

HYDROLOGIC DATA FOR URBAN STORM RUNOFF  
IN THE DENVER METROPOLITAN AREA, COLORADO

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## METRIC CONVERSION FACTORS

<i>Multiply</i>	<i>By</i>	<i>To obtain</i>
inch	25.40	millimeter
foot (ft)	0.3048	meter
acre	0.4047	hectare
square mile	2.590	square kilometer
cubic foot (ft <sup>3</sup> )	0.02832	cubic meter
cubic foot per second (ft <sup>3</sup> /s)	0.02832	cubic meter per second
ton per acre-foot	$1.119 \times 10^{-3}$	metric ton per cubic hectometer
ton per day	0.0972	metric ton per day
yard	0.9144	meter



ambient water-quality samples.--Water-quality samples collected during nonstorm-runoff periods.

basin drainage.--A region or area bounded by a drainage divide and occupied by a drainage system; specifically the tract of country that gathers water originating as precipitation and contributes it to a particular stream channel or system of channels or to a lake, reservoir, or other body of water.

detention pond.--A pond wherein water is stored for a relatively brief period of time, part of it being detained until the stream can safely carry the ordinary flow plus released water.

impervious areas.--Areas which do not permit percolation of water, such as streets, sidewalks, roofs, and paved parking lots.

impervious areas, effective.--Impervious areas which are connected and, in turn, connect to some means of conveying the runoff out of the areas, such as roofs which drain onto driveways, streets, sidewalks, and paved parking lots.

impervious areas, noneffective.--Impervious areas which are not connected to other impervious areas and which drain to pervious areas, such as roofs which drain onto lawns.

land use.--A term which relates to both the physical characteristics of the land surface and the human activities associated with the land surface (Alley, 1976).

load.--The total amount of constituents in storm runoff, for a specified period of time, discharged into a receiving water.

pervious areas.--Areas that allow percolation of water, such as lawns and fields of porous material.

receiving water.--"Natural" body of water that receives runoff from one or more catchments; this may include a tributary, river, estuary, bay, lake, or other body of water.

Thiessen coefficient.--A proportion of the area of the subcatchment represented by each rain gage.

urban storm runoff.--Storm-generated surface runoff from an urban drainage area. The term may relate to either the quantity or quality of the runoff or both, depending upon its application (Alley, 1976).

# HYDROLOGIC DATA FOR URBAN STORM RUNOFF IN THE DENVER METROPOLITAN AREA, COLORADO

By Johnnie W. Gibbs and John T. Doerfer

## ABSTRACT

Storm runoff may increase the constituent loads of the principal natural bodies of water in the Denver metropolitan area. Because data on urban storm runoff are lacking and because Congress requires a nationwide assessment of storm runoff by 1983, the U.S. Geological Survey began a special program in 1980 to collect data on storm runoff in the Denver area. Urban storm-runoff data collected from April through September 1981 from nine Denver Regional Urban Runoff Program sites, urban storm runoff data collected from April 1980 through September 1981 from ten South Platte River study sites, and rainfall-runoff simulation data collected in June 1980 and May 1981 from two sites are presented in this report.

The Denver Regional Urban Runoff Program sites were two single-family residential areas, two multifamily residential areas, one commercial area (shopping center), one mixed commercial and multifamily residential area, one natural area (open space), and two detention ponds. The South Platte River study sites were six tributaries of the South Platte River and four main-stem sites on the South Platte River. The tributary sites were Bear Creek at mouth, at Sheridan; Harvard Gulch at Harvard Park, at Denver; Sanderson Gulch at mouth, at Denver; Weir Gulch at mouth, at Denver; Lakewood Gulch at mouth, at Denver; and Cherry Creek at Denver. The main-stem sites were South Platte River at Littleton; South Platte River at Florida Avenue, at Denver; South Platte River at Denver; and South Platte River at 50th Avenue, at Denver. The rainfall-runoff simulation sites were North Avenue at Denver Federal Center, at Lakewood and Rooney Gulch at Rooney Ranch, near Morrison. Precipitation, rainfall-runoff, water-quality data, and basin characteristics were collected at the urban storm-runoff sites. The urban storm-runoff data may be used to characterize runoff loading for various land use types in Denver and other semiarid areas.

## INTRODUCTION

A recent report by the Colorado Department of Health (Anderson, 1978) concluded that the major receiving waters in the Denver region (fig. 1) are greatly affected by nonpoint sources of pollution. Results of nonpoint source loading studies in the Denver metropolitan area by Alley and Ellis (1978) and Hall and Duncan (1981) indicate loads are delivered to area streams from various sources each year.

Due to lack of sufficient data on urban storm runoff, to comply with a Congressional mandate to conduct a nationwide assessment of urban storm runoff, and to present these findings to Congress in 1983, the U.S. Geological Survey entered into a cooperative agreement with the Denver Regional Council of Governments to

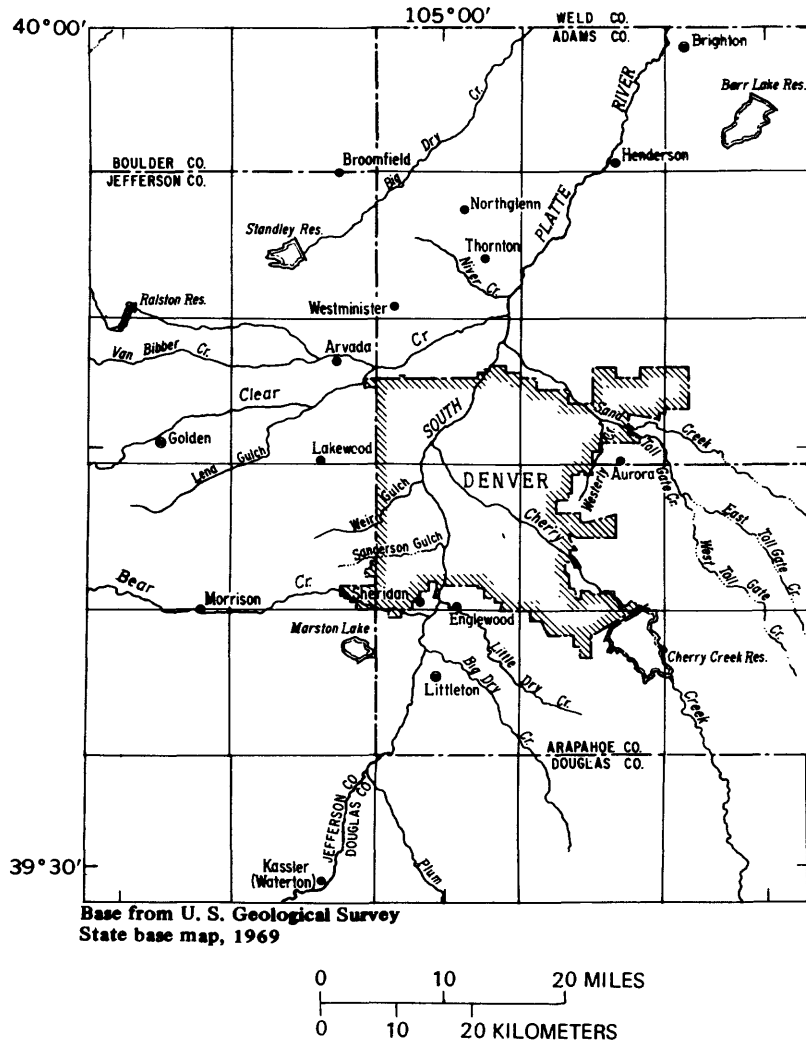


Figure 1.-- Location of study area and general features.

collect data from April 1980 through September 1981. Urban storm-runoff data for 1980 for the Denver phase of the Nationwide Urban Runoff Program, referred to in this report as the Denver Regional Urban Runoff Program, were presented by Gibbs (1981). Also included in the report were modeling data for the U.S. Geological Survey's Distributed Routing Rainfall Runoff Model, Version II (W. M. Alley and P. E. Smith, U.S. Geological Survey, written commun., 1980), with the exception of data from Rooney Gulch at Rooney Ranch, near Morrison.

The U.S. Geological Survey and the Denver Regional Council of Governments selected nine Denver Regional Urban Runoff Program sites and ten South Platte River study sites (plate 1) for the study. The Denver Regional Urban Runoff Program sites were two single-family residential areas, two multifamily residential areas, one commercial area (shopping center), one mixed commercial and multifamily residential area, one natural area (open space), and two detention ponds. The South Platte River study sites were six South Platte River tributaries: Bear Creek, Harvard Gulch, Sanderson Gulch, Weir Gulch, Lakewood Gulch, and Cherry Creek; and four main-stem sites: South Platte River at Littleton, South Platte River at Florida Avenue, South Platte River at Denver, and South Platte River at 50th Avenue. Also selected were two rainfall-runoff simulation sites: North Avenue at Denver Federal Center, at Lakewood and Rooney Gulch at Rooney Ranch, near Morrison.

### Approach

#### Denver Regional Urban Runoff Program

Denver Regional Urban Runoff Program sites contained several types of instruments. Instrumentation consisted of a rain gage, stage- and discharge-recording equipment, water-quality sampling equipment, atmospheric-deposition sampler, input output digital recorder, and the system control unit.

Rain gages were of two types--a tipping bucket rain gage and a 3-inch pipe gage equipped with a float and digital recorder. Tipping-bucket rain gages not at the monitoring site were connected to the system control unit via telephone lines. Pipe gages were used for the outlying Rooney Gulch site, due to the lack of telephone lines.

Water-stage and discharge-recording equipment consisted of three types of instruments: velocity-modified flow meter, digital water-stage recorder, and continuous strip-chart water-stage recorder. Velocity-modified flow meters were used at the Asbury Park Storm Drain at Denver and at the Villa Italia Storm Drain at Lakewood. A digital water-stage recorder and culvert computations were used to determine discharge at the North Avenue Storm Drain at Denver Federal Center North Avenue, at Lakewood. Continuous strip-chart water-stage recorders and Parshall flumes were used at the Big Dry Creek tributary at Easter Street, near Littleton; Rooney Gulch at Rooney Ranch, near Morrison; and the Storm Drain at 116th Avenue and Claude Court, at Northglenn. Continuous strip-chart water-stage recorders and a V-notched weir were used at the North Avenue Storm Drain at Denver Federal Center, at Lakewood. Continuous strip-chart water-stage recorders and culvert computations were used to determine discharge at the Asbury Park Storm Drain at Asbury Avenue, at Denver and at the Cherry Knolls Storm Drain at Denver.

Representative water-quality samples were collected by an automated water sampler with the capacity to collect 24 3-liter samples. The sampler was mounted on a commercial chest-type home freezer that preserved the samples by rapidly chilling them to 4°C.

Atmospheric-deposition collectors were used at seven sites (table 1) to collect atmospheric-fallout samples. These samples were collected by a mechanism which opens the wetfall collector when precipitation begins and simultaneously closes the dryfall collector. This procedure is reversed when precipitation ceases.

The system control unit with its programmable features provides a means of tailoring basic programs to fit the individual basins sampled in the Denver Regional Urban Runoff Program. The Julian day, time, number of the sample, and incremental rainfall are recorded on 16-channel paper tape by an input-output digital recorder. The recording interval was 5 minutes at all sites, with the exception of the site at Rooney Gulch at Rooney Ranch, near Morrison, which was 15 minutes.

Table 1.--*Location of atmospheric-deposition samplers in the Denver Regional Urban Runoff Program*

Site name	Location	Latitude	Longitude
Big Dry Creek tributary at Easter Street, near Littleton-----	Gagehouse roof---	39°35'17"	104°57'20"
Rooney Gulch at Rooney Ranch, near Morrison-----	Gagehouse roof---	39°41'27"	105°11'32"
Asbury Park Storm Drain at Denver-	Library roof-----	39°40'57"	105°01'32"
North Avenue Storm Drain at Denver Federal Center, at Lakewood-----	Upstream gage-house roof-----	39°43'21"	105°07'47"
Cherry Knolls Storm Drain at Denver-----	Gagehouse roof---	39°38'58"	104°52'47"
Storm Drain at 116th Avenue and Claude Court, at Northglenn-----	Gagehouse roof---	39°54'23"	104°57'34"
Villa Italia Storm Drain at Lakewood-----	Roof of "World of Sleep" store---	39°42'36"	105°04'24"

## DESCRIPTION OF THE DENVER REGIONAL URBAN RUNOFF PROGRAM SITES

The following data were obtained for the nine Denver Regional Urban Runoff Program monitoring sites: station identification number, name of site, latitude and longitude, drainage area, and the effective impervious area (Alley and Veenhuis, 1979). These data are presented in table 2. Locations of rain gages for each site are presented in table 3.

An aerial photograph showing the outline of the study area and subcatchments and location of rain gages and monitoring sites in Rooney Gulch at Rooney Ranch is shown on plate 2. Aerial photographs showing the outlines of the study area and subcatchments, location of rain gages, and monitoring sites in Big Dry Creek tributary at Easter Street, the Asbury Park Storm Drains, the North Avenue Storm Drains at the Denver Federal Center, Cherry Knolls Storm Drain, the Storm Drain at 116th Avenue, and the Villa Italia Storm Drain are shown in Gibbs (1981).

All basin data and water-quality samples were analyzed by the U.S. Geological Survey at the Denver Central Laboratory. Each of the nine sites is described below.

### 06710225 Big Dry Creek tributary at Easter Street, near Littleton

Big Dry Creek tributary at Easter Street drains a multifamily residential area in southwest metropolitan Denver. The basin consists of 33 acres, and the effective impervious area is 41 percent. The basin contains two swimming pools and two small (less than an acre) open-space areas. The monitoring site was in a small natural drainage tributary to Big Dry Creek. A 2-foot Parshall flume was used to measure flow.

Two rain gages were located in the basin. Rain gage 1 was at the monitoring shelter, and rain gage 2 was at the Southglenn Commons Clubhouse.

### 06710610 Rooney Gulch at Rooney Ranch, near Morrison

Rooney Gulch at Rooney Ranch drains an open space in Jefferson County. The basin consists of 405 acres, and the effective impervious area is 0.6 percent. The monitoring site was approximately 300 yards upstream from Alameda Parkway and 100 yards east of Rooney Road. A 1-foot Parshall flume was used to measure flow.

Three rain gages were located in the basin. Rain gage 1 was at the monitoring shelter, rain gage 2 was near the north boundary of the study area, and rain gage 3 was near the east boundary of the study area (plate 2).

Table 2.--*Selected data for monitoring sites and drainage basins in the Denver Regional Urban Runoff Program*

U.S. Geological Survey site No.	Name of monitoring site	Latitude	Longitude	Drainage area, in acres	Percent of area covered by effective impervious surface
06710225	Big Dry Creek tributary at Easter Street, near Littleton.	39°35'17"	104°57'20"	33	41
06710610	Rooney Gulch at Rooney Ranch, near Morrison.	39°41'27"	105°11'32"	405	.6
06711585	Asbury Park Storm Drain at Denver.	39°40'52"	105°00'42"	121	22
06711586	Asbury Park Storm Drain at Asbury Avenue, at Denver.	39°40'51"	105°00'41"	127	22
06711635	North Avenue Storm Drain at Denver Federal Center, at Lakewood.	39°43'21"	105°07'47"	69	50
06711637	North Avenue Storm Drain at Denver Federal Center North Avenue, at Lakewood.	39°43'22"	105°07'36"	80	46
06713010	Cherry Knolls Storm Drain at Denver.	39°38'58"	104°52'47"	57	38
06720420	Storm Drain at 116th Avenue and Claude Court, at Northglenn.	39°54'23"	104°57'34"	167	24
394236105042400	Villa Italia Storm Drain at Lakewood.	39°42'36"	105°04'24"	74	91

Table 3.--Location of rain gages  
in the Denver Regional Urban Runoff Program

Site name	Rain gage No.	Location	Latitude	Longitude
Big Dry Creek tributary at Easter Street, near Littleton.	1	Gagehouse roof-----	39°35'17"	104°57'20"
	2	Clubhouse roof-----	39°35'11"	104°57'38"
Rooney Gulch at Rooney Ranch, near Morrison.	1	Gagehouse roof-----	39°41'27"	105°11'32"
	2	Northeast of sub- station-----	39°41'58"	105°11'30"
	3	Plateau of ridge-----	39°42'01"	105°10'49"
Asbury Park Storm Drain at Denver.	1	Upstream gagehouse roof-----	39°40'52"	105°00'42"
	2	Downstream gagehouse roof-----	39°40'51"	105°00'41"
	3	Library roof-----	39°40'57"	105°01'32"
North Avenue Storm Drain at Denver Federal Center, at Lakewood.	1	Upstream gagehouse roof-----	39°43'21"	105°07'47"
	2	Downstream gagehouse roof-----	39°43'22"	105°07'36"
Cherry Knolls Storm Drain at Denver.	1	Gagehouse roof-----	39°38'58"	104°52'47"
	2	Pumphouse roof-----	39°38'49"	104°52'55"
Storm Drain at 116th Avenue and Claude Court, at Northglenn.	1	Gagehouse roof-----	39°54'23"	104°57'34"
	2	School roof-----	39°54'31"	104°58'02"
	3	Church roof-----	39°54'49"	104°58'00"
Villa Italia Storm Drain at Lakewood.	1	Roof of "World of Sleep" store-----	39°42'36"	105°04'24"



06711585 Asbury Park Storm Drain at Denver

Asbury Park Storm Drain drains a mixed commercial and residential area in southwest Denver. The basin consists of 121 acres, of which 14 percent is light commercial, 52 percent is low-density single-family residential (1/2-acre lots), and 34 percent is high-density single-family residential (1/6-acre lots). The effective impervious area is 22 percent. The monitoring site was at a 48-inch storm drain, inlet to the detention pond near the north boundary of Asbury Park. A velocity-modified flowmeter was used to measure flow. One rain gage was located in the basin on the monitoring shelter.

06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

Asbury Park Storm Drain at Asbury Avenue is approximately 100 yards downstream from the Asbury Park Storm Drain; the basin drained includes the Asbury Park Storm Drain and a detention pond of 7,000-ft<sup>3</sup> capacity. The basin consists of 127 acres, and the effective impervious area is 22 percent. The monitoring site was on the south side of the detention pond at the outlet. Culvert computations were used to determine flow.

Two rain gages were located in the basin. Rain gage 2 was on the monitoring shelter, and rain gage 3 was on Hadley Library.

06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood

North Avenue Storm Drain at Denver Federal Center drains a mixed light commercial and multifamily residential area in southwest Lakewood. The basin consists of 69 acres, and the effective impervious area is 50 percent. The basin is approximately 33-percent multifamily residential, 30-percent light commercial, and 37-percent open space. The monitoring site was on an open storm drain at the Denver Federal Center. A V-notched weir was used to determine flow. One rain gage was located in the basin on the monitoring shelter.

06711637 North Avenue Storm Drain at Denver Federal Center North Avenue,  
at Lakewood

North Avenue Storm Drain at Denver Federal Center North Avenue is approximately 150 yards downstream from the North Avenue Storm Drain at the Denver Federal Center, and the basin drained includes the North Avenue Storm Drain and a detention pond of 200,000-ft<sup>3</sup> capacity. The basin consists of 80 acres, and the effective impervious area is 46 percent. The monitoring site was on the east side of the detention pond at the outlet. Culvert computations were used to determine flow. One rain gage was located in the basin on the monitoring shelter.

06713010 Cherry Knolls Storm Drain at Denver

Cherry Knolls Storm Drain is in a multifamily residential area in southeast Denver. The basin consists of 57 acres, and the effective impervious area is 38 percent. There are four swimming pools and several open areas in the basin. The monitoring site was at the outlet of a small detention pond, which has no effect on outflow from the basin because the outlet flow capacity is greater than the inlet flow capacity. Flow was determined using culvert computation.

Two rain gages were located in the basin. Rain gage 1 was on the monitoring shelter, and rain gage 2 was at the Second Cherry Creek Townhouse pump building.

06720420 Storm Drain at 116th Avenue and Claude Court, at Northglenn

The storm drain at 116th Avenue and Claude Court drains a single-family residential area in northeast Northglenn. The basin consists of 167 acres in 1/6-acre lots, and the effective impervious area is 24 percent. The one school and church in the basin are considered functional parts of the single-family residential area. The monitoring site was at the storm drain east of 116th Avenue and Claude Court. A 4-foot Parshall flume was used to measure flow.

Three rain gages were located in the basin. Rain gage 1 was at the monitoring shelter, rain gage 2 was at Northeast Junior High School, and rain gage 3 was at Calvary Community Baptist Church.

394236105042400 Villa Italia Storm Drain at Lakewood

Villa Italia Storm Drain is in a light commercial area in Lakewood. The basin consists of 74 acres and the effective impervious area is 91 percent. The monitoring site was near a 42-inch storm drain on the east side of the Villa Italia Shopping Center. A velocity-mounted flowmeter was used to determine flow. One rain gage in the basin was located on the roof of the "World of Sleep" store.

## DESCRIPTION OF THE SOUTH PLATTE RIVER STUDY SITES

South Platte River study site instrumentation consisted of rain gage and water-stage recording equipment. Rain gages were 3-inch pipes equipped with floats and digital recorders. Water-stage recording equipment included a digital water-stage recorder, continuous strip-chart water-stage recorder, and staff gage. A network of existing rain gages (plate 1) from various other studies in the Denver metropolitan area was used to provide 5-minute rainfall data. Previous rainfall data (October 1977 through September 1980) were presented by Cochran and others (1982).

Digital water-stage recorders and stage-discharge relationships (developed from current-meter measurements and channel geometry) were used at the South Platte River at Littleton; Bear Creek at mouth, at Sheridan; and Harvard Gulch at Harvard Park. Continuous strip-chart water-stage recorders and stage-discharge relationships (developed from current-meter measurements and channel geometry) were used to determine streamflow at the South Platte River at Florida Avenue, Cherry Creek at Denver, the South Platte River at Denver, and the South Platte River at 50th Avenue, at Denver. Staff gages and stage-discharge rating curves (developed using a step-backwater model) were used to compute discharge from stage observations at Sanderson Gulch at mouth, Weir Gulch at mouth, and Lakewood Gulch at mouth.

The South Platte River study water-quality samples were representative samples collected at base flow and at various stages of the hydrograph. The number of water samples ranged from 4 to 12 per storm depending on storm-runoff intensity and duration.

Data obtained for the ten South Platte River study sites were: station identification number, name of site, latitude and longitude, drainage area, and effective impervious area (Alley and Veenhuis, 1979). These data are presented in table 4. South Platte River study basins, sites, and rain-gage locations are shown on plate 1. Basic data, precipitation, water-quality sample collection, and water-quality analyses are discussed in each basin description. The following section describes each of the ten sites.

#### 06710000 South Platte River at Littleton

The South Platte River at Littleton streamflow-gaging station marked the upper boundary of the study area. The basin above the streamflow-gaging station was considered to have an insignificant effect on urban storm runoff because runoff is retained in Chatfield Lake.

Data collected for the site were storm-runoff water quality, ambient water quality, precipitation, stream discharge, and basin characteristics. Storm-runoff water-quality samples and ambient water-quality samples were collected by the Denver Regional Council of Governments and analyzed by the Metropolitan Denver Sewage Disposal District No. 1 Laboratory. Precipitation and stream-discharge data were provided by the U.S. Geological Survey, and basin characteristics were provided by the Denver Regional Council of Governments.

Table 4.--*Selected data for monitoring sites and drainage basins  
in the South Platte River study*

[NA=Not applicable]

U.S. Geological Survey site No.	Name of monitoring site	Latitude	Longitude	Drainage area in study area, in acres	Percent of area covered by effective impervious surface
06710000	South Platte River at Littleton-----	39°37'08"	105°01'07"	0	NA
06711500	Bear Creek at mouth, at Sheridan-----	39°39'08"	105°01'57"	15,400	16
06711575	Harvard Gulch at Harvard Park, at Denver-----	39°40'21"	104°58'35"	2,830	30
06711590	South Platte River at Florida Avenue, at Denver-----	39°41'23"	104°59'57"	58,810	16
06711610	Sanderson Gulch at mouth, at Denver-----	39°41'24"	104°59'57"	4,720	24
06711622	Weir Gulch at mouth, at Denver-----	39°43'52"	105°01'04"	4,790	22
06711800	Lakewood Gulch at mouth, at Denver-----	39°44'14"	105°01'21"	10,400	33
06713500	Cherry Creek at Denver--	39°44'58"	105°00'08"	15,800	27
06714000	South Platte River at Denver-----	39°45'35"	105°00'10"	108,000	22
06714130	South Platte River at 50th Avenue, at Denver-----	39°47'13"	104°58'28"	120,000	23

06711500 Bear Creek at mouth, at Sheridan

Bear Creek basin consists of 15,400 acres between Mount Carbon Dam and the streamflow-gaging station Bear Creek at Sheridan. The basin above Mount Carbon Dam was considered to have an insignificant effect on urban storm runoff because runoff is retained in Bear Creek Lake. The basin is approximately 33-percent residential, 56-percent open space (parks, vacant, and agricultural area), and 11-percent commercial and industrial. The effective impervious area is 16 percent.

Data collected for the site were storm-runoff water quality, ambient water quality, precipitation, stream discharge, and basin characteristics. The storm-runoff water-quality samples were collected by the U.S. Geological Survey and analyzed by the U.S. Geological Survey at the Denver Central Laboratory. Ambient water-quality samples were collected by the Denver Regional Council of Governments and analyzed by the Metropolitan Denver Sewage Disposal District No. 1 Laboratory. Precipitation data were provided by the U.S. Geological Survey, stream-discharge data by the Colorado Division of Water Resources, State Engineer's Office, and basin characteristics by the Denver Regional Council of Governments.

06711575 Harvard Gulch at Harvard Park, at Denver

Harvard Gulch basin consists of 2,830 acres between the headwaters and Harvard Gulch streamflow-gaging station at Harvard Park. The basin is approximately 72-percent residential, 17-percent commercial and industrial, and 11-percent open space (parks and vacant area), and the effective impervious area is 27 percent.

Data collected for the site were storm-runoff water quality, ambient water quality, precipitation, stream-discharge, and basin characteristics. The storm-runoff water-quality samples were collected by the U.S. Geological Survey and analyzed by the U.S. Geological Survey at the Denver Central Laboratory. Ambient water-quality samples were collected by the Denver Regional Council of Governments and analyzed by the Metropolitan Denver Sewage Disposal District No. 1 Laboratory. Precipitation and stream-discharge data were provided by the U.S. Geological Survey, and basin characteristics were provided by the Denver Regional Council of Governments.

06711590 South Platte River at Florida Avenue, at Denver

The South Platte River basin at Florida Avenue consists of 58,811 acres between streamflow gaging stations South Platte River at Littleton and South Platte River at Florida Avenue. The basin is approximately 34-percent residential, 12-percent commercial and industrial, and 54-percent open space (parks, vacant, and agricultural areas), and the effective impervious area is 16 percent.

Data collected for the site were storm-runoff water quality, ambient water quality, precipitation, stream-discharge, and basin characteristics. The storm-runoff water-quality samples and ambient water-quality samples were collected by the Denver Regional Council of Governments and analyzed by the Metropolitan Denver Sewage Disposal District No. 1 Laboratory. Precipitation and stream-discharge data were provided by the U.S. Geological Survey, and basin characteristics were provided by the Denver Regional Council of Governments.

06711610 Sanderson Gulch at mouth, at Denver

Sanderson Gulch basin consists of 4,720 acres. The basin is approximately 65-percent residential, 20-percent open space (parks and vacant area), and 15-percent commercial and industrial, and the effective impervious area is 24 percent.

Data collected for the site were storm-runoff water quality, ambient water quality, precipitation, stream discharge, and basin characteristics. The storm-runoff water-quality samples were collected by the U.S. Geological Survey and analyzed by the U.S. Geological Survey at the Denver Central Laboratory. Ambient water-quality samples were collected by the Denver Regional Council of Governments and analyzed by the Metropolitan Denver Sewage Disposal District No. 1 Laboratory. Precipitation and stream-discharge data were provided by the U.S. Geological Survey, and basin characteristics were provided by the Denver Regional Council of Governments.

06711622 Weir Gulch at mouth, at Denver

Weir Gulch basin consists of 4,790 acres. The basin is approximately 65-percent residential, 24-percent open space (parks, vacant, and agricultural area), and 11-percent commercial and industrial, and the effective impervious area is 24 percent.

Data collected for the site were storm-runoff water quality, ambient water quality, precipitation, stream discharge, and basin characteristics. The storm-runoff water-quality samples were collected by the U.S. Geological Survey and analyzed by the U.S. Geological Survey at the Denver Central Laboratory. Ambient water-quality samples were collected by the Denver Regional Council of Governments and analyzed by the Metropolitan Denver Sewage Disposal District No. 1 Laboratory. Precipitation and stream-discharge data were provided by the U.S. Geological Survey, and basin characteristics were provided by the Denver Regional Council of Governments.

06711800 Lakewood Gulch at mouth, at Denver

Lakewood Gulch basin consists of 10,400 acres. The basin is approximately 55-percent residential, 25-percent commercial and industrial, and 20-percent open space (parks and vacant area), and the effective impervious area is 33 percent.

Data collected for the site were storm-runoff water quality, ambient water quality, precipitation, stream discharge, and basin characteristics. The storm-runoff water-quality samples were collected by the U.S. Geological Survey and analyzed by the U.S. Geological Survey at the Denver Central Laboratory. Ambient water-quality samples were collected by the Denver Regional Council of Governments and analyzed by the Metropolitan Denver Sewage Disposal District No. 1 Laboratory. Precipitation and stream-discharge data were provided by the U.S. Geological Survey, and basin characteristics were provided by the Denver Regional Council of Governments.

06713500 Cherry Creek at Denver

Cherry Creek basin consists of 15,800 acres between Cherry Creek Dam and the streamflow-gaging station Cherry Creek at Denver. The area above Cherry Creek Dam was considered to have an insignificant effect on urban storm runoff because runoff is retained by Cherry Creek Lake. The basin is approximately 41-percent residential, 48-percent open space (parks and vacant area), and 11-percent commercial and industrial, and the effective impervious area is 27 percent.

Data collected for the site were storm-runoff water quality, ambient water quality, precipitation, stream discharge, and basin characteristics. The storm-runoff water-quality samples and the ambient water-quality samples were collected by the Denver Regional Council of Governments and analyzed by the Metropolitan Denver Sewage Disposal District No. 1 Laboratory. Precipitation and stream-discharge data were provided by the U.S. Geological Survey, and basin characteristics were provided by the Denver Regional Council of Governments.

06714000 South Platte River at Denver

The South Platte River at Denver basin consists of 108,000 acres between the streamflow-gaging stations South Platte River at Littleton and South Platte River at Denver. The basin is approximately 43-percent residential, 40-percent open space (parks, vacant, and agricultural area), and 17-percent commercial and industrial, and the effective impervious area is 22 percent.

Data collected for the site were storm-runoff water quality, ambient water quality, precipitation, stream discharge, and basin characteristics. The storm-runoff water-quality samples and the ambient water-quality samples were collected by the Denver Regional Council of Governments and analyzed by the Metropolitan Denver Sewage Disposal District No. 1 Laboratory. Precipitation data were provided by the U.S. Geological Survey. Stream-discharge data were provided by the Colorado Division of Water Resources, State Engineer's Office, and basin characteristics were provided by the Denver Regional Council of Governments.

06714130 South Platte River at 50th Avenue, at Denver

The South Platte River at 50th Avenue basin consists of 120,000 acres between the streamflow-gaging stations South Platte River at Littleton and South Platte River at 50th Avenue. The basin is approximately 43-percent residential, 38-percent open space (parks and vacant area), and 19-percent commercial and industrial, and the effective impervious area is 23 percent.

Data collected for the site were storm-runoff water quality, ambient water quality, precipitation, stream discharge, and basin characteristics. Urban storm-runoff water-quality samples and ambient water-quality samples were collected by the Denver Regional Council of Governments and analyzed by the Metropolitan Denver Sewage Disposal District No. 1 Laboratory. Precipitation and stream-discharge data were provided by the U.S. Geological Survey, and basin characteristics were provided by the Denver Regional Council of Governments.

#### RAINFALL-RUNOFF SIMULATION STUDY

Rainfall-runoff simulation studies were completed at North Avenue at Denver Federal Center, at Lakewood June 2 through June 6, 1980, and at Rooney Gulch at Rooney Ranch, near Morrison May 20, 1981. Rainfall-runoff simulation equipment consists of sprinklers, storage rain gages, and discharge-measuring equipment. The rotating type sprinkler heads, arranged in a grid pattern in the study plot, were mounted on 10-foot riser pipes. Each head assembly is equipped with a pressure regulation valve, and water is supplied from a tank truck and a supplemental rubber reservoir to the sprinkler assemblies through fire hoses (Lusby and Toy, 1976). Rainfall was collected in storage rain gages, and total rainfall per plot was determined using the Thiessen Polygon method (Thiessen, 1911). Runoff-discharge hydrographs were determined using discharge-measuring equipment, and water-quality samples were collected at various time increments to provide coverage of the runoff hydrograph.



## DESCRIPTION OF THE RAINFALL-RUNOFF SIMULATION SITES

Selected data for the two rainfall-runoff simulation sites consist of: name of site, size of plots, and intensity of rainfall. All basin data and water-quality samples were collected by the U.S. Geological Survey and analyzed by the U.S. Geological Survey at the Denver Central Laboratory. The following section describes each of the two sites.

### North Avenue at Denver Federal Center, at Lakewood

North Avenue (plate 1) was divided into nine 25- x 40-foot sections separated by buffer zones. Rainfall intensities of 0.5 inch and 2 inches per hour were simulated on the two plots each day for 5 days with the exception of the last day, on which a rainfall intensity of only 0.5 inch per hour was simulated. A 1-inch cut-throat flume, which was volumetrically calibrated, was used to determine runoff.

### Rooney Gulch at Rooney Ranch, near Morrison

Two grassland plots, 20 x 20 feet, were selected at Rooney Ranch near Morrison (plate 1) for the application of simulated rainfall. Rainfall intensities ranged from 1.4 to 2.1 inches per hour and approximately 1.5 hours elapsed between each simulation. Runoff discharge was determined using volumetric methods.

## RAINFALL DATA FOR DENVER REGIONAL URBAN RUNOFF PROGRAM

Daily rainfall was estimated using the Thiessen Polygon method (Thiessen, 1911), and the data are presented for the following:

Station number and name	Table
06710225 Big Dry Creek tributary at Easter Street-----	5
06710610 Rooney Gulch at Rooney Ranch-----	6
06711585 Asbury Park Storm Drain-----	7
06711586 Asbury Park Storm Drain at Asbury Avenue-----	8
06711635 North Avenue Storm Drain at Denver Federal Center-----	9
06711637 North Avenue Storm Drain at Denver Federal Center North Avenue----	10
06713010 Cherry Knolls Storm Drain-----	11
06720420 Storm Drain at 116th Avenue and Claude Court-----	12
394236105042400 Villa Italia Storm Drain-----	13

Table 5.--Rainfall for April through September 1981, estimated using  
unofficial gages, at station 06710225 Big Dry Creek tributary  
at Easter Street, near Littleton

[Rainfall, in inches]

1981

Day	April	May	June	July	August	September
1	0.00	0.00	0.00	0.00	0.00	0.00
2	.00	.00	.10	.05	.00	.00
3	.44	.63	.18	.00	.00	.03
4	.04	.01	.01	.00	.00	.00
5	.00	.00	.00	.00	.00	.00
6	.00	.07	.00	.00	.06	.04
7	.00	.00	.00	.29	.00	.10
8	.17	.00	.00	.00	.00	.00
9	.00	<sup>1</sup> .22	.00	.00	.51	.00
10	.00	.00	.01	.00	.02	.00
11	.00	.00	.02	.00	.03	.00
12	.00	.27	.84	.28	.02	.00
13	.00	.04	.00	.12	.05	.00
14	.00	.00	.00	.00	.00	.03
15	.00	.00	.01	.07	.01	.09
16	.00	.10	.00	.02	.00	.03
17	.00	1.08	.00	.59	.00	.00
18	.00	.05	.00	.01	.00	.00
19	.22	.01	.00	.00	.00	.00
20	.00	.01	.00	.00	.01	.01
21	.00	.00	.00	.00	.00	.12
22	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.04	.00
24	.00	.00	.01	.01	.00	.02
25	.00	.01	.00	.00	.00	.00
26	.00	.00	.00	.64	.00	.00
27	.00	.04	.00	.00	.00	.00
28	.00	.35	.03	.00	.00	.00
29	.00	.71	.84	.00	.00	.00
30	.00	.00	.00	.00	.00	.00
31	---	.08	---	.00	.00	---

<sup>1</sup>Mixed rain and snow.

Table 6.--Rainfall for April through September 1981, estimated using  
unofficial gages, at station 06710610 Rooney Gulch at Rooney  
Ranch, near Morrison

[Rainfall, in inches]

1981						
Day	April	May	June	July	August	September
1	0.01	0.01	0.01	0.00	0.00	0.01
2	.01	.00	.26	.13	.00	.02
3	.22	.45	.47	.09	.00	.01
4	.06	.00	.01	.00	.00	.01
5	.00	.11	.01	.00	.01	.01
6	.00	.02	.00	.00	.01	.27
7	.01	.00	.00	.00	.01	.08
8	.13	.00	.00	.00	.01	.01
9	.01	.36	.00	.00	.59	.00
10	.00	.00	.00	.00	.01	.01
11	.00	.02	.00	.07	.01	.00
12	.01	.23	.00	.11	.17	.00
13	.00	.44	.00	.03	.02	.01
14	.00	.00	.00	.00	.01	.00
15	.00	.02	.00	.00	.02	.01
16	.00	.09	.00	.00	.16	.06
17	.00	.82	.00	.00	.01	.00
18	.00	.11	.11	.00	.01	.00
19	.56	.02	.00	.00	.01	.01
20	.15	.00	.00	.00	.02	.00
21	.01	.01	.00	.00	.01	.01
22	.00	.01	.00	.16	.12	.00
23	.00	.00	.00	.00	.01	.00
24	.00	.01	.00	.00	.04	.00
25	.00	.02	.00	.00	.01	.00
26	.00	.01	.02	1.07	.00	.00
27	.00	.05	.00	.00	.01	.00
28	.01	.63	.00	.00	.01	.00
29	.00	.24	.00	.00	.02	.00
30	.00	.01	.00	.00	.01	.00
31	---	.23	---	.00	.09	---

Table 7.--Rainfall for April through September 1981, estimated using  
unofficial gages, at station 06711585 Asbury Park  
Storm Drain at Denver

[Rainfall, in inches]

1981						
Day	April	May	June	July	August	September
1	0.00	0.00	0.01	0.00	0.00	0.00
2	.00	.00	.26	.03	.00	.00
3	.37	.61	.13	.01	.00	.00
4	.00	.01	.01	.00	.00	.00
5	.00	.01	.00	.00	.00	.00
6	.00	.14	.00	.00	.01	.12
7	.00	.00	.00	.22	.01	.09
8	.13	.02	.00	.02	.00	.00
9	.00	.14	.00	.00	.01	.00
10	.00	.00	.00	.00	.01	.00
11	.00	.00	.00	.10	.00	.00
12	.00	.28	.05	.46	.02	.00
13	.00	.02	.00	.05	.00	.00
14	.00	.00	.04	.00	.00	.00
15	.00	.00	.00	.40	.00	.02
16	.00	.27	.00	.00	.01	.00
17	.00	.61	.00	.00	.00	.00
18	.00	.01	.00	.01	.00	.00
19	.14	.00	.00	.12	.00	.00
20	.11	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.04
22	.00	.00	.00	.00	.01	.00
23	.00	.00	.00	.00	.00	.04
24	.00	.04	.00	.00	.00	.01
25	.00	.00	.00	.05	.00	.00
26	.00	.02	.01	.52	.00	.00
27	.00	.25	.00	.00	.01	.00
28	.00	.32	.13	.00	.00	.00
29	.01	.44	.01	.00	.07	.00
30	.01	.00	.00	.00	.00	.00
31	---	.08	---	.00	.00	---

Table 8.--Rainfall for April through September 1981, estimated  
using unofficial gages, at station 06711586 Asbury Park  
Storm Drain at Asbury Avenue, at Denver

[Rainfall, in inches]

1981						
Day	April	May	June	July	August	September
1	0.00	0.00	0.01	0.00	0.00	0.00
2	.00	.00	.26	.03	.00	.00
3	.37	.61	.13	.01	.00	.00
4	.00	.01	.01	.00	.00	.00
5	.00	.01	.00	.00	.00	.00
6	.00	.14	.00	.00	.01	.12
7	.00	.00	.00	.22	.01	.09
8	.13	.02	.00	.02	.00	.00
9	.00	.14	.00	.00	.01	.00
10	.00	.00	.00	.00	.01	.00
11	.00	.00	.00	.10	.00	.00
12	.00	.28	.05	.46	.02	.00
13	.00	.02	.00	.05	.00	.00
14	.00	.00	.04	.00	.00	.00
15	.00	.00	.00	.40	.00	.02
16	.00	.27	.00	.00	.01	.00
17	.00	.61	.00	.00	.00	.00
18	.00	.01	.00	.01	.00	.00
19	.14	.00	.00	.12	.00	.00
20	.11	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.04
22	.00	.00	.00	.00	.01	.00
23	.00	.00	.00	.00	.00	.04
24	.00	.04	.00	.00	.00	.01
25	.00	.00	.00	.05	.00	.00
26	.00	.02	.01	.52	.00	.00
27	.00	.25	.00	.00	.01	.00
28	.00	.32	.13	.00	.00	.00
29	.01	.44	.01	.00	.07	.00
30	.01	.00	.00	.00	.00	.00
31	---	.08	---	.00	.00	---

Table 9.--Rainfall for April through September 1981, estimated using  
an unofficial gage, at station 06711635 North Avenue  
Storm Drain at Denver Federal Center, at Lakewood

[Rainfall, in inches]

1981						
Day	April	May	June	July	August	September
1	0.00	0.00	0.00	0.00	0.00	0.00
2	.00	.00	.22	.12	.00	.00
3	.15	.37	.74	.02	.00	.01
4	.00	.00	.00	.00	.00	.00
5	.01	.08	.00	.00	.00	.00
6	.00	.01	.00	.00	.00	.10
7	.00	.00	.00	.00	.00	.08
8	.08	.00	.00	.00	.00	.00
9	.00	<sup>1</sup> .42	.00	.00	.44	.00
10	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.04	.00	.00
12	.00	.43	.00	.02	.24	.00
13	.00	.00	.00	.04	.01	.00
14	.00	.00	.09	.00	.00	.00
15	.00	.00	.00	.20	.00	.01
16	.00	.14	.00	.03	.04	.02
17	.00	.79	.00	.00	.00	.00
18	.00	.04	.00	.05	.00	.00
19	.39	.00	.00	.01	.00	.00
20	.08	.00	.00	.00	.00	.03
21	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.05	.04	.00
23	.00	.00	.00	.00	.00	.22
24	.00	.09	.00	.00	.00	.02
25	.00	.01	.04	.00	.00	.00
26	.00	.00	.03	1.01	.00	.00
27	.00	.25	.00	.00	.00	.00
28	.00	.27	.01	.00	.00	.00
29	.00	.11	.00	.00	.03	.00
30	.00	.00	.00	.00	.00	.00
31	---	.20	---	.01	.05	---

<sup>1</sup>Mixed rain and snow.

Table 10.--Rainfall for April through September 1981, estimated using  
an unofficial gage at station 06711637 North Avenue  
Storm Drain at Denver Federal Center North Avenue, at Lakewood

[Rainfall, in inches]

1981						
Day	April	May	June	July	August	September
1	0.00	0.00	0.00	0.00	0.00	0.00
2	.00	.00	.19	.11	.00	.00
3	.15	.34	.66	.02	.00	.00
4	.00	.00	.00	.00	.00	.00
5	.01	.08	.00	.00	.00	.00
6	.00	.01	.00	.00	.00	.10
7	.00	.00	.00	.00	.00	.08
8	.08	.00	.00	.00	.00	.00
9	.00	<sup>1</sup> .41	.00	.00	.44	.00
10	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.04	.00	.00
12	.00	.43	.00	.02	.23	.00
13	.00	.00	.00	.04	.00	.00
14	.00	.00	.08	.00	.00	.00
15	.00	.00	.00	.16	.00	.01
16	.00	.10	.00	.04	.04	.01
17	.00	.79	.00	.00	.00	.00
18	.00	.04	.00	.00	.00	.00
19	.38	.00	.00	.00	.00	.00
20	.06	.00	.00	.00	.00	.03
21	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.04	.05	.00
23	.00	.00	.00	.00	.00	.19
24	.00	.09	.00	.00	.00	.02
25	.00	.01	.04	.00	.00	.00
26	.00	.00	.03	1.01	.00	.00
27	.00	.25	.00	.00	.00	.00
28	.00	.27	.01	.00	.00	.00
29	.00	.11	.00	.00	.02	.00
30	.00	.00	.00	.00	.00	.00
31	---	.16	---	.00	.05	---

<sup>1</sup>Mixed rain and snow.

Table 11.--Rainfall for April through September 1981, estimated using unofficial gages, at station 06713010 Cherry Knolls Storm Drain at Denver

[Rainfall, in inches]

1981						
Day	April	May	June	July	August	September
1	0.00	0.00	0.00	0.00	0.00	0.00
2	.00	.00	.17	.02	.00	.01
3	<sup>1</sup> .25	.65	.08	.00	.00	.02
4	.17	.52	.00	.00	.00	.00
5	.00	.01	.00	.00	.00	.00
6	.00	.03	.00	.00	.00	.05
7	.00	.00	.00	.34	.00	.12
8	.18	.00	.00	.00	.00	.00
9	.00	.03	.00	.00	.28	.00
10	.00	.00	.00	.00	.01	.00
11	.00	.00	.35	.04	.03	.00
12	.00	.24	.12	.62	.00	.00
13	.00	.06	.02	.05	.02	.02
14	.00	.00	.01	.00	.00	.01
15	.00	.00	.00	.04	.00	.02
16	.00	.02	.00	.00	.11	.01
17	.00	<sup>1</sup> 1.11	.00	.07	.00	.00
18	.00	.02	.01	.00	.00	.00
19	.00	.00	.00	.08	.00	.00
20	.22	.00	.00	.00	.00	.00
21	.01	.00	.00	.00	.00	.07
22	.00	.00	.00	.00	.02	.00
23	.00	.00	.00	.00	.00	.16
24	.00	.04	.00	.00	.00	.16
25	.00	.00	.01	.00	.00	.00
26	.00	.03	.02	.38	.00	.00
27	.00	.04	.00	.00	.00	.00
28	.00	.39	.01	.00	.00	.00
29	.00	.48	.19	.00	.02	.00
30	.00	.00	.00	.00	.00	.00
31	---	.07	---	.00	.02	---

<sup>1</sup>Mixed rain and snow.



Table 12.--*Rainfall for April through September 1981, estimated using unofficial gages, at station 06720420 Storm Drain at 116th Avenue and Claude Court, at Northglenn*

[Rainfall, in inches]

1981						
Day	April	May	June	July	August	September
1	0.00	0.00	0.00	0.00	0.00	0.00
2	.01	.01	.07	.00	.00	.00
3	<sup>1</sup> .29	.32	.93	.04	.00	.01
4	.08	.15	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.01	.04
7	.01	.00	.00	.37	.00	.04
8	.10	.00	.00	.00	.00	.00
9	.00	.03	.00	.00	.30	.00
10	.00	.00	.00	.00	.03	.00
11	.00	.00	.00	.16	.01	.00
12	.00	.31	.00	.10	.00	.00
13	.00	.05	.01	.00	.01	.00
14	.00	.00	.03	.00	.00	.00
15	.01	.01	.00	.00	.00	.00
16	.00	.27	.00	.00	.11	.00
17	.00	.92	.00	.00	.00	.00
18	.00	.01	.00	.00	.00	.02
19	.34	.00	.00	.00	.00	.00
20	.02	.00	.00	.00	.00	.00
21	.00	.01	.00	.00	.00	.00
22	.00	.00	.00	.00	.34	.00
23	.00	.00	.01	.00	.00	.43
24	.00	.02	.00	.00	.00	.05
25	.00	.09	.00	.07	.00	.00
26	.00	.00	.03	.63	.00	.00
27	.00	1.37	.04	.00	.00	.00
28	.00	.26	.00	.00	.10	.00
29	.00	.01	.00	.00	.10	.00
30	.00	.03	.00	.00	.05	.00
31	---	.01	---	.00	.06	---

<sup>1</sup>Mixed rain and snow.

Table 13.--Rainfall for April through September 1981, estimated using an unofficial gage, at station 394236105042400 Villa Italia Storm Drain at Lakewood

[Rainfall, in inches]

1981						
Day	April	May	June	July	August	September
1	0.00	0.00	0.00	0.00	0.00	0.00
2	.00	.00	.64	.08	.00	.01
3	.18	.35	1.04	.00	.00	.00
4	.00	.00	.00	.00	.00	.00
5	.00	.04	.00	.00	.00	.00
6	.00	.08	.00	.00	.00	.08
7	.00	.00	.00	.04	.00	.06
8	.12	.00	.00	.01	.00	.00
9	.00	<sup>1</sup> .21	.00	.00	.44	.00
10	.00	.00	.00	.00	.02	.00
11	.00	.00	.00	.04	.00	.00
12	.00	.35	.00	.15	.29	.00
13	.00	.01	.00	.05	.01	.00
14	.00	.00	.07	.00	.00	.00
15	.00	.00	.00	.00	.00	.02
16	.00	.31	.00	.00	.00	.00
17	.00	.79	.00	.00	.00	.00
18	.00	.03	.00	.00	.00	.00
19	.34	.00	.00	.13	.01	.00
20	.55	.00	.00	.00	.00	.03
21	.00	.00	.00	.00	.00	.01
22	.00	.00	.00	.04	.07	.00
23	.00	.00	.00	.00	.00	.21
24	.00	.04	.00	.00	.00	.00
25	.00	.00	.04	.00	.00	.00
26	.00	.00	.02	.91	.00	.00
27	.00	.24	.00	.00	.00	.00
28	.00	.73	.02	.00	.00	.00
29	.00	.26	.00	.00	.05	.00
30	.00	.00	.00	.00	.00	.00
31	---	.07	---	.00	.04	---

<sup>1</sup>Mixed rain and snow.



## SNOWMELT DATA FOR DENVER REGIONAL URBAN RUNOFF PROGRAM

Snowmelt data are presented for the following stations:

Station number and name		Table
06710225	Big Dry Creek tributary at Easter Street-----	14-19
06711585	Asbury Park Storm Drain-----	20
06711586	Asbury Park Storm Drain at Asbury Avenue-----	21-22
06711635	North Avenue Storm Drain at Denver Federal Center-----	23-28
06711637	North Avenue Storm Drain at Denver Federal Center North Avenue---	29-33
06713010	Cherry Knolls Storm Drain-----	34-35
06720420	Storm Drain at 116th Avenue and Claude Court-----	36-38
394236105042400	Villa Italia Storm Drain-----	39-43

A definition of the abbreviation used in the tables is:

ft<sup>3</sup>/s=cubic foot per second.

Table 14.--Snowmelt data, March 4,1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

-----		-----	
Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
-----		-----	
1305	5.1	1355	3.7
1310	6.6	1400	3.7
1315	6.8	1405	2.3
1320	6.1	1410	1.6
1325	5.7	1415	1.4
1330	5.4	1420	1.9
1335	5.6	1425	1.6
1340	6.4	1430	0.71
1345	6.4	1435	0.47
1350	4.1	1440	0.66

Table 15.--Snowmelt data, March 20-21, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1820	0.61	855	0.47
1825	1.1	900	0.38
1830	1.8	905	0.34
1835	2.0	910	0.30
1840	1.8	915	0.26
1845	1.4	955	0.61
1850	1.2	1000	0.66
1855	1.1	1005	0.61
1900	0.77	1010	0.61
1905	0.61	1015	0.61
1910	0.51	1020	0.88
1915	0.42	1025	1.4
1920	0.38	1030	1.8
1925	0.34	1035	1.9
1930	0.30	1040	1.7
1935	0.26	1045	1.4
1940	0.16	1050	1.4
1945	0.08	1055	1.1
2000	0.00	1100	0.93
2010	0.00	1105	0.77
2030	0.00	1110	0.71
2045	0.00	1115	0.66
2055	0.00	1120	0.61
2125	0.00	1125	0.61
2155	0.00	1130	0.61
2400	0.00	1135	0.56
740	0.00	1140	0.56
815	0.42	1145	0.56
820	0.51	1150	0.51
825	0.56	1200	0.56
830	0.61	1300	0.51
835	0.66	1330	0.34
840	0.66	1500	0.38
845	0.66	1630	0.23
850	0.56	1705	0.00

Table 16.--Snowmelt data, March 28, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
715	0.10	1500	0.42
725	0.16	1505	0.47
730	0.42	1510	0.56
735	0.51	1515	0.71
740	0.61	1520	0.71
745	0.71	1525	0.71
750	0.66	1530	0.77
755	0.66	1535	0.66
800	0.61	1540	0.56
805	0.34	1545	0.51
1330	0.42	1550	0.42
1335	0.51	1555	0.42
1340	0.66	1600	0.47
1345	0.56	1605	0.47
1350	0.61	1610	0.51
1355	0.56	1615	0.56
1400	0.51	1620	0.61
1405	0.61	1625	0.66
1410	0.56	1630	0.66
1415	0.56	1635	0.56
1420	0.61	1640	0.51
1425	0.61	1645	0.42
1430	0.47	1650	0.34
1435	0.47	1655	0.30
1440	0.42	1700	0.30
1445	0.38	1705	0.26
1450	0.42	1710	0.26
1455	0.38	1715	0.23

Table 17.--Snowmelt data, March 29, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
755	0.08	1135	0.66
805	0.10	1140	0.93
810	0.10	1145	0.93
820	0.19	1150	0.93
825	0.23	1155	0.93
830	0.26	1200	0.93
835	0.34	1205	0.88
840	0.38	1210	0.88
845	0.38	1215	0.88
850	0.38	1220	0.93
855	0.42	1225	0.88
900	0.56	1230	0.88
905	0.51	1235	0.82
910	0.56	1240	0.82
915	0.71	1245	0.82
920	0.88	1250	0.82
925	0.88	1255	0.82
930	0.82	1300	0.82
935	0.77	1305	0.82
940	0.82	1310	0.82
945	0.77	1315	0.82
950	0.71	1320	0.88
955	0.71	1325	0.88
1000	0.71	1330	0.88
1005	0.66	1335	0.88
1010	0.56	1340	0.88
1015	0.51	1345	0.88
1020	0.66	1350	0.88
1025	0.71	1355	0.93
1030	0.71	1400	0.93
1035	0.61	1405	0.93
1040	0.66	1410	0.93
1045	0.61	1415	0.93
1050	0.66	1420	0.93
1055	0.66	1425	0.93
1100	0.61	1430	0.93
1105	0.66	1435	0.93
1110	0.66	1440	0.93
1115	0.71	1445	0.93
1120	0.66	1450	0.93
1125	0.71	1455	0.93
1130	0.66	1500	0.93



Table 17.--Snowmelt data, March 29, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near  
Littleton--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1505	0.93	1650	0.71
1510	0.88	1655	0.66
1515	0.88	1700	0.61
1520	0.88	1705	0.51
1525	0.88	1710	0.47
1530	0.82	1715	0.42
1535	0.82	1720	0.38
1540	0.82	1725	0.38
1545	1.1	1730	0.34
1550	1.3	1735	0.26
1555	1.3	1740	0.30
1600	1.2	1745	0.30
1605	1.2	1750	0.30
1610	1.1	1755	0.26
1615	0.99	1800	0.26
1620	0.93	1805	0.26
1625	0.88	1810	0.23
1630	0.82	1815	0.23
1635	0.82	1820	0.23
1640	0.77	1840	0.00

Table 18.--Snowmelt data, April 5, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
715	0.16	1155	1.1
725	0.47	1200	0.93
730	0.66	1205	0.88
735	1.1	1210	0.82
740	1.3	1215	0.71
745	0.99	1220	0.66
750	0.61	1225	0.61
755	0.34	1230	0.56
800	0.26	1235	0.51
1010	0.56	1240	0.51
1015	0.71	1245	0.42
1020	1.4	1250	0.42
1025	2.3	1300	0.34
1030	2.3	1305	0.34
1035	3.2	1310	0.47
1040	3.4	1315	0.61
1045	3.3	1320	0.71
1050	2.9	1325	0.77
1055	2.6	1330	0.71
1100	2.3	1335	0.61
1105	1.9	1340	0.51
1110	1.6	1345	0.42
1115	1.4	1350	0.38
1120	1.3	1355	0.34
1125	1.3	1400	0.30
1130	1.3	1405	0.30
1135	1.2	1410	0.23
1140	1.2	1415	0.13
1145	1.2	1420	0.05
1150	1.1	1425	0.01

Table 19.--Snowmelt data, May 9, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
350	<sup>1</sup> 0.00	555	<sup>1</sup> 0.30
405	<sup>1</sup> 0.01	650	<sup>1</sup> 0.01
420	<sup>1</sup> 0.05	655	<sup>1</sup> 0.01
425	<sup>1</sup> 0.05	700	<sup>1</sup> 0.01
430	<sup>1</sup> 0.08	705	<sup>1</sup> 0.01
435	<sup>1</sup> 0.16	710	<sup>1</sup> 0.00
440	<sup>1</sup> 0.51	715	<sup>1</sup> 0.00
445	<sup>1</sup> 0.93	725	<sup>1</sup> 0.00
450	<sup>1</sup> 1.1	730	<sup>1</sup> 0.00
455	<sup>1</sup> 1.1	735	<sup>1</sup> 0.01
500	<sup>1</sup> 1.1	740	<sup>1</sup> 0.01
505	<sup>1</sup> 1.1	745	<sup>1</sup> 0.02
510	<sup>1</sup> 1.2	750	<sup>1</sup> 0.03
515	<sup>1</sup> 0.93	755	<sup>1</sup> 0.05
520	<sup>1</sup> 1.2	800	<sup>1</sup> 0.08
525	<sup>1</sup> 1.3	805	<sup>1</sup> 0.08
530	<sup>1</sup> 1.1	810	<sup>1</sup> 0.10
535	<sup>1</sup> 1.3	820	<sup>1</sup> 0.10
540	<sup>1</sup> 1.2	830	<sup>1</sup> 0.08
545	<sup>1</sup> 0.77	845	<sup>1</sup> 0.08

<sup>1</sup>Mixed rain and snow.

Table 20.--Snowmelt data, March 4,1981, for station  
06711585 Asbury Park Storm Drain at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1210	0.63	1420	2.0
1225	0.70	1425	1.6
1255	1.1	1430	1.8
1300	1.9	1435	1.5
1305	1.4	1440	1.4
1310	1.6	1445	1.2
1315	1.9	1450	1.1
1320	2.0	1455	1.1
1325	2.2	1500	1.0
1330	2.0	1505	0.84
1335	2.2	1510	0.88
1340	2.2	1515	0.81
1345	1.9	1520	0.81
1350	1.8	1525	0.77
1355	2.2	1530	0.77
1400	1.9	1535	0.77
1405	1.9	1540	0.74
1410	1.6	1545	0.77
1415	2.2	1550	0.70

Table 21.--Snowmelt data, March 4,1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1210	0.63	1420	2.0
1225	0.70	1425	1.6
1255	1.1	1430	1.8
1300	1.9	1435	1.5
1305	1.4	1440	1.4
1310	1.6	1445	1.2
1315	1.9	1450	1.1
1320	2.0	1455	1.1
1325	2.2	1500	1.0
1330	2.0	1505	0.84
1335	2.2	1510	0.88
1340	2.2	1515	0.81
1345	1.9	1520	0.81
1350	1.8	1525	0.77
1355	2.2	1530	0.77
1400	1.9	1535	0.77
1405	1.9	1540	0.74
1410	1.6	1545	0.77
1415	2.2	1550	0.70

Table 22.--Snowmelt data, March 21,1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
825	0.39	1030	1.8
830	0.49	1035	1.6
845	0.60	1040	0.88
900	0.74	1045	0.53
905	0.77	1100	0.53
910	0.81	1120	0.49
925	1.0	1200	0.49
930	1.4	1205	0.49
935	1.5	1215	0.49
940	1.4	1220	0.49
945	1.2	1230	0.46
950	1.0	1235	0.46
955	0.84	1240	0.46
1000	0.84	1250	0.42
1005	0.84	1300	0.42
1010	0.77	1315	0.32
1015	0.77	1330	0.25
1020	0.84	1345	0.25
1025	1.1	1525	0.11

Table 23.--Snowmelt data, February 21AM,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
100	0.12	310	0.36
105	0.16	315	0.36
110	0.21	320	0.34
115	0.27	325	0.32
120	0.32	330	0.32
125	0.38	335	0.29
130	0.42	340	0.27
135	0.49	345	0.25
140	0.51	350	0.27
145	0.51	355	0.24
150	0.49	400	0.21
155	0.44	405	0.19
200	0.44	410	0.19
205	0.44	415	0.18
210	0.46	420	0.17
215	0.44	425	0.16
220	0.44	430	0.16
225	0.42	435	0.14
230	0.42	440	0.13
235	0.44	445	0.12
240	0.40	450	0.12
245	0.38	455	0.11
250	0.38	500	0.10
255	0.36	505	0.09
300	0.38	510	0.09
305	0.38	515	0.08

Table 24.--Snowmelt data, February 21PM,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
955	0.14	1200	0.49
1000	0.19	1205	0.44
1005	0.27	1210	0.40
1010	0.27	1215	0.34
1015	0.40	1220	0.30
1020	0.40	1225	0.27
1025	0.42	1230	0.24
1030	0.44	1235	0.21
1035	0.51	1240	0.18
1040	0.46	1245	0.17
1045	0.56	1250	0.32
1050	0.56	1255	0.27
1055	0.59	1300	0.27
1100	0.54	1305	0.27
1105	0.51	1310	0.24
1110	0.51	1315	0.30
1115	0.51	1320	0.29
1120	0.54	1325	0.27
1125	0.54	1330	0.25
1130	0.54	1335	0.25
1135	0.56	1340	0.24
1140	0.59	1345	0.22
1145	0.59	1350	0.19
1150	0.56	1355	0.19
1155	0.51		



Table 25.--Snowmelt data, March 4, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
955	0.13	1325	1.6
1000	0.19	1330	1.4
1005	0.16	1335	1.4
1010	0.13	1340	1.4
1015	0.17	1345	1.5
1020	0.21	1350	1.4
1025	0.22	1355	1.4
1030	0.24	1400	1.4
1035	0.29	1405	1.3
1040	0.42	1410	1.2
1045	0.51	1415	1.2
1050	0.59	1420	1.2
1055	0.67	1425	1.3
1100	0.88	1430	1.2
1105	0.82	1435	1.2
1110	0.95	1440	1.2
1115	0.99	1445	1.1
1120	1.1	1450	1.2
1125	1.2	1455	1.2
1130	1.2	1500	1.1
1135	1.4	1505	1.1
1140	1.3	1510	1.1
1145	1.3	1515	1.1
1150	1.5	1520	0.99
1155	1.5	1525	0.95
1200	1.5	1530	0.88
1205	1.9	1535	0.88
1210	1.9	1540	0.82
1215	2.0	1545	0.82
1220	1.5	1550	1.2
1225	1.4	1555	1.0
1230	1.7	1600	0.85
1235	1.4	1605	0.76
1240	1.6	1610	0.73
1245	2.0	1615	0.76
1250	1.7	1620	0.82
1255	1.6	1625	0.82
1300	1.6	1630	0.82
1305	1.5	1635	0.82
1310	1.4	1640	0.79
1315	1.4	1645	0.76
1320	1.5	1650	0.73

Table 25.--Snowmelt data, March 4,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1655	0.70	1845	0.21
1700	0.67	1850	0.21
1705	0.64	1855	0.19
1710	0.61	1900	0.19
1715	0.59	1905	0.18
1720	0.56	1910	0.18
1725	0.54	1915	0.17
1730	0.49	1920	0.16
1735	0.46	1925	0.16
1740	0.44	1930	0.14
1745	0.40	1935	0.13
1750	0.40	1940	0.13
1755	0.36	1945	0.12
1800	0.36	1950	0.11
1805	0.34	1955	0.11
1810	0.32	2000	0.10
1815	0.30	2005	0.10
1820	0.29	2010	0.09
1825	0.27	2015	0.09
1830	0.25	2020	0.09
1835	0.24	2025	0.09
1840	0.22	2030	0.09

Table 26.--Snowmelt data, March 5, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
930	0.19	1300	0.56
935	0.25	1305	0.59
940	0.29	1310	0.59
945	0.29	1315	0.59
950	0.30	1320	0.61
955	0.30	1325	0.61
1000	0.30	1330	0.67
1005	0.32	1335	0.64
1010	0.32	1340	0.64
1015	0.34	1345	0.64
1020	0.34	1350	0.67
1025	0.34	1355	0.85
1030	0.42	1400	0.85
1035	0.38	1405	0.85
1040	0.30	1410	0.76
1045	0.25	1415	0.76
1050	0.27	1420	0.64
1055	0.25	1425	0.82
1100	0.25	1430	0.88
1105	0.27	1435	0.85
1110	0.29	1440	0.82
1115	0.27	1445	0.82
1120	0.25	1450	0.79
1125	0.29	1455	0.79
1130	0.29	1500	0.79
1135	0.30	1505	0.70
1140	0.34	1510	0.61
1145	0.34	1515	0.44
1150	0.34	1520	0.44
1155	0.34	1525	0.42
1200	0.34	1530	0.40
1205	0.38	1535	0.40
1210	0.40	1540	0.36
1215	0.42	1545	0.34
1220	0.44	1550	0.34
1225	0.44	1555	0.32
1230	0.49	1600	0.30
1235	0.51	1605	0.29
1240	0.54	1610	0.29
1245	0.51	1615	0.27
1250	0.51	1620	0.27
1255	0.54	1625	0.25

Table 26.--Snowmelt data, March 5, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1630	0.24	1725	0.13
1635	0.22	1730	0.12
1640	0.21	1735	0.12
1645	0.19	1740	0.11
1650	0.19	1745	0.11
1655	0.18	1750	0.10
1700	0.17	1755	0.09
1705	0.16	1800	0.09
1710	0.16	1805	0.09
1715	0.14	1810	0.08
1720	0.13	1815	0.08

Table 27.--Snowmelt data, March 21, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
840	0.01	1220	1.3
855	0.16	1225	1.2
900	0.38	1230	1.3
905	0.79	1235	1.4
910	0.79	1240	1.4
915	0.79	1245	1.3
920	0.79	1250	1.2
925	0.79	1255	1.2
930	0.79	1300	1.1
935	0.76	1305	0.99
940	0.76	1310	0.88
945	0.76	1315	0.82
950	0.76	1320	0.76
955	0.76	1325	0.73
1000	0.76	1330	0.70
1005	0.76	1335	0.64
1010	0.76	1340	0.61
1015	0.44	1345	0.59
1020	0.44	1350	0.56
1025	0.49	1355	0.54
1030	0.54	1400	0.54
1035	0.44	1405	0.51
1040	0.27	1410	0.51
1045	0.22	1415	0.51
1050	0.22	1420	0.49
1055	0.19	1425	0.49
1100	0.17	1430	0.49
1105	0.16	1435	0.46
1110	0.19	1440	0.44
1115	0.22	1445	0.42
1120	0.27	1450	0.42
1125	0.46	1455	0.34
1130	0.54	1500	0.34
1135	0.82	1505	0.27
1140	1.2	1510	0.32
1145	1.5	1515	0.40
1150	1.7	1520	0.34
1155	2.1	1525	0.34
1200	2.0	1530	0.34
1205	2.0	1535	0.34
1210	1.9	1540	0.36
1215	1.5	1545	0.38

Table 27.--Snowmelt data, March 21, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1550	0.38	1835	0.34
1555	0.40	1840	0.32
1600	0.42	1845	0.30
1605	0.40	1850	0.27
1610	0.38	1855	0.24
1615	0.36	1900	0.24
1620	0.36	1905	0.22
1625	0.32	1910	0.19
1630	0.38	1915	0.06
1635	0.32	1920	0.06
1640	0.32	1925	0.14
1645	0.32	1930	0.14
1650	0.34	1935	0.13
1655	0.36	1940	0.10
1700	0.42	1945	0.12
1705	0.44	1950	0.14
1710	0.42	1955	0.14
1715	0.42	2000	0.14
1720	0.40	2005	0.13
1725	0.38	2010	0.13
1730	0.36	2015	0.13
1735	0.34	2020	0.12
1740	0.32	2025	0.11
1745	0.34	2030	0.11
1750	0.32	2035	0.10
1755	0.32	2040	0.10
1800	0.34	2045	0.09
1805	0.36	2050	0.09
1810	0.36	2055	0.09
1815	0.36	2100	0.09
1820	0.36	2105	0.08
1825	0.36	2110	0.08
1830	0.34		

Table 28.--Snowmelt data, May 9, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
410	<sup>1</sup> 0.00	825	1.2
455	<sup>1</sup> 0.05	830	1.2
505	<sup>1</sup> 0.08	835	1.2
510	<sup>1</sup> 0.30	840	1.1
515	<sup>1</sup> 0.95	845	1.1
520	<sup>1</sup> 1.2	850	0.99
525	<sup>1</sup> 1.2	855	0.99
530	<sup>1</sup> 1.1	900	1.1
535	<sup>1</sup> 0.88	905	1.2
540	<sup>1</sup> 0.73	910	1.4
545	<sup>1</sup> 0.61	915	0.95
550	<sup>1</sup> 0.54	920	0.67
555	<sup>1</sup> 0.51	925	0.49
600	<sup>1</sup> 0.49	930	0.56
605	<sup>1</sup> 0.42	935	1.4
610	<sup>1</sup> 0.36	940	2.5
615	<sup>1</sup> 0.32	945	3.1
620	<sup>1</sup> 0.30	950	2.2
625	<sup>1</sup> 0.29	955	2.0
630	<sup>1</sup> 0.32	1000	1.5
635	<sup>1</sup> 0.36	1005	1.7
640	<sup>1</sup> 0.42	1010	2.2
645	<sup>1</sup> 0.46	1015	2.1
650	<sup>1</sup> 0.46	1020	1.9
655	<sup>1</sup> 0.42	1025	1.6
700	<sup>1</sup> 0.38	1030	1.4
705	<sup>1</sup> 0.34	1035	1.2
710	<sup>1</sup> 0.29	1040	1.2
715	<sup>1</sup> 0.25	1045	1.1
720	<sup>1</sup> 0.22	1050	1.1
725	<sup>1</sup> 0.19	1055	1.2
730	<sup>1</sup> 0.18	1100	1.4
735	<sup>1</sup> 0.17	1105	1.4
740	<sup>1</sup> 0.16	1110	1.2
745	<sup>1</sup> 0.16	1115	1.2
750	<sup>1</sup> 0.16	1120	1.1
755	<sup>1</sup> 0.16	1125	0.99
800	<sup>1</sup> 0.19	1130	0.85
805	<sup>1</sup> 0.30	1135	0.79
810	<sup>1</sup> 0.64	1140	0.73
815	<sup>1</sup> 1.1	1145	0.67
820	<sup>1</sup> 1.2	1150	0.59

<sup>1</sup>Mixed rain and snow.

Table 28.--Snowmelt data, May 9, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1155	<sup>1</sup> 0.56	1250	10.14
1200	<sup>1</sup> 0.51	1255	<sup>1</sup> 0.13
1205	<sup>1</sup> 0.46	1300	<sup>1</sup> 0.12
1210	<sup>1</sup> 0.40	1305	<sup>1</sup> 0.11
1215	<sup>1</sup> 0.32	1310	<sup>1</sup> 0.09
1220	<sup>1</sup> 0.29	1315	<sup>1</sup> 0.09
1225	<sup>1</sup> 0.24	1320	<sup>1</sup> 0.08
1230	<sup>1</sup> 0.22	1325	<sup>1</sup> 0.07
1235	<sup>1</sup> 0.19	1330	<sup>1</sup> 0.06
1240	<sup>1</sup> 0.18	1335	<sup>1</sup> 0.06
1245	<sup>1</sup> 0.16		

<sup>1</sup> Mixed rain and snow.



Table 29.--Snowmelt data, February 21,1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
100	0.12	310	0.36
105	0.16	315	0.36
110	0.21	320	0.34
115	0.27	325	0.32
120	0.32	330	0.32
125	0.38	335	0.29
130	0.42	340	0.27
135	0.49	345	0.25
140	0.51	350	0.27
145	0.51	355	0.24
150	0.49	400	0.21
155	0.44	405	0.19
200	0.44	410	0.19
205	0.44	415	0.18
210	0.46	420	0.17
215	0.44	425	0.16
220	0.44	430	0.16
225	0.42	435	0.14
230	0.42	440	0.13
235	0.44	445	0.12
240	0.40	450	0.12
245	0.38	455	0.11
250	0.38	500	0.10
255	0.36	505	0.09
300	0.38	510	0.09
305	0.38	515	0.08

Table 30.--Snowmelt data, March 4, 1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1115	0.04	1510	0.98
1120	0.26	1515	0.92
1125	0.29	1520	0.92
1130	0.32	1525	0.86
1200	1.2	1530	0.80
1225	1.7	1535	0.80
1230	1.7	1540	0.75
1235	1.8	1545	0.75
1240	1.5	1550	0.86
1245	1.5	1555	1.1
1250	1.6	1600	0.98
1255	1.6	1605	0.86
1300	1.6	1610	0.75
1305	1.6	1615	0.75
1310	1.5	1620	0.75
1315	1.5	1625	0.80
1320	1.5	1635	0.80
1325	1.5	1640	0.75
1330	1.5	1645	0.75
1335	1.6	1650	0.75
1340	1.4	1655	0.70
1345	1.3	1700	0.70
1350	1.3	1705	0.65
1355	1.3	1710	0.60
1400	1.2	1715	0.60
1405	1.2	1720	0.55
1410	1.1	1725	0.51
1415	1.1	1730	0.51
1420	1.1	1735	0.47
1425	1.1	1740	0.47
1430	1.1	1745	0.43
1435	1.0	1750	0.43
1440	1.0	1755	0.39
1445	1.0	1800	0.35
1450	1.0	1805	0.35
1455	0.98	1810	0.32
1500	0.98	1815	0.32
1505	0.98	1820	0.29

Table 30.--Snowmelt data, March 4, 1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1825	0.29	1900	0.19
1830	0.26	1905	0.19
1835	0.26	1910	0.19
1840	0.23	1915	0.19
1845	0.20	1920	0.18
1850	0.20	1925	0.18
1855	0.20	2400	0.08

Table 31.--Snowmelt data, March 5, 1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
940	0.29	1310	0.75
945	0.32	1315	0.75
950	0.35	1320	0.75
955	0.35	1325	0.70
1000	0.39	1330	0.70
1005	0.35	1335	0.80
1010	0.35	1340	0.80
1015	0.29	1345	0.80
1020	0.29	1350	0.80
1025	0.29	1355	0.80
1030	0.29	1400	0.80
1035	0.32	1405	0.80
1040	0.35	1410	0.75
1045	0.35	1415	0.75
1050	0.32	1420	0.75
1055	0.35	1425	0.75
1100	0.35	1430	0.70
1105	0.35	1435	0.70
1110	0.35	1440	0.70
1115	0.39	1445	0.70
1120	0.39	1450	0.65
1125	0.39	1455	0.65
1130	0.39	1500	0.65
1135	0.39	1505	0.60
1140	0.43	1510	0.60
1145	0.43	1515	0.60
1150	0.47	1520	0.60
1155	0.47	1525	0.55
1200	0.47	1530	0.55
1205	0.51	1535	0.51
1210	0.51	1540	0.51
1215	0.55	1545	0.51
1220	0.55	1550	0.47
1225	0.60	1555	0.47
1230	0.60	1600	0.47
1235	0.65	1605	0.43
1240	0.70	1610	0.43
1245	0.70	1615	0.43
1250	0.70	1620	0.43
1255	0.70	1625	0.43
1300	0.70	1630	0.39
1305	0.75	1635	0.35

Table 31.--Snowmelt data, March 5,1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1640	0.35	1730	0.23
1645	0.35	1735	0.23
1650	0.32	1740	0.23
1655	0.32	1745	0.20
1700	0.32	1750	0.20
1705	0.29	1755	0.20
1710	0.29	1800	0.19
1715	0.29	1805	0.18
1720	0.26	1810	0.18
1725	0.26	1815	0.18

Table 32.--Snowmelt data, March 21, 1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
910	0.55	1240	1.2
915	0.70	1245	1.1
920	0.75	1250	1.1
925	0.86	1255	1.1
930	0.86	1300	1.0
935	0.92	1305	0.92
940	0.86	1310	0.86
945	0.86	1315	0.80
950	0.86	1320	0.75
955	0.86	1325	0.70
1000	0.75	1330	0.65
1005	0.65	1335	0.60
1010	0.55	1340	0.60
1015	0.51	1345	0.55
1020	0.51	1350	0.55
1025	0.51	1355	0.51
1030	0.55	1400	0.51
1035	0.60	1405	0.47
1040	0.51	1410	0.47
1045	0.39	1415	0.47
1050	0.32	1420	0.47
1055	0.29	1425	0.47
1100	0.23	1430	0.47
1105	0.23	1435	0.43
1110	0.20	1440	0.43
1115	0.19	1445	0.39
1120	0.18	1450	0.39
1125	0.20	1455	0.39
1130	0.35	1500	0.35
1135	0.51	1505	0.32
1140	0.86	1510	0.29
1145	1.2	1515	0.32
1150	1.4	1520	0.32
1155	1.5	1525	0.32
1200	1.7	1530	0.32
1205	1.7	1535	0.32
1210	1.6	1540	0.32
1215	1.4	1545	0.32
1220	1.2	1550	0.32
1225	1.1	1555	0.35
1230	1.1	1600	0.35
1235	1.2	1605	0.35

Table 32.--Snowmelt data, March 21,1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1610	0.32	1750	0.26
1615	0.32	1755	0.23
1620	0.32	1800	0.26
1625	0.29	1805	0.26
1630	0.29	1810	0.26
1635	0.26	1815	0.29
1640	0.26	1820	0.29
1645	0.26	1825	0.29
1650	0.26	1830	0.29
1655	0.26	1835	0.29
1700	0.29	1840	0.26
1705	0.32	1845	0.26
1710	0.32	1850	0.23
1715	0.32	1855	0.23
1720	0.32	1900	0.20
1725	0.32	1905	0.19
1730	0.29	1910	0.19
1735	0.29	1915	0.19
1740	0.26	1920	0.18
1745	0.26		

Table 33.--Snowmelt data, March 28, 1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
655	0.75	1250	1.5
700	1.3	1255	1.4
705	1.3	1300	1.4
710	1.2	1305	1.3
715	1.1	1310	1.2
720	0.92	1315	1.2
725	0.80	1320	1.1
730	0.70	1325	1.4
735	0.55	1330	1.3
740	0.39	1335	1.2
745	0.20	1340	1.2
1015	0.26	1345	1.1
1020	0.47	1350	1.1
1025	0.55	1355	1.1
1030	0.60	1400	1.1
1035	0.70	1405	1.1
1040	0.65	1410	0.98
1045	0.60	1415	0.80
1050	0.43	1420	0.60
1055	0.39	1425	0.51
1100	0.32	1430	0.47
1105	0.32	1435	0.43
1110	0.32	1440	0.47
1115	0.32	1445	0.51
1120	0.35	1450	0.60
1125	0.32	1455	0.60
1130	0.32	1500	0.70
1135	0.29	1505	0.70
1140	0.39	1510	0.70
1145	0.51	1515	0.70
1150	0.55	1520	0.75
1155	0.51	1525	0.80
1200	0.47	1530	0.80
1205	0.39	1535	0.86
1210	0.43	1540	0.86
1215	0.65	1545	0.80
1220	1.1	1550	0.86
1225	1.4	1555	0.92
1230	1.6	1600	1.0
1235	1.6	1605	1.0
1240	1.6	1610	1.0
1245	1.6	1615	0.98



Table 33.--Snowmelt data, March 28,1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1620	0.98	1900	0.92
1625	1.1	1905	0.92
1630	1.0	1910	0.86
1635	0.98	1915	0.86
1640	0.98	1920	0.98
1645	0.92	1925	0.92
1650	0.92	1930	0.92
1655	0.92	1935	0.92
1700	0.98	1940	0.86
1705	0.98	1945	0.86
1710	0.98	1950	0.86
1715	0.92	1955	0.86
1720	0.86	2000	0.80
1725	0.80	2005	0.75
1730	0.80	2010	0.70
1735	0.80	2015	0.65
1740	0.86	2020	0.60
1745	0.80	2025	0.60
1750	0.86	2030	0.51
1755	0.92	2035	0.43
1800	0.92	2040	0.39
1805	0.86	2045	0.35
1810	0.86	2050	0.35
1815	0.86	2055	0.32
1820	0.86	2100	0.32
1825	0.86	2105	0.32
1830	0.80	2110	0.35
1835	0.92	2115	0.39
1840	0.92	2120	0.39
1845	0.98	2125	0.35
1850	0.98	2130	0.32
1855	0.92		

Table 34.--Snowmelt data, March 29, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
845	0.01	1235	0.05
855	0.02	1240	0.06
900	0.02	1245	0.06
910	0.03	1250	0.06
915	0.03	1255	0.06
925	0.03	1300	0.06
930	0.04	1305	0.06
935	0.04	1310	0.06
940	0.04	1315	0.06
945	0.04	1320	0.06
955	0.04	1325	0.06
1000	0.04	1330	0.07
1005	0.04	1335	0.07
1010	0.04	1340	0.07
1015	0.04	1345	0.07
1020	0.04	1350	0.07
1025	0.04	1355	0.07
1030	0.04	1400	0.06
1035	0.04	1405	0.07
1040	0.04	1410	0.07
1045	0.04	1415	0.07
1050	0.04	1420	0.07
1055	0.04	1425	0.07
1100	0.04	1430	0.06
1105	0.04	1435	0.07
1115	0.04	1440	0.06
1120	0.04	1450	0.06
1125	0.04	1455	0.06
1130	0.04	1500	0.06
1135	0.04	1505	0.06
1145	0.04	1510	0.06
1150	0.05	1515	0.05
1155	0.05	1520	0.05
1200	0.05	1525	0.05
1205	0.05	1530	0.05
1210	0.05	1535	0.05
1215	0.05	1540	0.04
1220	0.05	1545	0.04
1225	0.05	1555	0.04
1230	0.06	1600	0.05

Table 35.--Snowmelt data, April 3, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
655	0.01	1000	0.11
700	0.01	1005	0.11
705	0.01	1010	0.11
710	0.06	1015	0.07
715	0.19	1020	0.07
720	0.27	1025	0.06
725	0.23	1030	0.06
730	0.19	1035	0.06
735	0.15	1040	0.06
740	0.06	1045	0.06
800	0.02	1050	0.05
905	0.05	1055	0.05
910	0.15	1100	0.05
915	0.19	1105	0.04
920	0.27	1110	0.04
925	0.27	1115	0.03
930	0.31	1120	0.03
935	0.31	1130	0.04
940	0.27	1135	0.04
945	0.23	1145	0.04
950	0.19	1150	0.04
955	0.15		

Table 36.--Snowmelt data, March 4, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
735	1.4	1105	1.1
740	1.6	1110	1.1
745	1.7	1115	1.2
750	1.8	1120	1.3
755	1.8	1125	1.4
800	1.8	1130	1.5
805	1.8	1135	1.5
810	1.7	1140	1.4
815	1.6	1145	1.3
820	1.6	1150	1.1
825	1.5	1435	1.4
830	1.5	1440	1.8
835	1.4	1445	2.3
840	1.4	1450	2.3
845	1.4	1455	2.8
850	1.3	1500	2.7
855	1.3	1505	2.7
900	1.3	1510	3.6
905	1.3	1515	3.1
910	1.3	1520	3.3
915	1.3	1525	3.9
920	1.2	1530	4.1
925	1.2	1535	4.7
930	1.2	1540	4.7
935	1.1	1545	4.7
940	1.1	1550	4.4
945	1.1	1555	4.4
950	1.1	1600	3.9
955	1.1	1605	3.8
1000	1.1	1610	3.6
1005	1.1	1615	3.6
1010	1.1	1620	3.5
1015	1.1	1625	3.5
1020	1.1	1630	3.3
1025	1.1	1635	3.3
1030	1.1	1640	3.1
1035	1.1	1645	3.1
1040	1.1	1650	2.8
1045	1.1	1655	2.5
1050	1.1	1700	2.8
1055	1.1	1705	2.5
1100	1.1	1710	2.3

Table 36.--Snowmelt data, March 4,1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1715	2.3	1745	1.2
1720	2.1	1750	1.2
1725	1.8	1755	1.1
1730	1.7	1800	1.1
1735	1.6	1805	1.1
1740	1.4		

Table 37.--Snowmelt data, March 21, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
755	0.00	1230	2.4
805	0.00	1235	2.2
840	0.00	1240	2.2
845	1.7	1245	2.1
850	2.0	1250	2.0
855	2.2	1255	1.9
900	2.4	1300	1.8
905	2.4	1305	1.8
910	2.2	1310	1.8
915	1.9	1315	1.8
920	1.7	1320	1.8
925	1.5	1325	1.8
930	1.3	1330	1.8
935	1.1	1335	1.8
1020	2.4	1340	1.8
1025	3.5	1345	1.7
1030	4.9	1350	1.8
1035	5.3	1355	1.8
1040	5.8	1400	1.8
1045	6.4	1405	1.7
1050	6.6	1410	1.6
1055	6.6	1415	1.6
1100	6.1	1420	1.6
1105	5.6	1425	1.5
1110	5.0	1430	1.5
1115	4.7	1435	1.5
1120	4.6	1440	1.4
1125	4.3	1445	1.4
1130	4.1	1450	1.4
1135	4.1	1455	1.3
1140	3.9	1500	1.3
1145	3.7	1505	1.2
1150	3.3	1510	1.2
1155	3.1	1515	1.1
1200	2.9	1520	0.97
1205	2.7	1525	0.97
1210	2.6	1540	0.46
1215	2.5	1605	0.19
1220	2.4	1650	0.15
1225	2.2		

Table 38.--Snowmelt data, April 3, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
905	2.1	945	0.89
910	7.1	950	0.56
915	6.1	955	0.42
920	4.7	1000	0.36
925	3.3	1005	0.30
930	2.1	1010	0.24
935	1.6	1015	0.36
940	1.1	1020	0.30

Table 39.--Snowmelt data, March 21,1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
815	0.00	1125	2.8
830	0.27	1130	2.5
845	1.0	1135	3.2
850	1.3	1140	2.4
855	1.6	1145	3.6
900	1.8	1150	2.6
905	2.0	1155	2.9
910	2.4	1200	2.4
915	2.7	1205	2.3
920	3.0	1210	1.9
925	3.3	1215	1.9
930	3.1	1220	1.7
935	3.2	1225	1.8
940	3.2	1230	1.6
945	3.2	1235	1.6
950	3.2	1240	1.6
955	3.2	1245	1.6
1000	2.6	1250	1.6
1005	2.4	1255	1.6
1010	2.1	1300	1.6
1015	2.1	1305	1.6
1020	3.1	1310	1.4
1025	2.9	1315	1.5
1030	3.2	1320	1.3
1035	2.7	1325	1.3
1040	2.5	1330	1.2
1045	3.0	1335	1.2
1050	2.6	1340	1.1
1055	2.6	1345	1.0
1100	2.6	1350	1.0
1105	2.6	1355	0.97
1110	2.6	1400	0.90
1115	2.7	1405	0.87
1120	2.9	1410	0.82



Table 40.--Snowmelt data, March 24, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1535	0.01	1645	2.1
1540	0.02	1650	1.9
1550	0.85	1655	1.7
1555	1.5	1700	1.5
1600	2.4	1705	1.4
1605	3.0	1710	1.2
1610	3.2	1715	1.1
1615	3.1	1720	1.00
1620	3.0	1725	0.87
1625	3.0	1730	0.81
1630	2.8	1735	0.71
1635	2.6	1740	0.66
1640	2.4	1745	0.63

Table 41.--Snowmelt data, March 28, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
645	0.45	1155	7.6
700	1.2	1200	5.9
705	1.7	1205	6.5
710	1.8	1210	7.0
715	1.7	1215	8.2
720	1.6	1220	12
725	1.6	1225	12
730	1.8	1230	9.4
735	2.3	1235	7.9
740	2.9	1240	6.8
745	2.6	1245	6.6
750	2.1	1250	5.7
755	1.7	1255	5.6
800	2.2	1300	4.6
805	2.1	1305	4.5
810	3.1	1310	4.6
815	2.2	1315	3.3
820	2.6	1320	3.2
825	2.1	1325	3.6
830	2.4	1330	3.3
835	0.89	1335	3.1
840	1.6	1340	2.8
845	1.3	1345	3.5
850	0.51	1350	3.8
1025	0.96	1355	2.5
1030	1.0	1400	2.6
1035	0.80	1405	3.0
1040	0.71	1410	2.5
1045	0.66	1415	3.1
1050	0.72	1420	1.6
1055	1.0	1425	1.2
1100	0.96	1430	1.1
1105	1.1	1435	2.5
1110	1.3	1440	2.9
1115	1.9	1445	1.7
1120	2.1	1450	1.1
1125	2.2	1455	0.57
1130	2.3	1500	1.7
1135	5.2	1505	3.4
1140	7.5	1510	2.4
1145	6.5	1515	3.3
1150	6.9	1520	1.7

Table 41.--Snowmelt data, March 28, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1525	2.6	1810	0.84
1530	2.1	1815	0.57
1535	1.8	1820	0.36
1540	2.1	1825	0.80
1545	2.0	1830	0.79
1550	1.3	1835	1.4
1555	1.6	1840	2.0
1600	1.5	1845	2.2
1605	2.1	1850	1.7
1610	1.3	1855	1.5
1615	1.7	1900	1.2
1620	1.7	1905	1.4
1625	1.5	1910	1.2
1630	1.1	1915	1.1
1635	1.4	1920	1.1
1640	1.8	1925	1.2
1645	2.4	1930	0.97
1650	2.9	1935	0.90
1655	2.0	1940	1.1
1700	1.5	1945	1.1
1705	1.0	1950	0.95
1710	1.1	1955	0.81
1715	1.5	2000	0.82
1720	1.6	2005	0.88
1725	1.5	2010	0.82
1730	0.82	2015	0.56
1735	1.9	2035	0.74
1740	1.7	2040	0.93
1745	1.6	2050	0.96
1750	1.2	2250	1.1
1755	1.3	2320	1.7
1800	0.80	2400	0.79
1805	1.1		

Table 42.--Snowmelt data, March 29,1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1150	0.83	1400	3.4
1205	0.95	1405	3.0
1210	1.00	1410	2.6
1215	1.2	1415	2.0
1220	1.3	1420	2.2
1225	1.4	1425	1.6
1230	1.5	1430	2.1
1235	1.6	1435	1.9
1240	1.8	1440	1.9
1245	1.8	1445	1.5
1250	2.2	1450	1.4
1255	2.3	1455	1.6
1300	2.5	1500	1.1
1305	2.8	1505	1.2
1310	2.9	1510	1.7
1315	2.7	1515	1.1
1320	2.9	1520	0.95
1325	3.7	1525	0.91
1330	3.4	1530	0.75
1335	4.0	1535	0.72
1340	3.3	1540	0.74
1345	3.1	1545	0.67
1350	3.4	1550	0.64
1355	2.8		

Table 43.--Snowmelt data, May 9, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
405	<sup>1</sup> 1.3	755	<sup>1</sup> 1.8
430	<sup>1</sup> 1.5	800	<sup>1</sup> 1.8
435	<sup>1</sup> 1.6	805	<sup>1</sup> 1.8
440	<sup>1</sup> 1.6	810	<sup>1</sup> 2.0
445	<sup>1</sup> 1.9	815	<sup>1</sup> 2.6
450	<sup>1</sup> 2.1	820	<sup>1</sup> 3.4
455	<sup>1</sup> 2.5	825	<sup>1</sup> 4.5
500	<sup>1</sup> 3.1	830	<sup>1</sup> 5.4
505	<sup>1</sup> 4.0	835	<sup>1</sup> 7.0
510	<sup>1</sup> 6.3	840	<sup>1</sup> 7.6
515	<sup>1</sup> 5.7	845	<sup>1</sup> 7.7
520	<sup>1</sup> 10.0	850	<sup>1</sup> 6.2
525	<sup>1</sup> 8.0	855	<sup>1</sup> 7.0
530	<sup>1</sup> 6.1	900	<sup>1</sup> 7.0
535	<sup>1</sup> 4.7	905	<sup>1</sup> 7.5
540	<sup>1</sup> 4.2	910	<sup>1</sup> 8.3
545	<sup>1</sup> 3.7	915	<sup>1</sup> 6.7
550	<sup>1</sup> 3.1	920	<sup>1</sup> 7.2
555	<sup>1</sup> 2.9	925	<sup>1</sup> 6.5
600	<sup>1</sup> 2.6	930	<sup>1</sup> 5.7
605	<sup>1</sup> 2.4	935	<sup>1</sup> 4.8
610	<sup>1</sup> 2.5	940	<sup>1</sup> 4.3
615	<sup>1</sup> 2.4	945	<sup>1</sup> 3.9
620	<sup>1</sup> 2.5	950	<sup>1</sup> 3.7
625	<sup>1</sup> 2.4	955	<sup>1</sup> 3.5
630	<sup>1</sup> 2.4	1000	<sup>1</sup> 3.5
635	<sup>1</sup> 2.4	1005	<sup>1</sup> 3.1
640	<sup>1</sup> 2.4	1010	<sup>1</sup> 3.2
645	<sup>1</sup> 2.4	1015	<sup>1</sup> 3.3
650	<sup>1</sup> 2.4	1020	<sup>1</sup> 3.4
655	<sup>1</sup> 2.3	1025	<sup>1</sup> 3.2
700	<sup>1</sup> 2.3	1030	<sup>1</sup> 3.2
705	<sup>1</sup> 2.2	1035	<sup>1</sup> 3.2
710	<sup>1</sup> 2.2	1040	<sup>1</sup> 3.9
715	<sup>1</sup> 2.2	1045	<sup>1</sup> 4.8
720	<sup>1</sup> 2.1	1050	<sup>1</sup> 5.1
725	<sup>1</sup> 1.9	1055	<sup>1</sup> 4.8
730	<sup>1</sup> 1.8	1100	<sup>1</sup> 4.0
735	<sup>1</sup> 1.9	1105	<sup>1</sup> 3.8
740	<sup>1</sup> 1.8	1110	<sup>1</sup> 3.6
745	<sup>1</sup> 1.8	1115	<sup>1</sup> 3.2
750	<sup>1</sup> 1.8	1120	<sup>1</sup> 3.1

Table 43.--Snowmelt data, May 9, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1125	<sup>1</sup> 2.9	1220	<sup>1</sup> 2.2
1130	<sup>1</sup> 2.7	1225	<sup>1</sup> 2.2
1135	<sup>1</sup> 2.6	1230	<sup>1</sup> 2.2
1140	<sup>1</sup> 2.5	1235	<sup>1</sup> 1.9
1145	<sup>1</sup> 2.5	1240	<sup>1</sup> 2.1
1150	<sup>1</sup> 2.4	1245	<sup>1</sup> 2.1
1155	<sup>1</sup> 2.3	1250	<sup>1</sup> 2.0
1200	<sup>1</sup> 2.2	1255	<sup>1</sup> 2.0
1205	<sup>1</sup> 2.2	1300	<sup>1</sup> 1.9
1210	<sup>1</sup> 2.2	1305	<sup>1</sup> 1.8
1215	<sup>1</sup> 2.2		

<sup>1</sup> Mixed rain and snow.

