEN, DISSOLVED	26	11.04	2.73	7.30	15.60					
PH (STANDARD UNITS)	28			7.30	8.70					
BICARBONATE ION	28	264.25	70.01	138.00	373.00	25	0.04741	123.93872	0.9531	22.11254
NITRITE + NITRATE, DISSOLVED AS N	28	3.84	2.89	0.71	8.20					
ORTHOPHOSPHATE, DISSOLVED AS P	28	0.05	0.07	0.00	0.28					
HARDNESS, TOTAL	28	1380.00	748.44	360.00	2200.00	25	0.51355	-141.634	0.9759	168.68490
CALCIUM, DISSOLVED	28	324.32	167.47	91.00	540.00	25	0.11335	-11.16380	0.9560	51.05392
MAGNESIUM, DISSOLVED	28	135.82	80.27	31.00	240.00	25	0.05427	-25.53705	0.9692	20.26090
SODIUM, DISSOLVED	28	219.54	99.08	57.00	330.00	25	0.06719	19.65307	0.9720	23.84957
POTASSIUM, DISSOLVED	28	7.31	2.59	3.00	13.00	25	0.00161	2.53932	0.8748	1.30804
CHLORIDE, DISSOLVED	28	156.25	48.28	46.00	210.00	25	0.02520	81.01065	0.7194	35.72465
SULFATE, DISSOLVED	28	1371.07	824.41	300.00	2300.00	25	0.56816	-309.313	0.9787	174.93128
SILICA, DISSOLVED	27	11.19	3.34	7.40	24.00	24	0.00132	7.70002	0.5506	2.95252
DISSOLVED SOLIDS, SUM OF CONST	27	2334.96	1252.49	608.00	3740.00	24	0.85872	-174.855	0.9816	247.54628

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1650

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	5280	4920	4690	4150	1950	1450	1110	1000	791

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				27	0.00	70.00
MANGANESE (MN), UG/L				28	30.00	550.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09152900 NAME: ADOBE CREEK NEAR FRUITA, CO.

LAT 39 08'13" LONG 108 41'48" DRAINAGE AREA: 15.401 SQ MI (39.8886 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	32	9.88	7.23	0.00	21.50					
STREAMFLOW, MEAN DAILY, (CFS)	5	15.44	15.05	2.10	37.00					
STREAMFLOW (CUBIC FT/SEC)	27	18.29	18.78	0.85	52.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	32	3071.09	1516.85	925.00	5000.00					
OXYGEN, DISSOLVED 300	30	10.27	2.48	7.00	14.10					
PH (STANDARD UNITS)	32			7.40	8.40					
BICARBONATE ION	32	302.50	104.28	147.00	427.00	32	0.06713	96.35217	0.9764	22.91346
NITPITE + NITRATE, DISSOLVED AS N	32	5.60	3.87	1.40	10.00					
ORTHOPHOSPHATE, DISSOLVED AS P	32	0.04	0.05	0.00	0.27					
HARDNESS, TOTAL	32	1320.31	725.98	410.00	2100.00	32	0.47457	-137.135	0.9916	95.70424
CALCIUM, DISSOLVED	32	313.44	156.03	110.00	480.00	32	0.10173	1.01475	0.9890	23.50202
MAGNESIUM, DISSOLVED	32	130.66	82.57	31.00	240.00	32	0.05335	-33.18410	0.9801	16.67379
SODIUM, DISSOLVED	32	280.59	146.94	72.00	470.00	32	0.09529	-12.05534	0.9837	26.84679
POTASSIUM, DISSOLVED	32	6.98	2.28	2.90	12.00	32	0.00138	2.73327	0.9180	0.92067
CHLORIDE, DISSOLVED	32	180.09	62.26	56.00	260.00	32	0.03358	76.96051	0.8182	36.38746
SULFATE, DISSOLVED	32	1360.31	838.57	340.00	2300.00	32	0.54727	-320.419	0.9899	120.60303
SILICA, DISSOLVED	32	9.63	1.59	6.80	13.00	32	0.00048	8.15182	0.4614	1.43143
DISSOLVED SOLIDS, SUM OF CONST	32	2456.34	1338.63	701.00	3910.00	32	0.87665	-235.916	0.9934	156.61600

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1992

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	5470	5020	4810	4380	1890	1470	1160	1080	971

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				32	0.00	190.00
MANGANESE (MN), UG/L				32	30.00	520.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09153270 NAME: BIG SALT WASH AT FRUITA, CO.

LAT 39 09'49" LONG 108 45'01" DRAINAGE AREA: 142.001 SQ MI (367.783 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	29	10.36	6.88	1.50	22.50					
STREAMFLOW, MEAN DAILY, (CFS)	6	55.92	45.71	9.50	106.00					
STREAMFLOW (CUBIC FT/SEC)	23	54.34	47.79	6.50	149.50					
SPECIFIC CONDUCTANCE (MICROMHOS)	27	2537.78	924.78	930.00	4000.00					
OXYGEN, DISSOLVED	29	9.78	1.44	7.40	12.80					
PH (STANDARD UNITS)	29			7.20	8.60					
BICARBONATE ION	29	321.76	93.78	155.00	432.00	27	0.09783	69.72983	0.9544	28.84854
NITRITE + NITRATE, DISSOLVED AS N	28	3.60	3.29	0.95	18.00					
ORTHOPHOSPHATE, DISSOLVED AS P	29	0.03	0.04	0.00	0.14					
HARDNESS, TOTAL	29	1146.21	488.19	410.00	1800.00	27	0.51937	-175.823	0.9721	118.17048
CALCIUM, DISSOLVED	29	276.21	111.82	100.00	430.00	27	0.11833	-25.11745	0.9718	27.06670
MAGNESIUM, DISSOLVED	29	112.03	52.08	39.00	180.00	27	0.05580	-30.13321	0.9769	11.50361
SODIUM, DISSOLVED	29	195.90	67.05	70.00	280.00	27	0.07003	16.03154	0.9422	23.47846
POTASSIUM, DISSOLVED	29	6.19	1.41	3.50	8.30	27	0.00129	2.92874	0.8478	0.76286
CHLORIDE, DISSOLVED	29	145.34	45.75	46.00	220.00	27	0.03279	64.01579	0.6652	34.71220
SULFATE, DISSOLVED	29	1064.14	489.49	330.00	1800.00	27	0.52372	-276.859	0.9783	104.50659
SILICA, DISSOLVED	28	11.16	2.26	7.80	15.00	26	0.00177	6.77347	0.7322	1.55664
DISSOLVED SOLIDS, SUM OF CONST	28	1958.21	801.14	700.00	3120.00	26	0.86202	-218.751	0.9843	146.09197

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1660

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	4990	4230	3920	3470	2080	1670	1330	1200	955

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				28	0.00	80.00
MANGANESE (MN), UG/L				29	20.00	180.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09153300 NAME: REED WASH NEAR LOMA, CO.

LAT 39 11'01" LONG 108 47'12" DRAINAGE AREA: 29.301 SQ MI (75.8895 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	32	9.69	6.42	0.50	20.50					
STREAMFLOW, MEAN DAILY, (CFS)	5	110.20	88.08	10.00	184.00					
STREAMFLOW (CUBIC FT/SEC)	28	78.23	76.49	6.20	197.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	30	3314.33	1596.82	1160.00	5500.00					
OXYGEN, DISSOLVED	31	10.01	2.01	7.00	13.60					
PH (STANDARD UNITS)	30			6.90	8.30					
BICARBONATE ION	31	297.19	81.27	170.00	388.00	29	0.04930	126.17826	0.9778	17.30822
NITRITE + NITRATE, DISSOLVED AS N	32	5.45	3.33	1.10	9.80					
ORTHOPHOSPHATE, DISSOLVED AS P	31	0.03	0.03	0.00	0.09					
HARDNESS, TOTAL	31	1610.32	814.81	520.00	2500.00	29	0.49692	-108.449	0.9768	178.50109
CALCIUM, DISSOLVED	31	358.06	161.96	130.00	540.00	29	0.09892	16.98459	0.9722	39.01529
MAGNESIUM, DISSOLVED	31	174.16	100.26	47.00	290.00	29	0.06075	-36.67681	0.9774	21.52043
SODIUM, DISSOLVED	31	264.74	122.90	76.00	430.00	29	0.07247	11.17081	0.9693	30.11813
POTASSIUM, DISSOLVED	31	8.66	3.01	4.00	14.00	29	0.00174	2.66041	0.9171	1.23809
CHLORIDE, DISSOLVED	31	177.61	54.83	58.00	260.00	29	0.02545	89.62347	0.7335	38.61575
SULFATE, DISSOLVED	31	1621.29	916.49	410.00	2600.00	29	0.55726	-313.036	0.9814	178.56093
SILICA, DISSOLVED	31	8.73	1.36	6.40	12.00					
DISSOLVED SOLIDS, SUM OF CONST	31	2786.00	1394.28	827.00	4250.00	29	0.84943	-161.706	0.9828	261.46724

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1998

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	8160	5640	5250	4620	2140	1710	1300	1190	1040

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				30	0.00	90.00
MANGANESE (MN), UG/L				31	20.00	240.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09163310 NAME: EAST SALT CREEK NEAR MACK, CO.

LAT 39 17'50" LONG 108 51'58" DRAINAGE AREA: 197.001 SQ MI (510.233 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	33	11.15	7.60	1.00	24.00					
STREAMFLOW, MEAN DAILY, (CFS)	6	0.91	1.01	0.15	2.60					
STREAMFLOW (CUBIC FT/SEC)	23	6.00	15.44	0.14	72.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	31	4390.19	1993.24	890.00	8500.00					
OXYGEN, DISSOLVED	33	9.25	1.41	7.00	12.60					
PH (STANDARD UNITS)	32			7.20	8.50					
BICARBONATE ION	33	458.00	118.14	220.00	605.00	31	0.05218	221.03399	0.8849	55.67630
NITRITE + NITRATE, DISSOLVED AS N	33	0.44	0.27	0.14	1.20					
ORTHOPHOSPHATE, DISSOLVED AS P	33	0.04	0.06	0.00	0.34					
HARDNESS, TOTAL	33	1616.67	717.81	340.00	2500.00	31	0.34748	63.20739	0.9459	241.53648
CALCIUM, DISSOLVED	33	316.58	145.61	62.00	470.00	31	0.06335	36.95963	0.8557	77.64727
MAGNESIUM, DISSOLVED	33	200.18	95.71	44.00	340.00	31	0.04583	-6.47816	0.9598	27.18315
SODIUM, DISSOLVED	33	564.97	281.66	94.00	1100.00	31	0.13033	-26.87964	0.9518	85.14057
POTASSIUM, DISSOLVED	33	6.36	1.78	2.80	13.00					
CHLORIDE, DISSOLVED	33	193.03	101.14	10.00	380.00	31	0.04627	-12.18586	0.8866	48.94403
SULFATE, DISSOLVED	33	2142.73	1047.32	250.00	3700.00	31	0.51633	-176.158	0.9767	229.82819
SILICA, DISSOLVED	31	14.82	3.47	6.20	19.00	29	0.00098	10.53125	0.5353	3.05203
DISSOLVED SOLIDS, SUM OF CONST	31	3661.42	1626.09	634.00	5830.00	29	0.81767	-11.93912	0.9743	375.21472

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1885

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	8820	7140	6620	5800	4340	3120	2000	1230	859

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				32	10.00	190.00
MANGANESE (MN), UG/L				33	10.00	710.00

STATISTICAL SUMMARY OF WATER QUALITY DATA
STATION NUMBER: 09163340 NAME: MACK WASH NEAR MACK, CO.

LAT 39 15'57" LONG 108 50'32" DRAINAGE AREA: 15.901 SQ MI (41.1836 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	32	13.48	4.90	7.00	22.00					
STREAMFLOW, MEAN DAILY, (CFS)	5	15.48	15.70	2.20	33.00					
STREAMFLOW (CUBIC FT/SEC)	27	14.24	24.41	1.40	98.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	32	2866.25	1217.94	875.00	4500.00					
OXYGEN, DISSOLVED	32	8.33	0.82	6.50	10.10					
PH (STANDARD UNITS)	31			7.10	8.60					
BICARBONATE ION	32	223.03	48.21	135.00	272.00	32	0.03812	113.75789	0.9632	13.17578
NITRITE + NITRATE, DISSOLVED AS N	31	1.79	1.21	0.18	3.90					
ORTHOPHOSPHATE, DISSOLVED AS P	31	0.01	0.02	0.00	0.06					
HARDNESS, TOTAL	32	1367.50	697.53	310.00	2000.00	32	0.55771	-231.031	0.9738	161.21483
CALCIUM, DISSOLVED	32	378.13	193.29	85.00	550.00	32	0.15372	-62.48196	0.9686	48.81429
MAGNESIUM, DISSOLVED	32	103.41	53.04	23.00	160.00	32	0.04240	-18.11029	0.9735	12.32435
SODIUM, DISSOLVED	32	185.34	54.57	72.00	240.00	32	0.04177	65.61250	0.9323	20.05741
POTASSIUM, DISSOLVED	32	6.09	1.56	2.90	8.50	32	0.00117	2.73788	0.9117	0.65198
CHLORIDE, DISSOLVED	32	154.75	32.25	80.00	220.00	32	0.01368	115.55309	0.5165	28.07023
SULFATE, DISSOLVED	32	1339.38	729.76	230.00	2000.00	32	0.58371	-333.682	0.9742	167.44465
SILICA, DISSOLVED	30	8.79	1.78	4.90	11.00	30	0.00118	5.42650	0.8307	1.00924
DISSOLVED SOLIDS, SUM OF CONST	30	2277.20	1106.27	572.00	3270.00	30	0.85990	-185.557	0.9786	231.84354

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1888

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	4800	4160	4080	3760	3340	1370	1180	1050	900

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				31	0.00	80.00
MANGANESE (MN), UG/L				32	0.00	90.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09163490 NAME: SALT CREEK NEAR MACK, CO.

LAT 39 13'18" LONG 108 53'32" DRAINAGE AREA: 436.001 SQ MI (1129.24 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	33	10.29	8.13	0.00	23.00					
STREAMFLOW, MEAN DAILY, (CFS)	6	71.33	61.65	10.00	148.00					
STREAMFLOW (CUBIC FT/SEC)	27	71.80	75.45	2.50	245.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	31	3265.16	1546.50	1170.00	5500.00					
OXYGEN, DISSOLVED	29	10.05	1.95	7.30	13.20					
PH (STANDARD UNITS)	30			7.30	8.60					
BICARBONATE ION	33	284.64	82.68	122.00	391.00	31	0.05069	114.09203	0.9476	26.89196
NITRITE + NITRATE, DISSOLVED AS N	33	3.16	1.97	0.71	6.40					
ORTHOPHOSPHATE, DISSOLVED AS P	33	0.03	0.06	0.00	0.37					
HARDNESS, TOTAL	33	1464.85	747.25	450.00	2500.00	31	0.47165	-119.374	0.9740	172.47455
CALCIUM, DISSOLVED	33	318.18	150.03	100.00	510.00	31	0.09189	11.57471	0.9327	55.88493
MAGNESIUM, DISSOLVED	33	163.18	94.67	48.00	300.00	31	0.05931	-37.04033	0.9788	19.54135
SODIUM, DISSOLVED	33	303.64	151.96	100.00	550.00	31	0.09014	-5.92245	0.9698	35.66355
POTASSIUM, DISSOLVED	33	7.37	2.24	3.60	12.00	31	0.00130	3.02129	0.8836	1.08634
CHLORIDE, DISSOLVED	33	168.64	53.50	56.00	260.00	31	0.02407	88.35153	0.6808	40.73021
SULFATE, DISSOLVED	33	1628.18	953.83	390.00	2900.00	31	0.59712	-390.644	0.9809	186.19300
SILICA, DISSOLVED	33	9.15	1.97	4.40	12.00	31	0.00066	6.95902	0.5044	1.78695
DISSOLVED SOLIDS, SUM OF CONST	33	2753.73	1419.67	827.00	4610.00	31	0.89440	-268.653	0.9862	236.59214

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1991

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	6220	5480	5210	4700	2090	1640	1250	1110	903