# RAINFALL-RUNOFF DATA FOR DENVER REGIONAL URBAN RUNOFF PROGRAM

Corrected rainfall-runoff data for April 23-24, 1980, for station 06710610 Rooney Gulch at Rooney Ranch from U.S. Geological Survey Open-File Report 81-682, pages 27 and 28, are presented in table 44. Rainfall-runoff data are presented for the following stations:

Station number and name	Table
06710225 Big Dry Creek tributary at Easter Street-----	45-58
06710610 Rooney Gulch at Rooney Ranch-----	59-61
06711585 Asbury Park Storm Drain-----	62-63
06711586 Asbury Park Storm Drain at Asbury Avenue-----	64-76
06711635 North Avenue Storm Drain at Denver Federal Center-----	77-98
06711637 North Avenue Storm Drain at Denver Federal Center North Avenue--	99-109
06713010 Cherry Knolls Storm Drain-----	110-123
06720420 Storm Drain at 116th Avenue and Claude Court-----	124-138
394236105042400 Villa Italia Storm Drain-----	139-158

Table 44.--Corrected rainfall-runoff data, April 23-24, 1980, for station  
06710610 Rooney Gulch at Rooney Ranch, near Morrison

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 15 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1615	0.00	Not working	Not working	0.01
1630	0.00			0.01
1645	0.00			0.00
1700	0.01			0.02
1715	0.01			0.01
1730	0.02			0.01
1745	0.02			0.03
1800	0.03			0.03
1815	0.03			0.04
1830	0.03			0.03
1845	0.03			0.04
1900	0.04			0.03
1915	0.04			0.04
1930	0.04			0.01
1945	0.04			0.02
2000	0.04			0.02
2015	0.04			0.01
2030	0.04			0.02
2045	0.04			0.02
2100	0.04			0.03
2115	0.04			0.04
2130	0.04			0.06
2145	0.04			0.03
2200	0.06			0.01
2215	0.06			0.02
2230	0.06			0.00
2245	0.06			0.00
2300	0.06			0.01
2315	0.06			0.02
2330	0.07			0.02
2345	0.09			0.02
2400	0.10			0.01
15	0.09			0.01
30	0.09			0.01
45	0.09			0.01
100	0.09			0.03
115	0.09			0.01
130	0.09			0.03
145	0.09			0.02
200	0.09			0.03



Table 44.--Corrected rainfall-runoff data, April 23-24,1980, for station  
06710610 Rooney Gulch at Rooney Ranch, near Morrison--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
215	0.09	Not working	Not working	0.04
230	0.10			0.04
245	0.12			0.04
300	0.14			0.06
315	0.16			0.03
330	0.22			0.06
345	0.27			0.07
400	0.37			0.06
415	0.46			0.05
430	0.57			0.04
445	0.64			0.04
500	0.74			0.04
515	0.83			0.04
530	0.94			0.05
545	0.99			0.04
600	1.3			0.08
615	1.5			0.08
630	1.8			0.07
645	2.0			0.02
700	2.2			0.00
715	2.4			0.00
730	2.2			0.00
745	1.8			0.00
800	0.99			0.00
815	0.74			0.00
830	0.57			0.00
845	0.51			0.00
900	0.38			0.00
915	0.26			0.00
930	0.19			0.00
945	0.12			0.00
1000	0.07			0.00
1015	0.03			0.00
1030	0.00			0.00

Table 45.--Rainfall-runoff data, April 19AM,1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
810	0.00	0.00	0.01
815	0.00	0.01	0.00
820	0.00	0.01	0.01
825	0.00	0.01	0.01
830	0.03	0.01	0.01
835	0.34	0.01	0.01
840	0.66	0.00	0.00
845	0.66	0.00	0.00
850	0.51	0.00	0.00
855	0.38	0.00	0.00
900	0.26	0.00	0.00
940	0.00	0.00	0.01

Table 46.--Rainfall-runoff data, April 19PM,1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1620	0.00	0.01	0.00
1630	0.00	0.00	0.01
1635	0.00	0.01	0.01
1640	0.00	0.00	0.01
1645	0.19	0.01	0.00
1700	0.23	0.00	0.01
1705	0.26	0.02	0.02
1710	0.88	0.02	0.02
1715	1.5	0.01	0.01
1720	1.4	0.00	0.00
1725	1.1	0.00	0.00
1730	0.71	0.00	0.01
1735	0.51	0.01	0.00
1740	0.42	0.00	0.00
1745	0.30	0.00	0.00
1750	0.26	0.00	0.00
1815	0.08	0.01	0.01
1825	0.10	0.00	0.01
1830	0.19	0.01	0.00
1835	0.26	0.01	0.01
1905	0.16	0.01	0.01
1910	0.16	0.00	0.01
2250	0.00	0.01	0.00
2320	0.00	0.00	0.01
2350	0.00	0.01	0.01

Table 47.--Rainfall-runoff data, May 3AM,1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
245	0.00	0.00	0.01
300	0.00	0.01	0.00
315	0.00	0.00	0.01
335	0.03	0.01	0.01
340	0.05	0.02	0.02
345	0.42	0.01	0.01
350	0.82	0.01	0.00
355	0.82	0.00	0.00
400	0.61	0.00	0.01
405	0.42	0.01	0.00
410	0.34	0.00	0.01
415	0.42	0.02	0.03
420	0.99	0.02	0.02
425	1.9	0.03	0.03
430	2.3	0.02	0.02
435	2.4	0.02	0.02
440	2.0	0.01	0.01
445	1.9	0.02	0.01
450	1.5	0.00	0.00
455	0.99	0.00	0.00
500	0.66	0.00	0.01
505	0.38	0.00	0.00
510	0.23	0.00	0.00

Table 48.--Rainfall-runoff data, May 3PM,1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1315	0.00	0.01	0.00
1320	0.00	0.04	0.09
1325	5.0	0.15	0.10
1330	E16	0.16	0.11
1335	13	0.07	0.06
1340	7.5	0.00	0.00
1345	3.2	0.00	0.00
1350	1.6	0.00	0.00
1355	0.77	0.00	0.00
1400	0.47	0.00	0.00
1405	0.26	0.00	0.00

Table 49.--Rainfall-runoff data, May 12-13, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
2000	0.00	0.00	0.01
2005	0.00	0.01	0.01
2020	0.13	0.01	0.01
2030	0.19	0.01	0.01
2035	0.30	0.01	0.01
2040	0.56	0.00	0.01
2045	0.77	0.02	0.02
2050	1.7	0.02	0.02
2055	2.2	0.01	0.02
2100	2.1	0.00	0.00
2105	1.6	0.01	0.01
2110	0.99	0.00	0.00
2115	0.71	0.00	0.00
2120	0.51	0.01	0.01
2125	0.42	0.00	0.00
2130	0.38	0.01	0.00
2135	0.38	0.00	0.01
2140	0.38	0.01	0.01
2145	0.42	0.01	0.01
2150	0.56	0.01	0.01
2155	0.82	0.00	0.00
2200	0.88	0.01	0.01
2205	0.77	0.00	0.00
2210	0.66	0.01	0.01
2215	0.56	0.00	0.00
2220	0.56	0.00	0.01
2225	0.51	0.01	0.00
2230	0.47	0.00	0.00
2235	0.42	0.00	0.01
2240	0.38	0.01	0.00
2245	0.34	0.00	0.01
2250	0.38	0.02	0.01
2255	0.66	0.01	0.00
2300	0.82	0.01	0.01
2305	0.88	0.00	0.01
2310	0.88	0.01	0.00
2315	0.71	0.00	0.00
2320	0.61	0.00	0.00
2325	0.51	0.00	0.01
2330	0.42	0.01	0.00

Table 49.--Rainfall-runoff data, May 12-13, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near  
Littleton--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
2335	0.34	0.00	0.00
2340	0.26	0.00	0.00
2345	0.23	0.00	0.00
2355	0.19	0.01	0.01
2400	0.23	0.00	0.00
15	0.26	0.00	0.01
20	0.26	0.01	0.00
50	0.13	0.00	0.01

Table 50.--Rainfall-runoff data, May 16, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
545	0.00	0.00	0.00
550	0.00	0.00	0.01
555	0.00	0.01	0.00
600	0.00	0.00	0.01
605	0.30	0.01	0.01
610	0.61	0.01	0.02
615	1.1	0.00	0.01
620	1.3	0.01	0.01
625	1.4	0.01	0.01
630	1.4	0.01	0.01
635	1.2	0.00	0.00
640	0.88	0.01	0.01
645	0.66	0.00	0.00
650	0.51	0.00	0.00
655	0.38	0.00	0.00
700	0.30	0.00	0.00
705	0.26	0.00	0.00
710	0.19	0.01	0.00
715	0.16	0.00	0.01
750	0.05	0.00	0.01
800	0.08	0.01	0.00



Table 51.--Rainfall-runoff data, May 17-18, 1981, for station 06710225 Big Dry Creek tributary at Easter Street, near Littleton

(Rainfall is reported in amounts measured during specified time increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
505	0.00	0.01	0.01
525	0.01	0.01	0.01
535	0.03	0.01	0.00
540	0.08	0.00	0.01
550	0.10	0.01	0.00
555	0.13	0.01	0.02
600	0.34	0.01	0.01
605	0.66	0.02	0.01
610	1.2	0.01	0.02
615	1.6	0.01	0.01
620	1.7	0.01	0.02
625	1.6	0.01	0.01
630	1.4	0.01	0.01
635	1.3	0.01	0.00
640	1.2	0.01	0.02
645	1.2	0.02	0.01
650	1.4	0.01	0.02
655	1.7	0.02	0.01
700	1.8	0.01	0.01
705	1.6	0.01	0.02
710	1.4	0.01	0.01
715	1.4	0.01	0.01
720	1.4	0.01	0.01
725	1.4	0.00	0.00
730	1.1	0.01	0.01
735	0.88	0.00	0.00
740	0.66	0.00	0.01
745	0.56	0.00	0.00
750	0.42	0.01	0.00
800	0.34	0.00	0.01
805	0.34	0.01	0.00
810	0.34	0.01	0.01
815	0.42	0.00	0.01
820	0.56	0.01	0.01
825	0.71	0.01	0.01
830	0.82	0.01	0.00
835	0.93	0.01	0.02
840	1.2	0.02	0.01
845	1.5	0.01	0.01
850	1.5	0.00	0.01

Table 51.--Rainfall-runoff data, May 17-18, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near  
Littleton--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
855	1.2	0.01	0.00
900	1.1	0.01	0.01
910	0.61	0.00	0.00
915	0.61	0.00	0.01
920	0.66	0.01	0.00
925	0.66	0.00	0.01
935	0.61	0.01	0.00
940	0.56	0.00	0.00
945	0.51	0.00	0.01
950	0.42	0.01	0.00
955	0.38	0.00	0.00
1000	0.30	0.00	0.00
1005	0.26	0.00	0.00
1010	0.23	0.01	0.00
1045	0.03	0.00	0.01
1055	0.03	0.01	0.00
1100	0.03	0.00	0.01
1110	0.10	0.01	0.01
1115	0.19	0.00	0.00
1125	0.30	0.00	0.01
1130	0.34	0.01	0.00
1220	0.03	0.00	0.01
1410	0.00	0.01	0.01
1415	0.00	0.01	0.00
1420	0.00	0.01	0.02
1425	0.30	0.00	0.00
1430	0.82	0.02	0.02
1435	1.7	0.02	0.02
1440	2.3	0.01	0.02
1445	2.5	0.02	0.02
1450	2.5	0.01	0.01
1455	2.3	0.01	0.01
1500	2.0	0.01	0.01
1505	1.7	0.01	0.01
1510	1.4	0.01	0.01
1515	1.4	0.01	0.01
1520	1.4	0.01	0.01
1525	1.4	0.01	0.01
1530	1.4	0.00	0.01
1535	1.3	0.01	0.00

Table 51.--Rainfall-runoff data, May 17-18, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near  
Littleton--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1540	1.1	0.00	0.01
1545	0.93	0.01	0.00
1550	0.93	0.01	0.01
1555	0.99	0.01	0.01
1600	1.1	0.00	0.01
1605	1.1	0.01	0.01
1610	1.1	0.01	0.01
1615	1.4	0.02	0.02
1620	1.9	0.01	0.01
1625	2.1	0.01	0.02
1630	2.1	0.01	0.01
1635	1.9	0.01	0.01
1640	1.8	0.01	0.01
1645	1.6	0.01	0.01
1650	1.6	0.01	0.01
1655	1.6	0.00	0.01
1700	1.5	0.01	0.01
1705	1.4	0.01	0.01
1710	1.4	0.01	0.01
1715	1.4	0.01	0.01
1720	1.4	0.00	0.00
1725	1.4	0.01	0.01
1730	1.2	0.00	0.01
1735	1.1	0.01	0.01
1740	1.2	0.01	0.01
1745	1.2	0.00	0.00
1750	1.2	0.01	0.01
1755	1.1	0.01	0.01
1800	1.1	0.00	0.00
1805	0.93	0.00	0.00
1810	0.82	0.01	0.01
1815	0.71	0.00	0.00
1820	0.66	0.01	0.01
1830	0.66	0.00	0.01
1835	0.61	0.01	0.00
1845	0.61	0.01	0.01
1850	0.56	0.00	0.00
1855	0.56	0.00	0.01
1905	0.51	0.01	0.00
1910	0.42	0.00	0.00

Table 51.--Rainfall-runoff data, May 17-18,1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near  
Littleton--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1915	0.38	0.00	0.01
1920	0.34	0.00	0.00
1930	0.30	0.01	0.00
1940	0.26	0.00	0.01
1945	0.23	0.00	0.00
2000	0.19	0.01	0.00
2010	0.16	0.00	0.01
2035	0.10	0.01	0.01
2105	0.13	0.01	0.01
2130	0.08	0.00	0.01
2135	0.10	0.01	0.00
2150	0.16	0.00	0.01
2200	0.16	0.01	0.00
2220	0.16	0.00	0.01
2225	0.16	0.01	0.00
2240	0.16	0.00	0.01
2255	0.13	0.01	0.00
2310	0.13	0.00	0.01
2335	0.08	0.01	0.00
2345	0.08	0.00	0.01
2355	0.08	0.01	0.00
2400	0.08	0.00	0.00
10	0.10	0.00	0.01
50	0.03	0.01	0.00
105	0.03	0.00	0.01
125	0.03	0.01	0.00
135	0.05	0.00	0.01
210	0.05	0.01	0.00
240	0.02	0.00	0.01

Table 52.--Rainfall-runoff data, May 28,1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
140	0.00	0.01	0.01
205	0.02	0.01	0.01
210	0.02	0.00	0.01
215	0.03	0.02	0.01
225	0.51	0.00	0.01
235	0.34	0.01	0.00
240	0.26	0.02	0.01
245	0.71	0.03	0.03
250	2.1	0.03	0.05
255	3.4	0.01	0.03
300	3.4	0.02	0.02
305	2.8	0.01	0.02
310	2.5	0.01	0.01
315	2.0	0.01	0.01
320	1.6	0.01	0.01
325	1.4	0.02	0.01
330	1.4	0.00	0.01
335	1.1	0.00	0.00
350	0.34	0.01	0.00

Table 53.--Rainfall-runoff data, May 28-29, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
2255	0.00	0.01	0.01
2320	0.00	0.00	0.01
2325	0.00	0.01	0.00
2400	0.00	0.00	0.00
105	0.00	0.00	0.02
110	0.00	0.02	0.02
115	0.99	0.01	0.02
120	1.4	0.02	0.01
125	1.6	0.00	0.01
130	1.4	0.01	0.01
135	1.1	0.01	0.00
140	0.82	0.00	0.00
150	0.34	0.01	0.02
225	0.08	0.01	0.01
230	0.10	0.02	0.03
235	0.93	0.02	0.02
240	2.3	0.02	0.02
245	2.8	0.02	0.02
250	2.7	0.02	0.02
255	2.3	0.01	0.01
300	1.9	0.02	0.02
305	2.6	0.03	0.03
310	3.3	0.04	0.05
315	5.2	0.04	0.03
320	4.4	0.02	0.01
325	3.3	0.02	0.03
330	3.0	0.03	0.03
335	3.3	0.02	0.01
340	3.1	0.01	0.01
345	2.4	0.01	0.01
350	1.8	0.01	0.01
355	1.6	0.01	0.02
400	1.6	0.02	0.01
405	1.9	0.01	0.01
410	1.7	0.00	0.01
415	1.4	0.01	0.00
420	0.82	0.00	0.00
425	0.56	0.00	0.00
430	0.42	0.00	0.01
655	0.00	0.01	0.00

Table 54.--Rainfall-runoff data, June 11-12, 1981, for station 06710225 Big Dry Creek tributary at Easter Street, near Littleton

(Rainfall is reported in amounts measured during specified time increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
2320	0.00	0.00	0.02
2325	0.00	0.07	0.09
2330	5.3	0.04	0.04
2335	5.0	0.01	0.01
2340	3.0	0.00	0.00
2345	1.7	0.00	0.00
2350	0.99	0.00	0.00
2355	0.61	0.00	0.00
2400	0.38	0.00	0.00
10	0.16	0.14	0.12
15	15	0.17	0.17
20	E 17	0.03	0.01
25	E 26	0.02	0.03
30	E 23	0.08	0.13
35	14	0.08	0.02
40	7.8	0.01	0.01
45	4.2	0.00	0.00
50	9.0	0.00	0.00
55	13	0.01	0.01
100	1.1	0.00	0.00
105	0.82	0.01	0.00
110	0.71	0.00	0.00
115	0.61	0.00	0.01
120	0.99	0.04	0.03
125	1.7	0.00	0.00
130	1.5	0.00	0.00
135	1.1	0.00	0.00
140	0.77	0.01	0.01
145	0.61	0.00	0.00
150	0.47	0.00	0.00
155	0.38	0.00	0.00

E=Estimated.

Table 55.--Rainfall-runoff data, June 29,1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1635	0.00	0.01	0.01
1640	0.00	0.02	0.04
1645	11	0.15	0.18
1650	--	0.22	0.20
1655	--	0.25	0.15
1700	--	0.03	0.07
1705	E56	0.02	0.08
1710	E40	0.03	0.05
1715	E28	0.01	0.04
1720	E19	0.01	0.02
1725	13	0.00	0.00
1730	9.3	0.00	0.00
1735	6.4	0.00	0.00
1740	4.8	0.00	0.00
1745	3.6	0.00	0.01
1750	2.9	0.00	0.00
1755	2.3	0.01	0.00
1800	1.9	0.00	0.00
1805	1.7	0.00	0.00
1810	1.4	0.00	0.00
1815	1.3	0.00	0.01
1820	1.3	0.00	0.00
1825	1.3	0.01	0.00
1830	1.4	0.00	0.01
1835	1.4	0.00	0.00
1840	1.3	0.00	0.00
1845	1.2	0.00	0.00
1850	0.99	0.00	0.00
1855	0.82	0.00	0.00
1900	0.71	0.00	0.00
1905	0.66	0.00	0.00
1910	0.56	0.00	0.00

E=Estimated.



Table 56.--Rainfall-runoff data, July 17, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1725	0.00	0.01	0.01
1730	0.00	0.18	0.11
1735	E18	0.18	0.24
1740	E25	0.07	0.10
1745	10	0.01	0.02
1750	4.7	0.02	0.04
1755	3.9	0.02	0.02
1800	3.7	0.02	0.02
1805	3.0	0.02	0.03
1810	2.8	0.01	0.01
1815	2.2	0.01	0.00
1820	1.6	0.00	0.00
1825	1.1	0.00	0.00
1850	0.13	0.00	0.00

E=Estimated.

Table 57.--Rainfall-runoff data, July 26, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1950	0.00	0.00	0.04
1955	0.00	0.03	0.02
2000	2.2	0.06	0.05
2005	2.6	0.05	0.06
2010	3.4	0.05	0.05
2015	4.4	0.05	0.04
2020	5.9	0.01	0.02
2025	4.4	0.01	0.01
2030	2.2	0.01	0.01
2035	2.2	0.01	0.01
2040	2.4	0.01	0.02
2045	2.4	0.02	0.02
2050	1.8	0.01	0.01
2055	1.4	0.01	0.01
2100	1.1	0.00	0.00
2105	0.82	0.00	0.00
2125	0.38	0.00	0.01
2145	0.10	0.01	0.00
2205	0.05	0.00	0.01
2210	0.08	0.01	0.01
2215	0.16	0.01	0.01
2220	0.38	0.00	0.02
2225	0.99	0.00	0.01
2230	1.2	0.01	0.00
2245	0.82	0.00	0.01
2315	0.08	0.01	0.00
2320	0.08	0.07	0.07
2325	2.2	0.04	0.05
2330	5.6	0.04	0.04
2335	2.6	0.02	0.02
2340	1.8	0.01	0.02
2345	1.1	0.01	0.00
2350	0.56	0.00	0.01
2355	0.34	0.00	0.00
2400	0.16	0.00	0.00

Table 58.--Rainfall-runoff data, August 13,1981, for station 06710225 Big Dry Creek tributary at Easter Street, near Littleton

(Rainfall is reported in amounts measured during specified time increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1955	0.14	Not working	Not working
2003	0.23		
2030	0.30		
2100	0.25		

Table 59.--Rainfall-runoff data, May 17-18, 1981, for station  
06710610 Rooney Gulch at Rooney Ranch, near Morrison

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 15 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
515	0.00	0.01	0.01	0.01
530	0.00	0.03	0.02	0.03
545	0.00	0.03	0.05	0.05
600	0.01	0.04	0.03	0.05
615	0.01	0.02	0.03	0.03
630	0.02	0.02	0.01	0.04
645	0.02	0.02	0.03	0.05
700	0.03	0.03	0.02	0.05
715	0.04	0.02	0.02	0.04
730	0.06	0.02	0.02	0.03
745	0.07	0.02	0.02	0.03
800	0.16	0.02	0.02	0.03
815	0.20	0.02	0.01	0.02
830	0.22	0.01	0.01	0.01
845	0.22	0.00	0.01	0.01
900	0.22	0.01	0.00	0.01
915	0.22	0.00	0.01	0.02
930	0.22	0.02	0.01	0.01
945	0.20	0.00	0.01	0.01
1000	0.22	0.01	0.00	0.01
1015	0.20	0.01	0.01	0.01
1030	0.16	0.00	0.00	0.01
1045	0.14	0.01	0.02	0.02
1100	0.12	0.01	0.01	0.01
1115	0.12	0.01	0.00	0.00
1130	0.09	0.00	0.00	0.01
1145	0.09	0.00	0.00	0.01
1200	0.09	0.01	0.01	0.01
1215	0.09	0.01	0.01	0.02
1230	0.07	0.00	0.00	0.00
1245	0.07	0.01	0.00	0.01
1300	0.07	0.00	0.00	0.01
1315	0.07	0.00	0.01	0.00
1415	0.07	0.01	0.00	0.01
1430	0.07	0.00	0.00	0.01
1445	0.07	0.01	0.01	0.02

Table 59.--Rainfall-runoff data, May 17-18,1981, for station  
06710610 Rooney Gulch at Rooney Ranch, near Morrison--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1500	0.09	0.02	0.02	0.03
1515	0.09	0.02	0.01	0.02
1530	0.07	0.00	0.00	0.00
1545	0.07	0.01	0.02	0.02
1600	0.07	0.02	0.01	0.01
1615	0.07	0.01	0.01	0.03
1630	0.09	0.02	0.01	0.05
1645	0.09	0.01	0.01	0.03
1700	0.10	0.02	0.02	0.04
1715	0.12	0.01	0.01	0.03
1730	0.18	0.02	0.02	0.02
1745	0.18	0.00	0.00	0.00
1800	0.20	0.01	0.01	0.02
1815	0.25	0.01	0.01	0.01
1830	0.25	0.01	0.00	0.02
1845	0.25	0.01	0.01	0.01
1900	0.25	0.00	0.00	0.01
1915	0.25	0.01	0.01	0.02
1930	0.22	0.00	0.00	0.00
1945	0.22	0.00	0.00	0.01
2000	0.20	0.01	0.01	0.01
2015	0.18	0.00	0.01	0.01
2030	0.16	0.00	0.00	0.01
2045	0.14	0.01	0.00	0.01
2100	0.14	0.00	0.01	0.01
2115	0.12	0.01	0.00	0.01
2130	0.12	0.00	0.01	0.00
2145	0.09	0.01	0.00	0.01
2215	0.09	0.00	0.01	0.01
2230	0.09	0.01	0.00	0.01
2245	0.09	0.00	0.01	0.01
2315	0.09	0.00	0.00	0.01
2330	0.09	0.00	0.00	0.01
2345	0.09	0.01	0.00	0.00
2400	0.09	0.00	0.01	0.01
15	0.09	0.01	0.00	0.01

Table 59.--Rainfall-runoff data, May 17-18,1981, for station  
06710610 Rooney Gulch at Rooney Ranch, near Morrison--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
30	0.09	0.01	0.01	0.01
45	0.07	0.00	0.01	0.02
100	0.07	0.01	0.00	0.01
115	0.07	0.00	0.01	0.01
130	0.07	0.01	0.00	0.01
145	0.07	0.00	0.01	0.01
200	0.07	0.01	0.00	0.02
215	0.07	0.00	0.01	0.01
230	0.07	0.00	0.00	0.01
245	0.07	0.01	0.00	0.00
300	0.07	0.00	0.01	0.01
345	0.07	0.00	0.00	0.01

Table 60.--Rainfall-runoff data, June 2-3,1981, for station  
06710610 Rooney Gulch at Rooney Ranch, near Morrison

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 15 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
2000	0.00	0.00	0.01	0.00
2015	0.00	0.01	0.00	0.00
2230	0.00	0.00	0.01	0.00
2245	0.00	0.01	0.00	0.00
2300	0.00	0.01	0.01	0.02
2315	0.00	0.02	0.10	0.15
2330	0.00	0.11	0.07	0.05
2345	0.00	0.07	0.03	0.07
2400	0.00	0.04	0.01	0.03
15	0.00	0.01	0.00	0.01
130	0.18	0.01	0.00	0.00
145	0.16	0.00	0.01	0.01
200	0.12	0.01	0.00	0.00
215	0.09	0.00	0.00	0.01
230	0.06	0.01	0.00	0.00
300	0.00	0.00	0.01	0.00

Table 61.--Rainfall-runoff data, June 3,1981, for station  
06710610 Rooney Gulch at Rooney Ranch, near Morrison

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 15 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1045	0.00	0.00	0.01	0.00
1300	0.00	0.00	0.00	0.01
1415	0.00	0.02	0.02	0.00
1430	0.00	0.26	0.16	0.24
1445	0.04	0.13	0.16	0.15
1500	0.10	0.02	0.02	0.02
1515	0.18	0.00	0.00	0.01
1530	0.37	0.00	0.00	0.00
1545	0.55	0.00	0.00	0.01
1600	0.95	0.00	0.00	0.00
1615	0.95	0.00	0.00	0.00
1630	0.67	0.00	0.00	0.00
1645	0.46	0.00	0.00	0.00
1700	0.32	0.00	0.01	0.00
1715	0.22	0.00	0.00	0.00
1730	0.16	0.00	0.00	0.00
1745	0.12	0.00	0.00	0.00
1800	0.09	0.00	0.00	0.00
1815	0.06	0.00	0.00	0.00
1830	0.04	0.00	0.00	0.00
1845	0.03	0.00	0.00	0.00
1900	0.03	0.00	0.00	0.00
1915	0.02	0.00	0.00	0.00
1930	0.02	0.00	0.00	0.00
1945	0.02	0.00	0.00	0.00
2245	0.00	0.00	0.01	0.01
2300	0.00	0.00	0.00	0.00
2315	0.00	0.00	0.01	0.01



Table 62.--Rainfall-runoff data, April 19-20,1981, for station  
06711585 Asbury Park Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1630	0.15	0.01	1820	1.0	0.01
1640	0.23	0.01	2220	0.00	0.01
1715	0.54	0.01	2255	0.08	0.01
1720	0.54	0.01	2315	0.08	0.01
1730	1.5	0.01	2400	0.00	0.00
1735	2.3	0.01	455	0.46	0.01

Table 63.--Rainfall-runoff data, May 3, 1981, for station  
06711585 Asbury Park Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1315	2.0	0.04	2055	2.7	0.03
1320	2.0	0.02	2100	5.5	0.02
1325	2.0	0.03	2105	7.9	0.06
1330	2.4	0.08	2110	9.5	0.00
1335	27	0.04	2115	9.1	0.03
1340	18	0.00	2120	7.6	0.02
1345	11	0.00	2125	5.2	0.01
1350	8.7	0.00	2130	8.7	0.01
1355	7.6	0.00	2135	8.5	0.00
1400	6.6	0.00	2140	7.5	0.00
1405	4.6	0.00	2145	6.5	0.00
1430	3.1	0.00	2150	5.6	0.00
1620	2.4	0.00	2225	2.4	0.00
1625	2.4	0.01	2235	2.6	0.00
1630	2.4	0.00	2240	2.6	0.00
2045	2.1	0.01	2245	2.6	0.01

Table 64.--Rainfall-runoff data, March 3, 1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1020	0.28	0.00	0.01
1025	0.28	0.01	0.00
1045	0.25	0.00	0.01
1105	0.42	0.01	0.00
1115	0.49	0.00	0.01
1125	0.53	0.01	0.00
1135	0.74	0.00	0.01
1150	0.84	0.01	0.00
1155	0.84	0.00	0.01
1215	0.81	0.01	0.01
1225	0.88	0.00	0.00
1230	0.88	0.01	0.00
1235	0.88	0.00	0.01
1240	0.88	0.00	0.00
1245	0.84	0.00	0.00
1250	0.81	0.00	0.00
1255	0.77	0.00	0.00
1300	0.77	0.00	0.00
1305	0.74	0.00	0.00
1310	0.74	0.00	0.00
1315	0.70	0.00	0.00
1320	0.70	0.00	0.00
1330	0.63	0.01	0.01
1410	0.46	0.00	0.01
1415	0.46	0.01	0.00
1425	0.63	0.00	0.01
1440	0.70	0.01	0.00
1455	0.70	0.00	0.01
1635	0.39	0.00	0.01
1750	0.35	0.01	0.00
1900	0.32	0.00	0.01
1910	0.42	0.01	0.00

Table 65.--Rainfall-runoff data, March 20, 1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1735	0.00	0.00	0.01
1740	0.04	0.02	0.01
1745	0.04	0.02	0.02
1750	0.11	0.02	0.01
1755	1.4	0.02	0.02
1800	1.6	0.01	0.01
1805	4.5	0.01	0.01
1810	10	0.02	0.01
1815	13	0.01	0.01
1820	10	0.01	0.01
1825	6.2	0.00	0.00
1830	3.3	0.00	0.00
1835	1.1	0.00	0.00
1840	0.70	0.01	0.00

Table 66.--Rainfall-runoff data, April 19-20, 1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1620	0.53	0.00	0.01
1625	0.56	0.01	0.00
1635	0.63	0.01	0.01
1710	0.70	0.01	0.01
1715	0.70	0.00	0.03
1720	0.70	0.01	0.02
1725	0.81	0.01	0.01
1735	2.2	0.01	0.01
1750	0.81	0.00	0.01
1755	0.77	0.01	0.00
1810	0.74	0.00	0.01
1850	0.39	0.01	0.00
2205	0.32	0.00	0.01
2235	0.28	0.01	0.00
2245	0.28	0.00	0.01
2255	0.32	0.00	0.01
2305	0.46	0.01	0.00
2315	0.60	0.00	0.01
2400	0.39	0.00	0.00
20	0.32	0.01	0.00

Table 67.--Rainfall-runoff data, May 3AM,1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
230	0.00	0.01	0.01
240	0.00	0.01	0.01
245	0.00	0.01	0.02
250	0.39	0.01	0.02
255	0.70	0.01	0.01
300	0.84	0.01	0.01
305	0.81	0.01	0.00
310	0.67	0.00	0.01
335	0.46	0.00	0.01
410	0.21	0.01	0.01
415	0.18	0.01	0.02
420	0.28	0.02	0.02
425	0.60	0.01	0.01
430	0.77	0.01	0.01
440	0.67	0.00	0.01

Table 68.--Rainfall-runoff data, May 3PM,1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1315	0.00	0.04	0.00
1320	0.04	0.02	0.07
1325	0.00	0.03	0.12
1330	15	0.08	0.16
1335	48	0.04	0.02
1340	36	0.00	0.00
1344	17	0.00	0.00
1345	14	0.00	0.00
1350	3.7	0.00	0.00
1420	0.49	0.00	0.00
1620	0.18	0.00	0.02
1625	0.07	0.01	0.01
1630	0.11	0.00	0.01
2045	0.00	0.01	0.01
2050	0.00	0.02	0.00
2055	0.32	0.03	0.00
2100	0.46	0.02	0.01
2105	0.84	0.06	0.02
2110	13	0.00	0.00
2115	5.1	0.03	0.04
2120	0.88	0.02	0.00
2125	1.2	0.01	0.02
2130	1.2	0.01	0.00
2135	1.0	0.00	0.00
2225	0.11	0.00	0.01
2240	0.00	0.00	0.01
2245	0.04	0.01	0.00

Table 69.--Rainfall-runoff data, May 16,1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
940	0.28	0.00	0.01
945	0.32	0.01	0.00
955	0.28	0.00	0.01
1215	0.42	0.01	0.02
1220	0.39	0.02	0.01
1225	1.2	0.01	0.01
1230	2.4	0.02	0.02
1235	1.8	0.00	0.01
1240	1.5	0.01	0.01
1245	1.4	0.01	0.00
1250	1.1	0.00	0.01
1255	1.0	0.01	0.00
1300	0.88	0.02	0.01
1305	1.0	0.01	0.01
1310	1.4	0.01	0.02
1315	1.4	0.01	0.02
1320	1.4	0.00	0.00
1325	1.2	0.01	0.00
1330	1.0	0.01	0.01
1335	1.0	0.00	0.01
1340	1.0	0.01	0.01
1345	0.88	0.01	0.01
1350	0.84	0.00	0.01
1355	0.84	0.01	0.00
1400	0.84	0.00	0.01
1405	0.81	0.01	0.01
1415	0.81	0.01	0.01
1435	0.77	0.01	0.01
1515	0.60	0.00	0.01
1700	0.70	0.01	0.01
1710	0.63	0.01	0.01



Table 70.--Rainfall-runoff data, May 17-18,1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
415	0.28	0.00	0.01
435	0.28	0.01	0.00
440	0.28	0.00	0.01
445	0.28	0.01	0.00
450	0.28	0.01	0.01
455	0.53	0.00	0.01
505	0.67	0.01	0.02
515	0.67	0.01	0.00
530	0.67	0.01	0.01
535	0.67	0.01	0.00
540	0.67	0.00	0.01
545	0.67	0.01	0.00
550	0.70	0.00	0.01
555	0.70	0.01	0.00
600	0.77	0.01	0.01
605	0.81	0.00	0.01
610	0.81	0.01	0.01
615	0.84	0.01	0.00
620	0.81	0.00	0.01
625	0.81	0.01	0.01
630	0.81	0.01	0.01
635	1.0	0.01	0.01
640	1.2	0.01	0.01
645	1.2	0.01	0.01
650	1.2	0.01	0.01
655	1.2	0.01	0.01
700	1.2	0.00	0.00
705	1.2	0.01	0.01
710	1.0	0.00	0.00
715	0.84	0.00	0.00
720	0.84	0.00	0.00
725	0.81	0.00	0.00
730	0.77	0.00	0.01
735	0.74	0.00	0.00
740	0.70	0.01	0.00
745	0.70	0.00	0.00
750	0.67	0.00	0.01
755	0.67	0.01	0.00
800	0.70	0.00	0.01
805	0.70	0.01	0.01

Table 70.--Rainfall-runoff data, May 17-18, 1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at  
Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
810	0.74	0.01	0.00
815	0.81	0.00	0.01
820	0.84	0.01	0.01
825	0.84	0.01	0.01
830	0.84	0.00	0.00
835	0.84	0.00	0.00
840	0.81	0.00	0.00
845	0.77	0.00	0.00
850	0.74	0.00	0.01
855	0.70	0.00	0.00
910	0.63	0.01	0.00
935	0.63	0.00	0.01
1050	0.42	0.01	0.00
1055	0.39	0.00	0.01
1120	0.56	0.01	0.00
1150	0.46	0.00	0.01
1300	0.42	0.00	0.00
1405	0.32	0.01	0.01
1410	0.32	0.01	0.01
1415	0.63	0.02	0.01
1420	0.84	0.01	0.02
1425	1.8	0.02	0.01
1430	2.4	0.01	0.01
1435	3.0	0.02	0.02
1440	3.0	0.01	0.02
1445	2.8	0.01	0.01
1450	2.6	0.01	0.02
1455	2.2	0.00	0.00
1500	1.2	0.01	0.00
1505	1.0	0.00	0.00
1510	0.81	0.00	0.00
1515	0.77	0.01	0.00
1520	0.74	0.01	0.00
1525	0.74	0.00	0.01
1530	0.74	0.00	0.00
1535	0.74	0.00	0.00
1540	0.74	0.01	0.01
1545	0.70	0.00	0.00
1600	0.67	0.01	0.01
1605	0.67	0.00	0.01

Table 70.--Rainfall-runoff data, May 17-18, 1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at  
Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1610	0.70	0.01	0.00
1615	0.74	0.01	0.01
1620	0.74	0.00	0.01
1625	0.77	0.01	0.00
1630	0.81	0.01	0.01
1635	0.81	0.01	0.01
1640	0.88	0.00	0.00
1645	0.84	0.01	0.01
1650	0.84	0.00	0.01
1655	0.84	0.01	0.01
1700	0.88	0.01	0.01
1705	0.88	0.00	0.01
1710	0.88	0.01	0.01
1715	0.88	0.01	0.00
1720	0.88	0.00	0.00
1725	0.84	0.00	0.01
1730	0.81	0.00	0.00
1735	0.77	0.01	0.01
1740	0.77	0.00	0.00
1745	0.74	0.00	0.00
1750	0.74	0.00	0.00
1755	0.70	0.01	0.01
1800	0.70	0.00	0.00
1805	0.70	0.00	0.00
1815	0.67	0.00	0.01
1825	0.67	0.01	0.00
1855	0.63	0.00	0.02
2005	0.35	0.00	0.00
2120	0.32	0.00	0.01
2155	0.42	0.01	0.00
2200	0.42	0.00	0.01
2235	0.49	0.00	0.01
2330	0.35	0.01	0.01
2335	0.35	0.00	0.00
2400	0.46	0.00	0.01
55	0.35	0.00	0.01

Table 71.--Rainfall-runoff data, May 27-28,1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
2150	0.56	0.01	0.01
2155	0.53	0.01	0.02
2200	0.49	0.02	0.04
2205	1.0	0.08	0.14
2210	41	0.04	0.03
2215	30	0.03	0.03
2220	11	0.01	0.00
2225	7.1	0.00	0.00
2230	1.5	0.00	0.00
2235	1.0	0.00	0.00
2240	0.84	0.00	0.00
2400	0.49	0.00	0.00
145	0.46	0.01	0.01
150	0.46	0.00	0.00
155	0.46	0.01	0.00
200	0.74	0.01	0.00
210	0.70	0.01	0.00
235	0.60	0.00	0.01
245	0.53	0.01	0.01
250	0.63	0.01	0.01
255	0.74	0.00	0.02
300	0.84	0.01	0.01
310	0.88	0.00	0.01

Table 72.--Rainfall-runoff data, May 28,1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1400	0.00	0.00	0.02
1405	1.4	0.00	0.00
1410	26	0.12	0.03
1415	60	0.06	0.04
1425	27	0.00	0.00
1455	0.63	0.00	0.00
1500	0.00	0.00	0.01
1505	0.00	0.02	0.02

Table 73.--Rainfall-runoff data, May 28-29,1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
2140	0.49	0.00	0.01
2150	0.46	0.00	0.01
2155	0.46	0.02	0.01
2200	0.70	0.00	0.01
2205	0.88	0.01	0.01
2210	1.4	0.01	0.00
2215	1.5	0.01	0.01
2230	0.84	0.01	0.00
2250	0.70	0.01	0.01
2400	0.46	0.00	0.00
120	0.46	0.02	0.01
125	0.46	0.03	0.00
130	0.84	0.01	0.00
140	0.81	0.01	0.01
145	0.74	0.02	0.01
150	0.84	0.02	0.01
155	1.2	0.02	0.02
200	2.4	0.02	0.01
205	2.4	0.02	0.02
210	2.0	0.01	0.02
215	2.4	0.02	0.02
220	2.8	0.01	0.02
225	2.6	0.01	0.01
230	3.3	0.01	0.02
235	3.7	0.01	0.00
240	3.3	0.01	0.00
245	2.0	0.00	0.01
250	1.1	0.01	0.01
255	1.2	0.01	0.00
300	1.4	0.01	0.01
305	1.4	0.01	0.01
310	1.5	0.01	0.00
315	1.4	0.00	0.01
320	1.4	0.01	0.00
325	1.2	0.02	0.03
330	1.4	0.02	0.01
335	2.2	0.01	0.01
340	2.8	0.01	0.02
345	2.4	0.01	0.00
350	1.9	0.01	0.01

Table 73.--Rainfall-runoff data, May 28-29, 1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at  
Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
355	1.8	0.01	0.01
400	1.5	0.01	0.00
405	1.5	0.01	0.01
410	1.5	0.00	0.01
420	1.4	0.01	0.01
440	0.77	0.00	0.00
540	0.49	0.00	0.00

Table 74.--Rainfall-runoff data, June 28,1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1355	0.32	0.03	0.22
1400	3.7	0.09	0.01
1405	33	0.01	0.00
1410	5.9	0.00	0.00
1415	0.84	0.00	0.00
1735	0.32	0.00	0.01
1745	0.32	0.01	0.02
1750	0.32	0.01	0.01
1835	0.32	0.00	0.01



Table 75.--Rainfall-runoff data, July 7-8, 1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1650	0.32	0.02	0.00
1655	0.35	0.02	0.01
1700	0.67	0.01	0.00
1705	0.74	0.01	0.00
1745	0.46	0.01	0.00
1800	0.35	0.01	0.00
1805	0.49	0.01	0.00
1810	0.63	0.02	0.00
1815	1.1	0.01	0.00
1910	0.35	0.04	0.02
1915	0.39	0.03	0.00
1920	1.9	0.03	0.00
1925	3.0	0.02	0.02
1930	2.0	0.02	0.00
1935	3.0	0.01	0.01
1940	1.2	0.00	0.00
1945	0.77	0.00	0.00
2000	0.60	0.00	0.01
2020	0.39	0.00	0.01
2025	0.39	0.01	0.00
2400	0.39	0.00	0.00
20	0.39	0.00	0.02

Table 76.--Rainfall-runoff data, July 26-27, 1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1920	0.35	0.02	0.00
1925	0.35	0.01	0.00
1935	0.35	0.00	0.01
1940	0.39	0.01	0.00
1945	0.39	0.00	0.01
1950	0.46	0.02	0.06
1955	0.70	0.05	0.06
2000	7.7	0.04	0.04
2005	14	0.03	0.03
2010	11	0.02	0.02
2015	4.5	0.02	0.02
2020	3.5	0.01	0.02
2025	2.6	0.02	0.01
2030	1.9	0.01	0.02
2035	1.6	0.02	0.01
2040	1.9	0.01	0.01
2045	2.4	0.02	0.02
2050	3.3	0.01	0.01
2055	3.0	0.01	0.00
2100	1.6	0.01	0.01
2105	1.2	0.00	0.00
2110	1.0	0.00	0.00
2115	0.88	0.00	0.00
2120	0.81	0.00	0.00
2125	0.77	0.00	0.00
2130	0.70	0.01	0.01
2150	0.70	0.01	0.00
2155	0.70	0.00	0.01
2215	0.60	0.01	0.00
2235	0.46	0.00	0.01
2245	0.46	0.01	0.01
2250	0.46	0.00	0.01
2255	0.53	0.01	0.00
2300	0.70	0.00	0.01
2305	0.74	0.02	0.03
2310	1.0	0.03	0.01
2315	2.2	0.00	0.00
2320	1.9	0.01	0.01
2325	1.2	0.01	0.01
2330	1.1	0.02	0.02

Table 76.--Rainfall-runoff data, July 26-27, 1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at  
Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
2335	1.4	0.02	0.01
2340	2.6	0.01	0.01
2345	3.3	0.01	0.01
2350	1.8	0.00	0.00
2355	1.4	0.00	0.00
2400	1.0	0.00	0.00
5	0.84	0.00	0.00
10	0.81	0.00	0.00
15	0.77	0.00	0.00
20	0.74	0.00	0.00

Table 77.--Rainfall-runoff data, March 3, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1040	0.00	0.01	1350	0.11	0.00
1100	0.00	0.01	1355	0.12	0.00
1115	0.00	0.01	1400	0.13	0.01
1120	0.25	0.00	1405	0.18	0.01
1125	0.46	0.00	1410	0.30	0.00
1130	0.54	0.01	1415	0.61	0.01
1135	0.56	0.00	1420	0.99	0.01
1140	0.59	0.00	1425	1.1	0.00
1145	0.59	0.00	1430	1.1	0.00
1150	0.59	0.01	1435	1.0	0.01
1155	0.54	0.00	1440	0.92	0.00
1200	0.49	0.00	1445	0.79	0.00
1205	0.44	0.01	1450	0.67	0.00
1210	0.42	0.00	1455	0.61	0.01
1215	0.42	0.00	1500	0.51	0.00
1220	0.44	0.01	1505	0.46	0.00
1225	0.49	0.00	1510	0.40	0.00
1230	0.54	0.00	1515	0.36	0.00
1235	0.54	0.00	1520	0.32	0.01
1240	0.49	0.00	1525	0.30	0.00
1245	0.42	0.00	1530	0.29	0.00
1250	0.38	0.01	1535	0.27	0.00
1255	0.32	0.00	1540	0.29	0.00
1300	0.27	0.00	1545	0.29	0.00
1305	0.24	0.00	1550	0.25	0.00
1310	0.21	0.00	1555	0.25	0.00
1315	0.19	0.00	1600	0.22	0.00
1320	0.18	0.00	1605	0.19	0.00
1325	0.16	0.00	1610	0.16	0.00
1330	0.16	0.00	1615	0.13	0.00
1335	0.14	0.01	1620	0.11	0.00
1340	0.13	0.00	1655	0.11	0.01
1345	0.12	0.00			

Table 78.--Rainfall-runoff data, April 19-20, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1620	0.00	0.02	1940	1.1	0.00
1625	0.00	0.02	1945	0.99	0.00
1630	0.00	0.03	1950	0.95	0.00
1635	2.0	0.03	1955	0.92	0.00
1640	5.1	0.02	2000	0.88	0.00
1645	3.2	0.00	2005	0.85	0.01
1650	1.7	0.00	2010	0.82	0.00
1655	1.2	0.00	2015	0.79	0.00
1700	0.95	0.01	2020	0.82	0.01
1705	0.79	0.00	2025	0.85	0.00
1710	0.70	0.01	2030	0.88	0.00
1715	0.92	0.01	2035	0.88	0.00
1720	1.1	0.01	2040	0.85	0.00
1725	1.2	0.00	2045	0.76	0.00
1730	1.2	0.01	2050	0.61	0.00
1735	1.1	0.00	2055	0.54	0.00
1740	1.0	0.00	2100	0.44	0.00
1745	0.92	0.00	2105	0.38	0.00
1750	0.70	0.00	2110	0.34	0.00
1755	0.54	0.00	2115	0.29	0.00
1800	0.40	0.00	2120	0.25	0.00
1805	0.36	0.01	2125	0.22	0.00
1810	0.34	0.02	2130	0.21	0.00
1815	0.42	0.01	2135	0.19	0.01
1820	0.85	0.01	2140	0.18	0.00
1825	1.1	0.00	2145	0.17	0.01
1830	1.1	0.01	2150	0.19	0.00
1835	1.1	0.00	2155	0.27	0.00
1840	1.1	0.00	2200	0.42	0.00
1845	0.99	0.00	2205	0.49	0.00
1850	0.85	0.00	2210	0.46	0.00
1855	0.64	0.00	2215	0.40	0.00
1900	0.54	0.01	2220	0.30	0.00
1905	0.49	0.00	2225	0.25	0.00
1910	0.54	0.01	2230	0.21	0.00
1915	0.82	0.01	2235	0.18	0.01
1920	1.1	0.00	2240	0.16	0.01
1925	1.2	0.01	2245	0.18	0.01
1930	1.2	0.00	2250	0.30	0.00
1935	1.2	0.01	2255	1.1	0.01

Table 78.--Rainfall-runoff data, April 19-20, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2300	1.1	0.01	2350	0.21	0.00
2305	0.88	0.00	2355	0.19	0.00
2310	0.79	0.00	2400	0.17	0.00
2315	0.67	0.00	5	0.16	0.00
2320	0.56	0.00	10	0.14	0.00
2325	0.46	0.00	15	0.13	0.00
2330	0.38	0.00	20	0.12	0.00
2335	0.30	0.00	25	0.10	0.00
2340	0.27	0.00	30	0.09	0.00
2345	0.22	0.00	35	0.09	0.00

Table 79.--Rainfall-runoff data, April 20, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1245	0.00	0.01	1355	0.51	0.00
1250	0.00	0.04	1400	0.44	0.00
1255	2.8	0.00	1405	0.38	0.00
1300	2.6	0.00	1410	0.32	0.00
1305	1.5	0.00	1415	0.27	0.00
1310	1.0	0.00	1420	0.22	0.00
1315	0.76	0.01	1425	0.18	0.00
1320	0.67	0.00	1430	0.16	0.00
1325	0.61	0.01	1435	0.13	0.00
1330	0.82	0.00	1440	0.11	0.00
1335	0.76	0.00	1445	0.10	0.00
1340	0.70	0.00	1450	0.09	0.00
1345	0.61	0.00	1455	0.09	0.00
1350	0.59	0.00			

Table 80.--Rainfall-runoff data, May 3AM,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
150	0.00	0.01	430	0.95	0.00
155	0.00	0.01	435	0.85	0.00
200	0.00	0.01	440	0.73	0.00
205	0.01	0.01	445	0.67	0.00
210	1.3	0.01	450	0.64	0.00
215	1.5	0.01	455	0.61	0.00
220	1.6	0.01	500	0.59	0.00
225	1.7	0.01	505	0.56	0.00
230	1.6	0.00	510	0.54	0.00
235	1.4	0.02	515	0.49	0.00
240	1.5	0.02	520	0.44	0.00
245	1.7	0.01	525	0.40	0.00
250	1.7	0.00	530	0.38	0.00
255	1.4	0.01	535	0.34	0.00
300	1.2	0.00	540	0.32	0.00
305	1.0	0.00	545	0.29	0.00
310	0.85	0.00	550	0.27	0.00
315	0.73	0.00	555	0.25	0.00
320	0.67	0.01	600	0.24	0.00
325	0.67	0.00	605	0.21	0.00
330	0.64	0.00	610	0.19	0.00
335	0.64	0.00	615	0.18	0.00
340	0.61	0.02	620	0.17	0.00
345	0.59	0.00	625	0.16	0.00
350	0.59	0.01	630	0.14	0.00
355	0.85	0.01	635	0.13	0.00
400	1.1	0.01	640	0.12	0.00
405	1.1	0.01	645	0.11	0.00
410	1.2	0.00	650	0.10	0.00
415	1.2	0.01	655	0.09	0.00
420	1.2	0.00	700	0.09	0.00
425	1.1	0.00	705	0.08	0.00



Table 81.--Rainfall-runoff data, May 3PM,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1250	0.00	0.01	2100	0.00	0.01
1255	0.00	0.01	2155	0.00	0.02
1305	0.00	0.01	2200	0.01	0.02
1310	0.00	0.01	2205	0.01	0.01
1315	0.00	0.01	2210	1.3	0.00
1320	0.01	0.01	2215	1.1	0.00
1325	1.1	0.01	2220	0.92	0.00
1330	1.2	0.00	2225	0.67	0.00
1335	1.0	0.00	2230	0.64	0.00
1340	0.79	0.00	2235	0.59	0.00
1345	0.67	0.00	2240	0.59	0.00
1350	0.61	0.00	2245	0.51	0.00
1355	0.59	0.00	2250	0.44	0.00
1400	0.51	0.00	2255	0.38	0.00
1405	0.44	0.00	2300	0.32	0.00
1410	0.38	0.00	2305	0.25	0.00
1415	0.30	0.00	2310	0.22	0.00
1420	0.25	0.00	2315	0.18	0.00
1425	0.21	0.00	2320	0.16	0.00
1430	0.17	0.00	2325	0.13	0.00
1435	0.13	0.00	2330	0.11	0.00
1440	0.11	0.00	2335	0.10	0.00
1445	0.09	0.00	2340	0.09	0.00
1605	0.00	0.00	2345	0.08	0.00
1620	0.00	0.01	2400	0.05	0.00

Table 82.--Rainfall-runoff data, May 5,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1545	0.00	0.01	1750	0.70	0.00
1640	0.00	0.01	1755	0.70	0.00
1645	0.00	0.01	1800	0.67	0.00
1710	0.00	0.01	1805	0.64	0.00
1715	0.00	0.01	1810	0.54	0.00
1720	0.00	0.01	1815	0.40	0.00
1725	0.51	0.01	1820	0.29	0.00
1730	1.4	0.00	1825	0.21	0.00
1735	1.4	0.00	1830	0.14	0.00
1740	1.1	0.00	1835	0.10	0.00
1745	0.88	0.01	1840	0.09	0.00

Table 83.--Rainfall-runoff data, May 16,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1025	0.02	0.01	1355	0.59	0.01
1035	0.02	0.01	1400	0.61	0.00
1045	0.17	0.00	1405	0.59	0.00
1050	0.36	0.01	1410	0.59	0.00
1055	0.46	0.01	1415	0.56	0.00
1100	0.46	0.00	1420	0.51	0.01
1105	0.44	0.00	1425	0.49	0.00
1110	0.42	0.00	1430	0.49	0.00
1115	0.34	0.00	1435	0.49	0.00
1120	0.30	0.00	1440	0.49	0.01
1125	0.29	0.00	1445	0.49	0.00
1130	0.27	0.00	1450	0.49	0.00
1135	0.22	0.00	1455	0.51	0.00
1140	0.19	0.00	1500	0.51	0.00
1145	0.17	0.00	1505	0.49	0.00
1150	0.14	0.00	1510	0.49	0.00
1155	0.11	0.00	1515	0.34	0.00
1200	0.08	0.00	1520	0.29	0.00
1205	0.06	0.00	1525	0.24	0.00
1230	0.02	0.00	1530	0.21	0.00
1240	0.02	0.01	1535	0.18	0.00
1255	0.07	0.01	1540	0.17	0.00
1300	0.25	0.00	1545	0.14	0.01
1305	0.49	0.01	1550	0.14	0.00
1310	0.73	0.00	1555	0.12	0.00
1315	0.82	0.00	1600	0.11	0.01
1320	0.82	0.01	1605	0.10	0.00
1325	0.79	0.00	1610	0.09	0.00
1330	0.76	0.00	1615	0.09	0.00
1335	0.67	0.00	1620	0.08	0.00
1340	0.61	0.01	1625	0.07	0.00
1345	0.59	0.00	1630	0.06	0.00
1350	0.59	0.00	1635	0.05	0.00

Table 84.--Rainfall-runoff data, May 17-18, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
505	0.02	0.00	830	1.6	0.00
510	0.02	0.01	835	1.5	0.00
520	0.25	0.01	840	1.4	0.01
525	0.92	0.01	845	1.5	0.01
530	1.4	0.00	850	1.5	0.00
535	1.3	0.01	855	1.5	0.01
540	1.3	0.01	900	1.5	0.00
545	1.4	0.02	905	1.4	0.00
550	2.0	0.01	910	1.3	0.01
555	2.3	0.02	915	1.2	0.00
600	2.1	0.00	920	1.2	0.00
605	1.9	0.00	925	1.1	0.00
610	1.7	0.01	930	1.0	0.00
615	1.7	0.01	935	0.95	0.00
620	1.6	0.00	940	0.92	0.01
625	1.7	0.01	945	0.82	0.00
630	1.9	0.01	950	0.76	0.00
635	1.9	0.01	955	0.67	0.01
640	2.0	0.01	1000	0.64	0.00
645	2.0	0.01	1005	0.61	0.00
650	2.0	0.00	1010	0.59	0.00
655	2.0	0.01	1015	0.61	0.00
700	2.0	0.01	1020	0.70	0.00
705	2.0	0.00	1025	0.85	0.00
710	1.9	0.01	1030	0.88	0.01
715	1.9	0.01	1035	0.85	0.01
720	1.9	0.01	1040	0.76	0.00
725	2.1	0.00	1045	0.64	0.00
730	1.9	0.01	1050	0.59	0.00
735	2.0	0.01	1055	0.54	0.00
740	1.9	0.00	1100	0.46	0.00
745	1.9	0.02	1105	0.42	0.00
750	1.9	0.00	1110	0.40	0.00
755	1.7	0.01	1115	0.36	0.00
800	2.0	0.00	1120	0.34	0.00
805	2.1	0.01	1125	0.34	0.00
810	2.1	0.00	1130	0.34	0.00
815	1.9	0.02	1135	0.34	0.00
820	1.7	0.00	1140	0.34	0.00
825	1.6	0.00	1145	0.32	0.00

Table 84.--Rainfall-runoff data, May 17-18, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1150	0.32	0.00	1515	0.95	0.01
1155	0.32	0.00	1520	0.88	0.00
1200	0.36	0.00	1525	0.82	0.00
1205	0.40	0.01	1530	0.82	0.01
1210	0.42	0.01	1535	0.88	0.00
1215	0.44	0.00	1540	0.99	0.01
1220	0.38	0.00	1545	0.99	0.00
1225	0.38	0.00	1550	0.95	0.00
1230	0.38	0.00	1555	0.85	0.00
1235	0.38	0.00	1600	0.76	0.00
1240	0.38	0.00	1605	0.70	0.00
1250	0.34	0.00	1610	0.67	0.01
1255	0.29	0.00	1615	0.76	0.00
1300	0.27	0.00	1620	0.88	0.01
1305	0.24	0.00	1625	0.99	0.00
1310	0.22	0.00	1630	1.2	0.01
1315	0.21	0.00	1635	1.2	0.01
1320	0.19	0.00	1640	1.2	0.01
1325	0.19	0.00	1645	1.3	0.01
1330	0.18	0.00	1650	1.4	0.00
1335	0.17	0.00	1655	1.4	0.01
1340	0.16	0.00	1700	1.4	0.01
1345	0.14	0.00	1705	1.5	0.01
1350	0.12	0.00	1710	1.5	0.01
1355	0.11	0.00	1715	1.7	0.01
1400	0.10	0.00	1720	1.7	0.00
1405	0.09	0.00	1725	1.7	0.01
1410	0.09	0.00	1730	1.5	0.00
1415	0.09	0.01	1735	1.4	0.00
1420	0.09	0.02	1740	1.2	0.00
1425	0.22	0.00	1745	1.2	0.01
1430	0.64	0.01	1750	1.2	0.00
1435	1.1	0.00	1755	1.1	0.00
1440	1.2	0.01	1800	1.1	0.01
1445	1.0	0.01	1805	1.1	0.00
1450	1.2	0.00	1810	1.2	0.01
1455	1.1	0.01	1815	1.2	0.00
1500	1.2	0.00	1820	1.1	0.00
1505	1.1	0.00	1825	1.1	0.01
1510	1.0	0.00	1830	1.1	0.00

Table 84.--Rainfall-runoff data, May 17-18, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1835	1.1	0.01	2155	0.27	0.00
1840	1.1	0.00	2200	0.27	0.00
1845	1.2	0.00	2205	0.25	0.00
1850	1.0	0.00	2210	0.25	0.01
1855	1.0	0.01	2215	0.25	0.00
1900	0.99	0.00	2220	0.27	0.00
1905	0.99	0.00	2225	0.29	0.00
1910	0.92	0.00	2230	0.30	0.00
1915	0.88	0.00	2235	0.32	0.00
1920	0.79	0.00	2240	0.32	0.00
1925	0.70	0.00	2245	0.34	0.01
1930	0.64	0.00	2250	0.32	0.00
1935	0.59	0.01	2255	0.30	0.00
1940	0.56	0.01	2300	0.29	0.00
1945	0.54	0.00	2305	0.29	0.00
1950	0.49	0.00	2310	0.27	0.00
1955	0.46	0.00	2315	0.27	0.00
2000	0.46	0.00	2320	0.27	0.00
2005	0.44	0.00	2325	0.27	0.00
2010	0.42	0.00	2330	0.27	0.00
2015	0.40	0.00	2335	0.27	0.00
2020	0.40	0.00	2340	0.25	0.01
2025	0.38	0.00	2345	0.25	0.00
2030	0.36	0.00	2350	0.27	0.00
2035	0.36	0.00	2355	0.27	0.00
2040	0.34	0.00	2400	0.29	0.00
2045	0.32	0.00	5	0.29	0.00
2050	0.32	0.00	10	0.30	0.00
2055	0.30	0.00	15	0.30	0.00
2100	0.30	0.00	20	0.30	0.01
2105	0.30	0.00	25	0.30	0.01
2110	0.30	0.01	30	0.32	0.00
2115	0.30	0.00	35	0.32	0.00
2120	0.32	0.00	40	0.32	0.00
2125	0.30	0.00	45	0.34	0.00
2130	0.30	0.00	50	0.34	0.00
2135	0.30	0.00	55	0.36	0.00
2140	0.29	0.00	100	0.36	0.00
2145	0.29	0.00	105	0.36	0.00
2150	0.27	0.00	110	0.38	0.00

Table 84.--Rainfall-runoff data, May 17-18, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
115	0.38	0.00	340	0.22	0.00
120	0.42	0.00	345	0.22	0.00
125	0.44	0.00	350	0.21	0.00
130	0.44	0.00	355	0.16	0.00
135	0.38	0.01	400	0.12	0.00
140	0.36	0.00	405	0.12	0.00
145	0.36	0.00	410	0.13	0.00
150	0.40	0.00	415	0.13	0.00
155	0.42	0.00	420	0.12	0.00
200	0.42	0.00	425	0.10	0.00
205	0.42	0.00	430	0.11	0.00
210	0.38	0.00	435	0.12	0.00
215	0.36	0.00	440	0.12	0.00
220	0.34	0.01	445	0.13	0.00
225	0.32	0.00	450	0.12	0.00
230	0.30	0.00	455	0.10	0.00
235	0.29	0.00	500	0.09	0.00
240	0.29	0.00	505	0.09	0.00
245	0.29	0.00	510	0.09	0.00
250	0.29	0.00	515	0.09	0.00
255	0.30	0.00	520	0.09	0.00
300	0.30	0.00	525	0.10	0.00
305	0.29	0.00	530	0.11	0.00
310	0.22	0.00	535	0.13	0.00
315	0.19	0.00	540	0.14	0.00
320	0.18	0.00	545	0.13	0.00
325	0.18	0.00	550	0.12	0.00
330	0.18	0.00	555	0.09	0.00
335	0.19	0.00	600	0.08	0.00

Table 85.--Rainfall-runoff data, May 28,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1345	0.04	0.00	1435	0.22	0.00
1350	0.04	0.02	1440	0.16	0.00
1355	0.46	0.01	1445	0.12	0.00
1400	1.5	0.01	1450	0.09	0.00
1405	1.4	0.00	1455	0.07	0.00
1410	1.1	0.00	1500	0.06	0.00
1415	0.76	0.00	1505	0.04	0.00
1420	0.51	0.00	1510	0.04	0.00
1425	0.38	0.00	1515	0.03	0.00
1430	0.29	0.00	1520	0.03	0.00



Table 86.--Rainfall-runoff data, May 28-29,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2020	0.00	0.01	5	0.11	0.00
2050	0.02	0.02	10	0.10	0.00
2055	0.06	0.00	15	0.09	0.00
2100	0.24	0.00	20	0.09	0.00
2105	0.32	0.01	25	0.08	0.00
2110	0.44	0.01	30	0.06	0.00
2115	1.1	0.02	35	0.06	0.00
2120	1.9	0.01	40	0.06	0.00
2125	2.1	0.00	45	0.05	0.00
2130	1.9	0.01	50	0.04	0.00
2135	1.5	0.00	55	0.04	0.00
2140	1.2	0.00	100	0.03	0.00
2145	1.0	0.00	105	0.03	0.00
2150	0.76	0.00	205	0.02	0.01
2155	0.56	0.00	210	0.02	0.02
2200	0.42	0.00	220	0.64	0.01
2205	0.40	0.00	225	2.2	0.01
2210	0.38	0.01	230	2.5	0.01
2215	0.32	0.00	235	1.9	0.01
2220	0.30	0.00	240	1.4	0.00
2225	0.29	0.00	245	1.3	0.00
2230	0.27	0.00	250	1.1	0.00
2235	0.24	0.00	255	0.92	0.00
2240	0.22	0.01	300	0.85	0.00
2245	0.25	0.00	305	0.85	0.00
2250	0.30	0.00	310	0.82	0.00
2255	0.44	0.00	315	0.73	0.00
2300	0.54	0.00	320	0.64	0.00
2305	0.44	0.00	325	0.59	0.00
2310	0.38	0.00	330	0.54	0.01
2315	0.30	0.00	335	0.51	0.00
2320	0.25	0.00	340	0.59	0.01
2325	0.22	0.00	345	0.73	0.00
2330	0.19	0.00	350	0.82	0.00
2335	0.18	0.00	355	0.82	0.00
2340	0.17	0.00	400	0.82	0.01
2345	0.16	0.00	405	0.92	0.00
2350	0.16	0.00	410	0.99	0.01
2355	0.14	0.00	415	0.95	0.00
2400	0.13	0.00	420	0.85	0.00

Table 86.--Rainfall-runoff data, May 28-29,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
425	0.70	0.00	550	0.17	0.00
430	0.59	0.00	555	0.16	0.00
435	0.54	0.00	600	0.13	0.00
440	0.46	0.00	605	0.14	0.00
445	0.44	0.00	610	0.16	0.00
450	0.42	0.00	615	0.16	0.00
455	0.42	0.00	620	0.16	0.00
500	0.36	0.00	625	0.11	0.00
505	0.34	0.00	630	0.08	0.00
510	0.32	0.00	635	0.06	0.00
515	0.29	0.00	640	0.05	0.00
520	0.29	0.00	645	0.06	0.00
525	0.32	0.00	650	0.06	0.00
530	0.32	0.00	655	0.05	0.00
535	0.29	0.00	700	0.04	0.00
540	0.25	0.00	705	0.04	0.00
545	0.19	0.00	710	0.03	0.00

Table 87.--Rainfall-runoff data, June 2-3,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2005	0.00	0.01	115	0.42	0.00
2010	0.00	0.01	120	0.38	0.00
2020	0.09	0.00	125	0.36	0.00
2025	0.34	0.00	130	0.34	0.01
2030	0.40	0.00	135	0.34	0.00
2035	0.29	0.00	140	0.34	0.00
2040	0.18	0.00	145	0.34	0.00
2045	0.13	0.00	150	0.34	0.00
2050	0.09	0.00	155	0.36	0.00
2055	0.06	0.00	200	0.38	0.01
2100	0.04	0.00	205	0.38	0.00
2105	0.04	0.00	210	0.36	0.00
2250	0.01	0.01	215	0.34	0.00
2300	0.01	0.01	220	0.32	0.00
2305	0.10	0.00	225	0.30	0.00
2310	0.46	0.02	230	0.27	0.00
2315	1.2	0.02	235	0.24	0.00
2320	2.0	0.02	240	0.21	0.00
2325	2.6	0.03	245	0.18	0.00
2330	3.1	0.03	250	0.17	0.00
2335	4.1	0.02	255	0.14	0.00
2340	3.8	0.02	300	0.13	0.00
2345	3.2	0.02	305	0.11	0.00
2350	2.9	0.00	310	0.10	0.00
2355	2.2	0.01	315	0.09	0.00
2400	2.1	0.00	320	0.09	0.00
5	2.0	0.01	325	0.08	0.00
10	1.9	0.01	330	0.07	0.00
15	1.9	0.00	335	0.06	0.00
20	1.7	0.01	340	0.06	0.00
25	1.5	0.00	345	0.06	0.00
30	1.4	0.00	350	0.06	0.00
35	1.2	0.00	355	0.05	0.00
40	1.0	0.00	400	0.04	0.00
45	0.92	0.00	405	0.04	0.00
50	0.79	0.00	410	0.04	0.00
55	0.70	0.00	415	0.04	0.00
100	0.61	0.00	420	0.04	0.00
105	0.56	0.00	425	0.04	0.00
110	0.49	0.00	430	0.04	0.00

**Table 87--Rainfall-runoff data, June 2-3, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood--Continued**

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
435	0.04	0.00	510	0.04	0.00
440	0.05	0.00	515	0.04	0.00
445	0.05	0.00	520	0.05	0.00
450	0.05	0.00	525	0.06	0.00
455	0.05	0.00	530	0.06	0.00
500	0.04	0.00	535	0.05	0.00
505	0.03	0.00	540	0.04	0.00

Table 88.--Rainfall-runoff data, July 2, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1535	0.01	0.01	1755	0.07	0.00
1545	0.17	0.00	1800	0.06	0.00
1550	0.44	0.01	1805	0.04	0.00
1555	1.3	0.00	2105	0.00	0.02
1600	1.5	0.00	2110	0.00	0.02
1605	1.2	0.00	2115	1.4	0.02
1610	0.92	0.01	2120	2.3	0.01
1615	0.79	0.00	2125	2.1	0.00
1620	0.73	0.00	2130	1.6	0.00
1625	0.73	0.01	2135	1.2	0.00
1630	0.64	0.00	2140	0.76	0.00
1635	0.54	0.00	2145	0.54	0.00
1640	0.44	0.00	2150	0.42	0.00
1645	0.36	0.00	2155	0.32	0.00
1650	0.29	0.00	2200	0.25	0.00
1655	0.25	0.00	2205	0.19	0.00
1700	0.22	0.00	2210	0.16	0.00
1705	0.19	0.01	2215	0.12	0.00
1710	0.19	0.00	2220	0.10	0.00
1715	0.19	0.00	2225	0.09	0.00
1720	0.19	0.00	2230	0.08	0.00
1725	0.18	0.00	2235	0.07	0.00
1730	0.17	0.00	2240	0.06	0.00
1735	0.14	0.00	2245	0.06	0.00
1740	0.12	0.00	2250	0.05	0.00
1745	0.10	0.00	2255	0.04	0.00
1750	0.09	0.00			

Table 89.--Rainfall-runoff data, July 15,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1920	0.01	0.02	2045	0.36	0.00
1925	0.02	0.04	2050	0.30	0.00
1930	4.1	0.10	2055	0.30	0.00
1935	11	0.03	2100	0.29	0.00
1940	7.8	0.00	2105	0.25	0.00
1945	5.4	0.01	2110	0.22	0.00
1950	2.6	0.00	2115	0.21	0.00
1955	2.0	0.00	2120	0.18	0.00
2000	1.4	0.00	2125	0.17	0.00
2005	1.1	0.00	2130	0.14	0.00
2010	0.88	0.00	2135	0.13	0.00
2015	0.85	0.00	2140	0.11	0.00
2020	0.59	0.00	2145	0.10	0.00
2025	0.51	0.00	2150	0.09	0.00
2030	0.51	0.00	2155	0.09	0.00
2035	0.49	0.00	2200	0.08	0.00
2040	0.40	0.00			

Table 90.--Rainfall-runoff data, July 22,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1640	0.00	0.02	1735	0.25	0.00
1650	0.09	0.01	1740	0.18	0.00
1655	0.70	0.01	1745	0.13	0.00
1700	1.1	0.00	1750	0.10	0.00
1705	1.1	0.01	1755	0.09	0.00
1710	1.1	0.00	1800	0.09	0.00
1715	0.95	0.00	1805	0.09	0.00
1720	0.67	0.00	1810	0.09	0.00
1725	0.51	0.00	1815	0.08	0.00
1730	0.34	0.00			

Table 91.--Rainfall-runoff data, July 26-27,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1900	0.00	0.02	2150	0.73	0.00
1905	0.00	0.05	2155	0.70	0.00
1910	5.1	0.09	2200	0.70	0.01
1915	14	0.13	2205	0.76	0.00
1920	21	0.18	2210	0.88	0.00
1925	15	0.13	2215	0.92	0.00
1930	14	0.11	2220	0.85	0.01
1935	13	0.06	2225	0.79	0.00
1940	11	0.02	2230	0.76	0.00
1945	9.1	0.01	2235	0.73	0.00
1950	7.2	0.00	2240	0.70	0.00
1955	6.3	0.01	2245	0.85	0.01
2000	5.4	0.01	2250	0.82	0.00
2005	3.6	0.00	2255	0.79	0.00
2010	2.8	0.01	2300	0.73	0.00
2015	2.3	0.00	2305	0.67	0.00
2020	2.0	0.01	2310	0.61	0.03
2025	2.1	0.03	2315	1.1	0.00
2030	2.6	0.01	2320	2.0	0.01
2035	2.9	0.00	2325	1.9	0.01
2040	2.5	0.01	2330	1.9	0.01
2045	1.9	0.00	2335	2.0	0.00
2050	1.5	0.00	2340	1.9	0.01
2055	1.4	0.00	2345	1.6	0.00
2100	1.2	0.00	2350	1.4	0.00
2105	1.2	0.00	2355	1.2	0.00
2110	1.1	0.00	2400	1.1	0.00
2115	0.99	0.01	5	1.0	0.00
2120	0.99	0.00	10	0.92	0.00
2125	0.99	0.00	15	0.79	0.00
2130	0.95	0.00	20	0.76	0.00
2135	0.85	0.00	25	0.70	0.00
2140	0.82	0.01	30	0.64	0.00
2145	0.76	0.00	35	0.59	0.00



Table 91.--Rainfall-runoff data, July 26-27,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
40	0.54	0.00	130	0.17	0.00
45	0.46	0.00	135	0.14	0.00
50	0.40	0.00	140	0.13	0.00
55	0.36	0.00	145	0.11	0.00
100	0.29	0.00	150	0.10	0.00
105	0.25	0.00	155	0.09	0.00
110	0.21	0.00	200	0.09	0.00
115	0.19	0.00	205	0.08	0.00
120	0.18	0.00	210	0.08	0.00
125	0.18	0.00			

Table 92.--Rainfall-runoff data, August 9-10, 1981, for station 06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood

(Rainfall is reported in amounts measured during specified time increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1200	0.01	0.02	1555	0.34	0.00
1205	0.00	0.03	1600	0.30	0.01
1210	0.99	0.02	1605	0.30	0.00
1215	2.9	0.01	1610	0.29	0.00
1220	2.6	0.01	1615	0.27	0.00
1225	2.0	0.01	1620	0.30	0.01
1230	1.4	0.00	1625	0.40	0.01
1235	1.3	0.00	1630	0.92	0.00
1240	1.1	0.00	1635	1.2	0.00
1245	0.88	0.00	1640	1.1	0.00
1250	0.67	0.00	1645	0.82	0.00
1255	0.51	0.00	1650	0.59	0.00
1300	0.40	0.00	1655	0.44	0.00
1305	0.36	0.00	1700	0.36	0.00
1310	0.34	0.01	1705	0.32	0.00
1315	0.30	0.00	1710	0.30	0.00
1320	0.30	0.00	1715	0.29	0.00
1325	0.32	0.00	1720	0.27	0.00
1330	0.34	0.00	1725	0.24	0.00
1335	0.32	0.00	1730	0.21	0.00
1340	0.29	0.00	1735	0.18	0.00
1345	0.25	0.00	1740	0.16	0.00
1350	0.22	0.00	1745	0.12	0.00
1355	0.18	0.00	1750	0.11	0.00
1400	0.16	0.00	1755	0.09	0.00
1405	0.13	0.00	1800	0.09	0.00
1410	0.10	0.00	1805	0.08	0.00
1415	0.09	0.00	2035	0.01	0.01
1420	0.09	0.00	2040	0.01	0.02
1425	0.08	0.00	2045	0.02	0.01
1505	0.03	0.01	2050	2.6	0.02
1510	0.04	0.01	2055	3.6	0.07
1515	0.42	0.00	2100	9.4	0.04
1520	1.0	0.01	2105	7.2	0.01
1525	1.1	0.00	2110	4.3	0.01
1530	0.99	0.00	2115	3.4	0.01
1535	0.82	0.00	2120	3.6	0.01
1540	0.64	0.00	2125	3.4	0.00
1545	0.51	0.00	2130	2.9	0.01
1550	0.42	0.00	2135	2.6	0.01

Table 92.--Rainfall-runoff data, August 9-10, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2140	2.6	0.00	2400	0.34	0.00
2145	2.3	0.00	5	0.32	0.00
2150	2.1	0.00	10	0.30	0.00
2155	1.9	0.01	15	0.29	0.00
2200	1.7	0.00	20	0.25	0.00
2205	1.5	0.00	25	0.27	0.00
2210	1.4	0.01	30	0.30	0.00
2215	1.3	0.00	35	0.30	0.00
2220	1.2	0.00	40	0.34	0.00
2225	1.1	0.00	45	0.32	0.00
2230	1.1	0.00	50	0.25	0.00
2235	0.95	0.01	55	0.21	0.00
2240	0.88	0.00	100	0.21	0.00
2245	0.79	0.00	105	0.29	0.00
2250	0.73	0.00	110	0.29	0.00
2255	0.67	0.00	115	0.25	0.00
2300	0.64	0.00	120	0.24	0.00
2305	0.64	0.00	125	0.19	0.00
2310	0.59	0.00	130	0.17	0.00
2315	0.59	0.01	135	0.17	0.00
2320	0.54	0.00	140	0.16	0.00
2325	0.49	0.00	145	0.17	0.00
2330	0.44	0.00	150	0.17	0.00
2335	0.38	0.00	155	0.14	0.00
2340	0.44	0.00	200	0.12	0.00
2345	0.44	0.00	205	0.10	0.00
2350	0.42	0.00	210	0.09	0.00
2355	0.38	0.00	215	0.09	0.00

Table 93.--Rainfall-runoff data, August 12,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood.

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
830	0.02	0.01	1120	0.42	0.01
845	0.18	0.00	1125	1.4	0.00
850	0.19	0.01	1130	1.5	0.01
855	0.25	0.00	1135	1.4	0.00
900	0.30	0.00	1140	1.1	0.00
905	0.27	0.00	1145	0.99	0.01
910	0.25	0.00	1150	0.82	0.00
915	0.24	0.00	1155	0.70	0.00
920	0.21	0.00	1200	0.59	0.00
925	0.19	0.00	1205	0.51	0.00
930	0.18	0.00	1210	0.40	0.00
935	0.14	0.00	1215	0.36	0.00
940	0.12	0.00	1220	0.29	0.00
945	0.11	0.00	1225	0.24	0.00
950	0.09	0.00	1230	0.19	0.00
955	0.08	0.00	1235	0.14	0.00
1050	0.04	0.01	1240	0.12	0.00
1110	0.03	0.01	1245	0.09	0.00
1115	0.06	0.01	1250	0.08	0.00

Table 9<sup>4</sup>.--Rainfall-runoff data, August 12-13, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1915	0.01	0.01	10	1.4	0.00
2010	0.06	0.00	15	1.4	0.00
2015	0.08	0.00	20	1.2	0.00
2020	0.06	0.00	25	1.1	0.00
2025	0.06	0.00	30	0.88	0.01
2030	0.04	0.00	35	0.70	0.00
2035	0.04	0.00	40	0.61	0.00
2040	0.03	0.00	45	0.51	0.00
2045	0.03	0.00	50	0.42	0.00
2050	0.03	0.00	55	0.36	0.00
2055	0.03	0.00	100	0.30	0.00
2100	0.03	0.00	105	0.27	0.00
2105	0.04	0.00	110	0.24	0.00
2110	0.04	0.00	115	0.24	0.00
2115	0.05	0.00	120	0.24	0.00
2120	0.04	0.00	125	0.21	0.00
2125	0.04	0.00	130	0.21	0.00
2130	0.04	0.00	135	0.17	0.00
2135	0.03	0.00	140	0.14	0.00
2140	0.03	0.00	145	0.12	0.00
2145	0.03	0.00	150	0.12	0.00
2150	0.03	0.00	155	0.11	0.00
2155	0.02	0.00	200	0.11	0.00
2200	0.02	0.00	205	0.11	0.00
2310	0.03	0.01	210	0.12	0.00
2315	0.03	0.01	215	0.13	0.00
2320	0.02	0.01	220	0.12	0.00
2325	0.03	0.04	225	0.14	0.00
2330	4.1	0.03	230	0.14	0.00
2335	4.9	0.01	235	0.14	0.00
2340	3.9	0.01	240	0.12	0.00
2345	3.1	0.01	245	0.09	0.00
2350	2.2	0.00	250	0.07	0.00
2355	1.6	0.01	255	0.06	0.00
2400	1.4	0.00	300	0.06	0.00
5	1.4	0.00	305	0.06	0.00

Table 95.--Rainfall-runoff data, August 16,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2000	0.00	0.02	2120	0.03	0.01
2015	0.25	0.00	2140	0.24	0.00
2020	0.36	0.00	2145	0.34	0.00
2025	0.38	0.00	2150	0.34	0.00
2030	0.29	0.00	2155	0.29	0.00
2035	0.21	0.00	2200	0.21	0.00
2040	0.14	0.00	2205	0.16	0.00
2045	0.10	0.00	2210	0.12	0.00
2115	0.03	0.01	2215	0.09	0.00

Table 96.--Rainfall-runoff data, August 29,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1905	0.02	0.01	1945	0.44	0.00
1910	0.01	0.01	1950	0.34	0.00
1920	0.40	0.01	1955	0.25	0.00
1925	1.1	0.00	2000	0.19	0.00
1930	0.92	0.00	2005	0.14	0.00
1935	0.70	0.00	2010	0.11	0.00
1940	0.59	0.00	2015	0.09	0.00

Table 97.--Rainfall-runoff data, August 31,1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1720	0.00	0.01	1755	0.85	0.00
1725	0.00	0.01	1800	0.61	0.00
1735	0.22	0.01	1805	0.44	0.00
1740	1.1	0.01	1810	0.30	0.00
1745	1.1	0.00	1815	0.22	0.00
1750	1.0	0.00	1830	0.08	0.01



Table 98.--Rainfall-runoff data, September 6-7, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2210	0.00	0.01	135	1.0	0.00
2225	0.00	0.01	140	0.85	0.00
2235	0.32	0.01	145	0.76	0.00
2240	0.85	0.00	150	0.70	0.00
2245	0.95	0.00	155	0.64	0.00
2250	0.95	0.01	200	0.61	0.00
2255	0.95	0.00	205	0.56	0.00
2300	0.92	0.01	210	0.49	0.00
2305	0.92	0.00	215	0.44	0.01
2310	0.88	0.00	220	0.40	0.00
2315	0.92	0.01	225	0.38	0.00
2320	1.0	0.01	230	0.34	0.00
2325	1.3	0.00	235	0.34	0.00
2330	1.6	0.01	240	0.32	0.00
2335	1.7	0.00	245	0.29	0.00
2340	1.5	0.01	250	0.25	0.00
2345	1.4	0.00	255	0.24	0.00
2350	1.3	0.01	300	0.22	0.00
2355	1.2	0.00	305	0.24	0.00
2400	1.1	0.00	310	0.25	0.00
5	1.0	0.00	315	0.24	0.00
10	0.88	0.00	320	0.22	0.00
15	0.76	0.00	325	0.29	0.00
20	0.70	0.01	330	0.27	0.00
25	0.64	0.00	335	0.22	0.00
30	0.61	0.00	340	0.19	0.00
35	0.59	0.00	345	0.19	0.00
40	0.56	0.00	350	0.19	0.00
45	0.56	0.00	355	0.17	0.00
50	0.51	0.01	400	0.14	0.00
55	0.46	0.00	405	0.11	0.00
100	0.46	0.00	410	0.10	0.00
105	0.49	0.01	415	0.10	0.00
110	0.61	0.02	420	0.09	0.00
115	1.0	0.01	425	0.14	0.00
120	1.2	0.00	430	0.19	0.00
125	1.3	0.01	435	0.21	0.00
130	1.2	0.00	440	0.21	0.00

Table 98.--Rainfall-runoff data, September 6-7, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center,  
at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
445	0.19	0.00	550	0.16	0.00
450	0.17	0.00	555	0.13	0.00
455	0.17	0.00	600	0.12	0.00
500	0.13	0.00	605	0.12	0.00
505	0.12	0.00	610	0.11	0.00
510	0.12	0.00	615	0.12	0.00
515	0.13	0.00	620	0.14	0.00
520	0.14	0.00	625	0.14	0.00
525	0.16	0.00	630	0.14	0.00
530	0.16	0.00	635	0.12	0.00
535	0.16	0.00	640	0.09	0.00
540	0.16	0.00	645	0.08	0.00
545	0.17	0.00			

Table 99.--Rainfall-runoff data, March 3,1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1045	0.00	0.01	1350	0.16	0.01
1105	0.00	0.01	1405	0.15	0.01
1120	0.00	0.01	1410	0.17	0.01
1130	0.26	0.00	1415	0.23	0.00
1135	0.43	0.00	1420	0.51	0.01
1140	0.47	0.01	1425	0.80	0.00
1145	0.47	0.00	1430	0.92	0.01
1150	0.51	0.00	1435	0.86	0.00
1155	0.47	0.00	1440	0.80	0.00
1200	0.47	0.00	1445	0.75	0.00
1205	0.43	0.00	1450	0.65	0.00
1210	0.43	0.01	1455	0.55	0.00
1215	0.39	0.00	1500	0.51	0.01
1220	0.39	0.00	1505	0.43	0.00
1225	0.39	0.01	1510	0.43	0.00
1230	0.43	0.00	1515	0.35	0.00
1235	0.47	0.00	1520	0.32	0.00
1240	0.43	0.00	1525	0.29	0.00
1245	0.43	0.00	1530	0.29	0.00
1250	0.39	0.00	1535	0.26	0.01
1255	0.35	0.00	1540	0.26	0.00
1300	0.29	0.01	1545	0.26	0.00
1305	0.26	0.00	1550	0.26	0.00
1310	0.23	0.00	1555	0.26	0.00
1315	0.19	0.00	1600	0.23	0.00
1320	0.19	0.00	1605	0.20	0.00
1325	0.18	0.00	1610	0.19	0.00
1330	0.18	0.00	1615	0.18	0.00

Table 100.--Rainfall-runoff data, April 19-20, 1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1615	0.00	0.01	1935	1.2	0.01
1620	0.00	0.03	1940	1.1	0.00
1625	0.00	0.03	1945	1.0	0.00
1630	0.00	0.03	1950	0.98	0.00
1635	4.2	0.02	1955	0.94	0.00
1640	5.4	0.00	2000	0.92	0.00
1645	3.9	0.00	2005	0.86	0.01
1650	2.0	0.00	2010	0.86	0.00
1655	1.2	0.01	2015	0.82	0.00
1700	0.98	0.00	2020	0.82	0.01
1705	0.90	0.01	2025	0.86	0.00
1710	0.86	0.01	2030	0.90	0.00
1715	0.96	0.01	2035	0.90	0.00
1720	1.2	0.01	2040	0.86	0.00
1725	1.2	0.00	2045	0.78	0.00
1730	1.2	0.01	2050	0.66	0.00
1735	1.2	0.00	2055	0.58	0.00
1740	1.0	0.00	2100	0.50	0.00
1745	0.94	0.00	2105	0.42	0.00
1750	0.82	0.00	2110	0.34	0.00
1755	0.34	0.00	2115	0.30	0.00
1800	0.54	0.01	2120	0.28	0.00
1805	0.50	0.02	2125	0.26	0.00
1810	0.46	0.01	2130	0.22	0.01
1815	0.54	0.01	2135	0.22	0.00
1820	0.96	0.01	2140	0.20	0.00
1825	1.1	0.00	2145	0.20	0.01
1830	1.2	0.01	2150	0.20	0.00
1835	1.2	0.00	2155	0.30	0.00
1840	1.1	0.00	2200	0.50	0.00
1845	1.0	0.00	2205	0.54	0.00
1850	0.92	0.00	2210	0.50	0.00
1855	0.82	0.00	2215	0.42	0.00
1900	0.70	0.01	2220	0.34	0.00
1905	0.62	0.00	2225	0.28	0.00
1910	0.66	0.01	2230	0.24	0.01
1915	0.92	0.01	2235	0.22	0.01
1920	1.1	0.00	2240	0.20	0.01
1925	1.2	0.01	2245	0.20	0.01
1930	1.2	0.00	2250	0.66	0.00

Table 100.--Rainfall-runoff data, April 19-20,1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2255	1.1	0.00	2355	0.20	0.00
2300	1.0	0.00	2400	0.19	0.00
2305	0.92	0.00	5	0.18	0.00
2310	0.78	0.00	10	0.18	0.00
2315	0.62	0.00	15	0.17	0.00
2320	0.50	0.00	20	0.16	0.00
2325	0.42	0.00	25	0.15	0.00
2330	0.30	0.00	30	0.14	0.00
2335	0.28	0.00	35	0.13	0.00
2340	0.26	0.00	40	0.13	0.00
2345	0.24	0.00	430	0.04	0.01
2350	0.22	0.00			

Table 101.--Rainfall-runoff data, May 3,1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
200	0.04	0.01	410	0.92	0.01
210	0.04	0.02	415	1.0	0.00
215	0.08	0.01	420	1.1	0.00
220	0.96	0.01	425	1.2	0.00
225	1.6	0.01	430	1.2	0.01
230	1.8	0.01	435	1.1	0.00
235	1.8	0.01	440	0.98	0.00
240	1.8	0.01	445	0.92	0.00
245	1.7	0.01	450	0.82	0.00
250	1.7	0.02	455	0.70	0.00
255	2.0	0.00	500	0.62	0.00
300	2.1	0.01	505	0.50	0.00
305	1.8	0.00	510	0.42	0.00
310	1.4	0.01	515	0.30	0.00
315	1.1	0.01	520	0.24	0.00
320	0.96	0.00	525	0.20	0.00
325	0.90	0.00	530	0.19	0.00
330	0.78	0.00	535	0.18	0.00
335	0.66	0.01	540	0.17	0.00
340	0.58	0.01	545	0.15	0.00
345	0.54	0.00	550	0.14	0.00
350	0.46	0.01	555	0.14	0.00
355	0.42	0.00	600	0.13	0.00
400	0.46	0.01	605	0.13	0.00
405	0.66	0.01			

Table 102.--Rainfall-runoff data, June 2-3, 1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2005	<sup>1</sup> 0.00	0.01	2325	<sup>1</sup> 0.22	0.02
2010	<sup>1</sup> 0.00	0.01	2330	<sup>1</sup> 0.62	0.03
2015	<sup>1</sup> 0.00	0.00	2335	<sup>1</sup> 1.0	0.02
2020	<sup>1</sup> 0.00	0.00	2340	<sup>1</sup> 1.6	0.02
2025	<sup>1</sup> 0.00	0.00	2345	<sup>1</sup> 2.0	0.01
2030	<sup>1</sup> 0.00	0.00	2350	<sup>1</sup> 2.2	0.00
2100	<sup>1</sup> 0.03	0.00	2355	<sup>1</sup> 2.2	0.01
2105	<sup>1</sup> 0.03	0.00	2400	<sup>1</sup> 2.1	0.00
2115	<sup>1</sup> 0.03	0.00	5	<sup>1</sup> 2.0	0.01
2125	<sup>1</sup> 0.03	0.00	10	<sup>1</sup> 1.9	0.00
2130	<sup>1</sup> 0.03	0.00	15	<sup>1</sup> 1.8	0.00
2140	<sup>1</sup> 0.03	0.00	20	<sup>1</sup> 1.7	0.01
2155	<sup>1</sup> 0.03	0.00	25	<sup>1</sup> 1.5	0.00
2205	<sup>1</sup> 0.03	0.00	30	<sup>1</sup> 1.3	0.00
2210	<sup>1</sup> 0.03	0.00	35	<sup>1</sup> 1.2	0.00
2215	<sup>1</sup> 0.03	0.00	40	<sup>1</sup> 1.1	0.00
2255	<sup>1</sup> 0.03	0.01	45	<sup>1</sup> 0.98	0.00
2305	<sup>1</sup> 0.03	0.01	50	<sup>1</sup> 0.92	0.00
2310	<sup>1</sup> 0.03	0.01	125	<sup>1</sup> 0.30	0.01
2315	<sup>1</sup> 0.04	0.01	205	<sup>1</sup> 0.16	0.01
2320	<sup>1</sup> 0.12	0.02	215	<sup>1</sup> 0.16	0.00

<sup>1</sup> Some flow bypassed gage.

Table 103.--Rainfall-runoff data, July 2-3,1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1445	0.01	0.01	2115	0.04	0.02
1540	0.01	0.01	2125	0.12	0.00
1555	0.02	0.01	2130	0.16	0.01
1605	0.07	0.00	2135	0.16	0.00
1610	0.07	0.00	2140	0.15	0.00
1615	0.06	0.00	2145	0.15	0.00
1620	0.05	0.00	2150	0.15	0.00
1625	0.05	0.01	2155	0.14	0.00
1630	0.06	0.00	2200	0.13	0.00
1635	0.06	0.00	2205	0.12	0.00
1640	0.06	0.00	2210	0.11	0.00
1645	0.07	0.00	2215	0.10	0.00
1650	0.07	0.00	2220	0.09	0.00
1655	0.07	0.00	2225	0.08	0.00
1700	0.06	0.00	2230	0.07	0.00
1705	0.06	0.00	2235	0.06	0.00
1710	0.06	0.01	2240	0.05	0.00
1715	0.05	0.00	2245	0.05	0.00
1720	0.05	0.00	2250	0.05	0.00
1725	0.05	0.00	2255	0.05	0.00
1730	0.05	0.00	2300	0.04	0.00
1735	0.04	0.00	2305	0.04	0.00
1740	0.05	0.00	2310	0.04	0.00
1745	0.05	0.00	2315	0.04	0.00
1750	0.04	0.00	2320	0.04	0.00
1755	0.04	0.00	2325	0.04	0.00
1800	0.05	0.00	2330	0.04	0.00
1805	0.05	0.00	2335	0.04	0.00
1810	0.05	0.00	2340	0.04	0.00
1815	0.04	0.00	2345	0.04	0.00
1820	0.04	0.00	2350	0.04	0.00
1825	0.04	0.00	2355	0.04	0.00
1830	0.04	0.00	2400	0.04	0.00
1835	0.04	0.00	5	0.04	0.00
1840	0.04	0.00	10	0.04	0.00
1845	0.04	0.00	15	0.04	0.00
1850	0.04	0.00	20	0.04	0.00
1855	0.04	0.00	25	0.04	0.00
2105	0.04	0.02	30	0.04	0.00
2110	0.04	0.01	35	0.04	0.00



Table 103.--Rainfall-runoff data, July 2-3,1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
40	0.04	0.00	100	0.04	0.00
45	0.04	0.00	105	0.04	0.00
50	0.04	0.00	110	0.04	0.00
55	0.04	0.00			

Table 104.--Rainfall-runoff data, July 15, 1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1920	0.02	0.01	2055	0.30	0.00
1925	0.03	0.05	2100	0.28	0.00
1930	0.03	0.06	2105	0.24	0.00
1935	1.0	0.02	2110	0.22	0.00
1940	1.7	0.01	2115	0.20	0.00
1945	3.4	0.00	2120	0.19	0.00
1950	3.6	0.00	2125	0.18	0.00
1955	3.0	0.00	2130	0.17	0.00
2000	2.2	0.00	2135	0.16	0.00
2005	1.6	0.00	2140	0.15	0.00
2010	1.2	0.00	2145	0.14	0.00
2015	1.0	0.00	2150	0.13	0.00
2020	0.94	0.00	2155	0.13	0.00
2025	0.86	0.00	2200	0.12	0.00
2030	0.78	0.00	2205	0.12	0.00
2035	0.66	0.00	2210	0.11	0.00
2040	0.58	0.01	2215	0.11	0.00
2045	0.46	0.00	2220	0.10	0.00
2050	0.38	0.00			

Table 105.--Rainfall-runoff data, July 22,1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1640	0.02	0.02	1830	0.08	0.00
1650	0.02	0.01	1835	0.08	0.00
1700	0.03	0.01	1840	0.08	0.00
1705	0.09	0.00	1845	0.08	0.00
1710	0.15	0.00	1850	0.07	0.00
1715	0.15	0.00	1855	0.07	0.00
1720	0.15	0.00	1900	0.07	0.00
1725	0.14	0.00	1905	0.07	0.00
1730	0.13	0.00	1910	0.06	0.00
1735	0.12	0.00	1915	0.05	0.00
1740	0.12	0.00	1920	0.05	0.00
1745	0.11	0.00	1925	0.05	0.00
1750	0.11	0.00	1930	0.05	0.00
1755	0.10	0.00	1935	0.04	0.00
1800	0.10	0.00	1940	0.04	0.00
1805	0.10	0.00	1945	0.04	0.00
1810	0.09	0.00	1950	0.04	0.00
1815	0.09	0.00	1955	0.03	0.00
1820	0.09	0.00	2000	0.03	0.00
1825	0.09	0.00			

Table 106.--Rainfall-runoff data, August 12,1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
830	0.01	0.01	1110	0.08	0.01
835	0.01	0.00	1115	0.08	0.01
840	0.01	0.00	1120	0.08	0.01
845	0.05	0.00	1125	0.09	0.00
850	0.05	0.01	1130	0.38	0.01
855	0.08	0.00	1135	0.94	0.00
900	0.14	0.00	1140	0.94	0.01
905	0.16	0.00	1145	0.82	0.00
910	0.18	0.00	1150	0.70	0.00
915	0.18	0.00	1155	0.58	0.00
920	0.18	0.00	1200	0.50	0.00
925	0.17	0.00	1205	0.42	0.00
930	0.16	0.00	1210	0.30	0.00
935	0.16	0.00	1215	0.26	0.00
940	0.15	0.00	1220	0.22	0.00
945	0.14	0.00	1225	0.20	0.00
950	0.14	0.00	1230	0.19	0.00
955	0.13	0.00	1235	0.17	0.00
1000	0.12	0.00	1240	0.15	0.00
1005	0.11	0.00	1245	0.14	0.00
1010	0.11	0.00	1250	0.13	0.00
1015	0.11	0.00	1255	0.12	0.00
1020	0.10	0.00	1300	0.11	0.00
1025	0.10	0.00	1305	0.11	0.00
1030	0.10	0.00	1310	0.10	0.00
1035	0.10	0.00	1315	0.09	0.00
1040	0.09	0.00	1320	0.09	0.00
1045	0.09	0.00	1325	0.09	0.00
1050	0.09	0.00	1330	0.08	0.00
1055	0.09	0.00	1335	0.07	0.00
1100	0.09	0.01	1340	0.07	0.00
1105	0.08	0.00	1345	0.07	0.00

Table 107.--Rainfall-runoff data, August 16, 1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2000	0.00	0.01	2140	0.07	0.01
2005	0.01	0.01	2150	0.06	0.00
2025	0.12	0.00	2155	0.18	0.00
2030	0.18	0.00	2200	0.19	0.00
2035	0.20	0.00	2205	0.18	0.00
2040	0.19	0.00	2210	0.17	0.00
2045	0.17	0.00	2215	0.15	0.00
2050	0.15	0.00	2220	0.13	0.00
2055	0.05	0.00	2225	0.12	0.00
2100	0.12	0.00	2230	0.11	0.00
2105	0.10	0.00	2235	0.10	0.00
2110	0.10	0.00	2240	0.10	0.00
2115	0.09	0.00	2245	0.09	0.00
2120	0.08	0.01	2250	0.09	0.00
2125	0.08	0.00	2255	0.08	0.00
2130	0.08	0.00	2300	0.08	0.00

Table 108.--Rainfall-runoff data, August 29,1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1905	0.04	0.01	2000	0.26	0.00
1915	0.05	0.01	2005	0.22	0.00
1930	0.54	0.00	2010	0.19	0.00
1935	0.62	0.00	2015	0.18	0.00
1940	0.58	0.00	2020	0.16	0.00
1945	0.50	0.00	2025	0.15	0.00
1950	0.38	0.00	2030	0.06	0.00

Table 109.--Rainfall-runoff data, August 31, 1981, for station  
06711637 North Avenue Storm Drain at Denver Federal Center  
North Avenue, at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1720	0.15	0.01	1810	0.83	0.00
1725	0.15	0.01	1815	0.53	0.00
1730	0.15	0.01	1820	0.68	0.00
1735	0.18	0.01	1825	0.60	0.00
1745	0.83	0.00	1830	0.55	0.00
1750	1.1	0.00	1835	0.53	0.00
1755	1.1	0.00	1840	0.48	0.00
1800	0.98	0.01	1845	0.45	0.00
1805	0.90	0.00			

Table 110.--Rainfall-runoff data, May 3AM, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
300	0.00	0.01	0.01
315	0.00	0.01	0.00
330	0.01	0.00	0.01
340	0.01	0.01	0.00
345	0.01	0.00	0.01
350	0.03	0.02	0.02
355	0.07	0.00	0.01
400	0.31	0.00	0.00
405	0.06	0.00	0.00
415	0.03	0.01	0.00
420	0.02	0.00	0.01
425	0.03	0.01	0.02
430	0.06	0.01	0.01
435	1.3	0.03	0.03
440	2.2	0.02	0.02
445	2.6	0.01	0.01
450	2.1	0.00	0.01
455	1.5	0.01	0.00
500	0.43	0.00	0.00
505	0.07	0.00	0.00
510	0.03	0.00	0.00



Table 111.--Rainfall-runoff data, May 3PM,1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1320	0.00	0.01	0.02
1325	0.00	0.04	0.02
1330	1.2	0.05	0.07
1335	4.5	0.06	0.03
1340	7.1	0.00	0.00
1345	5.2	0.01	0.01
1350	1.6	0.11	0.14
1355	7.0	0.11	0.05
1400	13	0.01	0.00
1405	13	0.00	0.00
1410	7.3	0.00	0.00
1415	1.2	0.00	0.00
1420	0.06	0.00	0.00

Table 112.--Rainfall-runoff data, May 3-4 ,1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
2120	0.02	0.03	0.02
2125	0.02	0.01	0.00
2130	0.07	0.01	0.01
2135	0.07	0.02	0.02
2140	1.1	0.02	0.01
2145	1.8	0.00	0.00
2150	1.3	0.00	0.00
2155	0.11	0.00	0.00
2200	0.05	0.00	0.00
2205	0.03	0.01	0.01
2210	0.03	0.00	0.01
2215	0.03	0.01	0.01
2220	0.04	0.01	0.00
2225	0.06	0.00	0.00
2230	0.06	0.01	0.01
2235	0.06	0.00	0.00
2240	0.04	0.00	0.00
2250	0.04	0.01	0.01
2255	0.04	0.01	0.01
2300	0.05	0.00	0.00
2305	0.06	0.00	0.00
2310	0.05	0.00	0.00
2400	0.02	0.00	0.00
145	0.01	0.00	0.01
240	0.01	0.01	0.00

Table 113.--Rainfall-runoff data, May 12-13, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
2000	0.02	0.01	0.01
2005	0.03	0.00	0.01
2015	0.04	0.02	0.02
2020	0.06	0.00	0.01
2025	0.39	0.01	0.00
2030	0.27	0.00	0.01
2035	0.15	0.00	0.00
2040	0.06	0.00	0.00
2045	0.06	0.01	0.01
2050	0.06	0.01	0.01
2055	0.39	0.01	0.01
2100	1.2	0.00	0.01
2105	1.2	0.01	0.00
2110	1.2	0.00	0.00
2115	0.39	0.01	0.01
2120	0.27	0.00	0.00
2125	0.15	0.00	0.01
2130	0.23	0.01	0.01
2135	0.39	0.01	0.01
2140	1.1	0.00	0.00
2145	1.4	0.01	0.01
2150	1.5	0.01	0.01
2155	1.5	0.00	0.01
2200	1.4	0.00	0.01
2205	1.4	0.01	0.00
2210	1.3	0.00	0.00
2215	0.39	0.00	0.01
2220	0.15	0.01	0.00
2225	0.07	0.00	0.00
2230	0.05	0.00	0.01
2235	0.05	0.00	0.00
2240	0.05	0.00	0.01
2245	0.04	0.01	0.01
2250	0.06	0.00	0.00
2255	0.19	0.01	0.01
2300	0.27	0.00	0.00
2305	0.23	0.00	0.00
2310	0.06	0.00	0.01
2315	0.06	0.01	0.00
2320	0.05	0.00	0.01

Table 113.--Rainfall-runoff data, May 12-13, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
2325	0.05	0.00	0.00
2330	0.06	0.01	0.00
2335	0.05	0.00	0.00
2340	0.04	0.00	0.00
2345	0.04	0.00	0.01
2355	0.04	0.01	0.01
2400	0.04	0.00	0.00
5	0.06	0.01	0.01
10	0.06	0.00	0.01
15	0.19	0.01	0.00
20	0.07	0.00	0.01
25	0.06	0.00	0.00
30	0.05	0.00	0.00
35	0.04	0.00	0.00
100	0.02	0.01	0.00

Table 114.--Rainfall-runoff data, May 17-18, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
420	0.00	0.01	0.01
440	0.00	0.00	0.01
450	0.02	0.01	0.00
510	0.02	0.00	0.01
515	0.02	0.01	0.00
520	0.02	0.00	0.01
525	0.03	0.01	0.01
530	0.06	0.01	0.01
535	0.35	0.02	0.01
540	1.4	0.00	0.01
545	1.4	0.01	0.01
550	1.2	0.01	0.01
555	0.43	0.01	0.01
600	1.3	0.01	0.01
605	1.5	0.01	0.01
610	1.5	0.01	0.01
615	1.4	0.01	0.01
620	1.3	0.01	0.02
625	1.4	0.02	0.01
630	1.8	0.01	0.02
635	2.2	0.01	0.01
640	2.0	0.01	0.01
645	1.8	0.02	0.01
650	2.0	0.01	0.01
655	2.1	0.02	0.02
700	2.0	0.02	0.02
705	1.8	0.00	0.01
710	1.7	0.01	0.01
715	1.4	0.00	0.00
720	0.35	0.00	0.00
725	0.07	0.01	0.00
730	0.06	0.00	0.01
740	0.05	0.01	0.00
750	0.04	0.00	0.01
800	0.04	0.01	0.00
805	0.04	0.01	0.02
810	0.05	0.01	0.00
815	0.19	0.01	0.02
820	1.2	0.01	0.01
825	1.6	0.02	0.01

Table 114.--Rainfall-runoff data, May 17-18, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
830	1.8	0.01	0.01
840	1.3	0.00	0.01
850	0.15	0.01	0.00
900	0.05	0.00	0.01
920	0.04	0.01	0.00
935	0.03	0.00	0.01
1005	0.03	0.01	0.00
1035	0.03	0.00	0.01
1045	0.03	0.01	0.00
1050	0.03	0.01	0.01
1100	0.04	0.01	0.01
1115	0.05	0.01	0.00
1120	0.05	0.00	0.01
1145	0.03	0.01	0.00
1155	0.03	0.01	0.01
1200	0.03	0.00	0.01
1205	0.04	0.01	0.00
1210	0.05	0.01	0.01
1215	0.07	0.00	0.00
1220	0.19	0.00	0.01
1225	0.15	0.00	0.00
1230	0.07	0.01	0.01
1235	0.07	0.00	0.00
1400	0.03	0.01	0.00
1405	0.04	0.01	0.01
1410	0.07	0.01	0.01
1415	0.11	0.01	0.01
1420	0.43	0.01	0.01
1425	1.1	0.01	0.01
1430	1.5	0.02	0.02
1435	1.6	0.01	0.01
1440	2.0	0.02	0.02
1445	1.8	0.02	0.01
1450	1.8	0.01	0.01
1455	1.8	0.02	0.02
1500	1.9	0.01	0.01
1505	2.3	0.02	0.02
1510	2.0	0.01	0.00
1515	1.7	0.01	0.01
1520	1.6	0.01	0.01

Table 114.--Rainfall-runoff data, May 17-18, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1525	1.7	0.01	0.02
1530	1.7	0.02	0.01
1535	1.7	0.00	0.01
1540	1.6	0.01	0.00
1545	1.7	0.02	0.02
1550	1.7	0.00	0.00
1555	1.6	0.02	0.01
1600	1.8	0.01	0.02
1605	1.9	0.02	0.01
1610	2.0	0.00	0.01
1615	1.6	0.01	0.01
1620	1.5	0.01	0.00
1625	1.3	0.00	0.01
1630	0.39	0.00	0.00
1635	0.19	0.01	0.00
1640	0.15	0.00	0.01
1645	0.11	0.01	0.00
1655	0.07	0.01	0.01
1705	0.11	0.01	0.01
1715	0.15	0.00	0.01
1720	0.19	0.01	0.00
1725	0.19	0.00	0.00
1730	0.19	0.00	0.01
1735	0.19	0.01	0.00
1740	0.07	0.01	0.01
1745	0.06	0.00	0.00
1750	0.19	0.01	0.01
1755	0.07	0.00	0.00
1800	0.07	0.01	0.01
1805	0.11	0.00	0.00
1810	0.15	0.01	0.01
1815	0.11	0.01	0.00
1820	0.11	0.00	0.01
1825	0.27	0.01	0.00
1830	0.15	0.00	0.01
1835	0.11	0.01	0.00
1840	0.11	0.00	0.01
1845	0.07	0.01	0.00
1850	0.06	0.00	0.01
1855	0.06	0.00	0.00

Table 114.--Rainfall-runoff data, May 17-18, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1900	0.06	0.01	0.00
1905	0.07	0.00	0.01
1910	0.07	0.00	0.00
1915	0.06	0.01	0.00
1920	0.06	0.00	0.00
1925	0.06	0.00	0.01
1935	0.05	0.01	0.00
2010	0.04	0.01	0.01
2030	0.04	0.01	0.01
2045	0.05	0.01	0.01
2100	0.05	0.01	0.01
2125	0.04	0.01	0.01
2145	0.04	0.01	0.01
2205	0.04	0.01	0.00
2210	0.04	0.00	0.01
2215	0.04	0.01	0.00
2220	0.05	0.00	0.01
2230	0.06	0.01	0.00
2300	0.04	0.00	0.01
2310	0.04	0.01	0.00
2320	0.04	0.00	0.01
2325	0.04	0.01	0.00
2335	0.05	0.00	0.01
2340	0.05	0.01	0.00
2350	0.06	0.01	0.01
2400	0.07	0.00	0.00
5	0.06	0.01	0.01
115	0.03	0.00	0.01
125	0.03	0.01	0.00



Table 115.--Rainfall-runoff data, May 27-28,1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
2015	0.01	0.03	0.02
2020	0.01	0.01	0.01
2030	0.07	0.00	0.00
2035	0.05	0.00	0.01
2230	0.00	0.01	0.00
2400	0.00	0.00	0.00
155	0.00	0.01	0.02
200	0.00	0.04	0.02
205	1.8	0.03	0.02
210	2.7	0.01	0.02
215	2.9	0.01	0.03
220	2.9	0.02	0.00
225	2.3	0.00	0.01
230	1.5	0.00	0.00
235	0.31	0.00	0.00
240	0.06	0.00	0.00
305	0.02	0.02	0.01
310	0.01	0.01	0.02
315	0.06	0.01	0.01
320	1.2	0.01	0.01
325	1.4	0.02	0.02
330	1.6	0.00	0.01
335	1.6	0.01	0.00
340	1.2	0.00	0.00
345	0.19	0.00	0.01
350	0.06	0.01	0.01
355	0.06	0.00	0.00

Table 116.--Rainfall-runoff data, May 28,1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1425	0.00	0.02	0.01
1430	2.3	0.16	0.14
1435	9.8	0.02	0.00
1440	8.3	0.00	0.00
1445	3.4	0.00	0.00
1450	0.19	0.00	0.00
1455	0.05	0.00	0.00
1545	0.00	0.01	0.00
1555	0.00	0.00	0.01

Table 117.--Rainfall-runoff data, May 29, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
120	0.02	0.02	0.02
125	0.03	0.03	0.03
130	2.5	0.03	0.02
135	4.1	0.01	0.01
140	2.8	0.00	0.00
145	1.5	0.01	0.00
150	0.27	0.00	0.01
155	0.11	0.00	0.00
200	0.06	0.00	0.00
205	0.05	0.00	0.00
245	0.02	0.01	0.02
250	0.02	0.01	0.00
255	0.04	0.00	0.01
300	0.11	0.02	0.01
305	1.1	0.01	0.02
310	1.6	0.02	0.02
315	2.1	0.01	0.01
320	2.2	0.01	0.01
325	1.7	0.01	0.02
330	1.7	0.01	0.01
335	1.9	0.02	0.02
340	1.9	0.01	0.01
345	2.0	0.01	0.02
350	2.1	0.02	0.02
355	2.3	0.01	0.01
400	2.7	0.01	0.01
405	2.2	0.01	0.01
410	1.4	0.00	0.00
415	0.35	0.00	0.00
420	0.07	0.01	0.01
425	0.06	0.00	0.00
430	0.06	0.01	0.01
435	0.07	0.00	0.00
440	0.07	0.01	0.01
445	0.07	0.00	0.00
450	0.05	0.00	0.00
455	0.04	0.00	0.00
625	0.00	0.00	0.01

Table 118.--Rainfall-runoff data, June 11-12, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
2330	0.01	0.04	0.02
2335	0.04	0.09	0.10
2340	7.2	0.09	0.15
2345	13	0.06	0.10
2350	16	0.00	0.00
2355	15	0.01	0.00
2400	9.1	0.00	0.00
5	2.2	0.00	0.00
10	0.19	0.00	0.01
15	0.06	0.00	0.00
20	0.04	0.00	0.00
30	0.03	0.05	0.07
35	3.2	0.03	0.03
40	7.3	0.03	0.03
45	7.6	0.00	0.00
50	4.1	0.05	0.07
55	1.6	0.00	0.00
100	2.1	0.00	0.00
105	2.6	0.00	0.00
110	1.3	0.00	0.00
115	0.04	0.00	0.00
120	0.02	0.00	0.00

Table 119.--Rainfall-runoff data, June 29, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1710	0.00	0.00	0.01
1715	0.00	0.01	0.03
1720	0.07	0.06	0.07
1725	4.7	0.05	0.06
1730	8.0	0.01	0.01
1735	7.1	0.00	0.01
1740	3.6	0.00	0.01
1745	1.2	0.01	0.00
1750	0.06	0.00	0.00
1755	0.05	0.00	0.00
1800	0.04	0.00	0.01
1805	0.03	0.01	0.00
1810	0.02	0.00	0.00
1815	0.03	0.00	0.00
1820	0.02	0.00	0.00
1825	0.02	0.00	0.00
1830	0.01	0.00	0.00
1835	0.01	0.00	0.00
1840	0.00	0.00	0.00
1845	0.00	0.00	0.00
1850	0.00	0.00	0.00
1855	0.00	0.00	0.00
1900	0.00	0.00	0.00
1905	0.00	0.00	0.01

Table 120.--Rainfall-runoff data, July 7, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1715	0.00	0.07	0.03
1720	1.2	0.06	0.08
1725	4.0	0.05	0.05
1730	7.7	0.08	0.06
1735	9.7	0.04	0.05
1740	10	0.04	0.03
1745	9.0	0.01	0.00
1750	6.3	0.01	0.00
1755	2.2	0.00	0.00
1800	0.35	0.00	0.00
1805	0.04	0.00	0.00
1900	0.00	0.00	0.01
1910	0.00	0.01	0.00
1920	0.00	0.00	0.01
1925	0.00	0.01	0.00

Table 121.--Rainfall-runoff data, July 12, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1600	0.01	0.00	0.01
1605	0.00	0.03	0.02
1610	0.04	0.03	0.03
1615	1.5	0.02	0.01
1620	2.0	0.02	0.02
1625	1.8	0.01	0.01
1630	1.6	0.02	0.01
1635	2.3	0.06	0.05
1640	3.7	0.02	0.03
1645	4.3	0.00	0.00
1650	3.5	0.00	0.00
1655	1.7	0.00	0.00
1730	0.02	0.03	0.04
1735	0.15	0.09	0.05
1740	4.6	0.03	0.01
1745	5.6	0.00	0.00
1750	3.2	0.00	0.00
1755	1.2	0.00	0.00
1930	0.02	0.03	0.02
1935	0.02	0.04	0.05
1940	2.1	0.03	0.02
1945	4.1	0.00	0.00
1950	2.8	0.00	0.00
1955	1.2	0.00	0.00
2025	0.02	0.01	0.01
2030	0.02	0.01	0.01
2035	0.03	0.02	0.02
2040	1.3	0.02	0.01
2045	2.2	0.05	0.08
2050	5.5	0.05	0.05
2055	9.8	0.00	0.01
2100	9.1	0.01	0.00
2105	5.4	0.01	0.02
2110	2.0	0.00	0.00
2115	1.4	0.00	0.00
2120	1.1	0.01	0.00
2135	0.15	0.00	0.01

Table 122.--Rainfall-runoff data, July 26-27,1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
2015	0.00	0.00	0.01
2020	0.00	0.02	0.01
2025	0.00	0.06	0.04
2030	2.6	0.05	0.08
2035	5.6	0.03	0.03
2040	7.7	0.02	0.01
2045	5.9	0.01	0.02
2050	3.1	0.01	0.01
2055	1.7	0.02	0.01
2100	1.4	0.01	0.02
2105	1.4	0.01	0.00
2110	1.3	0.00	0.01
2115	0.39	0.00	0.00
2120	0.23	0.01	0.00
2125	0.07	0.00	0.00
2130	0.05	0.00	0.00
2135	0.03	0.00	0.01
2140	0.02	0.00	0.00
2145	0.04	0.02	0.01
2150	0.06	0.01	0.01
2155	0.19	0.01	0.01
2200	1.1	0.01	0.01
2205	0.07	0.00	0.00
2210	0.06	0.00	0.00
2215	0.05	0.00	0.00
2220	0.04	0.00	0.01
2225	0.04	0.01	0.00
2230	0.03	0.00	0.00
2235	0.02	0.00	0.00
2240	0.02	0.00	0.00
2245	0.01	0.00	0.00
2250	0.00	0.00	0.00
2255	0.00	0.00	0.00
2300	0.00	0.00	0.00
2305	0.00	0.00	0.00
2310	0.00	0.00	0.00
2315	0.00	0.00	0.00
2320	0.00	0.00	0.00
2325	0.00	0.00	0.00
2330	0.00	0.00	0.00



Table 122.--Rainfall-runoff data, July 26-27, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
2335	0.00	0.00	0.00
2340	0.00	0.01	0.01
2345	0.00	0.01	0.02
2350	0.00	0.02	0.02
2355	0.07	0.03	0.01
2400	2.0	0.00	0.01
5	1.4	0.00	0.00
10	0.27	0.00	0.00
15	0.06	0.00	0.00
20	0.03	0.00	0.00

Table 123--Rainfall-runoff data, August 9, 1981, for station  
06713010 Cherry Knolls Storm Drain at Denver

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	
		Gage 1	Gage 2
1200	0.00	0.01	0.00
1225	0.00	0.00	0.01
1230	0.00	0.01	0.01
1235	0.00	0.02	0.02
1255	0.03	0.01	0.00
1300	0.02	0.00	0.01
1640	0.00	0.00	0.01
1645	0.00	0.03	0.04
1650	0.06	0.01	0.01
1655	1.2	0.00	0.00
1700	2.3	0.00	0.00
1705	1.7	0.00	0.00
1715	0.06	0.00	0.00
2050	0.00	0.00	0.01
2115	0.00	0.01	0.01
2120	0.00	0.03	0.03
2125	0.31	0.01	0.00
2130	1.2	0.00	0.01
2135	0.43	0.02	0.01
2140	1.1	0.01	0.03
2145	1.4	0.01	0.01
2150	1.9	0.01	0.01
2155	2.0	0.00	0.00
2200	1.2	0.00	0.00
2205	0.19	0.00	0.01
2210	0.06	0.01	0.00
2215	0.05	0.00	0.00
2220	0.05	0.00	0.01
2225	0.05	0.00	0.00
2230	0.04	0.01	0.00
2250	0.03	0.00	0.01
2305	0.02	0.01	0.00
2315	0.03	0.01	0.01
2320	0.06	0.01	0.01
2325	0.07	0.00	0.00
2330	0.07	0.00	0.00
2335	0.06	0.00	0.00
2340	0.05	0.00	0.00
2350	0.03	0.01	0.00

Table 124.--Rainfall-runoff data, April 19-20, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
655	0.00	0.00	0.01	0.01
710	0.00	0.01	0.00	0.00
720	0.00	0.00	0.01	0.01
740	0.00	0.01	0.00	0.00
800	0.00	0.00	0.01	0.00
810	0.00	0.01	0.00	0.01
825	0.00	0.00	0.01	0.00
835	0.00	0.00	0.00	0.01
840	0.00	0.01	0.01	0.00
850	0.56	0.00	0.00	0.01
905	0.72	0.01	0.00	0.00
915	0.64	0.00	0.01	0.00
925	0.49	0.01	0.00	0.00
1245	0.00	0.01	0.00	0.00
1600	0.00	0.00	0.00	0.01
1605	0.00	0.00	0.01	0.01
1610	0.00	0.01	0.00	0.00
1615	1.2	0.00	0.01	0.00
1620	1.7	0.00	0.00	0.01
1630	1.2	0.00	0.01	0.03
1635	1.3	0.01	0.01	0.02
1640	2.7	0.00	0.02	0.02
1645	4.4	0.02	0.01	0.02
1650	5.2	0.02	0.01	0.01
1655	4.9	0.02	0.01	0.02
1700	4.4	0.02	0.01	0.01
1705	4.5	0.02	0.00	0.01
1710	4.5	0.01	0.01	0.01
1715	3.9	0.02	0.00	0.01
1720	3.1	0.01	0.01	0.00
1725	2.7	0.00	0.00	0.01
1730	2.1	0.01	0.00	0.00
1735	1.8	0.01	0.00	0.00
1740	1.6	0.01	0.00	0.00
1745	1.3	0.00	0.01	0.00
1750	0.98	0.01	0.00	0.01
1755	0.80	0.00	0.02	0.01
1800	0.98	0.01	0.02	0.03
1805	3.6	0.00	0.02	0.02
1810	6.4	0.01	0.00	0.01

Table 124.--Rainfall-runoff data, April 19-20, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1815	6.6	0.01	0.01	0.00
1820	4.7	0.01	0.00	0.00
1825	3.3	0.00	0.00	0.00
1830	2.1	0.01	0.00	0.00
1835	1.6	0.00	0.00	0.00
1840	1.1	0.01	0.00	0.00
1850	0.49	0.01	0.00	0.00
1900	0.30	0.01	0.00	0.00
1915	0.00	0.01	0.00	0.00
2210	0.00	0.00	0.00	0.01
2215	0.00	0.00	0.01	0.00
2220	0.00	0.00	0.00	0.01
2225	0.00	0.01	0.01	0.00
2305	0.36	0.00	0.01	0.01
2315	0.24	0.01	0.01	0.00
2325	0.14	0.00	0.00	0.01
2400	0.36	0.00	0.00	0.00
5	0.30	0.01	0.00	0.00
115	0.00	0.01	0.00	0.00

Table 125.--Rainfall-runoff data, May 3AM,1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
145	0.00	Not working	0.01	0.01
150	0.00		0.01	0.01
155	0.00		0.02	0.02
200	0.00		0.01	0.01
205	3.3		0.01	0.01
210	4.2		0.01	0.01
215	4.1		0.01	0.01
220	4.1		0.02	0.02
225	4.2		0.00	0.00
230	4.2		0.01	0.01
235	4.1		0.01	0.01
240	3.6		0.00	0.01
245	3.3		0.02	0.01
250	3.5		0.01	0.02
255	4.2		0.01	0.02
300	5.2		0.01	0.00
305	5.2		0.01	0.01
310	4.5		0.00	0.01
315	3.8		0.00	0.00
320	3.1		0.01	0.00
325	2.3		0.00	0.00
330	1.8		0.00	0.00
335	1.4		0.00	0.00
340	1.1		0.00	0.00
350	0.64		0.00	0.00
410	0.19		0.00	0.00
420	0.00		0.00	0.01
425	0.00		0.00	0.00
430	0.00		0.01	0.00

Table 126.--Rainfall-runoff data, May 3PM,1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1445	0.64	Not working	0.03	0.01
1450	0.49		0.05	0.04
1455	0.49		0.01	0.01
1500	4.7		0.00	0.00
1505	6.1		0.00	0.00
1510	4.7		0.00	0.00
1515	3.1		0.00	0.00
1520	1.9		0.00	0.00
1525	1.2		0.00	0.00
1530	0.80		0.00	0.00
1535	0.56		0.00	0.00
1540	0.49		0.00	0.00
1545	0.36		0.00	0.00
1550	0.30		0.00	0.00
1555	0.24		0.00	0.00
1600	0.24		0.00	0.00
1605	0.19		0.00	0.00
1610	0.14		0.00	0.00
1615	0.14		0.00	0.00
1620	0.14		0.00	0.00
1625	0.14		0.00	0.00
1630	0.14		0.00	0.00
1635	0.14		0.00	0.00
1640	0.14		0.00	0.00
1645	0.14		0.00	0.00
1650	0.10		0.00	0.00
1655	0.06		0.00	0.00
1700	0.03		0.00	0.00
1705	0.01		0.00	0.00
1710	0.00		0.00	0.00
1810	0.00		0.00	0.00
1920	0.00		0.00	0.00
1925	0.00		0.00	0.00
1930	0.00		0.00	0.00
1945	0.00		0.07	0.06
1950	1.7		0.09	0.14
1955	29		0.03	0.02
2000	25		0.02	0.03
2005	20		0.03	0.04
2010	17		0.00	0.00

Table 126.--Rainfall-runoff data, May 3PM,1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
2015	12	Not working	0.00	0.00
2020	8.3		0.00	0.00
2025	4.9		0.00	0.00
2030	2.9		0.00	0.00
2035	1.9		0.00	0.01
2040	1.3		0.00	0.00
2045	0.89		0.00	0.00
2050	0.64		0.00	0.00
2055	0.49		0.00	0.00
2100	0.42		0.00	0.00
2105	0.36		0.01	0.00
2110	0.30		0.00	0.00
2115	0.24		0.00	0.00
2120	0.24		0.00	0.01
2125	0.19		0.01	0.00
2130	0.19		0.00	0.00
2135	0.19		0.00	0.00
2140	0.24		0.00	0.00
2145	0.36		0.00	0.00
2150	0.49		0.00	0.00
2155	0.42		0.00	0.01
2200	0.42		0.00	0.00
2205	0.36		0.00	0.00
2210	0.36		0.00	0.00
2215	0.30		0.01	0.00
2220	0.30		0.00	0.00
2225	0.24		0.00	0.00
2230	0.24		0.00	0.00
2235	0.19		0.00	0.00
2240	0.19		0.00	0.00
2245	0.19		0.00	0.00
2250	0.14		0.00	0.00
2255	0.14		0.00	0.00
2300	0.10		0.00	0.00
2305	0.06		0.00	0.00
2310	0.03		0.00	0.00
2315	0.01		0.00	0.00

Table 127.--Rainfall-runoff data, May 12-13, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1945	0.00	Not working	0.01	0.01
1950	0.00		0.01	0.02
1955	0.00		0.02	0.01
2000	0.00		0.01	0.01
2005	2.5		0.01	0.01
2010	3.9		0.01	0.01
2015	4.1		0.00	0.01
2020	3.6		0.01	0.00
2025	2.8		0.00	0.01
2030	2.3		0.00	0.00
2035	1.7		0.00	0.00
2040	1.4		0.00	0.00
2055	0.64		0.01	0.01
2105	0.49		0.00	0.00
2120	0.42		0.01	0.01
2125	0.42		0.01	0.01
2130	0.56		0.01	0.02
2135	1.4		0.01	0.01
2140	2.7		0.01	0.00
2145	3.5		0.01	0.01
2150	3.3		0.00	0.00
2155	2.9		0.00	0.00
2200	2.4		0.01	0.01
2205	1.9		0.01	0.01
2210	1.7		0.01	0.01
2215	2.1		0.01	0.02
2220	2.9		0.01	0.01
2225	3.9		0.01	0.01
2230	4.2		0.01	0.01
2235	4.4		0.01	0.01
2240	4.1		0.01	0.01
2245	3.8		0.01	0.01
2250	3.6		0.00	0.01
2255	3.6		0.01	0.01
2300	3.3		0.01	0.01
2305	3.3		0.01	0.01
2310	3.6		0.01	0.01
2315	3.8		0.00	0.00
2320	3.5		0.00	0.00
2325	2.8		0.00	0.00



Table 128.--Rainfall-runoff data, May 12-13, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
2330	2.1	Not working	0.01	0.00
2335	1.7		0.00	0.00
2345	0.98		0.00	0.01
2355	0.56		0.00	0.00
2400	0.42		0.00	0.00
10	0.30		0.00	0.00
30	0.14		0.00	0.00
45	0.10		0.00	0.00

Table 128.--Rainfall-runoff data, May 16-18,1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1220	0.00	Not working	0.01	0.02
1230	0.00		0.01	0.00
1235	0.00		0.00	0.01
1250	0.00		0.01	0.00
1255	0.00		0.01	0.01
1300	0.00		0.01	0.01
1305	0.06		0.00	0.00
1310	0.64		0.01	0.01
1320	0.89		0.01	0.02
1345	0.19		0.01	0.00
1350	0.10		0.01	0.01
1355	0.03		0.00	0.01
1400	0.06		0.01	0.00
1405	0.30		0.00	0.01
1415	0.49		0.01	0.00
1420	0.49		0.00	0.00
1425	0.36		0.00	0.01
1430	0.30		0.01	0.00
1435	1.1		0.01	0.00
1440	1.1		0.00	0.01
1450	1.1		0.01	0.01
1500	1.3		0.00	0.00
1505	1.3		0.00	0.00
1510	1.1		0.00	0.00
1520	0.80		0.00	0.00
1535	0.49		0.01	0.01
1540	0.36		0.00	0.00
1550	0.30		0.00	0.01
1605	0.30		0.00	0.00
1615	0.24		0.01	0.00
1635	0.30		0.00	0.01
1645	0.42		0.01	0.00
1655	0.49		0.00	0.01
1700	0.64		0.01	0.00
1705	0.80		0.00	0.01
1710	0.98		0.00	0.00

Table 128.--Rainfall-runoff data, May 16-18, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1715	1.1	Not working	0.01	0.02
1720	1.3		0.00	0.00
1725	1.5		0.01	0.00
1730	1.6		0.00	0.01
1735	1.5		0.01	0.01
1740	1.5		0.00	0.00
1745	1.5		0.00	0.01
1750	1.3		0.00	0.00
1755	1.2		0.00	0.00
1800	1.1		0.00	0.00
1805	0.98		0.00	0.00
1815	0.72		0.01	0.00
1830	0.49		0.00	0.01
1855	0.24		0.00	0.00
1925	0.01		0.00	0.00
1955	0.00		0.00	0.00
2025	0.00		0.00	0.00
2110	0.00		0.00	0.00
2150	0.00		0.00	0.00
2230	0.00		0.01	0.01
2245	0.00		0.00	0.00
2320	0.10		0.01	0.01
2335	0.19		0.01	0.01
2345	0.49		0.01	0.00
2355	0.80		0.00	0.01
2400	0.89		0.00	0.00
5	0.98		0.01	0.00
10	0.98		0.00	0.01
15	0.98		0.01	0.00
20	1.1		0.00	0.01
25	1.2		0.01	0.00
30	1.4		0.00	0.01
35	1.6		0.01	0.00
40	1.6		0.00	0.01
45	1.7		0.01	0.00
50	1.6		0.00	0.00

Table 128.--Rainfall-runoff data, May 16-18, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
55	1.6	Not working	0.00	0.01
100	1.6		0.01	0.00
105	1.5		0.00	0.01
110	1.5		0.01	0.00
115	1.4		0.01	0.01
120	1.6		0.00	0.01
125	2.0		0.01	0.00
130	2.3		0.00	0.01
135	2.8		0.01	0.01
140	2.8		0.00	0.00
145	2.8		0.01	0.00
150	2.7		0.00	0.01
155	2.4		0.01	0.00
200	2.1		0.00	0.01
205	2.0		0.00	0.00
210	2.0		0.01	0.00
215	1.9		0.00	0.01
220	1.7		0.01	0.00
225	1.6		0.00	0.00
230	1.6		0.00	0.01
235	1.6		0.01	0.00
240	1.7		0.00	0.00
245	1.7		0.00	0.01
250	1.7		0.01	0.00
255	1.6		0.00	0.00
300	1.5		0.00	0.00
305	1.3		0.00	0.00
310	1.1		0.00	0.00
315	1.1		0.00	0.00
320	0.98		0.00	0.01
335	0.72		0.00	0.00
340	0.64		0.01	0.00
350	0.56		0.00	0.01
405	0.64		0.01	0.00
415	0.64		0.01	0.01
420	0.80		0.01	0.01

Table 128 --Rainfall-runoff data, May 16-18,1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
425	1.4	Not working	0.02	0.01
430	2.9		0.01	0.02
435	4.2		0.01	0.02
440	5.2		0.02	0.01
445	5.9		0.01	0.02
450	6.1		0.01	0.01
455	6.1		0.01	0.01
500	5.7		0.01	0.00
505	5.4		0.01	0.01
510	5.0		0.01	0.01
515	5.0		0.01	0.01
520	5.0		0.01	0.01
525	4.9		0.00	0.01
530	4.2		0.00	0.00
535	3.5		0.01	0.01
540	3.2		0.01	0.01
545	3.3		0.01	0.01
550	3.3		0.00	0.00
555	3.3		0.01	0.01
600	3.2		0.01	0.01
605	3.1		0.00	0.00
610	3.2		0.01	0.01
615	3.2		0.01	0.00
620	3.2		0.01	0.01
625	3.3		0.00	0.01
630	3.3		0.00	0.00
635	3.1		0.00	0.00
640	2.4		0.01	0.00
645	2.0		0.00	0.00
650	1.6		0.00	0.01
655	1.4		0.00	0.00
700	1.1		0.00	0.00
710	0.80		0.00	0.00
720	0.56		0.01	0.00
725	0.56		0.01	0.01
730	0.72		0.00	0.01

Table 128.--Rainfall-runoff data, May 16-18, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
735	1.1	Not working	0.01	0.00
740	1.6		0.00	0.01
745	1.9		0.00	0.00
750	2.1		0.01	0.01
755	2.1		0.00	0.00
800	2.1		0.00	0.00
805	2.0		0.00	0.00
810	1.8		0.00	0.00
815	1.5		0.01	0.00
820	1.2		0.00	0.00
825	1.1		0.00	0.00
835	0.80		0.00	0.00
855	0.42		0.00	0.00
915	0.42		0.00	0.00
935	0.10		0.00	0.00
955	0.01		0.00	0.00
1000	0.01		0.00	0.01
1005	0.01		0.01	0.01
1010	0.01		0.01	0.00
1015	0.24		0.00	0.00
1025	1.6		0.00	0.01
1030	1.6		0.00	0.00
1035	1.6		0.00	0.00
1040	1.6		0.00	0.00
1045	1.5		0.00	0.00
1050	1.3		0.00	0.00
1055	1.2		0.00	0.00
1100	1.1		0.00	0.00
1105	1.1		0.00	0.00
1115	0.89		0.01	0.00
1120	0.89		0.00	0.00
1140	0.56		0.00	0.00
1210	0.30		0.00	0.00
1310	0.00		0.00	0.01
1315	0.00		0.01	0.00
1320	0.00		0.01	0.01

Table 128.--Rainfall-runoff data, May 16-18, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1325	0.00	Not working	0.01	0.01
1330	0.00		0.01	0.01
1335	0.06		0.02	0.01
1340	2.3		0.01	0.01
1345	3.9		0.01	0.02
1350	4.9		0.02	0.02
1355	5.9		0.02	0.02
1400	7.5		0.02	0.01
1405	7.7		0.00	0.01
1410	6.8		0.02	0.02
1415	6.4		0.00	0.00
1420	5.2		0.00	0.00
1425	4.2		0.00	0.00
1430	2.9		0.00	0.01
1435	2.3		0.01	0.00
1440	1.9		0.00	0.00
1445	1.5		0.00	0.00
1450	1.2		0.00	0.00
1455	1.1		0.01	0.01
1505	1.1		0.00	0.00
1520	1.2		0.01	0.01
1525	1.1		0.00	0.00
1535	0.98		0.01	0.00
1540	0.98		0.00	0.01
1545	1.1		0.00	0.00
1550	1.1		0.01	0.01
1555	1.2		0.01	0.00
1600	1.4		0.00	0.01
1605	1.7		0.01	0.01
1610	2.1		0.01	0.00
1615	2.7		0.01	0.01
1620	2.8		0.00	0.00
1625	2.9		0.01	0.01
1630	2.9		0.00	0.01
1635	2.8		0.01	0.00
1640	2.7		0.00	0.00

Table 128.--Rainfall-runoff data, May 16-18, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1645	2.5	Not working	0.01	0.01
1650	2.3		0.00	0.00
1655	2.3		0.00	0.00
1700	1.9		0.00	0.00
1705	1.6		0.00	0.00
1710	1.4		0.01	0.01
1715	1.2		0.00	0.00
1720	1.1		0.00	0.00
1725	1.1		0.01	0.01
1730	1.1		0.00	0.01
1735	1.2		0.01	0.01
1740	1.5		0.01	0.00
1745	1.7		0.00	0.01
1750	1.9		0.00	0.00
1755	1.9		0.01	0.00
1800	1.9		0.00	0.00
1805	1.7		0.00	0.00
1810	1.5		0.00	0.00
1815	1.3		0.00	0.00
1820	1.1		0.00	0.01
1835	0.80		0.01	0.00
1845	0.64		0.00	0.00
1900	0.56		0.00	0.00
1910	0.49		0.00	0.00
1915	0.49		0.00	0.01
1925	0.42		0.00	0.00
1940	0.42		0.01	0.00
1945	0.42		0.00	0.00
1955	0.42		0.00	0.00
2000	0.42		0.00	0.01
2005	0.42		0.01	0.00
2010	0.49		0.00	0.00
2020	0.64		0.00	0.01
2035	0.72		0.01	0.00
2045	0.72		0.00	0.00
2050	0.72		0.00	0.01



Table 128.--Rainfall-runoff data, May 16-18, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
2055	0.80	Not working	0.00	0.00
2105	0.72		0.00	0.00
2115	0.64		0.01	0.00
2125	0.56		0.00	0.00
2135	0.56		0.00	0.00
2145	0.49		0.00	0.01
2200	0.42		0.00	0.00
2210	0.36		0.00	0.00
2225	0.30		0.00	0.00
2235	0.24		0.00	0.00
2240	0.24		0.01	0.00
2245	0.19		0.00	0.01
2250	0.24		0.00	0.00
2300	0.42		0.00	0.00
2305	0.56		0.01	0.00
2315	0.72		0.00	0.01
2330	0.80		0.00	0.00
2335	0.80		0.01	0.01
2345	0.80		0.00	0.00
2400	0.80		0.00	0.00
5	0.80		0.00	0.01
10	0.80		0.01	0.00
15	0.80		0.00	0.00
30	0.64		0.00	0.00
40	0.56		0.00	0.00
55	0.49		0.00	0.00
110	0.42		0.00	0.01
125	0.42		0.00	0.00
145	0.36		0.00	0.00
200	0.36		0.00	0.00
220	0.19		0.00	0.00

Table 129.--Rainfall-runoff data, June 2-3, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1910	7.8	Not working	Not working	Not working
1915	9.1			
1920	6.7			
1925	4.2			
1930	8.7			
1935	19			
1940	30			
1945	46			
1950	50			
1955	E 71			
2000	E 94			
2005	E 103			
2010	E 91			
2015	E 73			
2020	55			
2025	41			
2030	26			
2035	16			
2040	9.3			
2045	5.9			
2050	4.1			
2055	3.0			
2100	2.4			
2105	1.9			
2110	1.4			
2115	1.1			
2120	1.0			
2145	0.44			
2210	0.00			
2245	0.00			
2325	0.00			
2355	0.00			
2400	0.00			
30	0.00			
105	1.4			
110	1.8			
115	2.1			
120	2.2			
125	2.4			
130	2.4			

Table 129.--Rainfall-runoff data, June 2-3, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
135	2.5	Not working	Not working	Not working
140	2.9			
145	3.2			
150	3.0			
155	3.0			
200	3.3			
205	3.9			
210	3.9			
215	3.5			
220	2.8			
225	2.2			
230	1.9			
235	1.5			
240	1.3			
245	1.1			
310	0.59			
340	0.20			
415	0.00			

Table 130.--Rainfall-runoff data, June 3, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1405	0.00	0.00	Not working	Not working
1410	0.00	0.00		
1440	0.00	0.04		
1445	0.00	0.17		
1450	22	0.15		
1455	55	0.22		
1500	101	0.21		
1505	123	0.10		
1510	121	0.04		
1515	100	0.00		
1520	67	0.00		
1525	42	0.00		
1530	25	0.00		
1535	18	0.00		
1540	14	0.00		
1545	11	0.00		
1550	8.9	0.00		
1555	7.1	0.00		
1600	5.8	0.00		
1605	4.7	0.00		
1610	4.4	0.00		
1615	4.1	0.00		
1620	3.3	0.00		
1625	2.9	0.00		
1630	2.4	0.00		
1635	2.0	0.00		
1640	1.6	0.00		
1645	1.3	0.00		
1650	1.1	0.00		

Table 131.--Rainfall-runoff data, July 11, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1915	0.00	0.00	0.01	0.00
1920	0.00	0.04	0.03	0.01
1925	0.00	0.02	0.05	0.02
1930	0.00	0.03	0.05	0.03
1935	4.5	0.02	0.01	0.03
1940	8.5	0.00	0.00	0.00
1945	7.5	0.00	0.00	0.00
1950	5.5	0.00	0.00	0.01
1955	3.3	0.00	0.00	0.00
2000	1.9	0.00	0.00	0.00
2005	1.2	0.00	0.00	0.00
2010	0.80	0.01	0.01	0.00
2020	0.49	0.00	0.01	0.01
2025	0.42	0.01	0.00	0.00
2030	0.42	0.00	0.01	0.00
2040	1.1	0.00	0.00	0.01
2045	1.1	0.01	0.01	0.00
2050	0.98	0.00	0.00	0.01

Table 132--Rainfall-runoff data, July 12,1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
2055	0.00	0.02	0.01	0.01
2100	0.00	0.01	0.01	0.03
2105	0.19	0.01	0.01	0.00
2110	0.80	0.00	0.01	0.01
2115	1.5	0.01	0.00	0.01
2120	1.5	0.01	0.02	0.01
2125	1.9	0.01	0.01	0.01
2130	2.8	0.00	0.00	0.00
2135	2.9	0.01	0.01	0.01
2140	2.8	0.00	0.00	0.01
2145	2.5	0.01	0.01	0.00
2150	2.3	0.00	0.00	0.00
2155	1.9	0.00	0.00	0.00
2200	1.5	0.00	0.00	0.00
2205	1.1	0.00	0.00	0.00

Table 133.--Rainfall-runoff data, July 26, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1835	0.00	0.01	0.00	0.00
1855	0.00	0.01	0.00	0.00
1900	0.00	0.02	0.12	0.01
1905	0.00	0.03	0.04	0.03
1910	14	0.02	0.06	0.06
1915	18	0.16	0.08	0.11
1920	25	0.02	0.01	0.01
1925	23	0.01	0.00	0.00
1930	15	0.00	0.00	0.01
1935	7.0	0.01	0.00	0.00
1940	3.6	0.01	0.01	0.00
1945	1.9	0.00	0.01	0.02
1950	1.3	0.07	0.08	0.14
1955	9.7	0.02	0.02	0.03
2000	16	0.02	0.02	0.02
2005	14	0.03	0.02	0.02
2010	11	0.01	0.03	0.02
2015	8.5	0.02	0.01	0.01
2020	7.7	0.01	0.02	0.02
2025	7.0	0.02	0.01	0.03
2030	6.6	0.01	0.01	0.00
2035	5.7	0.00	0.00	0.01
2040	4.2	0.00	0.00	0.00
2045	2.5	0.00	0.00	0.00
2050	1.6	0.01	0.01	0.00
2055	1.1	0.01	0.00	0.00
2110	0.56	0.00	0.01	0.01
2115	0.42	0.01	0.00	0.00
2140	0.30	0.00	0.01	0.00
2145	0.30	0.00	0.00	0.01
2150	0.24	0.01	0.00	0.00
2205	0.24	0.00	0.01	0.01
2210	0.24	0.01	0.00	0.00
2330	0.00	0.00	0.01	0.01
2335	0.00	0.01	0.01	0.01
2340	0.00	0.01	0.02	0.01
2345	0.00	0.01	0.00	0.01
2350	0.24	0.01	0.01	0.00
2355	1.6	0.00	0.00	0.00
2400	1.3	0.00	0.00	0.00

Table 134.--Rainfall-runoff data, August 9, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1155	0.00	0.00	0.00	0.01
1200	0.00	0.01	0.00	0.00
1205	0.00	0.00	0.01	0.00
1210	0.00	0.00	0.00	0.01
1220	0.00	0.01	0.01	0.00
1230	0.00	0.00	0.00	0.01
1605	0.00	0.01	0.01	0.00
1610	0.00	0.00	0.00	0.01
1615	0.00	0.01	0.01	0.01
1620	0.00	0.01	0.03	0.04
1625	0.00	0.06	0.07	0.10
1630	7.1	0.05	0.04	0.05
1635	18	0.04	0.01	0.01
1640	17	0.00	0.01	0.00
1645	11	0.01	0.00	0.00
1650	6.1	0.00	0.00	0.00
1655	3.2	0.00	0.00	0.00
1700	1.7	0.00	0.00	0.00
1705	1.1	0.00	0.00	0.00
1950	0.00	0.00	0.01	0.00
2000	0.00	0.01	0.00	0.02
2005	0.00	0.00	0.01	0.00
2020	0.72	0.00	0.00	0.01
2025	0.72	0.01	0.00	0.00
2040	0.56	0.00	0.00	0.01
2045	0.56	0.01	0.02	0.01
2050	0.56	0.01	0.00	0.01
2100	1.6	0.00	0.00	0.00
2105	1.5	0.00	0.00	0.00
2110	1.3	0.00	0.01	0.00
2115	1.1	0.01	0.00	0.01
2120	0.89	0.00	0.00	0.00
2155	0.42	0.01	0.00	0.00
2205	0.30	0.00	0.00	0.01
2210	0.30	0.01	0.00	0.00
2225	0.49	0.01	0.00	0.01
2240	0.80	0.00	0.00	0.01



Table 135.--Rainfall-runoff data, August 16, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1505	0.00	0.00	0.01	0.00
1510	0.00	0.04	0.03	0.01
1515	0.00	0.04	0.02	0.02
1520	2.0	0.02	0.01	0.00
1525	4.2	0.00	0.00	0.00
1530	3.2	0.00	0.00	0.00
1535	1.8	0.00	0.00	0.00
1540	1.1	0.01	0.01	0.01
1545	0.64	0.01	0.01	0.00
1550	0.64	0.02	0.02	0.02
1555	0.80	0.01	0.00	0.01
1600	2.0	0.00	0.00	0.00
1605	2.5	0.00	0.00	0.00
1610	2.0	0.00	0.00	0.00
1615	1.5	0.00	0.00	0.00
1620	0.98	0.00	0.00	0.00
1625	0.64	0.00	0.00	0.00

Table 136.--Rainfall-runoff data, August 22, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1335	0.00	0.03	0.02	0.05
1340	1.9	0.08	0.10	0.14
1345	28	0.09	0.08	0.10
1350	22	0.06	0.04	0.01
1355	17	0.04	0.04	0.02
1400	12	0.01	0.01	0.02
1405	8.7	0.01	0.00	0.00
1410	5.5	0.00	0.00	0.00
1415	2.9	0.00	0.00	0.00
1420	0.98	0.00	0.00	0.00
1425	1.4	0.00	0.01	0.01
1430	1.8	0.02	0.01	0.01
1435	1.6	0.00	0.01	0.01
1440	1.3	0.00	0.00	0.00
1445	0.98	0.00	0.00	0.00
1510	0.42	0.00	0.00	0.00

Table 137.--Rainfall-runoff data, August 28, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1725	0.00	0.05	0.04	0.05
1730	0.00	0.08	0.02	0.04
1735	8.1	0.01	0.01	0.01
1740	8.7	0.00	0.00	0.00
1745	5.0	0.00	0.00	0.00
1750	2.8	0.00	0.00	0.00
1755	1.6	0.00	0.00	0.00
1810	0.42	0.00	0.00	0.00

Table 138.--Rainfall-runoff data, August 29, 1981, for station  
06720420 Storm Drain at 116th Avenue and Claude Court,  
at Northglenn

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches		
		Gage 1	Gage 2	Gage 3
1815	0.00	0.01	0.01	0.00
1825	0.00	0.01	0.00	0.00
1850	0.00	0.01	0.01	0.00
1855	0.00	0.00	0.00	0.01
1900	0.00	0.00	0.02	0.00
1905	0.00	0.01	0.01	0.02
1910	0.10	0.01	0.02	0.02
1915	1.4	0.01	0.02	0.01
1920	2.8	0.01	0.00	0.01
1925	3.3	0.00	0.01	0.00
1930	3.1	0.00	0.00	0.01
1935	2.4	0.01	0.01	0.01
1940	1.9	0.00	0.00	0.00
1945	1.8	0.00	0.00	0.00
1950	1.8	0.00	0.00	0.00
1955	1.4	0.00	0.00	0.00
2000	1.1	0.00	0.00	0.00
2010	0.42	0.00	0.00	0.00
2025	0.06	0.00	0.00	0.00

Table 139.--Rainfall-runoff data, March 20, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1725	0.00	0.01	1815	6.4	0.00
1730	0.01	0.01	1820	4.0	0.01
1735	0.69	0.01	1825	2.1	0.00
1740	2.9	0.02	1830	1.9	0.01
1745	5.3	0.01	1835	1.5	0.00
1750	7.7	0.01	1840	1.2	0.00
1755	6.9	0.01	1845	0.87	0.00
1800	7.3	0.01	1850	0.80	0.00
1805	10	0.01	1855	0.66	0.00

Table 140.--Rainfall-runoff data, April 19-20, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1615	0.79	0.01	1905	1.5	0.00
1620	0.80	0.01	1910	1.4	0.00
1625	1.7	0.01	1915	1.3	0.00
1630	3.5	0.02	1920	1.2	0.00
1635	10	0.01	1925	1.2	0.00
1640	13	0.03	1930	1.1	0.00
1645	22	0.04	1935	1.1	0.00
1650	33	0.01	1940	1.2	0.00
1655	21	0.00	1945	1.2	0.01
1700	8.6	0.01	1950	1.3	0.00
1705	5.5	0.01	1955	1.3	0.00
1710	5.5	0.00	2000	1.4	0.00
1715	6.4	0.01	2005	1.5	0.00
1720	7.2	0.01	2010	1.6	0.00
1725	7.0	0.01	2015	1.5	0.00
1730	5.9	0.00	2020	1.5	0.00
1735	4.8	0.00	2025	1.5	0.00
1740	3.7	0.00	2030	1.4	0.00
1745	3.2	0.00	2035	1.3	0.00
1750	2.5	0.00	2040	1.4	0.00
1755	2.3	0.01	2045	1.3	0.00
1800	2.1	0.00	2050	1.2	0.00
1805	2.1	0.00	2055	1.2	0.00
1810	2.2	0.01	2100	1.2	0.00
1815	2.7	0.01	2105	1.0	0.00
1820	3.8	0.00	2110	1.0	0.00
1825	4.6	0.01	2115	0.93	0.00
1830	4.0	0.00	2120	0.77	0.01
1835	3.2	0.00	2125	0.85	0.00
1840	2.6	0.00	2235	0.76	0.01
1845	2.2	0.00	2240	1.1	0.02
1850	2.1	0.00	2245	3.1	0.01
1855	1.8	0.00	2250	6.0	0.01
1900	1.6	0.00	2255	11	0.02

Table 140.--Rainfall-runoff data, April 19-20, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2300	10	0.00	2355	1.2	0.00
2305	8.4	0.00	2400	1.2	0.00
2310	5.8	0.01	5	1.2	0.00
2315	3.9	0.00	10	1.2	0.00
2320	2.9	0.00	15	1.1	0.00
2325	2.5	0.00	20	0.93	0.00
2330	2.3	0.00	25	0.85	0.00
2335	2.1	0.00	30	0.85	0.00
2340	1.9	0.00	35	0.77	0.00
2345	1.7	0.00	40	0.77	0.00

Table 141.--Rainfall-runoff data, April 20, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1255	0.23	0.01	1340	37	0.00
1300	0.23	0.03	1345	5.7	0.00
1305	30	0.14	1350	5.3	0.00
1310	50	0.10	1355	2.6	0.00
1315	64	0.09	1400	1.5	0.00
1320	60	0.10	1405	1.3	0.00
1325	77	0.06	1410	1.0	0.00
1330	60	0.01	1415	0.70	0.00
1335	37	0.00	1435	0.31	0.01



Table 142.--Rainfall-runoff data, May 3(#1),1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
215	2.3	0.01	355	3.7	0.00
220	2.3	0.00	400	4.0	0.01
225	2.3	0.00	405	5.4	0.01
230	3.6	0.01	410	7.0	0.01
235	5.0	0.01	415	8.0	0.00
240	6.6	0.01	420	7.3	0.02
245	10	0.02	425	7.7	0.00
250	14	0.01	430	7.2	0.00
255	13	0.01	435	6.0	0.00
300	12	0.01	440	5.2	0.01
305	9.6	0.01	445	4.4	0.00
310	8.3	0.00	450	3.9	0.00
315	7.0	0.01	455	3.6	0.00
320	6.2	0.00	500	3.2	0.00
325	5.3	0.00	505	3.1	0.00
330	4.6	0.00	510	2.8	0.00
335	4.0	0.00	515	2.6	0.00
340	3.9	0.01	520	2.5	0.00
345	3.8	0.00	525	2.3	0.00
350	3.7	0.00			

Table 143.--Rainfall-runoff data, May 3(#2),1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1310	2.0	0.02	1350	4.6	0.00
1315	4.5	0.02	1355	3.6	0.00
1320	7.7	0.00	1400	3.2	0.00
1325	8.9	0.04	1405	2.9	0.00
1330	22	0.01	1410	2.6	0.00
1335	18	0.00	1415	2.4	0.00
1340	10.0	0.00	1420	2.2	0.00
1345	6.1	0.00	1425	2.0	0.00

Table 144.--Rainfall-runoff data, May 3(#3), 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2100	1.6	0.01	2225	4.5	0.01
2105	1.6	0.01	2230	4.6	0.00
2110	1.8	0.01	2235	4.0	0.00
2115	2.4	0.00	2240	3.5	0.00
2120	2.9	0.00	2245	3.1	0.00
2125	3.0	0.00	2250	2.9	0.00
2130	3.0	0.00	2255	2.6	0.01
2135	2.8	0.00	2300	2.4	0.00
2140	2.5	0.00	2305	2.2	0.00
2145	2.2	0.00	2310	2.1	0.00
2150	2.0	0.00	2315	2.0	0.00
2155	1.6	0.00	2320	1.9	0.00
2200	1.4	0.00	2325	1.9	0.00
2205	1.7	0.01	2330	1.8	0.00
2210	2.1	0.01	2335	1.7	0.00
2215	3.0	0.00	2340	1.6	0.00
2220	4.0	0.00			

Table 145.--Rainfall-runoff data, May 5, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1710	0.77	0.01	1800	2.4	0.00
1715	0.85	0.01	1805	2.3	0.00
1720	2.2	0.00	1810	2.1	0.00
1725	3.2	0.01	1815	2.1	0.00
1730	4.0	0.00	1820	2.1	0.00
1735	4.3	0.00	1825	1.9	0.00
1740	3.7	0.00	1830	1.9	0.00
1745	3.4	0.00	1835	1.9	0.00
1750	2.9	0.00	2245	1.3	0.01
1755	2.6	0.00			

Table 146.--Rainfall-runoff data, May 6,1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1125	2.0	0.03	1300	2.2	0.00
1130	5.3	0.04	1305	2.2	0.00
1135	14	0.00	1310	2.1	0.00
1140	11	0.00	1340	1.6	0.01
1145	7.2	0.00	1405	1.6	0.00
1150	5.1	0.00	1410	1.7	0.00
1155	4.2	0.00	1415	1.6	0.00
1200	3.7	0.00	1420	1.7	0.00
1205	3.2	0.00	1425	1.7	0.00
1210	2.9	0.00	1430	1.7	0.00
1215	2.8	0.00	1435	1.7	0.00
1220	2.6	0.00	1440	1.5	0.00
1225	2.4	0.00	1445	1.5	0.00
1230	2.4	0.00	1450	1.6	0.00
1235	2.4	0.00	1455	1.6	0.00
1240	2.3	0.00	1500	1.5	0.00
1245	2.2	0.00	1505	1.5	0.00
1250	2.2	0.00	1510	1.5	0.00
1255	2.2	0.00			

Table 147.--Rainfall-runoff data, May 9, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
405	1.3	1 0.01	745	1.8	1 0.00
430	1.5	1 0.00	750	1.8	1 0.00
435	1.6	1 0.00	755	1.8	1 0.00
440	1.6	1 0.00	800	1.8	1 0.01
445	1.9	1 0.00	805	1.8	1 0.00
450	2.1	1 0.00	810	2.0	1 0.00
455	2.5	1 0.01	815	2.6	1 0.01
500	3.1	1 0.01	820	3.4	1 0.01
505	4.0	1 0.01	825	4.5	1 0.00
510	6.3	1 0.01	830	5.4	1 0.01
515	5.7	1 0.00	835	7.0	1 0.01
520	10.0	1 0.01	840	7.6	1 0.00
525	8.0	1 0.00	845	7.7	1 0.01
530	6.1	1 0.00	850	6.2	1 0.01
535	4.7	1 0.01	855	7.0	1 0.01
540	4.2	1 0.00	900	7.0	1 0.01
545	3.7	1 0.00	905	7.5	1 0.01
550	3.1	1 0.00	910	8.3	1 0.00
555	2.9	1 0.00	915	6.7	1 0.01
600	2.6	1 0.00	920	7.2	1 0.00
605	2.4	1 0.00	925	6.5	1 0.00
610	2.5	1 0.00	930	5.7	1 0.00
615	2.4	1 0.00	935	4.8	1 0.00
620	2.5	1 0.00	940	4.3	1 0.00
625	2.4	1 0.00	945	3.6	1 0.01
630	2.4	1 0.00	950	3.7	1 0.00
635	2.4	1 0.00	955	3.5	1 0.00
640	2.4	1 0.00	1000	3.5	1 0.00
645	2.4	1 0.00	1005	3.1	1 0.00
650	2.4	1 0.00	1010	3.2	1 0.00
655	2.3	1 0.00	1015	3.3	1 0.00
700	2.3	1 0.00	1020	3.4	1 0.00
705	2.2	1 0.00	1025	3.2	1 0.00
710	2.2	1 0.00	1030	3.2	1 0.00
715	2.2	1 0.00	1035	3.2	1 0.02
720	2.1	1 0.00	1040	3.9	1 0.00
725	1.9	1 0.00	1045	4.8	1 0.00
730	1.8	1 0.00	1050	5.1	1 0.00
735	1.9	1 0.00	1055	4.8	1 0.00
740	1.8	1 0.00	1100	4.0	1 0.00

Table 147.--Rainfall-runoff data, May 9, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1105	3.8	<sup>1</sup> 0.00	1210	2.2	<sup>1</sup> 0.00
1110	3.6	<sup>1</sup> 0.00	1215	2.2	<sup>1</sup> 0.00
1115	3.2	<sup>1</sup> 0.00	1220	2.2	<sup>1</sup> 0.00
1120	3.1	<sup>1</sup> 0.00	1225	2.2	<sup>1</sup> 0.00
1125	2.9	<sup>1</sup> 0.00	1230	2.2	<sup>1</sup> 0.00
1130	2.7	<sup>1</sup> 0.00	1235	1.9	<sup>1</sup> 0.00
1135	2.6	<sup>1</sup> 0.00	1240	2.1	<sup>1</sup> 0.00
1140	2.5	<sup>1</sup> 0.00	1245	2.1	<sup>1</sup> 0.00
1145	2.5	<sup>1</sup> 0.00	1250	2.0	<sup>1</sup> 0.00
1150	2.4	<sup>1</sup> 0.00	1255	2.0	<sup>1</sup> 0.00
1155	2.3	<sup>1</sup> 0.00	1300	1.9	<sup>1</sup> 0.00
1200	2.2	<sup>1</sup> 0.00	1305	1.8	<sup>1</sup> 0.00
1205	2.2	<sup>1</sup> 0.00			

<sup>1</sup>Mixed rain and snow.

Table 148--Rainfall-runoff data, May 12-13, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2025	1.2	0.01	2345	5.0	0.00
2030	1.5	0.02	2350	5.6	0.01
2035	3.9	0.02	2355	5.4	0.00
2040	7.8	0.02	2400	4.8	0.00
2045	13	0.01	5	3.5	0.00
2050	9.1	0.01	10	3.8	0.00
2055	9.0	0.01	15	3.4	0.00
2100	7.8	0.01	20	3.5	0.00
2105	7.4	0.01	25	3.2	0.00
2110	7.4	0.01	30	3.0	0.00
2115	8.7	0.01	35	2.7	0.00
2120	9.7	0.01	40	2.5	0.00
2125	8.3	0.02	45	2.5	0.00
2130	8.0	0.01	50	2.5	0.00
2135	9.5	0.01	55	2.4	0.00
2140	8.4	0.01	100	2.4	0.00
2145	8.4	0.00	105	2.2	0.00
2150	7.0	0.01	110	2.1	0.00
2155	5.6	0.00	115	2.2	0.00
2200	4.3	0.00	120	2.2	0.00
2205	5.0	0.01	125	2.2	0.00
2210	4.7	0.00	130	2.2	0.00
2215	3.8	0.00	135	2.1	0.00
2220	4.3	0.01	140	2.1	0.00
2225	4.1	0.00	145	1.9	0.00
2230	5.2	0.01	150	1.9	0.00
2235	5.3	0.02	155	2.0	0.00
2240	7.3	0.00	200	2.0	0.00
2245	3.4	0.01	205	1.9	0.00
2250	4.8	0.00	210	1.9	0.00
2255	3.2	0.00	215	1.9	0.00
2300	4.5	0.00	220	1.9	0.00
2305	4.1	0.01	225	1.9	0.00
2310	4.9	0.01	230	1.9	0.00
2315	4.6	0.01	235	1.9	0.00
2320	6.5	0.01	240	1.9	0.00
2325	6.7	0.01	245	2.0	0.00
2330	6.7	0.00	250	1.9	0.00
2335	5.9	0.01	255	1.9	0.00
2340	4.8	0.01	300	2.0	0.00



Table 148.--Rainfall-runoff data, May 12-13, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
305	1.9	0.00	335	1.9	0.00
310	1.8	0.00	340	1.9	0.00
315	1.9	0.00	345	1.9	0.00
320	1.8	0.00	350	1.9	0.00
325	1.9	0.00	355	1.8	0.00
330	1.9	0.00	400	1.7	0.00

Table 149.--Rainfall-runoff data, May 16, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
840	0.31	0.01	1250	8.9	0.01
905	1.0	0.00	1255	6.0	0.01
910	1.1	0.00	1300	8.3	0.01
915	1.1	0.00	1305	7.7	0.01
920	1.1	0.00	1310	8.8	0.01
925	1.2	0.00	1315	5.6	0.01
930	0.93	0.00	1320	2.9	0.01
935	0.93	0.00	1325	4.6	0.02
940	0.85	0.00	1330	5.8	0.00
945	1.0	0.00	1335	4.3	0.01
950	1.0	0.00	1340	5.6	0.01
955	1.1	0.00	1345	4.3	0.01
1000	1.1	0.01	1350	6.3	0.01
1005	1.2	0.00	1355	4.7	0.00
1010	1.2	0.00	1400	3.7	0.01
1015	1.2	0.00	1405	4.8	0.00
1020	1.3	0.00	1410	3.7	0.01
1025	1.2	0.00	1415	4.1	0.00
1030	1.3	0.00	1420	4.3	0.01
1035	1.3	0.00	1425	5.5	0.00
1040	1.3	0.00	1430	4.4	0.00
1045	1.3	0.00	1435	4.0	0.00
1050	1.3	0.00	1440	3.8	0.00
1055	1.2	0.00	1445	3.6	0.00
1100	1.1	0.00	1450	3.5	0.00
1105	1.2	0.00	1455	3.3	0.00
1110	1.1	0.00	1500	2.9	0.00
1115	1.1	0.00	1505	2.8	0.00
1120	1.0	0.00	1510	2.5	0.00
1150	0.93	0.01	1515	2.6	0.00
1200	1.4	0.01	1520	2.4	0.00
1205	1.9	0.01	1525	2.4	0.00
1210	2.6	0.01	1530	2.4	0.00
1215	4.0	0.00	1535	2.0	0.00
1220	4.8	0.01	1540	2.3	0.01
1225	5.2	0.01	1545	1.5	0.00
1230	5.5	0.00	1550	1.8	0.00
1235	5.5	0.02	1555	1.6	0.00
1240	6.4	0.01	1600	1.8	0.00
1245	7.6	0.02	1605	1.4	0.00

Table 150.--Rainfall-runoff data, May 17-18, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
505	1.6	0.01	825	5.6	0.00
510	1.6	0.00	830	5.6	0.01
515	2.1	0.01	835	5.7	0.00
520	3.2	0.00	840	5.3	0.00
525	3.8	0.00	845	5.6	0.00
530	4.0	0.01	850	3.9	0.01
535	4.2	0.00	855	3.6	0.00
540	4.6	0.01	900	3.2	0.00
545	4.6	0.00	905	3.1	0.00
550	4.7	0.01	910	2.6	0.00
555	4.9	0.00	915	2.5	0.00
600	5.3	0.01	920	2.4	0.00
605	5.2	0.01	925	2.9	0.00
610	5.4	0.00	930	2.6	0.00
615	5.6	0.01	935	2.5	0.00
620	6.0	0.01	940	2.7	0.00
625	6.6	0.01	945	2.9	0.01
630	5.4	0.01	950	2.8	0.00
635	7.7	0.00	955	2.7	0.00
640	6.6	0.01	1000	2.7	0.00
645	7.0	0.01	1005	2.9	0.00
650	6.8	0.01	1010	2.6	0.00
655	7.4	0.01	1015	2.7	0.00
700	4.1	0.00	1020	2.9	0.00
705	5.3	0.01	1025	2.4	0.00
710	5.6	0.00	1030	2.4	0.00
715	6.5	0.01	1035	2.6	0.00
720	5.6	0.00	1040	2.1	0.00
725	6.5	0.01	1045	2.1	0.00
730	6.0	0.00	1050	1.8	0.00
735	6.0	0.01	1055	1.5	0.00
740	4.8	0.00	1100	1.9	0.00
745	5.0	0.01	1105	1.7	0.00
750	5.9	0.01	1110	1.7	0.00
755	6.7	0.01	1115	1.6	0.01
800	8.1	0.01	1120	1.5	0.00
805	7.3	0.00	1125	1.6	0.00
810	8.1	0.01	1130	2.2	0.00
815	7.3	0.00	1135	2.2	0.00
820	6.6	0.01	1140	2.4	0.00

Table 150.--Rainfall-runoff data, May 17-18, 1981, for station 394236105042400 Villa Italia Storm Drain at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1145	2.2	0.00	1630	7.3	0.01
1150	2.5	0.00	1635	9.3	0.01
1155	2.3	0.00	1640	11	0.01
1200	2.9	0.01	1645	11	0.02
1205	2.6	0.00	1650	11	0.01
1210	2.4	0.00	1655	12	0.02
1215	2.2	0.00	1700	13	0.01
1220	2.2	0.00	1705	13	0.02
1225	1.9	0.00	1710	14	0.01
1230	2.1	0.00	1715	11	0.00
1235	1.9	0.00	1720	8.9	0.01
1240	1.5	0.00	1725	8.9	0.00
1410	1.6	0.01	1730	8.8	0.01
1415	1.5	0.01	1735	7.6	0.00
1420	4.0	0.02	1740	7.7	0.01
1425	4.8	0.03	1745	6.7	0.00
1430	17	0.01	1750	7.5	0.01
1435	16	0.01	1755	7.6	0.01
1440	14	0.02	1800	6.8	0.00
1445	11	0.01	1805	8.5	0.01
1450	12	0.01	1810	7.0	0.00
1455	8.0	0.00	1815	6.6	0.00
1500	4.4	0.00	1820	5.6	0.00
1505	7.7	0.00	1825	3.7	0.01
1510	5.3	0.01	1830	4.4	0.00
1515	5.3	0.00	1835	3.6	0.00
1520	4.5	0.00	1840	4.2	0.00
1525	4.5	0.01	1845	3.6	0.00
1530	5.0	0.01	1850	3.3	0.00
1535	6.5	0.00	1855	3.5	0.01
1540	5.7	0.01	1900	3.2	0.00
1545	6.0	0.00	1905	2.9	0.00
1550	5.6	0.00	1910	3.1	0.00
1555	4.9	0.00	1915	3.2	0.00
1600	4.1	0.01	1920	2.8	0.00
1605	4.2	0.00	1925	2.9	0.00
1610	5.3	0.01	1930	3.0	0.00
1615	5.8	0.01	1935	2.7	0.00
1620	6.9	0.00	1940	2.9	0.00
1625	8.0	0.01	1945	2.9	0.00

Table 150.--Rainfall-runoff data, May 17-18,1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1950	2.8	0.01	2245	2.8	0.00
1955	2.7	0.00	2250	2.8	0.00
2000	2.9	0.00	2255	2.7	0.00
2005	2.9	0.00	2300	2.5	0.00
2010	2.6	0.00	2305	2.3	0.00
2015	2.8	0.00	2310	2.1	0.00
2020	2.7	0.00	2315	2.2	0.00
2025	2.3	0.00	2320	2.3	0.01
2030	2.7	0.00	2325	1.6	0.00
2035	2.6	0.00	2330	1.6	0.00
2040	2.0	0.00	2335	1.6	0.00
2045	2.1	0.00	2340	1.6	0.00
2050	2.2	0.00	2345	2.4	0.00
2055	2.3	0.00	2350	2.0	0.00
2100	1.5	0.01	2355	2.3	0.01
2105	1.6	0.00	2400	2.6	0.00
2110	1.6	0.00	5	2.4	0.00
2115	2.2	0.00	10	2.4	0.00
2120	2.3	0.00	15	2.6	0.00
2125	2.2	0.00	20	2.5	0.00
2130	2.2	0.00	25	2.5	0.01
2135	2.4	0.00	30	2.6	0.00
2140	1.7	0.01	35	2.3	0.00
2145	2.3	0.00	40	2.4	0.00
2150	2.3	0.00	45	2.7	0.00
2155	2.5	0.00	50	2.6	0.00
2200	2.2	0.00	55	2.2	0.00
2205	2.6	0.00	100	2.5	0.00
2210	2.5	0.00	105	2.4	0.00
2215	2.4	0.00	110	2.4	0.00
2220	2.9	0.00	115	2.4	0.00
2225	2.4	0.01	120	1.8	0.00
2230	2.5	0.00	125	2.2	0.01
2235	2.6	0.00	130	1.7	0.00
2240	2.4	0.00			

Table 151.--Rainfall-runoff data, May 27, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2125	0.00	0.01	2245	1.6	0.00
2130	0.62	0.01	2250	1.3	0.00
2135	3.2	0.04	2255	1.0	0.00
2140	20	0.03	2300	0.93	0.00
2145	40	0.02	2305	0.70	0.00
2150	19	0.01	2310	0.54	0.00
2155	16	0.05	2315	0.46	0.00
2200	44	0.03	2320	0.46	0.00
2205	37	0.01	2325	0.39	0.00
2210	16	0.00	2330	0.39	0.00
2215	7.3	0.00	2335	0.23	0.00
2220	4.5	0.00	2340	0.15	0.00
2225	3.2	0.00	2345	0.15	0.00
2230	2.4	0.00	2350	0.08	0.00
2235	2.2	0.00	2355	0.08	0.00
2240	1.9	0.00	2400	0.00	0.00

Table 152.--Rainfall-runoff data, May 28-29, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2120	0.62	0.02	45	1.6	0.00
2130	0.77	0.01	50	1.7	0.00
2135	1.2	0.01	55	1.6	0.00
2140	2.8	0.00	100	1.6	0.00
2145	5.0	0.01	105	1.7	0.00
2150	5.0	0.00	110	1.7	0.00
2155	4.1	0.00	115	1.7	0.00
2200	3.2	0.00	120	1.7	0.00
2205	2.6	0.00	125	1.7	0.00
2210	2.5	0.00	130	1.7	0.00
2215	2.3	0.00	135	1.7	0.00
2220	1.8	0.00	140	1.7	0.00
2225	1.9	0.01	145	1.6	0.00
2230	2.4	0.03	150	1.5	0.00
2235	13	0.05	155	1.6	0.00
2240	35	0.05	200	1.5	0.00
2245	46	0.00	205	1.6	0.02
2250	19	0.00	210	3.2	0.03
2255	8.7	0.00	215	15	0.01
2300	6.3	0.00	220	12	0.02
2305	4.2	0.00	225	18	0.02
2310	3.4	0.00	230	21	0.02
2315	3.2	0.00	235	19	0.01
2320	2.9	0.00	240	12	0.00
2325	2.4	0.00	245	9.1	0.00
2330	2.4	0.00	250	6.5	0.00
2335	2.2	0.00	255	4.8	0.00
2340	2.2	0.00	300	4.5	0.01
2345	2.4	0.00	305	6.5	0.02
2350	2.2	0.00	310	10	0.02
2355	1.9	0.00	315	13	0.00
2400	1.6	0.00	320	13	0.02
5	1.5	0.00	325	12	0.01
10	1.5	0.00	330	12	0.01
15	1.8	0.00	335	11	0.01
20	1.6	0.00	340	11	0.00
25	1.7	0.00	345	10	0.00
30	1.5	0.00	350	8.3	0.01
35	1.4	0.00	355	7.4	0.00
40	1.7	0.00	400	6.9	0.01

Table 152.--Rainfall-runoff data, May 28-29, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood--Continued

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
405	7.5	0.00	605	4.0	0.00
410	7.7	0.00	610	4.0	0.00
415	7.7	0.01	615	3.9	0.00
420	6.8	0.00	620	3.5	0.00
425	5.7	0.00	625	3.3	0.00
430	5.1	0.00	630	3.2	0.00
435	4.8	0.00	635	3.0	0.00
440	4.8	0.00	640	3.1	0.00
445	4.4	0.00	645	3.0	0.00
450	4.7	0.00	650	3.0	0.00
455	4.4	0.00	655	3.0	0.00
500	4.6	0.00	700	3.1	0.00
505	4.5	0.00	705	3.2	0.00
510	4.3	0.00	710	3.2	0.00
515	3.8	0.00	715	3.0	0.00
520	4.8	0.00	720	3.2	0.00
525	4.8	0.00	725	3.1	0.00
530	4.4	0.00	730	3.2	0.00
535	4.5	0.00	735	3.2	0.00
540	4.3	0.00	740	3.6	0.00
545	4.3	0.00	745	3.8	0.00
550	4.3	0.00	750	3.9	0.00
555	4.1	0.00	755	3.6	0.00
600	4.1	0.00			



Table 153.--Rainfall-runoff data, June 2-3, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1855	<sup>1</sup> 0.70	0.05	2325	<sup>1</sup> 22	0.03
1900	<sup>1</sup> 61	0.24	2330	<sup>1</sup> 22	0.02
1905	<sup>1</sup> 63	0.10	2335	<sup>1</sup> 16	0.01
1910	<sup>1</sup> 72	0.03	2340	<sup>1</sup> 14	0.01
1915	<sup>1</sup> 75	0.00	2345	<sup>1</sup> 10	0.01
1920	<sup>1</sup> 22	0.00	2350	<sup>1</sup> 8.1	0.00
1925	<sup>1</sup> 30	0.00	2355	<sup>1</sup> 7.2	0.01
2215	<sup>1</sup> 0.46	0.01	2400	<sup>1</sup> 5.7	0.00
2240	<sup>1</sup> 0.46	0.01	5	<sup>1</sup> 5.6	0.01
2255	<sup>1</sup> 1.1	0.01	10	<sup>1</sup> 5.6	0.01
2300	<sup>1</sup> 1.6	0.01	20	<sup>1</sup> 5.4	0.01
2305	<sup>1</sup> 2.6	0.01	35	<sup>1</sup> 4.3	0.01
2310	<sup>1</sup> 5.2	0.02	110	<sup>1</sup> 1.9	0.01
2315	<sup>1</sup> 10	0.02	135	<sup>1</sup> 1.9	0.01
2320	<sup>1</sup> 17	0.04	200	<sup>1</sup> 1.9	0.01

<sup>1</sup>Some flow bypassed gage.

Table 154.--Rainfall-runoff data, June 3, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1425	<sup>1</sup> 6.4	0.15	1530	<sup>1</sup> 37	0.01
1430	<sup>1</sup> 52	0.24	1535	<sup>1</sup> 26	0.01
1435	<sup>1</sup> 59	0.18	1540	<sup>1</sup> 21	0.00
1440	<sup>1</sup> 66	0.14	1545	<sup>1</sup> 19	0.00
1445	<sup>1</sup> 77	0.06	1550	<sup>1</sup> 17	0.00
1450	<sup>1</sup> 67	0.05	1555	<sup>1</sup> 16	0.00
1455	<sup>1</sup> 46	0.02	1600	<sup>1</sup> 14	0.00
1500	<sup>1</sup> 60	0.03	1605	<sup>1</sup> 10	0.00
1505	<sup>1</sup> 46	0.02	1610	<sup>1</sup> 10.0	0.00
1510	<sup>1</sup> 49	0.03	1615	<sup>1</sup> 8.8	0.00
1515	<sup>1</sup> 43	0.02	1620	<sup>1</sup> 7.4	0.00
1520	<sup>1</sup> 48	0.01	1625	<sup>1</sup> 6.3	0.00
1525	<sup>1</sup> 47	0.00	1630	<sup>1</sup> 5.9	0.00

<sup>1</sup>Some flow bypassed gage.

Table 155.--Rainfall-runoff data, July 12,1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
2050	2.4	0.02	2120	9.1	0.01
2055	3.2	0.01	2125	8.1	0.01
2100	5.5	0.03	2130	7.7	0.01
2105	8.7	0.02	2135	7.2	0.00
2110	12	0.02	2140	5.9	0.00
2115	11	0.01	2300	1.7	0.01

Table 156.--Rainfall-runoff data, July 26, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1920	<sup>1</sup> 1.5	0.03	2045	<sup>1</sup> 11	0.02
1925	<sup>1</sup> 3.1	0.07	2050	<sup>1</sup> 10	0.00
1930	<sup>1</sup> 46	0.09	2055	<sup>1</sup> 8.8	0.00
1935	<sup>1</sup> 45	0.13	2100	<sup>1</sup> 6.4	0.00
1940	<sup>1</sup> 57	0.12	2125	<sup>1</sup> 2.9	0.01
1945	<sup>1</sup> 66	0.10	2205	<sup>1</sup> 2.5	0.01
1950	<sup>1</sup> 64	0.05	2210	<sup>1</sup> 2.8	0.01
1955	<sup>1</sup> 55	0.01	2245	<sup>1</sup> 3.4	0.01
2000	<sup>1</sup> 41	0.03	2250	<sup>1</sup> 4.3	0.01
2005	<sup>1</sup> 29	0.03	2315	<sup>1</sup> 4.3	0.05
2010	<sup>1</sup> 34	0.02	2320	<sup>1</sup> 19	0.02
2015	<sup>1</sup> 21	0.00	2325	<sup>1</sup> 21	0.01
2020	<sup>1</sup> 11	0.01	2330	<sup>1</sup> 11	0.00
2025	<sup>1</sup> 9.3	0.01	2335	<sup>1</sup> 8.0	0.01
2030	<sup>1</sup> 9.3	0.01	2340	<sup>1</sup> 7.7	0.01
2035	<sup>1</sup> 9.8	0.02	2345	<sup>1</sup> 7.5	0.00
2040	<sup>1</sup> 11	0.01	2350	<sup>1</sup> 6.6	0.00

<sup>1</sup> Some flow bypassed gage.