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				31	0.00	130.00
MANGANESE (MN), UG/L				33	10.00	300.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09163500 NAME: COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LAT 39 07'45" LONG 109 01'36" DRAINAGE AREA: 17843 SQ MI (46213.4 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	50	10.93	7.92	0.00	23.00					
STREAMFLOW, MEAN DAILY, (CFS)	39	6704.87	4412.02	2020.00	15400.00					
STREAMFLOW (CUBIC FT/SEC)	19	5200.53	5261.94	1240.00	21190.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	41	1100.73	357.03	471.00	1830.00					
OXYGEN, DISSOLVED	16	9.20	1.94	7.00	12.20					
PH (STANDARD UNITS)	39			7.00	8.30					
BICARBONATE ION	27	176.74	32.68	108.00	238.00	27	0.08547	85.58662	0.9208	12.99954
NITRITE + NITRATE, DISSOLVED AS N	15	0.94	0.43	0.33	1.80					
ORTHOPHOSPHATE, DISSOLVED AS P	14	0.06	0.08	0.00	0.24					
HARDNESS, TOTAL	27	369.11	141.41	170.00	680.00	27	0.39331	-50.34971	0.9791	29.34684
CALCIUM, DISSOLVED	27	93.15	36.24	45.00	180.00	27	0.09897	-12.40606	0.9615	10.16112
MAGNESIUM, DISSOLVED	27	33.22	13.02	13.00	57.00	27	0.03597	-5.13869	0.9721	3.11310
SODIUM, DISSOLVED	27	89.93	34.00	29.00	150.00	27	0.09415	-10.47990	0.9747	7.75436
POTASSIUM, DISSOLVED	27	3.84	1.07	2.00	5.90	27	0.00276	0.89771	0.9093	0.45388
CHLORIDE, DISSOLVED	27	74.08	28.18	22.00	120.00	27	0.06831	1.22811	0.8532	14.98908
SULFATE, DISSOLVED	27	312.78	156.19	110.00	660.00	27	0.43146	-147.361	0.9724	37.16525
SILICA, DISSOLVED	20	11.30	1.46	8.70	14.00					
BORON, DISSOLVED, UG/L	2	0.06	0.01	0.05	0.06					
DISSOLVED SOLIDS, ROE 180 DEG C	13	763.31	228.27	350.00	1140.00	13	0.84680	-152.799	0.9937	26.78076
DISSOLVED SOLIDS, SUM OF CONST	26	709.69	281.16	286.00	1300.00	26	0.77952	-124.965	0.9933	33.09275

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				5	10.00	50.00
MANGANESE (MN), UG/L				5	0.00	70.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09163530 NAME: COLORADO RIVER BELOW COLORADO-UTAH STATE LINE

LAT 39 05'18" LONG 109 06'01" DRAINAGE AREA: 17900 SQ MI (46361 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, A	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	49	11.19	7.98	0.00	24.50					
STREAMFLOW, MEAN DAILY, (CFS)	196	6014.33	5610.60	1723.00	32420.00					
STREAMFLOW (CUBIC FT/SEC)	50	4838.60	4660.12	1150.00	23100.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	239	1269.93	596.56	395.00	5040.00					
OXYGEN, DISSOLVED	43	9.46	1.67	7.00	12.20					
PH (STANDARD UNITS)	238			7.20	8.40					
BICARBONATE ION	235	191.86	58.81	108.00	539.00	235	0.08814	79.60835	0.8997	25.72910
NITRITE + NITRATE, DISSOLVED AS N	13	0.68	0.24	0.27	1.10					
ORTHOPHOSPHATE, DISSOLVED AS P	12	0.01	0.01	0.00	0.03					
HARDNESS, TOTAL	237	432.16	174.13	150.00	1080.00	237	0.23533	133.10181	0.8095	102.45859
CALCIUM, DISSOLVED	54	111.31	36.36	44.00	200.00	54	0.08786	2.25555	0.9033	15.74725
MAGNESIUM, DISSOLVED	54	38.41	13.85	14.00	73.00	54	0.03538	-5.50739	0.9549	4.15077
SODIUM, DISSOLVED	198	117.49	61.77	17.00	373.00	198	0.11804	-30.69145	0.9634	16.59673
POTASSIUM, DISSOLVED	52	4.27	1.20	1.00	7.30	52	0.00275	0.90612	0.8362	0.66443
CHLORIDE, DISSOLVED	238	104.73	85.13	13.00	838.00	238	0.13090	-61.60998	0.9191	33.62142
SULFATE, DISSOLVED	238	384.18	211.40	61.00	1460.00	238	0.34083	-48.93584	0.9636	56.63263
SILICA, DISSOLVED	52	10.17	1.70	4.10	13.00					
BORON, DISSOLVED, UG/L	6	68.35	55.26	0.05	130.00					
DISSOLVED SOLIDS, ROE 180 DEG C	227	916.42	493.95	243.00	3980.00	226	0.80898	-119.316	0.9937	55.47616
DISSOLVED SOLIDS, SUM OF CONST	48	826.83	286.00	272.00	1550.00	48	0.76051	-91.44579	0.9716	68.36356

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 365

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1990	1730	1650	1420	1250	800	492	453	380

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				14	0.00	3.00
CADMIUM(CD), UG/L				13	0.00	3.00
CHROMIUM (CR), UG/L				14	0.00	10.00
COPPER (CU), UG/L				13	0.00	5.00
IRON (FE), UG/L				23	0.00	140.00
LEAD (PB), UG/L				13	0.00	5.00
MANGANESE (MN), UG/L				23	0.00	60.00
MERCURY (HG), UG/L				14	0.00	0.10
SELENIUM (SE), UG/L				13	3.00	30.00

STATISTICAL SUMMARY OF WATER QUALITY DATA
STATION NUMBER: 09177000 NAME: SAN MIGUEL RIVER AT URAVAN, CO.

LAT 38 21'26" LONG 108 42'44" DRAINAGE AREA: 1499 SQ MI (3882.41 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	234	11.16	7.91	-0.50	26.50					
STREAMFLOW, MEAN DAILY, (CFS)	167	322.38	452.76	5.00	2550.00					
STREAMFLOW (CUBIC FT/SEC)	45	382.20	572.88	14.00	2830.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	237	883.54	416.26	150.00	3000.00					
OXYGEN, DISSOLVED	130	9.84	1.70	6.00	13.40					
PH (STANDARD UNITS)	134			6.30	8.60					
BICARBONATE ION	27	151.30	37.65	68.00	235.00	27	0.04299	113.04807	0.5196	32.80513
NITRITE + NITRATE, DISSOLVED AS N	1	0.28	.	0.28	0.28					
BORON, DISSOLVED, UG/L	1	0.03	.	0.03	0.03					
HARDNESS, TOTAL	26	419.12	207.51	110.00	950.00	25	0.42487	40.78117	0.9494	67.86276
CALCIUM, DISSOLVED	27	100.04	42.53	32.00	230.00	26	0.07257	34.97303	0.7772	27.82826
MAGNESIUM, DISSOLVED	27	41.44	27.15	6.10	124.00	26	0.05885	-11.25711	0.9871	4.51992
SODIUM, DISSOLVED	24	33.76	20.58	4.00	88.00	24	0.04298	-5.07089	0.9698	5.13252
POTASSIUM, DISSOLVED	24	3.32	2.54	0.80	13.00	24	0.00423	-0.50135	0.7729	1.64901
CHLORIDE, DISSOLVED	26	16.08	23.44	2.00	94.00	26	0.03362	-13.88426	0.6656	17.85091
SULFATE, DISSOLVED	26	343.12	218.46	47.00	870.00	26	0.45798	-65.04727	0.9727	51.76171
SILICA, DISSOLVED	22	7.67	1.37	5.70	11.00					
DISSOLVED SOLIDS, ROE 180 DEG C	78	647.41	357.62	140.00	1520.00	78	0.72674	2.26269	0.9657	93.44953
DISSOLVED SOLIDS, SUM OF CONST	24	623.63	324.16	149.00	1350.00	24	0.68388	5.82146	0.9795	66.72688

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				2	0.00	1.00
CADMIUM(CD), UG/L				1	0.00	0.00
COPPER (CU), UG/L				3	8.00	9.00
IRON (FE), UG/L				2	10.00	20.00
LEAD (PB), UG/L				3	3.00	3.00
MANGANESE (MN), UG/L				4	20.00	190.00
MERCURY (HG), UG/L				2	0.00	0.00
SELENIUM (SE), UG/L				3	0.00	2.00
ZINC (ZN), UG/L				3	20.00	50.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09177100 NAME: SAN MIGUEL RIVER BELOW URAVAN, CO.

LAT 38 23'08" LONG 108 45'28" DRAINAGE AREA: 1549 SQ MI (4011.91 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	246	10.95	7.26	0.00	26.00					
STREAMFLOW, MEAN DAILY, (CFS)	184	339.34	486.45	3.00	2550.00					
STREAMFLOW (CUBIC FT/SEC)	57	308.70	450.79	20.00	2220.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	243	1204.72	637.08	180.00	4120.00					
OXYGEN, DISSOLVED	140	9.90	1.62	6.20	13.90					
PH (STANDARD UNITS)	167			6.30	8.80					
BICARBONATE ION	46	128.07	37.16	58.00	203.00	46	0.02978	93.46813	0.4591	33.38232
NITRITE + NITRATE, DISSOLVED AS N	12	3.08	3.42	0.27	11.00					
ORTHOPHOSPHATE, DISSOLVED AS P	12	0.01	0.01	0.00	0.01					
HARDNESS, TOTAL	45	464.29	223.76	110.00	1200.00	45	0.37578	27.84691	0.9730	52.20797
CALCIUM, DISSOLVED	45	101.02	42.88	30.00	240.00	45	0.06590	24.48345	0.8905	19.73236
MAGNESIUM, DISSOLVED	45	51.48	30.37	6.70	150.00	45	0.05144	-8.26768	0.9813	5.91093
SODIUM, DISSOLVED	44	61.29	42.13	7.80	210.00	44	0.06689	-16.94460	0.9262	16.07317
POTASSIUM, DISSOLVED	44	5.40	3.09	1.50	15.00	44	0.00475	-0.15030	0.8968	1.38238
CHLORIDE, DISSOLVED	45	56.43	40.49	4.80	170.00	45	0.05843	-11.43860	0.8362	22.46179
SULFATE, DISSOLVED	45	423.44	253.40	49.00	1300.00	45	0.42811	-73.78530	0.9789	52.38611
SILICA, DISSOLVED	31	7.31	1.37	2.50	10.00					
BORON, DISSOLVED, UG/L	1	90.00	.	90.00	90.00					
DISSOLVED SOLIDS, ROE 180 DEG C	87	844.16	513.33	149.00	2950.00	86	0.73573	-41.09724	0.9908	69.88699
DISSOLVED SOLIDS, SUM OF CONST	44	771.95	408.94	165.00	2110.00	44	0.69360	-39.32434	0.9896	59.57137

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				2	0.00	1.00
COPPER (CU), UG/L				2	9.00	9.00
IRON (FE), UG/L				2	50.00	200.00
LEAD (PB), UG/L				2	3.00	4.00
MANGANESE (MN), UG/L				2	50.00	120.00
MERCURY (HG), UG/L				2	0.00	0.00
SELENIUM (SE), UG/L				2	1.00	5.00
ZINC (ZN), UG/L				2	30.00	40.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09179500 NAME: DOLORES RIVER AT GATEWAY, CO.

LAT 38 40'53" LONG 108 58'47" DRAINAGE AREA: 4347 SQ MI (11258.7 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	192	10.21	7.58	0.00	26.50					
STREAMFLOW, MEAN DAILY, (CFS)	312	811.60	1719.12	10.00	12500.00					
STREAMFLOW (CUBIC FT/SEC)	78	1080.56	1600.55	71.40	6200.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	396	2796.91	1881.68	277.00	8440.00					
OXYGEN, DISSOLVED	80	9.26	1.88	5.40	13.10					
PH (STANDARD UNITS)	256			6.50	8.50					
BICARBONATE ION	183	165.61	33.14	102.00	256.00	183	0.01075	136.98501	0.5942	26.72581
NITRITE + NITRATE, DISSOLVED AS N	37	1.34	0.87	0.23	3.50					
ORTHOPHOSPHATE, DISSOLVED AS P	37	0.03	0.04	0.00	0.18					
HARDNESS, TOTAL	180	409.43	194.08	89.00	1140.00	180	0.09503	158.96942	0.8872	89.79385
CALCIUM, DISSOLVED	180	97.40	38.43	36.00	220.00	180	0.01749	51.30806	0.8246	21.79754
MAGNESIUM, DISSOLVED	180	41.55	24.53	5.60	144.00	180	0.01209	9.69480	0.8927	11.08825
SODIUM, DISSOLVED	146	381.84	314.58	12.00	1200.00	146	0.18095	-71.68190	0.9931	36.93095
POTASSIUM, DISSOLVED	120	17.07	12.46	1.60	69.00	120	0.00661	0.12319	0.9298	4.60451
CHLORIDE, DISSOLVED	194	633.77	532.57	10.00	2400.00	194	0.28904	-144.775	0.9916	69.09472
SULFATE, DISSOLVED	190	300.28	178.04	33.00	1020.00	190	0.07855	89.41035	0.8031	106.37815
SILICA, DISSOLVED	170	8.71	1.92	3.70	19.00					
BORON, DISSOLVED, UG/L	7	82.87	42.67	0.10	130.00					
DISSOLVED SOLIDS, ROE 180 DEG C	137	1531.32	1067.99	171.00	4900.00	137	0.59350	18.87691	0.9938	118.86861
DISSOLVED SOLIDS, SUM OF CONST	52	1676.94	1065.31	212.00	4680.00	52	0.60146	-15.59896	0.9969	83.98916

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				2	10.00	40.00
MANGANESE (MN), UG/L				2	100.00	100.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09243700 NAME: MIDDLE CREEK NEAR OAK CREEK, CO.

LAT 40 23'08" LONG 106 59'33" DRAINAGE AREA: 23.501 SQ MI (60.8676 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	30	9.08	7.76	0.00	22.00					
STREAMFLOW, MEAN DAILY, (CFS)	4	0.71	0.52	0.25	1.30					
STREAMFLOW (CUBIC FT/SEC)	33	3.34	5.94	0.09	24.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	30	631.80	144.58	310.00	850.00					
OXYGEN, DISSOLVED	20	9.46	2.03	6.40	13.20					
PH (STANDARD UNITS)	27			7.20	8.80					
BICARBONATE ION	26	277.12	61.85	140.00	372.00	25	0.35453	54.97137	0.8772	30.32503
NITRITE + NITRATE, DISSOLVED AS N	25	0.28	0.57	0.00	2.30					
ORTHOPHOSPHATE, DISSOLVED AS P	24	0.04	0.04	0.00	0.19					
HARDNESS, TOTAL	26	283.08	60.58	150.00	390.00	25	0.35848	59.31327	0.9238	23.21880
CALCIUM, DISSOLVED	26	67.92	13.96	36.00	93.00	25	0.08222	16.59453	0.9186	5.52623
MAGNESIUM, DISSOLVED	26	27.54	6.31	14.00	39.00	25	0.03710	4.37944	0.9163	2.53377
SODIUM, DISSOLVED	26	26.33	9.40	6.50	42.00	25	0.05650	-8.92942	0.9414	3.16230
POTASSIUM, DISSOLVED	24	3.52	0.97	1.50	6.00	23	0.00313	1.59049	0.4698	0.89530
CHLORIDE, DISSOLVED	23	4.16	1.51	1.10	8.10	22	0.00754	-0.46979	0.7505	1.02115
SULFATE, DISSOLVED	25	106.44	37.96	41.00	210.00	24	0.20427	-21.74511	0.8515	19.76713
SILICA, DISSOLVED	25	8.79	1.90	5.60	14.00	24	-0.00579	12.45599	-0.4591	1.75906
BORON, DISSOLVED, UG/L	25	66.80	32.75	10.00	170.00					
DISSOLVED SOLIDS, SUM OF CONST	23	379.39	93.79	184.00	561.00	22	0.58039	23.16207	0.9439	31.22850

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				9	0.00	2.00
CADMIUM(CD), UG/L				10	0.00	4.00
COPPER (CU), UG/L				8	1.00	13.00
IRON (FE), UG/L				27	0.00	620.00
LEAD (PB), UG/L				10	0.00	7.00
MANGANESE (MN), UG/L				27	30.00	330.00
MERCURY (HG), UG/L				10	0.00	0.50
SELENIUM (SE), UG/L				8	0.00	1.00
ZINC (ZN), UG/L				10	0.00	110.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09244410 NAME: YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO.

LAT 40 29'18" LONG 107 09'33" DRAINAGE AREA: 1430 SQ MI (3703.7 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	66	7.97	5.95	0.00	20.50					
STREAMFLOW, MEAN DAILY, (CFS)	6	1448.50	2404.50	53.00	5960.00					
STREAMFLOW (CUBIC FT/SEC)	64	1263.61	1938.41	38.90	7300.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	65	270.71	108.30	60.00	480.00					
OXYGEN, DISSOLVED	47	9.15	1.59	6.80	12.60					
PH (STANDARD UNITS)	49			7.00	8.60					
BICARBONATE ION	47	102.83	41.36	24.00	159.00	47	0.33588	15.67321	0.9414	14.09929
NITRITE + NITRATE, DISSOLVED AS N	1	0.00	.	0.00	0.00					
ORTHOPHOSPHATE, DISSOLVED AS P	1	0.01	.	0.01	0.01					
HARDNESS, TOTAL	45	97.71	39.78	24.00	170.00	45	0.33335	9.82494	0.9639	10.71368
CALCIUM, DISSOLVED	45	25.14	9.38	6.60	40.00	45	0.07801	4.57018	0.9566	2.76672
MAGNESIUM, DISSOLVED	45	8.36	4.11	1.50	18.00	45	0.03357	-0.48955	0.9403	1.41420
SODIUM, DISSOLVED	43	15.68	8.51	1.90	31.00	43	0.06778	-2.19148	0.9376	2.99552
POTASSIUM, DISSOLVED	41	2.13	0.75	0.60	3.30	41	0.00495	0.80672	0.7760	0.47910
CHLORIDE, DISSOLVED	46	7.52	4.39	0.60	15.00	46	0.02962	-0.14001	0.7893	2.72717
SULFATE, DISSOLVED	47	33.61	23.64	5.00	110.00	47	0.16854	-10.12449	0.8265	13.45478
SILICA, DISSOLVED	42	9.53	3.14	4.90	16.00	42	0.01553	5.47293	0.5869	2.57140
BORON, DISSOLVED, UG/L	41	45.90	15.82	2.00	80.00					
DISSOLVED SOLIDS, SUM OF CONST	40	152.90	70.74	37.00	280.00	40	0.56677	5.22854	0.9723	16.73646

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				11	0.00	4.00
CADMIUM(CD), UG/L				12	0.00	6.00
CHROMIUM (CR), UG/L				11	0.00	10.00
COPPER (CU), UG/L				12	0.00	20.00
IRON (FE), UG/L				41	20.00	310.00
LEAD (PB), UG/L				12	0.00	30.00
MANGANESE (MN), UG/L				12	0.00	40.00
MERCURY (HG), UG/L				12	0.00	1.10
SELENIUM (SE), UG/L				12	0.00	0.00
ZINC (ZN), UG/L				11	0.00	40.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09246550 NAME: YAMPA RIVER BELOW ELKHEAD CREEK NEAR CRAIG, CO.