Table 157.--Rainfall-runoff data, August 9, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1205	1.6	0.01	2045	0.31	0.03
1210	1.5	0.02	2050	6.3	0.03
1215	0.39	0.02	2055	16	0.01
1220	2.0	0.01	2100	8.9	0.03
1225	4.4	0.01	2105	9.6	0.03
1505	1.5	0.01	2110	12	0.02
1510	1.5	0.01	2115	9.4	0.01
1515	1.2	0.01	2120	6.4	0.01
1615	1.1	0.01	2125	5.2	0.01
1625	0.62	0.03	2130	5.4	0.01
1630	6.3	0.01	2155	0.46	0.01
1635	9.9	0.00	2205	0.54	0.01
1930	1.8	0.01	2220	0.93	0.01
2005	1.5	0.01	2235	0.77	0.01
2015	1.0	0.01	2250	0.62	0.01
2030	0.66	0.01	2330	0.08	0.01

Table 158.--Rainfall-runoff data, August 12, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood

(Rainfall is reported in amounts measured during specified time  
increments; time increment is 5 minutes)

Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches	Time	Discharge, in ft <sup>3</sup> /s	Rainfall, in inches
1120	0.38	Not working	1145	3.4	Not working
1122	0.38		1147	3.0	
1127	0.75		1148	2.6	
1129	1.5		1152	2.3	
1132	2.3		1154	2.1	
1134	3.0		1155	1.9	
1135	3.4		1157	1.5	
1137	3.8		1200	1.1	
1140	3.8		1202	0.94	
1142	3.8		1204	0.94	
1143	3.8		1208	0.75	

## WATER-QUALITY DATA FOR DENVER REGIONAL URBAN RUNOFF PROGRAM

Water-quality data are presented for the following stations:

Station number and name	Table
06710225 Big Dry Creek tributary at Easter Street-----	159
06710610 Rooney Gulch at Rooney Ranch-----	160
06711585 Asbury Park Storm Drain-----	161
06711586 Asbury Park Storm Drain at Asbury Avenue-----	162
06711635 North Avenue Storm Drain at Denver Federal Center-----	163
06711637 North Avenue Storm Drain at Denver Federal Center North Avenue----	164
06713010 Cherry Knolls Storm Drain-----	165
06720420 Storm Drain at 116th Avenue and Claude Court-----	166
394236105042400 Villa Italia Storm Drain-----	167

Definitions of abbreviations used in the tables are:

0.7 UM-MF=0.7-micrometer membrane filter  
 BIOCHEM=biochemical  
 CFS=cubic foot per second  
 CARBON.=carbonaceous  
 COLS./100 ML=colonies per 100 milliliters  
 DEG.C=degree Celsius  
 DIS.=dissolved  
 DISSOLV=dissolved  
 MG/L=milligram per liter  
 ORG.=organic  
 ORTHO=orthophosphate  
 SUSP.=suspended  
 UG/L=microgram per liter  
 UMHOS=micromhos per centimeter at 25°C

Table 159.--Water-quality data for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

[E indicates estimated; K indicates nonideal colony count]

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	NITRO- GEN DIS- SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	OXYGEN DEMAND, BIOCHEM CARBON, 5 DAY (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, 20 DAY (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
MAR											
04...	1305	5.1	150	8.2	1.1	370	K1200	7.6	--	2340	.35
04...	1335	5.6	140	8.2	.95	190	--	8.1	--	736	.28
20...	1825	1.0	181	7.6	5.1	440	--	--	--	1430	1.70
20...	1855	1.0	94	7.7	2.5	190	--	--	--	462	.80
20-21	--	--	--	--	2.4	180	--	--	--	408	.71
21...	0835	.66	99	7.6	2.6	150	--	--	--	204	.67
21...	1000	.66	56	7.9	1.8	130	--	--	--	144	.44
21...	1030	1.8	52	7.9	1.4	200	--	--	--	346	.36
21...	1100	.93	56	7.8	1.6	130	--	--	--	260	.36
28-28	--	--	--	--	1.7	120	--	--	--	273	.39
29-29	--	--	--	--	1.6	56	--	--	--	124	.51
APR											
03...	1320	.71	61	7.8	1.1	66	--	--	--	208	.33
03-03	--	--	--	--	2.2	100	--	--	--	386	.79
MAY											
03...	1325	5.2	82	8.4	3.5	490	--	--	--	2110	.81
03...	1330	16	71	8.4	2.2	440	--	--	--	2220	.66
03...	1340	7.5	60	8.3	2.5	280	--	--	--	572	.76
03...	1345	3.2	61	8.5	2.2	450	--	--	--	1540	.77
03-03	0350	--	--	--	7.2	300	--	--	--	256	.87
03-03	1315	--	--	--	2.3	340	--	--	--	--	.36
09...	0445	.93	106	7.0	2.6	86	2300	--	--	205	.91
09...	0505	1.1	56	7.1	1.7	62	K1600	--	--	92	.51
09...	0525	1.3	40	7.2	1.3	38	K1600	--	--	73	.32
09...	0535	1.3	56	7.2	1.4	25	740	--	--	87	.25
09...	0545	.77	36	7.2	1.0	28	740	--	--	66	.22
09-09	--	--	--	--	2.0	57	--	--	--	96	.65
12-13	--	--	--	--	2.1	68	--	--	--	135	.57
17...	0605	.66	75	7.1	1.8	84	720	9.2	17	217	.46
17...	0635	1.3	43	7.3	1.9	31	K1000	--	--	86	.31
17...	0705	1.6	38	7.3	.90	38	K1600	5.6	10	90	.21
17...	0825	.71	49	7.3	1.1	130	K1300	--	--	49	.21
17...	0920	.66	55	7.3	.90	23	K1300	6.6	11	32	.16
17...	1430	.82	59	7.6	1.3	130	--	--	--	194	.29
17...	1440	2.3	42	7.3	1.1	120	--	--	--	286	.24
17...	1540	1.1	57	7.4	1.2	54	--	--	--	115	.30
17...	1640	1.8	55	7.5	.97	40	--	--	--	86	.24
17...	1740	1.2	65	7.4	1.1	38	--	--	--	44	.29
28...	0250	2.1	56	7.3	1.4	130	7400	7.2	13	350	.31
28...	0305	2.8	39	7.4	1.8	62	4800	5.0	9.2	62	.46
28...	0320	1.6	40	7.3	1.5	33	3800	4.4	5.8	58	.27



Table 159.--Water-quality data for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)
MAR										
04...	.040	.39	.660	.00	2.10	1.4	.66	2.90	.210	.260
04...	.040	.32	.550	.08	1.40	.77	.63	1.70	.180	.380
20...	.110	1.8	1.80	1.5	3.90	.60	3.3	.260	.240	.120
20...	.050	.85	.820	.78	3.00	1.4	1.6	.470	.100	.120
20-21	.050	.76	.690	.91	2.40	.80	1.6	.190	.090	.140
21...	.070	.74	.590	1.3	1.90	.00	1.9	.170	.090	.130
21...	.030	.47	.450	.85	1.50	.20	1.3	.130	.070	.110
21...	.030	.39	.420	.58	1.60	.60	1.0	.180	.070	.130
21...	.030	.39	.440	.76	3.20	2.0	1.2	.250	.080	.080
28-28	.030	.42	.640	.66	1.70	.40	1.3	.320	.090	.090
29-29	.020	.53	.460	.64	1.20	.10	1.1	.290	.160	.140
APR										
03...	.040	.37	.430	.32	1.10	.35	.75	.320	.080	.140
03-03	.030	.82	.520	.88	2.10	.70	1.4	.330	.100	.030
MAY										
03...	.040	.85	1.00	1.6	5.60	3.0	2.6	2.70	.270	.490
03...	.050	.71	.880	.62	7.80	6.3	1.5	2.30	.190	.400
03...	.030	.79	.710	.99	3.30	1.6	1.7	.980	.240	.320
03...	.040	.81	.760	.64	4.10	2.7	1.4	1.90	.280	.380
03-03	.030	.90	2.80	3.5	7.50	1.2	6.3	2.10	.900	1.60
03-03	.040	.40	.740	1.2	2.30	.40	1.9	.940	.240	.420
09...	.030	.94	.830	.87	2.00	.30	1.7	.400	.180	.000
09...	.020	.53	.780	.42	1.70	.50	1.2	.220	.160	.120
09...	.020	.34	.670	.33	1.30	.30	1.0	.200	.100	.090
09...	.010	.26	.610	.49	2.70	1.6	1.1	.180	.110	.090
09...	.010	.23	.630	.14	1.10	.33	.77	.170	.100	.080
09-09	.020	.67	.750	.55	1.60	.30	1.3	.210	.120	.120
12-13	.020	.59	.870	.63	1.80	.30	1.5	.290	.170	.000
17...	.050	.51	.440	.86	2.00	.70	1.3	.370	.170	.100
17...	.010	.32	.220	1.4	1.60	.00	1.6	.200	.130	.050
17...	.010	.22	.210	.47	.88	.20	.68	.150	.120	.060
17...	.010	.22	.210	.65	1.00	.14	.86	.200	.140	.090
17...	.010	.17	.180	.55	1.00	.27	.73	.190	.150	.040
17...	.020	.31	.250	.75	1.60	.60	1.0	.340	.110	.070
17...	.010	.25	.210	.61	1.80	.98	.82	.360	.080	.090
17...	.010	.31	.210	.65	.95	.09	.86	.250	.150	.130
17...	.010	.25	.180	.54	.85	.13	.72	.250	.160	.180
17...	.010	.30	.190	.62	.94	.13	.81	.270	.200	.170
28...	.010	.32	.480	.62	2.70	1.6	1.1	.570	.130	.120
28...	.010	.47	.610	.69	1.50	.20	1.3	.300	.180	.160
28...	.010	.28	.460	.74	1.20	.00	1.2	.260	.140	.140

Table 159.--Water-quality data for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)
MAR										
04...	6	100	67000	490	1900	800	76	10	--	--
04...	6	40	23000	380	710	320	36	8.5	--	--
20...	1	61	36000	470	1000	560	76	29	--	--
20...	1	22	12000	200	280	220	32	13	--	--
20-21	1	30	12000	190	300	220	43	14	1820	1705
21...	1	19	6800	170	200	160	30	14	--	--
21...	1	21	7300	180	200	160	22	7.6	--	--
21...	2	41	18000	340	470	310	31	6.4	--	--
21...	1	22	6800	140	180	140	22	8.3	--	--
28-28	1	26	7400	180	220	150	23	11	715	1715
29-29	0	12	3700	67	100	70	12	6.7	755	1840
APR										
03...	1	17	7500	93	200	100	21	9.9	--	--
03-03	1	28	11000	130	290	180	26	13	715	1425
MAY										
03...	4	170	63000	840	1700	820	86	26	--	--
03...	3	160	62000	790	1300	780	72	11	--	--
03...	1	56	25000	290	530	280	28	8.3	--	--
03...	1	100	47000	260	1200	370	41	9.5	--	--
03-03	1	80	16000	460	440	360	67	39	350	500
03-03	1	100	35000	460	830	470	53	14	1315	1405
09...	0	20	5000	77	160	100	20	16	--	--
09...	0	11	2200	43	70	60	12	11	--	--
09...	0	8	2100	37	60	50	6.5	5.1	--	--
09...	0	8	2100	34	60	50	7.3	5.1	--	--
09...	0	7	2000	26	60	30	6.4	4.9	--	--
09-09	0	9	1500	31	50	40	11	10	350	845
12-13	0	16	440	66	110	90	17	14	2000	50
17...	0	18	7000	88	180	140	22	13	--	--
17...	0	9	2600	48	70	80	6.6	6.6	--	--
17...	0	10	2700	45	70	80	8.2	4.7	--	--
17...	0	8	1900	29	60	50	7.7	5.5	--	--
17...	0	7	1300	26	40	40	9.5	5.7	--	--
17...	1	19	6500	200	170	180	21	8.2	--	--
17...	2	29	8100	220	210	180	21	6.1	--	--
17...	2	23	2900	78	70	70	12	6.0	--	--
17...	0	11	2600	47	60	70	9.5	5.5	--	--
17...	0	7	1500	38	40	50	9.3	6.1	--	--
28...	1	35	14000	220	320	230	38	10	--	--
28...	1	17	5900	99	140	90	12	6.4	--	--
28...	0	9	3100	31	80	50	15	4.6	--	--

Table 159.--Water-quality data for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	NITRO- GEN DIS- SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
MAY										
29...	0115	.99	73	7.3	2.3	130	K6300	220	.81	.040
29...	0235	.93	62	7.4	1.7	76	3400	241	.69	.020
29...	0250	2.7	45	7.4	2.0	46	4000	90	.60	.010
29...	0320	4.4	43	7.5	2.2	48	2200	190	.40	.010
29...	0405	1.9	60	7.4	1.5	37	K4000	37	.44	.010
JUN										
11...	2330	5.3	104	7.4	3.4	380	60000	824	.99	.110
12...	0015	15	54	7.5	2.1	170	11000	476	.67	.040
12...	0025	E26	57	7.6	2.2	98	K22000	350	.64	.030
12...	0045	4.2	70	7.5	1.9	61	K37000	241	.60	.040
12...	0100	1.1	139	7.4	2.4	66	K23400	113	.66	.040
12...	0135	1.1	107	7.4	1.9	62	K21000	57	.58	.040
JUL										
07-07	--	--	--	--	5.0	140	--	111	1.60	.340
17-17	--	--	--	--	--	78	--	243	--	--
26-26	--	--	--	--	2.2	66	--	141	.57	.020

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)
MAY										
29...	.85	.450	.95	1.90	.50	1.4	.350	.110	.090	0
29...	.71	.390	.61	1.70	.70	1.0	.360	.120	.130	0
29...	.61	.360	1.0	1.40	.00	1.4	.150	.110	.060	0
29...	.41	.450	1.4	2.00	.20	1.8	.360	.150	.180	0
29...	.45	.310	.69	1.40	.40	1.0	.240	.180	.180	0
JUN										
11...	1.1	1.00	1.3	2.80	.50	2.3	1.30	.230	.240	3
12...	.71	.720	.68	2.30	.90	1.4	.840	.140	.170	2
12...	.67	.790	.71	1.50	.00	1.5	.620	.180	.200	2
12...	.64	.610	.69	1.70	.40	1.3	.660	.280	.270	2
12...	.70	.570	1.1	2.00	.30	1.7	.610	.410	.360	2
12...	.62	.570	.73	1.50	.20	1.3	.460	.300	.250	2
JUL										
07-07	1.9	1.90	1.2	3.50	.40	3.1	.350	.270	.200	1
17-17	--	--	--	2.20	--	--	.500	--	.340	1
26-26	.59	.730	.87	1.80	.20	1.6	.320	.140	.200	1

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)
MAY									
29...	25	7800	180	180	170	30	14	--	--
29...	20	7900	120	220	130	13	8.5	--	--
29...	10	3300	50	80	60	8.1	5.0	--	--
29...	15	6700	64	170	90	9.6	4.3	--	--
29...	7	2200	23	60	30	14	6.5	--	--
JUN									
11...	51	25000	440	590	460	43	30	--	--
12...	45	25000	260	440	330	11	6.6	--	--
12...	31	16000	130	330	170	17	9.4	--	--
12...	19	11000	52	250	90	8.2	7.4	--	--
12...	13	4300	41	130	70	12	12	--	--
12...	11	2600	40	90	60	8.5	8.2	--	--
JUL									
07-07	19	4100	110	130	140	34	34	1615	1905
17-17	25	7900	100	200	140	2.4	--	1725	1850
26-26	14	5500	65	130	110	9.2	6.5	1950	2400

Table 160.--Water-quality data for station  
06710610 Rooney Gulch at Rooney Ranch, near Morrison

[K indicates nonideal colony count]

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	NITRO- GEN, DISSOLV (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	OXYGEN DEMAND, BIOCHEM CARBON, 5 DAY (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, 20 DAY (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
MAY											
16...	1415		1700	8.0	2.5	93	--	--	--	94	.57
17...	0815	.20	1550	8.0	.95	35	720	4.3	9.4	78	.09
17...	0845	.22	1190	8.2	1.2	33	620	--	--	41	.21
17...	0915	.22	1020	8.2	1.1	28	K120	3.1	8.7	54	.26
17...	1000	.22	889	8.2	.90	33	K360	--	--	84	.22
17...	1045	.14	872	8.1	.87	27	K380	3.3	7.3	90	.24
17...	1800	.20	1170	8.1	1.1	38	--	--	--	54	.28
17...	1845	.25	965	8.2	1.4	30	--	--	--	70	.27
17...	1945	.22	895	8.1	1.5	38	--	--	--	98	.37
17-17	--	--	--	--	1.1	32	--	--	--	85	.27
28-29	--	--	--	--	1.3	40	--	--	--	35	.19
JUN											
03...	1500	.10	704	7.7	2.1	140	8000	--	--	250	.17
03...	1600	.95	692	7.8	1.9	110	K3400	--	--	1060	.37
03...	1800	.09	714	7.5	3.3	59	K3000	--	--	612	

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)
MAY										
16...	.030	.60	.760	1.1	2.30	.40	1.9	.340	.180	.150
17...	.000	.09	.080	.78	1.30	.44	.86	.150	.060	.060
17...	.010	.22	.110	.89	1.00	.00	1.0	.110	.060	.050
17...	.010	.27	.090	.71	1.10	.30	.80	.130	.070	.060
17...	.010	.23	.060	.61	1.10	.43	.67	.140	.060	.050
17...	.010	.25	.060	.56	1.10	.48	.62	.150	.060	.060
17...	.010	.29	.110	.73	.90	.06	.84	.110	.030	.010
17...	.010	.28	.190	.91	1.30	.20	1.1	.130	.090	.010
17...	.010	.38	.120	.98	1.10	.00	1.1	.150	.060	.020
17-17	.010	.28	.080	.69	1.30	.53	.77	.140	.070	.060
28-29	.000	.19	.080	1.0	1.20	.10	1.1	.120	.050	.100
JUN										
03...	.030	.20	.120	1.8	4.70	2.8	1.9	.860	.270	.260
03...	.030	.40	.110	1.4	3.40	1.9	1.5	.710	.230	.110
03...	.030		.040	.83	2.20	1.3	.87	.430	.120	.090

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)
MAY										
16...	0	13	2900	98	110	150	19	12	--	--
17...	<1	8	2500	13	790	40	39	29	--	--
17...	0	6	1300	5	450	20	28	20	--	--
17...	<1	7	2400	4	440	20	14	14	--	--
17...	0	8	2700	7	410	40	29	17	--	--
17...	0	9	2900	8	400	120	13	13	--	--
17...	1	5	1400	9	390	60	13	6.6	--	--
17...	1	5	2000	10	330	30	18	16	--	--
17...	1	7	3000	12	340	20	23	13	--	--
17-17	0	10	2600	8	430	60	18	7.4	515	1250
28-29	0	7	1300	5	640	20	11	9.8	1025	1210
JUN										
03...	0	61	30000	92	1300	190	25	12	--	--
03...	0	60	32000	93	1300	210	27	12	--	--
03...	0	42	22000	38	750	110	11	11	--	--

Table 161.--Water-quality data for station  
06711585 Asbury Park Storm Drain at Denver

[K indicates nonideal colony count]

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	NITRO- GEN, DISSOLV (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	OXYGEN DEMAND, BIOCHEM 5 DAY (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
MAR										
04...	1300	1.9	2100	7.5	1.3	--	K1200	9.4	305	.29
04...	1315	1.9	1700	7.8	2.2	210	K800	--	296	1.20
04...	1330	2.0	1500	7.5	1.1	210	K300	--	270	.29
04...	1430	1.8	825	7.4	1.9	130	K340	--	180	.62
04...	1500	1.0	810	7.3	1.9	290	--	8.8	108	.60
MAY										
03...	2100	5.5	124	7.7	3.7	330	3600	--	544	.65
03...	2110	9.5	81	7.8	2.9	390	3200	--	608	.77
03...	2125	5.2	80	7.6	2.1	330	--	--	109	.73
03...	2140	7.5	101	7.7	2.2	620	K13600	--	54	.86
03-03	--	--	--	--	3.0	410	--	--	232	.73
03-04	--	--	--	--	3.5	310	--	--	788	1.00

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS- (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)
MAR										
04...	.040	.33	.510	.48	1.40	.41	.99	.590	.130	.430
04...	.040	1.2	.500	.50	2.80	1.8	1.0	.590	.150	.140
04...	.040	.33	.460	.35	1.40	.59	.81	.550	.160	.140
04...	.040	.66	.420	.78	--	.00	1.2	.390	.160	.130
04...	.040	.64	.430	.87	1.90	.60	1.3	.330	.150	.130
MAY										
03...	.090	.74	.910	2.1	3.00	.00	3.0	--	.200	.280
03...	.050	.82	.720	1.4	4.70	2.6	2.1	1.20	.150	.270
03...	.040	.77	.640	.66	3.30	2.0	1.3	.870	.170	.440
03...	.050	.91	.510	.79	4.60	3.3	1.3	2.00	.270	1.80
03-03	.030	.76	.860	1.3	7.20	5.0	2.2	2.60	.310	.390
03-04	.060	1.1	.650	1.8	8.10	5.7	2.4	1.20	.260	.560

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)
MAR										
04...	6	40	10000	540	300	290	34	6.6	--	--
04...	6	30	10000	480	350	270	44	7.6	--	--
04...	2	30	8000	460	250	230	28	7.8	--	--
04...	6	29	5600	330	160	160	21	6.5	--	--
04...	6	20	4700	310	130	140	19	7.1	--	--
MAY										
03...	2	55	17000	470	420	360	41	18	--	--
03...	2	70	21000	560	520	410	72	12	--	--
03...	1	43	15000	320	370	270	32	10	--	--
03...	1	100	38000	450	770	420	46	9.1	--	--
03-03	6	130	46000	840	1100	650	130	15	1325	1430
03-04	1	90	30000	430	660	380	21	11	1625	100

Table 162.--Water-quality data for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

[K indicates nonideal colony count]

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	NITRO- GEN, DISSOLV (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	OXYGEN DEMAND, BIOCHEM CARBON, 5 DAY (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, 20 DAY (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
MAR											
04...	1300	1.9	2300	7.4	2.1	330	K900	14	--	424	.53
04...	1315	1.9	1760	7.3	1.7	290	K1700	--	--	244	.25
04...	1330	2.1	1640	7.3	1.7	170	K1200	--	--	270	.55
04...	1400	1.9	1200	7.3	1.7	120	K300	16	--	216	.50
04...	1430	1.8	845	7.3	1.8	130	K280	16	--	196	.52
04-04	--	--	--	--	1.4	27	--	--	--	332	.85
20...	1800	1.6	234	7.8	4.4	290	--	--	--	376	1.50
20...	1810	10	126	7.6	3.7	290	--	--	--	474	1.20
21...	0935	1.5	154	7.6	2.5	96	--	--	--	140	.74
21...	1030	1.8	142	7.6	1.7	96	--	--	--	162	.57
MAY											
27...	2210	41	86	7.7	2.9	400	--	--	--	920	.67
28...	1405	1.4	362	7.8	2.5	280	38000	19	41	884	1.10
28...	1410	26	59	8.2	1.7	360	K120000	13	31	760	.54
28...	1415	60	48	8.0	2.2	200	24000	12	31	968	.59
28...	1423	27	76	7.9	2.2	320	K92000	8.4	19	2460	.87
28...	1454	.63	321	7.6	3.0	210	K31000	8.6	19	1770	1.60
28-28	--	--	--	--	2.0	280	--	--	--	1470	.87
28-29	--	--	--	--	2.4	71	--	--	--	264	.90
JUL											
26-27	--	--	--	--	2.9	150	--	--	--	224	1.10

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHOPHOS- PHATE TOTAL (MG/L AS P)
MAR										
04...	.030	.56	.490	1.0	2.90	1.4	1.5	.490	.130	.110
04...	.070	.32	.440	.96	1.70	.30	1.4	1.50	.100	.090
04...	.030	.58	.460	.64	1.70	.60	1.1	.510	.150	.160
04...	.040	.54	.450	.75	1.90	.70	1.2	.440	.160	.130
04...	.030	.55	.410	.79	1.40	.20	1.2	.380	.120	.130
04-04	.030	.88	.450	.04	1.30	.81	.49	.610	.150	.350
20...	.110	1.6	1.40	1.4	3.10	.30	2.8	.620	.220	.050
20...	.090	1.3	1.20	1.2	4.00	1.6	2.4	.420	.210	.090
21...	.070	.81	.570	1.1	2.50	.80	1.7	.380	.170	.120
21...	.040	.61	.410	.70	1.60	.50	1.1	.320	.150	.140
MAY										
27...	.040	.71	.730	1.5	7.60	5.4	2.2	1.90	.180	.160
28...	.030	1.1	.390	1.0	7.40	6.0	1.4	1.60	.110	.050
28...	.020	.56	.380	.72	7.40	6.3	1.1	2.10	.140	.110
28...	.020	.61	.370	1.2	3.40	1.8	1.6	.510	.150	.120
28...	.030	.90	.290	1.0	3.10	1.8	1.3	1.60	.260	.270
28...	.030	1.6	.340	1.1	6.60	5.2	1.4	2.70	.390	.360
28-28	.030	.90	.360	.74	5.50	4.4	1.1	.900	.190	.190
28-29	.040	.94	.330	1.2	1.60	.10	1.5	.700	.190	.270
JUL										
26-27	.050	1.1	.990	.81	2.70	.90	1.8	.600	.230	.300

Table 162.--Water-quality data for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)
MAR										
04...	6	40	13000	670	390	380	44	8.0	--	--
04...	6	30	9400	480	280	270	33	7.8	--	--
04...	6	30	8900	440	260	260	27	7.9	--	--
04...	1	30	6800	400	200	200	23	7.0	--	--
04...	1	17	6000	280	170	170	19	--	--	--
04-04	12	30	7700	440	240	230	29	7.7	1210	1550
20...	1	35	12000	330	350	280	48	34	--	--
20...	1	43	15000	440	420	350	44	24	--	--
21...	0	16	4900	110	120	110	22	14	--	--
21...	0	12	6000	120	150	120	12	9.0	--	--
MAY										
27...	1	70	22000	550	630	450	54	25	--	--
28...	0	75	30000	570	800	570	42	11	--	--
28...	0	110	42000	900	970	770	57	7.9	--	--
28...	0	70	25000	490	640	370	44	7.7	--	--
28...	2	180	82000	760	1900	840	76	13	--	--
28...	0	130	61000	540	1400	550	51	11	--	--
28-28	0	120	52000	670	1300	700	29	7.2	1400	1505
28-29	0	35	15000	170	320	150	18	4.9	2140	420
JUL										
26-27	1	32	9000	210	280	270	23	19	1920	20.00

Table 163.--Water-quality data for station  
06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood

[K indicates nonideal colony count]

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	NITRO- GEN, DISSOLV (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	OXYGEN DEMAND, BIOCHEM CARBON, 5 DAY (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
NOV 13-13	--	--	1110	7.3	--	400	--	--	139	1.50
FEB										
21...	0145	.51	1174	7.4	4.4	400	--	--	436	1.10
21...	0215	.44	962	7.5	2.6	320	--	--	368	1.10
21...	0245	.38	855	7.5	2.4	250	--	--	244	1.10
21...	0315	.36	800	7.4	4.4	210	--	--	192	1.00
21...	1005	.27	2558	7.4	2.5	380	--	--	520	1.00
21...	1050	.56	974	7.6	2.0	380	--	--	476	.74
21...	1150	.56	801	7.7	1.6	360	--	--	104	.72
21...	1320	.29	1568	7.5	4.4	230	--	--	380	1.30
21-21	--	--	--	--	3.8	260	--	--	264	1.00
MAR										
03-03	--	--	--	--	3.3	310	K1100	--	380	1.30
04...	1035	.29	640	7.7	1.2	210	K140	14	348	.34
04...	1105	.82	940	7.6	1.3	440	K900	--	748	.28
04...	1205	1.8	760	7.7	1.2	360	K280	11	636	.25
04...	1335	1.4	760	7.8	1.8	330	K600	--	715	.30
04...	1605	.76	370	7.6	1.1	130	K140	7.8	302	.22
04...	1805	.34	740	7.4	1.2	120	K380	3.3	192	.77
05-05	--	--	--	--	1.6	120	--	--	16	.39
21-21	--	--	--	--	2.4	190	--	--	392	.75
MAY										
03...	--	--	--	--	3.4	310	K600	--	484	1.10
03-03	--	--	--	--	3.6	330	--	--	169	1.00
03-03	0150	--	--	--	4.0	280	--	--	--	1.20
05-05	--	--	--	--	5.0	460	--	--	568	--
09-09	--	--	--	--	2.4	100	--	--	215	.73
16-16	--	--	--	--	4.3	240	--	--	354	1.00
17-18	--	--	--	--	2.0	79	--	--	184	.54
28-28	--	--	--	--	2.9	240	--	--	548	.90
28-29	--	--	--	--	2.1	160	--	--	392	.74
JUN										
02...	2325	2.6	340	7.8	5.5	520	K1800	--	628	2.10
02...	2340	3.8	259	8.0	2.6	350	3500	--	796	1.70
03...	0025	1.5	54	8.6	1.7	89	K1700	--	504	.55
03...	0225	.30	135	8.2	2.2	86	--	--	280	.81
JUL										
02-02	--	--	--	--	--	300	--	--	440	--
15...	1930	4.1	211	7.3	--	--	--	--	2560	--
15...	1935	11	104	7.6	3.9	420	--	--	1610	1.10
15...	1950	2.6	95	7.8	3.7	210	--	--	892	1.20
15...	2050	.30	214	7.7	3.7	140	--	--	985	1.60
22-22	--	--	--	--	12	540	--	--	504	2.60
26-27	--	--	--	--	2.4	160	--	--	748	.95



Table 163.--Water-quality data for station  
06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)
NOV 13-13	.090	1.6	1.50	--	4.90	--	--	--	.280	.210
FEB 21...	.070	1.2	1.20	2.0	3.90	.70	3.2	.650	.220	.410
21...	.050	1.1	1.10	.40	3.80	2.3	1.5	.490	.210	.360
21...	.050	1.1	.990	.31	3.70	2.4	1.3	.420	.200	.320
21...	.060	1.1	1.00	2.3	3.70	.40	3.3	.460	.230	.330
21...	.100	1.1	1.20	.20	4.30	2.9	1.4	.520	.220	.260
21...	.070	.81	.800	.40	1.30	.10	1.2	.400	.190	.230
21...	.070	.79	.850	.00	3.20	2.4	.85	.410	.190	.210
21...	.100	1.4	.800	2.2	3.80	.80	3.0	.570	.280	.240
21-21	.060	1.1	1.10	1.6	3.20	.50	2.7	.420	.250	.310
MAR 03-03	.100	1.4	1.00	.90	2.00	.10	1.9	.570	.270	.270
04...	.050	.39	.450	.39	1.90	1.1	.84	.470	.160	.110
04...	.040	.32	.430	.57	1.70	.70	1.0	.910	.120	.490
04...	.030	.28	.460	.42	.98	.10	.88	.820	.120	.150
04...	.030	.33	.420	1.1	2.30	.80	1.5	.990	.250	.410
04...	.030	.25	.330	.56	1.20	.31	.89	.420	.120	.260
04...	.050	.82	.350	.00	1.50	1.2	.35	.430	.190	.200
05-05	.060	.45	.340	.76	2.20	1.1	1.1	.350	.120	.130
21-21	.060	.81	.460	1.1	1.90	.30	1.6	.310	.090	.120
MAY 03...	.050	1.1	.710	1.6	3.10	.80	2.3	.680	.140	.310
03-03	.060	1.1	1.10	1.4	3.40	.90	2.5	.600	.210	.310
03-03	.030	1.2	1.20	1.6	3.30	.50	2.8	.610	.260	.420
05-05	--	2.0	--	--	4.90	1.9	3.0	1.80	.460	.530
09-09	.030	.76	.720	.88	3.00	1.4	1.6	.430	.150	.000
16-16	.090	1.1	.800	2.4	4.30	1.1	3.2	.690	.210	.150
17-18	.020	.56	.270	1.1	1.60	.20	1.4	.300	.120	.080
28-28	.040	.94	.450	1.6	3.80	1.8	2.0	.660	.090	.000
28-29	.040	.78	.320	.98	2.50	1.2	1.3	.530	.090	.020
JUN 02...	.130	2.2	1.20	2.1	7.10	3.8	3.3	.150	.120	.030
02...	.130	1.8	.740	.06	3.00	2.2	.80	.870	.090	.160
03...	.010	.56	.300	.80	1.80	.70	1.1	.540	.100	.230
03...	.020	.83	.250	1.2	1.40	.00	1.4	.360	.110	.120
JUL 02-02	--	--	--	--	7.30	--	--	.510	--	.280
15...	--	--	--	--	18.0	--	--	1.00	--	.630
15...	.040	1.1	1.50	1.3	2.90	.10	2.8	2.10	.280	.400
15...	.040	1.2	1.50	1.0	2.70	.20	2.5	1.30	.270	.380
15...	.090	1.7	.760	1.2	2.50	.50	2.0	.860	.200	.240
22-22	.190	2.8	5.80	3.1	12.0	3.4	8.9	.990	.480	.110
26-27	.050	1.0	.730	.67	2.50	1.1	1.4	.740	.130	.500

Table 163.--Water-quality data for station  
06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOVERABLE (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)
NOV 13-13	3	80	17000	530	420	610	--	--	355	155
FEB 21...	3	46	17000	680	490	920	--	--	--	--
21...	6	39	12000	530	380	640	--	--	--	--
21...	2	32	10000	390	330	520	--	--	--	--
21...	2	25	8000	290	280	650	--	--	--	--
21...	7	46	16000	610	530	750	--	--	--	--
21...	3	45	17000	560	470	700	--	--	--	--
21...	3	47	18000	670	470	650	--	--	--	--
21...	2	32	14000	290	350	700	--	--	--	--
21-21	2	35	12000	410	320	530	--	--	100	515
MAR 03-03	6	50	17000	450	440	720	65	37	1040	1655
04...	2	40	12000	420	310	420	42	13	--	--
04...	6	70	21000	770	580	730	72	11	--	--
04...	4	60	21000	630	520	680	49	8.4	--	--
04...	6	70	24000	680	590	650	53	11	--	--
04...	1	30	9400	370	220	320	25	8.6	--	--
04...	1	30	8400	180	190	240	31	13	--	--
05-05	13	22	8800	200	200	250	26	13	930	1815
21-21	1	38	20000	270	390	330	41	13	840	2110
MAY 03...	1	80	21000	320	430	440	51	34	2200	2400
03-03	1	70	14000	410	370	440	66	27	1320	1445
03-03	1	150	11000	340	320	720	65	47	150	705
05-05	2	90	23000	430	510	580	57	39	1545	1840
09-09	0	33	7300	170	180	210	27	15	410	1335
16-16	2	60	15000	270	340	340	73	34	1025	1635
17-18	1	24	7200	80	140	120	17	7.5	505	600
28-28	0	85	21000	260	470	400	76	66	1345	1520
28-29	0	50	20000	190	370	260	43	14	2020	710
JUN 02...	3	140	35000	560	740	910	13	5.0	--	--
02...	3	80	31000	410	630	540	48	28	--	--
03...	1	50	20000	170	330	180	16	6.0	--	--
03...	2	31	15000	92	230	150	13	13	--	--
JUL 02-02	2	56	14000	270	50	50	23	23	1535	2255
15...	4	400	76000	1100	2200	1900	100	44	--	--
15...	2	130	40000	620	1100	900	22	17	--	--
15...	1	100	33000	240	580	460	38	14	--	--
15...	0	90	37000	91	530	270	31	24	--	--
22-22	1	110	21000	340	570	610	110	73	1650	1815
26-27	0	100	28000	250	560	430	28	22	1900	210

Table 163.--Water-quality data for station  
06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	NITROGEN, DISSOLV (MG/L AS N)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)
AUG									
12-12	--	--	4.8	330	512	1.50	.180	1.7	.780
12-13	--	--	.80	180	532	.06	.030	.09	.370
16-16	--	--	5.8	--	282	1.90	.180	2.1	1.00
29-29	397	7.8	6.9	430	342	2.40	.160	2.6	1.30
31-31	--	--	6.2	620	76	2.30	.150	2.4	1.70

DATE	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	CADMIUM, TOTAL RECOVERABLE (UG/L AS CD)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)
AUG									
12-12	2.3	4.60	1.5	3.1	1.30	.000	.150	1	90
12-13	.34	2.90	2.2	.71	.720	.000	.140	1	64
16-16	2.7	6.10	2.4	3.7	.570	.280	.080	0	100
29-29	3.0	6.50	2.2	4.3	.710	.190	.180	2	60
31-31	2.1	9.20	5.4	3.8	.900	.280	.220	3	100

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	STARTING TIME (2400 HOURS)	ENDING TIME (2400 HOURS)
AUG								
12-12	16000	280	410	470	94	52	830	1250
12-13	18000	110	420	330	22	21	2310	300
16-16	15000	240	340	430	110	27	2000	2215
29-29	13000	300	470	480	110	56	1920	1955
31-31	21000	420	680	790	99	67	1720	1830

Table 164.--Water-quality data for station 06711637  
North Avenue Storm Drain at Denver Federal Center North Avenue, at Lakewood

[K indicates nonideal colony count]

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	NITRO- GEN, DISSOLV (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	OXYGEN DEMAND, BIOCHEM CARBON. 5 DAY (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
FEB										
21-21	--	--	985	7.7	3.8	300	--	--	324	1.10
MAR										
03-03	--	--	--	--	2.7	340	--	--	592	.76
04...	1125	.29	870	8.0	1.3	440	K1200	22	1330	.64
04...	1230	1.6	890	8.0	.80	390	K1000	15	950	.35
04...	1400	1.2	610	7.9	1.1	220	K1200	--	776	.25
04...	1605	.86	400	7.8	.77	77	K100	8.8	388	.24
04...	1700	.70	740	7.4	1.9	180	K1100	8.3	212	.70
05-05	--	--	--	--	1.5	120	--	--	292	.36
21-21	--	--	--	--	2.5	150	--	--	368	.64
28-28	--	--	--	--	1.3	140	--	--	280	.33
APR										
19...	1635	4.2	1120	7.2	--	1700	--	--	45	--
19...	1655	1.2	292	7.5	14	330	--	--	542	1.90
19...	1825	1.1	174	7.6	11	200	--	--	270	2.20
19...	1925	1.2	134	7.6	3.9	180	K200	--	100	1.10
19...	2055	.58	146	7.9	4.0	110	K200	--	218	.96
19...	2250	.66	178	7.8	--	150	--	--	338	--
JUN										
02...	2345	2.0	65	8.6	1.8	200	K1500	--	728	.62
02...	2400	2.1	60	8.7	1.3	87	2200	--	480	.62
03...	0015	1.8	81	8.5	2.3	83	K1200	--	476	.66
03...	0035	1.2	90	8.5	1.9	84	K1900	--	356	.64
JUL										
02...	2125	.12	196	7.4	--	400	--	--	700	--
02...	2130	.16	147	7.4	--	230	--	--	450	--
02...	2215	.10	153	7.6	--	140	--	--	300	--
15...	1935	1.0	170	7.6	5.4	--	--	--	3000	1.40
15...	1950	3.6	96	7.9	3.6	190	--	--	640	1.10
15...	2005	1.6	106	7.9	3.6	150	--	--	535	1.20
15...	2035	.66	135	7.9	3.5	140	--	--	885	1.30
15...	2130	17	235	7.7	4.4	200	--	--	640	1.70
22...	1705	.09	392	7.6	7.5	240	--	--	144	1.80
22...	1710	.15	402	7.4	11	810	--	--	472	2.80
22...	1720	.15	327	7.4	10	790	--	--	428	2.20
22...	1730	.13	290	7.4	9.8	450	--	--	424	2.60
22...	1755	.10	250	7.5	11	350	--	--	264	2.80
AUG										
12...	0915	.18	280	7.8	4.7	300	--	--	232	1.70
12...	1130	.38	320	7.8	3.0	380	--	--	1000	.40
12...	1135	.94	145	8.0	4.2	460	--	--	1070	1.40
12...	1205	.42	135	8.1	2.9	200	--	--	472	.85
12...	1235	.17	125	8.0	2.6	170	--	--	516	.81
16...	2030	.18	688	8.0	3.3	--	--	--	66	2.70

Table 164.--Water-quality data for station 06711637  
North Avenue Storm Drain at Denver Federal Center North Avenue, at Lakewood--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)
FEB										
21-21	.070	1.2	1.10	1.5	3.00	.40	2.6	.590	.390	.460
MAR										
03-03	.070	.83	.660	1.2	3.30	1.4	1.9	.790	.250	.290
04...	.050	.69	.450	.15	3.30	2.7	.60	2.40	.200	.250
04...	.040	.39	.410	.00	1.90	1.5	.41	1.80	.150	.170
04...	.030	.28	.350	.45	2.40	1.6	.80	.930	.140	.210
04...	.030	.27	.370	.13	1.30	.80	.50	.590	.120	.260
04...	.030	.73	.350	.85	1.40	.20	1.2	.430	.170	.120
05-05	.060	.42	.320	.78	1.40	.30	1.1	.400	.130	.150
21-21	.050	.69	.320	1.5	1.90	.10	1.8	.310	.110	.190
28-28	.030	.36	.430	.50	1.70	.77	.93	.370	.070	.090
APR										
19...	.210	--	.760	26	27.0	.00	27	--	--	--
19...	.000	1.9	.020	12	12.0	.00	12	2.50	1.70	1.90
19...	.000	2.2	.010	9.1	9.10	.00	9.1	--	1.70	1.30
19...	.040	1.1	1.50	1.3	2.80	.00	2.8	1.30	.440	.610
19...	.040	1.0	1.30	1.7	3.00	.00	3.0	.600	.360	.450
19...	--	--	--	--	2.90	.00	--	.760	.310	--
JUN										
02...	.010	.63	.280	.92	1.50	.30	1.2	.560	.110	.100
02...	.010	.63	.280	.35	1.30	.67	.63	.490	.090	.050
03...	.020	.68	.280	1.3	1.60	.00	1.6	.480	.100	.000
03...	.020	.66	.270	.93	1.70	.50	1.2	.470	.120	.050
JUL										
02...	--	--	--	--	7.80	--	--	1.00	--	.290
02...	--	--	--	--	4.70	--	--	.900	--	.360
02...	--	--	--	--	2.70	--	--	.430	--	.280
15...	.070	1.5	2.20	1.7	11.0	7.1	3.9	2.90	.330	.620
15...	.040	1.1	1.30	1.2	3.00	.50	2.5	.990	.280	.420
15...	.050	1.2	1.20	1.2	2.50	.10	2.4	.810	.250	.420
15...	.050	1.3	1.10	1.1	2.90	.70	2.2	.910	.220	.320
15...	.150	1.8	.880	1.7	3.20	.60	2.6	.740	.250	.330
22...	.190	2.0	3.70	1.8	9.90	4.4	5.5	.570	.340	.050
22...	.210	3.0	6.40	1.8	11.0	2.8	8.2	1.00	.560	.950
22...	.260	2.5	3.80	3.3	--	.00	6.8	.840	.390	.090
22...	.190	2.8	3.40	3.6	9.00	2.0	7.0	.720	.410	.170
22...	.180	3.0	5.50	2.0	8.60	1.1	7.5	--	.650	.030
AUG										
12...	.160	1.9	.720	2.1	4.20	1.4	2.8	.350	.000	.220
12...	.040	.44	.160	2.4	7.10	4.5	2.6	.330	.000	.140
12...	.200	1.6	.780	1.8	6.90	4.3	2.6	3.50	.000	.160
12...	.120	.97	.620	1.3	2.80	.90	1.9	.880	.000	.150
12...	.120	.93	.490	1.2	2.50	.80	1.7	.550	.000	.120
16...	.150	2.8	.480	.00	3.00	2.5	.48	.350	.080	.070

Table 164.--Water-quality data for station 06711637  
North Avenue Storm Drain at Denver Federal Center North Avenue, at Lakewood--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)
FEB										
21-21	3	41	13000	490	360	630	--	--	100	515
MAR										
03-03	3	70	23000	580	550	810	66	29	1045	1615
04...	6	130	54000	800	1200	1300	100	11	--	--
04...	5	20	33000	190	850	880	66	9.5	--	--
04...	6	70	28000	550	700	760	48	10	--	--
04...	6	90	15000	400	360	710	34	7.8	--	--
04...	6	30	11000	270	240	280	27	11	--	--
05-05	1	29	9300	150	210	240	27	13	940	1815
21-21	1	29	16000	170	300	270	35	12	910	1920
28-28	2	31	8600	180	230	400	25	10	655	2130
APR										
19...	6	200	52000	1000	1300	1600	150	47	--	--
19...	1	80	22000	490	530	600	43	17	--	--
19...	0	33	11000	230	250	290	31	20	--	--
19...	0	28	10000	180	210	240	24	15	--	--
19...	0	27	11000	100	240	240	19	12	--	--
19...	0	40	18000	170	300	300	25	16	--	--
JUN										
02...	1	70	27000	260	500	340	31	7.4	--	--
02...	3	42	18000	160	330	180	9.2	7.1	--	--
03...	2	35	17000	99	300	150	7.4	5.9	--	--
03...	2	37	18000	96	290	150	17	9.4	--	--
JUL										
02...	2	90	22000	510	60	60	--	47	--	--
02...	1	57	17000	400	50	40	49	26	--	--
02...	0	29	11000	95	30	20	51	36	--	--
15...	3	350	62000	900	1700	1700	--	30	--	--
15...	1	80	25000	200	480	390	25	17	--	--
15...	1	60	17000	130	350	270	23	15	--	--
15...	2	80	28000	120	460	300	25	22	--	--
15...	1	60	21000	98	370	300	31	24	--	--
22...	1	44	6000	140	210	230	46	44	--	--
22...	1	150	20000	300	490	610	110	28	--	--
22...	1	110	16000	320	490	530	143	82	--	--
22...	1	60	14000	250	420	460	100	73	--	--
22...	1	47	9700	180	310	290	170	93	--	--
AUG										
12...	1	40	9000	230	220	290	72	72	--	--
12...	1	94	20000	430	550	600	110	64	--	--
12...	1	140	39000	580	840	880	130	43	--	--
12...	1	27	18000	110	360	340	61	20	--	--
12...	1	40	17000	130	400	300	34	18	--	--
16...	1	38	3900	56	120	140	40	24	--	--

Table 164.--Water-quality data for station 06711637  
North Avenue Storm Drain at Denver Federal Center North Avenue, at Lakewood--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	NITRO- GEN, DISSOLV (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
AUG										
16...	2045	.17	366	7.8	6.3	--	164	2.10	.210	2.3
16...	2155	.18	350	7.7	5.8	--	162	2.00	.260	2.3
16...	2210	.17	261	7.7	4.6	--	292	1.50	.210	1.7
29...	1930	.54	488	7.6	6.8	390	398	2.40	.230	2.6
29...	1935	.62	360	7.6	7.9	500	482	2.80	.220	3.0
29...	1940	.58	316	7.6	7.8	500	358	2.70	.160	2.9
29...	1950	.38	302	7.6	6.4	410	234	2.50	.150	2.6
29...	2005	.22	298	7.6	7.4	380	174	2.30	.180	2.5
29-29	--	--	376	7.7	6.9	420	284	2.50	.190	2.7
31...	1745	.83	508	7.6	7.2	340	356	2.70	.160	2.9
31...	1750	1.1	283	7.5	6.9	500	584	2.50	.150	2.6
31...	1805	.90	218	7.6	5.9	340	348	2.40	.150	2.5
31...	1820	.68	214	7.7	6.5	270	248	2.00	.150	2.1

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS- (MG/L AS N)	PHOS- PHORUS, ORGANIC TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHOPHOS- PHATE TOTAL (MG/L AS P)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
AUG									
16...	1.20	2.8	5.60	1.6	4.0	.420	.290	.070	0
16...	.900	2.6	4.40	.90	3.5	.390	.230	.070	1
16...	.810	2.1	3.90	1.0	2.9	.410	.130	.070	0
29...	1.30	2.9	7.10	2.9	4.2	.720	.320	.280	1
29...	1.70	3.2	4.40	.00	4.9	.620	.130	.170	3
29...	1.70	3.2	4.00	.00	4.9	.570	.390	.160	2
29...	1.60	2.2	3.60	.00	3.8	.450	.070	.160	3
29...	1.40	3.5	5.50	.60	4.9	.330	.130	.140	2
29-29	1.30	2.9	6.60	2.4	4.2	.690	.060	.150	3
31...	1.00	3.3	7.80	3.5	4.3	.520	.200	.280	2
31...	1.50	2.8	7.80	3.5	4.3	.590	.130	.250	2
31...	1.70	1.7	6.10	2.7	3.4	.470	.130	.310	1
31...	1.30	3.1	4.30	.00	4.4	.370	.320	.180	2

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOVERABLE (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)
AUG									
16...	44	6800	120	190	240	77	58	--	--
16...	92	8500	140	210	290	77	61	--	--
16...	44	10000	180	260	380	89	63	--	--
29...	60	11000	200	430	460	110	74	--	--
29...	50	16000	260	520	540	140	100	--	--
29...	45	13000	200	430	440	140	110	--	--
29...	30	7800	240	330	320	120	92	--	--
29...	50	6300	180	270	250	110	89	--	--
29-29	70	8500	220	360	370	110	93	1905	2030
31...	60	9400	280	370	420	79	52	--	--
31...	100	19000	320	570	640	160	67	--	--
31...	53	12000	280	330	340	82	55	--	--
31...	50	11000	220	290	280	63	60	--	--

Table 165.--Water-quality data for station  
06713010 Cherry Knolls Storm Drain at Denver

[K indicates nonideal colony count]

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	NITRO- GEN, DISSOLV (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	OXYGEN DEMAND, BIOCHEM 5 DAY (MG/L)	OXYGEN DEMAND, BIOCHEM 20 DAY (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
MAR											
29-29	--	--	--	--	1.7	73	--	--	--	91	.55
APR											
03...	0710	.06	267	7.1	5.1	280	--	--	--	280	2.20
03...	0910	.15	139	6.4	2.2	69	--	--	--	134	.86
03...	0940	.27	96	6.5	1.8	44	--	--	--	53	.60
03...	1040	.06	74	6.7	1.5	31	--	--	--	25	.55
03-03	--	--	--	--	1.6	65	--	--	--	96	.55
MAY											
03...	1330	1.2	111	7.7	3.7	260	--	--	--	368	.95
03...	1340	7.1	53	7.6	2.9	330	--	--	--	340	.78
03...	1350	1.6	78	8.1	2.5	250	--	--	--	318	.77
03...	1355	7.0	44	8.2	2.6	270	--	--	--	980	.63
03...	1400	13	--	--	1.9	510	--	--	--	824	.62
03...	1415	1.2	--	--	2.9	450	--	--	--	--	.93
12...	2020	.06	234	6.7	5.5	270	K8800	--	--	183	2.20
12...	2105	1.2	55	6.8	2.2	47	4700	--	--	44	.58
12...	2135	.39	50	6.4	1.7	40	K3000	--	--	23	.36
12...	2150	1.4	43	6.6	1.9	42	K2400	--	--	40	.44
12...	2305	.23	48	6.6	1.4	23	K1900	--	--	15	.45
12-13	--	--	--	--	1.7	40	--	--	--	30	.41
17...	0530	.06	130	8.2	.71	23	K1200	8.4	15	16	.08
17...	0540	1.4	76	8.2	2.2	73	4200	--	--	107	.55
17...	0640	2.0	55	8.2	1.5	32	6800	4.4	9.2	50	.30
17...	0730	.06	63	8.0	1.3	28	10100	4.2	8.0	19	.21
17...	0830	1.8	58	8.0	1.8	23	7000	--	--	45	.27
17...	1220	.19	63	7.9	1.3	33	4200	--	--	42	.24
17...	1420	.43	65	7.2	1.5	61	--	--	--	63	.29
17...	1450	1.8	50	7.1	1.3	58	--	--	--	77	.18
17...	1520	1.6	64	7.3	1.7	34	--	--	--	30	.25
17...	1620	1.5	76	7.3	1.6	32	--	--	--	20	.24
28...	0205	1.8	90	6.6	2.8	380	K400	15	22	292	.76
28...	0220	2.9	49	6.8	2.2	84	K600	6.6	13	123	.61
28...	0235	.31	57	6.8	2.5	42	K1200	4.8	7.4	19	.51
28...	0320	1.2	69	6.9	1.9	53	K1100	4.8	9.8	42	.32
28...	0335	1.6	54	6.9	3.9	82	--	4.4	7.4	81	.59
28-28	--	--	--	--	1.8	180	--	--	--	508	.37
29...	0130	2.5	77	6.9	1.9	120	11800	--	--	174	.70
29...	0135	4.1	48	7.0	2.0	99	9000	--	--	145	.38
29...	0145	1.4	62	6.9	2.2	52	K12400	--	--	21	.72
29...	0300	.11	95	7.0	2.2	37	4800	--	--	10	.82
29...	0315	2.1	53	7.1	1.3	31	5800	--	--	5	.58



Table 165.--Water-quality data for station  
06713010 Cherry Knolls Storm Drain at Denver--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)
MAR 29-29	.020	.57	.430	.67	1.80	.70	1.1	.250	.140	.110
APR 03...	.070	2.3	1.70	1.1	4.20	1.4	2.8	.500	.150	.160
03...	.020	.88	.460	.84	1.40	.10	1.3	.210	.090	.080
03...	.020	.62	.410	.79	1.20	.00	1.2	.190	.130	.070
03...	.020	.57	.380	.57	1.20	.25	.95	.160	.130	.080
03-03	.020	.57	.530	.47	1.60	.60	1.0	.220	.130	.080
MAY 03...	.050	1.0	1.40	1.3	3.00	.30	2.7	.460	.270	.290
03...	.030	.81	.960	1.1	2.10	.00	2.1	.490	.180	.190
03...	.030	.80	.870	.83	3.10	1.4	1.7	.580	.200	.220
03...	.030	.66	.730	1.2	2.30	.40	1.9	.640	.180	.200
03...	.030	.65	.640	.56	4.80	3.6	1.2	1.50	.160	.340
03...	.040	.97	.770	1.1	5.50	3.6	1.9	1.30	.320	.560
12...	.030	2.2	2.20	1.1	7.80	4.5	3.3	.520	.330	.000
12...	.010	.59	1.10	.50	2.10	.50	1.6	.230	.180	.010
12...	.020	.38	.900	.40	1.60	.30	1.3	.230	.230	.040
12...	.010	.45	.820	.58	1.60	.20	1.4	.190	.160	.000
12...	.010	.46	.600	.36	1.30	.34	.96	.180	.140	.000
12-13	.010	.42	.880	.42	1.80	.50	1.3	.230	.170	.080
17...	.000	.08	.010	.62	.78	.15	.63	.070	.060	.050
17...	.010	.56	.640	.96	2.20	.60	1.6	.310	.180	.100
17...	.010	.31	.470	.73	1.60	.40	1.2	.260	.200	.040
17...	.010	.22	.420	.68	1.30	.20	1.1	.230	.190	.110
17...	.000	.27	.440	1.1	1.60	.10	1.5	.270	.200	.050
17...	.020	.26	.570	.43	4.40	3.4	1.0	.190	.130	.080
17...	.020	.31	.500	.70	1.40	.20	1.2	.200	.120	.120
17...	.010	.19	.510	.59	1.50	.40	1.1	.300	.190	.150
17...	.010	.26	.620	.78	1.40	.00	1.4	.330	.270	.180
17...	.010	.25	.680	.62	1.50	.20	1.3	.400	.340	.280
28...	.020	.78	.900	1.1	3.80	1.8	2.0	.390	.160	.120
28...	.010	.62	.710	.89	1.90	.30	1.6	.290	.130	.130
28...	.010	.52	.720	1.3	2.00	.00	2.0	.220	.170	.140
28...	.010	.33	.590	1.0	1.60	.00	1.6	.250	.150	.130
28...	.010	.60	.720	2.6	--	--	3.3	.280	.150	.130
28-28	.000	.37	.510	.89	3.70	2.3	1.4	.650	.120	.050
29...	.020	.72	.600	.60	1.50	.30	1.2	.210	.210	.100
29...	.010	.39	.450	1.2	2.00	.40	1.6	.260	.100	.110
29...	.010	.73	.540	.96	1.90	.40	1.5	.190	.120	.070
29...	.020	.84	.550	.85	1.50	.10	1.4	.190	.140	.110
29...	.010	.59	.470	.22	.88	.19	.69	.170	.120	.070

Table 165--Water-quality data for station  
06713010 Cherry Knolls Storm Drain at Denver--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)
MAR 29-29	0	10	2200	85	70	120	11	8.7	845	1600
APR 03...	2	29	7900	430	290	380	63	46	--	--
03...	1	12	3500	140	100	110	16	7.2	--	--
03...	1	8	1600	73	50	60	11	9.1	--	--
03...	0	6	790	40	40	60	12	7.9	--	--
03-03	1	11	2500	110	80	100	16	10	655	1150
MAY 03...	1	15	2400	130	100	100	55	28	--	--
03...	1	22	4600	230	120	180	42	12	--	--
03...	2	33	8300	360	210	270	30	23	--	--
03...	3	37	11000	450	250	330	44	7.3	--	--
03...	5	90	29000	1000	680	840	44	7.9	--	--
03...	2	55	19000	440	490	430	46	12	--	--
12...	2	31	5100	190	260	320	66	53	--	--
12...	8	9	1300	53	50	90	15	11	--	--
12...	0	8	840	32	40	60	11	11	--	--
12...	0	9	1600	51	50	60	10	9.7	--	--
12...	0	6	660	28	30	30	8.1	7.4	--	--
12-13	0	8	1100	39	50	60	11	11	2000	100
17...	<1	4	230	2	220	10	12	7.6	--	--
17...	0	12	3000	130	90	130	15	9.9	--	--
17...	1	9	1500	53	40	70	5.2	5.2	--	--
17...	0	5	560	24	20	40	7.3	5.9	--	--
17...	0	3	1000	29	30	50	6.9	4.9	--	--
17...	0	7	1200	52	40	70	9.2	5.6	--	--
17...	0	8	1600	62	50	90	12	7.8	--	--
17...	0	8	1800	63	50	80	10	6.1	--	--
17...	0	6	860	32	30	60	7.9	4.0	--	--
17...	0	6	690	32	20	50	8.0	7.7	--	--
28...	1	30	9200	350	220	290	45	19	--	--
28...	1	13	3300	130	80	120	17	8.4	--	--
28...	0	7	910	35	40	50	8.5	7.5	--	--
28...	1	8	1600	60	50	70	11	4.3	--	--
28...	1	13	2600	120	70	100	14	9.4	--	--
28-28	1	40	14000	540	280	370	39	9.1	1430	1450
29...	2	20	6000	260	160	220	21	11	--	--
29...	1	16	4400	200	100	320	19	8.4	--	--
29...	1	9	1400	79	50	70	12	6.9	--	--
29...	1	6	490	18	30	50	11	9.0	--	--
29...	0	5	710	25	30	50	7.2	5.8	--	--

Table 165.--Water-quality data for station  
06713010 Cherry Knolls Storm Drain at Denver--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	NITRO- GEN, DISSOLV (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
MAY										
29...	0330	1.7	54	7.1	1.5	26	6600	7	.46	.010
29...	0400	2.7	46	7.1	1.4	38	8200	13	.39	.010
29...	0415	.35	56	7.1	1.7	26	5100	22	.41	.010
29...	0445	.07	63	7.1	1.6	27	4700	0	.44	.010
JUN										
29...	1725	4.7	95	6.8	5.4	230	--	439	.93	.040
29...	1730	8.0	70	6.7	4.5	160	--	437	1.10	.020
29...	1740	3.6	104	6.9	3.5	100	--	107	.94	.000
29...	1745	1.2	87	7.0	3.2	85	--	80	.89	.030
JUL										
07...	1720	1.2	224	7.0	8.8	350	--	526	1.90	.310
07...	1730	7.7	76	6.7	5.2	160	--	160	1.20	.270
07...	1740	10	54	6.7	3.6	110	--	88	.93	.050
07...	1755	2.2	90	7.2	3.6	130	--	99	.86	.240
12-12	--	--	--	--	2.4	88	--	148	.61	.020
26...	2030	2.6	182	7.4	4.3	220	--	1010	1.70	.050
26...	2035	5.6	66	7.6	3.1	110	--	199	.84	.020
26...	2040	7.7	84	7.9	3.0	190	--	554	1.10	.020
26...	2050	3.1	78	7.7	2.8	74	--	59	.71	.030
26...	2100	1.4	82	7.6	2.5	63	--	91	.62	.020
AUG										
09...	1655	1.2	116	7.4	3.2	190	--	262	.88	.040
09...	2130	1.2	86	7.4	2.2	160	--	85	.76	.030
09...	2145	1.4	69	7.3	1.9	41	--	64	.50	.020
09...	2200	1.2	138	7.2	2.0	39	--	23	.46	.020

Table 165.--Water-quality data for station  
06713010 Cherry Knolls Storm Drain at Denver--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS, ORTH0, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)
MAY										
29...	.47	.370	.63	1.00	.00	1.0	.180	.140	.090	1
29...	.40	.300	.65	1.00	.05	.95	.190	.150	.110	1
29...	.42	.320	.98	1.80	.50	1.3	.230	.180	.100	1
29...	.45	.350	.75	1.10	.00	1.1	.230	.190	.150	1
JUN										
29...	.97	2.00	2.4	8.70	4.3	4.4	.400	.170	.400	4
29...	1.1	1.50	1.9	4.40	1.0	3.4	.390	.070	.350	2
29...	.94	1.10	1.5	3.30	.70	2.6	.600	.340	.440	1
29...	.92	1.00	1.3	2.40	.10	2.3	.440	.310	.380	1
JUL										
07...	2.2	.370	6.2	10.0	3.4	6.6	2.50	1.70	1.20	6
07...	1.5	2.50	1.2	3.80	.10	3.7	.970	.880	.880	2
07...	.98	1.60	1.0	2.70	.10	2.6	.610	.430	.370	1
07...	1.1	1.50	1.0	3.10	.60	2.5	.730	.540	.730	1
12-12	.63	.970	.83	2.20	.40	1.8	.370	.230	.170	1
26...	1.7	1.60	1.0	4.10	1.5	2.6	.780	.260	.300	2
26...	.86	1.80	.40	3.00	.80	2.2	.490	.190	.200	1
26...	1.1	1.20	.70	3.00	1.1	1.9	.690	.230	.220	2
26...	.74	.830	1.0	2.10	.00	1.6	.400	.230	.240	1
26...	.64	.300	1.3	--	.30	1.6	.350	.200	.220	3
AUG										
09...	.92	1.20	1.1	4.10	1.8	2.3	.310	.170	.250	2
09...	.79	1.00	.40	3.00	1.6	1.4	.280	.140	.190	1
09...	.52	.820	.58	2.20	.80	1.4	.240	.160	.170	1
09...	.48	.770	.73	1.80	.30	1.5	.170	.140	.140	1

Table 165.--Water-quality data for station  
06713010 Cherry Knolls Storm Drain at Denver--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)
MAY									
29...	5	510	18	20	40	6.6	5.7	--	--
29...	5	720	20	20	40	6.3	5.1	--	--
29...	4	390	13	20	20	6.7	5.9	--	--
29...	5	310	8	20	30	7.6	6.2	--	--
JUN									
29...	39	9400	480	320	570	--	--	--	--
29...	32	8000	350	230	360	--	--	--	--
29...	18	4000	160	130	190	--	--	--	--
29...	12	1900	84	80	140	--	--	--	--
JUL									
07...	50	15000	530	490	630	40	40	--	--
07...	27	6800	270	200	280	32	27	--	--
07...	14	4000	100	100	140	17	17	--	--
07...	15	3000	90	100	130	24	23	--	--
12-12	16	4200	160	100	160	20	8.5	1600	2135
26...	40	19000	220	560	400	--	46	--	--
26...	20	630	120	150	170	22	15	--	--
26...	37	18000	200	410	340	30	18	--	--
26...	15	4500	66	110	140	18	14	--	--
26...	14	320	44	90	100	15	13	--	--
AUG									
09...	37	8700	210	220	290	26	24	--	--
09...	20	4200	85	120	160	18	17	--	--
09...	10	2300	28	70	110	11	--	--	--
09...	8	1200	15	50	100	--	11	--	--

Table 166.--Water-quality data for station  
06720420 Storm Drain at 116th Avenue and Claude Court, at Northglenn

[E indicates estimated; K indicates nonideal colony count]

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	NITRO- GEN, DISSOLV (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	OXYGEN DEMAND, BIOCHEM CARBON, 5 DAY (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, 20 DAY (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
MAR											
04...	1525	3.9	76	8.8	1.3	110	--	--	--	484	.23
04...	1540	4.7	76	8.9	1.8	57	K500	15	--	470	.21
04...	1555	4.4	78	8.9	1.1	40	K100	--	--	734	.23
21-21	--	--	--	--	1.7	98	--	--	--	252	.24
APR											
03...	0910	7.2	--	--	1.4	46	--	--	--	147	.39
03...	0915	6.0	49	7.2	1.3	53	--	--	--	129	.38
03...	1000	.36	59	7.1	1.7	37	--	--	--	74	.53
19...	1645	4.4	81	7.8	4.8	250	--	--	--	408	.62
19...	1715	3.9	53	7.8	2.8	130	K700	--	--	171	.64
19...	1805	3.6	52	8.0	2.5	190	--	--	--	317	.50
MAY											
03...	0205	3.3	183	7.0	6.6	460	12000	--	--	806	1.90
03...	0250	3.5	56	7.3	2.3	230	K1400	--	--	180	.57
03...	0305	5.2	40	7.4	2.2	190	2100	--	--	194	.62
03...	0320	3.0	45	7.4	2.1	180	K900	--	--	111	.56
03...	1500	4.7	--	--	3.8	420	--	--	--	426	1.00
03...	1950	1.7	72	8.3	2.0	520	K14200	--	--	1340	.58
03...	1955	29	60	8.4	8.3	470	K12600	--	--	1120	.66
03...	2015	12	51	8.1	2.8	320	5400	--	--	298	.60
03...	2025	5.0	57	7.9	2.3	85	K17400	--	--	208	.66
12-13	--	--	--	--	2.4	68	--	--	--	104	.63
16-17	--	--	--	--	1.3	27	--	--	--	71	.38
17-18	--	--	--	--	1.6	36	--	--	--	104	.35
JUN											
02...	1910	7.8	124	7.9	3.3	220	K6000	16	33	812	.73
02...	1935	19	68	8.6	2.0	120	7600	--	--	1030	.65
02...	1955	E71	68	8.7	2.1	140	30000	--	--	1420	.59
02...	2000	E94	95	8.6	2.2	190	41000	--	--	2390	.37
02...	2010	E90	85	8.6	1.8	130	40000	--	--	1470	.81
02...	2015	E73	127	8.5	2.7	--	--	--	--	--	.88
02...	2020	55	97	8.7	2.1	100	36000	5.2	13	470	.91
02...	2030	26	100	8.6	3.5	68	K64000	--	--	968	1.10
02...	2050	4.1	134	8.2	4.7	70	K119000	--	18	872	1.70
02-03	--	--	84	8.5	2.0	100	--	--	--	1080	.92
03...	0135	2.5	89	8.6	1.6	57	5000	--	--	716	.97
03...	0205	3.9	65	8.6	.65	36	3400	--	--	194	.53
03...	0220	2.8	69	8.5	.71	34	3100	--	--	190	.58
03...	1450	22	80	8.9	2.1	170	5200	--	--	1080	.68
03...	1455	55	105	8.9	2.0	200	K17000	--	--	4470	.56
03...	1505	E123	96	8.8	2.0	170	40000	--	--	4010	.46
03...	1530	25	86	8.7	3.5	69	K148000	--	--	428	1.30

Table 166.--Water-quality data for station  
06720420 Storm Drain at 116th Avenue and Claude Court, at Northglenn--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)
MAR										
04...	.020	.25	.510	.49	2.20	1.2	1.0	.630	.150	.260
04...	.020	.23	.810	.79	--	.00	1.6	.650	.150	.330
04...	.020	.25	.520	.34	1.30	.44	.86	.670	.150	.310
21-21	.030	.27	.530	.87	1.60	.20	1.4	.250	.140	.140
APR										
03...	.010	.40	.380	.62	1.20	.20	1.0	.230	.100	.040
03...	.010	.39	.370	.49	1.40	.54	.86	.220	.090	.070
03...	.020	.55	.460	.64	1.20	.10	1.1	.210	.150	.120
19...	.030	.65	1.30	2.8	--	.00	4.1	.880	.250	.250
19...	.020	.66	1.20	.90	2.10	.00	2.1	.380	.200	.020
19...	.020	.52	1.00	1.0	3.00	1.0	2.0	.590	.190	.380
MAY										
03...	.090	2.0	2.20	2.4	9.20	4.6	4.6	1.80	.460	.990
03...	.020	.59	1.20	.50	2.40	.70	1.7	.570	.310	.320
03...	.020	.64	.980	.62	2.60	1.0	1.6	.470	.260	.000
03...	.010	.57	1.20	.30	1.70	.20	1.5	.390	.240	.250
03...	.070	1.1	1.20	1.5	--	.00	2.7	.830	.260	.340
03...	.040	.62	.760	.64	4.30	2.9	1.4	1.80	.170	.320
03...	.040	.70	.830	6.8	11.0	3.4	7.6	1.50	.150	.250
03...	.030	.63	.900	1.3	2.40	.20	2.2	.500	.150	.220
03...	.050	.71	.870	.73	2.60	1.0	1.6	.440	.180	.190
12-13	.010	.64	1.10	.70	2.20	.40	1.8	.350	.220	.000
16-17	.010	.39	.440	.46	1.20	.30	.90	.210	.190	.070
17-18	.010	.36	.360	.84	1.20	.00	1.2	.270	.180	.150
JUN										
02...	.090	.82	.360	2.1	3.60	1.1	2.5	.570	.110	.100
02...	.020	.67	.350	.95	1.50	.20	1.3	.520	.140	.150
02...	.030	.62	.340	1.2	1.80	.30	1.5	.650	.190	.030
02...	.030	.40	.350	1.5	2.20	.40	1.8	.660	.200	.050
02...	.030	.84	.480	.52	4.20	3.2	1.0	2.40	.230	1.30
02...	.050	.93	.370	1.4	4.40	2.6	1.8	.290	.150	.270
02...	.030	.94	.420	.78	3.40	2.2	1.2	.250	.170	.260
02...	.030	1.1	.600	1.8	2.90	.50	2.4	.900	.330	.260
02...	.050	1.7	.740	2.3	--	.00	3.0	3.00	.550	.610
02-03	.030	.95	.480	.52	2.00	1.0	1.0	.810	.210	.280
03...	.030	1.0	.490	.06	1.50	.95	.55	.310	.160	.260
03...	.100	.63	.330	.00	.32	1.2	.02	.320	.320	.010
03...	.100	.68	.340	.00	1.30	1.3	.03	.300	.300	.010
03...	.020	.70	.540	.86	--	--	1.4	.970	.150	.150
03...	.030	.59	.510	.89	--	--	1.4	2.10	.160	.140
03...	.030	.49	.190	1.3	6.90	5.4	1.5	2.10	.150	.250
03...	.060	1.4	.140	2.0	3.50	1.4	2.1	.990	.490	.620

Table 166.--Water-quality data for station  
06720420 Storm Drain at 116th Avenue and Claude Court, at Northglenn--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)
MAR										
04...	0	30	11000	300	240	170	24	6.0	--	--
04...	1	40	14000	390	300	200	20	4.6	--	--
04...	6	40	13000	320	290	170	19	4.8	--	--
21-21	0	16	6600	150	140	130	16	7.7	755	1650
APR										
03...	1	12	3600	120	80	80	11	5.0	--	--
03...	1	11	3400	120	70	80	11	4.9	--	--
03...	1	9	2300	55	50	60	11	7.4	--	--
19...	2	35	11000	380	270	320	35	13	--	--
19...	0	17	4700	220	110	160	15	8.3	--	--
19...	0	25	7300	330	170	220	21	6.2	--	--
MAY										
03...	4	90	18000	960	510	590	91	57	--	--
03...	0	20	4200	330	110	150	31	19	--	--
03...	2	20	4200	270	100	130	27	--	--	--
03...	0	14	3000	240	80	110	26	13	--	--
03...	2	45	11000	510	260	320	52	21	--	--
03...	4	110	36000	1500	730	870	90	15	--	--
03...	3	80	25000	1000	540	650	59	8.1	--	--
03...	0	25	7000	280	150	270	18	7.9	--	--
03...	0	20	5300	180	120	200	14	8.2	--	--
12-13	0	14	2900	97	70	80	17	14	1945	105
16-17	0	9	2100	60	50	60	8.6	4.3	1220	1210
17-18	0	9	1800	63	50	60	6.9	5.0	1220	220
JUN										
02...	4	50	20000	510	410	360	50	16	--	--
02...	3	50	29000	350	530	340	15	6.6	--	--
02...	5	70	37000	320	760	370	36	4.8	--	--
02...	4	120	65000	420	1300	520	16	6.5	--	--
02...	3	80	46000	230	830	340	13	9.5	--	--
02...	3	110	72000	370	1500	490	--	--	--	--
02...	2	60	43000	200	840	300	7.0	5.8	--	--
02...	2	35	25000	110	400	180	16	6.8	--	--
02...	1	31	20000	84	360	150	19	11	--	--
02-03	2	50	30000	220	490	250	8.4	5.3	1910	415
03...	2	30	19000	89	320	120	6.4	6.4	--	--
03...	2	12	6000	41	100	50	7.4	5.1	--	--
03...	1	12	5200	33	90	40	6.8	2.9	--	--
03...	0	70	44000	310	720	430	27	6.5	--	--
03...	1	210	94000	450	2000	680	15	5.9	--	--
03...	1	110	82000	310	1200	500	17	6.9	--	--
03...	0	29	14000	71	230	130	13	11	--	--



Table 166.--Water-quality data for station  
06720420 Storm Drain at 116th Avenue and Claude Court, at Northglenn--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	NITRO- GEN, DISSOLV (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
JUN										
03...	1600	5.8	114	8.0	3.4	67	K129000	238	1.20	.040
JUL										
26...	1910	14	77	7.0	3.0	180	--	444	1.30	.060
26...	1920	25	61	7.2	2.0	120	--	216	.71	.040
26...	1930	15	53	7.3	2.0	73	--	178	.72	.030
26...	1940	3.6	54	7.3	2.1	55	--	113	.72	.030
26...	1955	9.7	49	7.3	2.6	70	--	145	.59	.030
26...	2000	16	46	7.4	1.8	52	--	180	.63	.030
26...	2010	11	42	7.3	1.8	44	--	176	.63	.030
26...	2040	4.2	43	7.3	1.6	34	--	28	.56	.020
AUG										
09...	1630	7.2	112	6.9	2.2	250	--	422	.11	.140
09...	1635	18	81	7.0	2.0	110	--	249	.36	.050
09...	1645	11	72	7.1	2.1	100	--	234	.40	.050
09...	1650	6.0	66	7.0	1.8	84	--	128	.38	.050
09-09	--	--	--	--	2.0	130	--	302	.36	.050

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)
JUN										
03...	1.2	.740	1.5	3.70	1.5	2.2	.980	.980	.800	1
JUL										
26...	1.4	.920	.68	3.90	2.3	1.6	.690	.120	.160	3
26...	.75	.680	.52	2.30	1.1	1.2	.530	.110	.150	2
26...	.75	.640	.56	2.00	.80	1.2	.380	.110	.160	1
26...	.75	.610	.69	2.30	1.0	1.3	.350	.130	.150	1
26...	.62	.630	1.4	2.20	.20	2.0	.310	.110	.130	1
26...	.66	.560	.54	1.90	.80	1.1	.330	.110	.150	1
26...	.66	.650	.45	1.70	.60	1.1	.260	.130	.150	0
26...	.58	.530	.47	1.40	.10	1.0	.290	.170	.230	0
AUG										
09...	.25	.940	.96	7.90	6.0	1.9	1.30	.250	.300	3
09...	.41	.730	.87	4.00	2.4	1.6	.940	.170	.200	2
09...	.45	.700	.90	3.00	1.4	1.6	.490	.220	.190	1
09...	.43	.680	.72	2.30	.90	1.4	.400	.170	.190	1
09-09	.41	.730	.87	4.70	3.1	1.6	.440	.190	.190	2

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)
JUN									
03...	18	6600	50	120	90	24	12	--	--
JUL									
26...	43	9100	390	230	310	33	12	--	--
26...	26	7900	220	170	210	16	9.6	--	--
26...	14	4900	100	110	150	13	5.9	--	--
26...	11	3000	76	70	80	9.9	4.6	--	--
26...	18	5000	150	110	130	12	4.5	--	--
26...	15	5300	93	110	140	9.8	4.0	--	--
26...	11	2100	70	50	80	7.7	4.6	--	--
26...	5	920	29	30	40	5.0	4.1	--	--
AUG									
09...	60	13000	390	300	390	39	25	--	--
09...	35	7400	150	150	170	18	13	--	--
09...	28	6200	170	140	150	15	12	--	--
09...	20	4100	100	90	100	14	12	--	--
09-09	45	9400	240	200	250	30	15	1630	1705

Table 167.--Water-quality data for station  
394236105042400 Villa Italia Storm Drain at Lakewood

[K indicates nonideal colony count]

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	NITRO- GEN DIS- SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	OXYGEN DEMAND, BIOCHEM CARBON, 5 DAY (MG/L)	OXYGEN DEMAND, BIOCHEM CARBON, 20 DAY (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
MAR											
20...	1740	2.9	213	7.2	6.2	360	--	--	--	328	1.80
20...	1745	5.3	170	6.9	5.3	360	--	--	--	308	1.70
20...	1805	10	78	6.8	3.0	200	--	--	--	226	1.10
20...	1825	2.1	78	6.8	2.7	130	--	--	--	136	.94
20-20	--	--	--	--	4.3	250	--	--	--	238	1.40
21-21	--	--	--	--	1.8	110	--	--	--	102	.39
24-24	--	--	--	--	3.1	180	--	--	--	73	.83
28-28	--	--	--	--	1.4	100	--	--	--	148	.32
29-29	--	--	--	--	1.9	60	--	--	--	49	.54
MAY											
03-03	0205	--	--	--	5.3	250	--	--	--	114	1.30
03-03	1315	--	--	--	2.5	240	--	--	--	172	.68
03-03	2100	--	--	--	3.7	250	--	--	--	34	1.30
05-05	--	--	--	--	5.3	--	--	--	--	124	--
09-09	--	--	--	--	2.2	90	--	--	--	43	.50
17-17	--	--	--	--	1.3	37	--	--	--	43	.39
17-18	--	--	--	--	1.2	59	--	--	--	71	.28
27...	2135	3.2	131	6.4	4.1	330	K22000	31	50	473	1.50
27...	2145	40	59	6.5	2.9	220	K3000	20	31	339	.97
27...	2155	16	45	6.6	2.3	160	2100	13	23	283	.70
27...	2200	44	35	6.7	2.3	130	K1000	10	16	243	.53
27...	2220	4.5	46	6.7	2.2	70	K700	7.4	13	60	.62
27...	2250	3.1	63	6.7	2.9	57	4400	7.8	14	23	.93
28-29	--	--	--	--	1.5	33	--	--	--	10	.57
JUN											
02-03	--	--	--	--	2.2	74	--	--	--	--	.95
03...	1430	52	32	7.0	1.7	170	K2000	--	--	808	.39
03...	1445	77	35	8.6	4.5	91	5000	--	--	382	2.80
03...	1505	46	32	8.2	1.9	100	K2600	--	--	95	.56
03...	1525	47	45	8.5	1.7	100	11800	--	--	440	.25
03...	1605	10	62	8.6	1.5	140	34000	--	--	900	.30
03-03	--	--	--	--	1.9	140	--	--	--	--	.25
JUL											
26...	1930	46	68	7.0	3.1	210	--	--	--	299	1.10
26...	1940	57	33	7.2	2.0	83	--	--	--	163	.58
26...	1945	66	31	7.3	1.6	56	--	--	--	166	.45
26...	2000	41	24	7.2	1.9	36	--	--	--	78	.39
26...	2010	34	27	7.0	2.0	41	--	--	--	55	.45
26...	2025	9.3	50	6.9	2.5	47	--	--	--	43	.65
26...	2320	19	23	7.0	1.6	52	--	--	--	48	.46
26...	2335	8.0	31	6.9	2.0	32	--	--	--	51	.49
AUG											
09...	1635	9.9	131	8.1	3.3	360	--	--	--	2270	.88

Table 167.--Water-quality data for station  
394236105042400 Villa Italia Storm Drain at Lakewood--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPHOS- PHATE TOTAL (MG/L AS P)
MAR										
20...	.060	1.9	2.00	2.3	6.60	2.3	4.3	1.00	.890	.380
20...	.060	1.8	1.90	1.6	4.70	1.2	3.5	.560	.450	.220
20...	.040	1.1	.960	.94	6.20	4.3	1.9	.300	.180	.130
20...	.040	.98	.850	.85	1.90	.20	1.7	.270	.160	.150
20-20	.050	1.4	1.40	1.5	3.20	.30	2.9	.480	.350	.190
21-21	.040	.43	.820	.58	2.10	.70	1.4	.770	.610	.680
24-24	.090	.92	1.30	.90	2.40	.20	2.2	.380	.320	.230
28-28	.020	.34	.440	.66	1.30	.20	1.1	.230	.080	.070
29-29	.030	.57	.720	.58	1.80	.50	1.3	.200	.070	.050
MAY										
03-03	.040	1.3	1.20	2.8	4.70	.70	4.0	.850	.640	.630
03-03	.040	.72	1.20	.60	2.70	.90	1.8	.450	.220	.260
03-03	.040	1.3	1.20	1.2	3.10	.70	2.4	.510	.390	.190
05-05	--	2.2	--	--	3.30	.20	3.1	.650	.470	.570
09-09	.030	.53	.700	1.0	1.80	.10	1.7	.240	.140	.160
17-17	.020	.41	.370	.49	1.00	.14	.86	.150	.110	.060
17-18	.010	.29	.280	.60	1.00	.12	.88	.160	.080	.070
27...	.040	1.5	1.20	1.4	3.60	1.0	2.6	.440	.140	.080
27...	.030	1.0	.940	.96	2.40	.50	1.9	.260	.110	.070
27...	.030	.73	.730	.87	2.40	.80	1.6	.310	.110	.020
27...	.030	.56	.700	1.0	1.60	2.0	1.7	.330	.090	.040
27...	.020	.64	.720	.88	1.40	.00	1.6	.210	.090	4.00
27...	.030	.96	.860	1.1	1.90	.00	1.9	.380	.130	.140
28-29	.010	.58	.390	.56	1.10	.15	.95	.100	.070	.070
JUN										
02-03	.020	.97	.190	1.0	1.50	.30	1.2	.240	.090	.090
03...	.020	.41	.490	.81	1.70	.40	1.3	.100	.008	.100
03...	.040	2.8	.050	1.7	2.10	.40	1.7	.470	.110	.110
03...	.060	.62	.130	1.2	1.80	.50	1.3	.470	.110	.110
03...	.070	.32	.390	1.0	2.30	.90	1.4	.580	.140	.150
03...	.100	.40	.320	.78	3.00	1.9	1.1	.920	.180	.210
03-03	.070	.32	.380	1.2	2.10	.50	1.6	.660	.160	.150
JUL										
26...	.020	1.1	1.30	.70	3.00	1.0	2.0	.660	.200	.160
26...	.020	.60	.730	.67	1.60	.20	1.4	.490	.120	.180
26...	.020	.47	.620	.48	1.50	.40	1.1	.540	.200	.260
26...	.060	.45	.680	.42	1.40	.00	1.1	.230	.110	.200
26...	.050	.50	.710	.50	1.70	.20	1.5	.240	.130	.190
26...	.050	.70	.900	.90	2.00	.20	1.8	.200	.100	.190
26...	.020	.48	.520	.58	1.20	.10	1.1	.200	.090	.150
26...	.010	.50	.620	.88	1.60	.10	1.5	.170	.080	.160
AUG										
09...	.080	.96	1.10	1.2	5.90	3.6	2.3	--	.260	.400

Table 167.--Water-quality data for station  
394236105042400 Villa Italia Storm Drain at Lakewood--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)
MAR										
20...	2	42	7700	440	360	430	68	24	--	--
20...	2	38	8800	340	350	400	72	44	--	--
20...	1	25	6100	280	190	250	36	20	--	--
20...	0	18	4600	190	150	180	23	15	--	--
20-20	1	29	6300	320	240	290	55	31	1725	1855
21-21	1	18	5100	140	170	200	23	12	815	1410
24-24	1	21	6200	440	220	300	32	29	1535	1745
28-28	1	17	3800	170	130	150	19	8.4	645	2400
29-29	2	15	1400	58	90	300	17	11	1150	1550
MAY										
03-03	1	40	1700	210	180	280	55	--	205	610
03-03	1	29	4800	360	160	240	38	29	1310	1515
03-03	1	23	2000	110	150	210	45	35	2100	2400
05-05	2	34	3900	--	220	340	100	62	1710	2245
09-09	0	14	1800	72	90	130	21	19	405	1340
17-17	0	10	1700	51	60	100	14	11	805	1325
17-18	0	12	3100	79	90	110	12	5.1	1330	335
27...	1	46	12000	460	360	480	41	38	--	--
27...	1	30	7200	360	210	350	28	23	--	--
27...	1	25	6900	320	190	300	16	16	--	--
27...	0	20	6000	240	150	230	10	10	--	--
27...	1	12	2300	62	80	110	11	10	--	--
27...	2	8	750	34	60	110	15	15	--	--
28-29	1	7	1000	15	40	60	5.6	5.3	2120	755
JUN										
02-03	1	21	4500	160	130	170	9.3	.8	1855	200
03...	2	48	10000	450	250	260	--	12	--	--
03...	1	45	13000	250	310	230	9.7	4.6	--	--
03...	1	49	15000	230	290	230	11	5.8	--	--
03...	1	61	20000	220	330	310	41	8.9	--	--
03...	0	90	39000	190	600	400	25	12	--	--
03-03	1	50	23000	230	400	280	33	8.0	1425	1630
JUL										
26...	2	37	9000	310	300	330	32	24	--	--
26...	1	22	6900	170	190	170	12	5.8	--	--
26...	1	19	6000	110	190	140	8.4	4.4	--	--
26...	2	13	3000	63	80	210	5.9	4.2	--	--
26...	1	9	2000	57	70	190	10	8.1	--	--
26...	1	12	2200	42	100	260	12	9.4	--	--
26...	1	9	2200	66	70	90	8.8	8.8	--	--
26...	1	11	2300	33	90	100	6.1	3.5	--	--
AUG										
09...	2	160	100000	590	2000	820	57	30	--	--

Table 167.--Water-quality data for station  
394236105042400 Villa Italia Storm Drain at Lakewood--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	NITRO- GEN DIS- SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
AUG										
09...	2055	16	54	7.6	2.4	120	318	.73	.040	.77
09...	2110	12	39	7.6	1.9	55	144	.45	.020	.47
12-12	--	--	--	--	3.8	250	844	.99	.110	1.1

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)
AUG									
09...	.770	.83	2.30	.70	1.6	.530	.130	.280	1
09...	.700	.70	1.70	.30	1.4	.250	.120	.200	0
12-12	.860	1.8	3.70	1.0	2.7	--	.000	.900	2

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	START- ING TIME (2400 HOURS)	END- ING TIME (2400 HOURS)
AUG									
09...	31	11000	270	270	200	25	13	--	--
09...	19	5500	76	150	110	17	3.0	--	--
12-12	62	28000	320	760	420	61	26	1120	1210

Station number and name		Table
06710225	Big Dry Creek tributary at Easter Street-----	168-169
06710610	Rooney Gulch at Rooney Ranch-----	170-171
06711585	Asbury Park Storm Drain and -----	172-173
06711586	Asbury Park Storm Drain at Asbury Avenue	
06711635	North Avenue Storm Drain at Denver Federal Center and --	174-175
06711637	North Avenue Storm Drain at Denver Federal Center North Avenue	
06713010	Cherry Knolls Storm Drain-----	176-177
06720420	Storm Drain at 116th Avenue and Claude Court-----	178-179
394236105042400	Villa Italia Storm Drain-----	180-181

DEG.C=degree Celsius  
MG/L=milligram per liter  
ML=milliliter  
SQ CM=square centimeter  
UG=microgram  
UG/L=microgram per liter  
UMHOS=micromhos per centimeter at 25° Celsius

Table 168.--Wetfall atmospheric-deposition data for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

[Sample-collection dates, October 1980 to October 1981]

DATE	AMOUNT OF RINSE WATER, IN LITERS	EXPO- SURE AREA (SQ CM)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	ALKA- LITY (MG/L AS CACO3)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 28-DEC 17	.27	650	--	--	--	39	31	0	--	.30	.410	.89
DEC 17-FEB 04	1.0	650	--	--	--	54	.7	2	--	.24	.170	.44
FEB 04-MAR 05	--	650	15	5.3	--	17	--	3	--	.39	.850	.35
MAR 05-APR 08	--	650	31	6.2	--	14	--	--	22	.93	1.20	.70
APR 08-MAY 06	--	650	10	5.3	--	51	--	--	1	.27	.460	.42
MAY 06-JUN 03	--	650	17	4.9	--	2	--	--	0	.41	.710	.29
JUN 03-JUL 08	--	650	--	--	--	--	--	--	--	--	--	--
JUL 08-AUG 05	--	650	19	4.7	0	0	--	--	10	.52	.720	.58
AUG 05-SEP 02	--	650	--	--	9	40	--	--	14	.56	.900	.40

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 28-DEC 17	1.30	1.6	7.1	.020	.020	.010	2	6	50	19	0	20	2.0
DEC 17-FEB 04	.61	.85	3.8	.030	.030	--	0	11	1400	110	40	40	4.9
FEB 04-MAR 05	1.20	1.6	7.0	.040	.040	.010	0	3	150	26	10	20	2.3
MAR 05-APR 08	1.90	2.8	13	.060	.060	.010	1	4	480	15	20	30	4.5
APR 08-MAY 06	.88	1.2	5.1	.020	.020	.010	0	4	10	8	0	20	1.8
MAY 06-JUN 03	1.00	1.4	6.2	.010	.010	--	0	3	90	9	10	0	1.5
JUN 03-JUL 08	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08-AUG 05	1.30	1.8	8.1	.050	.050	.010	0	6	290	15	10	20	2.8
AUG 05-SEP 02	1.30	1.9	8.2	.050	.050	.050	1	5	570	20	20	50	3.9

Table 169.--Dryfall atmospheric-deposition data for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton

[Sample-collection dates, October 1980 to October 1981]

DATE	TOTAL VOLUME (ML)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG)	CHLO- RIDE, (MG)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG)	NITRO- GEN, NO <sup>2</sup> +NO <sup>3</sup> TOTAL (MG) AS N	NITRO- GEN, AMMONIA TOTAL (MG) AS N	NITRO- GEN, ORGANIC TOTAL (MG) AS N	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG) AS N
OCT 28-DEC 17	1,215	50	1.9	96	--	.73	.210	1.3	1.60
DEC 17-FEB 04	1,020	43	2.4	98	--	.50	.330	.26	.58
FEB 04-MAR 05	1,200	35	.8	--	25	.44	.240	.80	1.00
MAR 05-APR 08	--	--	--	--	--	--	--	--	--
APR 08-MAY 06	1,200	84	.1	--	34	.52	.340	1.4	1.80
MAY 06-JUN 03	1,290	--	--	--	57	.30	.160	.80	.96
1 JUN 03-JUL 08	1,311	79	.4	--	76	2.1	2.2	2.8	5.00
JUL 08-AUG 05	1,350	62	.4	--	38	.47	.320	1.2	1.50
AUG 05-SEP 02	1,410	52	9.6	--	30	.46	.370	.55	.92
SEP 02-OCT 01	1,180	79	.1	--	59	.34	.320	.30	.61

DATE	NITRO- GEN, TOTAL (MG) AS N	PHOS- PHORUS, TOTAL (MG) AS P	PHOS- PHORUS, ORTH0, TOTAL (MG) AS P	CADMIUM TOTAL RECOV- ERABLE (UG) AS CD	COPPER, TOTAL RECOV- ERABLE (UG) AS CU	IRON, TOTAL RECOV- ERABLE (UG) AS FE	LEAD, TOTAL RECOV- ERABLE (UG) AS PB	MANGA- NESE, TOTAL RECOV- ERABLE (UG) AS MN	ZINC, TOTAL RECOV- ERABLE (UG) AS ZN	CARBON, ORGANIC TOTAL (MG) AS C
OCT 28-DEC 17	2.3	.130	.110	5	19	2,300	150	61	130	9
DEC 17-FEB 04	1.1	.090	.080	0	12	2,800	110	82	102	11
FEB 04-MAR 05	1.4	.110	.020	0	8	1,600	94	48	72	5
MAR 05-APR 08	--	--	--	--	--	--	--	--	--	--
APR 08-MAY 06	2.3	.250	.010	0	11	1,300	41	36	96	1
MAY 06-JUN 03	1.3	.090	.050	0	6	760	34	26	52	4
1 JUN 03-JUL 08	7.1	.460	.260	1	13	2,400	60	79	79	17
JUL 08-AUG 05	2.0	.140	.010	0	11	1,100	35	27	81	7
AUG 05-SEP 02	1.4	.170	.040	1	10	1,000	34	42	70	6
SEP 02-OCT 01	1.0	.090	.050	2	9	1,300	32	47	83	5

<sup>1</sup>Combined wetfall and dryfall atmospheric deposition samples



Table 170.--Wetfall atmospheric-deposition data for station  
06710610 Rooney Gulch at Rooney Ranch, near Morrison

[Sample-collection dates, October 1980 to October 1981]

DATE	AMOUNT OF RINSE WATER, IN LITERS	EXPO- SURE AREA (SQ CM)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	ALKA- LINITY (MG/L AS CAC03)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 24-DEC 16	--	650	13	6.0	--	16	--	1	--	.45	.480	.40
DEC 16-FEB 03	1.01	650	--	--	--	2	.5	3	--	.01	.060	.54
FEB 03-MAR 03	--	650	--	--	--	0	.1	6	--	.04	.110	.77
MAR 03-APR 07	--	650	11	5.3	--	9	--	--	20	.37	.240	.54
APR 07-MAY 05	--	650	12	4.8	--	43	--	--	3	.34	.460	1.5
MAY 05-JUN 02	--	650	14	4.8	--	2	--	--	0	.27	.390	.18
JUN 02-JUL 07	--	650	--	--	10	30	.3	--	6	.50	1.80	2.2
JUL 07-AUG 04	--	650	16	4.7	0	0	--	--	10	.51	.690	.61
AUG 04-SEP 01	--	650	28	4.1	1	36	--	--	9	.73	.760	.17

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N03)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 24-DEC 16	.88	1.3	5.9	.010	.010	.010	1	4	350	14	0	10	1.9
DEC 16-FEB 03	.60	.61	2.7	.040	.040	.040	0	3	160	3	10	30	1.7
FEB 03-MAR 03	.88	.92	4.1	.120	.120	.120	0	3	130	12	10	10	.7
MAR 03-APR 07	.78	1.2	5.1	.080	.080	.080	5	23	200	23	10	30	1.3
APR 07-MAY 05	2.00	2.3	10	.040	.040	.040	0	5	0	9	10	30	1.2
MAY 05-JUN 02	.57	.84	3.7	.010	.010	.010	1	4	10	6	10	0	1.0
JUN 02-JUL 07	4.00	4.5	20	.350	.350	.350	0	3	60	1	10	10	5.6
JUL 07-AUG 04	1.30	1.8	8.0	.150	.150	.150	1	27	170	13	10	30	3.9
AUG 04-SEP 01	.93	1.7	7.3	.050	.050	.050	1	5	130	40	0	40	2.4

Table 171.--Dryfall atmospheric-deposition data for station  
06710610 Rooney Gulch at Rooney Ranch, near Morrison

[Sample collection dates, October 1980 to October 1981]

DATE	TOTAL VOLUME (ML)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG)	CHLO- RIDE, (MG)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (MG AS N)	NITRO- GEN, AMMONIA TOTAL (MG AS N)	NITRO- GEN, ORGANIC TOTAL (MG AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG AS N)
OCT 24-DEC 16	1,240	33	1.7	77	--	.82	.420	1.2	1.60
DEC 16-FEB 03	1,210	24	2.2	38	--	.64	.320	.73	1.00
FEB 03-MAR 03	1,200	28	.4	--	16	.37	.170	.49	.66
MAR 03-APR 07	1,200	11	1.0	--	24	.44	.290	.65	.94
APR 07-MAY 05	1,200	67	7.2	--	44	.60	.280	1.2	1.40
MAY 05-JUN 02	1,300	--	4.9	--	8	.27	.460	.53	.99
JUN 02-JUL 07	1,334	--	--	--	--	--	--	--	--
JUL 07-AUG 04	1,300	55	.1	--	27	.40	.340	1.1	1.40
AUG 04-SEP 01	1,370	75	--	--	48	.53	1.20	12.	13.

DATE	NITRO- GEN, TOTAL (MG AS N)	PHOS- PHORUS, TOTAL (MG AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG AS P)	CADMIUM TOTAL RECOV- ERABLE (UG AS CD)	COPPER, TOTAL RECOV- ERABLE (UG AS CU)	IRON, TOTAL RECOV- ERABLE (UG AS FE)	LEAD, TOTAL RECOV- ERABLE (UG AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG AS MN)	ZINC, TOTAL RECOV- ERABLE (UG AS ZN)	CARBON, ORGANIC TOTAL (MG AS C)
OCT 24-DEC 16	2.5	.060	.030	2	15	1,200	87	37	74	5
DEC 16-FEB 03	1.7	--	--	0	10	1,600	73	48	73	4
FEB 03-MAR 03	1.0	.140	.020	0	5	1,100	36	36	36	3
MAR 03-APR 07	1.4	.100	.040	0	6	700	28	24	84	2
APR 07-MAY 05	12.	.180	.110	0	12	920	24	24	84	6
MAY 05-JUN 02	1.2	.090	.070	1	8	560	26	26	39	3
JUN 02-JUL 07	--	--	--	1	19	730	24	53	--	--
JUL 07-AUG 04	1.8	.130	.010	0	16	880	38	26	78	6
AUG 04-SEP 01	14.	1.40	1.20	1	10	990	42	41	82	12

Table 172.--Wetfall atmospheric-deposition data for stations 06711585 Asbury Park Storm Drain at Denver and 06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

[Sample-collection dates, October 1980 to October 1981]

DATE	AMOUNT OF RINSE WATER, IN LITERS	EXPOSURE AREA (SQ CM)	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	ALKALINITY (MG/L AS CaCO <sub>3</sub> )	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
DEC 17-FEB 04	.900	650	--	--	--	2	.1	87	--	.08	.120	.10
FEB 04-MAR 05	--	650	9	6.0	--	53	--	43	--	.48	.350	.75
MAR 05-APR 08	--	650	11	6.8	--	5	--	--	0	.42	.650	.35
APR 08-MAY 06	--	650	12	5.2	--	70	--	--	3	.33	.600	.60
MAY 06-JUN 03	--	650	17	4.7	--	0	--	--	0	.30	.420	.25
JUN 03-JUL 08	--	650	22	6.4	--	34	--	--	14	.76	.930	.57
JUL 08-AUG 05	--	650	21	4.8	--	0	--	--	13	.52	.700	.70
AUG 05-SEP 02	--	650	25	4.4	5.0	34	--	--	8	.52	.640	.18
SEP 02-OCT 01	--	650	42	4.6	--	61	--	--	32	.39	.670	.33

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO <sub>3</sub> )	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	CADMIUM, TOTAL RECOVERABLE (UG/L AS CD)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 17-FEB 04	.22	.30	1.3	.020	.010	0	3	120	32	10	20	.6
FEB 04-MAR 05	1.10	1.6	7.0	.170	.040	2	13	2,100	130	60	160	8.5
MAR 05-APR 08	1.00	1.4	6.3	.050	.010	0	3	120	11	10	30	1.6
APR 08-MAY 06	1.20	1.5	6.8	.030	.020	0	4	0	7	0	10	3.4
MAY 06-JUN 03	.67	.97	4.3	.010	.010	0	3	10	6	0	0	1.1
JUN 03-JUL 08	1.50	2.3	10	.040	.050	0	10	280	17	10	40	7.0
JUL 08-AUG 05	1.40	1.9	8.5	.140	.010	1	8	240	19	10	60	3.2
AUG 05-SEP 02	.82	1.3	5.9	.050	.020	1	4	130	25	10	30	2.7
SEP 02-OCT 01	1.00	1.4	6.2	.010	.010	1	7	310	17	10	60	3.3

Table 173.--Dryfall atmospheric-deposition data for stations 06711585 Asbury Park Storm Drain at Denver and 06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver

[Sample-collection dates, October 1980 to October 1981]

DATE	TOTAL VOLUME (ML)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG)	CHLO- RIDE, (MG)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (MG AS N)	NITRO- GEN, AMMONIA TOTAL (MG AS N)	NITRO- GEN, ORGANIC TOTAL (MG AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG AS N)
OCT 30-DEC 17	1,204	96	3.7	150	--	.78	.980	.83	1.80
DEC 17-FEB 04	1,190	120	7.0	160	--	.67	.840	.70	1.50
FEB 04-MAR 05	1,255	15	.1	--	3	.30	.480	.38	.85
MAR 05-APR 08	1,200	55	.4	--	--	.50	.780	.42	1.20
APR 08-MAY 06	1,200	120	.2	--	100	.52	.360	1.3	1.70
MAY 06-JUN 03	1,320	50	--	--	82	.30	.290	.98	1.30
JUN 03-JUL 08	1,286	55	.1	--	9	.80	.390	1.2	1.50
JUL 08-AUG 05	1,300	70	.5	--	73	.55	.270	1.2	1.40
AUG 05-SEP 02	1,425	74	6.3	--	81	.64	.460	.81	1.30
SEP 02-OCT 01	1,240	120	.6	--	98	.48	.480	.72	1.20

DATE	NITRO- GEN, TOTAL (MG AS N)	PHOS- PHORUS, TOTAL (MG AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG AS P)	CADMIUM TOTAL RECOV- ERABLE (UG AS CD)	COPPER, TOTAL RECOV- ERABLE (UG AS CU)	IRON, TOTAL RECOV- ERABLE (UG AS FE)	LEAD, TOTAL RECOV- ERABLE (UG AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG AS MN)	ZINC, TOTAL RECOV- ERABLE (UG AS ZN)	CARBON, ORGANIC TOTAL (MG AS C)
OCT 30-DEC 17	2.6	.120	.020	6	29	3,900	410	110	230	19
DEC 17-FEB 04	2.3	.100	.110	4	25	4,500	38	130	290	18
FEB 04-MAR 05	1.2	.060	.010	0	3	100	49	13	25	1
MAR 05-APR 08	1.7	.060	.010	0	3	3,000	13	84	180	1
APR 08-MAY 06	2.2	.220	.020	0	16	2,200	130	60	130	23
MAY 06-JUN 03	1.6	.160	.040	1	16	1,800	130	53	130	5
JUN 03-JUL 08	2.3	.180	.080	0	12	620	40	51	90	8
JUL 08-AUG 05	2.0	.200	.010	4	20	2,500	130	52	180	10
AUG 05-SEP 02	1.9	.070	.040	1	16	2,100	160	57	200	7
SEP 02-OCT 01	1.7	.150	.050	1	29	2,900	160	74	210	9

Table 174.--Wetfall atmospheric-deposition data for stations 06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood and 06711637 North Avenue Storm Drain at Denver Federal Center North Avenue, at Lakewood

[Sample-collection dates, October 1980 to October 1981]

DATE	AMOUNT OF RINSE WATER, IN LITERS	EXPO- SURE AREA (SQ CM)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	ALKA- LINITY (MG/L AS CAC03)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO <sup>2</sup> +NO <sup>3</sup> TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 22-DEC 16	--	650	15	5.2	--	19	--	--	--	.48	.920	.48
DEC 16-FEB 03	1.0	650	--	--	--	32	2.7	1	--	.17	.220	.37
FEB 03-MAR 03	.94	650	--	--	--	27	.1	--	9	.01	.100	.31
MAR 03-APR 07	--	650	11	5.3	--	13	--	--	4	.70	1.10	.90
APR 07-MAY 05	--	650	12	5.0	--	40	--	--	2	.33	.670	.43
MAY 05-JUN 02	--	650	28	6.3	--	24	--	--	15	.32	2.20	7.6
JUN 02-JUL 07	--	650	--	--	1	28	.1	--	4	.63	.830	.47
JUL 07-AUG 04	--	650	31	5.3	0	0	--	--	9	.49	.760	1.5
AUG 04-SEP 01	--	650	28	4.2	1	34	--	--	18	.70	.870	.00
SEP 01-OCT 01	--	650	25	5.0	6	56	--	--	38	.44	.660	.33

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N03)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTH0, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 22-DEC 16	1.40	1.9	8.3	--	.010	2	5	50	14	0	10	2.2
DEC 16-FEB 03	.59	.76	3.4	.100	.070	0	10	--	70	50	60	9.4
FEB 03-MAR 03	.41	.42	1.9	.070	.010	0	3	530	15	20	10	1.3
MAR 03-APR 07	2.00	2.7	12	.570	.270	3	50	10	--	0	10	1.3
APR 07-MAY 05	1.10	1.4	6.3	.070	.050	0	5	10	10	0	20	2.4
MAY 05-JUN 02	9.80	10	45	.430	.340	1	5	480	11	20	20	7.3
JUN 02-JUL 07	1.30	1.9	8.5	.040	.050	0	5	380	18	10	20	4.0
JUL 07-AUG 04	2.30	2.8	12	.140	.010	1	9	280	13	10	20	3.2
AUG 04-SEP 01	.86	1.6	6.9	.050	.030	0	4	120	20	10	30	2.5
SEP 01-OCT 01	.99	1.4	6.3	.020	.020	1	9	500	18	20	50	4.2

Table 175.---Dryfall atmospheric-deposition data for stations 06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood and 06711637 North Avenue Storm Drain at Denver Federal Center North Avenue, at Lakewood

[Sample-collection dates, October 1980 to October 1981]

DATE	TOTAL VOLUME (ML)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG)	CHLO- RIDE, (MG)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (MG AS N)	NITRO- GEN, AMMONIA TOTAL (MG AS N)	NITRO- GEN, ORGANIC TOTAL (MG AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG AS N)
OCT 22-DEC 16	1,500	120	5.4	200	--	1.6	2.00	16	18
DEC 16-FEB 03	1,210	83	5.3	140	--	.82	1.10	1.3	2.40
FEB 03-MAR 03	1,200	47	4.0	76	--	.43	.290	1.3	1.60
MAR 03-APR 07	1,200	19	.5	--	89	.84	1.30	1.1	2.40
APR 07-MAY 05	1,200	120	1.8	--	100	.50	.560	11	12
MAY 05-JUN 02	1,330	160	5.6	--	74	.76	.090	--	--
JUN 02-JUL 07	1,292	160	4.3	--	40	.80	2.20	6.7	8.90
JUL 07-AUG 04	1,300	96	.3	--	52	.66	.920	5.5	6.40
AUG 04-SEP 01	1,375	70	2.8	--	74	.54	.730	.56	1.30
SEP 01-OCT 01	1,242	110	.2	--	94	.60	.700	2.5	3.20

DATE	NITRO- GEN, TOTAL (MG AS N)	PHOS- PHORUS, TOTAL (MG AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG AS P)	CADMIUM TOTAL RECOV- ERABLE (UG AS CD)	COPPER, TOTAL RECOV- ERABLE (UG AS CU)	IRON, TOTAL RECOV- ERABLE (UG AS FE)	LEAD, TOTAL RECOV- ERABLE (UG AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG AS MN)	ZINC, TOTAL RECOV- ERABLE (UG AS ZN)	CARBON, ORGANIC TOTAL (MG AS C)
OCT 22-DEC 16	20	.920	.780	3	36	4,800	360	150	260	20
DEC 16-FEB 03	3.3	.630	.190	1	15	3,000	12	97	180	15
FEB 03-MAR 03	2.0	.230	.060	0	8	1,700	90	48	84	8
MAR 03-APR 07	3.2	.680	.320	4	60	1,900	540	72	130	8
APR 07-MAY 05	12	.800	.660	0	18	1,900	82	60	160	17
MAY 05-JUN 02	--	--	.450	1	20	2,400	100	120	120	53
JUN 02-JUL 07	9.7	3.20	2.30	1	21	1,700	59	52	100	37
JUL 07-AUG 04	7.0	1.00	.650	1	32	1,800	74	52	130	21
AUG 04-SEP 01	1.8	.150	.060	1	10	2,100	120	69	96	6
SEP 01-OCT 01	3.8	.410	.290	0	16	2,200	79	62	140	7

Table 176.--Wetfall atmospheric-deposition data for station  
06713010 Cherry Knolls Storm Drain at Denver

[Sample-collection dates, October 1980 to October 1981]

DATE	AMOUNT OF RINSE WATER, IN LITERS	EXPO- SURE AREA (SQ CM)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	ALKA- LINITY (MG/L AS CAC03)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO <sup>2</sup> +NO <sup>3</sup> TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 28-DEC 17	--	650	16	6.4	--	10	--	0	--	.13	.100	.27
DEC 17-FEB 04	.990	650	--	--	--	42	.1	1	--	.09	.120	.35
FEB 04-MAR 05	.943	650	--	--	--	29	.1	0	--	.15	.290	.33
MAR 05-APR 08	--	650	14	5.5	--	23	--	--	0	.53	.660	.34
APR 08-MAY 06	--	650	8	5.1	--	61	--	--	0	.23	.480	.49
MAY 06-JUN 03	--	650	10	4.9	--	0	--	--	0	.21	.390	.17
JUN 03-JUL 08	--	650	--	7.0	10	68	.1	--	13	.60	1.00	1.3
JUL 08-AUG 05	--	650	16	4.8	1	0	--	--	7	.50	.740	.66
AUG 05-SEP 02	--	650	23	4.8	0	32	--	--	9	.47	.770	.16
SEP 02-OCT 01	--	650	28	4.9	5	54	--	--	44	.56	.830	.37

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 28-DEC 17	.37	.50	.010	.010	0	7	50	11	10	20	.7
DEC 17-FEB 04	.47	.56	.020	.020	0	18	180	11	10	10	.8
FEB 04-MAR 05	.62	.77	.010	.030	2	4	10	33	0	20	.8
MAR 05-APR 08	1.00	1.5	.010	.030	0	3	50	6	10	20	1.8
APR 08-MAY 06	.97	1.2	.010	.020	0	4	10	6	0	10	1.5
MAY 06-JUN 03	.56	.77	.010	.010	0	2	10	4	10	0	1.0
JUN 03-JUL 08	2.30	2.9	.040	.080	0	4	330	8	10	10	5.5
JUL 08-AUG 05	1.40	1.9	.010	.150	0	4	200	12	10	20	2.4
AUG 05-SEP 02	.93	1.4	.020	.040	1	3	230	14	10	40	2.0
SEP 02-OCT 01	1.20	1.8	.010	.020	1	13	500	15	20	50	2.4

Table 177.--Dryfall atmospheric-deposition data for station  
06713010 Cherry Knolls Storm Drain at Denver

[Sample-collection dates, October 1980 to October 1981]

DATE	TOTAL VOLUME (ML)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG)	CHLO- RIDE, (MG)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG)	NITRO- GEN, NO <sup>2</sup> +NO <sup>3</sup> TOTAL (MG AS N)	NITRO- GEN, AMMONIA TOTAL (MG AS N)	NITRO- GEN, ORGANIC TOTAL (MG AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG AS N)
OCT 28-DEC 17	1,215	47	1.6	190	--	.78	.440	1.1	1.60
DEC 17-FEB 04	1,223	39	2.1	65	--	.60	.560	.90	1.50
FEB 04-MAR 05	1,200	38	.7	--	24	.44	.340	.34	.67
MAR 05-APR 08	1,200	32	.2	--	--	.64	.790	.41	1.20
APR 08-MAY 06	1,200	83	.5	--	46	.61	.550	--	--
MAY 06-JUN 03	1,315	32	--	--	42	.42	--	--	--
JUN 03-JUL 08	1,347	59	.3	--	18	.93	.730	8.1	8.80
JUL 08-AUG 05	1,350	100	.8	--	74	.68	.860	6.6	7.40
AUG 05-SEP 02	1,350	59	5.4	--	61	.65	.570	1.1	1.60
SEP 02-OCT 01	1,010	75	.3	--	67	.54	.380	1.2	1.60

DATE	NITRO- GEN, TOTAL (MG AS N)	PHOS- PHORUS, TOTAL (MG AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG AS P)	CADMIUM TOTAL RECOV- ERABLE (UG AS CD)	COPPER, TOTAL RECOV- ERABLE (UG AS CU)	IRON, TOTAL RECOV- ERABLE (UG AS FE)	LEAD, TOTAL RECOV- ERABLE (UG AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG AS MN)	ZINC, TOTAL RECOV- ERABLE (UG AS ZN)	CARBON, ORGANIC TOTAL (MG AS C)
OCT 28-DEC 17	2.3	.150	.120	1	21	1,800	130	61	97	9
DEC 17-FEB 04	2.1	.020	0	0	13	2,200	100	73	98	8
FEB 04-MAR 05	1.1	.110	.020	0	6	840	58	24	48	4
MAR 05-APR 08	1.8	.040	.012	0	3	370	7	24	60	8
APR 08-MAY 06	--	1.00	.012	0	11	1,700	36	60	72	12
MAY 06-JUN 03	--	--	--	0	11	1,100	50	39	53	10
JUN 03-JUL 08	9.7	1.30	1.10	0	11	1,600	35	54	40	13
JUL 08-AUG 05	8.1	.970	.730	0	15	1,800	45	54	180	23
AUG 05-SEP 02	2.3	.200	.090	1	9	1,400	68	54	54	7
SEP 02-OCT 01	2.1	2.40	.170	0	12	2,000	34	61	91	8



Table 178.--Wetfall atmospheric-deposition data for station  
06720420 Storm Drain at 116th Avenue and Claude Court, at Northglenn

[Sample-collection dates, October 1980 to October 1981]

DATE	AMOUNT OF RINSE WATER, IN LITERS	EXPO- SURE AREA (SQ CM)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	ALKA- LITY (MG/L AS CAC03)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 29-DEC 17	.81	650	19	5.7	--	5	--	0	.19	.290	.71
DEC 17-FEB 04	--	--	--	--	--	--	--	--	--	--	--
FEB 04-MAR 05	--	650	--	--	--	22	.1	5	.29	.500	.25
MAR 05-APR 08	--	650	11	5.8	--	7	--	--	.47	.430	.53
APR 08-MAY 06	--	650	12	5.7	--	33	--	--	.32	.910	1.4
MAY 06-JUN 03	--	650	12	5.0	--	0	--	--	.26	.510	.49
JUN 03-JUL 08	--	650	--	7.1	6	52	17	--	.82	1.20	.80
JUL 08-AUG 05	--	650	19	5.0	0	0	--	--	.59	.760	.84
AUG 05-SEP 02	--	650	21	5.2	2	34	--	--	.81	1.10	.60
SEP 02-OCT 01	--	650	27	4.6	5	57	--	--	.47	.760	.24

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N03)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTH0, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 29-DEC 17	1.00	1.2	5.3	.010	.010	0	7	50	6	0	40	.6
DEC 17-FEB 04	--	--	--	--	--	--	--	--	--	--	--	--
FEB 04-MAR 05	.75	1.0	4.6	.040	.040	3	4	470	39	20	20	1.3
MAR 05-APR 08	.96	1.4	6.3	.120	.120	0	6	30	20	0	20	1.2
APR 08-MAY 06	2.30	2.6	12	.070	.070	0	4	230	6	10	40	1.5
MAY 06-JUN 03	1.00	1.3	5.6	.010	.010	0	4	20	4	10	0	.7
JUN 03-JUL 08	2.00	2.8	12	.050	.050	1	5	540	20	20	20	4.7
JUL 08-AUG 05	1.60	2.2	9.7	.150	.150	0	8	430	11	20	30	4.6
AUG 05-SEP 02	1.70	2.5	11	.180	.180	1	4	250	16	10	30	2.6
SEP 02-OCT 01	1.00	1.5	6.5	.010	.010	0	5	190	9	10	40	3.1

Table 179.---Dryfall atmospheric-deposition data for station  
06720420 Storm Drain at 116th Avenue and Claude Court, at Northglenn

[Sample-collection dates, October 1980 to October 1981]

DATE	TOTAL VOLUME (ML)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG)	CHLO- RIDE, (MG)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG)	NITRO- GEN, NO <sup>2</sup> +NO <sup>3</sup> TOTAL (MG AS N)	NITRO- GEN, AMMONIA TOTAL (MG AS N)	NITRO- GEN, ORGANIC TOTAL (MG AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG AS N)
OCT 29-DEC 17	--	--	--	--	--	--	--	--	--
DEC 17-FEB 04 <sup>1</sup>	1,268	41	1.8	62	--	.56	.960	.68	1.60
FEB 04-MAR 05	1,200	25	.6	--	54	.40	.410	.52	.92
MAR 05-APR 08	1,210	16	.1	--	47	.57	.520	.64	1.20
APR 08-MAY 06	1,200	62	.1	--	68	.61	.430	.89	1.30
MAY 06-JUN 03	1,445	16	--	--	59	.29	.510	.85	1.40
JUN 03-JUL 08	1,220	54	.2	--	37	.85	.430	2.4	2.80
JUL 08-AUG 05	1,315	64	3.4	--	85	.60	.510	1.4	2.00
AUG 05-SEP 02	1,365	59	1.6	--	76	.50	.450	1.0	1.50
SEP 02-OCT 01	1,210	100	.4	--	74	.62	.790	2.5	3.30

DATE	NITRO- GEN, TOTAL (MG AS N)	PHOS- PHORUS, TOTAL (MG AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG AS P)	CADMIUM TOTAL RECOV- ERABLE (UG AS CD)	COPPER, TOTAL RECOV- ERABLE (UG AS CU)	IRON, TOTAL RECOV- ERABLE (UG AS FE)	LEAD, TOTAL RECOV- ERABLE (UG AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG AS MN)	ZINC, TOTAL RECOV- ERABLE (UG AS ZN)	CARBON, ORGANIC TOTAL (MG AS C)
OCT 29-DEC 17	--	--	--	--	--	--	--	--	--	--
DEC 17-FEB 04 <sup>1</sup>	2.2	.080	.080	1	11	2,500	100	76	76	12
FEB 04-MAR 05	1.3	.120	.040	1	11	1,800	80	48	48	4
MAR 05-APR 08	1.7	.140	.040	0	7	1,500	35	48	73	6
APR 08-MAY 06	1.9	.170	.050	0	12	2,000	32	60	60	6
MAY 06-JUN 03	1.6	.120	.070	1	7	1,100	30	43	58	4
JUN 03-JUL 08	3.7	.450	.260	0	12	2,600	37	73	73	11
JUL 08-AUG 05	2.6	.320	.100	1	16	2,000	36	53	92	10
AUG 05-SEP 02	2.0	.140	.070	1	160	2,200	41	55	96	7
SEP 02-OCT 01	3.9	.480	.330	1	15	1,500	30	48	120	9

<sup>1</sup>Combined wetfall and dryfall atmospheric-deposition samples

Table 180.--Wetfall atmospheric-deposition data for station  
394236105042400 Villa Italia Storm Drain at Lakewood

[Sample-collection dates, October 1980 to October 1981]

DATE	AMOUNT OF RINSE WATER, IN LITERS	EXPO- SURE AREA (SQ CM)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH	ALKA- LITY (MG/L AS CAC03)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 30-DEC 16	--	650	18	6.0	--	18	--	4	--	.46	.750	.45
DEC 16-FEB 03	1.06	650	--	--	--	27	.8	61	--	.13	.160	.23
FEB 03-MAR 03	.775	650	--	--	--	15	.1	5	--	.06	.140	.39
MAR 03-APR 07	--	650	9	5.5	--	6	--	--	7	.57	.360	1.1
APR 07-MAY 05	--	650	13	5.3	--	44	--	--	0	.31	.430	.87
MAY 05-JUN 02	--	650	12	5.0	--	0	--	--	0	.30	.320	.45
JUN 02-JUL 07	--	650	--	--	--	34	.0	--	31	.45	.420	.68
JUL 07-AUG 04	--	650	15	4.6	--	0	--	--	6	.47	.580	.82
AUG 04-SEP 01	--	650	25	4.2	5.0	30	--	--	6	.68	.660	.17
SEP 01-OCT 01	--	650	31	4.6	--	58	--	--	28	.46	.720	.38

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 30-DEC 16	1.20	1.7	.030	.030	.010	2	7	90	27	10	40	2.0
DEC 16-FEB 03	.39	.52	.060	.060	.060	1	6	--	71	40	50	5.2
FEB 03-MAR 03	.53	.59	.110	.110	.030	0	2	170	33	10	10	1.1
MAR 03-APR 07	1.50	2.1	.190	.190	.030	1	17	80	92	10	40	1.4
APR 07-MAY 05	1.30	1.6	.020	.020	.010	0	4	10	10	0	10	1.1
MAY 05-JUN 02	.77	1.1	.220	.220	.180	1	2	20	7	1	0	.8
JUN 02-JUL 07	1.10	1.6	.050	.050	.030	1	3	350	23	20	50	3.6
JUL 07-AUG 04	1.40	1.9	.130	.130	.010	1	6	200	16	0	30	2.3
AUG 04-SEP 01	.83	1.5	.030	.030	.020	0	3	60	44	10	20	2.0
SEP 01-OCT 01	1.10	1.6	.010	.010	.010	1	9	280	14	10	50	2.3

Table 181.--Dryfall atmospheric-deposition data for station  
394236105042400 Villa Italia Storm Drain at Lakewood

[Sample-collection dates, October 1980 to October 1981]

DATE	TOTAL VOLUME (ML)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG)	CHLO- RIDE, (MG)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG)	NITRO- GEN, NO <sup>2</sup> +NO <sup>3</sup> TOTAL (MG AS N)	NITRO- GEN, AMMONIA TOTAL (MG AS N)	NITRO- GEN, ORGANIC TOTAL (MG AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG AS N)
OCT 30-DEC 16	1,200	110	4.1	180	--	1.0	1.10	1.0	2.20
DEC 16-FEB 03	1,213	150	7.0	200	--	.95	.960	.62	1.60
FEB 03-MAR 03	1,160	59	1.9	--	120	.49	.340	.82	1.20
MAR 03-APR 07	1,200	49	.7	--	--	.68	.430	1.3	1.80
APR 07-MAY 05	1,200	84	7.8	--	160	.48	.320	1.1	1.40
MAY 05-JUN 02	1,245	39	5.0	--	68	.45	.450	.68	1.10
JUN 02-JUL 07	1,341	70	.1	--	70	.76	.280	1.5	1.70
JUL 07-AUG 04	1,350	74	.1	--	90	.66	.470	1.5	1.90
AUG 04-SEP 01	1,345	78	6.5	--	58	.86	.770	.85	1.60
SEP 01-OCT 01	1,230	110	.6	--	110	.66	.700	3.4	4.20

DATE	NITRO- GEN, TOTAL (MG AS N)	PHOS- PHORUS, TOTAL (MG AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG AS P)	CADMIUM TOTAL RECOV- ERABLE (UG AS CD)	COPPER, TOTAL RECOV- ERABLE (UG AS CU)	IRON, TOTAL RECOV- ERABLE (UG AS FE)	LEAD, TOTAL RECOV- ERABLE (UG AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG AS MN)	ZINC, TOTAL RECOV- ERABLE (UG AS ZN)	CARBON, ORGANIC TOTAL (MG AS C)
OCT 30-DEC 16	3.2	.080	.040	4	29	4,100	320	110	230	20
DEC 16-FEB 03	2.5	.120	.120	4	34	7,200	86	190	330	16
FEB 03-MAR 03	1.6	.190	.050	1	13	2,900	140	81	150	8
MAR 03-APR 07	2.5	.230	.040	1	20	2,800	110	72	130	10
APR 07-MAY 05	1.9	.170	.080	0	13	1,600	66	60	130	10
MAY 05-JUN 02	1.6	.190	.090	1	19	2,200	120	75	140	9
JUN 02-JUL 07	2.5	.220	.090	1	16	2,700	98	80	130	10
JUL 07-AUG 04	2.6	.260	.010	1	23	2,300	80	81	140	12
AUG 04-SEP 01	2.4	.050	--	1	17	3,500	110	110	120	8
SEP 01-OCT 01	4.8	.280	.230	1	23	3,600	120	98	200	11

## PRIORITY POLLUTANTS DATA FOR DENVER REGIONAL URBAN RUNOFF PROGRAM

Priority pollutants data are presented for the following stations:

Station number and name	Table
06710225 Big Dry Creek tributary at Easter Street-----	182-185
06711586 Asbury Park Storm Drain-----	186-187
06711635 North Avenue Storm Drain at Denver Federal Center-----	188-191
394236105042400 Villa Italia Storm Drain-----	192-195

Priority pollutants were collected by the U.S. Geological Survey and were analyzed by the Rocky Mountain Analytical Laboratory.

Definitions of abbreviations not defined in the tables are:

mg/l=milligram per liter  
ug/l=microgram per liter

Table 182.--Priority pollutants data 1345, May 26, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton  
[Discrete sample]

METALS, CYANIDE AND TOTAL PHENOLS mg/l		PESTICIDES ug/l		VOLATILE COMPOUNDS ug/l	
Antimony, Total (7440-36-0)	ND	4,4'-DDT (50-29-3)	ND	Acrolein (107-02-8)	ND
Arsenic, Total (7440-38-2)	ND	4,4'-DDE (72-55-9)	ND	Acrylonitrile (107-13-1)	ND
Beryllium, Total (7440-41-7)	ND	4,4'-DDD (72-54-8)	ND	Benzene (71-43-2)	ND
Cadmium, Total (7440-43-9)	ND	Dieldrin (60-57-1)	ND	Bis ( <i>Chloromethyl</i> ) Ether (542-88-1)	ND
Chromium, Total (7440-47-3)	ND	$\alpha$ -Endosulfan (115-29-7)	ND	Bromoform (75-25-2)	ND
Copper, Total (7550-50-8)	0.026	$\beta$ -Endosulfan (115-29-7)	ND	Carbon Tetrachloride (56-23-5)	ND
Lead, Total (7439-92-1)	0.133	Endosulfan Sulfate (1031-07-8)	ND	Chlorobenzene (108-90-7)	ND
Mercury, Total (7439-97-6)	ND	Endrin (72-20-8)	ND	Chlorodibromomethane (124-48-1)	ND
Nickel, Total (7440-02-0)	0.018	Endrin Aldehyde (7421-93-4)	ND	Chloroethane (75-00-3)	ND
Selenium, Total (7782-49-2)	ND	Heptachlor (76-44-8)	ND	2-Chloroethylvinyl Ether (110-75-8)	ND
Silver, Total (7440-22-4)	ND	Heptachlor Epoxide (1024-57-3)	ND	Chloroform (67-66-3)	ND
Thallium, Total (7440-28-0)	ND	PCB-1242 (53469-21-9)	ND	Dichlorobromomethane (75-27-4)	ND
Zinc, Total (7440-66-6)	0.546	PCB-1254 (11097-69-1)	ND	Dichlorodifluoromethane (75-71-8)	ND
Cyanide, Total (57-12-5)	ND	PCB-1221 (11104-28-2)	ND	1,1-Dichloroethane (75-34-3)	ND
Phenols, Total		PCB-1232 (11141-16-5)	ND	1,2-Dichloroethane (107-06-2)	ND
		PCB-1248 (12672-29-6)	ND	1,1-Dichloroethylene (75-35-4)	ND
		PCB-1260 (11096-82-5)	ND	1,2-Dichloropropane (78-87-5)	ND
		PCB-1016 (12674-11-2)	ND	1,3-Dichloropropylene (542-75-6)	ND
		Toxaphene (8001-35-2)	ND	Ethylbenzene (100-41-4)	ND
				Methyl Bromide (74-83-9)	ND
				Methyl Chloride (74-87-3)	ND
				Methylene Chloride (75-09-2)	ND
				1,1,2,2-Tetrachloroethane (79-34-5)	ND
				Tetrachloroethylene (127-18-4)	ND

PESTICIDES ug/l	
Aldrin (309-00-2)	ND
$\alpha$ -BHC (319-84-6)	0.018
$\beta$ -BHC (319-85-7)	ND
$\gamma$ -BHC (58-89-9)	0.017
$\delta$ -BHC 319-86-8)	ND
Chlordane (57-74-9)	ND

DIOXIN ug/l	
2,3,7,8 Tetrachlorodibenzo-P- Dioxin (1764-01-6)	ND

ND - Not detected  
BLANK - Not analyzed

Table 182.--Priority pollutants data 1345, May 26, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton  
[Discrete sample]--Continued

VOLATILE COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l	
Toluene (108-88-3)	ND	2-Chloronaphthalene (91-58-7)	ND	Nitrobenzene (98-95-3)	ND
1,2 Trans-Dichloroethylene (156-60-5)	ND	4-Chlorophenyl Phenyl Ether (7005-72-3)	ND	N-Nitrosodimethylamine (62-75-9)	ND
1,1,1-Trichloroethane (71-55-6)	3	Chrysene (218-01-9)	ND	N-Nitrosodi-N-Propylamine (621-64-7)	ND
1,1,2-Trichloroethane (79-00-5)	ND	Dibenzo (a,h) Anthracene (53-70-3)	ND	N-Nitrosodiphenylamine (86-30-6)	ND
Trichloroethylene (79-01-6)	ND	1,2-Dichlorobenzene (95-50-1)	ND	Phenanthrene (85-01-8)	ND
Trichlorofluoromethane (75-69-4)	ND	1,3-Dichlorobenzene (541-73-1)	ND	Pyrene (129-00-0)	ND
Vinyl Chloride (75-01-4)	ND	1,4-Dichlorobenzene (106-46-7)	ND	1,2,4-Trichlorobenzene (120-82-1)	ND
		3,3'-Dichlorobenzidine (91-94-1)	ND		
		Diothyl Phthalate (84-66-2)	ND		
		Dimethyl Phthalate (131-11-3)	ND		
		Di-N-Butyl Phthalate (84-74-2)	ND		
		2,4-Dinitrotoluene (121-14-2)	ND		
		2,6-Dinitrotoluene (606-20-2)	ND		
		Di-N-Octyl Phthalate (117-84-0)	ND		
		1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	ND		
		Fluoranthene (206-44-0)	ND		
		Fluorene (86-73-7)	ND		
		Hexachlorobenzene (118-71-1)	ND		
		Hexachlorobutadiene (87-68-3)	ND		
		Hexachlorocyclopentadiene (77-47-4)	ND		
		Hexachloroethane (67-72-1)	ND		
		Indeno (1,2,3-cd) Pyrene (193-39-5)	ND		
		Isophorone (78-59-1)	ND		
		Naphthalene (91-20-3)	ND		
BASE/NEUTRAL COMPOUNDS ug/l		ACID COMPOUNDS ug/l			
Acenaphthene (83-32-9)	ND	2-Chloropheno (95-57-8)	ND		
Acenaphthylene (208-96-8)	ND	2,4-Dichlorophenol (120-83-2)	10		
Anthracene (120-12-7)	ND	2,4-Dimethylphenol (105-67-9)	ND		
Benzidine (92-87-5)	ND	4,6-Dinitro-O-Cresol (534-52-1)	ND		
Benzo (a) Anthracene (56-55-3)	ND	2,4-Dinitrophenol (51-28-5)	ND		
Benzo (a) Pyrene (50-32-8)	ND	2-Nitrophenol (88-75-5)	ND		
3,4-Benzofluoranthene (205-99-2)	ND	4-Nitrophenol (100-02-7)	ND		
Benzo (ghi) Perylene (191-24-2)	ND	P-Chloro-M-Cresol (59-50-7)	ND		
Benzo (k) Fluoranthene (207-08-9)	ND	Pentachlorophenol (87-86-5)	10		
Bis (2-Chloroethoxy) Methane (111-91-1)	ND	Phenol (108-95-2)	ND		
Bis (2-Chloroethyl) Ether (111-44-4)	ND	2,4,6-Trichlorophenol (88-06-2)	ND		
Bis (2-Chloroisopropyl) Ether (39638-32-9)	ND				
Bis (2-Ethylhexyl) Phthalate (117-81-7)	ND				
4-Bromophenyl Phenyl Ether (101-55-3)	ND				
Butyl Benzyl Phthalate (85-68-7)	ND				

ND - Not detected  
BLANK - Not analyzed

Table 183.--Priority pollutants data 1345-1553, May 26, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton  
[Composite sample]

METALS, CYANIDE AND TOTAL PHENOLS mg/l		PESTICIDES ug/l		VOLATILE COMPOUNDS ug/l	
Antimony, Total (7440-36-0)	ND	4,4'-DDT (50-29-3)	ND	Acrolein (107-02-8)	ND
Arsenic, Total (7440-38-2)	ND	4,4'-DDE (72-55-9)	ND	Acrylonitrile (107-13-1)	ND
Beryllium, Total (7440-41-7)	ND	4,4'-DDD (72-54-8)	ND	Benzene (71-43-2)	ND
Cadmium, Total (7440-43-9)	ND	Dieldrin (60-57-1)	ND	Bis ( <i>Chloromethyl</i> ) Ether (542-88-1)	ND
Chromium, Total (7440-47-3)	ND	$\alpha$ -Endosulfan (115-29-7)	ND	Bromoform (75-25-2)	ND
Copper, Total (7550-50-8)	0.037	$\beta$ -Endosulfan (115-29-7)	ND	Carbon Tetrachloride (56-23-5)	ND
Lead, Total (7439-92-1)	0.267	Endosulfan Sulfate (1031-07-8)	ND	Chlorobenzene (108-90-7)	ND
Mercury, Total (7439-97-6)	ND	Endrin (72-20-8)	ND	Chlorodibromomethane (124-48-1)	ND
Nickel, Total (7440-02-0)	ND	Endrin Aldehyde (7421-93-4)	ND	Chloroethane (75-00-3)	ND
Selenium, Total (7782-49-2)	0.023	Heptachlor (76-44-8)	ND	2-Chloroethylvinyl Ether (110-75-8)	ND
Silver, Total (7440-22-4)	ND	Heptachlor Epoxide (1024-57-3)	ND	Chloroform (67-66-3)	ND
Thallium, Total (7440-28-0)	ND	PCB-1242 (53469-21-9)	ND	Dichlorobromomethane (75-27-4)	ND
Zinc, Total (7440-66-6)	0.265	PCB-1254 (11097-69-1)	ND	Dichlorodifluoromethane (75-71-8)	ND
Cyanide, Total (57-12-5)	ND	PCB-1221 (11104-28-2)	ND	1,1-Dichloroethane (75-34-3)	ND
Phenols, Total		PCB-1232 (11141-16-5)	ND	1,2-Dichloroethane (107-06-2)	ND
		PCB-1248 (12672-29-6)	ND	1,1-Dichloroethylene (75-35-4)	ND
		PCB-1260 (11096-82-5)	ND	1,2-Dichloropropane (78-87-5)	ND
		PCB-1016 (12674-11-2)	ND	1,3-Dichloropropylene (542-75-6)	ND
		Toxaphene (8001-35-2)	ND	Ethylbenzene (100-41-4)	ND
				Methyl Bromide (74-83-9)	ND
				Methyl Chloride (74-87-3)	ND
				Methylene Chloride (75-09-2)	ND
				1,1,2,2-Tetrachloroethane (79-34-5)	ND
				Tetrachloroethylene (127-18-4)	ND

PESTICIDES ug/l	
Aldrin (309-00-2)	ND
$\alpha$ -BHC (319-84-6)	0.030
$\beta$ -BHC (319-85-7)	ND
$\gamma$ -BHC (58-89-9)	ND
$\delta$ -BHC 319-86-8)	ND
Chlordane (57-74-9)	ND

DIOXIN ug/l	
2,3,7,8 Tetrachlorodibenzo-P-Dioxin (1764-01-6)	ND

ND - Not detected  
BLANK - Not analyzed



Table 183.--Priority pollutants data 1345-1553, May 26, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton  
[Composite sample]--Continued

VOLATILE COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l	
Toluene (108-88-3)	ND	2-Chloronaphthalene (91-58-7)	ND	Nitrobenzene (98-95-3)	ND
1,2 Trans-Dichloroethylene (156-60-5)	ND	4-Chlorophenyl Phenyl Ether (7005-72-3)	ND	N-Nitrosodimethylamine (62-75-9)	ND
1,1,1-Trichloroethane (71-55-6)	ND	Chrysene (218-01-9)	ND	N-Nitrosodi-N-Propylamine (621-64-7)	ND
1,1,2-Trichloroethane (79-00-5)	ND	Dibenzo (a,h) Anthracene (53-70-3)	ND	N-Nitrosodiphenylamine (86-30-6)	ND
Trichloroethylene (79-01-6)	ND	1,2-Dichlorobenzene (95-50-1)	ND	Phenanthrene (85-01-8)	ND
Trichlorofluoromethane (75-69-4)	ND	1,3-Dichlorobenzene (541-73-1)	ND	Pyrene (129-00-0)	ND
Vinyl Chloride (75-01-4)	ND	1,4-Dichlorobenzene (106-46-7)	ND	1,2,4-Trichlorobenzene (120-82-1)	ND
		3,3'-Dichlorobenzidine (91-94-1)	ND		
		Diethyl Phthalate (84-66-2)	ND	ACID COMPOUNDS ug/l	
BASE/NEUTRAL COMPOUNDS ug/l		Dimethyl Phthalate (131-11-3)	ND	2-Chloropheno (95-57-8)	ND
Acenaphthene (83-32-9)	ND	Di-N-Butyl Phthalate (84-74-2)	ND	2,4-Dichlorophenol (120-83-2)	ND
Acenaphthylene (208-96-8)	ND	2,4-Dinitrotoluene (121-14-2)	ND	2,4-Dimethylphenol (105-67-9)	ND
Anthracene (120-12-7)	ND	2,6-Dinitrotoluene (606-20-2)	ND	4,6-Dinitro-O-Cresol (534-52-1)	ND
Benzidine (92-87-5)	ND	Di-N-Octyl Phthalate (117-84-0)	ND	2,4-Dinitrophenol (51-28-5)	ND
Benzo (a) Anthracene (56-55-3)	ND	1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	ND	2-Nitrophenol (88-75-5)	ND
Benzo (a) Pyrene (50-32-8)	ND	Fluoranthene (206-44-0)	ND	4-Nitrophenol (100-02-7)	ND
3,4-Benzofluoranthene (205-99-2)	ND	Fluorene (86-73-7)	ND	P-Chloro-M-Cresol (59-50-7)	ND
Benzo (ghi) Perylene (191-24-2)	ND	Hexachlorobenzene (118-71-1)	ND	Pentachlorophenol (87-86-5)	ND
Benzo (k) Fluoranthene (207-08-9)	ND	Hexachlorobutadiene (87-68-3)	ND	Phenol (108-95-2)	ND
Bis (2-Chloroethoxy) Methane (111-91-1)	ND	Hexachlorocyclopentadiene (77-47-4)	ND	2,4,6-Trichlorophenol (88-06-2)	ND
Bis (2-Chloroethyl) Ether (111-44-4)	ND	Hexachloroethane (67-72-1)	ND	ND - Not detected BLANK - Not analyzed	
Bis (2-Chloroisopropyl) Ether (39638-32-9)	ND	Indeno (1,2,3-cd) Pyrene (193-39-5)	ND		
Bis (2-Ethylhexyl) Phthalate (117-81-7)	ND	Isophorone (78-59-1)	ND		
4-Bromophenyl Phenyl Ether (101-55-3)	ND	Naphthalene (91-20-3)	ND		
Butyl Benzyl Phthalate (85-68-7)	ND				

Table 184.--Priority pollutants data 2030, August 13, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton  
[Discrete sample]

METALS, CYANIDE AND TOTAL PHENOLS mg/l		PESTICIDES ug/l		VOLATILE COMPOUNDS ug/l	
Antimony, Total (7440-36-0)	ND	4,4'-DDT (50-29-3)	ND	Acrolein (107-02-8)	ND
Arsenic, Total (7440-38-2)	0.002	4,4'-DDE (72-55-9)	ND	Acrylonitrile (107-13-1)	ND
Beryllium, Total (7440-41-7)	ND	4,4'-DDD (72-54-8)	ND	Benzene (71-43-2)	ND
Cadmium, Total (7440-43-9)	ND	Dieldrin (60-57-1)	ND	Bis ( <i>Chloromethyl</i> ) Ether (542-88-1)	ND
Chromium, Total (7440-47-3)	ND	$\alpha$ -Endosulfan (115-29-7)	ND	Bromoform (75-25-2)	ND
Copper, Total (7550-50-8)	0.029	$\beta$ -Endosulfan (115-29-7)	ND	Carbon Tetrachloride (56-23-5)	ND
Lead, Total (7439-92-1)	ND	Endosulfan Sulfate (1031-07-8)	ND	Chlorobenzene (108-90-7)	ND
Mercury, Total (7439-97-6)	ND	Endrin (72-20-8)	ND	Chlorodibromomethane (124-48-1)	ND
Nickel, Total (7440-02-0)	ND	Endrin Aldehyde (7421-93-4)	ND	Chloroethane (75-00-3)	ND
Selenium, Total (7782-49-2)	ND	Heptachlor (76-44-8)	ND	2-Chloroethylvinyl Ether (110-75-8)	ND
Silver, Total (7440-22-4)	ND	Heptachlor Epoxide (1024-57-3)	ND	Chloroform (67-66-3)	ND
Thallium, Total (7440-28-0)	ND	PCB-1242 (53469-21-9)	ND	Dichlorobromomethane (75-27-4)	ND
Zinc, Total (7440-66-6)	0.10	PCB-1254 (11097-69-1)	ND	Dichlorodifluoromethane (75-71-8)	ND
Cyanide, Total (57-12-5)	ND	PCB-1221 (11104-28-2)	ND	1,1-Dichloroethane (75-34-3)	ND
Phenols, Total		PCB-1232 (11141-16-5)	ND	1,2-Dichloroethane (107-06-2)	ND
		PCB-1248 (12672-29-6)	ND	1,1-Dichloroethylene (75-35-4)	ND
		PCB-1260 (11096-82-5)	ND	1,2-Dichloropropane (78-87-5)	ND
		PCB-1016 (12674-11-2)	ND	1,3-Dichloropropylene (542-75-6)	ND
		Toxaphene (8001-35-2)	ND	Ethylbenzene (100-41-4)	ND
				Methyl Bromide (74-83-9)	ND
				Methyl Chloride (74-87-3)	ND
				Methylene Chloride (75-09-2)	ND
				1,1,2,2-Tetrachloroethane (79-34-5)	ND
				Tetrachloroethylene (127-18-4)	ND
PESTICIDES ug/l		DIOXIN ug/l			
Aldrin (309-00-2)	ND	2,3,7,8 Tetrachlorodibenzo-P- Dioxin (1764-01-6)	ND		
$\alpha$ -BHC (319-84-8)	0.028				
$\beta$ -BHC (319-85-7)	ND				
$\gamma$ -BHC (58-89-9)	0.0093				
$\delta$ -BHC 319-86-8)	ND				
Chlordane (57-74-9)	ND				

ND - Not detected  
BLANK - Not analyzed

Table 184.--Priority pollutants data 2030, August 13, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton  
[Discrete sample]--Continued

VOLATILE COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l	
Toluene (108-88-3)	ND	2-Chloronaphthalene (91-58-7)	ND	Nitrobenzene (98-95-3)	ND
1,2 Trans-Dichloroethylene (156-60-5)	ND	4-Chlorophenyl Phenyl Ether (7005-72-3)	ND	N-Nitrosodimethylamine (62-75-9)	ND
1,1,1-Trichloroethane (71-55-6)	ND	Chrysene (218-01-9)	ND	N-Nitrosodi-N-Propylamine (621-64-7)	ND
1,1,2-Trichloroethane (79-00-5)	ND	Dibenzo (a,h) Anthracene (53-70-3)	ND	N-Nitrosodiphenylamine (86-30-6)	ND
Trichloroethylene (79-01-6)	ND	1,2-Dichlorobenzene (95-50-1)	ND	Phenanthrene (85-01-8)	ND
Trichlorofluoromethane (75-69-4)	ND	1,3-Dichlorobenzene (541-73-1)	ND	Pyrene (129-00-0)	ND
Vinyl Chloride (75-01-4)	ND	1,4-Dichlorobenzene (106-46-7)	ND	1,2,4-Trichlorobenzene (120-82-1)	ND
		3,3'-Dichlorobenzidine (91-94-1)	ND		
		Diethyl Phthalate (84-66-2)	ND		
BASE/NEUTRAL COMPOUNDS ug/l				ACID COMPOUNDS ug/l	
Acenaphthene (83-32-9)	ND	Dimethyl Phthalate (131-11-3)	ND	2-Chloropheno (95-57-8)	ND
Acenaphthylene (208-96-8)	ND	Di-N-Butyl Phthalate (84-74-2)	ND	2,4-Dichlorophenol (120-83-2)	ND
Anthracene (120-12-7)	ND	2,4-Dinitrotoluene (121-14-2)	ND	2,4-Dimethylphenol (105-67-9)	ND
Benzidine (92-87-5)	ND	2,6-Dinitrotoluene (606-20-2)	ND	4,6-Dinitro-O-Cresol (534-52-1)	ND
Benzo (a) Anthracene (56-55-3)	ND	Di-N-Octyl Phthalate (117-84-0)	ND	2,4-Dinitrophenol (51-28-5)	ND
Benzo (a) Pyrene (50-32-8)	ND	1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	ND	2-Nitrophenol (88-75-5)	ND
3,4-Benzofluoranthene (205-99-2)	ND	Fluoranthene (206-44-0)	ND	4-Nitrophenol (100-02-7)	ND
Benzo (ghi) Perylene (191-24-2)	ND	Fluorene (86-73-7)	ND	P-Chloro-M-Cresol (59-50-7)	ND
Benzo (k) Fluoranthene (207-08-9)	ND	Hexachlorobenzene (118-71-1)	ND	Pentachlorophenol (87-86-5)	ND
Bis (2-Chloroethoxy) Methane (111-91-1)	ND	Hexachlorobutadiene (87-68-3)	ND	Phenol (108-95-2)	ND
Bis (2-Chloroethyl) Ether (111-44-4)	ND	Hexachlorocyclopentadiene (77-47-4)	ND	2,4,6-Trichlorophenol (88-06-2)	ND
Bis (2-Chloroisopropyl) Ether (39638-32-9)	ND	Hexachloroethane (67-72-1)	ND		
Bis (2-Ethylhexyl) Phthalate (117-81-7)	13	Indeno (1,2,3-cd) Pyrene (193-39-5)	ND		
4-Bromophenyl Phenyl Ether (101-55-3)	ND	Isophorone (78-59-1)	ND		
Butyl Benzyl Phthalate (85-68-7)	ND	Naphthalene (91-20-3)	ND		

ND - Not detected  
BLANK - Not analyzed

Table 185.--Priority pollutants data 2030-2100, August 13, 1981, for station  
06710225 Big Dry Creek tributary at Easter Street, near Littleton  
[Composite sample]

METALS, CYANIDE AND TOTAL PHENOLS mg/l		PESTICIDES ug/l		VOLATILE COMPOUNDS ug/l	
Antimony, Total (7440-36-0)	ND	4,4'-DDT (50-29-3)	ND	Acrolein (107-02-8)	ND
Arsenic, Total (7440-38-2)	0.008	4,4'-DDE (72-55-9)	ND	Acrylonitrile (107-13-1)	ND
Beryllium, Total (7440-41-7)	ND	4,4'-DDD (72-54-8)	ND	Benzene (71-43-2)	ND
Cadmium, Total (7440-43-9)	ND	Dieldrin (60-57-1)	ND	Bis ( <i>Chloromethyl</i> ) Ether (542-88-1)	ND
Chromium, Total (7440-47-3)	ND	$\alpha$ -Endosulfan (115-29-7)	ND	Bromoform (75-25-2)	ND
Copper, Total (7550-50-8)	0.030	$\beta$ -Endosulfan (115-29-7)	ND	Carbon Tetrachloride (56-23-5)	ND
Lead, Total (7439-92-1)	0.067	Endosulfan Sulfate (1031-07-8)	ND	Chlorobenzene (108-90-7)	ND
Mercury, Total (7439-97-6)	ND	Endrin (72-20-8)	ND	Chlorodibromomethane (124-48-1)	ND
Nickel, Total (7440-02-0)	ND	Endrin Aldehyde (7421-93-4)	ND	Chloroethane (75-00-3)	ND
Selenium, Total (7782-49-2)	0.002	Heptachlor (76-44-8)	ND	2-Chloroethylvinyl Ether (110-75-8)	ND
Silver, Total (7440-22-4)	ND	Heptachlor Epoxide (1024-57-3)	ND	Chloroform (67-66-3)	ND
Thallium, Total (7440-28-0)	ND	PCB-1242 (53469-21-9)	ND	Dichlorobromomethane (75-27-4)	ND
Zinc, Total (7440-66-6)	0.11	PCB-1254 (11097-69-1)	ND	Dichlorodifluoromethane (75-71-8)	ND
Cyanide, Total (57-12-5)	ND	PCB-1221 (11104-28-2)	ND	1,1-Dichloroethane (75-34-3)	ND
Phenols, Total		PCB-1232 (11141-16-5)	ND	1,2-Dichloroethane (107-06-2)	ND
		PCB-1248 (12672-29-6)	ND	1,1-Dichloroethylene (75-35-4)	ND
		PCB-1260 (11096-82-5)	ND	1,2-Dichloropropane (78-87-5)	ND
		PCB-1016 (12674-11-2)	ND	1,3-Dichloropropylene (542-75-6)	ND
		Toxaphene (8001-35-2)	ND	Ethylbenzene (100-41-4)	ND
				Methyl Bromide (74-83-9)	ND
				Methyl Chloride (74-87-3)	ND
				Methylene Chloride (75-09-2)	ND
				1,1,2,2-Tetrachloroethane (79-34-5)	ND
				Tetrachloroethylene (127-18-4)	ND

PESTICIDES ug/l		DIOXIN ug/l	
Aldrin (309-00-2)	ND	2,3,7,8 Tetrachlorodibenzo-P- Dioxin (1764-01-6)	ND
$\alpha$ -BHC (319-84-6)	0.0027		
$\beta$ -BHC (319-85-7)	ND		
$\gamma$ -BHC (58-89-9)	ND		
$\delta$ -BHC 319-86-8)	ND		
Chlordane (57-74-9)	ND		

ND - Not detected  
BLANK - Not analyzed

Table 185.--Priority pollutants data 2030-2100, August 13, 1981, for station 06710225 Big Dry Creek tributary at Easter Street, near Littleton [Composite sample]--Continued

VOLATILE COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l	
Toluene (108-88-3)	ND	2-Chloronaphthalene (91-58-7)	ND	Nitrobenzene (98-95-3)	ND
1,2 Trans-Dichloroethylene (156-60-5)	ND	4-Chlorophenyl Phenyl Ether (7005-72-3)	ND	N-Nitrosodimethylamine (62-75-9)	ND
1,1,1-Trichloroethane (71-55-6)	1	Chrysene (218-01-9)	ND	N-Nitrosodi-N-Propylamine (621-64-7)	ND
1,1,2-Trichloroethane (79-00-5)	ND	Dibenzo ( <i>a,h</i> ) Anthracene (53-70-3)	ND	N-Nitrosodiphenylamine (86-30-6)	ND
Trichloroethylene (79-01-6)	ND	1,2-Dichlorobenzene (95-50-1)	ND	Phenanthrene (85-01-8)	ND
Trichlorofluoromethane (75-69-4)	ND	1,3-Dichlorobenzene (541-73-1)	ND	Pyrene (129-00-0)	ND
Vinyl Chloride (75-01-4)	ND	1,4-Dichlorobenzene (106-46-7)	ND	1,2,4-Trichlorobenzene (120-82-1)	ND
		3,3'-Dichlorobenzidine (91-94-1)	ND		
		Diothyl Phthalate (84-66-2)	ND		
BASE/NEUTRAL COMPOUNDS ug/l				ACID COMPOUNDS ug/l	
Acenaphthene (83-32-9)	ND	Dimethyl Phthalate (131-11-3)	ND	2-Chloropheno (95-57-8)	ND
Acenaphthylene (208-96-8)	ND	Di-N-Butyl Phthalate (84-74-2)	ND	2,4-Dichlorophenol (120-83-2)	ND
Anthracene (120-12-7)	ND	2,4-Dinitrotoluene (121-14-2)	ND	2,4-Dimethylphenol (105-67-9)	ND
Benzidine (92-87-5)	ND	2,6-Dinitrotoluene (606-20-2)	ND	4,6-Dinitro-O-Cresol (534-52-1)	ND
Benzo ( <i>a</i> ) Anthracene (56-55-3)	ND	Di-N-Octyl Phthalate (117-84-0)	ND	2,4-Dinitrophenol (51-28-5)	ND
Benzo ( <i>a</i> ) Pyrene (50-32-8)	ND	1,2-Diphenylhydrazine ( <i>as Azobenzene</i> ) (122-66-7)	ND	2-Nitrophenol (88-75-5)	ND
3,4-Benzofluoranthene (205-99-2)	ND	Fluoranthene (206-44-0)	ND	4-Nitrophenol (100-02-7)	ND
Benzo ( <i>ghi</i> ) Perylene (191-24-2)	ND	Fluorene (86-73-7)	ND	P-Chloro-M-Cresol (59-50-7)	ND
Benzo ( <i>k</i> ) Fluoranthene (207-08-9)	ND	Hexachlorobenzene (118-71-1)	ND	Pentachlorophenol (87-86-5)	ND
Bis (2-Chloroethoxy) Methane (111-91-1)	ND	Hexachlorobutadiene (87-68-3)	ND	Phenol (108-95-2)	ND
Bis (2-Chloroethyl) Ether (111-44-4)	ND	Hexachlorocyclopentadiene (77-47-4)	ND	2,4,6-Trichlorophenol (88-06-2)	ND
Bis (2-Chloroisopropyl) Ether (39638-32-9)	ND	Hexachloroethane (67-72-1)	ND		
Bis (2-Ethylhexyl) Phthalate (117-81-7)	39	Indeno (1,2,3- <i>cd</i> ) Pyrene (193-39-5)	ND		
4-Bromophenyl Phenyl Ether (101-55-3)	ND	Isophorone (78-59-1)	ND		
Butyl Benzyl Phthalate (85-68-7)	ND	Naphthalene (91-20-3)	ND		

ND - Not detected  
BLANK - Not analyzed

Table 186.--Priority pollutants data 1405, May 28, 1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver  
[Discrete sample]

METALS, CYANIDE AND TOTAL PHENOLS mg/l		PESTICIDES ug/l		VOLATILE COMPOUNDS ug/l	
Antimony, Total (7440-36-0)	0.002	4,4'-DDT (50-29-3)	ND	Acrolein (107-02-8)	ND
Arsenic, Total (7440-38-2)	ND	4,4'-DDE (72-55-9)	ND	Acrylonitrile (107-13-1)	ND
Beryllium, Total (7440-41-7)	ND	4,4'-DDD (72-54-8)	ND	Benzene (71-43-2)	ND
Cadmium, Total (7440-43-9)	ND	Dieldrin (60-57-1)	ND	Bis (Chloromethyl) Ether (542-88-1)	ND
Chromium, Total (7440-47-3)	ND	$\alpha$ -Endosulfan (115-29-7)	ND	Bromoform (75-25-2)	ND
Copper, Total (7550-50-8)	0.026	$\beta$ -Endosulfan (115-29-7)	ND	Carbon Tetrachloride (56-23-5)	ND
Lead, Total (7439-92-1)	0.267	Endosulfan Sulfate (1031-07-8)	ND	Chlorobenzene (108-90-7)	ND
Mercury, Total (7439-97-6)	ND	Endrin (72-20-8)	ND	Chlorodibromomethane (124-48-1)	ND
Nickel, Total (7440-02-0)	0.018	Endrin Aldehyde (7421-93-4)	ND	Chloroethane (75-00-3)	ND
Selenium, Total (7782-49-2)	ND	Heptachlor (76-44-8)	ND	2-Chloroethylvinyl Ether (110-75-8)	ND
Silver, Total (7440-22-4)	ND	Heptachlor Epoxide (1024-57-3)	ND	Chloroform (67-66-3)	ND
Thallium, Total (7440-28-0)	ND	PCB-1242 (53469-21-9)	ND	Dichlorobromomethane (75-27-4)	ND
Zinc, Total (7440-66-6)	0.281	PCB-1254 (11097-69-1)	ND	Dichlorodifluoromethane (75-71-8)	ND
Cyanide, Total (57-12-5)	ND	PCB-1221 (11104-28-2)	ND	1,1-Dichloroethane (75-34-3)	ND
Phenols, Total		PCB-1232 (11141-16-5)	ND	1,2-Dichloroethane (107-06-2)	ND
		PCB-1248 (12672-29-6)	ND	1,1-Dichloroethylene (75-35-4)	ND
		PCB-1260 (11096-82-5)	ND	1,2-Dichloropropane (78-87-5)	ND
		PCB-1016 (12674-11-2)	ND	1,3-Dichloropropylene (542-75-6)	ND
		Toxaphene (8001-35-2)	ND	Ethylbenzene (100-41-4)	ND
				Methyl Bromide (74-83-9)	ND
				Methyl Chloride (74-87-3)	ND
				Methylene Chloride (75-09-2)	ND
				1,1,2,2-Tetrachloroethane (79-34-5)	ND
				Tetrachloroethylene (127-18-4)	ND

PESTICIDES ug/l	
Aldrin (309-00-2)	ND
$\alpha$ -BHC (319-84-6)	0.050
$\beta$ -BHC (319-85-7)	ND
$\gamma$ -BHC (58-89-9)	ND
$\delta$ -BHC 319-86-8)	ND
Chlordane (57-74-9)	ND

DIOXIN ug/l	
2,3,7,8 Tetrachlorodibenzo-P-Dioxin (1764-01-6)	ND

ND - Not detected  
BLANK - Not analyzed

Table 186.--Priority pollutants data 1405, May 28, 1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver  
[Discrete sample]--Continued

VOLATILE COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l	
Toluene (108-88-3)	ND	2-Chloronaphthalene (91-58-7)	ND	Nitrobenzene (98-95-3)	ND
1,2 Trans-Dichloroethylene (156-60-5)	ND	4-Chlorophenyl Phenyl Ether (7005-72-3)	ND	N-Nitrosodimethylamine (62-75-9)	ND
1,1,1-Trichloroethane (71-55-6)	ND	Chrysene (218-01-9)	ND	N-Nitrosodi-N-Propylamine (621-64-7)	ND
1,1,2-Trichloroethane (79-00-5)	ND	Dibenzo (a,h) Anthracene (53-70-3)	ND	N-Nitrosodiphenylamine (86-30-6)	ND
Trichloroethylene (79-01-6)	ND	1,2-Dichlorobenzene (95-50-1)	ND	Phenanthrene (85-01-8)	ND
Trichlorofluoromethane (75-69-4)	ND	1,3-Dichlorobenzene (541-73-1)	ND	Pyrene (129-00-0)	ND
Vinyl Chloride (75-01-4)	ND	1,4-Dichlorobenzene (106-46-7)	ND	1,2,4-Trichlorobenzene (120-82-1)	ND
		3,3'-Dichlorobenzidine (91-94-1)	ND		
		Diethyl Phthalate (84-66-2)	ND		
		Dimethyl Phthalate (131-11-3)	ND		
		Di-N-Butyl Phthalate (84-74-2)	ND		
		2,4-Dinitrotoluene (121-14-2)	ND		
		2,6-Dinitrotoluene (606-20-2)	ND		
		Di-N-Octyl Phthalate (117-84-0)	ND		
		1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	ND		
		Fluoranthene (206-44-0)	ND		
		Fluorene (86-73-7)	ND		
		Hexachlorobenzene (118-71-1)	ND		
		Hexachlorobutadiene (87-68-3)	ND		
		Hexachlorocyclopentadiene (77-47-4)	ND		
		Hexachloroethane (67-72-1)	ND		
		Indeno (1,2,3-cd) Pyrene (193-39-5)	ND		
		Isophorone (78-59-1)	ND		
		Naphthalene (91-20-3)	ND		
BASE/NEUTRAL COMPOUNDS ug/l		ACID COMPOUNDS ug/l			
Acenaphthene (83-32-9)	ND	2-Chloropheno (95-57-8)	ND		
Acenaphthylene (208-96-8)	ND	2,4-Dichlorophenol (120-83-2)	ND		
Anthracene (120-12-7)	ND	2,4-Dimethylphenol (105-67-9)	ND		
Benzidine (92-87-5)	ND	4,6-Dinitro-O-Cresol (534-52-1)	ND		
Benzo (a) Anthracene (56-55-3)	ND	2,4-Dinitrophenol (51-28-5)	ND		
Benzo (a) Pyrene (50-32-8)	ND	2-Nitrophenol (88-75-5)	ND		
3,4-Benzofluoranthene (205-99-2)	ND	4-Nitrophenol (100-02-7)	ND		
Benzo (ghi) Perylene (191-24-2)	ND	P-Chloro-M-Cresol (59-50-7)	ND		
Benzo (k) Fluoranthene (207-08-9)	ND	Pentachlorophenol (87-86-5)	ND		
Bis (2-Chloroethoxy) Methane (111-91-1)	ND	Phenol (108-95-2)	ND		
Bis (2-Chloroethyl) Ether (111-44-4)	ND	2,4,6-Trichlorophenol (88-06-2)	ND		
Bis (2-Chloroisopropyl) Ether (39638-32-9)	ND				
Bis (2-Ethylhexyl) Phthalate (117-81-7)	12				
4-Bromophenyl Phenyl Ether (101-55-3)	ND				
Butyl Benzyl Phthalate (85-68-7)	ND				

ND - Not detected  
BLANK - Not analyzed

Table 187.--Priority pollutants data 1405-1455, May 28, 1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver  
[Composite sample]

METALS, CYANIDE AND TOTAL PHENOLS mg/l		PESTICIDES ug/l		VOLATILE COMPOUNDS ug/l	
Antimony, Total (7440-36-0)	ND	4,4'-DDT (50-29-3)	ND	Acrolein (107-02-8)	ND
Arsenic, Total (7440-38-2)	0.007	4,4'-DDE (72-55-9)	ND	Acrylonitrile (107-13-1)	ND
Beryllium, Total (7440-41-7)	ND	4,4'-DDD (72-54-8)	ND	Benzene (71-43-2)	ND
Cadmium, Total (7440-43-9)	ND	Dieldrin (60-57-1)	ND	Bis (Chloromethyl) Ether (542-88-1)	ND
Chromium, Total (7440-47-3)	ND	$\alpha$ -Endosulfan (115-29-7)	ND	Bromoform (75-25-2)	ND
Copper, Total (7550-50-8)	0.026	$\beta$ -Endosulfan (115-29-7)	ND	Carbon Tetrachloride (56-23-5)	ND
Lead, Total (7439-92-1)	0.267	Endosulfan Sulfate (1031-07-8)	ND	Chlorobenzene (108-90-7)	ND
Mercury, Total (7439-97-6)	ND	Endrin (72-20-8)	ND	Chlorodibromomethane (124-48-1)	ND
Nickel, Total (7440-02-0)	0.027	Endrin Aldehyde (7421-93-4)	ND	Chloroethane (75-00-3)	ND
Selenium, Total (7782-49-2)	0.019	Heptachlor (76-44-8)	ND	2-Chloroethylvinyl Ether (110-75-8)	ND
Silver, Total (7440-22-4)	ND	Heptachlor Epoxide (1024-57-3)	ND	Chloroform (67-66-3)	ND
Thallium, Total (7440-28-0)	ND	PCB-1242 (53469-21-9)	ND	Dichlorobromomethane (75-27-4)	ND
Zinc, Total (7440-66-6)	0.442	PCB-1254 (11097-69-1)	ND	Dichlorodifluoromethane (75-71-8)	ND
Cyanide, Total (57-12-5)	ND	PCB-1221 (11104-28-2)	ND	1,1-Dichloroethane (75-34-3)	ND
Phenols, Total		PCB-1232 (11141-16-5)	ND	1,2-Dichloroethane (107-06-2)	ND
		PCB-1248 (12672-29-6)	ND	1,1-Dichloroethylene (75-35-4)	ND
		PCB-1260 (11096-82-5)	ND	1,2-Dichloropropane (78-87-5)	ND
		PCB-1016 (12674-11-2)	ND	1,3-Dichloropropylene (542-75-6)	ND
		Toxaphene (8001-35-2)	ND	Ethylbenzene (100-41-4)	ND
				Methyl Bromide (74-83-9)	ND
				Methyl Chloride (74-87-3)	ND
				Methylene Chloride (75-09-2)	ND
				1,1,2,2-Tetrachloroethane (79-34-5)	ND
				Tetrachloroethylene (127-18-4)	ND

PESTICIDES ug/l		DIOXIN ug/l	
Aldrin (309-00-2)	ND	2,3,7,8 Tetrachlorodibenzo-P-Dioxin (1764-01-6)	ND
$\alpha$ -BHC (319-84-6)	0.035		
$\beta$ -BHC (319-85-7)	ND		
$\gamma$ -BHC (58-89-9)	ND		
$\delta$ -BHC 319-86-8)	ND		
Chlordane (57-74-9)	ND		

ND - Not detected  
BLANK - Not analyzed



Table 187.--Priority pollutants data 1405-1455, May 28, 1981, for station  
06711586 Asbury Park Storm Drain at Asbury Avenue, at Denver  
[Composite sample]--Continued

VOLATILE COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l	
Toluene (108-88-3)	ND	2-Chloronaphthalene (91-58-7)	ND	Nitrobenzene (98-95-3)	ND
1,2-Trans-Dichloroethylene (156-60-5)	ND	4-Chlorophenyl Phenyl Ether (7005-72-3)	ND	N-Nitrosodimethylamine (62-75-9)	ND
1,1,1-Trichloroethane (71-55-6)	ND	Chrysene (218-01-9)	ND	N-Nitrosodi-N-Propylamine (621-64-7)	ND
1,1,2-Trichloroethane (79-00-5)	ND	Dibenzo (a,h) Anthracene (53-70-3)	ND	N-Nitrosodiphenylamine (86-30-6)	ND
Trichloroethylene (79-01-6)	ND	1,2-Dichlorobenzene (95-50-1)	ND	Phenanthrene (85-01-8)	ND
Trichlorofluoromethane (75-69-4)	ND	1,3-Dichlorobenzene (541-73-1)	ND	Pyrene (129-00-0)	ND
Vinyl Chloride (75-01-4)	ND	1,4-Dichlorobenzene (106-46-7)	ND	1,2,4-Trichlorobenzene (120-82-1)	ND
		3,3'-Dichlorobenzidine (91-94-1)	ND		
		Diethyl Phthalate (84-66-2)	ND	ACID COMPOUNDS ug/l	
BASE/NEUTRAL COMPOUNDS ug/l		Dimethyl Phthalate (131-11-3)	ND	2-Chloropheno (95-57-8)	ND
Acenaphthene (83-32-9)	ND	Di-N-Butyl Phthalate (84-74-2)	ND	2,4-Dichlorophenol (120-83-2)	ND
Acenaphthylene (208-96-8)	ND	2,4-Dinitrotoluene (121-14-2)	ND	2,4-Dimethylphenol (105-67-9)	ND
Anthracene (120-12-7)	ND	2,6-Dinitrotoluene (606-20-2)	ND	4,6-Dinitro-O-Cresol (534-52-1)	ND
Benzidine (92-87-5)	ND	Di-N-Octyl Phthalate (117-84-0)	ND	2,4-Dinitrophenol (51-28-5)	ND
Benzo (a) Anthracene (56-55-3)	ND	1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	ND	2-Nitrophenol (88-75-5)	ND
Benzo (a) Pyrene (50-32-8)	ND	Fluoranthene (206-44-0)	ND	4-Nitrophenol (100-02-7)	ND
3,4-Benzofluoranthene (205-99-2)	ND	Fluorene (86-73-7)	ND	P-Chloro-M-Cresol (59-50-7)	ND
Benzo (ghi) Perylene (191-24-2)	ND	Hexachlorobenzene (118-71-1)	ND	Pentachlorophenol (87-86-5)	ND
Benzo (k) Fluoranthene (207-08-9)	ND	Hexachlorobutadiene (87-68-3)	ND	Phenol (108-95-2)	ND
Bis (2-Chloroethoxy) Methane (111-91-1)	ND	Hexachlorocyclopentadiene (77-47-4)	ND	2,4,6-Trichlorophenol (88-06-2)	ND
Bis (2-Chloroethyl) Ether (111-44-4)	ND	Hexachloroethane (67-72-1)	ND	ND - Not detected BLANK - Not analyzed	
Bis (2-Chloroisopropyl) Ether (39638-32-9)	ND	Indeno (1,2,3-cd) Pyrene (193-39-5)	ND		
Bis (2-Ethylhexyl) Phthalate (117-81-7)	22	Isophorone (78-59-1)	ND		
4-Bromophenyl Phenyl Ether (101-55-3)	ND	Naphthalene (91-20-3)	ND		
Butyl Benzyl Phthalate (85-68-7)	ND				

ND - Not detected  
BLANK - Not analyzed

Table 188.--Priority pollutants data 1346, May 28, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood  
[Discrete sample]

METALS, CYANIDE AND TOTAL PHENOLS mg/l		PESTICIDES ug/l		VOLATILE COMPOUNDS ug/l	
Antimony, Total (7440-36-0)	ND	4,4'-DDT (50-29-3)	ND	Acrolein (107-02-8)	ND
Arsenic, Total (7440-38-2)	ND	4,4'-DDE (72-55-9)	ND	Acrylonitrile (107-13-1)	ND
Beryllium, Total (7440-41-7)	ND	4,4'-DDD (72-54-8)	ND	Benzene (71-43-2)	ND
Cadmium, Total (7440-43-9)	ND	Dieldrin (60-57-1)	ND	Bis (Chloromethyl) Ether (542-88-1)	ND
Chromium, Total (7440-47-3)	ND	$\alpha$ -Endosulfan (115-29-7)	ND	Bromoform (75-25-2)	ND
Copper, Total (7550-50-8)	0.11	$\beta$ -Endosulfan (115-29-7)	ND	Carbon Tetrachloride (56-23-5)	ND
Lead, Total (7439-92-1)	0.067	Endosulfan Sulfate (1031-07-8)	ND	Chlorobenzene (108-90-7)	ND
Mercury, Total (7439-97-6)	ND	Endrin (72-20-8)	ND	Chlorodibromomethane (124-48-1)	ND
Nickel, Total (7440-02-0)	0.018	Endrin Aldehyde (7421-93-4)	ND	Chloroethane (75-00-3)	ND
Selenium, Total (7782-49-2)	0.002	Heptachlor (76-44-8)	ND	2-Chloroethylvinyl Ether (110-75-8)	ND
Silver, Total (7440-22-4)	ND	Heptachlor Epoxide (1024-57-3)	ND	Chloroform (67-66-3)	ND
Thallium, Total (7440-28-0)	ND	PCB-1242 (53469-21-9)	ND	Dichlorobromomethane (75-27-4)	ND
Zinc, Total (7440-66-6)	.293	PCB-1254 (11097-69-1)	ND	Dichlorodifluoromethane (75-71-8)	ND
Cyanide, Total (57-12-5)	ND	PCB-1221 (11104-28-2)	ND	1,1-Dichloroethane (75-34-3)	ND
Phenols, Total		PCB-1232 (11141-16-5)	ND	1,2-Dichloroethane (107-06-2)	ND
		PCB-1248 (12672-29-6)	ND	1,1-Dichloroethylene (75-35-4)	ND
		PCB-1260 (11096-82-5)	ND	1,2-Dichloropropane (78-87-5)	ND
		PCB-1016 (12674-11-2)	ND	1,3-Dichloropropylene (542-75-6)	ND
		Toxaphene (8001-35-2)	ND	Ethylbenzene (100-41-4)	ND
				Methyl Bromide (74-83-9)	ND
				Methyl Chloride (74-87-3)	ND
				Methylene Chloride (75-09-2)	ND
				1,1,2,2-Tetrachloroethane (79-34-5)	ND
				Tetrachloroethylene (127-18-4)	ND

PESTICIDES ug/l	
Aldrin (309-00-2)	ND
$\alpha$ -BHC (319-84-6)	ND
$\beta$ -BHC (319-85-7)	ND
$\gamma$ -BHC (58-89-9)	ND
$\delta$ -BHC 319-86-8)	ND
Chlordane (57-74-9)	ND

DIOXIN ug/l	
2,3,7,8 Tetrachlorodibenzo-P-Dioxin (1764-01-6)	ND

ND - Not detected  
BLANK - Not analyzed

Table 188.--Priority pollutants data 1346, May 28, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood  
[Discrete sample]--Continued

VOLATILE COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l	
Toluene (108-88-3)	ND	2-Chloronaphthalene (91-58-7)	ND	Nitrobenzene (98-95-3)	ND
1,2 Trans-Dichloroethylene (156-60-5)	ND	4-Chlorophenyl Phenyl Ether (7005-72-3)	ND	N-Nitrosodimethylamine (62-75-9)	ND
1,1,1-Trichloroethane (71-55-6)	ND	Chrysene (218-01-9)	ND	N-Nitrosodi-N-Propylamine (621-64-7)	ND
1,1,2-Trichloroethane (79-00-5)	ND	Dibenzo (a,h) Anthracene (53-70-3)	ND	N-Nitrosodiphenylamine (86-30-6)	ND
Trichloroethylene (79-01-6)	ND	1,2-Dichlorobenzene (95-50-1)	ND	Phenanthrene (85-01-8)	ND
Trichlorofluoromethane (75-69-4)	ND	1,3-Dichlorobenzene (541-73-1)	ND	Pyrene (129-00-0)	ND
Vinyl Chloride (75-01-4)	ND	1,4-Dichlorobenzene (106-46-7)	ND	1,2,4-Trichlorobenzene (120-82-1)	ND
		3,3'-Dichlorobenzidine (91-94-1)	ND		
		Dioethyl Phthalate (84-66-2)	ND		
		Dimethyl Phthalate (131-11-3)	ND		
		Di-N-Butyl Phthalate (84-74-2)	ND		
		2,4-Dinitrotoluene (121-14-2)	ND		
		2,6-Dinitrotoluene (606-20-2)	ND		
		Di-N-Octyl Phthalate (117-84-0)	ND		
		1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	ND		
		Fluoranthene (206-44-0)	ND		
		Fluorene (86-73-7)	ND		
		Hexachlorobenzene (118-71-1)	ND		
		Hexachlorobutadiene (87-68-3)	ND		
		Hexachlorocyclopentadiene (77-47-4)	ND		
		Hexachloroethane (67-72-1)	ND		
		Indeno (1,2,3-cd) Pyrene (193-39-5)	ND		
		Isophorone (78-59-1)	ND		
		Naphthalene (91-20-3)	ND		
BASE/NEUTRAL COMPOUNDS ug/l		ACID COMPOUNDS ug/l			
Acenaphthene (83-32-9)	ND	2-Chloropheno (95-57-8)	ND		
Acenaphthylene (208-96-8)	ND	2,4-Dichlorophenol (120-83-2)	ND		
Anthracene (120-12-7)	ND	2,4-Dimethylphenol (105-67-9)	ND		
Benzidine (92-87-5)	ND	4,6-Dinitro-O-Cresol (534-52-1)	ND		
Benzo (a) Anthracene (56-55-3)	ND	2,4-Dinitrophenol (51-28-5)	ND		
Benzo (a) Pyrene (50-32-8)	ND	2-Nitrophenol (88-75-5)	ND		
3,4-Benzofluoranthene (205-99-2)	ND	4-Nitrophenol (100-02-7)	ND		
Benzo (ghi) Perylene (191-24-2)	ND	P-Chloro-M-Cresol (59-50-7)	ND		
Benzo (k) Fluoranthene (207-08-9)	ND	Pentachlorophenol (87-86-5)	ND		
Bis (2-Chloroethoxy) Methane (111-91-1)	ND	Phenol (108-95-2)	ND		
Bis (2-Chloroethyl) Ether (111-44-4)	ND	2,4,6-Trichlorophenol (88-06-2)	ND		
Bis (2-Chloroisopropyl) Ether (39638-32-9)	ND				
Bis (2-Ethylhexyl) Phthalate (117-81-7)	ND				
4-Bromophenyl Phenyl Ether (101-55-3)	ND				
Butyl Benzyl Phthalate (85-68-7)	ND				

ND - Not detected  
BLANK - Not analyzed

Table 189.--Priority pollutants data 1346-1526, May 28, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood  
[Composite sample]

METALS, CYANIDE AND TOTAL PHENOLS mg/l		PESTICIDES ug/l		VOLATILE COMPOUNDS ug/l	
Antimony, Total (7440-36-0)	ND	4,4'-DDT (50-29-3)	ND	Acrolein (107-02-8)	ND
Arsenic, Total (7440-38-2)	ND	4,4'-DDE (72-55-9)	ND	Acrylonitrile (107-13-1)	ND
Beryllium, Total (7440-41-7)	ND	4,4'-DDD (72-54-8)	ND	Benzene (71-43-2)	ND
Cadmium, Total (7440-43-9)	ND	Dieldrin (60-57-1)	ND	Bis (Chloromethyl) Ether (542-88-1)	ND
Chromium, Total (7440-47-3)	ND	$\alpha$ -Endosulfan (115-29-7)	ND	Bromoform (75-25-2)	ND
Copper, Total (7550-50-8)	0.047	$\beta$ -Endosulfan (115-29-7)	ND	Carbon Tetrachloride (56-23-5)	ND
Lead, Total (7439-92-1)	0.167	Endosulfan Sulfate (1031-07-8)	ND	Chlorobenzene (108-90-7)	ND
Mercury, Total (7439-97-6)	ND	Endrin (72-20-8)	ND	Chlorodibromomethane (124-48-1)	ND
Nickel, Total (7440-02-0)	ND	Endrin Aldehyde (7421-93-4)	ND	Chloroethane (75-00-3)	ND
Selenium, Total (7782-49-2)	0.014	Heptachlor (76-44-8)	ND	2-Chloroethylvinyl Ether (110-75-8)	ND
Silver, Total (7440-22-4)	ND	Heptachlor Epoxide (1024-57-3)	ND	Chloroform (67-66-3)	2
Thallium, Total (7440-28-0)	ND	PCB-1242 (53469-21-9)	ND	Dichlorobromomethane (75-27-4)	ND
Zinc, Total (7440-66-6)	0.301	PCB-1254 (11097-69-1)	ND	Dichlorodifluoromethane (75-71-8)	ND
Cyanide, Total (57-12-5)	ND	PCB-1221 (11104-28-2)	ND	1,1-Dichloroethane (75-34-3)	ND
Phenols, Total		PCB-1232 (11141-16-5)	ND	1,2-Dichloroethane (107-06-2)	ND
		PCB-1248 (12672-29-6)	ND	1,1-Dichloroethylene (75-35-4)	ND
		PCB-1260 (11096-82-5)	ND	1,2-Dichloropropane (78-87-5)	ND
		PCB-1016 (12674-11-2)	ND	1,3-Dichloropropylene (542-75-6)	ND
		Toxaphene (8001-35-2)	ND	Ethylbenzene (100-41-4)	ND
				Methyl Bromide (74-83-9)	ND
				Methyl Chloride (74-87-3)	ND
				Methylene Chloride (75-09-2)	ND
				1,1,2,2-Tetrachloroethane (79-34-5)	ND
				Tetrachloroethylene (127-18-4)	ND

PESTICIDES ug/l	
Aldrin (309-00-2)	ND
$\alpha$ -BHC (319-84-6)	0.022
$\beta$ -BHC (319-85-7)	ND
$\gamma$ -BHC (58-89-9)	0.052
$\delta$ -BHC 319-86-8)	ND
Chlordane (57-74-9)	ND

DIOXIN ug/l	
2,3,7,8 Tetrachlorodibenzo-P-Dioxin (1764-01-6)	ND

ND - Not detected  
BLANK - Not analyzed

Table 189.--Priority pollutants data 1346-1526, May 28, 1981, for station  
06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood  
[Composite sample]--Continued

VOLATILE COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l	
Toluene (108-88-3)	ND	2-Chloronaphthalene (91-58-7)	ND	Nitrobenzene (98-95-3)	ND
1,2 Trans-Dichloroethylene (156-60-5)	ND	4-Chlorophenyl Phenyl Ether (7005-72-3)	ND	N-Nitrosodimethylamine (62-75-9)	ND
1,1,1-Trichloroethane (71-55-6)	ND	Chrysene (218-01-9)	ND	N-Nitrosodi-N-Propylamine (621-64-7)	ND
1,1,2-Trichloroethane (79-00-5)	ND	Dibenzo (a,h) Anthracene (53-70-3)	ND	N-Nitrosodiphenylamine (86-30-6)	ND
Trichloroethylene (79-01-6)	ND	1,2-Dichlorobenzene (95-50-1)	ND	Phenanthrene (85-01-8)	ND
Trichlorofluoromethane (75-69-4)	ND	1,3-Dichlorobenzene (541-73-1)	ND	Pyrene (129-00-0)	ND
Vinyl Chloride (75-01-4)	ND	1,4-Dichlorobenzene (106-46-7)	ND	1,2,4-Trichlorobenzene (120-82-1)	ND
		3,3'-Dichlorobenzidine (91-94-1)	ND		
		Diethyl Phthalate (84-66-2)	ND		
BASE/NEUTRAL COMPOUNDS ug/l		ACID COMPOUNDS ug/l			
Acenaphthene (83-32-9)	ND	Dimethyl Phthalate (131-11-3)	ND	2-Chloropheno (95-57-8)	ND
Acenaphthylene (208-96-8)	ND	Di-N-Butyl Phthalate (84-74-2)	ND	2,4-Dichlorophenol (120-83-2)	ND
Anthracene (120-12-7)	ND	2,4-Dinitrotoluene (121-14-2)	ND	2,4-Dimethylphenol (105-67-9)	ND
Benzidine (92-87-5)	ND	2,6-Dinitrotoluene (606-20-2)	ND	4,6-Dinitro-O-Cresol (534-52-1)	ND
Benzo (a) Anthracene (56-55-3)	ND	Di-N-Octyl Phthalate (117-84-0)	ND	2,4-Dinitrophenol (51-28-5)	ND
Benzo (a) Pyrene (50-32-8)	ND	1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	ND	2-Nitrophenol (88-75-5)	ND
3,4-Benzofluoranthene (205-99-2)	ND	Fluoranthene (206-44-0)	ND	4-Nitrophenol (100-02-7)	ND
Benzo (ghi) Perylene (191-24-2)	ND	Fluorene (86-73-7)	ND	P-Chloro-M-Cresol (59-50-7)	ND
Benzo (k) Fluoranthene (207-08-9)	ND	Hexachlorobenzene (118-71-1)	ND	Pentachlorophenol (87-86-5)	ND
Bis (2-Chloroethoxy) Methane (111-91-1)	ND	Hexachlorobutadiene (87-68-3)	ND	Phenol (108-95-2)	ND
Bis (2-Chloroethyl) Ether (111-44-4)	ND	Hexachlorocyclopentadiene (77-47-4)	ND	2,4,6-Trichlorophenol (88-06-2)	ND
Bis (2-Chloroisopropyl) Ether (39638-32-9)	ND	Hexachloroethane (67-72-1)	ND		
Bis (2-Ethylhexyl) Phthalate (117-81-7)	ND	Indeno (1,2,3-cd) Pyrene (193-39-5)	ND		
4-Bromophenyl Phenyl Ether (101-55-3)	ND	Isophorone (78-59-1)	ND		
Butyl Benzyl Phthalate (85-68-7)	ND	Naphthalene (91-20-3)	ND		

ND - Not detected  
BLANK - Not analyzed

Table 190.--Priority pollutants data 1120, August 13, 1981, for station 06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood [Discrete sample]

METALS, CYANIDE AND TOTAL PHENOLS mg/l	
Antimony, Total (7440-36-0)	ND
Arsenic, Total (7440-38-2)	0.003
Beryllium, Total (7440-41-7)	ND
Cadmium, Total (7440-43-9)	ND
Chromium, Total (7440-47-3)	ND
Copper, Total (7550-50-8)	0.041
Lead, Total (7439-92-1)	0.16
Mercury, Total (7439-97-6)	ND
Nickel, Total (7440-02-0)	ND
Selenium, Total (7782-49-2)	ND
Silver, Total (7440-22-4)	ND
Thallium, Total (7440-28-0)	ND
Zinc, Total (7440-66-6)	0.23
Cyanide, Total (57-12-5)	0.028
Phenols, Total	

PESTICIDES	
	ug/l
Aldrin (309-00-2)	ND
$\alpha$ -BHC (319-84-6)	0.048
$\beta$ -BHC (319-85-7)	ND
$\gamma$ -BHC (58-89-9)	0.015
$\delta$ -BHC 319-86-8)	ND
Chlordane (57-74-9)	ND

PESTICIDES		ug/l
4,4'-DDT (50-29-3)		ND
4,4'-DDE (72-55-9)		ND
4,4'-DDD (72-54-8)		ND
Dieldrin (60-57-1)		ND
$\alpha$ -Endosulfan (115-29-7)		ND
$\beta$ -Endosulfan (115-29-7)		ND
Endosulfan Sulfate (1031-07-8)		ND
Endrin (72-20-8)		ND
Endrin Aldehyde (7421-93-4)		ND
Heptachlor (76-44-8)		ND
Heptachlor Epoxide (1024-57-3)		ND
PCB-1242 (53469-21-9)		ND
PCB-1254 (11097-69-1)		ND
PCB-1221 (11104-28-2)		ND
PCB-1232 (11141-16-5)		ND
PCB-1248 (12672-29-6)		ND
PCB-1260 (11096-82-5)		ND
PCB-1016 (12674-11-2)		ND
Toxaphene (8001-35-2)		ND

DIOXIN	ug/l
2,3,7,8 Tetrachlorodibenzo-P-Dioxin (1764-01-6)	ND

VOLATILE COMPOUNDS	
	ug/l
Acrolein (107-02-8)	ND
Acrylonitrile (107-13-1)	ND
Benzene (71-43-2)	ND
Bis ( <i>Chloromethyl</i> ) Ether (542-88-1)	ND
Bromoform (75-25-2)	ND
Carbon Tetrachloride (56-23-5)	ND
Chlorobenzene (108-90-7)	ND
Chlorodibromomethane (124-48-1)	ND
Chloroethane (75-00-3)	ND
2-Chloroethylvinyl Ether (110-75-8)	ND
Chloroform (67-66-3)	ND
Dichlorobromomethane (75-27-4)	ND
Dichlorodifluoromethane (75-71-8)	ND
1,1-Dichloroethane (75-34-3)	ND
1,2-Dichloroethane (107-06-2)	ND
1,1-Dichloroethylene (75-35-4)	ND
1,2-Dichloropropane (78-87-5)	ND
1,3-Dichloropropylene (542-75-6)	ND
Ethylbenzene (100-41-4)	ND
Methyl Bromide (74-83-9)	ND
Methyl Chloride (74-87-3)	ND
Methylene Chloride (75-09-2)	ND
1,1,2,2-Tetrachloroethane (79-34-5)	ND
Tetrachloroethylene (127-18-4)	ND

ND - Not detected  
BLANK - Not analyzed

Table 190.--Priority pollutants data 1120, August 13, 1981, for station 06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood [Discrete sample]--Continued

VOLATILE COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l	
Toluene (108-88-3)	ND	2-Chloronaphthalene (91-58-7)	ND	Nitrobenzene (98-95-3)	ND
1,2 Trans-Dichloroethylene (156-60-5)	ND	4-Chlorophenyl Phenyl Ether (7005-72-3)	ND	N-Nitrosodimethylamine (62-75-9)	ND
1,1,1-Trichloroethane (71-55-6)	ND	Chrysene (218-01-9)	ND	N-Nitrosodi-N-Propylamine (621-64-7)	ND
1,1,2-Trichloroethane (79-00-5)	ND	Dibenzo (a,h) Anthracene (53-70-3)	ND	N-Nitrosodiphenylamine (86-30-6)	ND
Trichloroethylene (79-01-6)	ND	1,2-Dichlorobenzene (95-50-1)	ND	Phenanthrene (85-01-8)	ND
Trichlorofluoromethane (75-69-4)	ND	1,3-Dichlorobenzene (541-73-1)	ND	Pyrene (129-00-0)	ND
Vinyl Chloride (75-01-4)	ND	1,4-Dichlorobenzene (106-46-7)	ND	1,2,4-Trichlorobenzene (120-82-1)	ND
		3,3'-Dichlorobenzidine (91-94-1)	ND		
		Diethyl Phthalate (84-66-2)	ND		
BASE/NEUTRAL COMPOUNDS ug/l		Dimethyl Phthalate (131-11-3)	ND	ACID COMPOUNDS ug/l	
Acenaphthene (83-32-9)	ND	Di-N-Butyl Phthalate (84-74-2)	ND	2-Chloropheno (95-57-8)	ND
Acenaphthylene (208-96-8)	ND	2,4-Dinitrotoluene (121-14-2)	ND	2,4-Dichlorophenol (120-83-2)	ND
Anthracene (120-12-7)	ND	2,6-Dinitrotoluene (606-20-2)	ND	2,4-Dimethylphenol (105-67-9)	ND
Benzidine (92-87-5)	ND	Di-N-Octyl Phthalate (117-84-0)	ND	4,6-Dinitro-O-Cresol (534-52-1)	ND
Benzo (a) Anthracene (56-55-3)	ND	1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	ND	2,4-Dinitrophenol (51-28-5)	ND
Benzo (a) Pyrene (50-32-8)	ND	Fluoranthene (206-44-0)	ND	2-Nitrophenol (88-75-5)	ND
3,4-Benzofluoranthene (205-99-2)	ND	Fluorene (86-73-7)	ND	4-Nitrophenol (100-02-7)	ND
Benzo (ghi) Perylene (191-24-2)	ND	Hexachlorobenzene (118-71-1)	ND	P-Chloro-M-Cresol (59-50-7)	ND
Benzo (k) Fluoranthene (207-08-9)	ND	Hexachlorobutadiene (87-68-3)	ND	Pentachlorophenol (87-86-5)	ND
Bis (2-Chloroethoxy) Methane (111-91-1)	ND	Hexachlorocyclopentadiene (77-47-4)	ND	Phenol (108-95-2)	ND
Bis (2-Chloroethyl) Ether (111-44-4)	ND	Hexachloroethane (67-72-1)	ND	2,4,6-Trichlorophenol (88-06-2)	ND
Bis (2-Chloroisopropyl) Ether (39638-32-9)	ND	Indeno (1,2,3-cd) Pyrene (193-39-5)	ND		
Bis (2-Ethylhexyl) Phthalate (117-81-7)	ND	Isophorone (78-59-1)	ND		
4-Bromophenyl Phenyl Ether (101-55-3)	ND	Naphthalene (91-20-3)	ND		
Butyl Benzyl Phthalate (85-68-7)	ND				

ND - Not detected  
BLANK - Not analyzed

Table 191.--Priority pollutants data 1120-1240, August 13, 1981, for station 06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood [Composite sample]

METALS, CYANIDE AND TOTAL PHENOLS mg/l		PESTICIDES ug/l		VOLATILE COMPOUNDS ug/l	
Antimony, Total (7440-36-0)	ND	4,4'-DDT (50-29-3)	ND	Acrolein (107-02-8)	ND
Arsenic, Total (7440-38-2)	0.004	4,4'-DDE (72-55-9)	ND	Acrylonitrile (107-13-1)	ND
Beryllium, Total (7440-41-7)	ND	4,4'-DDD (72-54-8)	ND	Benzene (71-43-2)	ND
Cadmium, Total (7440-43-9)	ND	Dieldrin (60-57-1)	ND	Bis (Chloromethyl) Ether (542-88-1)	ND
Chromium, Total (7440-47-3)	ND	$\alpha$ -Endosulfan (115-29-7)	ND	Bromoform (75-25-2)	ND
Copper, Total (7550-50-8)	0.054	$\beta$ -Endosulfan (115-29-7)	ND	Carbon Tetrachloride (56-23-5)	ND
Lead, Total (7439-92-1)	0.27	Endosulfan Sulfate (1031-07-8)	ND	Chlorobenzene (108-90-7)	ND
Mercury, Total (7439-97-6)	ND	Endrin (72-20-8)	ND	Chlorodibromomethane (124-48-1)	ND
Nickel, Total (7440-02-0)	ND	Endrin Aldehyde (7421-93-4)	ND	Chloroethane (75-00-3)	ND
Selenium, Total (7782-49-2)	ND	Heptachlor (76-44-8)	ND	2-Chloroethylvinyl Ether (110-75-8)	ND
Silver, Total (7440-22-4)	ND	Heptachlor Epoxide (1024-57-3)	ND	Chloroform (67-66-3)	ND
Thallium, Total (7440-28-0)	ND	PCB-1242 (53469-21-9)	ND	Dichlorobromomethane (75-27-4)	ND
Zinc, Total (7440-66-6)	0.34	PCB-1254 (11097-69-1)	ND	Dichlorodifluoromethane (75-71-8)	ND
Cyanide, Total (57-12-5)	0.013	PCB-1221 (11104-28-2)	ND	1,1-Dichloroethane (75-34-3)	ND
Phenols, Total		PCB-1232 (11141-16-5)	ND	1,2-Dichloroethane (107-06-2)	ND
		PCB-1248 (12672-29-6)	ND	1,1-Dichloroethylene (75-35-4)	ND
		PCB-1260 (11096-82-5)	ND	1,2-Dichloropropane (78-87-5)	ND
		PCB-1016 (12674-11-2)	ND	1,3-Dichloropropylene (542-75-6)	ND
		Toxaphene (8001-35-2)	ND	Ethylbenzene (100-41-4)	ND
				Methyl Bromide (74-83-9)	ND
				Methyl Chloride (74-87-3)	ND
				Methylene Chloride (75-09-2)	ND
				1,1,2,2-Tetrachloroethane (79-34-5)	ND
				Tetrachloroethylene (127-18-4)	ND

PESTICIDES ug/l	
Aldrin (309-00-2)	ND
$\alpha$ -BHC (319-84-6)	0.048
$\beta$ -BHC (319-85-7)	ND
$\gamma$ -BHC (58-89-9)	ND
$\delta$ -BHC 319-86-8)	ND
Chlordane (57-74-9)	ND

DIOXIN ug/l	
2,3,7,8 Tetrachlorodibenzo-P-Dioxin (1764-01-6)	ND

ND - Not detected  
BLANK - Not analyzed



Table 191.--Priority pollutants data 1120-1240, August 13, 1981, for station 06711635 North Avenue Storm Drain at Denver Federal Center, at Lakewood [Composite sample]--Continued

VOLATILE COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l	
Toluene (108-88-3)	ND	2-Chloronaphthalene (91-58-7)	ND	Nitrobenzene (98-95-3)	ND
1,2 Trans-Dichloroethylene (156-60-5)	ND	4-Chlorophenyl Phenyl Ether (7005-72-3)	ND	N-Nitrosodimethylamine (62-75-9)	ND
1,1,1-Trichloroethane (71-55-6)	ND	Chrysene (218-01-9)	ND	N-Nitrosodi-N-Propylamine (621-64-7)	ND
1,1,2-Trichloroethane (79-00-5)	ND	Dibenzo (a,h) Anthracene (53-70-3)	ND	N-Nitrosodiphenylamine (86-30-6)	ND
Trichloroethylene (79-01-6)	ND	1,2-Dichlorobenzene (95-50-1)	ND	Phenanthrene (85-01-8)	ND
Trichlorofluoromethane (75-69-4)	ND	1,3-Dichlorobenzene (541-73-1)	ND	Pyrene (129-00-0)	ND
Vinyl Chloride (75-01-4)	ND	1,4-Dichlorobenzene (106-46-7)	ND	1,2,4-Trichlorobenzene (120-82-1)	ND
		3,3'-Dichlorobenzidine (91-94-1)	ND		
		Diethyl Phthalate (84-66-2)	ND		
BASE/NEUTRAL COMPOUNDS ug/l				ACID COMPOUNDS ug/l	
Acenaphthene (83-32-9)	ND	Dimethyl Phthalate (131-11-3)	ND	2-Chloropheno (95-57-8)	ND
Acenaphthylene (208-96-8)	ND	Di-N-Butyl Phthalate (84-74-2)	ND	2,4-Dichlorophenol (120-83-2)	ND
Anthracene (120-12-7)	ND	2,4-Dinitrotoluene (121-14-2)	ND	2,4-Dimethylphenol (105-67-9)	ND
Benzidine (92-87-5)	ND	2,6-Dinitrotoluene (606-20-2)	ND	4,6-Dinitro-O-Cresol (534-52-1)	ND
Benzo (a) Anthracene (56-55-3)	ND	Di-N-Octyl Phthalate (117-84-0)	ND	2,4-Dinitrophenol (51-28-5)	ND
Benzo (a) Pyrene (50-32-8)	ND	1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	ND	2-Nitrophenol (88-75-5)	ND
3,4-Benzofluoranthene (205-99-2)	ND	Fluoranthene (206-44-0)	ND	4-Nitrophenol (100-02-7)	ND
Benzo (ghi) Perylene (191-24-2)	ND	Fluorene (86-73-7)	ND	P-Chloro-M-Cresol (59-50-7)	ND
Benzo (k) Fluoranthene (207-08-9)	ND	Hexachlorobenzene (118-71-1)	ND	Pentachlorophenol (87-86-5)	ND
Bis (2-Chloroethoxy) Methane (111-91-1)	ND	Hexachlorobutadiene (87-68-3)	ND	Phenol (108-95-2)	ND
Bis (2-Chloroethyl) Ether (111-44-4)	ND	Hexachlorocyclopentadiene (77-47-4)	ND	2,4,6-Trichlorophenol (88-06-2)	ND
Bis (2-Chloroisopropyl) Ether (39638-32-9)	ND	Hexachloroethane (67-72-1)	ND		
Bis (2-Ethylhexyl) Phthalate (117-81-7)	12	Indeno (1,2,3-cd) Pyrene (193-39-5)	ND		
4-Bromophenyl Phenyl Ether (101-55-3)	ND	Isophorone (78-59-1)	ND		
Butyl Benzyl Phthalate (85-68-7)	ND	Naphthalene (91-20-3)	ND		

ND - Not detected  
BLANK - Not analyzed

Table 192.--Priority pollutants data 1300, May 28, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood  
[Discrete sample]

VOLATILE COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l	
Toluene (108-88-3)	ND	2-Chloronaphthalene (91-58-7)	ND	Nitrobenzene (98-95-3)	ND
1,2 Trans-Dichloroethylene (156-60-5)	ND	4-Chlorophenyl Phenyl Ether (7005-72-3)	ND	N-Nitrosodimethylamine (62-75-9)	ND
1,1,1-Trichloroethane (71-55-6)	ND	Chrysene (218-01-9)	ND	N-Nitrosodi-N-Propylamine (621-64-7)	ND
1,1,2-Trichloroethane (79-00-5)	ND	Dibenzo (a,h) Anthracene (53-70-3)	ND	N-Nitrosodiphenylamine (86-30-6)	ND
Trichloroethylene (79-01-6)	ND	1,2-Dichlorobenzene (95-50-1)	ND	Phenanthrene (85-01-8)	ND
Trichlorofluoromethane (75-69-4)	ND	1,3-Dichlorobenzene (541-73-1)	ND	Pyrene (129-00-0)	ND
Vinyl Chloride (75-01-4)	ND	1,4-Dichlorobenzene (106-46-7)	ND	1,2,4-Trichlorobenzene (120-82-1)	ND
		3,3'-Dichlorobenzidine (91-94-1)	ND		
		Diethyl Phthalate (84-66-2)	ND		
		Dimethyl Phthalate (131-11-3)	ND		
		Di-N-Butyl Phthalate (84-74-2)	ND		
		2,4-Dinitrotoluene (121-14-2)	ND		
		2,6-Dinitrotoluene (606-20-2)	ND		
		Di-N-Octyl Phthalate (117-84-0)	ND		
		1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	ND		
		Fluoranthene (206-44-0)	ND		
		Fluorene (86-73-7)	ND		
		Hexachlorobenzene (118-71-1)	ND		
		Hexachlorobutadiene (87-68-3)	ND		
		Hexachlorocyclopentadiene (77-47-4)	ND		
		Hexachloroethane (67-72-1)	ND		
		Indeno (1,2,3-cd) Pyrene (193-39-5)	ND		
		Isophorone (78-59-1)	ND		
		Naphthalene (91-20-3)	ND		
BASE/NEUTRAL COMPOUNDS ug/l		ACID COMPOUNDS ug/l			
Acenaphthene (83-32-9)	ND	2-Chloropheno (95-57-8)	ND		
Acenaphthylene (208-96-8)	ND	2,4-Dichlorophenol (120-83-2)	ND		
Anthracene (120-12-7)	ND	2,4-Dimethylphenol (105-67-9)	ND		
Benzidine (92-87-5)	ND	4,6-Dinitro-O-Cresol (534-52-1)	ND		
Benzo (a) Anthracene (56-55-3)	ND	2,4-Dinitrophenol (51-28-5)	ND		
Benzo (a) Pyrene (50-32-8)	ND	2-Nitrophenol (88-75-5)	ND		
3,4-Benzofluoranthene (205-99-2)	ND	4-Nitrophenol (100-02-7)	ND		
Benzo (ghi) Perylene (191-24-2)	ND	P-Chloro-M-Cresol (59-50-7)	ND		
Benzo (k) Fluoranthene (207-08-9)	ND	Pentachlorophenol (87-86-5)	ND		
Bis (2-Chloroethoxy) Methane (111-91-1)	ND	Phenol (108-95-2)	ND		
Bis (2-Chloroethyl) Ether (111-44-4)	ND	2,4,6-Trichlorophenol (88-06-2)	ND		
Bis (2-Chloroisopropyl) Ether (39638-32-9)	ND				
Bis (2-Ethylhexyl) Phthalate (117-81-7)	ND				
4-Bromophenyl Phenyl Ether (101-55-3)	ND				
Butyl Benzyl Phthalate (85-68-7)	ND				

ND - Not detected  
BLANK - Not analyzed

Table 192.--Priority pollutants data 1300, May 28, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood  
[Discrete sample]--Continued

METALS, CYANIDE AND TOTAL PHENOLS mg/l		PESTICIDES ug/l		VOLATILE COMPOUNDS ug/l	
Antimony, Total (7440-36-0)	ND	4,4'-DDT (50-29-3)	ND	Acrolein (107-02-8)	ND
Arsenic, Total (7440-38-2)	0.022	4,4'-DDE (72-55-9)	ND	Acrylonitrile (107-13-1)	ND
Beryllium, Total (7440-41-7)	ND	4,4'-DDD (72-54-8)	ND	Benzene (71-43-2)	ND
Cadmium, Total (7440-43-9)	ND	Dieldrin (60-57-1)	ND	Bis (Chloromethyl) Ether (542-88-1)	ND
Chromium, Total (7440-47-3)	ND	$\alpha$ -Endosulfan (115-29-7)	ND	Bromoform (75-25-2)	ND
Copper, Total (7550-50-8)	0.026	$\beta$ -Endosulfan (115-29-7)	ND	Carbon Tetrachloride (56-23-5)	ND
Lead, Total (7439-92-1)	0.233	Endosulfan Sulfate (1031-07-8)	ND	Chlorobenzene (108-90-7)	ND
Mercury, Total (7439-97-6)	ND	Endrin (72-20-8)	ND	Chlorodibromomethane (124-48-1)	ND
Nickel, Total (7440-02-0)	0.018	Endrin Aldehyde (7421-93-4)	ND	Chloroethane (75-00-3)	ND
Selenium, Total (7782-49-2)	0.010	Heptachlor (76-44-8)	ND	2-Chloroethylvinyl Ether (110-75-8)	ND
Silver, Total (7440-22-4)	ND	Heptachlor Epoxide (1024-57-3)	ND	Chloroform (67-66-3)	ND
Thallium, Total (7440-28-0)	ND	PCB-1242 (53469-21-9)	ND	Dichlorobromomethane (75-27-4)	ND
Zinc, Total (7440-66-6)	0.253	PCB-1254 (11097-69-1)	ND	Dichlorodifluoromethane (75-71-8)	ND
Cyanide, Total (57-12-5)	ND	PCB-1221 (11104-28-2)	ND	1,1-Dichloroethane (75-34-3)	ND
Phenols, Total		PCB-1232 (11141-16-5)	ND	1,2-Dichloroethane (107-06-2)	ND
		PCB-1248 (12672-29-6)	ND	1,1-Dichloroethylene (75-35-4)	ND
		PCB-1260 (11096-82-5)	ND	1,2-Dichloropropane (78-87-5)	ND
		PCB-1016 (12674-11-2)	ND	1,3-Dichloropropylene (542-75-6)	ND
		Toxaphene (8001-35-2)	ND	Ethylbenzene (100-41-4)	ND
				Methyl Bromide (74-83-9)	ND
				Methyl Chloride (74-87-3)	ND
				Methylene Chloride (75-09-2)	ND
				1,1,2,2-Tetrachloroethane (79-34-5)	ND
				Tetrachloroethylene (127-18-4)	ND

PESTICIDES ug/l	
Aldrin (309-00-2)	ND
$\alpha$ -BHC (319-84-6)	0.021
$\beta$ -BHC (319-85-7)	ND
$\gamma$ -BHC (58-89-9)	ND
$\delta$ -BHC 319-86-8)	ND
Chlordane (57-74-9)	ND

DIOXIN ug/l	
2,3,7,8 Tetrachlorodibenzo-P- Dioxin (1764-01-6)	ND

ND - Not detected  
BLANK - Not analyzed

Table 193.--Priority pollutants data 1300-1500, May 28, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood  
[Composite sample]