LAT 40 29'50" LONG 107 30'34"

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	40	8.60	7.31	0.00	22.00					
STREAMFLOW, MEAN DAILY, (CFS)	12	1074.33	1553.59	104.00	5140.00					
STREAMFLOW (CUBIC FT/SEC)	5	1942.60	2410.54	123.00	5900.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	40	328.72	129.68	80.00	650.00					
OXYGEN, DISSOLVED	36	8.99	1.96	5.90	13.00					
PH (STANDARD UNITS)	38			7.30	8.70					
BICARBONATE ION	39	120.67	40.32	32.00	190.00	39	0.27388	30.85547	0.8917	18.49293
NITRITE + NITRATE, DISSOLVED AS N	1	0.01	.	0.01	0.01					
HARDNESS, TOTAL	39	118.67	42.81	30.00	220.00	39	0.31440	15.56852	0.9641	11.52768
CALCIUM, DISSOLVED	39	29.61	9.52	8.10	47.00	39	0.06834	7.20252	0.9426	3.22226
MAGNESIUM, DISSOLVED	39	10.84	4.70	2.00	24.00	39	0.03423	-0.38371	0.9555	1.40670
SODIUM, DISSOLVED	39	21.28	11.69	3.30	66.00	39	0.08185	-5.55752	0.9190	4.67081
POTASSIUM, DISSOLVED	39	2.65	1.40	0.80	9.30	39	0.00477	1.08339	0.4467	1.27190
CHLORIDE, DISSOLVED	39	9.32	4.80	1.40	22.00	39	0.02945	-0.34235	0.8050	2.88791
SULFATE, DISSOLVED	39	51.40	33.08	8.40	170.00	39	0.22111	-21.10582	0.8774	16.08214
SILICA, DISSOLVED	38	8.11	2.77	3.20	15.00					
BORON, DISSOLVED, UG/L	39	56.15	23.44	4.00	120.00					
DISSOLVED SOLIDS, SUM OF CONST	38	193.47	79.04	48.00	407.00	38	0.57727	4.12845	0.9717	18.93740

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				11	0.00	1.00
CADMIUM(CD), UG/L				11	0.00	3.00
CHROMIUM (CR), UG/L				11	0.00	10.00
COPPER (CU), UG/L				12	0.00	20.00
IRON (FE), UG/L				39	20.00	320.00
LEAD (PB), UG/L				12	0.00	22.00
MANGANESE (MN), UG/L				12	0.00	50.00
MERCURY (HG), UG/L				12	0.00	2.20
SELENIUM (SE), UG/L				12	0.00	2.00
ZINC (ZN), UG/L				12	0.00	20.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09247600 NAME: YAMPA RIVER BELOW CRAIG, CO.

LAT 40 29'04" LONG 107 36'23"

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, R	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	39	9.59	7.55	0.00	24.00					
STREAMFLOW (CUBIC FT/SEC)	41	1513.31	2420.87	10.70	8800.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	39	319.05	135.63	78.00	610.00					
OXYGEN, DISSOLVED	34	9.79	1.41	6.90	12.90					
PH (STANDARD UNITS)	39			7.10	8.90					
BICARBONATE ION	38	118.71	47.93	27.00	220.00	38	0.32201	16.40490	0.9218	18.83945
NITRITE + NITRATE, DISSOLVED AS N	1	0.01	.	0.01	0.01					
HARDNESS, TOTAL	37	116.95	47.54	25.00	220.00	37	0.33562	10.78950	0.9799	9.61126
CALCIUM, DISSOLVED	38	28.73	10.94	6.70	47.00	38	0.07450	5.05862	0.9345	3.94781
MAGNESIUM, DISSOLVED	37	10.76	5.08	1.90	25.00	37	0.03538	-0.42852	0.9661	1.33145
SODIUM, DISSOLVED	37	22.99	13.04	2.60	62.00	37	0.08674	-4.44771	0.9235	5.07300
POTASSIUM, DISSOLVED	38	2.29	0.89	0.70	4.10	38	0.00492	0.72677	0.7620	0.58138
CHLORIDE, DISSOLVED	38	9.03	4.56	0.90	16.00	38	0.02290	1.75550	0.6883	3.35674
SULFATE, DISSOLVED	38	57.16	35.24	6.50	180.00	38	0.23053	-16.07729	0.8974	15.76819
SILICA, DISSOLVED	36	7.26	2.66	0.90	12.00					
BORON, DISSOLVED, UG/L	38	65.53	31.51	20.00	190.00					
DISSOLVED SOLIDS, SUM OF CONST	36	194.94	87.38	44.00	393.00	36	0.61303	2.47109	0.9825	16.51438

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				9	0.00	1.00
CADMIUM(CD), UG/L				10	0.00	1.00
CHROMIUM (CR), UG/L				8	0.00	10.00
COPPER (CU), UG/L				10	0.00	7.00
IRON (FE), UG/L				37	0.00	370.00
LEAD (PB), UG/L				10	0.00	12.00
MANGANESE (MN), UG/L				10	0.00	60.00
MERCURY (HG), UG/L				10	0.00	0.00
SELENIUM (SE), UG/L				10	0.00	2.00
ZINC (ZN), UG/L				10	0.00	20.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09249750 NAME: WILLIAMS FORK AT MOUTH, NEAR HAMILTON, CO.

LAT 40 26'14" LONG 107 38'50"

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	38	9.93	7.98	0.00	26.00					
STREAMFLOW, MEAN DAILY, (CFS)	5	44.08	28.77	1.40	82.00					
STREAMFLOW (CUBIC FT/SEC)	46	156.33	284.53	5.80	1230.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	40	412.17	140.42	128.00	860.00					
OXYGEN, DISSOLVED	32	9.78	1.51	6.70	13.20					
PH (STANDARD UNITS)	41			7.10	8.70					
BICARBONATE ION	39	191.74	56.95	82.00	330.00	38	0.39173	31.27134	0.9472	18.28231
NITRITE + NITRATE, DISSOLVED AS N	1	0.01	.	0.01	0.01					
HARDNESS, TOTAL	39	199.69	65.05	74.00	340.00	39	0.43924	18.73572	0.9606	18.33016
CALCIUM, DISSOLVED	39	43.92	11.16	20.00	61.00	39	0.06416	17.49198	0.8179	6.50511
MAGNESIUM, DISSOLVED	39	21.79	9.96	5.90	53.00	39	0.06845	-6.41203	0.9775	2.12820
SODIUM, DISSOLVED	37	18.58	12.60	3.40	78.00	37	0.07869	-14.15605	0.9041	5.46295
POTASSIUM, DISSOLVED	37	2.02	0.98	0.70	5.10	36	0.00499	-0.12195	0.8091	0.53959
CHLORIDE, DISSOLVED	39	4.03	2.69	0.50	16.00	38	0.01630	-2.74548	0.8728	1.33195
SULFATE, DISSOLVED	39	70.21	40.81	14.00	220.00	39	0.25238	-33.76700	0.8797	19.67169
SILICA, DISSOLVED	38	10.84	2.42	2.60	15.00					
BORON, DISSOLVED, UG/L	37	46.22	21.39	20.00	130.00					
DISSOLVED SOLIDS, ROE 180 DEG C	2	210.00	25.46	192.00	228.00	2	0.52941	31.05894	1.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	34	258.18	87.83	96.00	421.00	34	0.71995	-25.50456	0.9683	22.26606

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				9	0.00	2.00
CADMIUM(CD), UG/L				10	0.00	2.00
CHROMIUM (CR), UG/L				8	0.00	20.00
COPPER (CU), UG/L				10	0.00	8.00
IRON (FE), UG/L				37	10.00	250.00
LEAD (PB), UG/L				10	0.00	8.00
MANGANESE (MN), UG/L				10	0.00	50.00
MERCURY (HG), UG/L				10	0.00	0.00
SELENIUM (SE), UG/L				10	0.00	1.00
ZINC (ZN), UG/L				10	0.00	30.00

STATISTICAL SUMMARY OF WATER QUALITY DATA
STATION NUMBER: 09250400 NAME: GOOD SPRING CREEK AT AXIAL, CO.

LAT 40 17'25" LONG 107 47'22" DRAINAGE AREA: 40.001 SQ MI (103.603 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	85	8.81	7.27	0.00	25.00					
STREAMFLOW, MEAN DAILY, (CFS)	9	0.54	0.44	0.17	1.40					
STREAMFLOW (CUBIC FT/SEC)	93	5.63	41.47	0.02	400.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	64	1619.06	230.08	1100.00	2320.00					
OXYGEN, DISSOLVED	28	9.23	1.53	6.30	14.00					
PH (STANDARD UNITS)	48			7.90	8.80					
BICARBONATE ION	31	514.65	55.99	386.00	628.00	31	0.12723	317.23953	0.5739	46.63635
NITRITE + NITRATE, DISSOLVED AS N	31	0.28	0.28	0.01	1.00					
ORTHOPHOSPHATE, DISSOLVED AS P	30	0.01	0.01	0.00	0.04					
HARDNESS, TOTAL	31	841.94	119.90	590.00	1200.00	31	0.38721	241.12945	0.8156	70.56321
CALCIUM, DISSOLVED	31	113.52	15.47	84.00	160.00	31	0.02424	75.91085	0.3958	14.44586
MAGNESIUM, DISSOLVED	31	135.16	22.71	83.00	190.00	31	0.07669	16.17484	0.8528	12.06298
SODIUM, DISSOLVED	31	68.68	18.26	38.00	110.00	31	0.05961	-23.81988	0.8245	10.50924
POTASSIUM, DISSOLVED	31	11.45	1.46	6.90	14.00	31	0.00206	8.26116	0.3567	1.38324
CHLORIDE, DISSOLVED	31	17.87	5.04	11.00	34.00	31	0.00981	2.64497	0.4913	4.46916
SULFATE, DISSOLVED	32	511.56	97.36	330.00	830.00	32	0.33447	-7.80644	0.8539	51.51296
SILICA, DISSOLVED	30	12.36	1.75	9.70	15.00					
BORON, DISSOLVED, UG/L	24	233.33	55.30	140.00	360.00					
DISSOLVED SOLIDS, ROE 180 DEG C	1	1360.00	.	1360.00	1360.00	1	0.00000	1360	0.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	30	1121.20	166.73	797.00	1620.00	30	0.56523	246.97192	0.8656	84.96484

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 974

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	2140	2000	1920	1720	1400	252	207	192	126

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				11	0.00	5.00
CADMIUM(CD), UG/L				11	0.00	2.00
CHROMIUM (CR), UG/L				1	0.00	0.00
COPPER (CU), UG/L				11	0.00	13.00
IRON (FE), UG/L				30	10.00	200.00
LEAD (PB), UG/L				12	0.00	11.00
MANGANESE (MN), UG/L				31	10.00	180.00
MERCURY (HG), UG/L				11	0.00	0.50
SELENIUM (SE), UG/L				9	1.00	3.00
ZINC (ZN), UG/L				12	0.00	20.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09250600 NAME: WILSON CREEK NEAR AXIAL, CO.

LAT 40 18'56" LONG 107 47'50" DRAINAGE AREA: 20.101 SQ MI (52.0615 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	56	8.88	6.62	0.00	21.50					
STREAMFLOW (CUBIC FT/SEC)	53	1.48	2.95	0.12	18.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	42	1845.48	332.35	860.00	2600.00					
OXYGEN, DISSOLVED	38	9.72	1.35	7.00	12.80					
PH (STANDARD UNITS)	42			7.50	8.50					
BICARBONATE ION	40	458.45	63.93	280.00	536.00	40	0.15005	181.57765	0.7958	39.22178
NITRITE + NITRATE, DISSOLVED AS N	40	0.44	0.24	0.13	1.10					
ORTHOPHOSPHATE, DISSOLVED AS P	39	0.01	0.01	0.00	0.06					
HARDNESS, TOTAL	41	704.39	126.99	350.00	880.00	41	0.33353	90.11986	0.8814	60.75288
CALCIUM, DISSOLVED	41	104.34	13.01	70.00	120.00	41	0.02861	51.65371	0.7378	8.89381
MAGNESIUM, DISSOLVED	41	107.76	24.27	43.00	140.00	41	0.06317	-8.58789	0.8734	11.97095
SODIUM, DISSOLVED	41	159.56	28.68	70.00	190.00	41	0.07162	27.65319	0.8380	15.84914
POTASSIUM, DISSOLVED	41	9.40	1.27	5.70	13.00	41	0.00261	4.59117	0.6924	0.92554
CHLORIDE, DISSOLVED	41	148.93	27.50	58.00	190.00	41	0.04564	64.87773	0.5568	23.13615
SULFATE, DISSOLVED	41	438.54	110.81	150.00	600.00	41	0.28591	-88.03133	0.8659	56.13920
SILICA, DISSOLVED	40	13.76	2.05	8.50	17.00	40	0.00347	7.35288	0.5718	1.70426
BORON, DISSOLVED, UG/L	36	198.61	46.67	0.00	280.00					
DISSOLVED SOLIDS, SUM OF CONST	39	1222.74	209.93	577.00	1450.00	39	0.55884	188.32531	0.9091	88.64645

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1138

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	2560	2100	2010	1940	1750	392	244	181	78

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				14	0.00	1.00
CADMIUM(CD), UG/L				15	0.00	2.00
CHROMIUM (CR), UG/L				3	0.00	0.00
COPPER (CU), UG/L				13	0.00	23.00
IRON (FE), UG/L				41	0.00	280.00
LEAD (PB), UG/L				15	0.00	12.00
MANGANESE (MN), UG/L				42	10.00	110.00
MERCURY (HG), UG/L				15	0.00	1.50
SELENIUM (SE), UG/L				13	2.00	9.00
ZINC (ZN), UG/L				14	0.00	30.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09251000 NAME: YAMPA RIVER NEAR MAYBELL, CO.

LAT 40 30'10" LONG 108 01'45" DRAINAGE AREA: 3410 SQ MI (8831.9 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	141	9.16	8.23	0.00	24.50					
STREAMFLOW, MEAN DAILY, (CFS)	655	1744.46	2426.56	35.50	12650.00					
STREAMFLOW (CUBIC FT/SEC)	57	1544.60	2781.43	31.80	13600.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	703	418.09	175.58	100.00	1100.00					
OXYGEN, DISSOLVED	83	9.66	1.46	6.80	13.80					
PH (STANDARD UNITS)	697			6.60	8.90					
BICARBONATE ION	661	150.08	51.59	40.00	283.00	659	0.27831	33.70273	0.9501	16.10023
NITRITE + NITRATE, DISSOLVED AS N	44	0.25	0.30	0.00	1.00					
ORTHOPHOSPHATE, DISSOLVED AS P	41	0.02	0.04	0.00	0.24					
HARDNESS, TOTAL	664	145.30	53.45	37.00	380.00	662	0.29155	23.83499	0.9611	14.78528
CALCIUM, DISSOLVED	497	35.47	11.11	6.00	104.00	495	0.06066	9.63102	0.9229	4.28192
MAGNESIUM, DISSOLVED	497	14.59	6.24	1.70	37.00	495	0.03454	-0.11724	0.9358	2.20125
SODIUM, DISSOLVED	500	33.72	19.40	3.90	160.00	498	0.10984	-13.03136	0.9546	5.79508
POTASSIUM, DISSOLVED	458	2.60	0.96	0.80	7.80	456	0.00347	1.12530	0.6071	0.76212
CHLORIDE, DISSOLVED	665	17.73	13.60	1.00	130.00	663	0.06397	-8.91786	0.8287	7.62866
SULFATE, DISSOLVED	664	68.89	39.75	8.10	247.00	662	0.20875	-18.10891	0.9266	14.96589
SILICA, DISSOLVED	499	9.67	3.56	2.00	19.00					
BORON, DISSOLVED, UG/L	215	67.16	43.43	0.00	430.00					
DISSOLVED SOLIDS, ROE 180 DEG C	622	258.86	107.68	64.00	677.00	620	0.60478	7.95523	0.9909	14.53406
DISSOLVED SOLIDS, SUM OF CONST	122	283.07	117.92	51.00	697.00	121	0.64144	-6.92215	0.9905	16.27677

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 8089

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	807	698	624	550	464	292	153	131	110

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				16	0.00	2.00
CADMIUM(CD), UG/L				17	0.00	3.00
CHROMIUM (CR), UG/L				14	0.00	10.00
COPPER (CU), UG/L				17	1.00	13.00
IRON (FE), UG/L				152	10.00	370.00
LEAD (PB), UG/L				17	0.00	23.00
MANGANESE (MN), UG/L				49	0.00	50.00
MERCURY (HG), UG/L				16	0.00	0.20
SELENIUM (SE), UG/L				17	0.00	2.00
ZINC (ZN), UG/L				17	0.00	60.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09259700 NAME: LITTLE SNAKE RIVER NEAR BAGGS, WY.