METALS, CYANIDE AND TOTAL PHENOLS mg/l		PESTICIDES ug/l		VOLATILE COMPOUNDS ug/l	
Antimony, Total (7440-36-0)	ND	4,4'-DDT (50-29-3)	ND	Acrolein (107-02-8)	ND
Arsenic, Total (7440-38-2)	0.007	4,4'-DDE (72-55-9)	ND	Acrylonitrile (107-13-1)	ND
Beryllium, Total (7440-41-7)	ND	4,4'-DDD (72-54-8)	ND	Benzene (71-43-2)	ND
Cadmium, Total (7440-43-9)	ND	Dieldrin (60-57-1)	ND	Bis ( <i>Chloromethyl</i> ) Ether (542-88-1)	ND
Chromium, Total (7440-47-3)	ND	$\alpha$ -Endosulfan (115-29-7)	ND	Bromoform (75-25-2)	ND
Copper, Total (7550-50-8)	0.026	$\beta$ -Endosulfan (115-29-7)	ND	Carbon Tetrachloride (56-23-5)	ND
Lead, Total (7439-92-1)	0.200	Endosulfan Sulfate (1031-07-8)	ND	Chlorobenzene (108-90-7)	ND
Mercury, Total (7439-97-6)	ND	Endrin (72-20-8)	ND	Chlorodibromomethane (124-48-1)	ND
Nickel, Total (7440-02-0)	ND	Endrin Aldehyde (7421-93-4)	ND	Chloroethane (75-00-3)	ND
Selenium, Total (7782-49-2)	0.025	Heptachlor (76-44-8)	ND	2-Chloroethylvinyl Ether (110-75-8)	ND
Silver, Total (7440-22-4)	ND	Heptachlor Epoxide (1024-57-3)	ND	Chloroform (67-66-3)	ND
Thallium, Total (7440-28-0)	ND	PCB-1242 (53469-21-9)	ND	Dichlorobromomethane (75-27-4)	ND
Zinc, Total (7440-66-6)	0.161	PCB-1254 (11097-69-1)	ND	Dichlorodifluoromethane (75-71-8)	ND
Cyanide, Total (57-12-5)	ND	PCB-1221 (11104-28-2)	ND	1,1-Dichloroethane (75-34-3)	ND
Phenols, Total		PCB-1232 (11141-16-5)	ND	1,2-Dichloroethane (107-06-2)	ND
		PCB-1248 (12672-29-6)	ND	1,1-Dichloroethylene (75-35-4)	ND
		PCB-1260 (11096-82-5)	ND	1,2-Dichloropropane (78-87-5)	ND
		PCB-1016 (12674-11-2)	ND	1,3-Dichloropropylene (542-75-6)	ND
		Toxaphene (8001-35-2)	ND	Ethylbenzene (100-41-4)	ND
				Methyl Bromide (74-83-9)	ND
				Methyl Chloride (74-87-3)	ND
				Methylene Chloride (75-09-2)	ND
				1,1,2,2-Tetrachloroethane (79-34-5)	ND
				Tetrachloroethylene (127-18-4)	ND

PESTICIDES ug/l	
Aldrin (309-00-2)	ND
$\alpha$ -BHC (319-84-6)	0.047
$\beta$ -BHC (319-85-7)	ND
$\gamma$ -BHC (58-89-9)	ND
$\delta$ -BHC 319-86-8)	ND
Chlordane (57-74-9)	ND

DIOXIN ug/l	
2,3,7,8 Tetrachlorodibenzo-P- Dioxin (1764-01-6)	ND

ND - Not detected  
BLANK - Not analyzed

Table 193.--Priority pollutants data 1300-1500, May 28, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood  
[Composite sample]--Continued

VOLATILE COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l	
Toluene (108-88-3)	ND	2-Chloronaphthalene (91-58-7)	ND	Nitrobenzene (98-95-3)	ND
1,2-Trans-Dichloroethylene (156-60-5)	ND	4-Chlorophenyl Phenyl Ether (7005-72-3)	ND	N-Nitrosodimethylamine (62-75-9)	ND
1,1,1-Trichloroethane (71-55-6)	ND	Chrysene (218-01-9)	ND	N-Nitrosodi-N-Propylamine (621-64-7)	ND
1,1,2-Trichloroethane (79-00-5)	ND	Dibenzo (a,h) Anthracene (53-70-3)	ND	N-Nitrosodiphenylamine (86-30-6)	ND
Trichloroethylene (79-01-6)	ND	1,2-Dichlorobenzene (95-50-1)	ND	Phenanthrene (85-01-8)	ND
Trichlorofluoromethane (75-69-4)	ND	1,3-Dichlorobenzene (541-73-1)	ND	Pyrene (129-00-0)	ND
Vinyl Chloride (75-01-4)	ND	1,4-Dichlorobenzene (106-46-7)	ND	1,2,4-Trichlorobenzene (120-82-1)	ND
		3,3'-Dichlorobenzidine (91-94-1)	ND		
		Diethyl Phthalate (84-66-2)	ND	ACID COMPOUNDS ug/l	
BASE/NEUTRAL COMPOUNDS ug/l		Dimethyl Phthalate (131-11-3)	ND	2-Chloropheno (95-57-8)	ND
Acenaphthene (83-32-9)	ND	Di-N-Butyl Phthalate (84-74-2)	ND	2,4-Dichlorophenol (120-83-2)	ND
Acenaphthylene (208-96-8)	ND	2,4-Dinitrotoluene (121-14-2)	ND	2,4-Dimethylphenol (105-67-9)	ND
Anthracene (120-12-7)	ND	2,6-Dinitrotoluene (606-20-2)	ND	4,6-Dinitro-O-Cresol (534-52-1)	ND
Benzidine (92-87-5)	ND	Di-N-Octyl Phthalate (117-84-0)	ND	2,4-Dinitrophenol (51-28-5)	ND
Benzo (a) Anthracene (56-55-3)	ND	1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	ND	2-Nitrophenol (88-75-5)	ND
Benzo (a) Pyrene (50-32-8)	ND	Fluoranthene (206-44-0)	ND	4-Nitrophenol (100-02-7)	ND
3,4-Benzofluoranthene (205-99-2)	ND	Fluorene (86-73-7)	ND	P-Chloro-M-Cresol (59-50-7)	ND
Benzo (ghi) Perylene (191-24-2)	ND	Hexachlorobenzene (118-71-1)	ND	Pentachlorophenol (87-86-5)	ND
Benzo (k) Fluoranthene (207-08-9)	ND	Hexachlorobutadiene (87-68-3)	ND	Phenol (108-95-2)	ND
Bis (2-Chloroethoxy) Methane (111-91-1)	ND	Hexachlorocyclopentadiene (77-47-4)	ND	2,4,6-Trichlorophenol (88-06-2)	ND
Bis (2-Chloroethyl) Ether (111-44-4)	ND	Hexachloroethane (67-72-1)	ND	ND - Not detected BLANK - Not analyzed	
Bis (2-Chloroisopropyl) Ether (39638-32-9)	ND	Indeno (1,2,3-cd) Pyrene (193-39-5)	ND		
Bis (2-Ethylhexyl) Phthalate (117-81-7)	ND	Isophorone (78-59-1)	ND		
4-Bromophenyl Phenyl Ether (101-55-3)	ND	Naphthalene (91-20-3)	ND		
Butyl Benzyl Phthalate (85-68-7)	ND				

Table 194.--Priority pollutants data 1129, August 12, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood  
[Discrete sample]

METALS, CYANIDE AND TOTAL PHENOLS mg/l		PESTICIDES ug/l		VOLATILE COMPOUNDS ug/l	
Antimony, Total (7440-36-0)	ND	4,4'-DDT (50-29-3)	ND	Acrolein (107-02-8)	ND
Arsenic, Total (7440-38-2)	0.024	4,4'-DDE (72-55-9)	ND	Acrylonitrile (107-13-1)	ND
Beryllium, Total (7440-41-7)	ND	4,4'-DDD (72-54-8)	ND	Benzene (71-43-2)	ND
Cadmium, Total (7440-43-9)	0.006	Dieldrin (60-57-1)	ND	Bis ( <i>Chloromethyl</i> ) Ether (542-88-1)	ND
Chromium, Total (7440-47-3)	0.024	$\alpha$ -Endosulfan (115-29-7)	ND	Bromoform (75-25-2)	ND
Copper, Total (7550-50-8)	0.055	$\beta$ -Endosulfan (115-29-7)	ND	Carbon Tetrachloride (56-23-5)	ND
Lead, Total (7439-92-1)	0.39	Endosulfan Sulfate (1031-07-8)	ND	Chlorobenzene (108-90-7)	ND
Mercury, Total (7439-97-6)	ND	Endrin (72-20-8)	ND	Chlorodibromomethane (124-48-1)	ND
Nickel, Total (7440-02-0)	ND	Endrin Aldehyde (7421-93-4)	ND	Chloroethane (75-00-3)	ND
Selenium, Total (7782-49-2)	ND	Heptachlor (76-44-8)	ND	2-Chloroethylvinyl Ether (110-75-8)	ND
Silver, Total (7440-22-4)	ND	Heptachlor Epoxide (1024-57-3)	ND	Chloroform (67-66-3)	ND
Thallium, Total (7440-28-0)	ND	PCB-1242 (53469-21-9)	ND	Dichlorobromomethane (75-27-4)	ND
Zinc, Total (7440-66-6)	0.34	PCB-1254 (11097-69-1)	ND	Dichlorodifluoromethane (75-71-8)	ND
Cyanide, Total (57-12-5)	0.033	PCB-1221 (11104-28-2)	ND	1,1-Dichloroethane (75-34-3)	ND
Phenols, Total		PCB-1232 (11141-16-5)	ND	1,2-Dichloroethane (107-06-2)	ND
		PCB-1248 (12672-29-6)	ND	1,1-Dichloroethylene (75-35-4)	ND
		PCB-1260 (11096-82-5)	ND	1,2-Dichloropropane (78-87-5)	ND
		PCB-1016 (12674-11-2)	ND	1,3-Dichloropropylene (542-75-6)	ND
		Toxaphene (8001-35-2)	ND	Ethylbenzene (100-41-4)	ND
				Methyl Bromide (74-83-9)	ND
				Methyl Chloride (74-87-3)	ND
				Methylene Chloride (75-09-2)	S
				1,1,2,2-Tetrachloroethane (79-34-5)	ND
				Tetrachloroethylene (127-18-4)	23

PESTICIDES ug/l	
Aldrin (309-00-2)	ND
$\alpha$ -BHC (319-84-6)	0.0075
$\beta$ -BHC (319-85-7)	ND
$\gamma$ -BHC (58-89-9)	ND
$\delta$ -BHC 319-86-8)	ND
Chlordane (57-74-9)	ND

DIOXIN ug/l	
2,3,7,8 Tetrachlorodibenzo-P-Dioxin (1764-01-6)	ND

ND - Not detected  
BLANK - Not analyzed

Table 194.--Priority pollutants data 1129, August 12, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood  
[Discrete sample]--Continued

VOLATILE COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l	
Toluene (108-88-3)	ND	2-Chloronaphthalene (91-58-7)	ND	Nitrobenzene (98-95-3)	ND
1,2 Trans-Dichloroethylene (156-60-5)	ND	4-Chlorophenyl Phenyl Ether (7005-72-3)	ND	N-Nitrosodimethylamine (62-75-9)	ND
1,1,1-Trichloroethane (71-55-6)	ND	Chrysene (218-01-9)	ND	N-Nitrosodi-N-Propylamine (621-64-7)	ND
1,1,2-Trichloroethane (79-00-5)	ND	Dibenzo ( <i>a,h</i> ) Anthracene (53-70-3)	ND	N-Nitrosodiphenylamine (86-30-6)	ND
Trichloroethylene (79-01-6)	ND	1,2-Dichlorobenzene (95-50-1)	ND	Phenanthrene (85-01-8)	ND
Trichlorofluoromethane (75-69-4)	ND	1,3-Dichlorobenzene (541-73-1)	ND	Pyrene (129-00-0)	ND
Vinyl Chloride (75-01-4)	ND	1,4-Dichlorobenzene (106-46-7)	ND	1,2,4-Trichlorobenzene (120-82-1)	ND
		3,3'-Dichlorobenzidine (91-94-1)	ND		
		Diethyl Phthalate (84-66-2)	ND	ACID COMPOUNDS ug/l	
BASE/NEUTRAL COMPOUNDS ug/l		Dimethyl Phthalate (131-11-3)	ND	2-Chloropheno (95-57-8)	ND
Acenaphthene (83-32-9)	ND	Di-N-Butyl Phthalate (84-74-2)	ND	2,4-Dichlorophenol (120-83-2)	ND
Acenaphthylene (208-96-8)	ND	2,4-Dinitrotoluene (121-14-2)	ND	2,4-Dimethylphenol (105-67-9)	ND
Anthracene (120-12-7)	ND	2,6-Dinitrotoluene (606-20-2)	ND	4,6-Dinitro-O-Cresol (534-52-1)	ND
Benzidine (92-87-5)	ND	Di-N-Octyl Phthalate (117-84-0)	ND	2,4-Dinitrophenol (51-28-5)	ND
Benzo ( <i>a</i> ) Anthracene (56-55-3)	ND	1,2-Diphenylhydrazine ( <i>as Azobenzene</i> ) (122-66-7)	ND	2-Nitrophenol (88-75-5)	ND
Benzo ( <i>a</i> ) Pyrene (50-32-8)	ND	Fluoranthene (206-44-0)	ND	4-Nitrophenol (100-02-7)	ND
3,4-Benzofluoranthene (205-99-2)	ND	Fluorene (86-73-7)	ND	P-Chloro-M-Cresol (59-50-7)	ND
Benzo ( <i>ghi</i> ) Perylene (191-24-2)	ND	Hexachlorobenzene (118-71-1)	ND	Pentachlorophenol (87-86-5)	ND
Benzo ( <i>k</i> ) Fluoranthene (207-08-9)	ND	Hexachlorobutadiene (87-68-3)	ND	Phenol (108-95-2)	ND
Bis (2-Chloroethoxy) Methane (111-91-1)	ND	Hexachlorocyclopentadiene (77-47-4)	ND	2,4,6-Trichlorophenol (88-06-2)	ND
Bis (2-Chloroethyl) Ether (111-44-4)	ND	Hexachloroethane (67-72-1)	ND	ND - Not detected BLANK - Not analyzed	
Bis (2-Chloroisopropyl) Ether (39638-32-9)	ND	Indeno (1,2,3- <i>cd</i> ) Pyrene (193-39-5)	ND		
Bis (2-Ethylhexyl) Phthalate (117-81-7)	ND	Isophorone (78-59-1)	ND		
4-Bromophenyl Phenyl Ether (101-55-3)	ND	Naphthalene (91-20-3)	ND		
Butyl Benzyl Phthalate (85-68-7)	ND				

Table 195.--Priority pollutants data 1129-1157, August 12, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood  
[Composite sample]

METALS, CYANIDE AND TOTAL PHENOLS mg/l		PESTICIDES ug/l		VOLATILE COMPOUNDS ug/l	
Antimony, Total (7440-36-0)	ND	4,4'-DDT (50-29-3)	ND	Acrolein (107-02-8)	ND
Arsenic, Total (7440-38-2)	0.016	4,4'-DDE (72-55-9)	ND	Acrylonitrile (107-13-1)	ND
Beryllium, Total (7440-41-7)	ND	4,4'-DDD (72-54-8)	ND	Benzene (71-43-2)	ND
Cadmium, Total (7440-43-9)	ND	Dieldrin (60-57-1)	ND	Bis ( <i>Chloromethyl</i> ) Ether (542-88-1)	ND
Chromium, Total (7440-47-3)	0.022	$\alpha$ -Endosulfan (115-29-7)	ND	Bromoform (75-25-2)	ND
Copper, Total (7550-50-8)	0.048	$\beta$ -Endosulfan (115-29-7)	ND	Carbon Tetrachloride (56-23-5)	ND
Lead, Total (7439-92-1)	0.27	Endosulfan Sulfate (1031-07-8)	ND	Chlorobenzene (108-90-7)	ND
Mercury, Total (7439-97-6)	ND	Endrin (72-20-8)	ND	Chlorodibromomethane (124-48-1)	ND
Nickel, Total (7440-02-0)	0.02	Endrin Aldehyde (7421-93-4)	ND	Chloroethane (75-00-3)	ND
Selenium, Total (7782-49-2)	ND	Heptachlor (76-44-8)	ND	2-Chloroethylvinyl Ether (110-75-8)	ND
Silver, Total (7440-22-4)	ND	Heptachlor Epoxide (1024-57-3)	ND	Chloroform (67-66-3)	ND
Thallium, Total (7440-28-0)	ND	PCB-1242 (53469-21-9)	ND	Dichlorobromomethane (75-27-4)	ND
Zinc, Total (7440-66-6)	0.27	PCB-1254 (11097-69-1)	ND	Dichlorodifluoromethane (75-71-8)	ND
Cyanide, Total (57-12-5)	0.014	PCB-1221 (11104-28-2)	ND	1,1-Dichloroethane (75-34-3)	ND
Phenols, Total		PCB-1232 (11141-16-5)	ND	1,2-Dichloroethane (107-06-2)	ND
		PCB-1248 (12672-29-6)	ND	1,1-Dichloroethylene (75-35-4)	ND
		PCB-1260 (11096-82-5)	ND	1,2-Dichloropropane (78-87-5)	ND
		PCB-1016 (12674-11-2)	ND	1,3-Dichloropropylene (542-75-6)	ND
		Toxaphene (8001-35-2)	ND	Ethylbenzene (100-41-4)	ND
				Methyl Bromide (74-83-9)	ND
				Methyl Chloride (74-87-3)	ND
				Methylene Chloride (75-09-2)	ND
				1,1,2,2-Tetrachloroethane (79-34-5)	ND
				Tetrachloroethylene (127-18-4)	9

PESTICIDES ug/l	
Aldrin (309-00-2)	ND
$\alpha$ -BHC (319-84-6)	0.020
$\beta$ -BHC (319-85-7)	ND
$\gamma$ -BHC (58-89-9)	ND
$\delta$ -BHC 319-86-8)	ND
Chlordane (57-74-9)	ND

DIOXIN ug/l	
2,3,7,8 Tetrachlorodibenzo-P- Dioxin (1764-01-6)	ND

ND - Not detected  
BLANK - Not analyzed



Table 195.--Priority pollutants data 1129-1157, August 12, 1981, for station  
394236105042400 Villa Italia Storm Drain at Lakewood  
[Composite sample]--Continued

VOLATILE COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l		BASE/NEUTRAL COMPOUNDS ug/l	
Toluene (108-88-3)	ND	2-Chloronaphthalene (91-58-7)	ND	Nitrobenzene (98-95-3)	ND
1,2-Trans-Dichloroethylene (156-60-5)	ND	4-Chlorophenyl Phenyl Ether (7005-72-3)	ND	N-Nitrosodimethylamine (62-75-9)	ND
1,1,1-Trichloroethane (71-55-6)	ND	Chrysene (218-01-9)	ND	N-Nitrosodi-N-Propylamine (621-64-7)	ND
1,1,2-Trichloroethane (79-00-5)	ND	Dibenzo (a,h) Anthracene (53-70-3)	ND	N-Nitrosodiphenylamine (86-30-6)	ND
Trichloroethylene (79-01-6)	ND	1,2-Dichlorobenzene (95-50-1)	ND	Phenanthrene (85-01-8)	ND
Trichlorofluoromethane (75-69-4)	ND	1,3-Dichlorobenzene (541-73-1)	ND	Pyrene (129-00-0)	ND
Vinyl Chloride (75-01-4)	ND	1,4-Dichlorobenzene (106-46-7)	ND	1,2,4-Trichlorobenzene (120-82-1)	ND
		3,3'-Dichlorobenzidine (91-94-1)	ND		
		Diethyl Phthalate (84-66-2)	ND		
BASE/NEUTRAL COMPOUNDS ug/l				ACID COMPOUNDS ug/l	
Acenaphthene (83-32-9)	ND	Dimethyl Phthalate (131-11-3)	ND	2-Chloropheno (95-57-8)	ND
Acenaphthylene (208-96-8)	ND	Di-N-Butyl Phthalate (84-74-2)	11	2,4-Dichlorophenol (120-83-2)	ND
Anthracene (120-12-7)	ND	2,4-Dinitrotoluene (121-14-2)	ND	2,4-Dimethylphenol (105-67-9)	ND
Benzidine (92-87-5)	ND	2,6-Dinitrotoluene (606-20-2)	ND	4,6-Dinitro-O-Cresol (534-52-1)	ND
Benzo (a) Anthracene (56-55-3)	ND	Di-N-Octyl Phthalate (117-84-0)	ND	2,4-Dinitrophenol (51-28-5)	ND
Benzo (a) Pyrene (50-32-8)	ND	1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	ND	2-Nitrophenol (88-75-5)	ND
3,4-Benzofluoranthene (205-99-2)	ND	Fluoranthene (206-44-0)	ND	4-Nitrophenol (100-02-7)	ND
Benzo (ghi) Perylene (191-24-2)	ND	Fluorene (86-73-7)	ND	P-Chloro-M-Cresol (59-50-7)	ND
Benzo (k) Fluoranthene (207-08-9)	ND	Hexachlorobenzene (118-71-1)	ND	Pentachlorophenol (87-86-5)	ND
Bis (2-Chloroethoxy) Methane (111-91-1)	ND	Hexachlorobutadiene (87-68-3)	ND	Phenol (108-95-2)	ND
Bis (2-Chloroethyl) Ether (111-44-4)	ND	Hexachlorocyclopentadiene (77-47-4)	ND	2,4,6-Trichlorophenol (88-06-2)	ND
Bis (2-Chloroisopropyl) Ether (39638-32-9)	ND	Hexachloroethane (67-72-1)	ND		
Bis (2-Ethylhexyl) Phthalate (117-81-7)	ND	Indeno (1,2,3-cd) Pyrene (193-39-5)	ND		
4-Bromophenyl Phenyl Ether (101-55-3)	ND	Isophorone (78-59-1)	ND		
Butyl Benzyl Phthalate (85-68-7)	ND	Naphthalene (91-20-3)	ND		

ND - Not detected  
BLANK - Not analyzed

# RUNOFF DATA FOR THE SOUTH PLATTE RIVER STUDY

Runoff data are presented for the following stations:

Station number and name		Table
06710000	South Platte River at Littleton-----	196-206
06711500	Bear Creek at mouth-----	207-209
06711575	Harvard Gulch at Harvard Park-----	210-211
06711590	South Platte River at Florida Avenue-----	212-216
06711610	Sanderson Gulch at mouth-----	217-219
06711622	Weir Gulch at mouth-----	220-222
06711800	Lakewood Gulch at mouth-----	223-225
06713500	Cherry Creek at Denver-----	226-235
06714000	South Platte River at Denver-----	236-246
06714130	South Platte River at 50th Avenue-----	247-256

A definition of the abbreviation used in the tables is:

$\text{ft}^3/\text{s}$ =cubic foot per second

Table 196.--Runoff data, May 12-13, 1980, for station  
06710000 South Platte River at Littleton

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
30	146	1930	148
130	150	2030	148
230	150	2130	155
330	150	2230	158
430	152	2330	162
530	152	30	170
630	152	130	170
730	155	230	168
830	155	330	165
930	155	430	165
1030	155	530	165
1130	155	630	162
1230	155	730	160
1330	155	830	160
1430	155	930	165
1530	155	1030	165
1630	155	1130	168
1730	150	1230	168
1830	150		

Table 197.--Runoff data, July 11-12, 1980, for station  
06710000 South Platte River at Littleton

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1915	900	215	954
1930	900	230	954
1945	900	245	954
2000	903	300	954
2015	906	315	954
2030	912	330	954
2045	912	345	954
2100	918	400	954
2115	924	415	954
2130	930	430	954
2145	930	445	954
2200	930	500	954
2215	942	515	954
2230	942	530	954
2245	942	545	954
2300	942	645	954
2315	942	745	948
2330	942	845	948
2345	942	945	942
2400	942	1015	942
15	942	1045	936
30	936	1115	924
45	936	1145	912
100	942	1215	906
115	942	1245	906
130	942	1315	906
145	942	1345	900
200	948	1400	900

Table 198.--Runoff data, August 14-15, 1980, for station  
06710000 South Platte River at Littleton

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1500	112	2100	163
1515	112	2115	158
1530	128	2200	146
1545	155	2300	141
1600	236	2400	135
1615	243	100	133
1630	246	200	130
1645	257	300	128
1700	264	400	125
1715	268	500	125
1730	268	515	125
1745	254	530	125
1800	282	545	125
1815	236	600	122
1830	232	700	120
1845	225	800	120
1900	218	845	128
2000	185		

**Table 199.--Runoff data, September 8-9, 1980, for station  
06710000 South Platte River at Littleton**

<b>Time</b>	<b>Discharge, in ft<sup>3</sup>/s</b>	<b>Time</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
2100	77	345	103
2200	79	400	103
2215	79	415	103
2230	79	430	103
2245	81	445	103
2300	81	500	105
2315	82	515	105
2330	84	530	105
2345	86	545	108
2400	88	600	108
15	90	615	110
30	90	630	110
45	92	645	112
100	94	700	112
115	97	715	112
130	99	730	112
145	99	745	112
200	99	800	115
215	101	815	112
230	101	830	112
245	103	845	112
300	103	900	110
315	103	1000	108
330	103	1100	103

**Table 200.--Runoff data, March 3-6,1981, for station  
06710000 South Platte River at Littleton**

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
700	34	2100	75
800	34	2200	75
900	34	2300	74
1000	35	2400	72
1100	35	100	71
1200	35	200	71
1300	36	300	69
1400	36	400	69
1500	37	500	68
1600	37	600	68
1700	37	700	68
1800	37	800	68
1900	37	900	67
2000	36	1000	67
2100	38	1100	68
2200	39	1200	69
2300	40	1300	71
2400	41	1400	75
100	41	1500	77
200	41	1600	80
300	41	1700	82
400	35	1800	83
500	35	1900	83
600	36	2000	82
700	37	2100	82
800	37	2200	80
900	42	2300	78
1000	48	2400	77
1100	42	100	75
1200	41	200	75
1300	41	300	74
1400	43	400	74
1500	67	500	72
1600	69	600	72
1700	77	700	71
1800	77	800	69
1900	77	900	67
2000	77		

Table 201.--Runoff data, April 3-4,1981, for station  
06710000 South Platte River at Littleton

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
100	14	2000	56
200	14	2100	54
300	14	2200	53
400	14	2300	51
500	14	2400	49
600	14	100	47
700	24	200	45
800	31	300	44
900	31	400	44
1000	45	500	43
1100	59	600	43
1200	55	700	42
1300	56	800	42
1400	54	900	42
1500	54	1000	41
1600	59	1100	41
1700	59	1200	40
1800	57	1300	40
1900	57		



**Table 202.--Runoff data, May 3-4,1981, for station  
06710000 South Platte River at Littleton**

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
100	69	2000	88
200	69	2100	83
300	71	2200	83
400	72	2300	88
500	85	2400	86
600	82	100	86
700	83	200	85
800	82	300	83
900	80	400	82
1000	77	500	80
1100	75	600	78
1200	75	700	87
1300	77	800	78
1400	132	900	77
1500	139	1000	76
1600	122	1100	75
1700	109	1200	74
1800	105	1300	74

Table 203.--Runoff data, May 16-18, 1981, for station  
06710000 South Platte River at Littleton

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1200	78	1200	122
1300	78	1300	122
1400	96	1400	118
1500	98	1500	120
1600	98	1600	124
1700	98	1700	141
1800	92	1800	148
1900	88	1900	152
2000	90	2000	168
2100	90	2100	165
2200	90	2200	158
2300	88	2300	148
2400	88	2400	130
100	88	100	124
200	86	200	118
300	86	300	113
400	86	400	109
500	86	500	107
600	86	600	105
700	98	700	103
800	103	800	101
900	118	900	96
1000	120	1000	94
1100	122	1100	92

Table 204.--Runoff data, May 27-29, 1981, for station  
06710000 South Platte River at Littleton

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1300	68	1900	72
1400	68	2000	72
1500	68	2100	72
1600	68	2200	74
1700	68	2300	77
1800	68	2400	78
1900	68	100	78
2000	68	200	126
2100	71	300	137
2200	74	400	150
2300	83	500	162
2400	80	600	158
100	77	700	150
200	74	800	155
300	72	900	130
400	80	1000	118
500	78	1100	118
600	78	1200	122
700	78	1300	120
800	77	1400	115
900	77	1500	107
1000	77	1600	103
1100	75	1700	98
1200	74	1800	92
1300	72	1900	86
1400	71	2000	82
1500	71	2100	80
1600	71	2200	78
1700	71	2300	77
1800	72		

Table 205.--Runoff data, June 2-3,1981, for station  
06710000 South Platte River at Littleton

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
100	111	100	137
200	111	200	139
300	111	300	135
400	111	400	132
500	111	500	132
600	111	600	132
700	111	700	130
800	111	800	128
900	111	900	124
1000	111	1000	122
1100	111	1100	120
1200	111	1200	118
1300	111	1300	105
1400	111	1400	98
1500	111	1500	96
1600	111	1600	101
1700	111	1700	96
1800	111	1800	96
1900	111	1900	96
2000	111	2000	96
2100	111	2100	92
2200	111	2200	92
2300	120	2300	92
2400	128	2400	92

316 Table 206.--Runoff data, July 25-27,1981, for station  
06710000 South Platte River at Littleton

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1830	118	2130	160
1930	118	2230	152
2030	118	2330	185
2130	118	30	180
2230	118	130	180
2330	118	230	192
30	118	330	172
130	118	430	170
230	118	530	170
330	118	630	170
430	118	730	165
530	118	830	158
630	118	930	150
730	118	1030	146
830	118	1130	139
930	118	1230	135
1030	118	1330	130
1130	118	1430	130
1230	118	1530	128
1330	118	1630	126
1430	118	1730	124
1530	118	1830	124
1630	118	1930	141
1730	118	2030	185
1830	118	2130	195
1930	122	2230	198
2030	128	2330	198

Table 207.--Runoff data, August 14, 1980, for station  
06711500 Bear Creek at mouth, at Sheridan

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1530	45	1720	204
1540	64	1820	99
1550	362	1850	83
1610	647	2005	66
1625	483	2010	64
1658	229	2100	56
1710	206	2320	48

Table 208.--Runoff data, March 4, 1981, for station  
06711500 Bear Creek at mouth, at Sheridan

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1100	12	1915	26
1200	14	1950	26
1230	16	2100	23
1300	27	2200	21
1400	42	2306	19
1430	49	2400	18
1500	55	100	16
1530	53	200	15
1615	49	300	14
1700	42	400	14
1750	42	500	12
1850	27	600	12

Table 209.--Runoff data, May 28, 1981, for station  
06711500 Bear Creek at mouth, at Sheridan

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1330	262	1445	359
1425	447	1545	328

Table 210.--Runoff data, August 14, 1980, for station  
06711575 Harvard Gulch at Harvard Park, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1500	2.5	1850	21
1525	2.5	1855	20
1530	4.8	1900	19
1535	13	1905	18
1540	24	1910	17
1545	36	1915	16
1550	51	1920	16
1555	67	1925	16
1600	86	1930	15
1605	94	1935	15
1610	105	1940	15
1615	139	1945	14
1620	203	1950	14
1625	239	1955	14
1630	227	2000	14
1635	209	2005	13
1640	192	2010	13
1645	180	2015	13
1650	165	2020	13
1655	149	2025	13
1700	136	2030	13
1705	122	2035	12
1710	110	2040	12
1715	99	2045	12
1720	92	2050	11
1725	84	2055	11
1730	75	2100	11
1735	68	2105	11
1740	63	2110	10
1745	57	2115	9.7
1750	53	2120	9.3
1755	48	2125	9.1
1800	44	2130	8.7
1805	41	2135	8.4
1810	37	2140	8.1
1815	34	2145	7.8
1820	32	2150	7.5
1825	30	2155	7.2
1830	28	2200	6.9
1835	26	2205	6.6
1840	24	2210	6.3
1845	23	2215	6.0

Table 210.--Runoff data, August 14, 1980, for station  
06711575 Harvard Gulch at Harvard Park, at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
2220	5.7	2300	4.2
2225	5.5	2305	4.1
2230	5.3	2310	3.9
2235	5.1	2315	3.8
2240	4.9	2320	3.7
2245	4.7	2325	3.6
2250	4.6	2330	3.5

Table 211.--Runoff data, March 4, 1981, for station  
06711575 Harvard Gulch at Harvard Park, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1510	E 87	2130	E 37
1700	E 82	2247	E 30



Table 212.--Runoff data, May 3-4, 1981, for station  
06711590 South Platte River at Florida Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
30	102	1830	291
100	102	1900	285
130	102	1930	275
200	99	2000	262
230	99	2030	255
300	99	2100	250
330	102	2130	256
400	111	2200	293
430	129	2230	285
500	159	2300	293
530	172	2330	281
600	178	2400	275
630	182	30	260
700	177	100	248
730	165	130	231
800	160	200	222
830	154	230	209
900	148	300	197
930	142	330	183
1000	135	400	176
1030	130	430	171
1100	135	500	165
1130	147	530	160
1200	153	600	158
1230	154	630	156
1300	153	700	153
1330	159	730	150
1400	246	800	148
1430	528	830	147
1500	530	900	148
1530	357	930	152
1600	337	1000	154
1630	323	1030	162
1700	305	1100	164
1730	293	1130	164
1800	289	1200	162

Table 212.--Runoff data, May 3-4,1981, for station  
06711590 South Platte River at Florida Avenue, at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1230	159	1830	122
1300	156	1900	120
1330	146	1930	120
1400	141	2000	119
1430	136	2030	118
1500	134	2100	119
1530	130	2130	119
1600	128	2200	120
1630	126	2230	120
1700	126	2300	120
1730	126	2330	120
1800	124	2400	120

Table 213.--Runoff data, May 11-13, 1981, for station  
06711590 South Platte River at Florida Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
2300	182	2400	303
2400	180	100	289
100	177	200	265
200	174	300	258
300	171	400	250
400	171	500	246
500	172	600	238
600	171	700	231
700	176	800	228
800	178	900	228
900	185	1000	228
1000	199	1100	226
1100	199	1200	222
1200	194	1300	221
1300	194	1400	219
1400	188	1500	216
1500	187	1600	197
1600	187	1700	177
1700	182	1800	162
1800	178	1900	152
1900	172	2000	146
2000	174	2100	142
2100	190	2200	138
2200	260	2300	135
2300	279		

**Table 214 --Runoff data, May 16-18,1981, for station  
06711590 South Platte River at Florida Avenue, at Denver**

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
500	119	1500	343
600	118	1600	397
700	114	1700	420
800	114	1800	442
900	113	1900	422
1000	114	2000	405
1100	119	2100	385
1200	129	2200	376
1300	170	2300	369
1400	240	2400	365
1500	250	100	349
1600	241	200	323
1700	229	300	303
1800	214	400	279
1900	206	500	265
2000	180	600	251
2100	171	700	243
2200	162	800	238
2300	158	900	238
2400	156	1000	238
100	154	1100	233
200	153	1200	234
300	148	1300	221
400	142	1400	222
500	147	1500	238
600	165	1600	255
700	234	1700	258
800	285	1800	258
900	289	1900	258
1000	295	2000	258
1100	289	2100	258
1200	293	2200	256
1300	293	2300	255
1400	287		

Table 215.--Runoff data, May 27-29, 1981, for station  
06711590 South Platte River at Florida Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
2030	106	630	165
2045	106	645	166
2100	106	700	166
2115	106	715	168
2130	106	730	168
2145	106	745	170
2200	114	800	172
2215	129	815	176
2230	160	830	177
2245	212	845	180
2300	231	900	182
2315	228	915	182
2330	219	930	183
2345	212	945	183
2400	209	1000	182
15	206	1015	180
30	204	1030	178
45	202	1045	177
100	197	1100	176
115	195	1115	174
130	195	1130	172
145	197	1145	172
200	199	1200	171
215	199	1215	168
230	199	1230	166
245	194	1245	164
300	183	1300	159
315	178	1315	153
330	177	1330	147
345	176	1345	144
400	174	1400	156
415	172	1415	219
430	183	1430	343
445	177	1445	548
500	178	1500	829
515	177	1515	735
530	174	1530	570
545	172	1545	465
600	168	1600	395
615	166	1615	349

Table 215.--Runoff data, May 27-29, 1981, for station  
06711590 South Platte River at Florida Avenue, at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1630	313	230	369
1645	291	245	359
1700	267	300	359
1715	255	315	359
1730	231	330	300
1745	221	345	525
1800	214	400	540
1815	207	415	555
1830	199	430	568
1845	195	445	555
1900	188	500	533
1915	188	515	492
1930	187	530	460
1945	187	545	430
2000	187	600	408
2015	185	615	393
2030	180	630	383
2045	178	645	367
2100	177	700	359
2115	176	715	359
2130	172	730	359
2145	172	745	355
2200	171	800	353
2215	172	815	351
2230	177	830	349
2245	192	845	343
2300	214	900	341
2315	233	915	337
2330	234	930	335
2345	238	945	335
2400	240	1000	333
15	236	1015	329
30	228	1030	323
45	221	1045	321
100	216	1100	319
115	211	1115	319
130	207	1130	323
145	216	1145	331
200	231	1200	333
215	279	1215	331

Table 215.--Runoff data, May 27-29, 1981, for station  
06711590 South Platte River at Florida Avenue, at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1230	325	1745	248
1245	321	1800	246
1300	311	1815	245
1315	305	1830	243
1330	303	1845	241
1345	301	1900	240
1400	295	1915	238
1415	293	1930	236
1430	289	1945	234
1445	279	2000	233
1500	275	2015	231
1515	269	2030	231
1530	265	2045	233
1545	263	2100	234
1600	262	2115	236
1615	260	2130	234
1630	258	2145	240
1645	256	2200	240
1700	155	2215	241
1715	251	2230	240
1730	250		

Table 216.--Runoff data, July 26-27,1981, for station  
06711590 South Platte River at Florida Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
430	160	130	385
500	159	200	365
530	158	230	347
600	159	300	329
630	160	330	319
700	160	400	315
730	162	430	313
800	164	500	305
830	166	530	303
900	168	600	299
930	171	630	291
1000	172	700	289
1030	174	730	287
1100	178	800	285
1130	182	830	285
1200	185	900	283
1230	190	930	283
1300	192	1000	281
1330	194	1030	279
1400	195	1100	277
1430	197	1200	273
1500	197	1230	271
1530	197	1300	265
1600	195	1330	263
1630	195	1400	256
1700	195	1430	251
1730	194	1500	250
1800	190	1530	148
1830	188	1600	245
1900	188	1630	243
1930	188	1700	241
2000	199	1730	241
2030	241	1800	238
2100	361	1830	236
2130	202	1900	233
2200	389	1930	229
2230	371	2000	228
2300	353	2030	224
2330	357	2100	222
2400	373	2130	222
30	401	2200	236
100	397	2230	245



Table 217.--Runoff data, August 14, 1980, for station  
06711610 Sanderson Gulch at mouth, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1525	4.0	1750	80
1542	4.0	1755	65
1605	10	1800	58
1610	23	1805	55
1615	41	1810	50
1620	60	1815	46
1625	92	1835	35
1630	170	1840	30
1633	205	1845	29
1635	218	1850	26
1640	260	1855	22
1645	270	1900	21
1650	310	1905	20
1655	320	1915	16
1700	296	1920	15
1710	260	1925	14
1715	218	1930	13
1720	205	1935	12
1725	170	1940	12
1730	148	1945	12
1735	125	1950	12
1740	114	1955	12
1745	92	2000	11

Table 218.--Runoff data, March 4,1981, for station  
06711610 Sanderson Gulch at mouth, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1320	25	1840	18
1457	94	2050	12
1645	55	2230	10

Table 219.--Runoff data, May 28,1981, for station  
06711610 Sanderson Gulch at mouth, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1435	93	1609	37
1440	148	1730	14

Table 220.--Runoff data, August 14, 1980, for station  
06711622 Weir Gulch at mouth, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1535	4.0	1637	56
1545	4.0	1647	75
1605	11	1700	92
1610	17	1720	97
1613	29	1830	75
1615	32	1900	52
1620	37	2030	27
1623	38	2200	4.0

Table 221.--Runoff data, March 4, 1981, for station  
06711622 Weir Gulch at mouth, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1437	11	2030	11
1635	7.5	2218	7.5

Table 222.--Runoff data, May 28, 1981, for station  
06711622 Weir Gulch at mouth, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1413	4.0	1521	41
1428	20	1611	25
1451	28	1741	18

Table 223.--Runoff data, August 14, 1980, for station  
06711800 Lakewood Gulch at mouth, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1545	2.5	1825	34
1600	6.5	1830	34
1605	24	1835	34
1610	27	1840	35
1615	43	1845	36
1625	51	1850	36
1630	57	1855	35
1635	60	1900	34
1640	65	1905	34
1645	81	1910	34
1650	86	1915	33
1700	71	1920	33
1710	58	1925	34
1725	46	1930	34
1730	44	1935	34
1735	43	1940	34
1740	42	1945	34
1800	39	1950	34
1805	38	1955	34
1810	36	2000	34
1815	36	2030	33

Table 224.--Runoff data, March 4,1981, for station  
06711800 Lakewood Gulch at mouth, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1430	E 65	2020	E 10
1615	E 65	2212	E 5.0

Table 225.--Runoff data, May 28,1981, for station  
06711800 Lakewood Gulch at mouth, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1435	59	1730	90
1520	29	1830	28

Table 226.--Runoff data, July 11-12, 1980, for station  
06713500 Cherry Creek at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1900	18	15	42
2000	22	30	40
2015	30	45	39
2030	80	100	36
2045	71	115	35
2100	62	130	33
2115	62	145	33
2130	58	200	33
2145	49	300	28
2200	47	400	24
2215	47	500	23
2230	49	530	23
2245	50	600	21
2300	50	700	22
2315	49	800	20
2330	47	900	20
2345	44	1000	19
2400	43	1100	15

Table 227.--Runoff data, August 14-15, 1980, for station  
06713500 Cherry Creek at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1445	20	345	89
1515	20	500	100
1530	75	800	71
1645	740	845	120
1700	254	915	96
1805	179	945	100
2100	172	1045	75
2200	128	1130	65
2345	96	2400	39
300	86		

Table 228.--Runoff data, September 8-10, 1980, for station  
06713500 Cherry Creek at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
2100	22	745	115
2130	24	800	112
2145	26	815	110
2200	28	830	107
2215	33	845	100
2230	43	900	100
2245	51	915	98
2300	60	930	98
2315	65	945	100
2330	63	1000	102
2345	65	1015	100
2400	73	1030	100
15	76	1045	100
30	75	1100	102
45	73	1115	107
100	86	1130	110
115	100	1145	107
130	102	1200	102
145	102	1215	100
200	100	1230	98
215	100	1245	98
230	107	1300	96
245	110	1315	93
300	110	1330	89
315	110	1345	86
330	112	1400	82
345	120	1415	80
400	123	1430	78
415	120	1445	76
430	115	1500	75
445	115	1515	75
500	115	1530	75
515	115	1545	73
530	112	1600	71
545	120	1615	69
600	128	1630	67
615	128	1645	67
630	130	1700	45
645	125	1800	60
700	123	1900	57
715	120	2000	53
730	117	2100	51

Table 228.--Runoff data, September 8-10, 1980, for station  
06713500 Cherry Creek at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
2200	53	1045	50
2300	51	1100	50
2400	50	1200	44
100	49	1300	44
200	47	1400	47
300	47	1500	43
400	44	1600	40
500	50	1700	39
600	51	1800	38
700	62	1900	38
800	57	2000	36
900	53	2100	36
1000	53	2200	36
1015	53	2300	36
1030	51	2330	36



Table 229.--Runoff data, March 3-6,1981, for station  
06713500 Cherry Creek at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
500	12	2100	36
600	12	2200	34
700	12	2300	28
800	12	2400	25
900	12	100	22
1000	12	200	20
1100	14	300	18
1200	23	400	16
1300	32	500	15
1400	28	600	14
1500	36	700	14
1600	50	800	14
1700	33	900	14
1800	30	1000	14
1900	33	1100	19
2000	57	1200	26
2100	60	1300	46
2200	47	1400	63
2300	30	1500	75
2400	26	1600	69
100	32	1700	65
200	21	1800	62
300	20	1900	60
400	20	2000	59
500	20	2100	50
600	19	2200	42
700	18	2300	35
800	18	2400	30
900	18	100	24
1000	21	200	22
1100	39	300	20
1200	60	400	18
1300	84	500	17
1400	96	600	15
1500	86	700	15
1600	76	800	14
1700	67	900	14
1800	60	1000	14
1900	52	1100	14
2000	43		

Table 230.--Runoff data, April 3-4, 1981, for station  
06713500 Cherry Creek at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
530	8.2	2400	21
600	8.2	30	21
630	8.2	100	20
700	8.2	130	20
730	17	200	20
800	43	230	20
830	63	300	20
900	73	330	19
930	89	400	18
1000	91	430	18
1030	89	500	17
1100	63	530	17
1130	65	600	17
1200	65	630	16
1230	63	700	16
1300	58	730	15
1330	53	800	15
1400	60	830	15
1430	63	900	14
1500	65	930	14
1530	62	1000	14
1600	60	1030	14
1630	53	1100	14
1700	50	1130	14
1730	43	1200	13
1800	40	1230	13
1830	36	1300	12
1900	33	1330	12
1930	31	1400	12
2000	30	1430	12
2030	27	1500	12
2100	26	1530	12
2130	26	1600	12
2200	25	1630	12
2230	25	1700	12
2300	24	1730	12
2330	22	1800	12

Table 231.--Runoff data, May 3-4, 1981, for station  
06713500 Cherry Creek at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
30	8.2	1900	115
100	8.2	1930	105
130	8.2	2000	89
200	8.2	2030	75
230	8.2	2100	62
300	9.6	2130	57
330	31	2200	153
400	35	2230	293
430	23	2300	335
500	46	2330	298
530	42	2400	233
600	36	30	165
630	32	100	120
700	27	130	107
730	27	200	89
800	26	230	78
830	23	300	76
900	23	330	76
930	21	400	76
1000	20	430	73
1030	18	500	69
1100	19	530	63
1130	21	600	60
1200	21	630	57
1230	20	700	53
1300	18	730	51
1330	16	800	51
1400	20	830	51
1430	345	900	51
1500	66	930	51
1530	73	1000	51
1600	76	1030	53
1630	107	1100	51
1700	110	1130	50
1730	117	1200	50
1800	105	1230	49
1830	115		

Table 232.--Runoff data, May 12-13, 1981, for station  
06713500 Cherry Creek at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
600	24	300	78
630	24	330	78
700	24	400	75
730	24	430	69
800	24	500	63
830	24	530	62
900	24	600	58
930	26	630	55
1000	26	700	50
1030	26	730	44
1100	26	800	42
1130	24	830	39
1200	23	900	38
1230	22	930	38
1300	21	1000	38
1330	21	1030	38
1400	21	1100	35
1430	22	1130	35
1500	21	1200	35
1530	21	1230	38
1600	20	1300	38
1630	20	1330	36
1700	20	1400	36
1730	20	1430	36
1800	20	1500	36
1830	20	1530	36
1900	20	1600	39
1930	21	1630	38
2000	21	1700	35
2030	24	1730	33
2100	53	1800	31
2130	100	1830	31
2200	156	1900	30
2230	123	1930	28
2300	130	2000	26
2330	139	2030	24
2400	148	2100	24
30	123	2130	24
100	107	2200	23
130	89	2230	23
200	82	2300	22
230	78	2330	22

Table 233.--Runoff data, May 16-18, 1981, for station  
06713500 Cherry Creek at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
600	19	300	12
630	19	330	12
700	19	400	12
730	19	430	12
800	19	500	12
830	19	530	18
900	20	600	23
930	20	630	43
1000	20	700	82
1030	22	730	128
1100	39	800	115
1130	38	830	100
1200	65	900	117
1230	203	930	123
1300	159	1000	120
1330	123	1030	107
1400	55	1100	100
1430	80	1130	110
1500	69	1200	112
1530	60	1230	110
1600	46	1300	105
1630	39	1330	100
1700	35	1400	96
1730	30	1430	128
1800	26	1500	275
1830	22	1530	222
1900	20	1600	186
1930	17	1630	162
2000	16	1700	214
2030	15	1730	250
2100	14	1800	258
2130	14	1830	258
2200	13	1900	275
2230	12	1930	262
2300	12	2000	254
2330	12	2030	246
2400	12	2100	241
30	12	2130	233
100	12	2200	211
130	12	2230	203
200	12	2300	196
230	12	2330	182

Table 233.--Runoff data, May 16-18, 1981, for station  
06713500 Cherry Creek at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
2400	182	1230	42
30	182	1300	39
100	165	1330	35
130	159	1400	31
200	150	1430	28
230	145	1500	27
300	136	1530	25
330	128	1600	23
400	117	1630	24
430	112	1700	20
500	105	1730	20
530	100	1800	20
600	93	1830	20
630	82	1900	20
700	78	1930	19
730	73	2000	18
800	67	2030	18
830	63	2100	17
900	62	2130	17
930	58	2200	17
1000	57	2230	16
1030	53	2300	16
1100	50	2330	15
1130	46	2400	15
1200	43		

Table 234.--Runoff data, May 28-30, 1981, for station  
06713500 Cherry Creek at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1200	27	2200	62
1215	26	2215	71
1230	26	2230	71
1245	25	2245	75
1300	25	2300	82
1315	24	2315	93
1330	23	2330	142
1345	22	2345	120
1400	25	2400	115
1415	75	15	89
1430	133	30	78
1445	189	45	75
1500	162	100	75
1515	125	115	75
1530	128	130	73
1545	80	145	84
1600	71	200	105
1615	63	215	112
1630	65	230	113
1645	102	245	165
1700	125	300	712
1715	133	315	733
1730	93	330	179
1745	162	345	153
1800	182	400	189
1815	186	415	375
1830	189	430	390
1845	179	445	395
1900	153	500	395
1915	142	515	390
1930	125	530	350
1945	120	545	325
2000	110	600	325
2015	98	615	335
2030	86	630	325
2045	78	645	316
2100	73	700	302
2115	62	715	280
2130	57	730	258
2145	55	745	246

Table 234.--Runoff data, May 28-30, 1981, for station  
06713500 Cherry Creek at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
800	229	1800	43
815	214	1815	43
830	203	1830	43
845	186	1845	46
900	176	1900	50
915	156	1915	57
930	148	1930	60
945	133	1945	62
1000	123	2000	62
1015	110	2015	58
1030	107	2030	58
1045	110	2045	57
1100	112	2100	55
1115	117	2115	57
1130	110	2130	58
1145	107	2145	58
1200	102	2200	58
1215	909	2215	57
1230	84	2230	55
1245	78	2245	51
1300	78	2300	50
1315	76	2315	47
1330	78	2330	46
1345	82	2345	43
1400	84	2400	40
1415	84	15	39
1430	80	30	39
1445	76	45	38
1500	73	100	38
1515	67	115	38
1530	63	130	36
1545	58	145	36
1600	57	200	35
1615	53	215	35
1630	51	230	35
1645	50	245	34
1700	46	300	33
1715	44	315	32
1730	43	330	32
1745	43	345	32



Table 234.--Runoff data, May 28-30,1981, for station  
06713500 Cherry Creek at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
400	32	800	22
415	30	815	21
430	28	830	20
445	27	845	20
500	27	900	20
515	27	915	20
530	26	930	20
545	26	945	20
600	25	1000	20
615	25	1015	20
630	24	1030	20
645	24	1045	20
700	23	1100	19
715	22	1115	19
730	22	1130	19
745	22	1145	19

Table 234.--Runoff data, May 28-30, 1981, for station  
06713500 Cherry Creek at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1200	27	2230	71
1215	26	2245	75
1230	26	2300	82
1245	25	2315	93
1300	25	2330	142
1315	24	2345	120
1330	23	2400	115
1345	22	15	89
1400	25	30	78
1415	75	45	75
1430	133	100	75
1445	189	115	75
1500	162	130	73
1515	125	145	84
1530	128	200	105
1545	80	215	112
1600	71	230	113
1615	63	245	165
1630	65	300	712
1645	102	315	733
1700	125	330	179
1715	133	345	153
1730	93	400	189
1745	162	415	375
1800	182	430	390
1815	186	445	395
1830	189	500	395
1845	179	515	390
1900	153	530	350
1915	142	545	325
1930	125	600	325
1945	120	615	335
2000	110	630	325
2015	98	645	316
2030	86	700	302
2045	78	715	280
2100	73	730	258
2115	62	745	246
2130	57	800	229
2145	55	815	214
2200	62	830	203
2215	71	845	186

Table 234.--Runoff data, May 28-30, 1981, for station  
06713500 Cherry Creek at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
900	176	1715	44
915	156	1730	43
930	148	1745	43
945	133	1800	43
1000	123	1815	43
1015	110	1830	43
1030	107	1845	46
1045	110	1900	50
1100	112	1915	57
1115	117	1930	60
1130	110	1945	62
1145	107	2000	62
1200	102	2015	58
1215	91	2030	58
1230	84	2045	57
1245	78	2100	55
1300	78	2115	57
1315	76	2130	58
1330	78	2145	58
1345	82	2200	58
1400	84	2215	57
1415	84	2230	55
1430	80	2245	51
1445	76	2300	50
1500	73	2315	47
1515	67	2330	46
1530	63	2345	43
1545	58	2400	40
1600	57	15	39
1615	53	30	39
1630	51	45	38
1645	50	100	38
1700	46	115	38

Table 235.--Runoff data, July 26-27, 1981, for station  
06713500 Cherry Creek at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1730	11	200	86
1745	11	215	82
1800	11	230	78
1815	11	245	76
1830	11	300	73
1845	11	315	71
1900	11	330	69
1915	10	345	65
1930	28	400	62
1945	275	415	60
2000	350	430	57
2015	298	445	55
2030	222	500	53
2045	275	515	51
2100	288	530	49
2115	275	545	47
2130	214	600	43
2145	203	615	42
2200	186	630	39
2215	148	645	35
2230	125	700	34
2245	117	715	33
2300	102	730	32
2315	96	745	32
2330	110	800	30
2345	139	815	30
2400	150	830	30
15	148	845	28
30	133	900	28
45	117	915	27
100	105	930	27
115	93	945	27
130	89	1000	26
145	89	1015	25

Table 235.--Runoff data, July 26-27, 1981, for station  
06713500 Cherry Creek at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1030	24	1415	17
1045	23	1430	17
1100	22	1445	16
1115	21	1500	16
1130	20	1515	16
1145	20	1530	16
1200	20	1545	16
1215	20	1600	15
1230	20	1615	15
1245	19	1630	14
1300	19	1645	14
1315	18	1700	14
1330	18	1715	14
1345	17	1730	14

Table 236.--Runoff data, July 11-12, 1980, for station  
06714000 South Platte River at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1800	918	145	1160
1900	918	200	1150
2000	937	215	1120
2015	966	230	1100
2030	994	245	1090
2045	1030	300	1080
2100	1080	315	1060
2115	1110	330	1050
2130	1150	345	1040
2145	1150	400	1020
2200	1160	500	1020
2215	1170	600	1010
2230	1180	700	1000
2245	1190	800	984
2300	1200	900	975
2315	1200	1000	975
2330	1210	1100	975
2345	1210	1200	975
2400	1210	1300	975
15	1200	1400	966
30	1200	1500	946
45	1190	1600	928
100	1190	1700	908
115	1180	1800	890

Table 237.--Runoff data, August 14-15, 1980, for station  
06714000 South Platte River at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1430	334	400	515
1445	354	430	529
1530	350	500	515
1545	327	530	501
1600	316	700	410
1615	438	745	410
1630	826	800	405
1650	1570	845	529
1700	1650	900	529
1730	1590	930	536
1745	1930	1000	515
1800	2660	1015	494
1830	2660	1030	487
1930	1720	1130	501
2030	1170	1215	468
2100	1100	1230	456
2115	1110	1245	456
2230	908	1300	390
2300	975	1315	400
2330	946	1330	390
2345	880	1400	370
30	756	1430	358
45	722	1530	330

Table 238.--Runoff data, September 8-9, 1980, for station  
06714000 South Platte River at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1815	128	600	618
1845	139	615	580
1915	146	630	550
1945	141	645	580
2015	130	700	595
2045	135	715	588
2100	141	730	580
2115	141	745	595
2130	143	800	595
2145	143	815	588
2200	146	830	580
2215	146	845	580
2230	151	900	536
2245	170	915	529
2300	193	930	522
2315	208	945	522
2330	224	1000	522
2345	242	1015	522
2400	260	1030	515
15	265	1045	515
30	282	1100	515
45	303	1115	515
100	323	1130	522
115	342	1145	522
130	390	1200	536
145	410	1215	515
200	438	1230	494
215	462	1245	468
230	474	1300	410
245	522	1315	400
300	536	1330	395
315	543	1345	390
330	558	1445	362
345	572	1545	346
400	588	1645	320
415	580	1745	323
430	580	1845	327
445	665	1945	323
500	782	2045	313
515	756	2100	293
530	714	2115	290



Table 239.--Runoff data, March 3-6, 1981, for station  
06714000 South Platte River at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1145	79	2400	255
1200	81	100	245
1300	98	200	232
1400	126	300	203
1500	133	400	190
1545	146	500	185
1600	155	600	168
1700	165	700	160
1800	153	800	153
1830	146	900	146
1900	146	1000	143
2000	168	1100	148
2100	188	1200	160
2200	200	1300	195
2300	185	1400	255
2400	175	1500	320
100	168	1600	380
200	163	1700	390
300	158	1730	385
400	146	1800	370
500	139	1900	342
600	133	2000	327
700	128	2100	306
800	124	2200	293
900	120	2300	279
1000	118	2400	260
1100	122	100	242
1200	148	200	226
1300	221	300	208
1400	346	400	188
1500	462	500	185
1600	522	600	182
1700	550	700	165
1800	522	800	158
1900	480	900	155
2000	410	1000	146
2100	346	1045	128
2200	293	1100	128
2300	279	1200	128

Table 240.--Runoff data, April 3-4, 1981, for station  
06714000 South Platte River at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
600	79	300	208
630	77	330	199
700	76	400	195
730	70	430	189
800	76	500	184
830	123	530	178
900	168	600	174
930	272	630	170
1000	369	700	166
1030	410	730	155
1100	418	800	153
1130	434	830	149
1200	438	900	145
1230	442	930	145
1300	426	1000	138
1330	414	1030	138
1400	400	1100	138
1430	396	1130	140
1500	392	1200	140
1530	382	1230	134
1600	375	1300	136
1630	365	1330	136
1700	359	1400	138
1730	353	1430	138
1800	349	1500	138
1830	346	1530	136
1900	337	1600	136
1930	328	1630	136
2000	317	1700	138
2030	303	1730	134
2100	292	1800	134
2130	280	1830	134
2200	274	1900	132
2230	264	1930	120
2300	257	2000	120
2330	250	2030	120
2400	241	2100	120
30	232	2130	118
100	228	2200	116
130	221	2230	111
200	219	2300	110
230	215	2330	111

Table 241. --Runoff data, May 3-5, 1981, for station  
06714000 South Platte River at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1	106	2100	414
30	108	2130	396
100	108	2200	556
130	108	2230	805
200	110	2300	885
230	113	2330	738
300	153	2400	636
330	195	30	545
400	178	100	500
430	215	130	459
500	264	200	422
530	280	230	396
600	303	300	375
630	303	330	353
700	317	400	331
730	314	430	314
800	320	500	295
830	343	530	277
900	328	600	262
930	295	630	248
1000	267	700	237
1030	253	730	228
1100	244	800	221
1130	237	830	217
1200	226	900	210
1230	217	930	208
1300	210	1000	206
1330	213	1030	204
1400	434	1100	202
1430	535	1130	202
1500	589	1200	202
1530	702	1230	204
1600	829	1300	206
1630	752	1330	208
1700	674	1400	199
1730	618	1430	187
1800	584	1500	195
1830	550	1530	191
1900	520	1600	184
1930	486	1630	178
2000	464	1700	174
2030	438	1730	168

Table 241.--Runoff data, May 3-5, 1981, for station  
06714000 South Platte River at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1800	164	400	144
1830	161	430	142
1900	159	500	140
1930	157	530	138
2000	157	600	136
2030	155	630	136
2100	153	700	136
2130	153	730	136
2200	151	800	138
2230	151	830	140
2300	149	900	142
2330	147	930	142
2400	147	1000	142
30	147	1030	142
100	147	1100	142
130	147	1130	142
200	147	1200	144
230	145	1230	145
300	145	1300	151
330	145		

Table 242.--Runoff data, May 12-13, 1981, for station  
06714000 South Platte River at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1000	219	600	400
1100	178	700	369
1200	197	800	353
1300	202	900	323
1400	202	1000	317
1500	191	1100	311
1600	187	1200	292
1700	184	1300	298
1800	197	1400	300
1900	184	1500	284
2000	189	1600	267
2100	182	1700	272
2200	317	1800	267
2300	477	1900	237
2400	567	2000	217
100	695	2100	202
200	636	2200	174
300	572	2300	174
400	505	2400	170
500	430		

Table 243.--Runoff data, May 16-19, 1981, for station  
06714000 South Platte River at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
530	120	130	189
600	121	200	178
630	125	230	166
700	127	300	164
730	129	330	168
800	129	400	168
830	130	430	170
900	134	500	174
930	147	530	191
1000	147	600	204
1030	151	630	253
1100	189	700	337
1130	206	730	446
1200	264	800	510
1230	414	830	525
1300	396	900	584
1330	442	930	688
1400	446	1000	716
1430	426	1030	688
1500	396	1100	667
1530	378	1130	618
1600	382	1200	550
1630	389	1230	530
1700	386	1300	500
1730	372	1330	505
1800	349	1400	510
1830	337	1430	612
1900	326	1500	813
1930	314	1530	877
2000	298	1600	861
2030	284	1630	930
2100	257	1700	1060
2130	241	1730	1170
2200	239	1800	1200
2230	232	1830	1210
2300	204	1900	1230
2330	195	1930	1210
2400	193	2000	1160
30	193	2030	1110
100	191	2100	1050

Table 243.--Runoff data, May 16-19, 1981, for station  
06714000 South Platte River at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
2130	994	1730	311
2200	921	1800	326
2230	869	1830	331
2300	853	1900	337
2330	821	1930	340
2400	805	2000	343
30	782	2030	343
100	760	2100	343
130	738	2130	340
200	688	2200	340
230	674	2230	337
300	630	2300	337
330	606	2330	334
400	556	2400	334
430	535	30	331
500	505	100	331
530	495	130	328
600	459	200	328
630	446	230	326
700	426	300	326
730	410	330	323
800	396	400	320
830	389	430	314
900	359	500	311
930	359	530	309
1000	356	600	306
1030	349	630	300
1100	343	700	300
1130	340	730	298
1200	337	800	298
1230	323	830	298
1300	320	900	298
1330	320	930	298
1400	317	1000	298
1430	314	1030	300
1500	311	1100	300
1530	303	1130	306
1600	295	1200	306
1630	282	1230	320
1700	295	1300	309

Table 243.--Runoff data, May 16-19, 1981, for station  
06714000 South Platte River at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1330	311	1900	292
1400	314	1930	292
1430	314	2000	292
1500	311	2030	290
1530	311	2100	287
1600	309	2130	284
1630	306	2200	284
1700	306	2230	284
1730	303	2300	284
1800	287	2330	282
1830	290		



Table 244.--Runoff data, May 27-29, 1981, for station  
06714000 South Platte River at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1930	110	1630	1800
2000	110	1700	1470
2030	111	1730	984
2100	111	1800	768
2130	113	1830	618
2200	140	1900	515
2230	337	1930	438
2300	346	2000	398
2330	346	2030	365
2400	414	2100	326
30	442	2130	262
100	406	2200	287
130	378	2230	280
200	346	2300	326
230	326	2330	450
300	375	2400	472
330	438	30	442
400	414	100	430
430	396	130	430
500	386	200	418
530	369	230	454
600	337	300	642
630	306	330	821
700	298	400	1000
730	290	430	1500
800	290	500	1720
830	292	530	1750
900	277	600	1610
930	264	630	1370
1000	262	700	1170
1030	257	730	984
1100	257	800	869
1130	257	830	782
1200	255	900	723
1230	253	930	688
1300	246	1000	745
1330	239	1030	798
1400	226	1100	674
1430	300	1130	618
1500	550	1200	589
1530	630	1230	572
1600	1100	1300	550

Table 244.--Runoff data, May 27-29, 1981, for station  
06714000 South Platte River at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1330	550	1900	369
1400	556	1930	369
1430	530	2000	365
1500	500	2030	356
1530	477	2100	343
1600	450	2130	340
1630	430	2200	337
1700	414	2230	328
1730	396	2300	328
1800	386	2330	331
1830	372	2400	323

Table 245.--Runoff data, June 3-4, 1981, for station  
06714000 South Platte River at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1430	306	30	442
1500	426	100	422
1530	1110	130	403
1600	1090	200	403
1630	1040	230	396
1700	1020	300	389
1730	1140	330	372
1800	1080	400	369
1830	1030	430	369
1900	798	500	362
1930	667	530	359
2000	584	600	337
2030	600	630	334
2100	642	700	331
2130	648	730	328
2200	624	800	326
2230	567	830	323
2300	515	900	309
2330	490	930	309
2400	459		

Table 246.--Runoff data, July 26-27, 1981, for station  
06714000 South Platte River at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1730	210	900	356
1800	210	930	353
1830	210	1000	353
1900	210	1030	349
1930	210	1100	349
2000	331	1130	346
2030	1000	1200	343
2100	939	1230	328
2130	1160	1300	328
2200	1220	1330	328
2230	1200	1400	326
2300	1070	1430	326
2330	903	1500	340
2400	930	1530	328
30	921	1600	303
100	837	1630	300
130	790	1700	292
200	768	1730	290
230	709	1800	284
300	654	1830	272
330	589	1900	262
400	550	1930	264
430	525	2000	264
500	472	2030	264
530	442	2100	262
600	434	2130	260
630	414	2200	255
700	396	2230	241
730	392	2300	235
800	382	2330	229
830	362	2400	248

Table 247.--Runoff data, July 11-12, 1980, for station  
06714130 South Platte River at 50th Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1900	950	215	1200
2000	980	230	1180
2015	998	245	1170
2030	1040	300	1140
2045	1080	315	1120
2100	1250	330	1110
2115	1260	345	1090
2130	1230	400	1070
2145	1230	415	1060
2200	1220	430	1060
2215	1220	445	1050
2230	1230	500	1050
2245	1230	600	1040
2300	1250	700	1030
2315	1260	800	1030
2330	1260	900	1020
2345	1260	1000	1010
2400	1270	1100	1010
15	1260	1200	1010
30	1250	1300	1010
45	1230	1400	1010
100	1230	1500	992
115	1230	1600	980
130	1220	1700	968
145	1210	1800	950
200	1200		

Table 248.--Runoff data, August 14-15, 1980, for station  
06714130 South Platte River at 50th Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1400	386	300	676
1445	386	400	614
1515	378	430	600
1545	730	500	618
1600	765	530	609
1630	564	600	568
1645	668	700	501
1700	1130	730	474
1715	1460	800	470
1730	1630	900	609
1745	1700	915	632
1800	1700	930	654
1830	2340	945	654
1845	2640	1000	645
1900	2620	1015	632
1915	2610	1030	609
1930	2350	1100	550
2000	1930	1115	546
2100	1380	1130	546
2130	1230	1200	550
2200	1190	1300	506
2300	1050	1315	496
2400	1050	1345	461
100	860	1400	456
130	805	1500	418
200	800	1600	398

Table 249.--Runoff data, September 8-9, 1980, for station  
06714130 South Platte River at 50th Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
2130	154	745	676
2145	154	800	676
2200	156	815	676
2215	167	830	676
2230	181	845	672
2245	201	900	663
2300	233	915	658
2315	264	930	650
2330	305	945	640
2345	344	1000	640
2400	367	1015	640
15	371	1030	640
30	371	1045	632
45	398	1100	622
100	426	1115	614
115	465	1130	604
130	483	1145	596
145	514	1200	591
200	537	1215	586
215	564	1230	578
230	600	1245	564
245	614	1300	550
300	627	1315	528
315	632	1330	501
330	636	1345	474
345	650	1400	452
400	654	1415	444
415	654	1430	435
430	663	1445	431
445	668	1500	418
500	686	1515	414
515	760	1530	410
530	860	1545	410
545	908	1600	402
600	908	1615	398
615	875	1630	386
630	825	1645	378
645	720	1700	371
700	690	1715	367
715	686	1730	363
730	686		

Table 250.--Runoff data, March 3-6, 1981, for station  
06714130 South Platte River at 50th Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1130	73	830	159
1200	73	900	156
1230	86	930	156
1300	104	1000	156
1330	120	1030	156
1400	139	1100	159
1430	159	1130	176
1500	178	1200	221
1530	204	1230	271
1600	221	1300	348
1630	221	1330	431
1700	230	1400	532
1730	230	1430	654
1800	230	1500	735
1830	230	1530	750
1900	227	1600	765
1930	239	1630	775
2000	248	1700	785
2030	264	1730	790
2100	288	1800	775
2130	294	1830	760
2200	294	1900	725
2230	294	1930	690
2300	294	2000	663
2330	284	2030	622
2400	271	2100	573
30	255	2130	542
100	236	2200	496
130	233	2230	465
200	227	2300	439
230	221	2330	414
300	218	2400	398
330	215	30	374
400	208	100	363
430	201	130	355
500	192	200	344
530	187	230	337
600	178	300	326
630	176	330	308
700	170	400	298
730	164	430	291
800	162	500	284



Table 250.--Runoff data, March 3-6, 1981, for station  
06714130 South Platte River at 50th Avenue, at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
530	277	2100	465
600	264	2130	448
630	252	2200	431
700	239	2230	418
730	236	2300	402
800	230	2330	386
830	224	2400	378
900	221	30	363
930	215	100	352
1000	212	130	337
1030	206	200	326
1100	212	230	319
1130	230	300	308
1200	274	330	301
1230	305	400	291
1300	374	430	277
1330	422	500	271
1400	452	530	268
1430	461	600	261
1500	510	630	255
1530	524	700	264
1600	555	730	233
1630	578	800	221
1700	578	830	218
1730	591	900	218
1800	573	930	215
1830	564	1000	212
1900	542	1030	206
1930	514	1100	204
2000	492	1130	184
2030	478		

Table 251.--Runoff data, April 3-4, 1981, for station  
06714130 South Platte River at 50th Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
500	84	2330	277
530	84	2400	268
600	84	30	261
630	84	100	252
700	84	130	245
730	84	200	239
800	274	230	236
830	298	300	230
900	288	330	227
930	291	400	218
1000	308	430	209
1030	382	500	206
1100	461	530	204
1130	506	600	198
1200	514	630	195
1230	573	700	190
1300	573	730	187
1330	560	800	181
1400	514	830	176
1430	510	900	170
1500	510	930	167
1530	483	1000	164
1600	461	1030	162
1630	435	1100	156
1700	422	1130	154
1730	410	1200	154
1800	394	1230	154
1830	386	1300	154
1900	384	1330	151
1930	374	1400	151
2000	363	1430	151
2030	348	1500	154
2100	330	1530	154
2130	319	1600	156
2200	305	1630	154
2230	294	1700	151
2300	288		

Table 252.--Runoff data, May 3-5, 1981, for station  
06714130 South Platte River at 50th Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
100	139	400	465
200	139	500	414
300	141	600	374
400	215	700	315
500	274	800	277
600	308	900	252
700	326	1000	233
800	344	1100	224
900	359	1200	218
1000	374	1300	230
1100	359	1400	233
1200	305	1500	236
1300	284	1600	221
1400	268	1700	221
1500	765	1800	215
1600	640	1900	206
1700	645	2000	201
1800	795	2100	195
1900	695	2200	190
2000	632	2300	181
2100	573	2400	178
2200	582	100	176
2300	695	200	176
2400	908	300	173
100	875	400	173
200	676	500	167
300	555	600	162

Table 253.--Runoff data, May 12-13, 1981, for station  
06714130 South Platte River at 50th Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1800	252	930	402
1830	255	1000	390
1900	258	1030	386
1930	258	1100	378
2000	245	1130	374
2030	224	1200	367
2100	204	1230	359
2130	224	1300	359
2200	418	1330	382
2230	770	1400	390
2300	745	1430	402
2330	720	1500	390
2400	760	1530	386
30	825	1600	355
100	944	1630	344
130	908	1700	337
200	850	1730	348
230	775	1800	348
300	745	1830	344
330	715	1900	340
400	700	1930	337
430	636	2000	305
500	591	2030	291
530	542	2100	277
600	510	2130	274
630	496	2200	271
700	465	2230	255
730	448	2300	236
800	435	2330	233
830	431	2400	233
900	414		

Table 254.--Runoff data, May 16-18, 1981, for station  
06714130 South Platte River at 50th Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
600	141	1300	663
700	141	1400	591
800	144	1500	695
900	146	1600	1150
1000	148	1700	1180
1100	181	1800	1390
1200	414	1900	1470
1300	750	2000	1430
1400	636	2100	1330
1500	650	2200	1200
1600	532	2300	1110
1700	470	2400	1020
1800	461	100	980
1900	414	200	914
2000	382	300	830
2100	348	400	750
2200	315	500	668
2300	277	600	604
2400	261	700	537
100	233	800	483
200	224	900	439
300	215	1000	398
400	105	1100	378
500	192	1200	367
600	312	1300	367
700	555	1400	344
800	632	1500	340
900	730	1600	333
1000	730	1700	315
1100	790	1800	301
1200	775		

Table 255.--Runoff data, May 28-30, 1981, for station  
06714130 South Platte River at 50th Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1100	274	800	1150
1130	271	830	980
1200	271	900	914
1230	271	930	845
1300	268	1000	805
1330	264	1030	820
1400	258	1100	860
1430	248	1130	860
1500	422	1200	820
1530	555	1230	760
1600	672	1300	700
1630	760	1330	730
1700	1420	1400	654
1730	1350	1430	650
1800	1120	1500	640
1830	950	1530	600
1900	780	1600	568
1930	668	1630	546
2000	578	1700	510
2030	474	1730	492
2100	412	1800	478
2130	382	1830	456
2200	348	1900	426
2230	359	1930	418
2300	371	2000	414
2330	452	2030	410
2400	622	2100	402
30	672	2130	394
100	627	2200	374
130	537	2230	371
200	501	2300	376
230	524	2330	359
300	860	2400	359
330	1110	30	359
400	1240	100	348
430	1420	130	337
500	1610	200	359
530	1680	230	371
600	1700	300	367
630	1650	330	363
700	1470	400	355
730	1240	430	352

Table 255.--Runoff data, May 28-30, 1981, for station  
06714130 South Platte River at 50th Avenue, at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
500	352	1130	496
530	367	1200	506
600	426	1230	506
630	470	1300	506
700	478	1330	506
730	483	1400	501
800	483	1430	474
830	483	1500	461
900	492	1530	439
930	496	1600	426
1000	496	1630	398
1030	483	1700	394
1100	483		

Table 256.--Runoff data, July 26-27, 1981, for station  
06714130 South Platte River at 50th Avenue, at Denver

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1730	201	400	755
1745	201	415	705
1800	201	430	686
1815	201	445	672
1830	201	500	640
1845	204	515	614
1900	204	530	596
1915	204	545	578
1930	204	600	560
1945	209	615	537
2000	277	630	528
2015	426	645	519
2030	850	700	506
2045	1230	715	496
2100	1630	730	483
2115	1630	745	470
2130	1730	800	456
2145	1720	815	452
2200	1680	830	452
2215	1630	845	444
2230	1530	900	435
2245	1470	915	426
2300	1440	930	418
2315	1360	945	414
2330	1310	1000	410
2345	1210	1015	406
2400	1180	1030	398
15	1180	1045	394
30	1210	1100	394
45	1240	1115	394
100	1230	1130	390
115	1170	1145	390
130	1100	1200	386
145	1020	1215	386
200	950	1230	386
215	896	1245	386
230	880	1300	382
245	875	1315	382
300	850	1330	374
315	820	1345	367
330	795	1400	367
345	780	1415	367



Table 256.--Runoff data, July 26-27, 1981, for station  
06714130 South Platte River at 50th Avenue, at Denver--Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1430	367	1915	315
1445	367	1930	308
1500	363	1945	308
1515	363	2000	308
1530	363	2015	308
1545	367	2030	305
1600	371	2045	305
1615	367	2100	305
1630	352	2115	305
1645	348	2130	305
1700	344	2145	305
1715	340	2200	301
1730	337	2215	301
1745	333	2230	298
1800	333	2245	298
1815	330	2300	294
1830	326	2315	284
1845	326	2345	274
1900	319		

## RAINFALL DATA FOR THE SOUTH PLATTE RIVER STUDY

Rainfall data are presented for the following stations:

Station number and name		Table
06710200	Big Dry Creek tributary at Littleton-----	257-261
06711575	Harvard Gulch at Harvard Park-----	262-265
06711580	Harvard Gulch tributary at Englewood-----	266-271
06711600	Sanderson Gulch tributary at Lakewood-----	272-276
06714210	South Platte River tributary at Denver-----	277-280
06711642	McIntyre Gulch No. 1 at Denver Federal Center, at Lakewood-----	281-284
06711645	McIntyre Gulch No. 2 at Denver Federal Center, at Lakewood-----	285-291
06719514	Agricultural Ditch inflow to Denver Federal Center-----	292-297
06719518	Denver Federal Center field at Lakewood-----	298
393500104560901	Big Dry at Littleton-----	299-304
393628105063001	Bowles rain gage near Littleton-----	305-310
393947104555101	Harvard Gulch at Bradley School, at Denver-----	311-316
394028104560201	Harvard Gulch at Bethesda Hospital, at Denver-----	317-322
394204105085401	851 South Arbutus at Lakewood-----	323
394221105072901	11310 West Glennon Drive at Lakewood-----	324-329
394251105084901	Zinnia Way near Warren Occupation Technical Center, at Lakewood-----	330-336

Table 257.--Rainfall data, May 3, 1981, for station  
06710200 Big Dry Creek tributary at Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-03	0225	0.01	5-03	0330	0.02
5-03	0250	0.01	5-03	0335	0.02
5-03	0255	0.02	5-03	0340	0.02
5-03	0300	0.01	5-03	0345	0.02
5-03	0320	0.01	5-03	0350	0.01
5-03	0325	0.01	5-03	0355	0.01
			5-03	0400	0.01
STORM TOTAL = 0.53					
			5-03	0800	0.01
			5-03	1235	0.04
			5-03	1240	0.04
			5-03	1245	0.14
			5-03	1250	0.11
			5-03	1300	0.01

Table 258.--Rainfall data, May 12-13, 1981, for station  
06710200 Big Dry Creek tributary at Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-12	2005	0.01	5-12	2115	0.01
5-12	2010	0.01	5-12	2130	0.01
5-12	2025	0.01	5-12	2140	0.01
5-12	2030	0.01	5-12	2150	0.01
5-12	2040	0.01	5-12	2155	0.01
5-12	2045	0.02	5-12	2205	0.01
5-12	2050	0.02	5-12	2215	0.01
5-12	2055	0.01	5-12	2230	0.01
5-12	2100	0.01	5-12	2240	0.01
5-12	2105	0.01	5-12	2250	0.01
STORM TOTAL = 0.30					
			5-12	2255	0.01
			5-12	2300	0.01
			5-12	2305	0.01
			5-12	2315	0.01
			5-12	2335	0.01
			5-12	2350	0.01
			5-13	0005	0.01
			5-13	0030	0.01

Table 259.---Rainfall data, May 17-18, 1981, for station  
06710200 Big Creek tributary at Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL									
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
5-17	0515	0.01	5-17	0935	0.01	5-17	1700	0.01	0.01
5-17	0530	0.01	5-17	0950	0.01	5-17	1705	0.01	0.01
5-17	0535	0.01	5-17	1000	0.01	5-17	1710	0.01	0.01
5-17	0545	0.01	5-17	1045	0.01	5-17	1715	0.01	0.01
5-17	0600	0.02	5-17	1110	0.01	5-17	1725	0.01	0.01
5-17	0605	0.01	5-17	1125	0.01	5-17	1730	0.01	0.01
5-17	0610	0.01	5-17	1155	0.01	5-17	1740	0.01	0.01
5-17	0615	0.02	5-17	1415	0.02	5-17	1745	0.01	0.01
5-17	0620	0.01	5-17	1425	0.01	5-17	1750	0.01	0.01
5-17	0625	0.01	5-17	1430	0.01	5-17	1800	0.01	0.01
5-17	0630	0.01	5-17	1435	0.02	5-17	1810	0.01	0.01
5-17	0635	0.01	5-17	1440	0.02	5-17	1820	0.01	0.01
5-17	0640	0.01	5-17	1445	0.01	5-17	1835	0.01	0.01
5-17	0645	0.01	5-17	1450	0.02	5-17	1845	0.01	0.01
5-17	0650	0.01	5-17	1455	0.01	5-17	1855	0.01	0.01
5-17	0655	0.02	5-17	1500	0.01	5-17	1910	0.01	0.01
5-17	0700	0.01	5-17	1505	0.01	5-17	1930	0.01	0.01
5-17	0710	0.02	5-17	1510	0.01	5-17	1945	0.01	0.01
5-17	0715	0.01	5-17	1520	0.02	5-17	2020	0.01	0.01
5-17	0720	0.01	5-17	1525	0.01	5-17	2045	0.01	0.01
5-17	0730	0.01	5-17	1530	0.01	5-17	2110	0.01	0.01
5-17	0745	0.01	5-17	1540	0.01	5-17	2140	0.01	0.01
5-17	0805	0.01	5-17	1550	0.01	5-17	2205	0.01	0.01
5-17	0820	0.01	5-17	1555	0.01	5-17	2225	0.01	0.01
5-17	0825	0.01	5-17	1600	0.01	5-17	2240	0.01	0.01
5-17	0830	0.01	5-17	1610	0.01	5-17	2310	0.01	0.01
5-17	0840	0.01	5-17	1615	0.01	5-17	2340	0.01	0.01
5-17	0845	0.01	5-17	1620	0.02				
5-17	0850	0.01	5-17	1625	0.01				
5-17	0855	0.01	5-17	1630	0.01	5-18	0005	0.01	0.01
5-17	0900	0.01	5-17	1635	0.01	5-18	0045	0.01	0.01
5-17	0915	0.01	5-17	1640	0.01	5-18	0120	0.01	0.01
5-17	0925	0.01	5-17	1645	0.01	5-18	0150	0.01	0.01
			5-17	1650	0.01				
			5-17	1655	0.01				

STORM TOTAL = 1.09

Table 260.--Rainfall data, May 28-29, 1981, for station  
06710200 Big Dry Creek tributary at Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-28	0155	0.01	5-29	0145	0.01
5-28	0225	0.01	5-29	0205	0.01
5-28	0230	0.01	5-29	0225	0.01
5-28	0255	0.02	5-29	0240	0.01
5-28	0300	0.03	5-29	0245	0.03
5-28	0305	0.01	5-29	0250	0.04
5-28	0310	0.02	5-29	0255	0.02
5-28	0315	0.02	5-29	0300	0.02
5-28	0320	0.02	5-29	0305	0.01
5-28	0325	0.01	5-29	0310	0.03
5-28	0330	0.01	5-29	0315	0.02
5-28	0335	0.01	5-29	0320	0.03
5-28	0345	0.01	5-29	0325	0.02
5-28	0410	0.01	5-29	0330	0.02
			5-29	0335	0.02
			5-29	0340	0.02
5-29	0120	0.01	5-29	0345	0.03
5-29	0125	0.02	5-29	0350	0.02
5-29	0135	0.01	5-29	0400	0.01
5-29	0140	0.01	5-29	0405	0.01
STORM TOTAL =		0.88			

Table 261.--Rainfall data, July 26, 1981, for station  
06710200 Big Dry Creek tributary at Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
7-26	2000	0.01	7-26	2045	0.01
7-26	2005	0.03	7-26	2050	0.02
7-26	2010	0.08	7-26	2055	0.01
7-26	2015	0.06	7-26	2100	0.01
7-26	2020	0.04	7-26	2110	0.01
7-26	2025	0.02	7-26	2120	0.01
7-26	2030	0.02	7-26	2155	0.01
7-26	2035	0.01	7-26	2215	0.01
7-26	2040	0.01	7-26	2220	0.01
			7-26	2240	0.01
STORM TOTAL =		0.55			

Table 262.--Rainfall data, May 3, 1981, for station  
06711575 Harvard Gulch at Harvard Park, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-03	0135	0.01	5-03	0330	0.02
5-03	0150	0.01	5-03	0335	0.02
5-03	0155	0.01	5-03	0340	0.01
5-03	0200	0.01	5-03	0530	0.01
5-03	0210	0.01	5-03	1225	0.04
5-03	0215	0.01	5-03	1230	0.09
5-03	0220	0.01	5-03	1235	0.16
5-03	0225	0.01	5-03	1240	0.02
5-03	0235	0.01	5-03	1245	0.01
5-03	0315	0.01	5-03	1250	0.01
5-03	0320	0.01	5-03	2000	0.03
5-03	0325	0.02	5-03	2005	0.03

STORM TOTAL = 0.74

Table 263.--Rainfall data, May 17-18, 1981, for station  
06711575 Harvard Gulch at Harvard Park, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL							
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME
5-17	0430	0.01	5-17	0820	0.01	5-17	1615
5-17	0440	0.01	5-17	0825	0.01	5-17	1620
5-17	0445	0.02	5-17	0830	0.01	5-17	1625
5-17	0450	0.01	5-17	0900	0.01	5-17	1630
5-17	0455	0.01	5-17	0910	0.01	5-17	1640
5-17	0500	0.01	5-17	0930	0.01	5-17	1650
5-17	0505	0.01	5-17	0955	0.01	5-17	1655
5-17	0520	0.01	5-17	1045	0.01	5-17	1700
5-17	0530	0.01	5-17	1100	0.01	5-17	1710
5-17	0535	0.01	5-17	1215	0.01	5-17	1720
5-17	0540	0.01	5-17	1400	0.01	5-17	1725
5-17	0545	0.01	5-17	1410	0.02	5-17	1735
5-17	0555	0.01	5-17	1415	0.02	5-17	1745
5-17	0600	0.01	5-17	1420	0.01	5-17	1800
5-17	0610	0.01	5-17	1425	0.02	5-17	1805
5-17	0615	0.01	5-17	1430	0.02	5-17	1815
5-17	0625	0.01	5-17	1435	0.01	5-17	1825
5-17	0630	0.01	5-17	1440	0.02	5-17	1840
5-17	0635	0.02	5-17	1445	0.01	5-17	1900
5-17	0640	0.01	5-17	1450	0.01	5-17	1945
5-17	0645	0.01	5-17	1455	0.01	5-17	2030
5-17	0655	0.01	5-17	1500	0.01	5-17	2050
5-17	0700	0.01	5-17	1505	0.01	5-17	2140
5-17	0705	0.01	5-17	1510	0.01	5-17	2215
5-17	0710	0.01	5-17	1520	0.01	5-17	2240
5-17	0720	0.01	5-17	1530	0.01	5-17	2330
5-17	0740	0.01	5-17	1540	0.01		
5-17	0800	0.01	5-17	1550	0.01		
5-17	0810	0.01	5-17	1605	0.01		
5-17	0815	0.01	5-17	1610	0.01	5-18	0015
						5-18	0140

STORM TOTAL = 0.95

Table 264.--Rainfall data, May 28-29, 1981, for station  
06711575 Harvard Gulch at Harvard Park, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-28	1410	0.09	5-29	0105	0.01
5-28	1415	0.44	5-29	0125	0.01
5-28	1420	0.25	5-29	0130	0.02
5-28	1425	0.04	5-29	0135	0.02
5-28	1430	0.01	5-29	0140	0.03
5-28	1450	0.01	5-29	0145	0.02
5-28	1520	0.01	5-29	0150	0.01
5-28	1550	0.01	5-29	0155	0.03
5-28	2210	0.01	5-29	0200	0.04
5-28	2215	0.02	5-29	0205	0.03
5-28	2220	0.03	5-29	0210	0.03
5-28	2225	0.01	5-29	0215	0.03
5-28	2235	0.01	5-29	0220	0.01
5-28	2240	0.04	5-29	0225	0.01
5-28	2245	0.01	5-29	0235	0.01
			5-29	0240	0.01
			5-29	0245	0.01
			5-29	0250	0.02
			5-29	0255	0.01
			5-29	0305	0.01
			5-29	0310	0.01
			5-29	0315	0.01
			5-29	0320	0.02
			5-29	0325	0.01
			5-29	0330	0.03
			5-29	0335	0.01
			5-29	0340	0.02
			5-29	0345	0.02
			5-29	0350	0.02
			5-29	0355	0.03
			5-29	0400	0.01
			5-29	0405	0.01
			5-29	0410	0.01
			5-29	0415	0.01
			5-29	0425	0.01

STORM TOTAL = 1.59

Table 265.--Rainfall data, July 26, 1981, for station  
06711575 Harvard Gulch at Harvard Park, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
7-26	1940	0.01	7-26	2040	0.02
7-26	1955	0.02	7-26	2045	0.02
7-26	2000	0.01	7-26	2050	0.01
7-26	2005	0.04	7-26	2055	0.01
7-26	2010	0.02	7-26	2100	0.01
7-26	2015	0.03	7-26	2105	0.01
7-26	2020	0.01	7-26	2130	0.01
7-26	2025	0.01	7-26	2140	0.01
7-26	2030	0.01	7-26	2150	0.01
7-26	2035	0.02	7-26	2205	0.01
			7-26	2255	0.01
			7-26	2310	0.01
			7-26	2315	0.02
			7-26	2320	0.02
			7-26	2325	0.02
			7-26	2330	0.01
			7-26	2335	0.01
			7-26	2340	0.01
			7-26	2345	0.01

STORM TOTAL = 0.42



Table 266.--Rainfall data, April 3, 1981, for station  
06711580 Harvard Gulch tributary at Englewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE
4-03	0600	0.01	4-03	0725	0.01	4-03
4-03	0605	0.01	4-03	0730	0.01	1135
4-03	0615	0.01	4-03	0740	0.01	1140
4-03	0625	0.01	4-03	0750	0.01	1145
4-03	0630	0.01	4-03	0815	0.01	1150
4-03	0635	0.01	4-03	0955	0.01	1155
4-03	0640	0.01	4-03	1040	0.01	1205
4-03	0645	0.01	4-03	1045	0.01	1215
4-03	0650	0.02	4-03	1055	0.02	1225
4-03	0655	0.01	4-03	1100	0.01	1235
4-03	0700	0.01	4-03	1110	0.02	1255
4-03	0705	0.01	4-03	1120	0.01	1310
4-03	0710	0.01	4-03	1125	0.01	1330
4-03	0715	0.01	4-03	1130	0.01	1355
STORM TOTAL		0.45			0.01	1420

Table 267.--Rainfall data, May 3, 1981, for station  
06711580 Harvard Gulch tributary at Englewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE
5-03	0205	0.01	5-03	0315	0.01	5-03
5-03	0215	0.01	5-03	0345	0.01	0630
5-03	0225	0.02	5-03	0405	0.02	0820
5-03	0230	0.03	5-03	0410	0.02	1305
5-03	0235	0.03	5-03	0415	0.02	1310
5-03	0240	0.03	5-03	0420	0.01	1315
5-03	0250	0.01	5-03	0425	0.01	1320
5-03	0300	0.01	5-03	0525	0.01	1325
5-03	0310	0.01	5-03	0620	0.01	1330
STORM TOTAL		0.92			0.01	1335

Table 268.--Rainfall data, May 12-13, 1981, for station  
06711580 Harvard Gulch tributary at Englewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-12	2045	0.01	5-12	2200	0.01
5-12	2100	0.01	5-12	2205	0.01
5-12	2105	0.02	5-12	2215	0.01
5-12	2120	0.01	5-12	2225	0.01
5-12	2125	0.01	5-12	2235	0.01
5-12	2135	0.02	5-12	2255	0.01
5-12	2145	0.02	5-12	2300	0.01
5-12	2155	0.02	5-12	2310	0.01
			5-12	2315	0.01
			5-12	2335	0.01

STORM TOTAL = 0.28

Table 269.--Rainfall data, May 17, 1981, for station  
06711580 Harvard Gulch tributary at Englewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-17	0415	0.01	5-17	0835	0.01
5-17	0420	0.01	5-17	0905	0.01
5-17	0425	0.01	5-17	0920	0.01
5-17	0430	0.01	5-17	0930	0.01
5-17	0445	0.01	5-17	0950	0.01
5-17	0450	0.01	5-17	1010	0.01
5-17	0500	0.01	5-17	1055	0.01
5-17	0515	0.01	5-17	1105	0.01
5-17	0530	0.01	5-17	1125	0.01
5-17	0535	0.01	5-17	1210	0.01
5-17	0540	0.01	5-17	1425	0.01
5-17	0545	0.01	5-17	1435	0.01
5-17	0550	0.01	5-17	1440	0.02
5-17	0600	0.01	5-17	1445	0.02
5-17	0605	0.01	5-17	1450	0.02
5-17	0615	0.01	5-17	1455	0.01
5-17	0620	0.01	5-17	1505	0.02
5-17	0625	0.01	5-17	1510	0.02
5-17	0630	0.02	5-17	1515	0.02
5-17	0635	0.01	5-17	1520	0.01
5-17	0640	0.01	5-17	1525	0.01
5-17	0645	0.01	5-17	1530	0.01
5-17	0650	0.01	5-17	1535	0.01
5-17	0655	0.01	5-17	1540	0.01
5-17	0710	0.01	5-17	1545	0.01
5-17	0725	0.01	5-17	1550	0.01
5-17	0750	0.01	5-17	1555	0.01
5-17	0810	0.01	5-17	1600	0.01
5-17	0815	0.01	5-17	1615	0.01
5-17	0820	0.01	5-17	1620	0.01
5-17	0825	0.01	5-17	1625	0.01
5-17	0830	0.01	5-17	1640	0.01

STORM TOTAL = 1.05

RAINFALL, IN INCHES, DURING INDICATED INTERVAL

DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-28	1840	0.02	5-29	1240	0.01	5-30	0055	0.01
5-28	1845	0.01	5-29	1440	0.01	5-30	0120	0.02
5-28	1900	0.04	5-29	2025	0.01	5-30	0125	0.02
5-28	1905	0.06	5-29	2030	0.01	5-30	0130	0.01
5-28	1915	0.01	5-29	2035	0.04	5-30	0135	0.02
5-28	2210	0.02	5-29	2040	0.02	5-30	0145	0.01
5-28	2215	0.02	5-29	2050	0.01	5-30	0150	0.02
5-28	2220	0.01	5-29	2100	0.01	5-30	0155	0.02
5-28	2230	0.01	5-29	2120	0.01	5-30	0200	0.02
			5-29	2355	0.03	5-30	0205	0.02
			5-29	2400	0.08	5-30	0210	0.02
5-29	0005	0.01				5-30	0215	0.01
5-29	0010	0.01				5-30	0220	0.02
5-29	0015	0.03				5-30	0225	0.01
5-29	0020	0.04	5-30	0005	0.05	5-30	0230	0.02
5-29	0025	0.02	5-30	0015	0.04	5-30	0235	0.02
5-29	0030	0.04	5-30	0020	0.01	5-30	0240	0.02
5-29	1155	0.02	5-30	0025	0.01	5-30	0250	0.02
5-29	1200	0.11	5-30	0030	0.03	5-30	0255	0.01
5-29	1205	0.46	5-30	0035	0.05	5-30	0305	0.01
5-29	1210	0.09	5-30	0040	0.04	5-30	0330	0.01
			5-30	0045	0.02			

STORM TOTAL = 1.87

Table 271.--Rainfall data, July 26-27, 1981, for station 06711580 Harvard Gulch tributary at Englewood

## RAINFALL, IN INCHES, DURING INDICATED INTERVAL

DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
7-26	2205	0.01	7-26	2235	0.01	7-26	2325	0.01
7-26	2210	0.02	7-26	2240	0.02	7-26	2345	0.01
7-26	2215	0.06	7-26	2245	0.02	7-26	2355	0.01
7-26	2220	0.06	7-26	2250	0.01			
7-26	2225	0.01	7-26	2255	0.01			
7-26	2230	0.01	7-26	2300	0.02	7-27	0015	0.01
			7-26	2305	0.01			

STORM TOTAL = 0.31

Table 272.--Rainfall data, May 3, 1981, for station  
06711600 Sanderson Gulch tributary at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
5-03	0215	0.01	5-03	0350	0.01	0.01
5-03	0225	0.01	5-03	0400	0.01	0.02
5-03	0230	0.01	5-03	0405	0.01	0.03
5-03	0240	0.01	5-03	0410	0.02	0.01
5-03	0245	0.01	5-03	0415	0.01	0.01
5-03	0250	0.01	5-03	0420	0.02	0.01
5-03	0255	0.01	5-03	0425	0.01	0.03
5-03	0300	0.01	5-03	0435	0.01	0.01
5-03	0315	0.01	5-03	1255	0.01	0.01
5-03	0325	0.01	5-03	1300	0.02	0.01
			5-03	1305	0.03	0.01
			5-03	1310	0.02	0.01

STORM TOTAL = 0.43

Table 273.--Rainfall data, May 12, 1981, for station  
06711600 Sanderson Gulch tributary at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
5-12	2030	0.01	5-12	2125	0.02	0.01
5-12	2035	0.01	5-12	2130	0.01	0.01
5-12	2040	0.02	5-12	2135	0.01	0.01
5-12	2045	0.02	5-12	2140	0.01	0.01
5-12	2050	0.01	5-12	2145	0.01	0.01
5-12	2100	0.01	5-12	2200	0.01	0.02
5-12	2105	0.01	5-12	2215	0.01	0.01
5-12	2110	0.02	5-12	2230	0.02	0.01
5-12	2120	0.01	5-12	2235	0.01	0.01
			5-12	2240	0.01	0.01

STORM TOTAL = 0.32

RAINFALL, IN INCHES, DURING INDICATED INTERVAL							
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME
5-16	1220	0.01	5-17	0625	0.01	5-17	1440
5-16	1230	0.01	5-17	0630	0.01	5-17	1450
5-16	1235	0.01	5-17	0635	0.01	5-17	1500
5-16	1245	0.01	5-17	0645	0.01	5-17	1520
5-16	1255	0.01	5-17	0650	0.01	5-17	1535
5-16	1300	0.02	5-17	0655	0.01	5-17	1545
5-16	1305	0.02	5-17	0705	0.01	5-17	1605
5-16	1310	0.01	5-17	0710	0.01	5-17	1615
5-16	1315	0.01	5-17	0720	0.01	5-17	1620
5-16	1320	0.01	5-17	0730	0.01	5-17	1630
5-16	1330	0.01	5-17	0740	0.01	5-17	1635
5-16	1340	0.01	5-17	0750	0.01	5-17	1640
5-16	1345	0.01	5-17	0755	0.01	5-17	1645
5-16	1355	0.01	5-17	0800	0.01	5-17	1650
5-16	1400	0.01	5-17	0805	0.01	5-17	1655
5-16	1410	0.01	5-17	0810	0.01	5-17	1700
5-16	1415	0.01	5-17	0825	0.01	5-17	1705
			5-17	0835	0.01	5-17	1710
			5-17	0840	0.01	5-17	1715
			5-17	0900	0.01	5-17	1720
5-17	0500	0.01	5-17	0925	0.01	5-17	1730
5-17	0510	0.01	5-17	1000	0.01	5-17	1745
5-17	0515	0.01	5-17	1050	0.01	5-17	1755
5-17	0525	0.01	5-17	1150	0.01	5-17	1800
5-17	0540	0.01	5-17	1245	0.01	5-17	1805
5-17	0545	0.01	5-17	1415	0.01	5-17	1820
5-17	0550	0.01	5-17	1420	0.01	5-17	1845
5-17	0600	0.01	5-17	1425	0.01	5-17	1930
5-17	0610	0.01	5-17	1430	0.02	5-17	2045
5-17	0615	0.01	5-17	1435	0.01		

**STORM TOTAL = 0.93**

Table 275.--Rainfall data, May 27-29, 1981, for station  
06711600 Sanderson Gulch tributary at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-27	2125	0.01	5-28	1450	0.01
5-27	2130	0.02	5-28	1500	0.01
5-27	2135	0.01	5-28	2130	0.01
5-27	2140	0.01	5-28	2135	0.01
5-27	2150	0.04	5-28	2140	0.01
5-27	2155	0.14	5-28	2145	0.01
5-27	2200	0.01	5-28	2150	0.01
5-27	2205	0.01	5-28	2200	0.01
			5-28	2220	0.02
			5-28	2230	0.01
5-28	1350	0.03	5-28	2235	0.01
5-28	1355	0.14	5-28	2255	0.01
5-28	1400	0.03			
5-28	1405	0.04			
5-28	1410	0.04	5-29	0205	0.04
			5-29	0210	0.01
			5-29	0215	0.02
STORM TOTAL = 0.98					
			5-29	0315	0.01
			5-29	0320	0.01
			5-29	0330	0.01
			5-29	0340	0.01
			5-29	0355	0.01
			5-29	0400	0.01
			5-29	0405	0.01
			5-29	0410	0.01

Table 276.--Rainfall data, July 26, 1981, for station  
06711600 Sanderson Gulch tributary at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
7-26	1915	0.01	7-26	2020	0.01
7-26	1930	0.08	7-26	2025	0.02
7-26	1935	0.09	7-26	2030	0.02
7-26	1940	0.07	7-26	2035	0.02
7-26	1945	0.08	7-26	2040	0.01
7-26	1950	0.02	7-26	2050	0.01
7-26	1955	0.04	7-26	2200	0.01
7-26	2000	0.03	7-26	2205	0.01
7-26	2005	0.02	7-26	2215	0.01
7-26	2015	0.01	7-26	2230	0.01
			7-26	2235	0.01
STORM TOTAL = 0.71					
			7-26	2240	0.01
			7-26	2245	0.01
			7-26	2255	0.01
			7-26	2305	0.01
			7-26	2310	0.01
			7-26	2315	0.03
			7-26	2320	0.03
			7-26	2330	0.01

Table 277.--Rainfall data, May 12, 1981, for station  
06714210 South Platte River tributary at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-12	1955	0.01	5-12	2130	0.01
5-12	2005	0.01	5-12	2135	0.01
5-12	2010	0.01	5-12	2140	0.01
5-12	2030	0.01	5-12	2145	0.02
5-12	2040	0.01	5-12	2150	0.01
5-12	2050	0.01	5-12	2155	0.02
5-12	2100	0.01	5-12	2200	0.01
5-12	2105	0.01	5-12	2205	0.01
5-12	2120	0.01	5-12	2225	0.01
			5-12	2235	0.01

STORM TOTAL = 0.30

Table 278.--Rainfall data, May 16-17, 1981, for station  
06714210 South Platte River tributary at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-16	1050	0.01	5-17	0505	0.02
5-16	1100	0.02	5-17	0510	0.01
5-16	1105	0.03	5-17	0515	0.01
5-16	1110	0.01	5-17	0520	0.01
5-16	1115	0.01	5-17	0525	0.01
5-16	1120	0.03	5-17	0530	0.01
5-16	1125	0.03	5-17	0535	0.01
5-16	1130	0.01	5-17	0540	0.01
5-16	1135	0.02	5-17	0555	0.01
5-16	1145	0.01	5-17	0600	0.01
5-16	1155	0.01	5-17	0605	0.01
5-16	1200	0.01	5-17	0610	0.01
5-16	1215	0.01	5-17	0615	0.01
5-16	1225	0.01	5-17	0620	0.01
5-16	1230	0.01	5-17	0625	0.01
5-16	1235	0.01	5-17	0630	0.01
5-16	1245	0.01	5-17	0635	0.01
5-16	1300	0.01	5-17	0640	0.01
5-16	1315	0.01	5-17	0645	0.01
5-16	1330	0.01	5-17	0650	0.01
5-16	1335	0.01	5-17	0655	0.01
5-16	1345	0.01	5-17	0700	0.01
5-16	1405	0.01	5-17	0730	0.01
5-16	1420	0.01	5-17	0755	0.01
			5-17	0800	0.01
			5-17	0810	0.01
5-17	0415	0.01	5-17	0820	0.01
5-17	0440	0.01	5-17	1030	0.01
5-17	0455	0.01	5-17	1100	0.01

STORM TOTAL = 0.94

Table 279.--Rainfall data, May 27-29, 1981, for station  
06714210 South Platte River tributary at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE
5-27	2200	0.01	5-28	2345	0.01	5-29
5-27	2205	0.05	5-28	2355	0.01	0210
5-27	2210	0.07	5-28	2400	0.01	0220
5-27	2215	0.02				0230
5-27	2220	0.01				0235
5-27	2225	0.01	5-29	0035	0.01	0240
5-27	2305	0.01	5-29	0130	0.01	0245
			5-29	0135	0.01	0250
			5-29	0140	0.01	0255
5-28	2315	0.01	5-29	0145	0.01	0305
5-28	2320	0.04	5-29	0150	0.01	0330
5-28	2325	0.03	5-29	0155	0.02	0340
5-28	2330	0.02	5-29	0200	0.01	0355
STORM TOTAL =		0.54				0410

Table 280.--Rainfall data, July 26, 1981, for station  
06714210 South Platte River tributary at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE
7-26	1925	0.01	7-26	2005	0.04	7-26
7-26	1930	0.05	7-26	2010	0.05	2120
7-26	1935	0.03	7-26	2015	0.08	2235
7-26	1940	0.04	7-26	2020	0.05	2255
7-26	1945	0.07	7-26	2025	0.03	2310
7-26	1950	0.06	7-26	2030	0.01	2315
7-26	1955	0.02	7-26	2035	0.01	2325
7-26	2000	0.02	7-26	2040	0.01	2330
			7-26	2050	0.01	2340
STORM TOTAL =		0.67				



Table 281.--Rainfall data, April 3, 1981, for station  
06711642 McIntyre Gulch No. 1 at Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE
4-03	0945	0.01	4-03	1030	0.02	4-03
4-03	1015	0.02	4-03	1035	0.01	4-03
4-03	1020	0.01	4-03	1040	0.01	4-03
4-03	1025	0.01	4-03	1050	0.01	4-03
			4-03	1105	0.01	4-03
			4-03	1115	0.01	4-03

STORM TOTAL = 0.16

Table 282.--Rainfall data, May 3, 1981, for station  
06711642 McIntyre Gulch No. 1 at Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE
5-03	0200	0.01	5-03	0305	0.01	5-03
5-03	0205	0.01	5-03	0335	0.01	5-03
5-03	0210	0.01	5-03	0345	0.01	5-03
5-03	0215	0.01	5-03	0355	0.02	5-03
5-03	0220	0.01	5-03	0405	0.01	5-03
5-03	0225	0.01	5-03	0410	0.01	5-03
5-03	0230	0.01	5-03	0415	0.01	5-03
5-03	0235	0.02	5-03	0425	0.01	5-03
5-03	0240	0.01	5-03	1025	0.01	5-03
5-03	0245	0.01	5-03	1250	0.01	5-03
5-03	0255	0.01	5-03	1255	0.01	5-03

STORM TOTAL = 0.36

Table 283.--Rainfall data, May 27, 1981, for station  
06711642 McIntyre Gulch No. 1 at Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE
5-27	1415	0.01	5-27	1450	0.01	5-27
			5-27	1455	0.20	5-27

STORM TOTAL = 0.23

Table 284.--Rainfall data, July 26-27, 1981, for station  
06711642 McIntyre Gulch No. 1 at Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
7-26	1920	0.01	7-26	2005	0.02	
7-26	1925	0.01	7-26	2010	0.01	
7-26	1930	0.01	7-26	2015	0.02	
7-26	1935	0.01	7-26	2020	0.01	
7-26	1945	0.02	7-26	2030	0.01	
7-26	1950	0.01	7-26	2035	0.01	
7-26	1955	0.01	7-26	2140	0.01	
7-26	2000	0.01	7-26	2225	0.01	
			7-26	2230	0.01	

STORM TOTAL = 0.26

Table 285.--Rainfall data, April 3, 1981, for station  
06711645 McIntyre Gulch No. 2 at Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
4-03	0725	0.01	4-03	0950	0.01	
4-03	0830	0.01	4-03	0955	0.02	
4-03	0940	0.01	4-03	1010	0.01	
4-03	0945	0.01	4-03	1020	0.01	
			4-03	1035	0.01	
			4-03	1050	0.01	
			4-03	1115	0.01	
			4-03	1435	0.01	

STORM TOTAL = 0.13

Table 286.--Rainfall data, May 3, 1981, for station  
06711645 McIntyre Gulch No. 2 at Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
5-03	0200	0.01	5-03	0300	0.01	
5-03	0205	0.01	5-03	0315	0.01	
5-03	0210	0.01	5-03	0340	0.01	
5-03	0220	0.01	5-03	0345	0.01	
5-03	0225	0.01	5-03	0355	0.01	
5-03	0230	0.01	5-03	0400	0.01	
5-03	0235	0.01	5-03	0405	0.01	
5-03	0240	0.01	5-03	0415	0.01	
5-03	0245	0.01	5-03	0420	0.01	
5-03	0250	0.01	5-03	0835	0.01	
5-03	0255	0.01	5-03	1250	0.01	
			5-03	1255	0.01	
			5-03	1305	0.01	
			5-03	1310	0.01	
			5-03	1315	0.01	
			5-03	1320	0.01	
			5-03	1325	0.01	
			5-03	1620	0.01	
			5-03	1625	0.01	
			5-03	2105	0.01	
			5-03	2200	0.01	
			5-03	2205	0.01	
			5-03	2220	0.01	

STORM TOTAL = 0.34

Table 287.--Rainfall data, May 5, 1981, for station  
06711645 McIntyre Gulch No. 2 at Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-05	1225	0.01	5-05	1655	0.01
5-05	1640	0.01	5-05	1715	0.01
			5-05	1720	0.01

STORM TOTAL = 0.07

Table 288.--Rainfall data, May 12, 1981, for station  
06711645 McIntyre Gulch No. 2 at Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-12	2035	0.02	5-12	2125	0.02
5-12	2040	0.02	5-12	2130	0.01
5-12	2045	0.02	5-12	2135	0.01
5-12	2050	0.01	5-12	2140	0.01
5-12	2055	0.01	5-12	2145	0.01
5-12	2105	0.01	5-12	2150	0.01
5-12	2110	0.01	5-12	2210	0.01
5-12	2115	0.01	5-12	2220	0.01
5-12	2120	0.01	5-12	2230	0.01
			5-12	2235	0.01

STORM TOTAL = 0.32

Table 289.--Rainfall data, May 16-17, 1981, for station  
06711645 McIntyre Gulch No. 2 at Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL									
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
5-16	0955	0.01	5-17	0640	0.01	5-17	1450	0.01	0.01
5-16	1100	0.01	5-17	0650	0.01	5-17	1455	0.01	0.01
5-16	1225	0.01	5-17	0655	0.01	5-17	1500	0.01	0.01
5-16	1240	0.01	5-17	0700	0.01	5-17	1530	0.01	0.01
5-16	1250	0.01	5-17	0710	0.01	5-17	1540	0.01	0.01
5-16	1300	0.01	5-17	0720	0.01	5-17	1610	0.01	0.01
5-16	1310	0.01	5-17	0725	0.01	5-17	1625	0.01	0.01
5-16	1325	0.01	5-17	0740	0.01	5-17	1635	0.01	0.01
5-16	1340	0.01	5-17	0750	0.01	5-17	1640	0.01	0.01
5-16	1350	0.01	5-17	0755	0.01	5-17	1645	0.01	0.01
5-16	1400	0.01	5-17	0800	0.01	5-17	1655	0.01	0.01
5-16	1415	0.01	5-17	0805	0.01	5-17	1700	0.01	0.01
5-16	1425	0.01	5-17	0815	0.01	5-17	1705	0.01	0.01
5-16	1455	0.01	5-17	0825	0.01	5-17	1710	0.01	0.01
			5-17	0835	0.01	5-17	1715	0.01	0.01
			5-17	0845	0.01	5-17	1725	0.01	0.01
5-17	0155	0.01	5-17	0850	0.01	5-17	1740	0.01	0.01
5-17	0510	0.01	5-17	0855	0.01	5-17	1750	0.01	0.01
5-17	0515	0.01	5-17	0905	0.01	5-17	1800	0.01	0.01
5-17	0520	0.01	5-17	0935	0.01	5-17	1815	0.01	0.01
5-17	0535	0.01	5-17	1000	0.01	5-17	1830	0.01	0.01
5-17	0545	0.01	5-17	1120	0.01	5-17	1850	0.01	0.01
5-17	0555	0.01	5-17	1210	0.01	5-17	1920	0.01	0.01
5-17	0600	0.01	5-17	1415	0.01	5-17	2025	0.01	0.01
5-17	0605	0.01	5-17	1420	0.01	5-17	2125	0.01	0.01
5-17	0615	0.01	5-17	1425	0.01	5-17	2220	0.01	0.01
5-17	0625	0.01	5-17	1430	0.01	5-17	2255	0.01	0.01
5-17	0630	0.01	5-17	1435	0.01	5-17	2345	0.01	0.01
			5-17	1440	0.01				

STORM TOTAL = 0.83

Table 290.--Rainfall data, May 27-29, 1981, for station  
06711645 McIntyre Gulch No. 2 at Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
5-27	0040	0.01	5-28	0250	0.03	0.01
5-27	0835	0.01	5-28	0255	0.02	0.01
5-27	1120	0.01	5-28	0300	0.02	0.01
5-27	2140	0.15	5-28	0305	0.01	
5-27	2145	0.11	5-28	0315	0.01	
5-27	2150	0.04	5-28	0525	0.01	0.01
5-27	2155	0.22	5-28	0940	0.01	0.02
5-27	2200	0.07	5-28	1335	0.01	0.01
5-27	2205	0.01	5-28	1340	0.02	0.02
			5-28	1345	0.07	0.02
			5-28	1350	0.04	0.01
5-28	0020	0.01	5-28	1355	0.10	0.01
5-28	0220	0.01	5-28	1400	0.03	0.01
5-28	0225	0.01	5-28	1410	0.01	0.01
5-28	0230	0.01	5-28	1510	0.01	0.01
5-28	0235	0.02	5-28	2115	0.01	0.01
5-28	0240	0.01	5-28	2120	0.01	0.01
5-28	0245	0.02	5-28	2125	0.02	0.01
			5-28	2130	0.01	0.01

STORM TOTAL = 1.36

Table 291.--Rainfall data, July 26, 1981, for station  
06711645 McIntyre Gulch No. 2 at Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
7-26	1910	0.01	7-26	2000	0.01	0.01
7-26	1915	0.05	7-26	2005	0.01	0.01
7-26	1920	0.12	7-26	2010	0.01	0.01
7-26	1925	0.13	7-26	2025	0.01	0.01
7-26	1930	0.17	7-26	2030	0.01	0.01
7-26	1935	0.17	7-26	2035	0.01	0.02
7-26	1940	0.13	7-26	2040	0.03	0.01
7-26	1945	0.04	7-26	2100	0.01	0.01
7-26	1950	0.01	7-26	2150	0.01	0.01
7-26	1955	0.01	7-26	2200	0.02	0.02

STORM TOTAL = 1.09

Table 292.--Rainfall data, April 3, 1981, for station  
06719514 Agricultural Ditch inflow to Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
4-03	0920	0.01	4-03	0945	0.01	0.01
4-03	0935	0.01	4-03	1005	0.01	0.01
4-03	0940	0.01	4-03	1015	0.01	0.01
			4-03	1040	0.01	0.01
STORM TOTAL = 0.10						

Table 293.--Rainfall data, May 3, 1981, for station  
06719514 Agricultural Ditch inflow to Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
5-03	0200	0.01	5-03	0250	0.01	0.01
5-03	0205	0.01	5-03	0310	0.01	0.01
5-03	0210	0.01	5-03	0340	0.01	0.01
5-03	0215	0.01	5-03	0350	0.01	0.01
5-03	0220	0.01	5-03	0355	0.01	0.01
5-03	0225	0.01	5-03	0405	0.01	0.01
5-03	0230	0.01	5-03	0415	0.01	0.01
5-03	0235	0.01	5-03	0805	0.01	0.01
5-03	0240	0.01	5-03	1250	0.01	0.01
5-03	0245	0.01	5-03	1255	0.01	0.01
			5-03	1305	0.01	0.01
STORM TOTAL = 0.33						

Table 294.--Rainfall data, May 5, 1981, for station  
06719514 Agricultural Ditch inflow to Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-05	1645	0.01	5-05	1655	0.01
			5-05	1715	0.01
			5-05	1720	0.01
			5-05	1740	0.01

STORM TOTAL = 0.05

Table 295.--Rainfall data, May 12, 1981, for station  
06719514 Agricultural Ditch inflow to Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-12	2020	0.01	5-12	2110	0.01
5-12	2025	0.02	5-12	2115	0.01
5-12	2030	0.02	5-12	2120	0.01
5-12	2035	0.03	5-12	2125	0.01
5-12	2040	0.02	5-12	2130	0.02
5-12	2045	0.01	5-12	2135	0.01
5-12	2050	0.01	5-12	2140	0.01
5-12	2055	0.01	5-12	2145	0.01
5-12	2100	0.01	5-12	2200	0.01
5-12	2105	0.02	5-12	2210	0.01
			5-12	2220	0.01
			5-12	2225	0.01

STORM TOTAL = 0.40

Table 296.--Rainfall data, May 16-18, 1981, for station  
06719514 Agricultural Ditch inflow to Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL									
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
5-16	1030	0.01	5-17	0655	0.01	5-17	1540	0.01	0.01
5-16	1055	0.01	5-17	0705	0.01	5-17	1605	0.01	0.01
5-16	1230	0.01	5-17	0710	0.01	5-17	1620	0.01	0.01
5-16	1240	0.01	5-17	0715	0.01	5-17	1630	0.01	0.01
5-16	1245	0.01	5-17	0720	0.01	5-17	1635	0.01	0.01
5-16	1255	0.01	5-17	0730	0.01	5-17	1645	0.01	0.01
5-16	1305	0.01	5-17	0740	0.01	5-17	1650	0.01	0.01
5-16	1330	0.01	5-17	0750	0.01	5-17	1655	0.01	0.01
5-16	1405	0.01	5-17	0755	0.02	5-17	1705	0.01	0.01
5-16	1430	0.01	5-17	0805	0.01	5-17	1710	0.01	0.01
5-16	1525	0.01	5-17	0815	0.01	5-17	1720	0.01	0.01
			5-17	0820	0.01	5-17	1735	0.01	0.01
			5-17	0835	0.01	5-17	1755	0.01	0.01
5-17	0500	0.01	5-17	0845	0.01	5-17	1805	0.01	0.01
5-17	0510	0.01	5-17	0850	0.01	5-17	1815	0.01	0.01
5-17	0515	0.01	5-17	0900	0.01	5-17	1830	0.01	0.01
5-17	0525	0.01	5-17	0925	0.01	5-17	1845	0.01	0.01
5-17	0540	0.01	5-17	0955	0.01	5-17	1910	0.01	0.01
5-17	0545	0.01	5-17	1040	0.01	5-17	2000	0.01	0.01
5-17	0550	0.01	5-17	1155	0.01	5-17	2100	0.01	0.01
5-17	0555	0.01	5-17	1230	0.01	5-17	2205	0.01	0.01
5-17	0605	0.01	5-17	1415	0.01	5-17	2235	0.01	0.01
5-17	0610	0.01	5-17	1420	0.01	5-17	2330	0.01	0.01
5-17	0615	0.01	5-17	1425	0.02				
5-17	0625	0.01	5-17	1435	0.01				
5-17	0630	0.01	5-17	1445	0.01	5-18	0010	0.01	0.01
5-17	0635	0.01	5-17	1450	0.01	5-18	0050	0.01	0.01
5-17	0645	0.01	5-17	1500	0.01	5-18	0135	0.01	0.01
5-17	0650	0.01	5-17	1525	0.01	5-18	0240	0.01	0.01

STORM TOTAL = 0.85



Table 297.--Rainfall data, May 27-28, 1981, for station  
06719514 Agricultural Ditch inflow to Denver Federal Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE
5-27	0730	0.01	5-27	2250	0.01	5-28
5-27	2145	0.03				0330
5-27	2150	0.02				0340
5-27	2155	0.02	5-28	0220	0.01	0345
5-27	2200	0.02	5-28	0225	0.01	0350
5-27	2205	0.02	5-28	0230	0.01	0400
5-27	2210	0.02	5-28	0235	0.01	0420
5-27	2215	0.01	5-28	0240	0.01	0445
5-27	2220	0.02	5-28	0245	0.01	0455
5-27	2225	0.01	5-28	0250	0.01	0515
5-27	2230	0.02	5-28	0255	0.01	0835
5-27	2235	0.01	5-28	0300	0.01	1420
5-27	2240	0.01	5-28	0310	0.01	1455
5-27	2245	0.02	5-28	0315	0.01	1525
			5-28	0320	0.01	1600
			5-28	0325	0.01	

STORM TOTAL = 0.52

Table 298.--Rainfall data, April 3, 1981, for station  
06719518 Denver Federal Center field at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE
4-03	0925	0.01	4-03	0955	0.01	4-03
4-03	0940	0.01	4-03	1000	0.01	1025
4-03	0945	0.01	4-03	1010	0.01	1115
4-03	0950	0.01	4-03	1015	0.01	1345
						2025

STORM TOTAL = 0.12

Table 299.--Rainfall data, April 3, 1981, for station  
393500104560901 Big Dry at Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
4-03	0700	0.01	4-03	1045	0.01
4-03	0720	0.01	4-03	1050	0.01
4-03	0820	0.01	4-03	1055	0.01
4-03	1005	0.01	4-03	1100	0.01
4-03	1015	0.01	4-03	1105	0.01
4-03	1025	0.01	4-03	1110	0.01
4-03	1030	0.01	4-03	1120	0.01
4-03	1035	0.01	4-03	1125	0.01
4-03	1040	0.01	4-03	1130	0.01
			4-03	1135	0.01
			4-03	1140	0.01
			4-03	1150	0.01
			4-03	1155	0.02
			4-03	1205	0.01
			4-03	1210	0.01
			4-03	1215	0.01
			4-03	1225	0.01
			4-03	1240	0.01
			4-03	1255	0.01
			4-03	1315	0.01

STORM TOTAL = 0.30

Table 300.--Rainfall data, May 3, 1981, for station  
393500104560901 Big Dry at Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-03	0305	0.02	5-03	0350	0.02
5-03	0310	0.01	5-03	0355	0.02
5-03	0330	0.01	5-03	0400	0.02
5-03	0335	0.01	5-03	0405	0.01
5-03	0340	0.03	5-03	0410	0.01
5-03	0345	0.02	5-03	0415	0.01
			5-03	0925	0.01
			5-03	1245	0.02
			5-03	1250	0.03
			5-03	1255	0.04
			5-03	1300	0.22
			5-03	1305	0.20
			5-03	1310	0.01
			5-03	1320	0.01

STORM TOTAL = 0.73

Table 301.--Rainfall data, May 12-13, 1981, for station  
393500104560901 Big Dry at Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-12	2005	0.01	5-12	2115	0.01
5-12	2010	0.01	5-12	2130	0.01
5-12	2025	0.02	5-12	2140	0.01
5-12	2030	0.01	5-12	2145	0.01
5-12	2035	0.01	5-12	2155	0.01
5-12	2045	0.01	5-12	2200	0.02
5-12	2050	0.01	5-12	2205	0.01
5-12	2055	0.02	5-12	2220	0.01
5-12	2100	0.01	5-12	2235	0.01
			5-12	2250	0.01
			5-12	2255	0.01
			5-12	2300	0.01
			5-12	2315	0.01
			5-12	2345	0.01
			5-13	0005	0.01
			5-13	0015	0.01
			5-13	0040	0.01

STORM TOTAL = 0.29

Table 302.--Rainfall data, May 17-18, 1981, for station  
393500104560901 Big Dry at Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL									
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
5-17	0510	0.01	5-17	0925	0.01	5-17	1645	0.01	0.01
5-17	0520	0.01	5-17	0935	0.01	5-17	1655	0.01	0.01
5-17	0530	0.01	5-17	0950	0.01	5-17	1700	0.01	0.01
5-17	0540	0.01	5-17	1005	0.01	5-17	1705	0.01	0.01
5-17	0550	0.01	5-17	1055	0.01	5-17	1715	0.01	0.01
5-17	0555	0.01	5-17	1115	0.01	5-17	1725	0.01	0.01
5-17	0600	0.01	5-17	1140	0.01	5-17	1735	0.01	0.01
5-17	0605	0.01	5-17	1225	0.01	5-17	1740	0.01	0.01
5-17	0610	0.01	5-17	1415	0.01	5-17	1750	0.01	0.01
5-17	0615	0.01	5-17	1420	0.01	5-17	1755	0.01	0.01
5-17	0620	0.02	5-17	1430	0.02	5-17	1805	0.01	0.01
5-17	0630	0.01	5-17	1435	0.01	5-17	1820	0.01	0.01
5-17	0635	0.01	5-17	1440	0.01	5-17	1825	0.01	0.01
5-17	0640	0.01	5-17	1445	0.01	5-17	1840	0.01	0.01
5-17	0645	0.01	5-17	1450	0.01	5-17	1850	0.01	0.01
5-17	0650	0.01	5-17	1455	0.02	5-17	1900	0.01	0.01
5-17	0655	0.02	5-17	1500	0.01	5-17	1920	0.01	0.01
5-17	0700	0.01	5-17	1510	0.01	5-17	1945	0.01	0.01
5-17	0705	0.01	5-17	1515	0.01	5-17	2010	0.01	0.01
5-17	0710	0.01	5-17	1520	0.02	5-17	2050	0.01	0.01
5-17	0715	0.01	5-17	1525	0.01	5-17	2130	0.01	0.01
5-17	0720	0.01	5-17	1530	0.01	5-17	2200	0.01	0.01
5-17	0725	0.01	5-17	1535	0.01	5-17	2220	0.01	0.01
5-17	0740	0.01	5-17	1540	0.01	5-17	2235	0.01	0.01
5-17	0800	0.01	5-17	1545	0.01	5-17	2255	0.01	0.01
5-17	0815	0.01	5-17	1550	0.01	5-17	2315	0.01	0.01
5-17	0825	0.02	5-17	1555	0.01	5-17	2345	0.01	0.01
5-17	0835	0.01	5-17	1600	0.01	5-17	2400	0.01	0.01
5-17	0840	0.01	5-17	1605	0.01				
5-17	0845	0.02	5-17	1615	0.02				
5-17	0850	0.01	5-17	1620	0.02	5-18	0030	0.01	0.01
5-17	0855	0.01	5-17	1625	0.01	5-18	0110	0.01	0.01
5-17	0905	0.01	5-17	1635	0.01	5-18	0140	0.01	0.01
5-17	0915	0.01	5-17	1640	0.01	5-18	0245	0.01	0.01

STORM TOTAL = 1.09

Table 303.---Rainfall data, May 28-29, 1981, for station  
393500104560901 Big Dry at Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-28	0220	0.01	5-29	0245	0.04
5-28	0230	0.01	5-29	0250	0.05
5-28	0235	0.01	5-29	0255	0.03
5-28	0250	0.01	5-29	0300	0.03
5-28	0305	0.03	5-29	0305	0.02
5-28	0310	0.06	5-29	0310	0.02
5-28	0315	0.03	5-29	0315	0.03
5-28	0320	0.02	5-29	0320	0.04
5-28	0325	0.01	5-29	0325	0.01
5-28	0330	0.01	5-29	0330	0.01
5-28	0340	0.02	5-29	0335	0.02
5-28	0345	0.01	5-29	0340	0.03
5-28	0355	0.01	5-29	0345	0.02
			5-29	0350	0.03
			5-29	0355	0.01
5-29	0125	0.01	5-29	0400	0.02
5-29	0130	0.01	5-29	0405	0.01
5-29	0135	0.01	5-29	0410	0.01
5-29	0140	0.01	5-29	0415	0.02
5-29	0210	0.01	5-29	0420	0.02
STORM TOTAL =		1.02			

Table 304.---Rainfall data, July 26, 1981, for station  
393500104560901 Big Dry at Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
7-26	2000	0.01	7-26	2050	0.01
7-26	2005	0.05	7-26	2055	0.01
7-26	2010	0.06	7-26	2100	0.01
7-26	2015	0.03	7-26	2105	0.01
7-26	2020	0.07	7-26	2120	0.01
7-26	2025	0.02	7-26	2150	0.01
7-26	2030	0.01	7-26	2155	0.01
7-26	2035	0.01	7-26	2210	0.01
7-26	2045	0.01	7-26	2220	0.01
STORM TOTAL =		0.55			

Table 305.--Rainfall data, April 3, 1981, for station  
393628105063001 Bowles rain gage near Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
4-03	0535	0.01	4-03	0715	0.01	0.01
4-03	0545	0.01	4-03	0725	0.01	0.01
4-03	0610	0.01	4-03	0835	0.01	0.02
4-03	0620	0.01	4-03	1020	0.02	0.01
4-03	0625	0.01	4-03	1025	0.02	0.01
4-03	0630	0.01	4-03	1030	0.02	0.02
4-03	0635	0.01	4-03	1035	0.01	0.01
4-03	0640	0.01	4-03	1040	0.02	0.01
4-03	0645	0.01	4-03	1045	0.01	0.01
4-03	0650	0.01	4-03	1050	0.01	0.01
4-03	0655	0.01	4-03	1055	0.02	0.01
4-03	0705	0.01	4-03	1100	0.01	0.01
4-03	0710	0.01	4-03	1105	0.01	0.01
			4-03	1110	0.02	0.01

STORM TOTAL = 0.48

Table 306.--Rainfall data, May 3, 1981, for station  
393628105063001 Bowles rain gage near Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
5-03	0120	0.01	5-03	0235	0.01	0.01
5-03	0130	0.01	5-03	0255	0.01	0.01
5-03	0145	0.01	5-03	0300	0.01	0.06
5-03	0200	0.01	5-03	0305	0.02	0.21
5-03	0215	0.01	5-03	0310	0.03	0.01
5-03	0220	0.01	5-03	0315	0.02	0.01
			5-03	0320	0.01	

STORM TOTAL = 0.48

Table 307.--Rainfall data, May 12-13, 1981, for station  
393628105063001 Bowles rain gage near Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-12	2040	0.02	5-12	2135	0.01
5-12	2045	0.01	5-12	2140	0.01
5-12	2050	0.01	5-12	2145	0.01
5-12	2055	0.01	5-12	2150	0.01
5-12	2100	0.02	5-12	2200	0.01
5-12	2110	0.01	5-12	2210	0.01
5-12	2115	0.01	5-12	2215	0.01
5-12	2120	0.01	5-12	2220	0.01
5-12	2125	0.01	5-12	2225	0.01
5-12	2130	0.01	5-12	2235	0.01
			5-12	2245	0.01
			5-12	2255	0.01
			5-13	0005	0.01

STORM TOTAL = 0.32

Table 308.--Rainfall data, May 17-18, 1981, for station  
393628105063001 Bowles rain gage near Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-17	0535	0.01	5-17	0810	0.01
5-17	0545	0.01	5-17	0815	0.02
5-17	0555	0.01	5-17	0820	0.01
5-17	0605	0.01	5-17	0830	0.01
5-17	0615	0.01	5-17	0840	0.01
5-17	0625	0.01	5-17	0855	0.01
5-17	0630	0.01	5-17	0900	0.01
5-17	0640	0.01	5-17	0910	0.01
5-17	0645	0.01	5-17	0920	0.01
5-17	0650	0.01	5-17	0935	0.01
5-17	0700	0.01	5-17	1015	0.01
5-17	0705	0.01	5-17	1045	0.01
5-17	0710	0.01	5-17	1200	0.01
5-17	0715	0.01	5-17	1230	0.01
5-17	0720	0.01	5-17	1430	0.01
5-17	0725	0.01	5-17	1435	0.01
5-17	0730	0.01	5-17	1445	0.01
5-17	0735	0.01	5-17	1455	0.01
5-17	0740	0.01	5-17	1500	0.01
5-17	0755	0.01	5-17	1515	0.01
5-17	0805	0.02	5-17	1540	0.01
			5-17	1600	0.01
			5-17	1625	0.01
			5-18	0040	0.01
			5-18	0150	0.01

STORM TOTAL = 0.66

Table 309.---Rainfall data, May 28-29, 1981, for station  
393628105063001 Bowles rain gage near Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-28	0215	0.01	5-29	0150	0.01
5-28	0220	0.02	5-29	0200	0.01
5-28	0225	0.01	5-29	0205	0.01
5-28	0230	0.01	5-29	0210	0.01
5-28	0235	0.01	5-29	0215	0.01
5-28	0410	0.01	5-29	0220	0.01
5-28	0450	0.01	5-29	0225	0.05
			5-29	0230	0.02
			5-29	0235	0.02
5-29	0135	0.01	5-29	0240	0.03
5-29	0145	0.02	5-29	0245	0.01
			5-29	0250	0.02

STORM TOTAL = 0.47

Table 310.---Rainfall data, July 26, 1981, for station  
393628105063001 Bowles rain gage near Littleton

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
7-26	1850	0.02	7-26	1955	0.02
7-26	1855	0.03	7-26	2000	0.01
7-26	1900	0.01	7-26	2005	0.03
7-26	1905	0.01	7-26	2010	0.01
7-26	1920	0.01	7-26	2015	0.01
7-26	1925	0.01	7-26	2020	0.01
7-26	1930	0.18	7-26	2025	0.01
7-26	1935	0.20	7-26	2030	0.02
7-26	1940	0.14	7-26	2040	0.01
7-26	1945	0.12	7-26	2145	0.01
7-26	1950	0.05	7-26	2150	0.01
			7-26	2200	0.01
			7-26	2225	0.01
			7-26	2230	0.01
			7-26	2240	0.01
			7-26	2245	0.01
			7-26	2300	0.01
			7-26	2305	0.01
			7-26	2310	0.02
			7-26	2315	0.01
			7-26	2320	0.02
			7-26	2325	0.01
			7-26	2335	0.01

STORM TOTAL = 1.07



Table 311.--Rainfall data, April 3, 1981, for station  
393947104555101 Harvard Gulch at Bradley School, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
4-03	0610	0.01	4-03	0905	0.01
4-03	0620	0.01	4-03	0915	0.01
4-03	0625	0.01	4-03	0920	0.01
4-03	0630	0.01	4-03	0930	0.01
4-03	0635	0.01	4-03	0945	0.01
4-03	0640	0.01	4-03	0955	0.01
4-03	0645	0.01	4-03	1000	0.01
4-03	0650	0.01	4-03	1005	0.01
4-03	0655	0.02	4-03	1010	0.01
4-03	0700	0.02	4-03	1015	0.01
4-03	0705	0.01	4-03	1020	0.01
4-03	0710	0.02	4-03	1030	0.02
4-03	0715	0.02	4-03	1035	0.01
4-03	0720	0.01	4-03	1040	0.01
4-03	0820	0.01	4-03	1045	0.01
			4-03	1050	0.01
			4-03	1100	0.01
			4-03	1105	0.01
			4-03	1110	0.01
			4-03	1115	0.02
			4-03	1120	0.01
			4-03	1125	0.01
			4-03	1130	0.01
			4-03	1135	0.02
			4-03	1140	0.01
			4-03	1145	0.01
			4-03	1150	0.01
			4-03	1155	0.01
			4-03	1205	0.01
			4-03	1215	0.01
			4-03	1225	0.01
			4-03	1305	0.01

STORM TOTAL = 0.54

Table 312.--Rainfall data, May 3, 1981, for station  
393947104555101 Harvard Gulch at Bradley School, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-03	0125	0.01	5-03	0250	0.01
5-03	0135	0.01	5-03	0310	0.01
5-03	0145	0.01	5-03	0320	0.01
5-03	0150	0.01	5-03	0325	0.02
5-03	0200	0.01	5-03	0330	0.02
5-03	0205	0.01	5-03	0335	0.02
5-03	0220	0.01	5-03	0340	0.01
5-03	0230	0.01	5-03	0355	0.01
5-03	0235	0.01	5-03	0440	0.01
			5-03	0540	0.01
			5-03	1220	0.01
			5-03	1225	0.02
			5-03	1230	0.08
			5-03	1235	0.15
			5-03	1240	0.11
			5-03	1245	0.05
			5-03	1250	0.03
			5-03	1255	0.01

STORM TOTAL = 0.68

Table 313.--Rainfall data, May 12-13, 1981, for station  
393947104555101 Harvard Gulch at Bradley School, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-12	2025	0.01	5-12	2135	0.01
5-12	2035	0.01	5-12	2140	0.01
5-12	2040	0.01	5-12	2145	0.01
5-12	2045	0.01	5-12	2150	0.01
5-12	2050	0.01	5-12	2155	0.01
5-12	2100	0.01	5-12	2205	0.01
5-12	2105	0.01	5-12	2215	0.01
5-12	2110	0.01	5-12	2235	0.01
5-12	2120	0.01	5-12	2240	0.01
5-12	2125	0.01	5-12	2245	0.01
5-12	2130	0.01	5-12	2255	0.01
			5-12	2305	0.01
			5-12	2315	0.01
			5-12	2325	0.01
			5-12	2335	0.01
			5-12	2340	0.01
			5-12	2350	0.01
			5-12	2355	0.01
			5-12	2400	0.01
			5-13	0010	0.01
			5-13	0030	0.01
			5-13	0110	0.01

STORM TOTAL = 0.33

Table 314.--Rainfall data, May 17-18, 1981, for station  
393947104555101 Harvard Gulch at Bradley School, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL

DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-17	0420	0.01	5-17	0900	0.01	5-17	1700	0.01
5-17	0435	0.01	5-17	0910	0.01	5-17	1705	0.01
5-17	0450	0.01	5-17	0930	0.01	5-17	1715	0.01
5-17	0455	0.01	5-17	0950	0.01	5-17	1720	0.01
5-17	0500	0.01	5-17	1015	0.01	5-17	1730	0.01
5-17	0515	0.01	5-17	1045	0.01	5-17	1735	0.01
5-17	0520	0.01	5-17	1050	0.01	5-17	1740	0.01
5-17	0525	0.01	5-17	1100	0.01	5-17	1750	0.01
5-17	0530	0.01	5-17	1115	0.01	5-17	1755	0.01
5-17	0535	0.01	5-17	1355	0.01	5-17	1805	0.01
5-17	0540	0.01	5-17	1405	0.01	5-17	1815	0.01
5-17	0545	0.01	5-17	1410	0.01	5-17	1820	0.01
5-17	0550	0.01	5-17	1415	0.02	5-17	1825	0.01
5-17	0555	0.01	5-17	1420	0.02	5-17	1835	0.01
5-17	0600	0.01	5-17	1425	0.02	5-17	1840	0.01
5-17	0605	0.01	5-17	1430	0.01	5-17	1855	0.01
5-17	0610	0.01	5-17	1435	0.02	5-17	1900	0.01
5-17	0615	0.01	5-17	1440	0.01	5-17	1915	0.01
5-17	0620	0.01	5-17	1445	0.01	5-17	1930	0.01
5-17	0625	0.02	5-17	1450	0.02	5-17	1940	0.01
5-17	0630	0.02	5-17	1455	0.01	5-17	2010	0.01
5-17	0635	0.02	5-17	1500	0.01	5-17	2025	0.01
5-17	0640	0.01	5-17	1505	0.01	5-17	2035	0.01
5-17	0645	0.02	5-17	1510	0.01	5-17	2050	0.01
5-17	0650	0.01	5-17	1515	0.02	5-17	2105	0.01
5-17	0655	0.02	5-17	1520	0.01	5-17	2120	0.01
5-17	0700	0.01	5-17	1530	0.01	5-17	2130	0.01
5-17	0705	0.01	5-17	1535	0.02	5-17	2145	0.01
5-17	0710	0.01	5-17	1540	0.01	5-17	2155	0.01
5-17	0715	0.01	5-17	1545	0.01	5-17	2210	0.01
5-17	0725	0.01	5-17	1550	0.01	5-17	2220	0.01
5-17	0730	0.01	5-17	1555	0.01	5-17	2230	0.01
5-17	0740	0.01	5-17	1600	0.01	5-17	2240	0.01
5-17	0750	0.01	5-17	1605	0.02	5-17	2255	0.01
5-17	0805	0.01	5-17	1610	0.01	5-17	2325	0.01
5-17	0810	0.01	5-17	1615	0.01	5-17	2345	0.01
5-17	0815	0.01	5-17	1620	0.02			
5-17	0820	0.01	5-17	1625	0.01			
5-17	0825	0.02	5-17	1630	0.01	5-18	0005	0.01
5-17	0830	0.01	5-17	1635	0.01	5-18	0040	0.01
5-17	0840	0.01	5-17	1640	0.01	5-18	0100	0.01
5-17	0850	0.01	5-17	1645	0.01	5-18	0200	0.01
			5-17	1650	0.01			
			5-17	1655	0.01			

STORM TOTAL = 1.41

Table 315.--Rainfall data, May 28-29, 1981, for station  
393947104555101 Harvard Gulch at Bradley School, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-28	0200	0.01	5-29	0045	0.01
5-28	0205	0.01	5-29	0120	0.03
5-28	0210	0.02	5-29	0125	0.01
5-28	0215	0.01	5-29	0130	0.01
5-28	0220	0.01	5-29	0135	0.01
5-28	0250	0.01	5-29	0140	0.02
5-28	0300	0.01	5-29	0145	0.02
5-28	0305	0.03	5-29	0150	0.01
5-28	0310	0.01	5-29	0155	0.02
5-28	0315	0.01	5-29	0200	0.02
5-28	0325	0.01	5-29	0205	0.03
5-28	0740	0.01	5-29	0210	0.01
5-28	1420	0.46	5-29	0220	0.01
5-28	1425	0.31	5-29	0225	0.01
5-28	1430	0.12	5-29	0230	0.02
5-28	1435	0.03	5-29	0235	0.02
5-28	1520	0.01	5-29	0240	0.03
5-28	1525	0.01	5-29	0245	0.01
5-28	2205	0.01	5-29	0250	0.02
5-28	2210	0.01	5-29	0255	0.02
5-28	2220	0.01	5-29	0300	0.02
5-28	2225	0.01	5-29	0305	0.02
5-28	2230	0.01	5-29	0310	0.03
5-28	2235	0.02	5-29	0315	0.03
5-28	2245	0.01	5-29	0320	0.03
5-28	2310	0.01	5-29	0325	0.03
			5-29	0330	0.03
			5-29	0335	0.03

STORM TOTAL = 2.11

Table 316.--Rainfall data, July 26, 1981, for station  
393947104555101 Harvard Gulch at Bradley School, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
7-26	1930	0.01	7-26	2050	0.02
7-26	2010	0.01	7-26	2055	0.02
7-26	2015	0.05	7-26	2100	0.01
7-26	2020	0.02	7-26	2105	0.01
7-26	2025	0.02	7-26	2120	0.01
7-26	2030	0.02	7-26	2125	0.01
7-26	2035	0.01	7-26	2130	0.05
7-26	2040	0.02	7-26	2135	0.01
7-26	2045	0.02	7-26	2140	0.01
			7-26	2145	0.01

STORM TOTAL = 0.50

Table 317.--Rainfall data, April 3, 1981, for station  
394028104560201 Harvard Gulch at Bethesda Hospital, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
4-03	0635	0.02	4-03	0925	0.01
4-03	0640	0.01	4-03	0930	0.02
4-03	0645	0.01	4-03	0945	0.01
4-03	0650	0.01	4-03	0950	0.01
4-03	0655	0.01	4-03	1005	0.01
4-03	0700	0.01	4-03	1010	0.01
4-03	0705	0.02	4-03	1015	0.01
4-03	0710	0.01	4-03	1020	0.01
4-03	0715	0.02	4-03	1025	0.01
4-03	0725	0.01	4-03	1040	0.01
4-03	0730	0.01	4-03	1045	0.01
4-03	0805	0.01	4-03	1055	0.01
			4-03	1105	0.01

STORM TOTAL = 0.41

Table 318.--Rainfall data, May 3, 1981, for station  
394028104560201 Harvard Gulch at Bethesda Hospital, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
5-03	0200	0.01	5-03	1225	0.02	0.04
5-03	0205	0.01	5-03	1230	0.05	0.01
5-03	0230	0.02	5-03	1235	0.11	0.05
5-03	0325	0.01	5-03	1240	0.10	0.03
5-03	0330	0.02	5-03	1245	0.09	0.01
5-03	0335	0.02	5-03	1250	0.04	0.02
5-03	0340	0.01	5-03	1255	0.01	0.01
5-03	0345	0.01	5-03	1300	0.01	0.01
5-03	1050	0.01	5-03	1535	0.01	0.01
5-03	1055	0.01	5-03	1540	0.01	0.01
STORM TOTAL =		0.78				

Table 319.--Rainfall data, May 12, 1981, for station  
394028104560201 Harvard Gulch at Bethesda Hospital, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	RAINFALL
5-12	2040	0.02	5-12	2140	0.01	0.01
5-12	2050	0.01	5-12	2145	0.01	0.01
5-12	2055	0.01	5-12	2150	0.01	0.01
5-12	2105	0.02	5-12	2200	0.01	0.01
5-12	2125	0.01	5-12	2215	0.01	0.01
5-12	2130	0.01	5-12	2220	0.01	0.01
5-12	2135	0.01	5-12	2305	0.01	0.01
STORM TOTAL =		0.23				

RAINFALL, IN INCHES, DURING INDICATED INTERVAL							
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME
5-17	0430	0.01	5-17	0850	0.01	5-17	1635
5-17	0435	0.02	5-17	0855	0.01	5-17	1650
5-17	0515	0.01	5-17	1035	0.01	5-17	1705
5-17	0520	0.03	5-17	1040	0.01	5-17	1710
5-17	0535	0.01	5-17	1055	0.01	5-17	1715
5-17	0540	0.01	5-17	1100	0.01	5-17	1735
5-17	0550	0.01	5-17	1400	0.01	5-17	1740
5-17	0555	0.01	5-17	1405	0.01	5-17	1805
5-17	0600	0.01	5-17	1410	0.02	5-17	1810
5-17	0605	0.01	5-17	1415	0.02	5-17	1825
5-17	0615	0.01	5-17	1420	0.01	5-17	1830
5-17	0620	0.01	5-17	1425	0.02	5-17	1900
5-17	0625	0.01	5-17	1430	0.01	5-17	1905
5-17	0630	0.01	5-17	1435	0.02	5-17	2025
5-17	0635	0.02	5-17	1440	0.01	5-17	2030
5-17	0640	0.01	5-17	1445	0.01	5-17	2105
5-17	0645	0.01	5-17	1450	0.01	5-17	2110
5-17	0650	0.01	5-17	1455	0.01	5-17	2130
5-17	0655	0.01	5-17	1500	0.01	5-17	2135
5-17	0700	0.01	5-17	1505	0.01	5-17	2155
5-17	0705	0.01	5-17	1510	0.01	5-17	2200
5-17	0720	0.01	5-17	1515	0.01	5-17	2220
5-17	0725	0.01	5-17	1525	0.01	5-17	2235
5-17	0805	0.01	5-17	1530	0.01	5-17	2250
5-17	0810	0.01	5-17	1535	0.01	5-17	2345
5-17	0815	0.01	5-17	1540	0.01		
5-17	0820	0.01	5-17	1545	0.01		
5-17	0825	0.01	5-17	1605	0.03	5-18	0040
5-17	0830	0.01	5-17	1610	0.01	5-18	0045
			5-17	1625	0.03		
			5-17	1630	0.01		

**STORM TOTAL = 1.07**

Table 321.--Rainfall data, May 28-29, 1981, for station  
394028104560201 Harvard Gulch at Bethesda Hospital, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-28	0255	0.01	5-28	2230	0.02
5-28	0300	0.02			
5-28	0310	0.01			
5-28	0315	0.01	5-29	0125	0.01
5-28	0320	0.01	5-29	0130	0.03
5-28	0920	0.01	5-29	0135	0.01
5-28	0925	0.01	5-29	0145	0.03
5-28	1415	0.12	5-29	0150	0.01
5-28	1420	0.55	5-29	0155	0.01
5-28	1425	0.41	5-29	0200	0.02
5-28	1430	0.03	5-29	0205	0.02
5-28	1435	0.01	5-29	0210	0.02
5-28	1440	0.01	5-29	0235	0.03
5-28	1525	0.12	5-29	0240	0.01
5-28	1530	0.04	5-29	0245	0.01
5-28	1535	0.01	5-29	0250	0.02
5-28	2215	0.01	5-29	0300	0.04
5-28	2220	0.03	5-29	0305	0.01
5-28	2225	0.01	5-29	0310	0.02
			5-29	0315	0.04
			5-29	0320	0.03
			5-29	0325	0.04
			5-29	0330	0.02
			5-29	0335	0.04
			5-29	0340	0.03
			5-29	0345	0.02
			5-29	0350	0.02
			5-29	0355	0.02
			5-29	0400	0.01
			5-29	0405	0.01
			5-29	0410	0.02
			5-29	0440	0.01
			5-29	0445	0.01
			5-29	1050	0.01
			5-29	1055	0.01
			5-29	1100	0.02
			5-29	1105	0.01
			5-29	1130	0.03
			5-29	1135	0.01
			5-29	1140	0.01

STORM TOTAL = 2.16

Table 322.--Rainfall data, July 26, 1981, for station  
394028104560201 Harvard Gulch at Bethesda Hospital, at Denver

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
7-26	1955	0.03	7-26	2040	0.02
7-26	2000	0.01	7-26	2045	0.02
7-26	2005	0.04	7-26	2050	0.01
7-26	2010	0.03	7-26	2105	0.01
7-26	2015	0.01	7-26	2110	0.04
7-26	2020	0.02	7-26	2115	0.01
7-26	2025	0.02	7-26	2120	0.01
7-26	2030	0.01	7-26	2125	0.02
7-26	2035	0.02	7-26	2130	0.01
			7-26	2135	0.01
			7-26	2200	0.01
			7-26	2310	0.02
			7-26	2315	0.02
			7-26	2320	0.01
			7-26	2325	0.01
			7-26	2330	0.01
			7-26	2335	0.02
			7-26	2340	0.01

STORM TOTAL = 0.46



Table 323.--Rainfall data, July 26, 1981, for station  
394204105085401 851 South Arbutus at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
7-26	0030	0.01	7-26	1950	0.01
7-26	1850	0.01	7-26	2000	0.01
7-26	1900	0.01	7-26	2005	0.01
7-26	1905	0.01	7-26	2015	0.01
7-26	1910	0.06	7-26	2020	0.01
7-26	1915	0.15	7-26	2030	0.01
7-26	1920	0.16	7-26	2035	0.01
7-26	1925	0.20	7-26	2040	0.01
7-26	1930	0.12	7-26	2045	0.01
7-26	1935	0.02	7-26	2125	0.01
7-26	1940	0.01	7-26	2135	0.01
7-26	1945	0.01	7-26	2205	0.01
			7-26	2215	0.01
			7-26	2225	0.01
			7-26	2235	0.01
			7-26	2240	0.01
			7-26	2245	0.01
			7-26	2310	0.01
			7-26	2315	0.01
			7-26	2320	0.01
			7-26	2325	0.01
			7-26	2330	0.01
			7-26	2335	0.01
			7-26	2340	0.01

STORM TOTAL = 1.01

Table 324.--Rainfall data, April 3, 1981, for station  
394221105072901 11310 West Glennon Drive at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
4-03	1040	0.01	4-03	1120	0.01
4-03	1045	0.01	4-03	1130	0.01
4-03	1055	0.01	4-03	1135	0.01
4-03	1105	0.01	4-03	1145	0.01
			4-03	1155	0.01
			4-03	1210	0.01
			4-03	1245	0.01
			4-03	1310	0.01
			4-03	1355	0.01
			4-03	1500	0.01

STORM TOTAL = 0.14

Table 325.--Rainfall data, May 3, 1981, for station  
394221105072901 11310 West Glennon Drive at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL

DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-03	0205	0.01	5-03	0340	0.01	5-03	1310	0.01
5-03	0210	0.01	5-03	0345	0.01	5-03	1315	0.01
5-03	0215	0.01	5-03	0355	0.01	5-03	1320	0.01
5-03	0225	0.01	5-03	0400	0.01	5-03	1615	0.01
5-03	0230	0.01	5-03	0405	0.01	5-03	1620	0.01
5-03	0235	0.02	5-03	0410	0.01	5-03	1625	0.01
5-03	0240	0.02	5-03	0415	0.01	5-03	2130	0.01
5-03	0245	0.01	5-03	0425	0.01	5-03	2200	0.01
5-03	0250	0.01	5-03	1250	0.03	5-03	2205	0.01
5-03	0300	0.01	5-03	1300	0.01	5-03	2210	0.01
5-03	0305	0.01	5-03	1305	0.01	5-03	2235	0.01

STORM TOTAL = 0.37

Table 326.--Rainfall data, May 5, 1981, for station  
394221105072901 11310 West Glennon Drive at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL

DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-05	1635	0.01	5-05	1705	0.01	5-05	1725	0.01
5-05	1645	0.01	5-05	1710	0.01	5-05	1740	0.01
			5-05	1715	0.01			
			5-05	1720	0.01			

STORM TOTAL = 0.08

Table 327.--Rainfall data, May 12, 1981, for station  
394221105072901 11310 West Glennon Drive at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL

DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-12	2025	0.01	5-12	2120	0.01	5-12	2300	0.01
5-12	2030	0.01	5-12	2125	0.01	5-12	2305	0.01
5-12	2035	0.02	5-12	2130	0.01	5-12	2310	0.01
5-12	2040	0.02	5-12	2135	0.01	5-12	2320	0.01
5-12	2045	0.01	5-12	2140	0.01	5-12	2325	0.01
5-12	2050	0.01	5-12	2145	0.01	5-12	2330	0.01
5-12	2100	0.02	5-12	2200	0.01	5-12	2335	0.01
5-12	2105	0.01	5-12	2215	0.01	5-12	2340	0.01
5-12	2110	0.01	5-12	2225	0.01	5-12	2345	0.01
5-12	2115	0.01	5-12	2235	0.01	5-12	2355	0.01
			5-12	2245	0.01			

STORM TOTAL = 0.34

Table 328.--Rainfall data, May 16-17, 1981, for station  
394221105072901 11310 West Glennon Drive at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-16	0955	0.01	5-17	0635	0.01
5-16	1005	0.01	5-17	0640	0.01
5-16	1030	0.01	5-17	0645	0.01
5-16	1230	0.01	5-17	0650	0.01
5-16	1250	0.01	5-17	0655	0.01
5-16	1300	0.01	5-17	0700	0.01
5-16	1310	0.01	5-17	0710	0.01
5-16	1320	0.01	5-17	0715	0.01
5-16	1335	0.01	5-17	0720	0.01
5-16	1350	0.01	5-17	0725	0.01
5-16	1420	0.01	5-17	0735	0.01
5-16	1500	0.01	5-17	0740	0.01
			5-17	0750	0.01
			5-17	0755	0.01
5-17	0505	0.01	5-17	0800	0.01
5-17	0515	0.01	5-17	0810	0.01
5-17	0520	0.01	5-17	0820	0.01
5-17	0530	0.01	5-17	0830	0.01
5-17	0540	0.01	5-17	0840	0.01
5-17	0545	0.01	5-17	0850	0.01
5-17	0550	0.01	5-17	0900	0.01
5-17	0555	0.02	5-17	0910	0.01
5-17	0600	0.01	5-17	0935	0.01
5-17	0610	0.01	5-17	1015	0.01
5-17	0615	0.01	5-17	1035	0.01
5-17	0625	0.01	5-17	1145	0.01
5-17	0630	0.01	5-17	1205	0.01
			5-17	1230	0.01
			5-17	1420	0.01
			5-17	1425	0.01
			5-17	1430	0.01
			5-17	1440	0.01
			5-17	1450	0.01
			5-17	1455	0.01
			5-17	1510	0.01
			5-17	1530	0.01
			5-17	1555	0.01
			5-17	1620	0.01
			5-17	1635	0.01
			5-17	1645	0.01
			5-17	1650	0.01
			5-17	1700	0.01
			5-17	1705	0.01
			5-17	1710	0.01
			5-17	1715	0.01
			5-17	1725	0.01
			5-17	1745	0.01
			5-17	1805	0.01
			5-17	1820	0.01
			5-17	1835	0.01
			5-17	1855	0.01
			5-17	1940	0.01
			5-17	2040	0.01
			5-17	2140	0.01
			5-17	2230	0.01
			5-17	2255	0.01

STORM TOTAL = 0.82

Table 329.--Rainfall data, May 27-29, 1981, for station  
394221105072901 11310 West Glennon Drive at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-27	0030	0.01	5-28	0255	0.02
5-27	0415	0.01	5-28	0305	0.01
5-27	2135	0.08	5-28	0440	0.01
5-27	2140	0.02	5-28	0940	0.01
5-27	2145	0.15	5-28	1320	0.01
5-27	2150	0.23	5-28	1330	0.01
5-27	2155	0.07	5-28	1335	0.06
5-27	2200	0.01	5-28	1340	0.06
			5-28	1345	0.09
			5-28	1350	0.10
5-28	0205	0.01	5-28	1355	0.02
5-28	0215	0.01	5-28	1400	0.03
5-28	0230	0.01	5-28	1405	0.01
5-28	0235	0.04	5-28	1450	0.01
5-28	0240	0.03	5-28	2105	0.01
5-28	0245	0.02	5-28	2115	0.02
5-28	0250	0.01	5-28	2120	0.01
			5-28	2125	0.01
			5-29	0205	0.01
			5-29	0215	0.02
			5-29	0220	0.01
			5-29	0225	0.01
			5-29	0235	0.01
			5-29	0320	0.01
			5-29	0325	0.01
			5-29	0345	0.01
			5-29	0355	0.01
			5-29	0405	0.01
			5-29	0930	0.01

STORM TOTAL = 1.37

Table 330.--Rainfall data, April 3, 1981, for station  
394251105084901 Zinnia Way near Warren Occupational Technical Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
4-03	1040	0.01	4-03	1155	0.01
4-03	1130	0.01	4-03	1210	0.01
4-03	1135	0.01	4-03	1225	0.01
4-03	1145	0.01	4-03	1300	0.01
			4-03	1320	0.01
			4-03	1350	0.01
			4-03	1405	0.01
			4-03	1445	0.01

STORM TOTAL = 0.12

Table 331.--Rainfall data, May 3, 1981, for station  
394251105084901 Zinnia Way near Warren Occupational Technical Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-03	0150	0.01	5-03	0235	0.02
5-03	0155	0.01	5-03	0240	0.01
5-03	0200	0.01	5-03	0245	0.01
5-03	0205	0.01	5-03	0250	0.01
5-03	0210	0.01	5-03	0300	0.01
5-03	0215	0.01	5-03	0315	0.01
5-03	0220	0.01	5-03	0340	0.01
5-03	0225	0.01	5-03	0350	0.01
5-03	0230	0.02	5-03	0355	0.01
			5-03	0400	0.01
			5-03	0405	0.01

STORM TOTAL = 0.31

Table 332.--Rainfall data, May 5, 1981, for station  
394251105084901 Zinnia Way near Warren Occupational Technical Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL					
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-05	1635	0.01	5-05	1705	0.01
5-05	1650	0.01	5-05	1710	0.01
			5-05	1715	0.01
			5-05	1720	0.01
			5-05	1725	0.01
			5-05	1735	0.01

STORM TOTAL = 0.08

Table 333.--Rainfall data, May 12-13, 1981, for station  
394251105084901 Zinnia Way near Warren Occupational Technical Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL

DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-12	2025	0.01	5-12	2120	0.01	5-12	2310	0.01
5-12	2030	0.01	5-12	2125	0.01	5-12	2330	0.01
5-12	2035	0.02	5-12	2130	0.01	5-12	2335	0.01
5-12	2040	0.02	5-12	2135	0.01	5-12	2340	0.01
5-12	2045	0.02	5-12	2140	0.01	5-12	2345	0.01
5-12	2050	0.01	5-12	2150	0.01	5-12	2400	0.01
5-12	2055	0.01	5-12	2200	0.01			
5-12	2100	0.01	5-12	2215	0.01			
5-12	2105	0.01	5-12	2230	0.01	5-13	0010	0.01
5-12	2110	0.01	5-12	2240	0.01	5-13	0030	0.01
5-12	2115	0.01	5-12	2250	0.01	5-13	0055	0.01
			5-12	2300	0.01			

STORM TOTAL = 0.35

Table 334.--Rainfall data, May 16-18, 1981, for station  
394251105084901 Zinnia Way near Warren Occupational Technical Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL

DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE	TIME	RAINFALL
5-16	1025	0.01	5-17	0645	0.01	5-17	1535	0.01
5-16	1045	0.01	5-17	0650	0.01	5-17	1550	0.01
5-16	1115	0.01	5-17	0655	0.01	5-17	1610	0.01
5-16	1220	0.01	5-17	0700	0.01	5-17	1620	0.01
5-16	1225	0.01	5-17	0705	0.01	5-17	1630	0.01
5-16	1310	0.01	5-17	0715	0.01	5-17	1640	0.01
5-16	1320	0.01	5-17	0720	0.01	5-17	1645	0.01
5-16	1335	0.01	5-17	0725	0.01	5-17	1650	0.01
5-16	1355	0.01	5-17	0730	0.01	5-17	1700	0.01
5-16	1600	0.01	5-17	0735	0.01	5-17	1705	0.01
			5-17	0745	0.01	5-17	1715	0.01
			5-17	0755	0.01	5-17	1720	0.01
5-17	0515	0.01	5-17	0800	0.01	5-17	1735	0.01
5-17	0520	0.01	5-17	0805	0.01	5-17	1755	0.01
5-17	0525	0.01	5-17	0815	0.01	5-17	1810	0.01
5-17	0530	0.01	5-17	0830	0.01	5-17	1825	0.01
5-17	0535	0.01	5-17	0855	0.01	5-17	1840	0.01
5-17	0540	0.01	5-17	0910	0.01	5-17	1900	0.01
5-17	0545	0.02	5-17	0920	0.01	5-17	1945	0.01
5-17	0550	0.01	5-17	0955	0.01	5-17	2035	0.01
5-17	0555	0.01	5-17	1025	0.01	5-17	2120	0.01
5-17	0600	0.01	5-17	1130	0.01	5-17	2210	0.01
5-17	0605	0.01	5-17	1215	0.01	5-17	2300	0.01
5-17	0610	0.01	5-17	1235	0.01	5-17	2400	0.01
5-17	0620	0.01	5-17	1415	0.01			
5-17	0625	0.01	5-17	1425	0.01			
5-17	0630	0.01	5-17	1430	0.01	5-18	0040	0.01
5-17	0635	0.01	5-17	1440	0.01	5-18	0120	0.01
5-17	0640	0.01	5-17	1450	0.01	5-18	0155	0.01
			5-17	1455	0.01			
			5-17	1510	0.01			

STORM TOTAL = 0.86

Table 335.--Rainfall data, May 27-29, 1981, for station  
394251105084901 Zinnia Way near Warren Occupational Technical Center, at Lakewood

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RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE
5-27	0045	0.01	5-28	0250	0.02	5-28
5-27	0050	0.01	5-28	0255	0.01	2105
5-27	0735	0.01	5-28	0300	0.01	2110
5-27	1435	0.01	5-28	0305	0.01	2115
5-27	2135	0.05	5-28	0420	0.01	2120
5-27	2140	0.12	5-28	0435	0.01	2140
5-27	2145	0.13	5-28	0440	0.01	
5-27	2150	0.01	5-28	0745	0.01	5-29
			5-28	1335	0.01	0200
			5-28	1340	0.02	0210
5-28	0215	0.01	5-28	1345	0.03	0215
5-28	0220	0.02	5-28	1350	0.02	0220
5-28	0225	0.01	5-28	1540	0.01	0235
5-28	0230	0.01	5-28	2025	0.01	0300
5-28	0235	0.02	5-28	2035	0.01	0355
5-28	0240	0.03	5-28	2055	0.01	0600
5-28	0245	0.05	5-28	2100	0.01	1055
					0.01	1500

STORM TOTAL = 0.90

Table 336.--Rainfall data, July 26, 1981, for station  
394251105084901 Zinnia Way near Warren Occupational Technical Center, at Lakewood

RAINFALL, IN INCHES, DURING INDICATED INTERVAL						
DATE	TIME	RAINFALL	DATE	TIME	RAINFALL	DATE
7-26	1905	0.01	7-26	1955	0.01	7-26
7-26	1910	0.03	7-26	2005	0.01	2220
7-26	1915	0.04	7-26	2010	0.01	2240
7-26	1920	0.03	7-26	2030	0.02	2250
7-26	1925	0.26	7-26	2035	0.01	2315
7-26	1930	0.17	7-26	2040	0.03	2320
7-26	1935	0.05	7-26	2045	0.01	2325
7-26	1940	0.01	7-26	2050	0.01	2330
7-26	1945	0.01	7-26	2125	0.01	2335
7-26	1950	0.01	7-26	2145	0.01	2340
			7-26	2210	0.01	2345

STORM TOTAL = 0.90

## WATER-QUALITY DATA FOR THE SOUTH PLATTE RIVER STUDY

Storm-runoff water-quality data for the tributaries section of the South Platte River study are presented for the following stations:

Station number and name	Table
06711500 Bear Creek at mouth-----	337
06711575 Harvard Gulch at Harvard Park-----	338
06711610 Sanderson Gulch at mouth-----	339
06711622 Weir Gulch at mouth-----	340
06711800 Lakewood Gulch at mouth-----	341

Ambient water-quality data for the tributaries section of the South Platte River study are presented for the following stations:

Station number and name	Table
06711500 Bear Creek at mouth-----	342
06711575 Harvard Gulch at Harvard Park-----	343
06711610 Sanderson Gulch at mouth-----	344
06711622 Weir Gulch at mouth-----	345
06711800 Lakewood Gulch at mouth-----	346

Water-quality data for the main-stem section of the South Platte River study are presented for the following stations:

Station number and name	Table
06710000 South Platte River at Littleton-----	347
06711590 South Platte River at Florida Avenue-----	348
06713500 Cherry Creek at Denver-----	349
06714000 South Platte River at Denver-----	350
06714130 South Platte River at 50th Avenue-----	351



Definitions of abbreviations used in the above tables are:

0.7 UM-MF=0.7-micrometer membrane filter  
BOD=biochemical oxygen demand  
CAR=carbonaceous  
100 ML=per 100 milliliters  
CENT=degree Celsius  
CFS=cubic foot per second  
CNDUCTVY=conductivity  
COD=chemical oxygen demand  
COLS./100 ML=colonies per 100 milliliters  
DEG.C.=degree Celsius  
DISS=dissolved  
DO=dissolved oxygen  
FEC=fecal  
HI=high  
INST=instantaneous  
KJEL=Kjeldahl  
M-FCAGAR=M-FC agar  
MICROMHO=micromho per centimeter at 25° Celsius  
MG/L=milligram per liter  
MPNECMED=most probable number using EC medium  
NFLT=nonfilterable  
ORG=organic  
ORTH0=orthophosphate  
SU=standard unit  
T=total  
TOT=total  
UG/L=microgram per liter  
UMHOS=micromhos per centimeter at 25° Celsius

Storm-runoff water-quality data were collected for the following stations:

06710000 South Platte River at Littleton

July 11-12, 1980	April 3-4, 1981	May 16-18, 1981
August 14-15, 1980	May 3-4, 1981	May 27-29, 1981
September 8-9, 1980	May 12-13, 1981	July 25-27, 1981
March 3-6, 1981		

06711590 South Platte River at Florida Avenue

May 3-4, 1981	May 16-18, 1981	July 26-27, 1981
May 11-13, 1981	May 27-29, 1981	

06713500 Cherry Creek at Denver

July 11-12, 1980	April 3-4, 1981	May 16-18, 1981
August 14-15, 1980	May 3-4, 1981	May 28-30, 1981
September 8-10, 1980	May 12-13, 1981	July 26-27, 1981
March 3-6, 1981		

06714000 South Platte River at Denver

July 11-12, 1980	April 3-4, 1981	May 16-19, 1981
August 14-15, 1980	May 3-5, 1981	May 27-29, 1981
September 8-9, 1980	May 12-13, 1981	July 26-27, 1981
March 3-6, 1981		

06714130 South Platte River at 50th Avenue

July 11-12, 1980	April 3-4, 1981	May 16-18, 1981
August 14-15, 1980	May 3-5, 1981	May 28-30, 1981
September 8-9, 1980	May 12-13, 1981	July 26-27, 1981
March 3-6, 1981		

The remaining water-quality data presented are from analyses of ambient samples.

Table 337.--Storm-runoff water-quality data for station 06711500  
Bear Creek at mouth, at Sheridan

[E indicates estimated]

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
APR 29...	0930	E7.4	--	8.3	22	--	129	.46	.040	1.4	1.40
AUG 14...	1530	45	450	8.4	30	--	54	.51	.080	.92	1.00
14...	1540	64	380	8.4	55	4400	396	.59	.010	1.5	1.50
14...	1550	362	260	7.8	210	--	822	.63	.250	4.5	4.70
14...	1610	647	200	8.0	58	47000	192	.86	.270	1.2	1.50
14...	1625	483	190	7.7	130	33000	610	.80	.310	2.0	2.30
14...	1658	229	250	7.9	130	37000	674	.97	.390	2.9	3.30
14...	2005	77	370	8.4	45	9000	316	.86	.280	1.1	1.40

DATE	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
APR 29...	1.9	8.2	.160	.030	1	9	4800	11	70	40	9.9
AUG 14...	1.5	6.7	.080	.000	1	4	530	5	60	20	8.7
14...	2.1	9.3	.370	.020	1	17	9600	100	370	100	51
14...	5.3	24	.860	.010	3	39	18000	530	840	340	20
14...	2.4	10	.250	.020	1	15	2800	170	130	110	44
14...	3.1	14	.630	.090	2	33	21000	300	680	220	39
14...	4.3	19	.940	.130	2	45	2600	230	830	310	40
14...	2.3	10	.290	.060	1	38	7200	70	260	400	16

Table 337.--Storm-runoff water-quality data for station 06711500  
Bear Creek at mouth, at Sheridan--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
MAR										
04...	1530	362	94	295	.69	.200	1.3	1.50	2.2	9.7
04...	1750	310	44	66	.66	.180	.81	.99	1.7	7.3
04...	1950	280	32	37	.80	.140	1.6	1.70	2.5	11
04...	2200	265	34	48	.95	.100	1.6	1.70	2.7	12
04...	2306	256	23	41	1.1	.060	.73	.79	1.9	8.4
MAY										
28...	1330	262	28	40	--	--	--	.94	--	--
28...	1425	447	49	172	--	--	--	1.50	--	--
28...	1445	359	110	1010	.70	.300	2.6	2.90	3.6	16
28...	1545	328	51	596	.72	.190	1.9	2.10	2.8	12

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTH0, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PH)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
MAR									
04...	.280	.050	0	20	4300	190	260	100	18
04...	.150	.050	0	7	2300	87	130	50	25
04...	.180	.050	0	6	1900	51	130	40	9.1
04...	.160	.040	0	5	1500	40	120	20	14
04...	.100	.020	0	10	1200	27	110	30	7.1
MAY									
28...	.120	.060	0	7	2300	7	140	10	12
28...	.270	.070	0	12	5300	48	260	60	15
28...	.980	.030	0	90	45000	160	1100	250	30
28...	.640	.030	0	45	27000	70	540	100	13

Table 338.--Storm-runoff water-quality data for station  
06711575 Harvard Gulch at Harvard Park, at Denver

[E indicates estimated; K indicates nonideal colony count]

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
AUG											
14...	1500	2.5	820	8.2	32	K11000	66	.83	.260	1.1	1.40
14...	1535	13	430	6.7	340	--	752	.00	.000	8.8	8.80
14...	1600	86	210	6.9	210	K60000	502	.00	.000	4.0	4.00
14...	1610	105	165	7.4	240	K6000	554	.00	.000	5.0	5.00
14...	1625	239	165	7.1	230	K6000	642	.00	.700	6.0	6.70
14...	1705	122	160	6.7	110	K190000	404	.43	.150	2.1	2.20
14...	1900	19	210	6.7	46	51000	48	.55	.310	1.1	1.40
14...	1930	15	250	7.1	45	11000	120	.53	.200	1.3	1.50

DATE	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
AUG											
14...	2.2	9.9	.280	.270	1	5	250	7	80	20	12
14...	8.8	39	.900	.200	3	39	13000	490	2100	440	86
14...	4.0	18	.590	.050	3	33	11000	410	960	350	52
14...	5.0	22	.550	.050	3	34	9800	410	860	330	47
14...	6.7	30	.830	.230	3	48	16000	630	1200	510	32
14...	2.6	12	.360	.110	2	18	5100	220	190	150	29
14...	2.0	8.6	.250	.210	1	8	1100	34	100	50	16
14...	2.0	9.0	.240	.180	1	8	1100	39	120	60	16

Table 338.--Storm-runoff water-quality data for station  
06711575 Harvard Gulch at Harvard Park, at Denver--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
MAR										
04...	1510	E87	99	176	1.7	.440	2.0	2.40	4.1	18
04...	1700	E82	110	286	1.6	.410	2.1	2.50	4.1	18
04...	1900	E70	79	220	1.9	.440	.66	1.10	3.0	13
04...	2130	E37	56	48	.50	.410	1.2	1.60	2.1	9.3
04...	2247	E30	49	46	.59	.440	.96	1.40	2.0	8.8

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
MAR									
04...	.490	.450	1	30	4800	330	410	170	26
04...	.610	.440	1	30	5400	310	240	160	30
04...	.340	.130	0	30	4100	260	170	120	18
04...	.260	.130	1	10	2200	120	110	100	17
04...	.240	.150	0	9	1700	93	110	60	15

Table 339.--Storm-runoff water-quality data for station  
06711610 Sanderson Gulch at mouth, at Denver

[K indicates nonideal colony count]

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	
DATE	TIME											
AUG												
14...	1525	1.3	810	9.0	34	K1000	45	1.0	.000	1.3	1.30	
14...	1610	25	340	8.3	220	K140000	1470	.43	.140	6.7	6.80	
14...	1620	60	330	7.9	220	32000	1400	.55	.890	8.3	9.20	
14...	1635	217	270	7.8	430	K70000	1400	.54	.830	8.6	9.40	
14...	1655	324	200	7.8	400	K6000	2540	.42	.340	15	15.0	
14...	1740	115	160	8.0	220	--	1230	.74	.310	3.3	3.60	
14...	1955	14	700	8.0	75	K73000	332	2.5	.900	1.7	2.60	
		NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
DATE												
AUG												
14...	2.3	10		.150	.010	1	4	180	5	40	10	12
14...	7.2	32		1.50	.080	3	50	29000	540	2000	470	95
14...	9.8	43		2.60	.510	3	70	29000	560	1900	480	43
14...	9.9	44		2.20	.140	3	120	46000	820	2000	740	95
14...	15	68		2.60	.100	3	200	81000	1400	2900	1100	90
14...	4.3	19		1.60	.150	2	63	31000	540	1200	430	48
14...	5.1	23		.520	.100	1	19	9100	110	670	110	27

Table 339.--Storm-runoff water-quality data for station  
06711610 Sanderson Gulch at mouth, at Denver--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
MAR										
04...	1320	25	330	720	.78	.270	1.0	1.30	2.1	9.2
04...	1457	94	640	2520	.37	.360	1.9	2.30	2.7	12
04...	1645	55	130	448	1.1	1.10	1.5	2.60	3.7	16
04...	1840	18	89	288	1.6	.960	1.4	2.40	4.0	18
04...	2050	12	65	212	2.5	.980	1.3	2.30	4.8	21
04...	2230	10	47	125	2.8	.850	.95	1.80	4.6	20
MAY										
28...	1435	93	170	718	.58	.290	5.4	5.70	6.3	28
28...	1440	148	230	1230	.61	.270	4.9	5.20	5.8	26
28...	1500	130	250	588	.63	.430	3.6	4.00	4.6	20
28...	1609	37	180	664	.68	.300	5.0	5.30	6.0	26
28...	1730	14	90	600	.81	.380	2.4	2.80	3.6	16

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTH0, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
MAR									
04...	.990	.080	3	70	22000	750	970	510	48
04...	3.20	.170	4	130	52000	200	2200	810	78
04...	1.60	.260	2	50	14000	430	700	260	38
04...	.650	.170	1	30	11000	300	480	160	26
04...	.460	.160	0	20	6900	230	350	110	34
04...	.330	.100	0	20	4300	180	250	80	19
MAY									
28...	.820	.090	0	65	27000	400	780	330	32
28...	.770	.070	0	95	39000	530	1300	490	35
28...	.350	.080	1	40	13000	230	430	200	25
28...	.610	.130	0	65	25000	410	780	340	32
28...	.540	.090	0	35	12000	200	420	150	25



Table 340.--Storm-runoff water-quality data for station  
06711622 Weir Gulch at mouth, at Denver

[K indicates nonideal colony count]

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
AUG											
14...	1605	10	900	8.0	100	31000	316	1.1	.330	3.3	3.60
14...	1613	28	335	7.5	450	K6000	1390	.00	.600	12	13.0
14...	1615	30	310	7.9	350	K6000	1360	.00	.260	11	11.0
14...	1637	60	250	7.8	260	--	1300	.00	.230	7.7	7.90
14...	1720	100	400	7.8	170	--	928	.69	.140	4.1	4.20
14...	2030	26	380	7.7	86	51000	406	1.0	.110	2.8	2.90

DATE	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
AUG											
14...	4.7	21	.460	.020	1	38	14000	240	2100	250	27
14...	13	58	2.70	.050	6	220	61000	1800	3900	1400	100
14...	11	49	2.30	.030	5	210	60000	1300	3200	1200	92
14...	7.9	35	1.10	.050	3	110	36000	1000	1700	920	78
14...	4.9	22	.970	.060	2	90	30000	470	1300	470	48
14...	3.9	17	.480	.100	1	38	16000	210	690	230	30

Table 340.--Storm-runoff water-quality data for station  
06711622 Weir Gulch at mouth, at Denver--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
MAR										
04...	1437	11	300	462	.75	.520	1.8	2.30	3.1	14
04...	1635	7.5	190	768	1.6	1.40	.90	2.30	3.9	17
04...	1823	7.0	220	532	1.7	1.20	.60	1.80	3.5	16
04...	2030	11	290	286	3.3	.360	1.0	1.40	4.7	21
04...	2218	7.5	110	485	1.9	1.20	1.0	2.20	4.1	18
MAY										
28...	1428	20	440	690	.70	.250	9.3	9.50	10	45
28...	1451	28	140	305	1.1	.090	3.1	3.20	4.3	19
28...	1521	41	170	2270	1.0	.150	4.8	4.90	5.9	26
28...	1611	25	110	660	.92	.140	3.4	3.50	4.4	20
28...	1741	18	78	186	.95	.400	2.1	2.50	3.5	15

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
MAR									
04...	2.90	.190	2	80	41000	660	1400	630	54
04...	.990	.320	1	60	27000	470	890	410	60
04...	.980	.300	1	40	21000	380	730	310	8.3
04...	1.60	.520	2	50	23000	390	820	320	33
04...	.890	.360	1	40	20000	340	700	270	14
MAY									
28...	1.60	.080	2	120	40000	2000	1100	1100	79
28...	.760	.020	0	55	19000	410	690	350	42
28...	9.90	.100	0	80	34000	390	1400	470	49
28...	.910	.040	0	50	23000	240	770	280	25
28...	.590	.100	0	30	14000	150	490	170	16

Table 341.--Storm-runoff water-quality data for station  
06711800 Lakewood Gulch at mouth, at Denver

[E indicates estimated; K indicates nonideal colony count]

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
AUG											
14...	1545	17	930	8.6	23	2700	13	2.2	.000	1.1	1.10
14...	1605	24	480	8.0	280	--	1320	.22	.040	3.8	3.80
14...	1625	51	420	8.0	370	K60000	1390	.00	.000	11	11.0
14...	1640	65	350	7.9	79	--	1530	.08	.270	7.9	8.20
14...	1650	86	240	7.9	310	--	1860	.27	.220	4.0	4.20
14...	1725	46	350	7.9	310	K6000	1780	.73	.130	5.9	6.00
14...	2000	34	450	7.8	450	K75000	750	1.5	.140	2.5	2.60

DATE	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
AUG											
14...	3.3	15	.170	.020	1	11	630	15	50	60	11
14...	4.0	18	1.90	.090	3	140	41000	810	1600	910	120
14...	11	49	2.00	.150	6	180	45000	900	2700	1300	110
14...	8.3	37	1.90	.280	5	170	51000	820	2400	1100	120
14...	4.5	20	2.40	.150	4	160	58000	800	2400	1000	87
14...	6.7	30	2.10	.070	1	380	61000	720	2600	1100	72
14...	4.1	18	1.30	.080	2	100	28000	310	1300	490	66

Table 341.--Storm-runoff water-quality data for station  
06711800 Lakewood Gulch at mouth, at Denver--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)
MAR										
04...	1430	E65	530	744	3.2	.330	2.1	2.40	5.6	25
04...	1615	E65	43	1250	4.8	.310	1.4	1.70	6.5	29
04...	1815	F20	350	516	1.1	.260	1.3	1.60	2.7	12
04...	2020	F10	300	226	1.0	.280	1.2	1.50	2.5	11
04...	2212	ES.0	150	655	1.9	.270	2.3	2.60	4.5	20
MAY										
28...	1435	59	300	1220	.70	.180	8.1	8.30	9.0	40
28...	1520	29	190	410	.67	.190	3.6	3.80	4.5	20
28...	1640	91	330	4130	1.1	.330	7.5	7.80	8.9	39
28...	1730	90	270	4040	.87	.140	4.8	4.90	5.8	26
28...	1830	28	190	2660	.90	.140	7.0	7.10	8.0	35

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
MAR									
04...	3.50	.550	4	160	55000	950	2400	950	89
04...	1.90	.340	3	100	37000	580	1600	610	59
04...	2.40	.100	4	130	41000	490	2100	690	64
04...	.970	.120	2	70	25000	370	1200	400	43
04...	.700	.110	1	50	18000	300	750	260	30
MAY									
28...	.650	.110	0	120	44000	630	1400	710	54
28...	.990	.020	0	70	25000	460	720	430	82
28...	3.50	.050	0	380	140000	680	4100	1200	56
28...	2.30	.050	1	450	140000	590	4400	1100	32
28...	3.00	.040	0	210	99000	350	2600	690	25

Table 342.--Ambient water-quality data for station  
06711500 Bear Creek at mouth, at Sheridan

[J indicates estimated; K indicates less than; N indicates not requested]

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CEN	STREAM FLOW, INST-CFS	CONDUCTIVITY AT 25C MICROMHU	DO MPORE MG/L	COD LOWLEVEL MG/L	CUD HI LEVEL MG/L	PH SU	RESIDUE TOT NFLT MG/L	NH3+NH4- N TOTAL MG/L	NO2-N TOTAL MG/L
80/04/29	09 30		10.0	292	258	13.2		22	8.30	129	0.040	
80/05/13	09 45		9.0	750	218	13.4		53	8.10	114	0.100	0.010
80/05/28	09 45		12.5	567	140	8.5	20.0		8.10	113	0.100	0.010
80/06/10	09 30		15.0	292	190	8.9	19.0		8.70	24	0.100K	0.010
80/06/24	09 30		18.0	88	170	7.9	16.0		8.20	28	0.090	0.010
80/07/08	10 00		20.5	27	375	9.0	15.0		8.50	146	0.050	0.010
80/07/15	09 30		19.5	39	392	8.9	15.0		8.35	18	0.050K	0.010K
80/07/22	08 00		19.5	21	650	8.6	15.0		8.10	8	0.050K	0.010K
80/07/29	09 45		20.0	21	650	9.4	15.0		8.30	6	0.050K	0.020
80/08/05	09 45		18.0	15	617	8.3	12.0		8.30	11	0.050K	0.010K
80/08/12	09 45		20.5	28	551	8.3	15.0		8.30	8	0.050K	0.010K
80/08/19	09 45		17.0	35	452	9.2	12.0		8.40	10	0.070	0.020
80/08/26	10 00		17.7	26	540	9.3	20.0		8.40	22	0.070	0.020
80/09/02	09 00		13.5	17	589	7.9	4.0		7.80	8	0.050K	0.020
80/09/16	09 15		12.3	20	611	9.8	13.0		7.90	5	0.050K	0.030
80/09/23	09 45		12.4	14	668	9.9	12.0		7.60	5	0.050	0.010
80/09/30	09 45		9.8	13	713	9.5	6.0		7.80	5	0.050K	0.010K
80/10/07	09 45		7.6	10	650	11.2J	12.0		7.70	2	0.050K	0.010K
80/10/14	09 15		10.0	14	727	8.8J	10.0		7.70	4	0.200	0.010K
80/10/21	09 45		8.0	14	735		13.0		7.80	3	0.050K	0.010
80/11/04	10 00		8.5	15	680	11.5	11.0		8.30	4	0.050K	0.010
80/12/02	11 00		3.3	11	695	14.4	8.0		8.20	14	0.050	0.020
80/12/16	10 45		5.0	14	714	12.2	15.0		8.70	10	0.030K	0.010K
80/12/30	10 45		3.4	22	580	11.2	21.0		7.90	14	0.050K	0.010K

Table 342.--Ambient water-quality data for station  
06711500 Bear Creek at mouth, at Sheridan--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	TOT KJEL N MG/L	NO2&NO3 N-TOTAL MG/L	PHOS-TOT P MG/L	T (K) C C MG/L	SODIUM NA, TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD, DISS UG/L	CADMIUM CD, TOT UG/L	COPPER CU, DISS UG/L	COPPER CU, TOT UG/L
80/04/29	09 30		1.400	0.46	0.160	9.9				1		9
80/05/13	09 45		2.800	0.50	0.200	29.0	4.00	9	1K	12	10K	80
80/05/28	09 45		0.600	0.32	0.100	8.0	7.00	8	1K	3	10K	20
80/06/10	09 30		0.800	0.06	0.080	2.0	8.00	12	1K	3	10K	10
80/06/24	09 30		1.500	0.17	0.080	7.0	8.00	6	1K	6	10K	10
80/07/08	10 00		0.500	0.72	0.080	4.0	20.00	15	4K	4	10	130
80/07/15	09 30		0.050	0.66	0.380	6.0	27.00	16	1	2	10K	10K
80/07/22	08 00		1.000	0.72	0.020	16.0	50.00	29	1K	1	10K	10
80/07/29	09 45		0.800	0.89	0.150	6.0	43.00	29	1K	1	10K	10
80/08/05	09 45		0.800	1.17	0.020	5.0	42.00	24	1K	4	10K	10
80/08/12	09 45		1.800	0.84	0.050J	7.0	33.00	24	1K	1	10K	10
80/08/19	09 45		0.500	0.58	0.030	2.0	25.00	18	2K	2	10K	30
80/08/26	10 00		1.000	0.80	0.020K	4.0	29.00	22	1K	4	10K	20
80/09/02	09 00		0.600	1.01	0.020	2.0	34.00	27	1K	1	10K	10
80/09/16	09 15			1.08	0.020	4.0	41.00	27	1K	4	10K	20
80/09/23	09 45		0.700	1.20	0.040	2.0	45.00	26	1K	1	10K	10
80/09/30	09 45		0.700	1.57	0.100	6.0	49.00	34	1K	1K	10K	10
80/10/07	09 45		0.500	1.86	0.040	8.0	54.00	34	1K	1	10K	10
80/10/14	09 15		0.400	1.47	0.020	2.0	47.00	31	1K	1	10K	10
80/10/21	09 45		0.700	1.52	0.050	9.0	51.00	30	1K	1	10K	10
80/11/04	10 00		0.300	1.44	0.020	2.0	48.00	30	1K	1	10K	10
80/12/02	11 00		0.060	1.85	0.050	5.0	54.00	34	1K	6	10K	10
80/12/16	10 45		0.030	1.77	0.020	1.0	49.00	33	1K	1	10K	10
80/12/30	10 45		1.000	1.20	0.030	25.0	38.00	26	6K	6	10K	10

Table 342.--Ambient water-quality data for station  
06711500 Bear Creek at mouth, at Sheridan--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	IRON FE, TOT UG/L	IRON FE, DISS UG/L	LEAD PH, DISS UG/L	LEAD PH, TOT UG/L	MANGNESE MN UG/L	MANGNESE MN, DISS UG/L	ZINC ZN, DISS UG/L	ZINC ZN, TOT UG/L	FEC COLI M-FCAGAR /100ML	FEC COLI MPNECMED /100ML
80/04/29	09 30		4800			11	70.0			40	320	
80/05/13	09 45		6000	140	10K	60	150.0	20.0	10K	430	52	
80/05/28	09 45		2200	150	10K	30	60.0	20.0	10K	80	100	
80/06/10	09 30		520	80	10K	20	40.0	10.0	20K	20	72	
80/06/24	09 30		850	60	10K	20	50.0	10.0K	20K	20	12	
80/07/08	10 00		800	10	10K	20	40.0	40.0K	30	80	150	
80/07/15	09 30		320	10K	10K	20	10.0	10.0K	20K	20	380	
80/07/22	08 00		200	140	10K	10			20K	20	200	
80/07/29	09 45		180	10K	10K	20	40.0	30.0	30K	30	400	
80/08/05	09 45		200	10K	10K	20	50.0	20.0	30K	30	220	
80/08/12	09 45		270	20	10K	30	40.0	30.0	10K	40		
80/08/19	09 45		360	20	10K	10	30.0	20.0	10K	50	20	
80/08/26	10 00		590	20	10K	20	60.0	30.0	30	50	1	
80/09/02	09 00		260	20	10K	40	50.0	30.0	30	40	0.5	
80/09/16	09 15		240	10K	10K	30	50.0	10.0K	50K	50	67	
80/09/23	09 45		180	10K	10K	10	50.0	10.0K	40K	40	17	
80/09/30	09 45		210	10K	10K	10	60.0	30.0	30	90	350	
80/10/07	09 45		120	10K	10K	10	70.0	50.0	30K	30	300	
80/10/14	09 15		210	10K	10K	10	70.0	50.0	70K	70	230	
80/10/21	09 45		130	10K	20K	20	60.0	40.0	40K	40	370	
80/11/04	10 00		150	10K	10K	30	50.0	40.0	20K	20	50	
80/12/02	11 00		410	10K	30K	30	60.0	40.0	10K	20	30	
80/12/16	10 45		350	10K	10K	20	60.0	40.0	10K	10	70	
80/12/30	10 45		400	10K	10K	20	70.0	30.0	10K	10	60	

Table 342.--Ambient water-quality data for station  
06711500 Bear Creek at mouth, at Sheridan--Continued

DATE	TIME	DEPTH	PHOS-T	HUD	20C
FROM	OF		ORTHU	5DAY	CAR
TO	DAY	FEET	MG/L P	MG/L	
80/04/29	09 30		0.030		1.0
80/05/13	09 45		0.020		1.0
80/05/28	09 45		0.020K		2.0
80/06/10	09 30		0.080K		2.0
80/06/24	09 30		0.020K		1.0
80/07/08	10 00		0.020K		1.0
80/07/15	09 30		0.020K		2.0
80/07/22	08 00		0.020K		2.0
80/07/29	09 45		0.020K		1.0
80/08/05	09 45		0.020*		3.0
80/08/12	09 45		0.110		2.0
80/08/19	09 45		0.030		2.0
80/08/26	10 00		0.010K		4.0
80/09/02	09 00		0.020K		2.0
80/09/16	09 15		0.020		1.0
80/09/23	09 45		0.020K		2.0
80/09/30	09 45		0.030		2.0
80/10/07	09 45		0.020K		1.0
80/10/14	09 15		0.020K		2.0
80/10/21	09 45		0.020K		2.0
80/11/04	10 00		0.020K		1.0
80/12/02	11 00		0.020K		2.0
80/12/16	10 45		0.030K		2.0
80/12/30	10 45		0.030K		2.0



Table 342.--Ambient water-quality data for station  
06711500 Bear Creek at mouth, at Sheridan--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CEN	STREAM FLOW, INST-CFS	CONDUCTIVITY AT 25C MICROMHO	DO PROBE MG/L	COD LOWLEVEL MG/L	COD HI LEVEL MG/L	PH	T ALK CACO <sub>3</sub> MG/L	RESIDUE DISS-105 C MG/L	RESIDUE TOT NFLY MG/L
81/01/13	10 45			12	840		18.0			246		8
81/01/27	11 00			9	840		9.0			249		10
81/03/10	10 30			10	811		9.0			220		9
81/03/24	09 30			10	790		13.0			224		20
81/05/12	08 00		9.0	12	760			14	8.10	206	0N	20
81/06/16	09 45		15.0	15	666			14	8.00	193	409	9
81/07/21	07 45		20.0	11	650			5K	8.50	183	375	10
81/08/18	09 00		17.0	23	530			6	8.30	143	330	23

DATE FROM TO	TIME OF DAY	DEPTH FEET	NH <sub>3</sub> +NH <sub>4</sub> - N TOTAL MG/L	NO <sub>2</sub> -N TOTAL MG/L	TOT N MG/L	TOT KJEL N MG/L	NUTR+MGJ N-TOTAL MG/L	PHOS-TOT MG/L P	T ORG C C MG/L	TOT HARD CACO <sub>3</sub> MG/L	SODIUM NA, TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD, DISS UG/L
81/01/13	10 45		0.140	0.010K	0.600	0.600	2.20	0.020	4.0	319	56.00	36	1K
81/01/27	11 00		0.050K	0.010K	1.600	1.600	2.20	0.020	3.0	314	59.00	38	1K
81/03/10	10 30		0.060	0.010K	0.400	0.400	1.60	0.020		313	50.00	31	0
81/03/24	09 30		0.100K	0.010K	1.000	1.000	1.48	0.020		298	54.00	35	0
81/05/12	08 00		0.050K	0.010	2.000	2.000	0.91	0.100	36.0	282	51.00	35	1K
81/06/16	09 45		0.050K	0.010K	0.500K	0.500K	0.69	0.020K	2.0	252	46.00	30	1K
81/07/21	07 45		0.050K	0.010K	1.000	1.000	0.81	0.020K	4.0	238	43.00	30	1K
81/08/18	09 00		0.080	0.010K	1.000	1.000	0.45	0.020K	8.0	203	32.00	23	1K