LAT 41 00'11" LONG 107 55'11" DRAINAGE AREA: 3020 SQ MI (7821.8 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	113	9.06	7.90	0.00	26.50					
STREAMFLOW, MEAN DAILY, (CFS)	99	684.98	1195.29	0.20	4800.00					
STREAMFLOW (CUBIC FT/SEC)	19	1046.54	1266.51	0.69	3400.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	105	514.49	391.08	120.00	2960.00					
OXYGEN, DISSOLVED	23	9.42	1.19	7.30	11.90					
PH (STANDARD UNITS)	106			7.10	8.80					
BICARBONATE ION	97	168.63	66.19	46.00	310.00	84	0.10811	119.81650	0.7055	45.83230
NITRITE + NITRATE, DISSOLVED AS N	2	0.09	0.11	0.01	0.17					
ORTHOPHOSPHATE, DISSOLVED AS P	1	0.00	.	0.00	0.00					
HARDNESS, TOTAL	97	146.31	62.83	40.00	404.00	84	0.12638	87.38605	0.8509	32.93548
CALCIUM, DISSOLVED	97	38.57	13.83	9.90	78.00	84	0.02186	28.91221	0.6886	9.71505
MAGNESIUM, DISSOLVED	97	12.05	7.81	0.30	51.00	84	0.01743	3.63734	0.9080	3.39469
SODIUM, DISSOLVED	97	48.51	76.37	3.10	570.00	84	0.18833	-43.95505	0.9769	17.37304
POTASSIUM, DISSOLVED	97	2.35	1.10	0.60	6.70	84	0.00230	1.23914	0.8534	0.59311
CHLORIDE, DISSOLVED	97	19.40	42.03	0.00	294.00	84	0.10244	-31.09516	0.9602	12.58378
SULFATE, DISSOLVED	97	83.38	113.81	6.60	909.00	84	0.27946	-53.49854	0.9769	25.80572
SILICA, DISSOLVED	97	13.50	4.74	1.70	26.00	84	-0.00373	15.86560	-0.3318	4.47144
BORON, DISSOLVED, UG/L	80	58.88	45.06	0.00	230.00					
DISSOLVED SOLIDS, ROE 180 DEG C	79	334.10	282.94	88.00	2050.00	79	0.65995	-5.51176	0.9962	24.72291
DISSOLVED SOLIDS, SUM OF CONST	67	272.93	159.16	58.00	825.00	54	0.60886	4.95413	0.9959	14.77690

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				1	1.00	1.00
CADMIUM(CD), UG/L				2	0.00	1.00
CHROMIUM (CR), UG/L				1	5.00	5.00
COPPER (CU), UG/L				2	2.00	2.00
IRON (FE), UG/L				8	20.00	310.00
LEAD (PB), UG/L				2	0.00	7.00
MANGANESE (MN), UG/L				2	0.00	20.00
MERCURY (HG), UG/L				2	0.00	0.00
SELENIUM (SE), UG/L				2	0.00	1.00
ZINC (ZN), UG/L				2	10.00	10.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09259950 NAME: LITTLE SNAKE RIVER ABOVE LILY, CO.

LAT 40 36'27" LONG 108 20'11"

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	131	13.71	6.79	0.00	28.50					
STREAMFLOW, MEAN DAILY, (CFS)	776	546.11	869.59	0.03	6806.00					
STREAMFLOW (CUBIC FT/SEC)	70	729.77	1053.53	3.60	4580.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	666	686.14	402.74	154.00	3150.00					
PH (STANDARD UNITS)	657			7.00	8.60					
BICARBONATE ION	661	197.86	60.61	76.00	576.00	661	0.11547	118.52195	0.7672	38.90140
HARDNESS, TOTAL	660	188.50	110.79	64.00	1340.00	660	0.22369	34.88247	0.8135	64.48208
CALCIUM, DISSOLVED	454	55.26	36.45	17.00	473.00	453	0.06909	7.27545	0.7739	23.13317
MAGNESIUM, DISSOLVED	453	12.95	6.78	1.60	54.00	452	0.01191	4.67606	0.7180	4.72504
SODIUM, DISSOLVED	462	82.73	66.48	5.10	595.00	461	0.15994	-28.35324	0.9513	20.53818
POTASSIUM, DISSOLVED	397	3.19	1.98	0.60	12.00	397	0.00388	0.47678	0.8000	1.18644
CHLORIDE, DISSOLVED	663	28.77	28.43	0.60	375.00	663	0.06055	-12.86551	0.8582	14.60304
SULFATE, DISSOLVED	661	159.69	157.54	8.10	1420.00	661	0.36948	-93.94273	0.9447	51.71079
SILICA, DISSOLVED	460	17.10	3.76	7.60	31.00	459	0.00270	15.19780	0.2960	3.57049
BORON, DISSOLVED, UG/L	203	89.80	50.81	0.00	500.00					
DISSOLVED SOLIDS, ROE 180 DEG C	645	454.13	283.87	108.00	2180.00	645	0.72304	-36.70091	0.9908	38.54157
DISSOLVED SOLIDS, SUM OF CONST	11	647.73	644.64	139.00	2330.00	11	0.84944	-130.749	0.9873	108.11385

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 5190

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1680	1350	1120	774	574	382	209	184	156

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				93	0.00	450.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09260000 NAME: LITTLE SNAKE RIVER NEAR LILY, CO.

LAT 40 32'50" LONG 108 25'25" DRAINAGE AREA: 3730 SQ MI (9660.7 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	141	8.61	8.00	0.00	28.00					
STREAMFLOW, MEAN DAILY, (CFS)	330	555.74	1029.10	0.03	6806.00					
STREAMFLOW (CUBIC FT/SEC)	112	711.79	1113.80	1.10	4360.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	378	670.88	345.80	140.00	1850.00					
OXYGEN, DISSOLVED	86	8.76	1.55	4.70	12.20					
PH (STANDARD UNITS)	365			7.00	8.60					
BICARBONATE ION	333	202.84	60.38	67.00	462.00	332	0.12758	114.66262	0.7634	38.01237
NITRITE + NITRATE, DISSOLVED AS N	48	0.17	0.19	0.00	0.90					
ORTHOPHOSPHATE, DISSOLVED AS P	46	0.02	0.01	0.00	0.06					
HARDNESS, TOTAL	334	191.52	86.66	58.00	930.00	333	0.18983	60.83169	0.7973	50.06258
CALCIUM, DISSOLVED	326	53.40	23.64	16.00	301.00	326	0.05356	17.03427	0.7844	14.68940
MAGNESIUM, DISSOLVED	325	13.78	5.86	2.90	44.00	325	0.01267	5.18773	0.7481	3.89638
SODIUM, DISSOLVED	326	78.55	58.79	5.10	380.00	326	0.16144	-31.18970	0.9512	18.16778
POTASSIUM, DISSOLVED	321	3.10	1.65	0.60	10.00	321	0.00377	0.57501	0.7744	1.04366
CHLORIDE, DISSOLVED	337	28.37	25.21	1.00	170.00	336	0.06347	-15.21543	0.8897	11.37255
SULFATE, DISSOLVED	335	154.39	125.33	12.00	885.00	334	0.33202	-73.55506	0.9624	32.65362
SILICA, DISSOLVED	331	16.87	3.97	8.40	31.00	331	0.00272	15.01671	0.2384	3.86477
BORON, DISSOLVED, UG/L	103	74.43	44.93	0.00	220.00					
DISSOLVED SOLIDS, ROE 180 DEG C	282	460.74	247.71	96.00	1600.00	282	0.69954	-24.22863	0.9936	27.92396
DISSOLVED SOLIDS, SUM OF CONST	100	395.68	213.51	91.00	1410.00	100	0.68253	-17.07593	0.9918	27.37635

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 830

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1360	1130	1050	701	554	430	253	190	144

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				14	1.00	18.00
CADMIUM(CD), UG/L				15	0.00	2.00
CHROMIUM (CR), UG/L				13	0.00	40.00
COPPER (CU), UG/L				15	1.00	14.00
IRON (FE), UG/L				50	0.00	980.00
LEAD (PB), UG/L				15	0.00	6.00
MANGANESE (MN), UG/L				51	0.00	150.00
MERCURY (HG), UG/L				15	0.00	0.30
SELENIUM (SE), UG/L				15	0.00	4.00
ZINC (ZN), UG/L				15	0.00	100.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09304800 NAME: WHITE RIVER BELOW MEEKER, CO.

LAT 40 00'48" LONG 108 05'33" DRAINAGE AREA: 1024 SQ MI (2652.16 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	88	9.61	6.71	0.00	25.00					
STREAMFLOW, MEAN DAILY, (CFS)	13	574.35	709.38	0.50	2730.00					
STREAMFLOW (CUBIC FT/SEC)	81	612.47	674.91	115.00	3890.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	82	635.13	177.79	220.00	1100.00					
OXYGEN, DISSOLVED	43	10.04	1.97	6.50	13.60					
PH (STANDARD UNITS)	61			6.30	8.70					
BICARBONATE ION	54	179.37	37.82	107.00	320.00	50	0.19087	59.87790	0.7976	23.73460
HARDNESS, TOTAL	54	260.19	63.02	120.00	440.00	51	0.37946	21.61118	0.9455	21.26404
CALCIUM, DISSOLVED	54	70.85	15.63	33.00	110.00	50	0.09398	11.57478	0.9435	5.42451
MAGNESIUM, DISSOLVED	54	19.98	6.24	7.90	40.00	51	0.03504	-1.98395	0.8855	2.99230
SODIUM, DISSOLVED	54	34.42	14.24	6.60	83.00	51	0.08314	-18.20666	0.9166	5.90038
POTASSIUM, DISSOLVED	54	1.99	0.78	1.00	6.00					
CHLORIDE, DISSOLVED	54	32.05	12.95	4.80	66.00	51	0.07436	-15.06751	0.8996	5.87595
SULFATE, DISSOLVED	53	132.51	46.59	30.00	260.00	50	0.27503	-40.50714	0.9333	17.38864
SILICA, DISSOLVED	42	14.40	2.65	5.80	20.00					
BORON, DISSOLVED, UG/L	36	40.28	22.36	10.00	120.00					
DISSOLVED SOLIDS, ROE 180 DEG C	27	381.07	108.44	160.00	524.00	25	0.70687	-20.66739	0.9618	31.50314
DISSOLVED SOLIDS, SUM OF CONST	41	403.61	118.60	146.00	734.00	38	0.67189	-27.16262	0.9532	37.70418

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 62

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	706	699	675	652	634	573	488	479	453

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				27	0.00	3.00
CADMIUM(CD), UG/L				9	0.00	1.00
CHROMIUM (CR), UG/L				7	0.00	10.00
COPPER (CU), UG/L				9	0.00	5.00
IRON (FE), UG/L				37	0.00	120.00
LEAD (PB), UG/L				8	0.00	5.00
MANGANESE (MN), UG/L				27	0.00	170.00
MERCURY (HG), UG/L				10	0.00	0.30
SELENIUM (SE), UG/L				23	0.00	4.00
ZINC (ZN), UG/L				10	0.00	60.00

STATISTICAL SUMMARY OF WATER QUALITY DATA
STATION NUMBER: 09306007 NAME: PICEANCE CREEK BELOW RIO BLANCO, CO.

LAT 39 49'34" LONG 108 10'57" DRAINAGE AREA: 177.001 SQ MI (458.433 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	104	10.06	6.16	0.00	25.00					
STREAMFLOW, MEAN DAILY, (CFS)	18	10.46	9.38	1.10	36.00					
STREAMFLOW (CUBIC FT/SEC)	88	14.19	17.79	2.18	88.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	97	1074.63	128.36	625.00	1410.00					
OXYGEN, DISSOLVED	93	22.31	112.23	6.80	1090.00					
PH (STANDARD UNITS)	92			6.90	8.70					
BICARBONATE ION	94	544.48	99.07	317.00	950.00	94	0.38119	133.26312	0.4736	87.72481
NITRITE + NITRATE, DISSOLVED AS N	76	0.33	0.35	0.00	2.50					
ORTHOPHOSPHATE, DISSOLVED AS P	76	0.02	0.04	0.00	0.36					
HARDNESS, TOTAL	77	363.25	31.05	270.00	440.00	77	0.18692	161.19699	0.6713	23.16954
CALCIUM, DISSOLVED	77	68.32	8.60	22.00	81.00	77	0.02559	40.66397	0.3318	8.16816
MAGNESIUM, DISSOLVED	77	46.58	4.83	33.00	57.00	77	0.02959	14.60134	0.6836	3.54621
SODIUM, DISSOLVED	77	124.22	19.49	47.00	160.00	77	0.13390	-20.51635	0.7663	12.60257
POTASSIUM, DISSOLVED	78	3.42	1.92	2.20	19.00					
CHLORIDE, DISSOLVED	77	14.97	2.42	9.00	24.00	77	0.00989	4.28346	0.4551	2.17150
SULFATE, DISSOLVED	77	166.36	17.98	110.00	210.00	77	0.10234	55.73984	0.6346	13.99128
SILICA, DISSOLVED	76	15.46	1.52	12.00	18.00	76	0.00584	9.15970	0.4284	1.38115
BORON, DISSOLVED, UG/L	72	207.08	41.16	110.00	290.00					
DISSOLVED SOLIDS, ROE 180 DEG C	1	653.00	.	653.00	653.00	1	0.00000	653.00000	0.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	75	697.59	67.72	502.00	829.00	75	0.50333	153.09149	0.8189	39.12962

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 870

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1290	1230	1180	1120	1070	994	874	829	626

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				70	0.00	5.00
CADMIUM(CD), UG/L				48	0.00	4.00
CHROMIUM (CR), UG/L				24	0.00	90.00
COPPER (CU), UG/L				52	0.00	12.00
IRON (FE), UG/L				75	0.00	390.00
LEAD (PB), UG/L				48	0.00	39.00
MANGANESE (MN), UG/L				72	10.00	280.00
MERCURY (HG), UG/L				54	0.00	0.80
SELENIUM (SE), UG/L				55	0.00	3.00
ZINC (ZN), UG/L				53	0.00	60.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09306022 NAME: STEWART GULCH AB WEST FORK, NEAR RIO BLANCO, CO.

LAT 39 48'48" LONG 108 11'00" DRAINAGE AREA: 44.001 SQ MI (113.963 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	63	9.44	3.58	1.00	18.00					
STREAMFLOW, MEAN DAILY, (CFS)	7	2.07	0.46	1.30	2.70					
STREAMFLOW (CUBIC FT/SEC)	58	1.93	1.00	0.02	8.17					
SPECIFIC CONDUCTANCE (MICROMHOS)	60	1349.17	98.48	1000.00	1750.00					
OXYGEN, DISSOLVED	56	9.63	1.17	6.40	12.10					
PH (STANDARD UNITS)	62			7.40	8.80					
BICARBONATE ION	61	491.84	54.77	299.00	782.00	60	0.22507	188.13800	0.4013	51.02470
NITRITE + NITRATE, DISSOLVED AS N	59	1.40	0.28	0.72	1.90					
ORTHOPHOSPHATE, DISSOLVED AS P	61	0.01	0.01	0.00	0.05					
HARDNESS, TOTAL	61	549.51	21.79	460.00	610.00					
CALCIUM, DISSOLVED	61	93.43	4.46	73.00	99.00					
MAGNESIUM, DISSOLVED	61	76.64	4.34	64.00	95.00					
SODIUM, DISSOLVED	61	124.00	21.62	24.00	250.00	60	0.11086	-25.50846	0.5010	19.02362
POTASSIUM, DISSOLVED	61	1.62	0.54	1.10	4.80					
CHLORIDE, DISSOLVED	61	7.16	1.38	5.80	16.00	60	0.00693	-2.19796	0.4897	1.22612
SULFATE, DISSOLVED	61	367.05	24.38	320.00	490.00					
SILICA, DISSOLVED	61	15.20	1.05	11.00	17.00					
BORON, DISSOLVED, UG/L	58	95.09	66.04	30.00	530.00					
DISSOLVED SOLIDS, ROE 180 DEG C	1	929.00	.	929.00	929.00	1	0.00000	929.00000	0.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	61	935.74	51.01	703.00	1160.00	60	0.27538	564.20397	0.5272	44.08417

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 843

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1410	1400	1390	1360	1300	1230	1190	1150	1100

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				56	0.00	4.00
CADMIUM(CD), UG/L				40	0.00	7.00
CHROMIUM (CR), UG/L				23	0.00	20.00
COPPER (CU), UG/L				40	0.00	8.00
IRON (FE), UG/L				56	0.00	130.00
LEAD (PB), UG/L				37	0.00	9.00
MANGANESE (MN), UG/L				53	0.00	60.00
MERCURY (HG), UG/L				40	0.00	0.40
SELENIUM (SE), UG/L				42	0.00	2.00
ZINC (ZN), UG/L				42	0.00	370.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09306025 NAME: WEST FORK STEWART GULCH NEAR RIO BLANCO, CO.

LAT 39 47'01" LONG 108 11'21" DRAINAGE AREA: 14.201 SQ MI (36.7806 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	45	14.90	8.26	0.00	30.00					
STREAMFLOW, MEAN DAILY, (CFS)	24	0.07	0.22	0.01	1.10					
STREAMFLOW (CUBIC FT/SEC)	25	0.05	0.04	0.01	0.15					
SPECIFIC CONDUCTANCE (MICROMHOS)	40	1558.50	250.95	360.00	2070.00					
OXYGEN, DISSOLVED	35	8.87	1.49	5.00	11.80					
PH (STANDARD UNITS)	40			7.40	8.90					
BICARBONATE ION	40	504.30	95.16	151.00	757.00	40	0.31551	12.57089	0.8320	53.48044
NITRITE + NITRATE, DISSOLVED AS N	40	0.11	0.23	0.00	1.30					
ORTHOPHOSPHATE, DISSOLVED AS P	40	0.02	0.04	0.00	0.26					
HARDNESS, TOTAL	40	611.75	98.63	140.00	820.00	40	0.35988	50.87693	0.9157	40.15687
CALCIUM, DISSOLVED	40	87.60	16.63	28.00	130.00	40	0.04774	13.19646	0.7203	11.68865
MAGNESIUM, DISSOLVED	40	95.32	15.98	16.00	120.00	40	0.05864	3.93257	0.9207	6.31768
SODIUM, DISSOLVED	40	152.85	26.96	24.00	220.00	40	0.10096	-4.49746	0.9397	9.34111
POTASSIUM, DISSOLVED	40	3.28	2.29	0.90	12.00					
CHLORIDE, DISSOLVED	40	10.29	3.81	5.70	29.00	40	0.00810	-2.34178	0.5341	3.26065
SULFATE, DISSOLVED	40	476.00	82.18	70.00	590.00	40	0.29305	19.28363	0.8949	37.14666
SILICA, DISSOLVED	38	13.97	2.99	5.40	18.00	38	0.00571	5.06308	0.4915	2.64225
BORON, DISSOLVED, UG/L	38	102.11	27.62	40.00	160.00					
DISSOLVED SOLIDS, SUM OF CONST	38	1090.74	180.24	239.00	1450.00	38	0.66693	50.67935	0.9526	55.59059

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 286

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1760	1700	1660	1610	1570	1510	1450	1400	1240

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				39	0.00	3.00
CADMIUM(CD), UG/L				30	0.00	4.00
CHROMIUM (CR), UG/L				10	0.00	20.00
COPPER (CU), UG/L				29	0.00	8.00
IRON (FE), UG/L				40	0.00	280.00
LEAD (PB), UG/L				28	0.00	11.00
MANGANESE (MN), UG/L				37	0.00	60.00
MERCURY (HG), UG/L				33	0.00	0.90
SELENIUM (SE), UG/L				33	0.00	5.00
ZINC (ZN), UG/L				31	0.00	260.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09306058 NAME: WILLOW CREEK NEAR RIO BLANCO, CO.

LAT 39 50'14" LONG 108 14'37" DRAINAGE AREA: 48.401 SQ MI (125.359 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	85	11.27	6.33	0.00	25.00					
STREAMFLOW, MEAN DAILY, (CFS)	54	1.49	1.61	0.57	12.60					
STREAMFLOW (CUBIC FT/SEC)	62	1.71	1.14	0.11	5.20					
SPECIFIC CONDUCTANCE (MICROMHOS)	77	1300.97	100.96	1050.00	1590.00					
OXYGEN, DISSOLVED	75	10.57	7.67	7.00	75.00					
PH (STANDARD UNITS)	75			7.80	8.90					
BICARBONATE ION	70	517.56	68.93	315.00	730.00					
NITRITE + NITRATE, DISSOLVED AS N	57	0.37	0.31	0.00	2.00					
ORTHOPHOSPHATE, DISSOLVED AS P	57	0.02	0.02	0.00	0.17					
HARDNESS, TOTAL	58	542.76	26.81	460.00	610.00	58	0.08214	434.67284	0.3263	25.56413
CALCIUM, DISSOLVED	58	91.69	7.29	64.00	110.00					
MAGNESIUM, DISSOLVED	58	75.98	4.34	67.00	87.00	58	0.01933	50.54627	0.4740	3.85784
SODIUM, DISSOLVED	58	125.00	12.74	110.00	180.00	58	0.07266	29.37869	0.6075	10.20910
POTASSIUM, DISSOLVED	58	2.11	0.91	1.10	6.70	58	0.00368	-2.72629	0.4304	0.82876
CHLORIDE, DISSOLVED	58	11.49	2.85	8.20	29.00					
SULFATE, DISSOLVED	58	350.52	35.95	290.00	500.00	58	0.19803	89.91864	0.5866	29.37815
SILICA, DISSOLVED	58	15.79	1.35	12.00	18.00					
BORON, DISSOLVED, UG/L	54	175.00	377.26	60.00	2800.00					
DISSOLVED SOLIDS, ROE 180 DEG C	1	845.00	.	845.00	845.00	1	0.00000	845.00000	0.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	56	919.96	62.54	792.00	1150.00	56	0.39509	398.47451	0.6667	47.04077

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 512

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1470	1440	1390	1310	1260	1190	1090	1020	933

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				54	0.00	13.00
CADMIUM(CD), UG/L				36	0.00	6.00
CHROMIUM (CR), UG/L				16	0.00	40.00
COPPER (CU), UG/L				34	0.00	17.00
IRON (FE), UG/L				58	10.00	190.00
LEAD (PB), UG/L				34	0.00	15.00
MANGANESE (MN), UG/L				55	0.00	90.00
MERCURY (HG), UG/L				41	0.00	1.00
SELENIUM (SE), UG/L				40	0.00	2.00
ZINC (ZN), UG/L				39	0.00	40.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09306061 NAME: PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO.

LAT 39 51'02" LONG 108 15'30" DRAINAGE AREA: 309.001 SQ MI (800.313 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	105	10.62	6.13	-0.50	23.00					
STREAMFLOW, MEAN DAILY, (CFS)	17	12.68	10.15	4.20	33.00					
STREAMFLOW (CUBIC FT/SEC)	91	15.99	13.87	1.30	96.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	99	1322.27	171.77	750.00	1660.00					
OXYGEN, DISSOLVED	92	21.43	113.71	1.05	1100.00					
PH (STANDARD UNITS)	96			7.50	9.50					
BICARBONATE ION	95	583.58	89.54	309.00	890.00	95	0.26437	233.78666	0.5155	77.13735
NITRITE + NITRATE, DISSOLVED AS N	79	0.43	0.27	0.01	1.30					
ORTHOPHOSPHATE, DISSOLVED AS P	79	0.03	0.02	0.00	0.08					
HARDNESS, TOTAL	79	475.95	51.60	340.00	580.00	79	0.21181	192.81128	0.6728	38.42329
CALCIUM, DISSOLVED	79	77.71	10.29	16.00	91.00					
MAGNESIUM, DISSOLVED	79	68.38	10.09	44.00	89.00	79	0.04951	2.19218	0.8041	6.03943
SODIUM, DISSOLVED	79	150.86	23.60	91.00	200.00	79	0.12401	-14.91111	0.8615	12.06095
POTASSIUM, DISSOLVED	79	3.38	0.84	1.20	6.40	79	0.00178	1.00111	0.3486	0.78797
CHLORIDE, DISSOLVED	79	14.13	2.30	9.60	27.00	79	0.00327	9.75860	0.2338	2.24616
SULFATE, DISSOLVED	79	294.56	47.09	170.00	390.00	79	0.21922	1.50376	0.7631	30.62851
SILICA, DISSOLVED	79	16.41	1.90	11.00	20.00	79	0.00464	10.19700	0.4010	1.75009
BORON, DISSOLVED, UG/L	76	201.32	80.55	120.00	770.00					
DISSOLVED SOLIDS, SUM OF CONST	78	909.05	106.99	584.00	1090.00	78	0.56226	156.67414	0.8646	54.10237

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1141

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1650	1540	1490	1410	1310	1230	1130	1070	928

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				76	0.00	6.00
CADMIUM(CD), UG/L				51	0.00	6.00
CHROMIUM (CR), UG/L				27	0.00	40.00
COPPER (CU), UG/L				50	0.00	20.00
IRON (FE), UG/L				75	0.00	130.00
LEAD (PB), UG/L				48	0.00	23.00
MANGANESE (MN), UG/L				77	0.00	260.00
MERCURY (HG), UG/L				53	0.00	0.50
SELENIUM (SE), UG/L				55	0.00	2.00
ZINC (ZN), UG/L				53	0.00	50.00

STATISTICAL SUMMARY OF WATER QUALITY DATA
STATION NUMBER: 09306175 NAME: BLACK SULPHUR CREEK NEAR RIO BLANCO, CO.

LAT 39 52'17" LONG 108 17'13" DRAINAGE AREA: 103.001 SQ MI (266.773 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	67	9.57	5.53	0.50	23.00					
STREAMFLOW, MEAN DAILY, (CFS)	3	8.77	2.15	6.70	11.00					
STREAMFLOW (CUBIC FT/SEC)	63	5.66	3.94	0.27	21.40					
SPECIFIC CONDUCTANCE (MICROMHOS)	63	1610.63	140.04	1300.00	1860.00					
OXYGEN, DISSOLVED	58	9.49	1.31	6.00	12.00					
PH (STANDARD UNITS)	61			7.50	8.80					
BICARBONATE ION	59	584.80	96.55	150.00	850.00					
NITRITE + NITRATE, DISSOLVED AS N	43	0.32	0.24	0.01	1.20					
ORTHOPHOSPHATE, DISSOLVED AS P	43	0.03	0.04	0.00	0.24					
HARDNESS, TOTAL	43	677.91	53.39	580.00	800.00	42	0.32079	162.32682	0.7659	35.05566
CALCIUM, DISSOLVED	43	103.14	6.29	90.00	120.00	42	0.03209	51.56439	0.6499	4.88569
MAGNESIUM, DISSOLVED	43	100.86	9.96	84.00	120.00	42	0.05701	9.20042	0.7289	6.97207
SODIUM, DISSOLVED	42	154.55	20.19	91.00	190.00	41	0.09660	-0.66791	0.6037	16.48843
POTASSIUM, DISSOLVED	43	2.47	0.66	1.70	5.00	42	0.00221	-1.08028	0.4260	0.60976
CHLORIDE, DISSOLVED	43	9.44	1.17	7.70	13.00	42	0.00419	2.69098	0.4535	1.07225
SULFATE, DISSOLVED	43	497.67	58.71	370.00	610.00	42	0.30589	6.30353	0.6653	44.68928
SILICA, DISSOLVED	41	18.07	1.17	15.00	20.00					
BORON, DISSOLVED, UG/L	41	145.61	15.50	120.00	180.00					
DISSOLVED SOLIDS, ROE 180 DEG C	1	1200.00	.	1200.00	1200.00	1	0.00000	1200	0.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	39	1174.18	107.79	945.00	1380.00	38	0.61479	188.29875	0.7523	72.20620

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1091

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	2620	2170	2000	1830	1580	1470	1370	1330	1180

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				41	0.00	4.00
CADMIUM(CD), UG/L				41	0.00	4.00
COPPER (CU), UG/L				41	0.00	7.00
IRON (FE), UG/L				43	0.00	240.00
LEAD (PB), UG/L				41	0.00	9.00
MANGANESE (MN), UG/L				43	30.00	170.00
MERCURY (HG), UG/L				41	0.00	1.60
SELENIUM (SE), UG/L				41	0.00	2.00
ZINC (ZN), UG/L				41	0.00	40.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09306200 NAME: PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO.

LAT 39 55'16" LONG 108 17'49" DRAINAGE AREA: 506.001 SQ MI (1310.54 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	147	8.60	6.45	0.00	24.00					
STREAMFLOW, MEAN DAILY, (CFS)	82	21.32	21.89	3.40	125.00					
STREAMFLOW (CUBIC FT/SEC)	64	19.77	12.82	2.60	60.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	138	1602.30	351.49	138.00	2800.00					
OXYGEN, DISSOLVED	92	9.91	1.34	6.90	12.40					
PH (STANDARD UNITS)	136			7.00	8.90					
BICARBONATE ION	98	652.58	124.67	258.00	1100.00	96	0.36348	72.43209	0.8395	68.24947
NITRITE + NITRATE, DISSOLVED AS N	87	0.39	0.58	0.00	4.60					
ORTHOPHOSPHATE, DISSOLVED AS P	88	0.04	0.04	0.00	0.31					
HARDNESS, TOTAL	89	564.34	75.95	190.00	700.00	87	0.22038	210.57543	0.7888	47.29562
CALCIUM, DISSOLVED	89	82.85	9.99	41.00	100.00					
MAGNESIUM, DISSOLVED	89	86.65	15.43	21.00	110.00	87	0.05052	5.55904	0.8905	7.11033
SODIUM, DISSOLVED	88	191.90	51.90	66.00	380.00	86	0.17175	-82.88690	0.9048	22.27194
POTASSIUM, DISSOLVED	88	3.44	0.90	2.30	8.40	86	0.00137	1.18827	0.5248	0.61372
CHLORIDE, DISSOLVED	89	16.11	4.05	9.10	32.00	87	0.00941	1.02332	0.6332	3.16911
SULFATE, DISSOLVED	88	401.82	81.19	110.00	570.00	86	0.26451	-21.15826	0.8930	36.74144
SILICA, DISSOLVED	85	17.39	1.73	11.00	21.00	83	0.00303	12.54022	0.4944	1.49019
BORON, DISSOLVED, UG/L	31	220.32	54.31	150.00	320.00					
DISSOLVED SOLIDS, ROE 180 DEG C	1	1360.00	.	1360.00	1360.00	1	0.00000	1360	0.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	84	1115.55	198.80	392.00	1630.00	82	0.67965	30.33253	0.9440	66.10996

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				23	1.00	6.00
CADMIUM(CD), UG/L				21	0.00	5.00
COPPER (CU), UG/L				22	0.00	13.00
IRON (FE), UG/L				87	10.00	160.00
LEAD (PB), UG/L				22	0.00	26.00
MANGANESE (MN), UG/L				88	0.00	250.00
MERCURY (HG), UG/L				23	0.00	0.30
SELENIUM (SE), UG/L				23	0.00	3.00
ZINC (ZN), UG/L				22	0.00	30.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09306210 NAME: PICEANCE CREEK NEAR WHITE RIVER, CO.

LAT 39 56'20" LONG 108 17'20" DRAINAGE AREA: 515.001 SQ MI (1333.85 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	88	7.27	6.23	0.00	25.00					
STREAMFLOW, MEAN DAILY, (CFS)	79	22.05	23.09	3.40	125.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	87	1698.78	425.12	620.00	2800.00					
OXYGEN, DISSOLVED	44	9.86	1.49	6.10	12.30					
PH (STANDARD UNITS)	86			7.20	8.90					
BICARBONATE ION	60	668.25	148.82	280.00	1080.00	56	0.35275	74.42354	0.9378	52.18542
NITRITE + NITRATE, DISSOLVED AS N	58	0.35	0.29	0.00	1.60					
ORTHOPHOSPHATE, DISSOLVED AS P	58	0.09	0.40	0.00	3.10					
HARDNESS, TOTAL	60	544.47	101.42	148.00	690.00	56	0.21346	185.87479	0.8393	55.24844
CALCIUM, DISSOLVED	60	78.08	12.48	28.00	94.00	56	0.00917	62.72930	0.2956	11.84851
MAGNESIUM, DISSOLVED	60	84.87	19.79	19.00	120.00	56	0.04664	6.51287	0.9338	7.14136
SODIUM, DISSOLVED	58	211.47	70.59	70.00	440.00	54	0.17970	-94.56316	0.9576	20.61121
POTASSIUM, DISSOLVED	58	3.58	1.01	2.00	7.80	54	0.00121	1.46713	0.5442	0.71337
CHLORIDE, DISSOLVED	60	18.23	5.90	11.00	45.00	56	0.00963	1.91778	0.6447	4.56289
SULFATE, DISSOLVED	60	413.43	110.56	115.00	710.00	56	0.27110	-41.88592	0.9679	28.10779
SILICA, DISSOLVED	58	17.57	2.83	8.30	28.00	54	0.00223	13.97463	0.3236	2.48171
BORON, DISSOLVED, UG/L	7	201.43	101.72	50.00	330.00					
DISSOLVED SOLIDS, ROE 180 DEG C	2	884.50	630.03	439.00	1330.00	2	0.75765	-86.81093	1.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	57	1171.28	266.01	420.00	1930.00	53	0.68555	6.42586	0.9830	49.21606

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				1	3.00	3.00
CADMIUM(CD), UG/L				1	0.00	0.00
COPPER (CU), UG/L				1	6.00	6.00
IRON (FE), UG/L				58	10.00	480.00
LEAD (PB), UG/L				1	1.00	1.00
MANGANESE (MN), UG/L				58	0.00	210.00
MERCURY (HG), UG/L				1	0.00	0.00
SELENIUM (SE), UG/L				1	3.00	3.00
ZINC (ZN), UG/L				1	30.00	30.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09306222 NAME: PICEANCE CREEK AT WHITE RIVER, CO.

LAT 40 04'39" LONG 108 14'08" DRAINAGE AREA: 652.001 SQ MI (1688.68 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	142	8.83	7.50	0.00	30.00					
STREAMFLOW, MEAN DAILY, (CFS)	84	31.33	51.63	1.30	416.00					
STREAMFLOW (CUBIC FT/SEC)	72	52.94	221.83	0.28	1900.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	142	2803.89	1229.20	560.00	7240.00					
OXYGEN, DISSOLVED	85	9.66	1.67	4.90	12.70					
PH (STANDARD UNITS)	136			7.10	9.00					
BICARBONATE ION	96	1193.61	624.27	292.00	4690.00	95	0.50016	-129.087	0.9026	271.12296
NITRITE + NITRATE, DISSOLVED AS N	88	0.38	0.28	0.00	1.60					
ORTHOPHOSPHATE, DISSOLVED AS P	88	0.06	0.06	0.00	0.49					
HARDNESS, TOTAL	91	501.54	68.93	160.00	640.00					
CALCIUM, DISSOLVED	91	58.14	17.66	16.00	84.00	90	-0.01052	86.28524	-0.6790	13.02925
MAGNESIUM, DISSOLVED	91	86.33	14.59	18.00	110.00	90	0.00649	68.90223	0.5036	12.74288
SODIUM, DISSOLVED	90	514.18	329.79	76.00	2000.00	89	0.28488	-248.602	0.9846	58.14479
POTASSIUM, DISSOLVED	90	4.56	1.37	2.60	8.80	89	0.00067	2.79595	0.5564	1.14187
CHLORIDE, DISSOLVED	90	81.14	114.42	11.00	1000.00	89	0.06877	-102.152	0.6736	85.46346
SULFATE, DISSOLVED	88	438.53	108.32	50.00	740.00	87	0.04681	315.73208	0.4838	95.53400
SILICA, DISSOLVED	90	15.51	3.16	6.10	23.00	89	-0.00169	20.00163	-0.6148	2.49067
BORON, DISSOLVED, UG/L	32	389.69	182.75	160.00	820.00					
DISSOLVED SOLIDS, ROE 180 DEG C	1	2370.00	.	2370.00	2370.00	1	0.00000	2370	0.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	88	1802.58	773.52	378.00	5280.00	87	0.68437	-1.38958	0.9895	112.83906

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 2098

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	8000	5900	4800	3500	2530	1960	1700	1480	1050

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				24	0.00	31.00
CADMIUM(CD), UG/L				21	0.00	8.00
CHROMIUM (CR), UG/L				20	0.00	10.00
COPPER (CU), UG/L				21	0.00	24.00
IRON (FE), UG/L				90	10.00	560.00
LEAD (PB), UG/L				21	0.00	21.00
MANGANESE (MN), UG/L				90	0.00	80.00
MERCURY (HG), UG/L				22	0.00	0.10
SELENIUM (SE), UG/L				24	0.00	7.00
ZINC (ZN), UG/L				21	0.00	50.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09306235 NAME: CORRAL GULCH BELOW WATER GULCH, NR RANGELY, CO.

LAT 39 54'22" LONG 108 31'56" DRAINAGE AREA: 8.611 SQ MI (22.3025 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	58	14.35	7.44	0.50	30.00					
STREAMFLOW, MEAN DAILY, (CFS)	26	0.30	0.18	0.02	0.74					
STREAMFLOW (CUBIC FT/SEC)	34	0.23	0.17	0.02	0.64					
SPECIFIC CONDUCTANCE (MICROMHOS)	50	1064.10	125.43	260.00	1200.00					
OXYGEN, DISSOLVED	43	8.56	1.41	5.60	11.70					
PH (STANDARD UNITS)	50			7.30	8.70					
BICARBONATE ION	48	387.12	47.21	140.00	513.00	47	0.28482	84.71514	0.7724	30.51691
NITRITE + NITRATE, DISSOLVED AS N	49	1.00	0.43	0.01	2.20					
ORTHOPHOSPHATE, DISSOLVED AS P	49	0.01	0.02	0.00	0.09					
HARDNESS, TOTAL	51	448.63	52.15	140.00	510.00	50	0.34507	82.21572	0.8262	29.82120
CALCIUM, DISSOLVED	51	83.67	11.72	32.00	99.00	50	0.05773	22.53345	0.6215	9.22284
MAGNESIUM, DISSOLVED	51	58.06	7.00	15.00	70.00	50	0.04791	7.08280	0.8504	3.75696
SODIUM, DISSOLVED	51	84.47	12.27	22.00	120.00	50	0.07273	6.90326	0.7395	8.39149
POTASSIUM, DISSOLVED	51	1.49	0.46	0.60	2.80					
CHLORIDE, DISSOLVED	51	7.76	1.33	3.80	12.00	50	0.00439	3.06274	0.4142	1.22369
SULFATE, DISSOLVED	51	276.31	35.30	52.00	320.00	50	0.24952	10.52833	0.8792	17.14050
SILICA, DISSOLVED	50	20.72	2.96	5.80	24.00	49	0.01637	3.27123	0.6962	2.16212
BORON, DISSOLVED, UG/L	43	94.88	19.93	30.00	130.00					
DISSOLVED SOLIDS, ROE 180 DEG C	1	724.00	.	724.00	724.00	1	0.00000	724.00000	0.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	47	726.72	84.73	202.00	874.00	46	0.59979	88.74637	0.9124	35.44892

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 450

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1290	1220	1170	1100	1060	993	818	526	261

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				41	1.00	23.00
CADMIUM(CD), UG/L				35	0.00	7.00
CHROMIUM (CR), UG/L				15	0.00	10.00
COPPER (CU), UG/L				38	0.00	14.00
IRON (FE), UG/L				45	0.00	280.00
LEAD (PB), UG/L				33	0.00	22.00
MANGANESE (MN), UG/L				42	0.00	160.00
MERCURY (HG), UG/L				38	0.00	1.20
SELENIUM (SE), UG/L				39	1.00	8.00
ZINC (ZN), UG/L				37	0.00	340.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09306242 NAME: CORRAL GULCH NEAR RANGELY, CO.

LAT 39 55'13" LONG 108 28'20" DRAINAGE AREA: 31.601 SQ MI (81.8465 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	79	11.64	4.22	1.00	22.00					
STREAMFLOW, MEAN DAILY, (CFS)	36	0.93	0.74	0.20	4.00					
STREAMFLOW (CUBIC FT/SEC)	64	1.72	2.63	0.20	13.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	71	1231.15	132.77	797.00	1720.00					
OXYGEN, DISSOLVED	63	8.59	1.88	4.80	13.00					
PH (STANDARD UNITS)	69			7.10	8.50					
BICARBONATE ION	69	503.26	89.67	327.00	901.00	69	0.57128	-199.342	0.8458	48.19136
NITRITE + NITRATE, DISSOLVED AS N	64	0.43	0.35	0.02	2.00					
ORTHOPHOSPHATE, DISSOLVED AS P	63	0.03	0.02	0.00	0.13					
HARDNESS, TOTAL	70	466.86	39.14	360.00	530.00					
CALCIUM, DISSOLVED	70	82.73	9.35	55.00	110.00	70	-0.01850	105.52350	-0.2640	9.07965
MAGNESIUM, DISSOLVED	70	63.14	6.71	45.00	80.00					
SODIUM, DISSOLVED	70	120.71	39.36	51.00	300.00	70	0.24488	-181.055	0.8297	22.13445
POTASSIUM, DISSOLVED	70	1.69	0.48	0.70	3.30	70	0.00154	-0.20191	0.4265	0.43741
CHLORIDE, DISSOLVED	70	10.27	2.34	5.90	19.00	70	0.00942	-1.33373	0.5376	1.98447
SULFATE, DISSOLVED	70	282.71	38.75	160.00	370.00					
SILICA, DISSOLVED	70	21.17	2.43	13.00	29.00					
BORON, DISSOLVED, UG/L	59	159.15	127.86	60.00	670.00					
DISSOLVED SOLIDS, ROE 180 DEG C	1	937.00	.	937.00	937.00	1	0.00000	937.00000	0.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	69	831.75	90.08	522.00	1140.00	69	0.56752	133.76478	0.8365	49.72429

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 990

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	1720	1550	1440	1310	1220	1160	1120	1070	980

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				56	1.00	14.00
CADMIUM(CD), UG/L				47	0.00	3.00
CHROMIUM (CR), UG/L				25	0.00	50.00
COPPER (CU), UG/L				50	0.00	13.00
IRON (FE), UG/L				57	0.00	240.00
LEAD (PB), UG/L				46	0.00	36.00
MANGANESE (MN), UG/L				54	0.00	80.00
MERCURY (HG), UG/L				51	0.00	1.30
SELENIUM (SE), UG/L				52	0.00	8.00
ZINC (ZN), UG/L				48	0.00	100.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09306244 NAME: CORRAL GULCH AT 84 RANCH, CO.

LAT 39 56'02" LONG 108 25'35" DRAINAGE AREA: 37.801 SQ MI (97.9045 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	29	11.88	6.27	1.00	23.00					
STREAMFLOW, MEAN DAILY, (CFS)	6	0.09	0.12	0.01	0.31					
STREAMFLOW (CUBIC FT/SEC)	33	0.57	1.00	0.01	4.80					
SPECIFIC CONDUCTANCE (MICROMHOS)	24	1807.50	112.03	1520.00	2000.00					
DXYGEN, DISSOLVED	19	9.42	2.35	4.40	13.40					
PH (STANDARD UNITS)	24			7.40	8.60					
BICARBONATE ION	23	605.39	40.43	518.00	658.00					
NITRITE + NITRATE, DISSOLVED AS N	21	0.42	0.37	0.00	1.30					
ORTHOPHOSPHATE, DISSOLVED AS P	22	0.02	0.01	0.00	0.05					
HARDNESS, TOTAL	23	712.17	45.42	650.00	800.00	22	0.17103	405.35391	0.4411	40.80618
CALCIUM, DISSOLVED	23	109.70	11.07	84.00	140.00	22	0.05545	9.29697	0.5602	9.61514
MAGNESIUM, DISSOLVED	23	105.91	8.50	90.00	120.00					
SODIUM, DISSOLVED	23	183.48	9.35	170.00	200.00					
POTASSIUM, DISSOLVED	23	2.86	0.54	1.90	4.40					
CHLORIDE, DISSOLVED	23	18.91	1.81	15.00	23.00	22	0.01007	0.67317	0.6234	1.48169
SULFATE, DISSOLVED	23	556.52	35.37	480.00	610.00	22	0.16436	261.07713	0.5424	29.85628
SILICA, DISSOLVED	23	18.13	1.66	15.00	22.00					
BORON, DISSOLVED, UG/L	23	166.52	38.45	40.00	220.00					
DISSOLVED SOLIDS, SUM OF CONST	23	1297.39	60.17	1170.00	1390.00	22	0.28349	788.12038	0.5554	49.77490

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 309

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	2270	1990	1950	1830	1750	1700	1290	1050	747

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				17	2.00	7.00
CADMIUM(CD), UG/L				14	0.00	1.00
CHROMIUM (CR), UG/L				9	0.00	10.00
COPPER (CU), UG/L				13	0.00	7.00
IRON (FE), UG/L				16	10.00	120.00
LEAD (PB), UG/L				12	0.00	8.00
MANGANESE (MN), UG/L				14	0.00	250.00
MERCURY (HG), UG/L				14	0.00	0.10
SELENIUM (SE), UG/L				14	1.00	6.00
ZINC (ZN), UG/L				14	0.00	20.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09306255 NAME: YELLOW CREEK NEAR WHITE RIVER, CO.

LAT 40 10'07" LONG 108 24'02" DRAINAGE AREA: 262.001 SQ MI (678.583 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	57	13.18	8.45	0.00	28.00					
STREAMFLOW, MEAN DAILY, (CFS)	12	2.32	0.51	1.70	3.00					
STREAMFLOW (CUBIC FT/SEC)	45	6.22	30.01	0.27	203.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	59	3732.78	411.14	2410.00	5000.00					
OXYGEN, DISSOLVED	49	9.46	1.89	5.60	12.60					
PH (STANDARD UNITS)	55			7.60	9.10					
BICARBONATE ION	52	1505.10	305.13	596.00	2060.00	52	0.32061	315.36100	0.4477	275.55850
NITRITE + NITRATE, DISSOLVED AS N	52	0.82	0.76	0.00	2.70					
ORTHOPHOSPHATE, DISSOLVED AS P	50	0.07	0.25	0.00	1.80					
HARDNESS, TOTAL	55	536.15	71.27	288.00	670.00					
CALCIUM, DISSOLVED	55	30.82	16.77	7.00	130.00	55	-0.01582	89.77967	-0.4010	15.50498
MAGNESIUM, DISSOLVED	56	111.43	17.48	50.00	151.00					
SODIUM, DISSOLVED	54	786.85	93.04	500.00	1000.00	54	0.15154	221.19332	0.6971	67.34152
POTASSIUM, DISSOLVED	54	4.53	0.89	3.50	7.40					
CHLORIDE, DISSOLVED	56	133.80	24.04	93.00	220.00	56	0.03065	19.51954	0.5371	20.46513
SULFATE, DISSOLVED	55	565.27	64.00	400.00	750.00	55	0.04339	403.17527	0.2880	61.86269
SILICA, DISSOLVED	53	9.79	4.36	1.10	20.00	53	-0.00279	20.22705	-0.2758	4.23487
BORON, DISSOLVED, UG/L	49	680.00	132.74	230.00	960.00					
DISSOLVED SOLIDS, ROE 180 DEG C	2	2640.00	155.56	2530.00	2750.00	2	0.91667	-678.333	1.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	49	2523.27	238.20	1740.00	3070.00	49	0.37810	1117.18	0.6937	173.39062

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 1056

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	4760	4560	4450	4200	3910	3540	3060	2670	2000

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				42	0.00	10.00
CADMIUM(CD), UG/L				36	0.00	2.00
CHROMIUM (CR), UG/L				25	0.00	10.00
COPPER (CU), UG/L				36	0.00	9.00
IRON (FE), UG/L				48	0.00	170.00
LEAD (PB), UG/L				34	0.00	13.00
MANGANESE (MN), UG/L				37	0.00	50.00
MERCURY (HG), UG/L				38	0.00	0.90
SELENIUM (SE), UG/L				39	0.00	5.00
ZINC (ZN), UG/L				37	0.00	140.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09306300 NAME: WHITE RIVER ABOVE RANGELY, CO.

LAT 40 06'26" LONG 108 42'44" DRAINAGE AREA: 2773 SQ MI (7182.07 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	87	11.29	7.30	0.00	24.00					
STREAMFLOW, MEAN DAILY, (CFS)	24	670.29	520.92	305.00	2480.00					
STREAMFLOW (CUBIC FT/SEC)	148	669.07	648.91	105.00	3600.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	57	686.91	213.19	210.00	1250.00					
OXYGEN, DISSOLVED	32	9.45	2.10	6.00	13.40					
PH (STANDARD UNITS)	35			7.40	8.70					
BICARBONATE ION	37	223.54	41.98	130.00	340.00	35	0.20081	71.04709	0.9024	18.50830
HARDNESS, TOTAL	37	278.43	59.31	138.00	430.00	35	0.30135	51.28963	0.9538	18.31989
CALCIUM, DISSOLVED	37	70.27	13.22	39.00	94.00	35	0.06070	24.71805	0.8653	6.78862
MAGNESIUM, DISSOLVED	37	24.70	7.19	9.90	48.00	35	0.03672	-3.09465	0.9549	2.20369
SODIUM, DISSOLVED	35	62.86	24.57	15.00	140.00	33	0.13191	-38.62891	0.9521	7.74421
POTASSIUM, DISSOLVED	35	2.33	1.09	1.20	6.40	33	0.00298	-0.09574	0.6340	0.66404
CHLORIDE, DISSOLVED	37	37.56	15.09	7.80	75.00	35	0.07474	-18.91489	0.9207	6.11421
SULFATE, DISSOLVED	37	166.84	58.38	49.00	310.00	35	0.28399	-48.10977	0.9081	25.27438
SILICA, DISSOLVED	37	13.49	1.95	10.00	19.00					
BORON, DISSOLVED, UG/L	35	68.86	28.26	20.00	140.00					
DISSOLVED SOLIDS, ROE 180 DEG C	2	396.50	262.34	211.00	582.00	2	0.68959	-20.01301	1.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	35	494.34	128.06	219.00	858.00	33	0.69250	-36.13194	0.9565	38.59039

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				23	0.00	6.00
CADMIUM(CD), UG/L				7	0.00	2.00
CHROMIUM (CR), UG/L				7	0.00	20.00
COPPER (CU), UG/L				8	0.00	7.00
IRON (FE), UG/L				32	20.00	220.00
LEAD (PB), UG/L				7	0.00	7.00
MANGANESE (MN), UG/L				24	0.00	60.00
MERCURY (HG), UG/L				8	0.00	1.10
SELENIUM (SE), UG/L				23	0.00	5.00
ZINC (ZN), UG/L				8	0.00	10.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09341200 NAME: WOLF CREEK NEAR PAGOSA SPRINGS, CO.

LAT 37 26'47" LONG 106 53'00" DRAINAGE AREA: 14.001 SQ MI (36.2626 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	69	6.94	4.28	1.00	18.00					
STREAMFLOW, MEAN DAILY, (CFS)	60	50.96	64.33	4.00	337.00					
STREAMFLOW (CUBIC FT/SEC)	9	78.81	80.11	2.52	207.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	67	48.57	11.20	28.00	80.00					
OXYGEN, DISSOLVED	23	9.83	0.82	7.80	11.30					
PH (STANDARD UNITS)	67			6.50	8.70					
BICARBONATE ION	47	22.36	5.68	10.00	35.00	45	0.37254	5.13027	0.8665	2.76659
NITRITE + NITRATE, DISSOLVED AS N	47	0.05	0.04	0.00	0.18					
ORTHOPHOSPHATE, DISSOLVED AS P	47	0.02	0.02	0.00	0.10					
HARDNESS, TOTAL	47	16.38	4.19	11.00	26.00	45	0.28829	2.97788	0.8847	1.95853
CALCIUM, DISSOLVED	47	5.58	1.39	3.70	8.70	45	0.09447	1.18279	0.8713	0.68576
MAGNESIUM, DISSOLVED	47	0.59	0.24	0.10	1.10	45	0.01450	-0.08271	0.7527	0.16342
SODIUM, DISSOLVED	47	2.83	0.96	1.60	5.50	45	0.06372	-0.15739	0.8386	0.53359
POTASSIUM, DISSOLVED	47	1.01	0.31	0.50	2.40					
CHLORIDE, DISSOLVED	47	0.74	0.63	0.00	2.40	45	0.01904	-0.14627	0.3809	0.59576
SULFATE, DISSOLVED	47	4.52	1.56	1.30	8.00	45	0.07534	1.04231	0.6216	1.22391
SILICA, DISSOLVED	47	16.11	2.06	10.00	23.00	45	0.08309	12.20728	0.5106	1.80355
BORON, DISSOLVED, UG/L	9	28.89	35.86	0.00	110.00					
DISSOLVED SOLIDS, ROE 180 DEG C	2	42.50	6.36	38.00	47.00	2	-2.25000	175.24995	-1.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	47	42.83	7.83	30.00	61.00	45	0.53444	17.99138	0.8832	3.65809

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				37	0.00	120.00
MANGANESE (MN), UG/L				38	0.00	30.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09346000 NAME: NAVAJO RIVER AT EDITH, CO.

LAT 37 00'10" LONG 106 54'25" DRAINAGE AREA: 172.001 SQ MI (445.483 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	88	8.91	6.93	0.00	22.00					
STREAMFLOW, MEAN DAILY, (CFS)	35	83.16	119.32	20.00	551.00					
STREAMFLOW (CUBIC FT/SEC)	33	117.06	159.13	12.00	650.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	83	237.41	60.18	107.00	387.00					
OXYGEN, DISSOLVED	24	9.75	1.79	6.60	12.40					
PH (STANDARD UNITS)	47			7.20	9.10					
BICARBONATE ION	28	85.71	15.42	57.00	118.00	28	0.19630	37.87441	0.6834	11.47269
NITRITE + NITRATE, DISSOLVED AS N	22	0.10	0.27	0.00	1.30					
ORTHOPHOSPHATE, DISSOLVED AS P	21	0.04	0.02	0.01	0.08					
HARDNESS, TOTAL	29	98.31	21.56	55.00	160.00	29	0.36050	9.76352	0.8982	9.65269
CALCIUM, DISSOLVED	29	27.97	5.37	17.00	41.00	29	0.09049	5.73830	0.9055	2.31986
MAGNESIUM, DISSOLVED	29	6.98	1.91	3.60	13.00	29	0.02941	-0.24330	0.8267	1.09483
SODIUM, DISSOLVED	29	9.80	2.21	5.60	16.00	29	0.03642	0.85727	0.8857	1.04427
POTASSIUM, DISSOLVED	29	1.96	0.47	1.10	2.90	29	0.00443	0.87320	0.5033	0.41635
CHLORIDE, DISSOLVED	29	1.24	0.59	0.20	2.60	29	0.00549	-0.10460	0.5037	0.51543
SULFATE, DISSOLVED	29	46.90	13.64	20.00	90.00	29	0.20019	-2.27479	0.7885	8.54315
SILICA, DISSOLVED	29	22.83	2.85	16.00	27.00					
BORON, DISSOLVED, UG/L	23	26.52	16.68	0.00	70.00					
DISSOLVED SOLIDS, ROE 180 DEG C	29	165.38	35.40	94.00	249.00	29	0.56031	27.75575	0.8502	18.98049
DISSOLVED SOLIDS, SUM OF CONST	28	161.36	30.04	95.00	241.00	28	0.48221	43.83588	0.8619	15.52584

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				1	3.00	3.00
CADMIUM(CD), UG/L				1	0.00	0.00
COPPER (CU), UG/L				1	11.00	11.00
IRON (FE), UG/L				23	10.00	180.00
MANGANESE (MN), UG/L				1	20.00	20.00
SELENIUM (SE), UG/L				1	3.00	3.00
ZINC (ZN), UG/L				1	20.00	20.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09346400 NAME: SAN JUAN RIVER NR CARRACAS, COLORADO

LAT 37 00'49" LONG 107 18'42" DRAINAGE AREA: 1230 SQ MI (3185.7 SQ KM)

STATISTICAL SUMMARY OF SELECTED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONCENTRATION (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	66	9.32	7.15	0.00	22.00					
STREAMFLOW, MEAN DAILY, (CFS)	45	467.36	402.37	88.00	1510.00					
STREAMFLOW (CUBIC FT/SEC)	26	776.20	752.57	83.20	2540.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	48	270.17	91.90	125.00	460.00					
OXYGEN, DISSOLVED	32	9.25	2.01	5.50	11.80					
PH (STANDARD UNITS)	46			7.10	8.90					
BICARBONATE ION	24	95.54	24.10	53.00	153.00	24	0.23718	30.36772	0.9139	10.00391
NITRITE + NITRATE, DISSOLVED AS N	10	0.08	0.10	0.00	0.28					
ORTHOPHOSPHATE, DISSOLVED AS P	9	0.02	0.01	0.01	0.04					
HARDNESS, TOTAL	24	98.25	31.71	46.00	160.00	24	0.32887	7.87817	0.9633	8.70836
CALCIUM, DISSOLVED	24	28.25	8.06	14.00	44.00	24	0.08387	5.20213	0.9670	2.09780
MAGNESIUM, DISSOLVED	24	7.08	2.81	2.70	13.00	24	0.02755	-0.49657	0.9121	1.17628
SODIUM, DISSOLVED	24	17.21	7.53	6.00	30.00	24	0.07784	-4.18103	0.9598	2.16113
POTASSIUM, DISSOLVED	24	2.27	0.81	0.80	4.50	24	0.00769	0.15439	0.8825	0.38909
CHLORIDE, DISSOLVED	24	2.34	1.40	0.20	5.20	24	0.01279	-1.17834	0.8475	0.76094
SULFATE, DISSOLVED	24	55.54	26.87	17.00	114.00	24	0.28102	-21.68096	0.9713	6.52937
SILICA, DISSOLVED	24	17.21	2.40	10.00	21.00					
BORON, DISSOLVED, UG/L	11	43.64	28.38	10.00	100.00					
DISSOLVED SOLIDS, ROE 180 DEG C	24	183.00	61.88	75.00	298.00	24	0.65079	4.16706	0.9768	13.55570
DISSOLVED SOLIDS, SUM OF CONST	24	178.08	57.53	86.00	287.00	24	0.61552	8.94393	0.9937	6.57438

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.	NO. SAMPLES	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
COPPER (CU), UG/L				1	2.00	2.00
IRON (FE), UG/L				11	0.00	120.00
MANGANESE (MN), UG/L				1	6.00	6.00

STATISTICAL SUMMARY OF WATER QUALITY DATA
STATION NUMBER: 09347200 NAME: MIDDLE FORK PIEDRA RIVER NR PAGOSA SPRINGS, CO.

LAT 37 29'12" LONG 107 09'46" DRAINAGE AREA: 32.201 SQ MI (83.4006 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	70	8.57	3.66	1.00	18.00					
STREAMFLOW, MEAN DAILY, (CFS)	60	69.26	82.73	4.91	396.00					
STREAMFLOW (CUBIC FT/SEC)	9	123.87	121.41	11.80	346.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	68	63.11	15.49	36.00	109.00					
OXYGEN, DISSOLVED	22	9.70	0.93	7.90	11.20					
PH (STANDARD UNITS)	70			6.60	8.80					
BICARBONATE ION	47	29.30	6.44	17.00	40.00	45	0.30245	10.46777	0.7481	4.23250
NITRITE + NITRATE, DISSOLVED AS N	47	0.03	0.03	0.00	0.13					
ORTHOPHOSPHATE, DISSOLVED AS P	47	0.04	0.02	0.00	0.10					
HARDNESS, TOTAL	47	21.09	4.65	11.00	30.00	45	0.22519	7.09361	0.7803	2.84722
CALCIUM, DISSOLVED	47	6.57	1.27	4.00	9.20	45	0.05775	2.98617	0.7282	0.85749
MAGNESIUM, DISSOLVED	47	1.14	0.39	0.30	2.00	45	0.01826	-0.00247	0.7544	0.25070
SODIUM, DISSOLVED	47	3.81	1.03	1.50	5.50	45	0.04675	0.89946	0.7073	0.73707
POTASSIUM, DISSOLVED	47	1.12	0.26	0.60	1.70					
CHLORIDE, DISSOLVED	47	1.00	1.00	0.00	6.50					
SULFATE, DISSOLVED	47	5.77	1.51	3.20	9.20	45	0.03673	3.52220	0.3827	1.39905
SILICA, DISSOLVED	46	19.07	2.58	12.00	26.00	44	0.08931	13.46755	0.5414	2.17548
BORON, DISSOLVED, UG/L	9	24.44	25.06	0.00	80.00					
DISSOLVED SOLIDS, ROE 180 DEG C	2	62.50	3.54	60.00	65.00	2	-1.00000	134.99976	-1.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	46	53.48	8.90	34.00	67.00	44	0.41942	27.26588	0.7521	5.76353

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				37	20.00	140.00
MANGANESE (MN), UG/L				38	0.00	30.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09352900 NAME: VALLECITO CREEK NEAR BAYFIELD, CO.

LAT 37 28'39" LONG 107 32'35" DRAINAGE AREA: 72.101 SQ MI (186.742 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	229	4.41	3.69	0.00	15.00					
STREAMFLOW, MEAN DAILY, (CFS)	214	168.34	235.06	10.00	1360.00					
STREAMFLOW (CUBIC FT/SEC)	50	145.98	225.01	5.20	962.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	214	72.74	16.18	33.00	120.00					
OXYGEN, DISSOLVED	94	9.71	1.03	6.80	12.20					
PH (STANDARD UNITS)	190			6.50	9.00					
BICARBONATE ION	156	32.28	8.27	14.00	52.00	154	0.41947	1.85006	0.8322	4.57940
NITRITE + NITRATE, DISSOLVED AS N	99	0.12	0.06	0.01	0.35					
ORTHOPHOSPHATE, DISSOLVED AS P	99	0.03	0.26	0.00	2.60					
HARDNESS, TOTAL	162	33.60	8.50	12.00	71.00	159	0.41486	3.44632	0.8014	5.04561
CALCIUM, DISSOLVED	134	10.23	2.73	3.60	24.00	131	0.12189	1.33070	0.7385	1.81628
MAGNESIUM, DISSOLVED	134	2.06	0.64	0.50	4.00	131	0.02908	-0.06125	0.7389	0.43263
SODIUM, DISSOLVED	143	1.26	0.94	0.00	6.70	140	0.02720	-0.72315	0.4734	0.83449
POTASSIUM, DISSOLVED	134	0.70	0.40	0.20	3.90	131	0.00445	0.37737	0.1776	0.40222
CHLORIDE, DISSOLVED	142	0.95	1.01	0.00	10.00					
SULFATE, DISSOLVED	142	8.69	2.70	3.10	18.00	140	0.08669	2.36088	0.5237	2.32089
SILICA, DISSOLVED	131	3.68	0.63	2.30	5.00	129	0.02484	1.85999	0.6303	0.49478
BORON, DISSOLVED, UG/L	35	12.86	13.84	0.00	60.00					
DISSOLVED SOLIDS, ROE 180 DEG C	43	43.16	11.65	17.00	75.00	43	0.53795	4.63044	0.6519	8.93911
DISSOLVED SOLIDS, SUM OF CONST	115	44.08	9.97	20.00	74.00	114	0.49890	7.75147	0.8434	5.38516

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				4	0.00	3.00
CADMIUM(CD), UG/L				4	0.00	1.00
CHROMIUM (CR), UG/L				1	0.00	0.00
COPPER (CU), UG/L				5	1.00	4.00
IRON (FE), UG/L				101	0.00	340.00
LEAD (PB), UG/L				5	1.00	7.00
MANGANESE (MN), UG/L				100	0.00	340.00
MERCURY (HG), UG/L				1	0.00	0.00
SELENIUM (SE), UG/L				1	8.00	8.00
ZINC (ZN), UG/L				12	0.00	40.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09354500 NAME: LOS PINOS RIVER AT LA BOCA, COLO.

LAT 37 00'34" LONG 107 35'56" DRAINAGE AREA: 510.001 SQ MI (1320.9 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	67	11.03	7.56	0.00	24.50					
STREAMFLOW, MEAN DAILY, (CFS)	44	187.07	124.55	54.00	542.00					
STREAMFLOW (CUBIC FT/SEC)	26	298.66	371.23	50.90	1310.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	49	230.31	49.02	140.00	331.00					
OXYGEN, DISSOLVED	31	9.33	1.76	6.60	12.40					
PH (STANDARD UNITS)	45			7.60	8.90					
BICARBONATE ION	25	120.24	24.91	76.00	172.00	25	0.46869	12.23525	0.9551	7.53859
NITRITE + NITRATE, DISSOLVED AS N	11	0.02	0.03	0.00	0.10					
ORTHOPHOSPHATE, DISSOLVED AS P	9	0.02	0.03	0.00	0.10					
HARDNESS, TOTAL	25	91.52	17.56	58.00	130.00	25	0.33576	14.14695	0.9708	4.29883
CALCIUM, DISSOLVED	25	29.04	5.41	20.00	42.00	25	0.10165	5.61542	0.9535	1.66578
MAGNESIUM, DISSOLVED	25	4.81	1.02	2.90	7.00	25	0.01939	0.33954	0.9688	0.25713
SODIUM, DISSOLVED	25	13.34	4.96	5.30	24.00	25	0.09211	-7.88914	0.9431	1.68426
POTASSIUM, DISSOLVED	25	1.76	0.63	0.50	3.00	25	0.00600	0.37730	0.4806	0.56772
CHLORIDE, DISSOLVED	25	3.18	1.69	0.40	6.80	25	0.02040	-1.51791	0.6120	1.36735
SULFATE, DISSOLVED	25	18.96	6.45	11.00	34.00	25	0.11512	-7.56747	0.9058	2.79191
SILICA, DISSOLVED	25	6.01	2.10	2.40	12.00					
BORON, DISSOLVED, UG/L	12	24.17	20.65	0.00	80.00					
DISSOLVED SOLIDS, ROE 180 DEG C	24	140.21	33.09	80.00	210.00	24	0.63637	-4.35439	0.9442	11.14440
DISSOLVED SOLIDS, SUM OF CONST	25	137.72	29.68	83.00	201.00	25	0.57592	5.00480	0.9851	5.22109

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				1	2.00	2.00
COPPER (CU), UG/L				1	1.00	1.00
IRON (FE), UG/L				12	0.00	90.00
MANGANESE (MN), UG/L				2	0.00	12.00
SELENIUM (SE), UG/L				1	3.00	3.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09357500 NAME: ANIMAS RIVER AT HOWARDSVILLE, CO.

LAT 37 49'59" LONG 107 35'56" DRAINAGE AREA: 55.901 SQ MI (144.784 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	73	7.63	3.48	1.00	16.00					
STREAMFLOW, MEAN DAILY, (CFS)	65	179.44	197.47	15.00	749.00					
STREAMFLOW (CUBIC FT/SEC)	9	223.88	225.76	13.00	651.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	74	206.30	77.85	90.00	358.00					
OXYGEN, DISSOLVED	22	9.13	1.22	6.50	11.00					
PH (STANDARD UNITS)	72			6.10	8.30					
BICARBONATE ION	47	31.47	9.07	2.00	52.00	47	0.06226	17.90307	0.5670	7.55337
NITRITE + NITRATE, DISSOLVED AS N	45	0.18	0.08	0.05	0.39					
ORTHOPHOSPHATE, DISSOLVED AS P	45	0.01	0.02	0.00	0.12					
HARDNESS, TOTAL	47	95.06	38.15	39.00	170.00	47	0.45898	-4.94517	0.9937	4.32325
CALCIUM, DISSOLVED	47	34.83	14.21	14.00	60.00	47	0.17123	-2.47990	0.9951	1.42563
MAGNESIUM, DISSOLVED	47	2.06	0.70	0.80	3.90	47	0.00802	0.31526	0.9455	0.23087
SODIUM, DISSOLVED	47	1.93	0.80	0.80	4.00	47	0.00791	0.21147	0.8178	0.46457
POTASSIUM, DISSOLVED	47	0.67	0.26	0.10	1.30	47	0.00138	0.36579	0.4310	0.24083
CHLORIDE, DISSOLVED	47	0.97	1.99	0.00	14.00					
SULFATE, DISSOLVED	47	72.94	34.08	26.00	150.00	47	0.40689	-15.72176	0.9863	5.68979
SILICA, DISSOLVED	47	6.15	1.48	3.00	10.00	47	0.01558	2.75754	0.8693	0.73998
BORON, DISSOLVED, UG/L	9	12.22	15.63	0.00	40.00					
DISSOLVED SOLIDS, ROE 180 DEG C	2	182.00	0.00	182.00	182.00	2	0.00000	181.99997	0.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	47	136.74	53.06	59.00	226.00	47	0.63995	-2.69670	0.9963	4.61662

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				37	10.00	170.00
MANGANESE (MN), UG/L				38	0.00	850.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09358900 NAME: MINERAL CREEK ABOVE SILVERTON, CO.

LAT 37 51'04" LONG 107 43'31" DRAINAGE AREA: 11.001 SQ MI (28.4926 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	71	6.17	3.78	0.00	16.00					
STREAMFLOW, MEAN DAILY, (CFS)	62	35.78	34.84	3.40	120.00					
STREAMFLOW (CUBIC FT/SEC)	9	38.66	35.21	2.16	84.80					
SPECIFIC CONDUCTANCE (MICROMHOS)	70	213.96	113.80	60.00	529.00					
OXYGEN, DISSOLVED	22	9.24	1.04	6.60	10.60					
PH (STANDARD UNITS)	68			5.10	8.80					
BICARBONATE ION	47	8.43	7.29	1.00	39.00					
NITRITE + NITRATE, DISSOLVED AS N	47	0.12	0.08	0.00	0.42					
ORTHOPHOSPHATE, DISSOLVED AS P	47	0.00	0.01	0.00	0.03					
HARDNESS, TOTAL	47	94.60	56.94	30.00	250.00	47	0.46364	-9.24936	0.9878	8.98078
CALCIUM, DISSOLVED	47	34.28	21.21	11.00	93.00	47	0.17240	-4.33778	0.9860	3.57467
MAGNESIUM, DISSOLVED	47	2.17	1.06	0.60	5.40	47	0.00831	0.31358	0.9532	0.32321
SODIUM, DISSOLVED	47	2.73	1.59	0.80	6.00	47	0.01130	0.19558	0.8647	0.80552
POTASSIUM, DISSOLVED	47	0.60	0.27	0.00	1.20	47	0.00100	0.37660	0.4545	0.23975
CHLORIDE, DISSOLVED	46	0.73	0.54	0.00	2.70	46	0.00143	0.41071	0.3233	0.51912
SULFATE, DISSOLVED	47	93.49	58.54	25.00	250.00	47	0.47664	-13.26767	0.9877	9.25994
SILICA, DISSOLVED	47	7.72	2.72	2.50	13.00	47	0.02043	3.14620	0.9113	1.13227
BORON, DISSOLVED, UG/L	9	14.44	18.78	0.00	60.00					
DISSOLVED SOLIDS, ROE 180 DEG C	2	203.00	15.56	192.00	214.00	2	0.78571	-30.35714	1.0000	0.00000
DISSOLVED SOLIDS, SUM OF CONST	46	147.85	85.22	48.00	370.00	46	0.68921	-7.13480	0.9906	11.75990

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				38	10.00	580.00
MANGANESE (MN), UG/L				38	10.00	690.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09363500 NAME: ANIMAS RIVER NEAR CEDAR HILL, N. MEX.

LAT 37 02'17" LONG 107 52'25" DRAINAGE AREA: 1090 SQ MI (2823.1 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	97	10.04	6.75	0.00	24.50					
STREAMFLOW, MEAN DAILY, (CFS)	70	793.03	686.23	246.00	3190.00					
STREAMFLOW (CUBIC FT/SEC)	32	1313.44	1222.93	235.00	4040.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	76	443.09	125.41	165.00	710.00					
OXYGEN, DISSOLVED	54	9.78	1.70	5.80	13.80					
PH (STANDARD UNITS)	73			7.40	8.90					
BICARBONATE ION	28	140.75	32.42	79.00	203.00	28	0.24824	28.75892	0.9234	12.67834
NITRITE + NITRATE, DISSOLVED AS N	13	0.14	0.13	0.00	0.48					
ORTHOPHOSPHATE, DISSOLVED AS P	11	0.02	0.02	0.00	0.05					
HARDNESS, TOTAL	28	193.14	49.93	100.00	304.00	28	0.40643	9.78485	0.9818	9.65553
CALCIUM, DISSOLVED	28	60.93	14.59	34.00	88.00	28	0.11867	7.39128	0.9813	2.85871
MAGNESIUM, DISSOLVED	28	9.80	3.48	4.80	22.00	28	0.02648	-2.15168	0.9172	1.41436
SODIUM, DISSOLVED	28	17.29	8.04	5.00	35.00	28	0.06364	-11.42001	0.9550	2.42858
POTASSIUM, DISSOLVED	28	2.56	0.94	0.90	4.50	28	0.00681	-0.51344	0.8731	0.46777
CHLORIDE, DISSOLVED	28	13.38	7.13	3.10	29.00	28	0.05084	-9.55265	0.8600	3.70746
SULFATE, DISSOLVED	28	94.79	32.26	44.00	195.00	28	0.25431	-19.94453	0.9507	10.19842
SILICA, DISSOLVED	28	7.97	2.62	4.40	18.00					
BORON, DISSOLVED, UG/L	13	58.46	30.23	20.00	120.00					
DISSOLVED SOLIDS, ROE 180 DEG C	28	287.82	79.26	154.00	479.00	28	0.64281	-2.17780	0.9782	16.77403
DISSOLVED SOLIDS, SUM OF CONST	28	278.07	78.86	148.00	462.00	28	0.65103	-15.63545	0.9957	7.45452

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
COPPER (CU), UG/L				1	2.00	2.00
IRON (FE), UG/L				14	0.00	290.00
MANGANESE (MN), UG/L				1	20.00	20.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09366500 NAME: LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

LAT 36 59'59" LONG 108 11'17" DRAINAGE AREA: 331.001 SQ MI (857.293 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	63	9.34	7.81	0.00	24.00					
STREAMFLOW, MEAN DAILY, (CFS)	41	50.18	93.72	0.05	385.00					
STREAMFLOW (CUBIC FT/SEC)	24	83.96	120.00	0.05	385.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	65	1004.75	322.56	354.00	1700.00					
OXYGEN, DISSOLVED	23	9.33	1.89	6.00	12.30					
PH (STANDARD UNITS)	36			7.10	8.80					
BICARBONATE ION	23	213.83	52.43	140.00	294.00	23	0.12966	78.87503	0.8808	25.41017
NITRITE + NITRATE, DISSOLVED AS N	9	1.22	0.18	0.07	0.56					
ORTHOPHOSPHATE, DISSOLVED AS P	9	0.01	0.01	0.00	0.02					
HARDNESS, TOTAL	22	520.18	196.27	238.00	910.00	22	0.52628	-28.08533	0.9774	42.55103
CALCIUM, DISSOLVED	23	110.26	39.20	54.00	200.00	23	0.10491	1.07178	0.9531	12.14014
MAGNESIUM, DISSOLVED	23	59.26	23.63	25.00	99.00	23	0.06394	-7.28688	0.9636	6.46314
SODIUM, DISSOLVED	23	42.43	19.35	15.00	75.00	23	0.05167	-11.34162	0.9509	6.12828
POTASSIUM, DISSOLVED	22	2.45	0.87	1.40	4.80					
CHLORIDE, DISSOLVED	23	19.68	10.87	5.80	43.00	23	0.02808	-9.55200	0.9205	4.34516
SULFATE, DISSOLVED	23	392.00	161.60	145.00	730.00	23	0.44672	-72.95456	0.9845	29.03289
SILICA, DISSOLVED	19	10.72	2.20	7.70	14.00	19	0.00462	5.91877	0.7545	1.48465
BORON, DISSOLVED, UG/L	10	55.00	10.80	40.00	70.00					
DISSOLVED SOLIDS, ROE 180 DEG C	14	806.58	337.84	345.00	1370.00	14	0.83009	-66.85082	0.9901	49.34636
DISSOLVED SOLIDS, SUM OF CONST	23	742.04	275.61	317.00	1290.00	23	0.76496	-54.14675	0.9885	42.67877

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				4	1.00	1.00
CADMIUM(CD), UG/L				3	0.00	2.00
CHROMIUM (CR), UG/L				4	0.00	10.00
COPPER (CU), UG/L				4	1.00	10.00
IRON (FE), UG/L				9	10.00	80.00
LEAD (PB), UG/L				4	0.00	4.00
MANGANESE (MN), UG/L				4	0.00	90.00
MERCURY (HG), UG/L				4	0.00	0.00
SELENIUM (SE), UG/L				4	0.00	7.00
ZINC (ZN), UG/L				3	10.00	20.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09370800 NAME: MANCOS RIVER NEAR CORTEZ, CO.

LAT 37 06'28" LONG 108 27'48" DRAINAGE AREA: 302.001 SQ MI (782.183 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, R	CONSTANT, B	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	24	8.60	7.08	0.00	26.00					
STREAMFLOW (CUBIC FT/SEC)	23	29.47	62.17	0.73	242.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	24	2277.50	841.58	410.00	3500.00					
OXYGEN, DISSOLVED	22	9.66	1.47	6.40	11.80					
PH (STANDARD UNITS)	23			6.20	8.70					
BICARBONATE ION	22	220.36	71.80	92.00	367.00	22	0.04637	111.62190	0.5003	63.70857
NITRITE + NITRATE, DISSOLVED AS N	23	0.61	0.82	0.01	4.00					
ORTHOPHOSPHATE, DISSOLVED AS P	23	0.01	0.01	0.00	0.03					
HARDNESS, TOTAL	23	1170.43	474.51	180.00	1900.00	23	0.54704	-66.58807	0.9876	76.23556
CALCIUM, DISSOLVED	23	234.52	85.41	44.00	380.00	23	0.09740	14.27135	0.9769	18.67045
MAGNESIUM, DISSOLVED	23	142.87	66.84	17.00	270.00	23	0.07350	-23.32536	0.9419	22.98284
SODIUM, DISSOLVED	23	161.87	81.96	17.00	310.00	23	0.09143	-44.88726	0.9557	24.69173
POTASSIUM, DISSOLVED	23	5.01	2.56	1.50	15.00	23	0.00171	1.14782	0.5729	2.14427
CHLORIDE, DISSOLVED	22	19.13	7.18	3.20	33.00	22	0.00684	3.97817	0.8079	4.33538
SULFATE, DISSOLVED	22	1304.09	517.07	140.00	2200.00	22	0.66365	-252.465	0.9927	63.98874
SILICA, DISSOLVED	23	7.98	2.09	3.50	11.00					
DISSOLVED SOLIDS, SUM OF CONST	20	2053.10	649.59	622.00	3220.00	20	0.99610	-334.054	0.9940	72.79718

DURATION TABLE OF DAILY SPECIFIC CONDUCTANCE SAMPLE SIZE = 685

DAILY SPECIFIC CONDUCTANCE IN MICROMHOS AT 25 DEG C, THAT WAS EQUALLED OR EXCEEDED FOR THE INDICATED PERCENTAGE OF TIME	1%	5%	10%	25%	50%	75%	90%	95%	99%
	3750	3360	3120	2780	2200	1820	659	486	391

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
IRON (FE), UG/L				22	10.00	350.00
MANGANESE (MN), UG/L				23	0.00	150.00

STATISTICAL SUMMARY OF WATER QUALITY DATA

STATION NUMBER: 09372000 NAME: MCELMO CREEK NEAR COLORADO-UTAH STATE LINE

LAT 37 19'27" LONG 109 00'54" DRAINAGE AREA: 350.001 SQ MI (906.503 SQ KM)

STATISTICAL SUMMARY OF SELECTED DISSOLVED CHEMICAL CONSTITUENTS AND
REGRESSION RELATIONSHIPS OF CONSTITUENT CONCENTRATIONS TO SPECIFIC CONDUCTANCE

CONSTITUENT	CONSTITUENT (MG/L OR UNIT SHOWN)					REGRESSION SUMMARY				
	SAMPLE SIZE	MEAN	STANDARD DEVIATION	RANGE		SAMPLE SIZE	REGRESSION COEFFICIENT, B	CONSTANT, A	CORRELATION COEFFICIENT	STANDARD ERROR OF ESTIMATE
TEMPERATURE, WATER (DEG C)	41	12.44	8.72	0.00	27.00					
STREAMFLOW, MEAN DAILY, (CFS)	17	64.71	33.58	14.60	133.00					
STREAMFLOW (CUBIC FT/SEC)	11	32.09	38.06	5.89	139.00					
SPECIFIC CONDUCTANCE (MICROMHOS)	41	2948.78	915.38	580.00	4500.00					
OXYGEN, DISSOLVED	20	9.18	1.77	6.70	13.00					
PH (STANDARD UNITS)	27			6.80	8.40					
BICARBONATE ION	20	313.70	45.89	250.00	420.00	19	0.05171	157.04017	0.6979	34.14111
NITRITE + NITRATE, DISSOLVED AS N	5	2.70	1.62	1.50	5.40					
ORTHOPHOSPHATE, DISSOLVED AS P	5	0.05	0.02	0.02	0.08					
HARDNESS, TOTAL	19	1592.11	373.13	930.00	2000.00	18	0.56212	-131.588	0.9497	119.48378
CALCIUM, DISSOLVED	20	303.25	59.55	190.00	390.00	19	0.08803	36.28407	0.9326	21.91059
MAGNESIUM, DISSOLVED	20	200.15	55.39	110.00	277.00	19	0.08231	-49.31064	0.9351	20.07162
SODIUM, DISSOLVED	20	223.20	71.45	100.00	360.00	19	0.09497	-68.21194	0.9060	28.53656
POTASSIUM, DISSOLVED	20	6.40	1.37	4.30	8.80					
CHLORIDE, DISSOLVED	20	49.85	16.18	20.00	76.00	19	0.02148	-15.43764	0.8409	8.89283
SULFATE, DISSOLVED	20	1653.50	451.55	820.00	2200.00	19	0.68200	-416.252	0.9588	129.93951
SILICA, DISSOLVED	16	9.40	2.45	3.20	13.00					
BORON, DISSOLVED, UG/L	11	222.73	50.81	140.00	310.00					
DISSOLVED SOLIDS, ROE 180 DEG C	14	2838.57	608.60	1940.00	3600.00	14	1.09616	-535.266	0.9598	177.75269
DISSOLVED SOLIDS, SUM OF CONST	20	2603.50	659.32	1400.00	3450.00	19	0.99470	-417.814	0.9631	178.82693

CONSTITUENT	TOTAL			DISSOLVED		
	NO. SAMPLES	MINIMUM	MAXIMUM	NO.	MINIMUM CONC.	MAXIMUM CONC.
MINOR ELEMENTS:						
ARSENIC (AS), UG/L				4	1.00	2.00
CADMIUM(CD), UG/L				4	0.00	2.00
CHROMIUM (CR), UG/L				4	0.00	5.00
COPPER (CU), UG/L				4	2.00	6.00
IRON (FE), UG/L				11	10.00	70.00
LEAD (PB), UG/L				4	0.00	2.00
MANGANESE (MN), UG/L				4	50.00	240.00
MERCURY (HG), UG/L				4	0.00	0.00
SELENIUM (SE), UG/L				4	0.00	15.00
ZINC (ZN), UG/L				4	10.00	20.00

U.S. GOVERNMENT PRINTING OFFICE 1980—677-129/8