Table 342.--Ambient water-quality data for station  
06711500 Bear Creek at mouth, at Sheridan--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	CADMIUM Cd, TOT UG/L	COPPER Cu, DISS UG/L	COPPER Cu, TOT UG/L	IRON Fe, TOT UG/L	IRON Fe, DISS UG/L	LEAD Pb, DISS UG/L	LEAD Pb, TOT UG/L	MANGNESE Mn UG/L	MANGNESE Mn, DISS UG/L	ZINC Zn, DISS UG/L
81/01/13	10 45		1	20K	20	190	10K	10K	10	80.0	30.0	10K
81/01/27	11 00		1	20K	20	240	10K	10K	10	80.0	40.0	20K
81/03/10	10 30		2	0	20	200	60	0	30	80.0	80.0K	0
81/03/24	09 30		10	20K	20	420	20	0	60	120.0	60.0	0
81/05/12	08 00		1K	10K	20	700	10K	10K	10	100.0	70.0	10K
81/06/16	09 45		1K	10K	20	450	10	10K	30	90.0	70.0	20
81/07/21	07 45		1K	10K	20	520	10K	10K	10K	80.0	60.0	20
81/08/18	09 00		1K	10K	220	610	90	10K	10	60.0	50.0	10

DATE FROM TO	TIME OF DAY	DEPTH FEET	ZINC Zn, TOT UG/L	FEC COLI w-FCAGAR /100ML	FEC COLI MPN/ECMED /100ML	PHOS-P ORTHOP MG/L P	BOD 20C 5 DAY CAR MG/L
81/01/13	10 45		30	47		0.020K	2.0
81/01/27	11 00		20	20		0.020K	2.0
81/03/10	10 30		10	100		0.020K	2.0
81/03/24	09 30		80	68		0.020K	1.0
81/05/12	08 00		40	170		0.020K	2.0
81/06/16	09 45		50	250		0.020K	2.0
81/07/21	07 45		210	4000		0.020K	2.0K
81/08/18	09 00		40	480		0.020K	2.0

Table 343.--Ambient water-quality data for station  
06711575 Harvard Gulch at Harvard Park, at Denver

[K indicates less than; N indicates not requested]

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTIVITY AT 25C MICROMHU	DO PROBE MG/L	CUD LOWLEVEL MG/L	CUD HI LEVEL MG/L	PH SU	T ALK CAC03 MG/L	RESIDUE DISS-105 C MG/L	RESIDUE TOT NFLT MG/L
81/05/12	11 30		13.0	1	1260			37	8.80	232		N
81/06/16	11 00		20.0	1	1130			5	8.70	257	775	4
81/07/21	10 00		21.5	1	1060			7	8.60	252		4
81/08/18	10 00		20.0	1	1080			7	8.65	288	716	3

DATE FROM TO	TIME OF DAY	DEPTH FEET	NH3-NH4-N TOTAL MG/L	NO2-N TOTAL MG/L	TOT KJEL N MG/L	NO2&NO3 N-TOTAL MG/L	PHOS-P MG/L	T ORG C C MG/L	TOT HARD CAC03 MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,DISS UG/L
81/05/12	11 30		0.050K	0.010	1.300	0.88	0.090K	52.0	305	160.00	71	1K
81/06/16	11 00		0.060	0.030	0.800	0.78	0.180	3.0	291	150.00	64	1K
81/07/21	10 00		0.060	0.010K	1.700	1.20	0.020K	4.0	252	139.00	61	1K
81/08/18	10 00		0.080	0.030	0.800	0.62	0.020K	2.0K	218	153.00	61	1K

Table 343.--Ambient water-quality data for station  
06711575 Harvard Gulch at Harvard Park, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	CADMIUM Cd, TOT UG/L	CUPPER Cu, DISS UG/L	CUPPER Cu, TOT UG/L	IRON Fe, TOT UG/L	IRON Fe, DISS UG/L	LEAD Pb, DISS UG/L	LEAD Pb, TOT UG/L	MANGNESE Mn UG/L	MANGNESE Mn, DISS UG/L	ZINC Zn, DISS UG/L
81/05/12	11 30		1K	10K	20	180	10K	10	10	100.0	80.0	10
81/06/16	11 00		1K	10K	60	150	10K	10K	10	50.0	50.0K	10K
81/07/21	10 00		1K	10K	170	260	10K	10K	10	20.0	20.0	30
81/08/18	10 00		1K	10K	80	80	10K	10K	10	20.0	10.0	60K

DATE FROM TO	TIME OF DAY	DEPTH FEET	ZINC Zn, TOT UG/L	FEC COLI M-FUAGAR /100ML	FEC COLI APNECMEU /100ML	PHOS-T (ORTH) MG/L P	NUD 20C 5 DAY CAR MG/L
81/05/12	11 30		60	460		0.090	4.0
81/06/16	11 00		40	ON		0.030	3.0
81/07/21	10 00		300	2700		0.020K	2.0
81/08/18	10 00		60	1900		0.020K	2.0

Table 344.--Ambient water-quality data for station  
06711610 Sanderson Gulch at mouth, at Denver

[K indicates less than; N indicates not requested]

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTIVY AT 25C MICROMHO	DO PROBE MG/L	COD LEVEL MG/L	COD HI LEVEL MG/L	PH SU	T ALK CACO <sub>3</sub> MG/L	RESIDUE DISS-105 C MG/L	RESIDUE TOT NFLY MG/L
81/05/12	12	15	18.0	1	810		12		8.85	213		8
81/06/16	12	15	24.0	1	686		10		9.30	163	480	7
81/07/21	10	45	25.0	1	700		16		8.65	188	ON	8
81/08/18	10	30	27.0	1	660		13		8.80	181	415	2

DATE FROM TO	TIME OF DAY	DEPTH FEET	NH <sub>3</sub> +NH <sub>4</sub> - N TOTAL MG/L	NO <sub>2</sub> -N TOTAL MG/L	TOT KJEL N MG/L	NO <sub>2</sub> &NO <sub>3</sub> N-TOTAL MG/L	PHOS-TOT MG/L P	T ORG C C MG/L	TOT HARD CACO <sub>3</sub> MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,DISS UG/L
81/05/12	12	15	0.050K	0.010	1.600	1.01	0.070	6.0	194	100.00	42	1K
81/06/16	12	15	0.050K	0.010K	0.600	0.14	0.120	6.0	156	97.00	40	1K
81/07/21	10	45	0.050K	0.010K	1.800	0.12	0.020K	3.0	158	92.00	38	1K
81/08/18	10	30	0.140	0.020	0.700	0.37	0.020K	2.0K	146	85.00	33	1K

Table 344.---Ambient water-quality data for station  
06711610 Sanderson Gulch at mouth, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	CADMIUM CD, TOT UG/L	COPPER CU, DISS UG/L	COPPER CU, TOT UG/L	IRON FE, TOT UG/L	IRON FE, DISS UG/L	LEAD PB, DISS UG/L	LEAD PB, TOT UG/L	MANGNESE MN UG/L	MANGNESE MN, DISS UG/L	ZINC ZN, DISS UG/L
81/05/12	12 15		1K	10K	20	240	10K	10K	10K	40.0	10.0K	10K
81/06/16	12 15		1K	10K	110	220	10K	10K	30	40.0	10.0K	10K
81/07/21	10 45		1K	10K	50	190	10K	10K	10K	30.0	30.0K	70K
81/08/18	10 30		1K	10K	50	80	10K	10K	10K	10.0	10.0K	60

DATE FROM TO	TIME OF DAY	DEPTH FEET	ZINC ZN, TOT UG/L	FEC CULI M-FCAGAR /100ML	FEC CULI MPNFC*ED /100ML	PHOS-T ORTHOD MG/L P	ROD 20C SDAY CAR MG/L
81/05/12	12 15		60	140		0.020K	2.0
81/06/16	12 15		50	ON		0.020K	3.0
81/07/21	10 45		70	2400		0.020K	2.0
81/08/18	10 30		70	280		0.020K	2.0

Table 345.--Ambient water-quality data for station  
06711622 Weir Gulch at mouth, at Denver

[K indicates less than; N indicates not requested]

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTIVITY AT 25C MICROMHU	DO PROBE MG/L	COD LOW-LEVEL MG/L	COD HI LEVEL MG/L	PH SU	T ALK CACO3 MG/L	RESIDUE DISS-105 C MG/L	RESIDUE TOT NFET MG/L
81/05/12	13	45	21.0	1	930			28	8.60	205	ON	9
81/06/16	13	45	22.0	2	988			22	8.30	198	620	10
81/07/21	11	15	26.0	2	680			31	8.60	150	ON	27
81/08/16	11	30	24.0	1	860			21	8.60	178	531	14

DATE FROM TO	TIME OF DAY	DEPTH FEET	NH3+NH4- N TOTAL MG/L	NO2-N TOTAL MG/L	TOT KJEL N MG/L	NO2&NO3 N-TOTAL MG/L	PHOS-TOT MG/L P	T ORG C MG/L	TOT HARD CACO3 MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,DISS UG/L
81/05/12	13	45	0.050K	0.050	1.300	2.68	0.100	13.0	221	124.00	41	1K
81/06/16	13	45	0.050K	0.070	1.500	1.47	0.120	10.0	229	150.00	52	1K
81/07/21	11	15	0.080	0.010K	3.000	0.56	0.020K	12.0	151	97.00	34	1K
81/08/16	11	30	0.200	0.070	1.400	0.88	0.020K	2.0K	140	136.00	46	1K

Table 345.--Ambient water-quality data for station  
06711622 Weir Gulch at mouth, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	CADMIUM CD, TOT UG/L	CUPPER CU, DISS UG/L	CUPPER CU, TOT UG/L	IRON FE, TOT UG/L	IRON FE, DISS UG/L	LEAD PB, DISS UG/L	LEAD PB, TOT UG/L	MANGNESE MN UG/L	MANGNESE MN, DISS UG/L	ZINC ZN, DISS UG/L
81/05/12	13	45	1K	10K	20	1050	10K	10	10K	100.0	30.0	10
81/06/16	13	45	1K	10K	40	360	10K	10K	20	100.0	10.0K	30
81/07/21	11	15	1	10K	10K	660	10K	10K	10	140.0	30.0	50
81/08/18	11	30	1K	10K	80	320	10K	10K	10	90.0	30.0	50

DATE FROM TO	TIME OF DAY	DEPTH FEET	ZINC ZN, TOT UG/L	FEC COLI M-FLAGAR /100ML	FEC COLI MPNECMED /100ML	PHOS-T URTHO MG/L P	MOD 20C 5DAY CAR MG/L
81/05/12	13	45	70	230		0.020K	4.0
81/06/16	13	45	70	ON		0.020K	5.0
81/07/21	11	15	260	770		0.020K	8.0
81/08/18	11	30	140	200		0.020K	4.0



Table 346.---Ambient water-quality data for station  
06711800 Lakewood Gulch at mouth, at Denver

[K indicates less than; N indicates not requested]

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTIV AT 25C MICROMHO	DO PROBE MG/L	CDD LOWLEVEL MG/L	COD HI LEVEL MG/L	PH SU	T ALK CACO3 MG/L	RESIDUE DISS-105 C MG/L	RESIDUE TUT NFLT MG/L
81/05/12	14	30	21.0	4	1290			14	8.65	292	0N	38
81/06/16	14	45	24.0	6	811			14	9.20	219	548	25
81/07/21	12	30	26.0	5	850			5K	8.75	224	0N	22
81/08/18	12	45	23.5	5	1000			7	8.60	259	702	15

DATE FROM TO	TIME OF DAY	DEPTH FEET	NH3+NH4- N TOTAL MG/L	NO2-N TOTAL MG/L	TOT KJEL N MG/L	NO2&NO3 N-TOTAL MG/L	PHOS-P MG/L	T URG C C MG/L	TOT HARD CACO3 MG/L	SODIUM NA, TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD, DISS UG/L
81/05/12	14	30	0.050K	0.020	1.500	2.90	0.150	11.0	330	164.00	60	1K
81/06/16	14	45	0.050K	0.040	0.700	0.78	0.140	5.0	190	109.00	41	1K
81/07/21	12	30	0.050K	0.010K	1.700	1.39	0.050	4.0	234	102.00	38	1K
81/08/18	12	45	0.080	0.020	0.700	1.44	0.020K	39.0	244	145.00	50	1K

Table 346.--Ambient water-quality data for station  
06711800 Lakewood Gulch at mouth, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	CADMIUM Cd, TOT UG/L	COPPER Cu, DISS UG/L	COPPER Cu, TOT UG/L	IRON Fe, TOT UG/L	IRON Fe, DISS UG/L	LEAD Pb, DISS UG/L	LEAD Pb, TOT UG/L	MANGANESE Mn UG/L	MANGANESE Mn, DISS UG/L	ZINC Zn, DISS UG/L
81/05/12	14	30	1K	10K	20	280	10K	10K	10K	30.0	10.0K	10K
81/06/16	14	45	1K	10K	20	330	10K	10K	20	30.0	10.0K	10K
81/07/21	12	30	1K	20	10K	1900	10K	10K	10K	60.0	10.0K	30
81/08/18	12	45	1K	10K	50	410	10K	10K	10K	30.0	20.0	30K

DATE FROM TO	TIME OF DAY	DEPTH FEET	ZINC Zn, TOT UG/L	FEC COLI M-FCAGAR /100mL	FEC COLI MPNFC-MED /100mL	PHOS-T ORTHOP MG/L P	KOD 20C 5 DAY CAR MG/L
81/05/12	14	30	30	160		0.020K	1.0
81/06/16	14	45	70	0N		0.020K	3.0
81/07/21	12	30	510	1400		0.040	2.0
81/08/18	12	45	30	500		0.020K	2.0

Table 347.--Water-quality data for station  
06710000 South Platte River at Littleton

[J indicates estimated; K indicates less than; L indicates greater than;  
N indicates not requested; O indicates lost sample]

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CNDUCTIVY AT 25C MICROMHO	DO PROBE MG/L	COD LOWLEVEL MG/L	COD HI LEVEL MG/L	PH SU	RESIDUE TOT NFLT MG/L	NH3+NH4= N TOTAL MG/L	NO2=N TOTAL MG/L
80/04/01	08 15		4.0	291	402	12.8		35	8.40	34	0.080	
80/04/08	08 30		3.5	77	438	15.6		13	8.20	14	0.040	
80/04/15	09 30		13.0	97	427	10.8		39	8.20	5	0.080	
80/04/22	09 15		10.5	310	386	9.2		9	8.35	26	0.000	
80/04/29	08 15		9.5	750	367	10.2		8	8.25	58	0.040	
80/05/06	08 30		11.0	2168	280	14.0	19.0		8.20	331	0.100	0.020
80/05/13	08 00		10.5	2350	281	14.4	18.0		8.25	232	0.100	0.020
80/05/20	09 45		11.0	2096	256	10.2	16.0		8.25	316	0.100	0.020
80/05/28	08 15		14.0	2213	250	9.4	18.0		8.05	204	0.100	0.010
80/06/03	09 00		14.0	2353	240	8.8	16.0		8.15	219	0.010K	0.010
80/06/10	08 00		16.0	2460L	220	8.3	17.0		8.30	25	0.100K	0.010K
80/06/17	09 45		17.5	2280	240	8.5		52	8.30	363	0.010K	0.010K
80/06/24	08 00		18.0	2141	260	7.6	16.0		8.20	91	0.040	0.010K
80/07/01	09 30		19.0	870	303	7.3	15.0		8.30	128	0.050K	0.010K
80/07/08	08 00		20.5	650	316	7.2	15.0		8.20	140	0.030K	0.010K
80/07/11	20 30		19.0	912	343		15.0		8.10	38	0.070	0.020
80/07/12	04 00		19.0	954	333		20.0		8.40	80	0.050K	0.020
80/07/15	08 00		21.5	888	362	7.4	14.0		8.30	35	0.060	0.010
80/07/22	09 30		21.0	765	390	7.5	14.0		8.00	32	0.050K	0.010
80/07/29	08 00		21.0	670	400	6.6	14.0		8.30	86	0.050K	0.020
80/08/05	08 00		20.0	540	413	6.8	12.0		8.30	75	0.050K	0.010K
80/08/12	08 00		18.5	223	441	8.3	14.0		8.30	30	0.080	0.010K
80/08/14	21 15		18.5	158	450	7.1	32.0		7.40	275	0.120	0.030
80/08/15	08 45		18.5	128	470	8.1	20.0		7.60	83	0.100	0.020
80/08/19	08 00		18.5	405	413	7.5	14.0		8.30	46	0.050	0.010
80/08/26	08 30		17.5	89	490	6.9	16.0		8.20	19	0.060	0.020
80/09/02	07 30		15.3	257	408	7.1	15.0		7.90	88	0.050K	0.010K
80/09/08	23 00		13.0	81	430	7.8	15.0		8.10	15	0.150	0.010K
80/09/09	07 30		13.5	112	441	7.8	29.0		7.80	110	0.120	0.020
80/09/10	08 00		14.8	188	419	8.0	16.0		8.30	26	0.050	0.020
80/09/16	08 00		11.9	55	405	8.2	12.0		8.20	7	0.150	0.020
80/09/23	08 00		8.7	42	510	8.0	15.0		7.70	22	0.060	0.010
80/09/30	08 00		9.0	34	562	9.3	6.0		7.60	10	0.050K	0.010K
80/10/07	08 00		7.7	29	550	9.5J	12.0		7.50	9	0.050	0.010
80/10/14	08 00		10.0	25	617	8.7J	12.0		7.85	6	0.130	0.010
80/10/21	08 00		8.0	52	540		6.0		7.30	11	0.050	0.020

Table 347.--Water-quality data for station 06710000  
South Platte River at Littleton--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	TOT N KJEL MG/L	NO2&NO3 N-TOTAL MG/L	PHOS-TOT MG/L P	T ORG C MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,DISS UG/L	CADMIUM CD,TOT UG/L	COPPER CU,DISS UG/L	COPPER CU,TOT UG/L
80/04/01	08 15		0.810	0.89	0.050	7.7		28		0		5
80/04/08	08 30		0.790	1.00	0.060	5.2				0		7
80/04/15	09 30		0.710	0.93	0.030	4.4				1		3
80/04/22	09 15		0.870	0.83	0.060	4.0		27		0		11
80/04/29	08 15		0.990	0.80	0.050	5.0				1		3
80/05/06	08 30		1.000	0.58	0.200	4.0	20.00	22	1K	8	10K	10
80/05/13	08 00		1.500	0.30	0.200	26.0	18.00	21	1K	16	10K	60
80/05/20	09 45		1.100	0.26	0.200	16.0	15.00	18	1K	4	10K	40
80/05/28	08 15		0.600	0.18	0.100	8.0	12.00	16	1K	3	10K	10
80/06/03	09 00		0.030K	0.11	0.150	9.0	12.00	16	3	4	10K	20
80/06/10	08 00		1.000	0.04	0.100	6.0	13.00	16	1	4	10K	10
80/06/17	09 45		0.030K	0.07	0.100	6.0	7.00	18	1	4	10K	20
80/06/24	08 00		1.200	0.07	0.070	6.0	16.00	22	1K	4	10K	20
80/07/01	09 30		0.500	0.05	0.020K	3.0	19.00	26	1	6	10K	40
80/07/08	08 00		0.030K	0.19	0.060	6.0	22.00	28	4K	4	10	30
80/07/11	20 30		0.500	0.50	0.090	8.0	27.00	30	2K	2	10K	10
80/07/12	04 00		0.050	0.15	0.090	6.0	26.00	30	2	2	10K	10
80/07/15	08 00		0.300	0.13	0.300	8.0	26.00	31	1K	4	10K	10
80/07/22	09 30		0.500	0.23	0.020	8.0	31.00	34	1K	2	10K	20
80/07/29	08 00		0.600	0.17	0.100	5.0	30.00	40	1K	1	10K	30
80/08/05	08 00		1.100	0.20	0.050	4.0	31.00	38	1K	6	10K	10
80/08/12	08 00		1.600	0.18	0.080	4.0	30.00	42	1K	5	10K	10
80/08/14	21 15		1.100	0.50	0.290	8.0	34.00	42	1K	2	10K	10
80/08/15	08 45		0.600	0.38	0.100	48.0	34.00	41	2K	2	10K	10
80/08/19	08 00		0.500	0.16	0.020	4.0	28.00	38	4K	4	10K	20
80/08/26	08 30		0.800	0.34	0.020	3.0	29.00	37	1K	3	10K	10
80/09/02	07 30		1.000	0.09	0.150	1.0	25.00	37	1K	1	10K	10
80/09/08	23 00		0.900	0.32	0.100	5.0	28.00	35	2K	2	20	20
80/09/09	07 30		1.700	0.43	0.160	8.0	31.00	35	3K	3	20	80
80/09/10	08 00		1.200	0.18	0.100	16.0	28.00	35	3K	3	10K	10
80/09/16	08 00		0.150L	0.36	0.020	2.0	34.00	38	1K	2	10K	10
80/09/23	08 00		0.900	0.30	0.150	2.0	37.00	35	1K	1	10K	10
80/09/30	08 00		0.400	0.49	0.100	4.0	38.00	39	1K	1K	10K	10K
80/10/07	08 00		0.300	0.48	0.090	6.0	40.00	39	1K	1	10K	20
80/10/14	08 00		0.600	0.60	0.050	30.0	97.00	41	1K	2	10K	30
80/10/21	08 00		2.700	0.40	0.100	24.0	40.00	37	1K	1	10K	10

Table 347.--Water-quality data for station 06710000  
South Platte River at Littleton--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	IRON FE,TOT UG/L	IRON FE,DISS UG/L	LEAD PB,DISS UG/L	LEAD PB,TOT UG/L	MANGNESE MN UG/L	MANGNESE MN,DISS UG/L	ZINC ZN,DISS UG/L	ZINC ZN,TOT UG/L	FEC COLI M-FCAGAR /100ML	FEC COLI MPNECHED /100ML
80/04/01	08 15		780			7	160.0					
80/04/08	08 30		350			13	80.0					
80/04/15	09 30		270			0	60.0					
80/04/22	09 15		870			6	100.0					
80/04/29	08 15		1300			7	0.0					
80/05/06	08 30		10000			30	220.0	10.0K	30K	110	70	
80/05/13	08 00		8000	770	10K	70	180.0	60.0	10K	420	30	
80/05/20	09 45		5000	80	10K	40	120.0	10.0	10K	180	40	
80/05/28	08 15		2200	140	10K	20	60.0	10.0K	30	70	4	
80/06/03	09 00		2300	100	10K	10	80.0	20.0	40	100	10K	
80/06/10	08 00		2000	90	10K	10	90.0	20.0	10	20	48	
80/06/17	09 45		700	100	10K	20	40.0	20.0	30K	30	40	
80/06/24	08 00		1000	110	10K	20	100.0	60.0	30K	30	4	
80/07/01	09 30		800	80	10K	30	150.0	100.0	20K	20	50	
80/07/08	08 00		650	30	10K	10	180.0	120.0	40K	40	3	
80/07/11	20 30		820	10K	10K	20	180.0	150.0	30K	30	3400	
80/07/12	04 00		1000	30	10K	20	110.0	70.0	20	20	1000	
80/07/15	08 00		580	10K	10K	20	130.0	70.0	20K	20	7	
80/07/22	09 30		630	20	10K	10	120.0	10.0K	20	30	1400	
80/07/29	08 00		530	30	10K	10	100.0	30.0	30K	30	10K	
80/08/05	08 00		520	10K	10K	10	640.0	30.0	30K	30	20	
80/08/12	08 00		2200	70	10K	70	240.0	30.0	50	140	20	
80/08/14	21 15		10000	40	10K	40	340.0	70.0	50	80	4000	
80/08/15	08 45		12000	30	10K	30	110.0	50.0	30	90	3900	
80/08/19	08 00		470	20	10K	10	110.0	10.0K	20	60	24	
80/08/26	08 30		510	10K	10K	20	80.0	50.0	30	40	60L	
80/09/02	07 30		480	10K	10K	30	120.0	10.0K	30K	30	50	
80/09/08	23 00		380	20	10K	40	90.0	30.0	30	30	300	
80/09/09	07 30		4500	70	10K	40	210.0	60.0	150K	150	1400	
80/09/10	08 00		700	10K	10K	40	120.0	20.0	30	60	360	
80/09/16	08 00		190	10K	10K	30	60.0	10.0K	10K	20	280	
80/09/23	08 00		270	10K	10K	10	60.0	20.0	40K	40	330	
80/09/30	08 00		270	10K	10K	10K	100.0	30.0	30	60	140	
80/10/07	08 00		380	10K	10K	10	110.0	70.0	60K	60	280	
80/10/14	08 00		290	10K	40K	40	110.0	70.0	20	50	180	
80/10/21	08 00		380	10K	10K	10	80.0	40.0	50K	50	30	

Table 347.--Water-quality data for station 06710000  
South Platte River at Littleton--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	PHOS-T ORTHO MG/L P	BOD 20C 5DAY CAR MG/L
80/04/01	08 15		0.010	
80/04/08	08 30		0.010	
80/04/15	09 30		0.050	
80/04/22	09 15		0.030	
80/04/29	08 15		0.050	
80/05/06	08 30		0.020	1.0
80/05/13	08 00		0.100	1.0
80/05/20	09 45		0.020	1.0
80/05/28	08 15		0.020K	1.0
80/06/03	09 00		0.100	1.0
80/06/10	08 00		0.100K	1.0
80/06/17	09 45		0.020K	2.0
80/06/24	08 00		0.040	1.0
80/07/01	09 30		0.020K	1.0
80/07/08	08 00		0.030	2.0
80/07/11	20 30		0.020K	1.0
80/07/12	04 00		0.020K	2.0
80/07/15	08 00		0.020K	1.0
80/07/22	09 30		0.020K	1.0
80/07/29	08 00		0.020K	2.0
80/08/05	08 00		0.020K	2.0
80/08/12	08 00		0.080	2.0
80/08/14	21 15		0.100	3.0
80/08/15	08 45		0.070	2.0
80/08/19	08 00		0.070J	2.0
80/08/26	08 30		0.020	2.0
80/09/02	07 30		0.030	2.0
80/09/08	23 00		0.020K	2.0
80/09/09	07 30		0.020K	5.0
80/09/10	08 00		0.020K	7.0
80/09/16	08 00		0.020K	1.0
80/09/23	08 00		0.100	3.0
80/09/30	08 00		0.020K	2.0
80/10/07	08 00		0.050	2.0
80/10/14	08 00		0.020	2.0
80/10/21	08 00		0.020	2.0

Table 347.--Water-quality data for station 06710000  
South Platte River at Littleton--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CNDUCTIVY AT 25C MICROMHO	DO PROBE MG/L	COD LOWLEVEL MG/L	COD HT LEVEL MG/L	PH	T ALK CACO3 MG/L	RESIDUE DISS-105 C MG/L	RESIDUE TOT NFLT MG/L
80/10/28	08 00		7.5	206	420	9.4	17.0		8.40			28
80/11/04	08 30		9.0	83	440	9.6	11.0		8.30			6
80/11/11	09 00		7.5	66	443	11.6	12.0		8.30			4
80/11/18	09 00		4.0	23	635	11.0	12.0		8.30			4
80/11/25	09 30		3.5	70	530	14.0	16.0		8.70			8
80/12/02	09 30		3.0	62	496	14.8	10.0		8.70			5
80/12/09	09 30		3.0	35	500	11.5	12.0		8.70			35
80/12/16	09 30		3.0	47	497	13.2	26.0		8.40			20
80/12/30	09 30		3.0	51	470	11.1	17.0		8.00			10
81/01/06	09 30			40	490		26.0			117		12
81/01/13	09 30			25	560		19.0			128		8
81/01/20	09 15			59	469		20.0			108		32
81/01/27	09 30			111	458		18.0			102		58
81/02/03	09 30			80	470		18.0			104		47
81/02/10	09 45			86	480		9.0			446		61
81/02/17	09 00			74	444		20.0			101		45
81/02/24	08 00			51	490		21.0			106		16
81/03/03	09 00			34	480		15.0			109		14
81/03/04	10 00			44			17.0			102	104	29
81/03/05	09 00			67	450		22.0			100	328	33
81/03/06	09 00			67	470		15.0			102		32
81/03/10	09 00			51	497		18.0			108		24
81/03/17	09 00			38	475		21.0			111		15
81/03/24	08 00			37	500		21.0			116		16
81/03/31	08 45			16	530		16.0			147		27
81/04/03	07 00			24	540					114	00	182
81/04/03	14 15			54	402			56		84		287
81/04/04	00 45			47	645			37		110	256	287
81/04/07	08 30			40	522			25		115	338	110
81/04/14	08 45			42	490			18		112	300	28
81/04/21	08 30			172	440			20		101	313	19
81/04/21	08 30			210	420			24		99	237	106
81/04/28	08 45			22	440			22		103	215	84
								15			265	32

Table 347--Water-quality data for station 06710000  
South Platte River at Littleton--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	NH3+NH4- N TOTAL MG/L	NO2-N TOTAL MG/L	TOT KJEL N MG/L	NO2&NO3 N-TOTAL MG/L	PHOS-TOT MG/L P	T ORG C C MG/L	TOT HAKD CACO3 MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,DISS UG/L
80/10/28	08 00		0.200	0.020	1.500	0.19	0.080	4.0		30.00	36	1K
80/11/04	08 30		0.090	0.010	0.090	0.40	0.020	2.0		33.00	36	1K
80/11/11	09 00		0.050	0.020	0.090	0.42	0.060	6.0		36.00	36	1K
80/11/18	09 00		0.070		0.080	0.67	0.020	5.0		45.00	40	1K
80/11/25	09 30		0.100	0.010	1.000	0.87	0.050	24.0		38.00	36	1K
80/12/02	09 30		0.150	0.020	1.500	0.57	0.070	6.0		32.00	36	1K
80/12/09	09 30		0.050	0.020	1.100	0.68	0.090	27.0		35.00	38	1K
80/12/16	09 30		0.080	0.010K	0.600	0.65	0.050	4.0		31.00	35	1K
80/12/30	09 30		0.050K	0.010	1.000	0.82	0.060	5.0		31.00	36	7K
81/01/06	09 30		0.060	0.010	1.000	2.40	0.120	2.0	180	33.00	34	1K
81/01/13	09 30		0.090	0.010K	0.550	0.94	0.020	2.0	190	33.00	40	1K
81/01/20	09 15		0.200	0.010	1.000	0.77	0.120	15.0	160	32.00	30	2K
81/01/27	09 30		0.050K	0.010K	1.100	0.76	0.100	6.0	150	30.00	36	1K
81/02/03	09 30		0.050K	0.010	1.000	0.94	0.060	6.0	195	31.00	37	1K
81/02/10	09 45		0.050	0.010K	1.000	0.65	0.120	4.0	176	28.00	38	1K
81/02/17	09 00		0.050	0.020	0.500	0.74	0.020	9.0	163	26.00	32	6K
81/02/24	08 00		0.140	0.010K	0.700	0.76	0.100	7.0	164	28.00	20	1K
81/03/03	09 00		0.050	0.010K	0.600	0.77	0.050	7.0	255	28.00	33	1K
81/03/04	10 00		0.050K	0.010	0.900	0.80	0.170	5.0	160	26.00	32	1K
81/03/05	09 00		0.050K	0.010	0.900	0.94	0.060	4.0	157	27.00	32	1K
81/03/06	09 00		0.060	0.020	1.100	0.72	0.080	4.0	159	28.00	32	1K
81/03/10	09 00		0.050	0.010	1.000	0.91	0.030	18.0	166	30.00	28	0
81/03/17	09 00		0.050K	0.050	0.900	0.64	0.030		166	30.00	31	2
81/03/24	08 00		0.200	0.010	0.600	0.84	0.280		175	110.00	31	0
81/03/31	08 45		0.150	0.010	0.600	0.71	0.100		236	48.00	40	0
81/04/03	07 00		0.320	0.030	1.000	1.05	0.250	2.0	174	40.00	35	1K
81/04/04	00 45		0.180	0.020	1.500	0.64	0.500	14.0	125	27.00	30	1K
81/04/07	00 45		0.080	0.010	0.700	0.61	0.250	36.0	178	40.00	36	1K
81/04/14	08 30		0.040	0.010K	0.600	0.68	0.100	34.0	180	35.00	34	1K
81/04/14	08 45		0.050K	0.010	0.300	0.70	0.050	27.0	172	32.00	32	1K
81/04/21	08 30		0.050K	0.010	1.200	0.68	0.100	18.0	150	28.00	28	1K
81/04/28	08 45		0.050K	0.020	1.300	0.69	0.840	4.0	145	27.00	30	1K
81/04/28	08 45		0.060	0.020	1.000	0.67	0.100	4.0	150	26.00	28	1K



Table 347.---Water-quality data for station 06710000  
South Platte River at Littleton--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	CADMIUM CD,TOT UG/L	COPPER CU,DISS UG/L	COPPER CU,TOT UG/L	IRON FE,TOT UG/L	IRON FE,DISS UG/L	LEAD PB,DISS UG/L	LEAD PB,TOT UG/L	MANGNESE MN UG/L	MANGNESE MN,DISS UG/L	ZINC ZN,DISS UG/L
80/10/28	08 00		1	10K	10	700	10K	60K	60	180.0	20.0	20
80/11/04	08 30		1	10K	10	220	10K	10K	30	70.0	40.0	20
80/11/11	09 00		1	10K	10	150	10K	30	50	70.0	50.0	30K
80/11/18	09 00		1	20K	20	190	10K	10K	10	120.0	110.0	30
80/11/25	09 30		1	10K	10	240	10K	10K	10	200.0	70.0	20
80/12/02	09 30		1	10K	10	140	10K	30K	30	70.0	60.0	10K
80/12/09	09 30		2	10K	10	1050	10K	10K	30	120.0	90.0	30K
80/12/16	09 30		1	10K	10	470	20	10K	30	120.0	90.0	10K
80/12/30	09 30		7	10K	10	390	10K	10K	10	110.0	70.0	10K
81/01/06	09 30		1	20K	20	300	10K	10K	10	150.0	70.0	10K
81/01/13	09 30		1	20K	20	180	10K	10K	10	140.0	80.0	10K
81/01/20	09 15		2	20K	20	870	10K	10K	10	150.0	70.0	10K
81/01/27	09 30		1	20K	20	1500	10K	10K	10	180.0	30.0	10K
81/02/03	09 30		1	10K	10	1900	10K	10K	10	190.0	70.0	20K
81/02/10	09 45		1	10K	20	1900	10K	10K	20	200.0	60.0	30
81/02/17	09 00		6	10K	20	900	10K	10K	30	120.0	60.0	10K
81/02/24	08 00		3	20	30	230	10K	10K	20	90.0	60.0	10K
81/03/03	09 00		3	10K	20	230	10K	10K	20	350.0	50.0	10K
81/03/04	10 00		2	10K	10	540	10K	10K	30	120.0	50.0	10K
81/03/05	09 00		2	10K	20	680	10K	10K	20	140.0	20.0	10K
81/03/06	09 00		2	10K	20	630	10K	10K	30K	490.0	60.0	10K
81/03/10	09 00		3	0	30	560	40	0	10	120.0	120.0K	30K
81/03/17	09 00		7	0	10	270	20	0	20	130.0	90.0	0
81/03/24	08 00		3	20K	20	270	20	0	30	150.0	70.0	0
81/03/31	08 45			0	10	6700	10K			440.0	130.0	
81/04/03	07 00		1K	10K	30	310	30	10K	10K	180.0	90.0	30
81/04/04	00 45		1K	10K	30	10200	60	10K	40	270.0	60.0	10K
81/04/07	08 30		1K	10K	10	3510	20	10K	10K	170.0	60.0	10K
81/04/14	08 45		1K	10K	10K	880	10K	10K	10K	100.0	50.0	20
81/04/21	08 30		1K	10K	10K	560	10K	10K	10K	80.0	60.0	10K
81/04/28	08 45		1K	10K	10K	3050	10K	20	20K	160.0	70.0	10K
81/04/28	08 45		1K	10K	20	2180	10K	10K	10K	120.0	10.0K	100
81/04/28	08 45		1K	10K	20	1250	10K	10K	10K	130.0	40.0	10K

Table 347.--Water-quality data for station 06710000  
South Platte River at Littleton--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	ZINC ZN,TOT UG/L	FEC COLI M-FCAGAR /100ML	FEC COLI MPNECMED /100ML	PHOS-T ORTHO MG/L P	BOD 20C 5DAY CAR MG/L
80/10/28	08 00		50	60		0.020	4.0
80/11/04	08 30		30	40		0.020K	2.0
80/11/11	09 00		30	8		0.060K	2.0
80/11/18	09 00		60	12		0.020K	2.0
80/11/25	09 30		20	12		0.020	4.0
80/12/02	09 30		20	8		0.030	3.0
80/12/09	09 30		30	27		0.020K	2.0
80/12/16	09 30		10	14		0.020K	4.0
80/12/30	09 30		10	8		0.040	2.0
81/01/06	09 30		40	37		0.020K	2.0
81/01/13	09 30		20	24		0.020K	3.0
81/01/20	09 15		10	1		0.020K	3.0
81/01/27	09 30		10	16		0.020	3.0
81/02/03	09 30		10K	20		0.020	4.0
81/02/10	09 45		20	24		0.100	4.0
81/02/17	09 00		40	10		0.020K	4.0
81/02/24	08 00		20	54		0.050	4.0
81/03/03	09 00		10	81		0.020	2.0
81/03/04	10 00		10	60		0.020K	3.0
81/03/05	09 00		20	80		0.020	3.0
81/03/06	09 00		20	36		0.020	2.0
81/03/10	09 00		30	52		0.020	3.0
81/03/17	09 00		60	2200		0.020K	2.0
81/03/24	08 00		30	28		0.020K	2.0
81/03/31	08 45			500		0.020K	2.0
81/04/03	07 00		60	250		0.020K	10.0
81/04/04	14 15		80	400		0.040	5.0
81/04/07	08 30		50	110		0.020K	4.0
81/04/14	08 45		20	120		0.020K	3.0
81/04/21	08 30		70	84		0.020	3.0
81/04/28	08 45		50	26		0.020K	5.0
			100K	26		0.020K	3.0
			30	2K		0.020K	2.0

Table 347.--Water-quality data for station 06710000  
South Platte River at Littleton--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTVY AT 25C MICROMHO	DO PROBE MG/L	COD LOWLEVEL MG/L	COD HI LEVEL MG/L	PH SU	T ALK CACO3 MG/L	RESIDUE DISS-105 C MG/L	RESIDUE TOT NFLT MG/L
81/05/03	13 00			77	454			29		106	284	46
	20 45			83	466			30		107	284	237
81/05/05	08 30			60	489			11		117	280	13
81/05/12	07 30			155	440			20		102	246	51
81/05/13	09 30			165	450			18		103	259	55
81/05/16	14 30			96	380			36		85	229	81
	18 00			92	461			25		107	271	49
81/05/17	11 00			122	402			17		95	264	89
	23 00			148	330			22		72	596	134
81/05/19	08 30			190	440			12		103	263	70
81/05/26	08 00			82	444			3		109	269	14
81/05/28	12 00			74	480			19	8.50	119	275	25
	21 00			72	470			8		123	280	27
81/06/02	09 00		15.3	111	393	8.3		12	8.25	111	ON	72
81/06/09	08 30		17.0	54	431	6.9		10	8.30	115	284	14
81/06/16	09 00		13.0	39	460	9.3		10	7.90	113	301	5
81/06/23	08 30		19.0	36	495	8.4		3	7.70	126	300	12
81/06/30	08 00		16.5	47	562	8.0		22	7.90	129	354	67
81/07/07	08 15		20.0	74	430	8.2		16	7.80	116	261	48
81/07/14	06 30		16.3	60	514	7.7		18	8.20	120	336	37
81/07/21	08 30		21.0	150	380	6.8		11	8.40	89	203	59
81/07/26	20 30		18.5	128	388			23	8.25	88	234	122
81/07/27	03 00		17.0	172	381			52	8.30	92	284	368
	08 30		17.0	158	412			33	8.60	96	267	238
81/07/28	08 30		19.5	208	370	7.4		11	8.70	82	234	84
81/08/04	08 30		21.0	126	310	8.2		18	8.60	83	237	38
81/08/12	14 00		22.0	59	470			22	8.60	107	287	19
81/08/18	08 00		18.5	158	370	8.8		18	8.50	83	226	48
81/08/25	08 30		20.0	205	350	7.0		22	8.30	80	216	86
81/09/01	08 30		17.0	59	430	8.0		14	8.00	100	368	15
81/09/08	08 30		16.5	64	396	8.0		4	8.30	102	273	12
81/09/15	08 30		17.5	124	383			20	8.50	100	228	36
81/09/22	08 30		16.0	68	452	8.0		12	8.50	104	270	10
81/09/29	08 30		14.4	51	450	8.3		14	8.20	109	299	10

Table 347.--Water-quality data for station 06710000  
South Platte River at Littleton--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	NH3+NH4- N DISS MG/L	NH3+NH4- N TOTAL MG/L	NO2-N DISS MG/L	NO2-N TOTAL MG/L	KJELD N DISS MG/L	TOT N MG/L	NO2&NO3 N-TOTAL MG/L	NO2&NO3 N-DISS MG/L	PHOS-TOT MG/L P	PHOS-DIS MG/L P
81/05/03	13 00			0.060		0.020		1.000	2.50		0.100	
	20 45			0.180		0.020		1.500	0.57		0.320	
81/05/05	08 30			0.070		0.020		1.100	0.65		0.100	
81/05/12	07 30			0.050K		0.010		1.200	0.60		0.100	
81/05/13	09 30			0.060		0.010		1.700	0.57		0.910	
81/05/16	14 30			0.160		0.020		1.400	0.86		0.180	
	18 00			0.100		0.020		1.800	0.90		0.160	
81/05/17	11 00			0.070		0.020		2.000	0.84		0.140	
	23 00			0.080		0.040		0.700	0.93		0.180	
81/05/19	08 30			0.060		0.020		1.100	0.58		0.020K	
81/05/26	08 00		0.110	0.110	0.020	0.040	0.500	0.700	0.60	0.6	0.040	0.020K
81/05/28	12 00			0.050K		0.020		1.000	0.59		0.100	
	21 00			0.070		0.020		1.000	0.62		0.040	
81/06/02	09 00			0.600K		0.020		0.600	0.53		0.060	
81/06/09	08 30			0.140		0.030		0.300K	0.82		0.100	
81/06/16	09 00			0.060		0.020		0.400	0.53		0.050	
81/06/23	08 30			0.050K		0.020		0.300K	0.45		0.120	
81/06/30	08 00		0.070	0.120	0.050	0.040	0.30	0.0000	0.61	0.6	0.020K	0.180
81/07/07	08 15			0.900K		0.070		0.900	0.44		0.200	
81/07/14	06 30			0.050K		0.050		2.600	0.39		0.050	
81/07/21	08 30			0.070		0.010K		3.700	0.20		0.020K	
81/07/26	20 30			0.100		0.020		2.000	0.26		0.180	
81/07/27	03 00			0.120		0.040		1.500	0.36		0.350	
	08 30			0.070		0.030		1.200	0.50		0.240	
81/07/28	08 30		0.050K	0.050K	0.01K	0.010K	0.500	1.000	0.230	0.14	0.100	0.070
81/08/04	08 30			0.050K		0.010K		1.600	0.08		0.700K	
81/08/12	14 00			0.070		0.030		1.300	0.40		0.130	
81/08/18	08 00			0.080		0.010K		1.200	0.14		0.020K	
81/08/25	08 30		0.040	0.050	0.01K	0.010K	1.00K	1.400	0.170	0.11	0.040	0.100
81/09/01	08 30			0.050K		0.010K		0.800	0.31		0.060	
81/09/08	08 30			0.050K		0.010K		0.600	0.23		0.080K	
81/09/15	08 30			0.050K		0.010K		1.200	0.09		0.120	
81/09/22	08 30			0.050K		0.010K		1.400	0.19		0.050	
81/09/29	08 30			0.050K		0.010K		0.300K	0.22		0.110	

Table 347.--Water-quality data for station 06710000  
South Platte River at Littleton--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	T ORG C MG/L	D ORG C MG/L	TOT HARD CACO3 MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,DISS UG/L	CADMIUM CD,TOT UG/L	COPPER CU,DISS UG/L	COPPER CU,TOT UG/L	IRON FE,TOT UG/L
81/05/03	13 00		17.0		163	31.00	30	7	7K	10K	80	1400
	20 45		34.0		182	35.00	30	1K	1K	10K	90	11600
81/05/05	08 30		6.0		168	32.00	31	1	1K	10K	80	660
81/05/12	07 30		4.0		191	26.00	29	2	1K	10K	70	1380
81/05/13	09 30		2.0		157	26.00	29	1K	1K	10K	10	1730
81/05/16	14 30		22.0		129	25.00	26	1K	1K	10K	10	2370
	18 00		20.0		159	30.00	30	1K	1K	10K	10	1470
81/05/17	11 00		19.0		144	26.00	26	1K	2	10K	40	2520
	23 00		16.0		104	24.00	18	1K	7	10K	20	6100
81/05/19	08 30		25.0		147	29.00	28	1K	6	10	30	1760
81/05/26	08 00			4.0	159	30.00	27	1K	1K	10K	10K	500
81/05/28	12 00		5.0		160	33.00	32	1K	1	10K	20	780
	21 00		4.0		157	29.00	29	1K	1	10K	10	690
81/06/02	09 00		2.0		157	27.00	28	1K	3	10K	30	1980
81/06/09	08 30		2.0		167	32.00	32	1K	1K	10K	20	580
81/06/16	09 00		10.0		160	30.00	28	1K	1K	10K	50	260
81/06/23	08 30		2.0K		171	30.00	29	1K	1K	10K	20	280
81/06/30	08 00		6.0	0.02	196	37.00	36	1	1	10	20	2800
81/07/07	08 15		4.0		229	26.00	28	1K	1K	10K	40	1800
81/07/14	06 30		14.0		171	29.00	30	1K	1K	10K	10K	1400
81/07/21	08 30		0.00		131	20.00	26	1K	1K	10K	20	1350
81/07/26	20 30		13.0		128	26.00	26	1K	1K	10K	30	3240
81/07/27	03 00		17.0		132	25.00	26	1K	1K	10K	30	12600
	08 30		21.0		140	25.00	26	1K	1K	10K	30	8100
81/07/28	08 30		7.0	4.0	126	24.00	26	1K	1K	10K	10K	1570
81/08/04	08 30		12.0		126	24.00	26	1K	1	10K	40	920
81/08/12	14 00		13.0		161	31.00	28	1K	1K	10K	60	620
81/08/18	08 00		11.0		125	24.00	26	1K	3	10K	60	1420
81/08/25	08 30		9.0	9.0	125	24.00	26	1K	3	10K	60	1940
81/09/01	08 30		10.0		147	27.00	32	1K	2	10K	30	300
81/09/08	08 30		86.0		152	28.00	30	1K	1	10K	30	340
81/09/15	08 30		18.0		129	24.00	30	1K	1K	10K	50	800
81/09/22	08 30		7.0		152	29.00	31	1K	1	10K	30	230
81/09/29	08 30		13.0		162	30.00	32	1K	1K	10K	60	240

Table 347.--Water-quality data for station 06710000  
South Platte River at Littleton--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	IRON FE, DISS UG/L	LEAD PB, DISS UG/L	LEAD PB, TOT UG/L	MANGNESE MN UG/L	MANGNESE MN, DISS UG/L	ZINC ZN, DISS UG/L	ZINC ZN, TOT UG/L	FEC COLI M-FCAGAR /100ML	PHOS-T ORTHO MG/L P	BOD 20C SDAY CAR MG/L
81/05/03	13 00		10K	10K	10K	190.0	90.0	30	200	ON	0.020K	2.0
	20 45		20	10K	30	330.0	90.0	10K	120	ON	0.020K	0.5
81/05/05	08 30		10K	10	10K	200.0	140.0	20	60	290	0.020K	3.0
81/05/12	07 30		10K	20	10K	150.0	90.0	190K	190	32	0.020K	2.0
81/05/13	09 30		30	10	10K	180.0	80.0	20	50	520	0.080	2.0
81/05/16	14 30		10K	30	30	190.0	80.0	20	70	ON	0.020K	3.0
	18 00		40	10K	10K	180.0	90.0	20	40	ON	0.020K	3.0
81/05/17	11 00		10	10K	10K	220.0	80.0	20	60	ON	0.090	3.0
	23 00		40	10K	60	200.0	60.0	20	30	ON	0.050	4.0
81/05/19	08 30		10K	10K	40	180.0	70.0	30K	30	40	0.020K	4.0
81/05/26	08 00		10K	10K	10K	140.0	70.0	10K	20	64	0.020K	2.0
81/05/28	12 00		10K	10K	10K	300.0	10.0K	10K	80	ON	0.020K	2.0
	21 00		10K	10K	10K	160.0	30.0	10	70	ON	0.020K	1.0
81/06/02	09 00		10K	10K	20	220.0	100.0	20	90	ON	0.020K	1.0
81/06/09	08 30		10K	10K	10K	200.0	150.0	10K	50	70	0.020K	5.0
81/06/16	09 00		10K	10K	10K	180.0	150.0	30	30	220	0.020K	2.0
81/06/23	08 30		10K	10K	10	230.0	10.0K	20	40	100	0.070	1.0
81/06/30	08 00		60	10K	10	430.0	310.0	30	40	2400	0.020K	3.0
81/07/07	08 15		30	10K	10	390.0	210.0	10	90	320	0.020K	2.0
81/07/14	06 30		10K	10K	10K	230.0	90.0	30K	30	4600	0.020K	1.0
81/07/21	08 30		10K	10K	10K	150.0	20.0	10K	40	50	0.020K	3.0
81/07/26	20 30		10K	10K	30	320.0	50.0	20	70	ON	0.020K	8.0
81/07/27	03 00		40	10K	10	420.0	10.0K	20	80	ON	0.020K	5.0
	08 30		30	10K	10	230.0	10.0K	20	60	ON	0.020K	5.0
81/07/28	08 30		10K	10K	10K	120.0	70.0	30	30	400	0.020K	5.0
81/08/04	08 30		10K	10K	10K	90.0		20	30	320	0.700	9.0
81/08/12	14 00		10K	10K	10K	110.0	80.0	10K	30	ON	0.030	2.0
81/08/18	08 00		10K	10K	10K	100.0	40.0	10K	70	110	0.020K	6.0
81/08/25	08 30		10K	10K	10K	120.0	20.0	10K	80	80	0.010K	7.0
81/09/01	08 30		10K	10	10K	90.0	60.0	10	20	64	0.020K	6.0
81/09/08	08 30		10	10K	10K	70.0	60.0	10	20	160	0.090	2.0
81/09/15	08 30		10K	10K	10K	100.0	40.0	10K	10	112	0.050	5.0
81/09/22	08 30		10K	10K	10K	90.0	70.0	20	20	130	0.050	2.0
81/09/29	08 30		20	10K	10K	100.0	90.0	10K	10	440	0.100	3.0

Table 348.--Water-quality data for station 06711590  
South Platte River at Florida Avenue, at Denver

[J indicates estimated; K indicates less than; N indicates not requested; 0 indicates lost sample]

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTIV AT 25C MICROMHU	DO PRIME MG/L	COD LOWLEVEL MG/L	COD HI LEVEL MG/L	PH SU	T ALK CACN3 MG/L	RESIDUE DISS-105 C MG/L	RESIDUE TOT NFLT MG/L
81/02/24	09 00		5.0	112J	781	8.6		27	7.20	166		21
81/04/07	09 45			112	800			23		172	522	40
81/04/14	10 00			228	630			26		134	347	74
81/04/21	09 45			253	540			29		125	299	97
81/04/24	10 00			142	680			20		146	390	27
81/05/29	03 30			500	340			28		76	215	285
	10 30			323	450			35		113	287	508
81/05/30	10 30			327	491			40		211	298	166
81/06/02	10 00		16.3	199	567	8.1		00	7.75	148	0N	44
81/06/09	10 00		20.5	104	725			24	7.75	179	494	26
81/06/16	10 30		18.0	98	832	7.3		24	7.80	184	505	29
81/06/23	09 30		23.2	86	877	8.6		23	7.60	195	542	15
81/06/30	09 30		18.7	135	591	6.2		40	7.50	133	404	240
81/07/07	09 30		23.0	115	660	9.6		20	7.50	173	428	33
81/07/14	07 30		19.0	124	706	6.2		45	7.50	155	445	72
81/07/21	10 30		21.2	197	580	6.3		15	7.90	128	328	64
81/07/26	21 00		18.5	361	581			37	7.80	407	347	98
	22 30		18.0	371	431			74	7.80	87	263	182
81/07/27	02 30		17.5	347	453			65		88	272	242
	09 30		17.0	283	475			50	8.30	105	307	277
81/07/28	09 30		20.5	255	540	7.2		11	7.80	118	331	72
81/08/04	10 00		21.5	166	500	7.6		16	7.60	130	361	52
81/08/12	15 00		22.0	152	760			35	7.80	106	506	23
81/08/18	10 00		19.0	219	580	6.9		14	7.90	123	338	62
81/08/25	10 00		19.8	251	520	7.3		24	7.40	116	311	53
81/09/01	10 00		18.6	124	710	7.7		36	7.30	166	655	29
81/09/08	10 30		17.2	148	691	7.7		24	7.80	157	444	25
81/09/15	10 00		18.0	238	489			19	7.90	119	318	36
81/09/22	10 00		18.5	126	715	6.2		16	7.90	162	442	17
81/09/29	10 00		17.3	104	760	6.3		12	7.50	175	507	17

Table 348.--Water-quality data for station 06711590  
South Platte River at Florida Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	NH3+NH4- N DISS MG/L	NH3+NH4- N TOTAL MG/L	NO2-N DISS MG/L	NO2-N TOTAL MG/L	KJELD N DISS MG/L	TOT N MG/L	NO2&NO3 N-TOTAL MG/L	NO2&NO3 N-DISS MG/L	PHOS-TOT MG/L	PHOS-DIS MG/L
81/02/24	09 00			3.100		0.040		4.100	1.45		1.500	
81/04/07	09 45			2.800		0.050		3.400	1.15		1.800	
81/04/14	10 00			2.200		0.030		3.500	0.85		0.400	
81/04/21	09 45			1.400		0.030		2.600	0.86		0.640	
81/04/28	10 00			2.800		0.070		3.800	0.93		1.120	
81/05/29	03 30			0.690		0.030		2.500	0.57		0.740	
	10 30			1.520		0.040		3.200	0.62		1.200	
81/05/30	10 30			0.900		0.040		2.300	0.64		0.520	
81/06/02	10 00			1.810		0.040		3.300	0.71		0.940	
81/06/09	10 00			3.200		0.090		4.500	1.08		1.800	
81/06/16	10 30			3.800		0.110		4.400	1.11		2.200	
81/06/23	09 30			4.100		0.100		5.400	0.97		2.650	
81/06/30	09 30		2.400	2.400	0.060	0.080	3.500	4.100	0.94	0.83	1.450	1.020
81/07/07	09 30			3.500		0.090		5.000	0.78		1.530	
81/07/14	07 30			2.200		0.070		4.500	0.68		1.070	
81/07/21	10 30			1.800		0.030		5.700	0.46		0.810	
81/07/26	21 00			3.200		0.070		5.700	0.53		0.960	
	22 30			2.200		0.050		4.600	0.59		0.900	
81/07/27	02 30			1.600		0.050		3.000	0.48		0.790	
	09 30			1.300		0.070		3.200	1.00		0.700	
81/07/28	09 30		1.600	1.600	0.030	0.050	2.300	2.700	0.41	0.36	0.720	0.620
81/08/04	10 00			1.800		0.040		3.200	0.43		1.100	
81/08/12	15 00			5.000		0.070		6.600	0.73		1.350	
81/08/18	10 00			1.800		0.050		0.800	0.48		0.020K	
81/08/25	10 00		2.000	2.200	0.040	0.050	2.600	3.700	0.41	0.36	0.750	0.710
81/09/01	10 00			3.700		0.080		4.800	0.94		1.250	
81/09/08	10 30			3.000		0.090		4.100	0.74		1.160	
81/09/15	10 00			1.960		0.060		3.300	0.34		0.700	
81/09/22	10 00			3.100		0.070		4.400	0.65		1.400	
81/09/29	10 00			3.800		0.100		4.500	0.89		1.200	



Table 348.--Water-quality data for station 06711590  
South Platte River at Florida Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	T ORG C MG/L	D ORG C MG/L	TOT HARD CACO3 MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,DISS UG/L	CADMIUM CD,TOT UG/L	COPPER CU,DISS UG/L	COPPER CU,TOT UG/L	IRON FE,TOT UG/L
81/02/24	09 00		9.0		240	58.00	42	1K	3		20	410
81/04/07	09 45		44.0		257	67.00	54	1K	1K	10K	10K	1420
81/04/14	10 00		8.0		204	48.00	42	1K	1K	10K	10K	2320
81/04/21	09 45		6.0		177	40.00	37	1K	1K	10K	10K	3540
81/04/28	10 00		9.0		221	50.00	47	1K	1K	10K	10K	1280
81/05/29	03 30		12.0		115	24.00	22	1K	1	10K	50	11900
	10 30		16.0		165	32.00	25	1K	1K	10K	50	21200
81/05/30	10 30		8.0		176	34.00	28	1K	2	10K	30	4780
81/06/02	10 00		5.0		209	45.00	38	1K	2	10K	50	1600
81/06/09	10 00		6.0		250	64.00	53	1K	1K	10K	30	1070
81/06/16	10 30		5.0		255	71.00	56	1K	1K	10K	20	1280
81/06/23	09 30		8.0		266	76.00	52	1K	1K	10K	100	780
81/06/30	09 30		15.0	9.0	185	51.00	32	1	1K	10K	30	10700
81/07/07	09 30		10.0		224	55.00	47	1K	2	10K	20	1400
81/07/14	07 30		9.0		213	52.00	42	1K	1K	10K	10K	3100
81/07/21	10 30		0.00		196	44.00	42	1K	1	10K	10	2300
81/07/26	21 00		10.0		151	52.00	52	1K	2	10K	30	2700
81/07/27	02 30		22.0		128	34.00	32	1K	1K	10K	30	5700
81/07/27	22 30		16.0		133	34.00	34	1K	1K	10K	60	17800
81/07/27	09 30		12.0		151	35.00	30	1K	1K	10K	30	10100
81/07/28	09 30		8.0	5.0	168	40.00	36	1K	1K	10K	10K	2210
81/08/04	10 00		20.0		184	47.00	40	1K	1K	10K	50	1250
81/08/12	15 00		8.0		252	69.00	57	1K	1	10K	50	1100
81/08/18	10 00		15.0		175	42.00	39	1	1	10K	70	1870
81/08/25	10 00		8.0	7.0	165	39.00	38	1K	2	10K	30	1740
81/09/01	10 00		25.0		222	55.00	52	1K	1	10K	30	810
81/09/08	10 30		69.0		204	54.00	46	1	1K	10K	60	750
81/09/15	10 00		13.0		162	38.00	41	1K	1K	10K	30	840
81/09/22	10 00		10.0		220	57.00	48	1K	1	10K	30	550
81/09/29	10 00		10.0		241	62.00	56	1K	1K	10K	60	530

Table 348.--Water-quality data for station 06711590  
South Platte River at Florida Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	IRON FE, DISS UG/L	LEAD PB, DISS UG/L	LEAD PB, TOT UG/L	MANGNESE MN UG/L	MANGNESE MN, DISS UG/L	ZINC ZN, DISS UG/L	ZINC ZN, TOT UG/L	FEC COLI M-FCAGAR /100ML	PHOS-T ORTHO MG/L P	BOD 20C 5DAY CAR MG/L
81/02/24	09 00		30	10K	30	270.0	220.0	20	20	10	1.100	5.0
81/04/07	09 45		10K	10K	10K	230.0	170.0	10K	50	9	1.020	4.0
81/04/14	10 00		10K	10K	10K	180.0	90.0	10K	50	104	0.260	4.0
81/04/21	09 45		10K	10K	10K	200.0	60.0	30	60	160	0.450	3.0
81/04/28	10 00		10K	10K	10K	190.0	120.0	40	40	100	0.900	4.0
81/05/29	03 30		50	10K	60	350.0	40.0	20	170	30000	0.210	6.0
	10 30		50	10K	40	480.0	30.0	20	170	ON	0.490	6.0
81/05/30	10 30		10	10K	10K	240.0	60.0	30	70	450	0.250	2.0
81/06/02	10 00		10K	10K	20	200.0	120.0	30	150	150	0.750	3.0
81/06/09	10 00		10K	10K	10	300.0	260.0	10K	60	600	1.530	2.0
81/06/16	10 30		30	10K	30	340.0	320.0	30	60	700	1.890	7.0
81/06/23	09 30		10K	10K	30	320.0	300.0	20	30	58	2.390	6.0
81/06/30	09 30		40	10K	20	330.0	120.0	20	80	5300	0.940	9.0
81/07/07	09 30		30	10K	10	270.0	210.0	20	180	230	1.240	8.0
81/07/14	07 30		10K	10K	10K	290.0	180.0	30	350	16000	0.850	5.0
81/07/21	10 30		10K	10K	40	210.0	20.0	20	190	390	0.640	5.0
81/07/26	21 00		10K	10K	40	180.0	60.0	70	80	ON	0.800	10.0
	22 30		30	10K	60	240.0	60.0	30	130	ON	0.500	15.0
81/07/27	02 30		10K	10K	100	650.0	30.0	30	250	ON	0.400	12.0
	09 30		10K	10K	20	320.0	60.0	30	80	ON	0.400	6.0
81/07/28	09 30		10K	10K	10K	190.0	10.0K	10K	40	300	0.500	4.0
81/08/04	10 00		10K	10K	10	210.0	10.0K	50	60	840	0.020K	8.0
81/08/12	15 00		10K	10K	10K	220.0	210.0	20	250	ON	1.200	4.0
81/08/18	10 00		30	10K	20	160.0	140.0	10	60	200	0.480	5.0
81/08/25	10 00		30	10K	10K	160.0	90.0	10	30	200	0.560	7.0
81/09/01	10 00		20	10K	10K	250.0	240.0	30K	30	180	1.000	4.0
81/09/08	10 30		20	10K	10K	200.0	170.0	30	30	260	0.900	3.0
81/09/15	10 00		30	10K	10K	150.0	90.0	30	30	390	0.500	6.0
81/09/22	10 00		20	10K	10K	190.0	170.0	10	30	2100	1.180	7.0
81/09/29	10 00		20	10K	10K	220.0	220.0K	80	120	1400	1.040	5.0

Table 349.--Water-quality data for station 06713500  
Cherry Creek at Denver

[B indicates nonideal colony count; J indicates estimated; K indicates less than;  
N indicates not requested; O indicates lost sample]

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CNDUCTIVY AT 25C MICROMHO	DO PROBE MG/L	COD LOWLEVEL MG/L	COD HI LEVEL MG/L	PH SU	RESIDUE TOT NFLT MG/L	NH3+NH4= N TOTAL MG/L	NO2+N TOTAL MG/L
80/04/01	10	30	5.5	21	137	11.2	35.0		8.10	1	0.980	
80/04/08	10	30	9.3	18	1322	12.2		140	8.15	748	0.120	
80/04/15	11	45	17.0	10	1197	7.4		120	8.20	574	0.170	
80/04/22	10	45	17.0	13	1170	7.0		130	8.25	624	0.100	
80/04/29	11	30	16.0	9	1287	10.2		230	8.20	1490	0.260	
80/05/06	11	00	17.0	11	1120	8.2		426	8.05	4360	0.400	0.120
80/05/13	11	15	17.0	14	1050	9.0		136	8.40	1340	0.100	0.040
80/05/20	11	30	17.0	12	1780	9.0		89	8.35	601	0.100	0.070
80/05/28	11	15	20.5	18	980	8.5	19.0		8.60	75	0.100	0.030
80/06/03	10	30	20.0	20	900	7.9	15.0		8.60	242	0.100K	0.030
80/06/10	11	15	24.0	18		7.4	46.0		8.70	346	0.100	0.040
80/06/17	11	15	23.0	15	1000	6.5		525	8.30	3850	0.200	0.020
80/06/24	11	15	25.0	15	960	6.4		128	8.40	851	0.100	0.060
80/07/01	11	30	24.0	20	943	6.5	27.0		8.40	279	0.060	0.090
80/07/08	11	45	27.0	16	942	7.0		123	8.30	1140	0.170	0.050
80/07/11	22	15	21.5	47	448			188	8.00	712	0.710	0.230
80/07/12	23	30	20.5	33	553			142	8.00	940	0.470	0.010
80/07/12	01	45	20.0	33	645			84	7.90	781	0.260	0.070
80/07/12	05	30	17.0	23	757		37.0		8.20	196	0.060	0.040
80/07/15	11	00	24.0	16	930	6.5		213	8.20	2790	0.180	0.040
80/07/22	10	45	25.0	18	960	5.5		288	7.90	2630	0.200	0.050
80/07/29	11	00	25.0	14	1060	5.7		160	8.70	2540	0.180	0.070
80/08/05	11	15	23.5	16	1010	6.1		64	8.20	1110	0.090	0.050
80/08/12	11	15	25.0	18	1010	6.6		64	8.30	1220	0.120	0.050
80/08/14	14	45	22.0	20	1040			248	8.35	3620	0.190	0.080
80/08/14	15	30	23.0	75	390			740	8.30	10300	1.120	0.640
80/08/15	16	45	21.0	740	260			451	8.35	6110	1.040	0.330
80/08/17	17	00	21.0	254	290			529	7.85	3980	1.060	0.010
80/08/18	18	05	21.0	179	360			353	7.50	3940	0.940	0.010K
80/08/20	22	00	20.5	128	390			165	7.80	1820	0.440	0.080
80/08/20	23	45	20.0	96	470			106	7.60	1150	0.320	0.060
80/08/21	11	30	22.0	65	720			145	8.00	1410	1.050	0.060
80/08/19	11	15	24.0	32	1340	6.7		78	8.60	1320	0.120	0.050
80/08/26	12	15	23.0	39	900	7.0		52	7.95	351	0.080	0.050
80/09/02	10	00	17.5	42	859	6.5	34.0		8.00	404	0.070	0.020
80/09/09	00	15	16.0	76	442	8.0		155	8.30	862	1.010	0.130

Table 349.--Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	TOT KJEL N MG/L	NO2&NO3 N-TOTAL MG/L	PHOS-TOT MG/L P	T ORG C C MG/L	SODIUM NA, TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD, DISS UG/L	CADMIUM CD, TOT UG/L	COPPER CU, DISS UG/L	COPPER CU, TOT UG/L
80/04/01	10 30		2.700	3.40	0.550	39.0		420		2		49
80/04/08	10 30		4.000	3.10	1.600	27.0				3		53
80/04/15	11 45		3.400	3.10	1.500	40.0				3		32
80/04/22	10 45		3.300	2.50	1.400	30.0		120		2		48
80/04/29	11 30		10.000	3.40	2.100	76.0				4		150
80/05/06	11 00		14.500	3.32	3.750	116.0	125.00	110	1K	23	10K	120
80/05/13	11 15		5.000	2.74	0.750	56.0	90.00	91	1K	10	10K	220
80/05/20	11 30		4.000	3.12	1.100		108.00	104	1K	16	10K	90
80/05/28	11 15		1.800	2.56	0.500	8.0	76.00	88	1K	4	10K	10
80/06/03	10 30	0.300K	0.300K	2.60	0.700	14.0	72.00	74	3	7	10K	40
80/06/10	11 15	2.600	2.600	2.74	0.700	15.0	85.00	86	2	6	10K	50
80/06/17	11 15	13.000	13.000	2.67	4.310	156.0	46.00	87	2	26	10K	260
80/06/24	11 15	4.500	4.500	2.52	1.340	34.0	91.00	88	1K	11	20	100
80/07/01	11 30	1.500	1.500	2.08	0.700	16.0	84.00	88	1K	8	20	40
80/07/08	11 45	3.500	3.500	2.88	1.740	34.0	91.00	90	4	10	10K	210
80/07/11	22 15	3.500	3.500	0.34	1.210	56.0	40.00	38	3K	3	50	70
80/07/11	23 30	3.000	3.000	1.58	1.210	40.0	55.00	51	4K	4	10K	90
80/07/12	01 45	2.300	2.300	1.72	0.950	29.0	58.00	54	2K	2	10K	30
80/07/12	05 30	1.200	1.200	2.16	0.550	22.0	74.00	70	4K	4	10K	60
80/07/15	11 00	5.800	5.800	2.68	2.810	59.0	86.00	85	1K	10	10K	480
80/07/22	10 45	8.400	8.400	2.58	2.880	76.0	94.00	89	1K	12	10K	180
80/07/29	11 00	5.100	5.100	2.59	2.480	44.0	91.00	97	1K	4	10K	160
80/08/05	11 15	2.700	2.700	3.08	1.330	22.0	92.00	96	7K	7	10K	70
80/08/12	11 15	2.800	2.800	2.54	1.400	22.0	80.00	96	1K	3	10K	70
80/08/12	14 45	7.400	7.400	2.60	3.290	72.0	91.00	106	3	10	30	230
80/08/14	15 30	17.000	17.000	1.38	7.300	158.0	22.00	32	1K	180	30	730
80/08/15	16 45	10.000	10.000	0.69	4.350	123.0	14.00	17	1K	14	10K	440
80/08/17	17 00	10.300	10.300	0.05	3.630	215.0	18.00	20	2	12	10K	280
80/08/18	18 05	10.600	10.600	0.07	4.130	199.0	30.00	39	4	6	50	170
80/08/22	22 00	5.400	5.400	1.23	2.050	48.0	30.00	34	1K	3	20	90
80/08/23	23 45	3.700	3.700	1.38	1.400	36.0	37.00	42	2	10	30	120
80/08/15	11 30	4.200	4.200	1.57	0.850	49.0	64.00	64	8	3	20	80
80/08/19	11 15	4.300	4.300	3.08		27.0	129.00	187	3K	3	10K	40
80/08/26	12 15	1.700	1.700	2.24	0.800	17.0	68.00	78	1K	2	20	30
80/09/02	10 00	1.600	1.600	2.24	0.500	8.0	65.00	78	3K	3	10K	30
80/09/09	00 15	5.100	5.100	1.50	0.920	63.0	34.00	37	1	5	10K	60

Table 349.--Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	IRON FE, TOT UG/L	IRON FE, DISS UG/L	LEAD PB, DISS UG/L	LEAD PB, TOT UG/L	MANGNESE MN UG/L	MANGNESE MN, DISS UG/L	ZINC ZN, DISS UG/L	ZINC ZN, TOT UG/L	FEC COLI M-FCAGAR /100ML	FEC COLI MPNECMED /100ML
80/04/01	10	30	7900			270	280.0			240		
80/04/08	10	30	19000			420	830.0			420		
80/04/15	11	45	19000			320	600.0			300		
80/04/22	10	45	21000			300	600.0			310		
80/04/29	11	30	43000			700	1200.0			830		
80/05/06	11	00	180000	20	10K	160	2800.0	160.0	20K	190	92000	
80/05/13	11	15	59000	10K	10K	110	1100.0	80.0	10K	770	1700	
80/05/20	11	30	22000	100	10K	21	370.0	50.0	20	320	3000	
80/05/28	11	15	2200	10K	10K	40	70.0	30.0	10K	90	37000	
80/06/03	10	30	12000	10K	10K	90	240.0	30.0	10K	200	52000	
80/06/10	11	15	16000	10K	20	90	280.0	40.0	20	180	12000	
80/06/17	11	15	52000	20	10	110	1200.0	60.0	10	100		1700
80/06/24	11	15	32000	10K	10K	460	600.0	80.0	30	460	10000L	
80/07/01	11	30	10000	180	10K	80	280.0	110.0	40	120	55000	
80/07/08	11	45	46000	10K	10K	30	800.0	80.0	40	600	51000	
80/07/11	22	15	14700	1200	70	200	390.0	170.0	100	290		240000
80/07/11	23	30	14000	200	10K	200	450.0	70.0	30	290		79000
80/07/12	01	45	8300	30	10K	130	300.0	30.0	20	170	1000	
80/07/12	05	30	4400	10K	10K	90	150.0J	150.0	30	170	40000	
80/07/15	11	00	730	90	10K	900	1700.0	80.0	30	1400	6000	
80/07/22	10	45	57000	10K	10K	800	1300.0	120.0	10K	1000	36000	
80/07/29	11	00	560	440	20	590	1300.0	150.0	20	670	17000	
80/08/05	11	15	26000	10K	30	220	660.0	70.0	20	320		
80/08/12	11	15	28000	20	10K	210	580.0	80.0	10K	300	7000	
80/08/12	11	15	110000	2600	90	830	1800.0	420.0	190	1050	1000K	
80/08/14	14	45	120000	100	10K	1640	3000.0	90.0	80	2700		220000
80/08/14	15	30	99000	80	10K	1440	1890.0	150.0	40	2000	20000	
80/08/14	16	45	96000	90	10K	1050	2600.0	170.0	30	1500	390000	
80/08/14	17	00	90000	5600	180	610	2500.0	680.0	290	860		170000
80/08/14	18	05	90000	80	10K	300	1300.0	70.0	30	470		110000
80/08/14	22	00	480	730	20			150.0	80			460000
80/08/14	23	45		680	10K	270	860.0	120.0	90	560	1000K	
80/08/15	11	30	35000	30	10K	100	820.0	30.0	50	320	400	
80/08/19	11	15	45000	100	10K	60	200.0	60.0	40	130	880	
80/08/26	12	15	9200	10K	10K	140	200.0	10.0K	20	180	7	
80/09/02	10	00	7200	10K	30	190	350.0	50.0	70	280	18000	
80/09/09	00	15	9200	100								

Table 349.--Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	PHOS-P ORTHO MG/L P	BOD 20C SDAY CAR MG/L
80/04/01	10 30		0.320	
80/04/08	10 30		0.600	
80/04/15	11 45		0.530	
80/04/22	10 45		0.430	
80/04/29	11 30		0.330	
80/05/06	11 00		0.200	11.0
80/05/13	11 15		0.230	4.0
80/05/20	11 30		0.300	4.0
80/05/28	11 15		0.300	4.0
80/06/03	10 30		0.300	5.0
80/06/10	11 15		0.300	4.0
80/06/17	11 15		0.200	11.0
80/06/24	11 15		0.280	4.0
80/07/01	11 30		0.350	6.0
80/07/08	11 45		0.280	6.0
80/07/11	22 15		0.200	28.0
80/07/12	23 30		0.300	15.0
80/07/12	01 45		0.320	6.0
80/07/15	05 30		0.300	5.0
80/07/22	11 00		0.210	4.0
80/07/29	10 45		0.250	7.0
80/07/29	11 00		0.300	4.0
80/08/05	11 15		0.280	5.0
80/08/12	11 15		0.510	5.0
80/08/14	14 45		0.490	6.0
80/08/14	15 30		0.190	62.0
80/08/14	16 45		0.130	40.0
80/08/14	17 00		0.280	90.0
80/08/14	18 05		0.300	33.0
80/08/14	22 00		0.260	8.0
80/08/14	23 45		0.340	8.0
80/08/15	11 30		0.390	16.0
80/08/19	11 15		0.380	6.0
80/08/26	12 15		0.340	4.0
80/09/02	10 00		0.300	4.0
80/09/09	00 15		0.300	30.0

Table 349.---Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTIV AT 25C MICROMHO	DO PROBE MG/L	COD LOWLEVEL MG/L	COD HI LEVEL MG/L	PH SU	RESIDUE TOT NFLT MG/L	NH3+NH4= N TOTAL MG/L	NO2-N TOTAL MG/L
80/09/09	03 45		15.0	120	330	7.2		101	8.10	556	0.590	0.060
	09 30		14.5	98	374	8.9		92	7.40	503	1.610	0.600
80/09/10	10 15		15.0	53	781	7.9	40.0			106	0.060	0.050
80/09/16	10 00		14.5	20	1040	8.0	23.0		8.40	26	0.050	0.040
80/09/23	10 30		16.0	12	1120	9.6	20.0		7.90	13	0.060	0.040
80/09/30	11 00		15.0	9	1190	10.2	13.0		8.20	16	0.050K	0.080
80/10/07	11 15		15.0	14	1035	8.7J	23.0		8.10	41	0.050	0.040
80/10/14	10 15		14.0	18	870	9.3J	21.0		8.30	36	0.100	0.030
80/10/21	11 30		14.0	12	995		18.0		7.30	14	0.080	0.040
80/10/28	10 30			11	1100	8.9	55.0		8.40	17	0.200	0.120
80/11/04	10 45		16.5	8	1170	9.5	15.0		8.40	3	0.050	0.070
80/11/11	11 30		15.7	9	1120	10.9	13.0		8.50	7	0.070	0.070
80/11/18	11 30		13.7	6	1130	9.6	16.0		8.60	11	0.160	
80/11/25	12 00		10.7	11	2860	9.6		114	8.10	74	1.000	0.140
80/12/02	12 15		10.0	10	969	12.4	14.0		8.70	9	0.060	0.070
80/12/09	11 30		11.2	9	1320	10.6	17.0		8.60	12	0.900	0.040
80/12/16	11 30		13.0	9	1190	12.0	22.0		8.40	7	0.120	0.050
80/12/30	12 00		11.8	8	1190	11.5	32.0		8.70	23	0.090	0.060

Table 349.--Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	TOT KJEL N MG/L	NO2&NO3 N-TOTAL MG/L	PHOS-TOT MG/L P	T ORG C MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,DISS UG/L	CADMIUM CD,TOT UG/L	COPPER CU,DISS UG/L	COPPER CU,TOT UG/L
80/09/09	03 45		2.700	1.11	0.880	32.0	24.00	26	3K	3	10K	70
	09 30		4.000	1.06	2.180	24.0	30.00	32	1K	2	10K	40
80/09/10	10 15		1.400	2.40	0.500	14.0	61.00	65	1K	1	10K	20
80/09/16	10 00			3.54	0.600	6.0	96.00	96	1K	3	10K	20
80/09/23	10 30		1.000	3.76	0.540	2.0	96.00	100	1K	1	10K	30
80/09/30	11 00		1.200	3.80	0.720	16.0	105.00	120	1K	1	10K	10
80/10/07	11 15		1.000	2.84	2.050	8.0	85.00	94	1K	1	20	40
80/10/14	10 15		1.000	2.20	0.330	5.0	72.00	86	1K	1	10K	30
80/10/21	11 30		1.300	3.20	0.520	2.0	92.00	94	1K	1	20	50
80/10/28	10 30		1.800	4.05	0.360	10.0	104.00	102	1K	5	20	30
80/11/04	10 45		0.300	4.40	0.400	2.0	112.00	114	1K	1	20	30
80/11/11	11 30		1.400	3.70	0.550	4.0	109.00	116	1K	1	20	30
80/11/18	11 30		1.400	4.20	0.340	6.0	109.00	116	1K	1	30K	30
80/11/25	12 00		2.500	3.22	0.470	26.0	495.00	732	1K	2	30	50
80/12/02	12 15		1.400	3.20	0.550	7.0	93.00	98	1K	1	30K	30
80/12/09	11 30		2.000	4.35	1.510	5.0	133.00	170	3K	3	20	30
80/12/16	11 30		0.600	4.55	0.600	4.0	112.00	121	1K	3	30K	30
80/12/30	12 00		1.300	4.60	0.500	42.0	119.00	127	5K	5	20	60



Table 349.--Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	IRON FE,TOT UG/L	IRON FE,DISS UG/L	LEAD PB,DISS UG/L	LEAD PB,TOT UG/L	MANGNESE MN UG/L	MANGNESE MN,DISS UG/L	ZINC ZN,DISS UG/L	ZINC ZN,TOT UG/L	FEC COLI M-FCAGAR /100ML	FEC COLI MPNECMED /100ML
80/09/09	03 45		12000	90	10	110	430.0	30.0	70	240	100000	
	09 30		8500	120	10K	130	300.0	20.0	30	200	3600	
80/09/10	10 15		3300	10K	10K	40	120.0	10.0K	30	60	5000	
80/09/16	10 00		890	10K	10K	40	50.0	10.0K	30	50	410000	
80/09/23	10 30		300	10K	10K	10	50.0	10.0K	30K	30	26000	
80/09/30	11 00		470	10K	10K	10	60.0	10.0K	20	110	6700	
80/10/07	11 15		1500	10K	10K	10	80.0	20.0	30	60	32000	
80/10/14	10 15		1040	10K	10K	10	90.0	20.0	90K	90	13000	
80/10/21	11 30		580	10K	10K	10	70.0	20.0	40K	40	6200	
80/10/28	10 30		400	10K	10K	60	100.0	90.0	50	100	61000	
80/11/04	10 45		180	10K	10K	20	30.0	30.0K	111	130	6000	
80/11/11	11 30		220	10K	50K	50	50.0	30.0	30	230	3200	
80/11/18	11 30		360	10K	10K	10	120.0	100.0	30	40	28000	
80/11/25	12 00		2200	20	10K	120	200.0	140.0	130	180	24000	
80/12/02	12 15		220	10K	20K	20	60.0	30.0	60K	60	3900	
80/12/09	11 30		280	10K	10K	10	70.0	60.0	100	110	2000	
80/12/16	11 30		180	10K	10K	20	70.0	70.0K	40	60	3100	
80/12/30	12 00		780	10K	10K	50	80.0	50.0	60K	60	4500	

Table 349.--Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	PHOS-T ORTHO MG/L P	BOD 20C SDAY CAR MG/L
80/09/09	03 45		0.300	14.0
	09 30		1.400	11.0
80/09/10	10 15		0.300	5.0
80/09/16	10 00		0.520	3.0
80/09/23	10 30		0.460	3.0
80/09/30	11 00		0.580	4.0
80/10/07	11 15		1.790	4.0
80/10/14	10 15		0.190	4.0
80/10/21	11 30		0.380	3.0
80/10/28	10 30		0.360	7.0
80/11/04	10 45		0.400	3.0
80/11/11	11 30		0.550	2.0
80/11/18	11 30		0.280	4.0
80/11/25	12 00		0.240	23.0
80/12/02	12 15		0.400	3.0
80/12/09	11 30		1.220	2.0
80/12/16	11 30		0.500	3.0
80/12/30	12 00		0.300	2.0

Table 349.--Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTIVITY AT 25C MICROMHO	D/D PROBE MG/L	COD LOWLEVEL MG/L	COD HI LEVEL MG/L	PH	T ALK CAC03 MG/L	RESIDUF DISS-105 C MG/L	RESIDUE TOT NFLT MG/L
81/01/06	11 00			8	1190		15.0			243		8
81/01/13	11 45			9	1180		23.0			240		17
81/01/20	10 30			8	1150		14.0			239		97
81/01/27	12 00			10	1114		17.0			217		20
81/02/03	11 30			12	1770		22.0			225		17
81/02/10	12 00			13	1070		18.0			225		59
81/02/17	11 00			12	1140		15.0			230		16
81/02/24	09 45			11	1250		18.0			243		115
81/03/03	11 00			13	1230		50.0			246		421
	15 00			30	905			269		145	602	843
	17 45			30	903			185		148	548	397
81/03/04	11 00			40	1290			260		109	736	473
	17 15			67	580			211		65	360	816
81/03/05	11 00			15	2200			128		157	355	312
	17 00			67	560			184		73	754	911
81/03/06	10 00			13	1110			80		201		605
81/03/10	11 30			11	1220		25.0			220		51
81/03/17	11 00			12	1220		26.0			236		19
81/03/24	11 00			13	1180		16.0			230		14
81/03/31	10 15			8	1120		18.0			215		16
81/04/03	08 30			63	440			360		70	111	527
	11 00			63	360			124		61	181	530
	14 00			60	480			89		76	279	312
	22 15			25	758			43		135	500	128
81/04/04	12 15			13	1060			18		192	641	21
81/04/07	11 15			10	1390			20		252	888	10
81/04/14	12 00			8	1150			26		226	716	12
81/04/21	10 45			6	1220			22		229	743	14
81/04/28	11 30			8	870			21		179	577	16
81/05/03	13 45			16	785			53		147	516	108
	14 00			20	619			428		139	421	2980
	14 45			57	208			445		52	146	2560
	18 30			115	373			171		77	247	990
81/05/04	10 30			53	660			63		133	412	183
81/05/05	11 30			23	881			11		180	539	25
81/05/12	09 30			26	930			24		189	570	7
81/05/13	00 15			123	300			107		48	199	339
	11 15			35	770			17		135	449	61
81/05/16	14 30			80	342			85		65	227	284
	16 45			35	596			67		113	369	251
81/05/17	12 30			110	344			95		67	240	463
	18 45			275	200			89		43	155	116
81/05/18	10 30			53	530			27		99	340	167
81/05/19	11 15			10	1100			18		208	900	11

Table 349 --Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	AM3+-AM4- % TOTAL MG/L	NO2-N TOTAL MG/L	TOT KJEL N MG/L	NO2&NO3 N-TOTAL MG/L	PHOS-TOT MG/L P	T URG C C MG/L	TOT HARD CACO3 MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,DISS UG/L
81/01/06	11 00		0.050	0.080	1.200	2.20	0.000	2.0	400	148.00	183	1K
81/01/13	11 45		0.120	0.070	1.700	4.10	0.460	11.0	368	113.00	122	1K
81/01/20	10 30		0.060	0.130	1.200	4.50	0.480	6.0	362	108.00	118	2K
81/01/27	12 00		0.070	0.110	1.400	3.84	0.510	6.0	344	110.00	121	1K
81/02/03	11 30		0.200	0.100	1.800	4.16	0.560	17.0	380	240.00	300	1K
81/02/10	12 00		0.130	0.120	1.700	4.50	0.710	32.0	337	91.00	96	1K
81/02/17	11 00		0.260	0.080	1.000	4.40	0.440	6.0	380	93.00	105	2K
81/02/24	09 45		0.050	0.110	1.000	3.95	0.800	9.0	390	101.00	114	1K
81/03/03	11 00		0.120	0.100	1.600	3.50	1.050	17.0	394	100.00	116	1K
	15 00		1.600	0.520	7.200	2.90	1.790	80.0	233	90.00	111	1K
	17 45		1.300	0.220	5.500	2.60	1.380	62.0	245	83.00	100	2
81/03/04	11 00		0.700	0.090	3.800	2.10	0.800	66.0	207	180.00	274	1K
	17 15		0.700	0.060	5.000	1.20	1.190	56.0	102	63.00	98	1K
81/03/05	11 00		0.500	0.090	3.200	4.25	0.630	32.0	272	320.00	499	1K
	17 00		0.400	0.060	4.600	1.10	1.330	66.0	122	55.00	82	3K
81/03/06	10 00		0.100	0.040	2.900	3.00	0.740	72.0	334	104.00	112	1K
81/03/10	11 30		0.120	0.110	1.000	3.20	0.410		375	106.00	122	0
81/03/17	11 00		0.140	0.060	1.300	2.80	0.400		379	105.00	112	0
81/03/24	11 00		0.100	0.030	0.500	3.52	0.590		387	113.00	105	0
81/03/31	10 15		0.500	0.040	1.600	3.20	0.500	2.0	367	115.00	106	0
81/04/03	08 30		1.300	0.120	4.700	1.48	1.100	70.0	113	40.00	45	1K
	11 00		0.640	0.050	2.500	0.92	0.820	39.0	98	32.00	32	1K
	14 00		0.490	0.050	2.600	1.12	0.700	24.0	125	42.00	46	1K
	22 15		1.070	0.030	1.300	1.52	0.550	21.0	226	72.00	73	1K
81/04/04	12 15		0.170	0.020	0.400	2.60	0.400	52.0	333	99.00	94	1K
81/04/07	11 15		0.060	0.030	0.400	3.30	0.500	61.0	414	126.00	123	1K
81/04/14	12 00		0.050K	0.040	1.000	2.64	0.360	6.0	355	110.00	111	1K
81/04/21	10 45		0.080	0.050	0.800	3.90	0.330	10.0	369	34.00	127	1K
81/04/28	11 30		0.050K	0.040	1.400	1.92	0.430	8.0	272	40.00	84	1K
81/05/03	13 45		0.160	0.100	1.900	2.30	0.500	22.0	248	72.00	72	6
	14 00		0.480	0.140	11.500	1.82	4.170	138.0	332	66.00	58	1K
	14 45		0.870	0.060	11.600	0.92	3.390	136.0	132	17.00	15	1K
	18 30		0.340	0.070	4.800	0.84	1.510	138.0	142	36.00	32	1K
81/05/04	10 30		0.060	0.040	2.000	1.53	0.470	14.0	205	58.00	53	1K
81/05/05	11 30		0.140	0.100	1.200	2.48	0.420	6.0	272	79.00	79	2
81/05/12	09 30		0.480	0.020	1.400	2.64	0.220	2.0	283	75.00	86	1K
81/05/13	00 15		0.650	0.050	4.000	0.79	0.810	44.0	94	25.00	27	1
	11 15		0.140	0.030	1.100	1.45	0.450	10.0	211	63.00	66	1K
81/05/16	14 30		0.730	0.070	3.200	1.23	0.660	30.0	102	25.00	26	1K
	16 45		0.470	0.060	3.000	1.66	0.670	28.0	175	48.00	52	1K
81/05/17	12 30		0.100	0.040	3.200	0.86	0.770	28.0	131	30.00	25	1K
	18 45		0.130	0.050	3.400	0.49	0.980	24.0	67	15.00	12	1K
81/05/18	10 30		0.050K	0.030	1.100	1.58	0.490	34.0	154	49.00	36	1K
81/05/19	11 15		0.070	0.050	0.500	3.72	0.800	10.0	326	91.00	93	1K

Table 349.---Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	CADMIUM CD, TOT UG/L	COPPER CU, DISS UG/L	COPPER CU, TOT UG/L	IRON FE, TOT UG/L	IRON FE, DISS UG/L	LEAD PB, DISS UG/L	LEAD PB, TOT UG/L	MANGANESE MN UG/L	MANGANESE MN, DISS UG/L	ZINC ZN, DISS UG/L
81/01/06	11 00		1	30K	30	150	70	20K	20	150.0	90.0	20
81/01/13	11 45		3	30K	30	270	10K	10K	10	130.0	80.0	10K
81/01/20	10 30		2	30K	30	4000	50	10K	10	330.0	110.0	50K
81/01/27	12 00		1	30K	30	180	10K	10K	10	110.0	80.0	20K
81/02/03	11 30		3	10K	50	240	10K	10K	30	120.0	90.0	30
81/02/10	12 00		5	10K	70	780	10K	10K	40	220.0	150.0	70K
81/02/17	11 00		2	30	40	220	10K	10K	30	90.0	80.0	30K
81/02/24	09 45		5	30	60	3400	30	10K	60	170.0	80.0	30
81/03/03	11 00		8	10K	100	15000	10K	10K	170	320.0	60.0	30
81/03/03	15 00		9	10K	150	26000	80	10K	380	830.0	100.0	50
81/03/04	17 45		3	10K	80	130	70	10K	220	790.0	130.0	40
81/03/04	11 00		3	10K	450	13000	20	10K	580	320.0	60.0	60
81/03/05	17 15		5	40	90	20000	70	10K	360	1100.0	80.0	30
81/03/05	11 00		7	10K	80	8600	10K	10K	190	300.0	50.0	30
81/03/06	10 00		5	20	110	25000	80	10K	310	710.0	50.0	30K
81/03/10	11 30		3	30K	30	690	40	0	50	90.0	90.0K	10K
81/03/17	11 00		6	30	30	210	10	0	30	70.0	70.0K	20
81/03/24	11 00		5	30	30	290	0	0	70	300.0	30.0	20
81/03/31	10 15		1	0	30	310	20	0	10	30.0	30.0K	20
81/04/03	08 30		2	10K	70	11200	110	10K	260	420.0	60.0	60
81/04/04	12 15		3	10K	60	110	100	10K	180	450.0	30.0	40
81/04/07	11 15		2	10K	20	7600	70	10K	110	320.0	30.0	30
81/04/14	12 00		1	10K	20	4780	30	10K	40	180.0	20.0	30
81/04/21	10 45		1K	10K	10	600	10K	10K	10K	40.0	20.0	30
81/04/24	11 30		1K	10K	10	170	10K	10K	10K	40.0K	40.0	10K
81/04/24	11 30		1K	10K	20	580	10K	20	20K	30.0K	30.0	10K
81/05/03	13 45		6K	10K	80	360	10K	10K	10K	30.0	20.0	30
81/05/03	14 00		1K	10K	80	710	60	20	20K	50.0	10.0K	50
81/05/04	14 45		7	10K	420	7000	20	10K	40	210.0	20.0	60
81/05/04	16 30		2	10K	140	55000	120	10K	1500	1800.0	60.0	60
81/05/05	11 30		8	10K	190	33700	10K	10K	300	960.0	20.0	30
81/05/05	11 30		1K	10K	80	690	10K	20	510	1010.0	10.0K	20
81/05/12	09 30		1K	10K	70	200	30	10K	30	160.0	10.0K	10
81/05/13	00 15		1	10K	70	9600	50	30	10K	30.0	10.0K	30
81/05/13	11 15		1K	10K	20	2060	110	30	110	460.0	30.0	30
81/05/16	14 30		1K	10K	50	4360	30	20	30K	130.0	10.0	20
81/05/16	16 45		1K	10K	30	2460	80	10K	80	200.0	10.0K	50
81/05/17	12 30		2	10K	70	16200	40	10K	30	140.0	20.0	60
81/05/18	10 30		6	10K	50	18300	30	10K	160	540.0	10.0K	30
81/05/19	11 15		1K	10	30	10900	40	10K	170	690.0	10.0K	30
81/05/19	11 15		1K	10	30	300	10K	10K	100	330.0	10.0K	20
81/05/19	11 15		1K	10	30	300	10K	10K	10K	30.0	10.0	30

Table 349.--Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	ZINC Z <sub>INC</sub> , µg/L	FEC CULI M-FCAGAR /100mL	FEC CULI MPN/ECMED /100mL	PHOS-T ORTHO MG/L P	BOD 20C 5DAY CAR MG/L
81/01/06	11 00		60	14000		0.350	2.0
81/01/13	11 45		70	5600		0.320	4.0
81/01/20	10 30		50	33000		0.400	3.0
81/01/27	12 00		20	3000		0.340	5.0
81/02/03	11 30		50	48000		0.420	5.0
81/02/10	12 00		70	32000		0.700	12.0
81/02/17	11 00		30	7900		0.420	4.0
81/02/24	09 45		80	12000		0.590	3.0
81/03/03	11 00		180	33000		0.400	6.0
	15 00		450	11600		0.470	53.0
	17 45		230	18000		0.520	28.0
81/03/04	11 00		500		33000	0.200	20.0
	17 15		360			0.200	20.0
81/03/05	11 00		190	15200		0.300	15.0
	17 00		310			0.200	17.0
81/03/06	10 00		270	26000		0.280	4.0
81/03/10	11 30		30	19000		0.250	5.0
81/03/17	11 00		40	100		0.210	5.0
81/03/24	11 00		30	56000		0.250	2.0
81/03/31	10 15		320	8400		0.400	2.0
81/04/03	08 30		330	28000		0.750	46.0
	11 00		200	690		0.240	17.0
	14 00		150	29000		0.200	11.0
	22 15		70	12000		0.200	5.0
81/04/04	12 15		30	30000		0.380	2.0
81/04/07	11 15		30	6000H		0.420	3.0
81/04/14	12 00		30	6100		0.300	4.0
81/04/21	10 45		70	2300		0.290	5.0
81/04/28	11 30		150	6400		0.160	6.0
81/05/03	13 45		70	00		0.210	10.0
	14 00		120	0N		0.200	32.0
	14 45		1400	0N		0.190	28.0
	18 30		340	0N		0.140	10.0
81/05/04	10 30		980	0N		0.120	1.0
	11 30		100	92000		0.280	3.0
81/05/05	11 30		60	43000		0.200	2.0
81/05/12	09 30		210	12000		0.400	17.0
81/05/13	00 15		60	28000		0.280	4.0
	11 15		190	0N		0.190	4.0
81/05/16	14 30		80	0N		0.300	7.0
	16 45		170	0N		0.280	8.0
81/05/17	12 30		230	0N		0.190	8.0
	18 45		100	0N		0.300	4.0
81/05/18	10 30		70	9000		0.600	7.0
81/05/19	11 15						

Table 349.--Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CEN	STREAM FLOW, INST-CFS	CONDUCTVY AT 25C MICROMHO	DO PROBE MG/L	COD LOWLEVEL MG/L	COD HI LEVEL MG/L	PH	T ALK CACO3 MG/L	RESIDUE DISS-105 C MG/L	RESIDUE TOT NFLT MG/L
81/05/26	10 30			8	1090			19		229	701	4
81/05/28	13 00			25	600			32		123	375	94
	14 15			75	450			165		97	285	1620
	14 30			133	330			210		55	194	1140
	16 00			71	240			145		57	196	967
	18 15			186	290			147		74	248	1640
81/05/29	04 30			390	170			93		43	130	762
	11 15			117	270			90		62	156	320
81/05/30	11 30			19	785			26		180	510	30
81/06/02	12 00		18.8	14	927	7.7		20	8.40	211	ON	7
81/06/09	11 15		24.0	14	756	6.0		25	8.85	185	571	52
81/06/16	12 15		23.0	12	1100	8.1		20	8.40	208	717	4
81/06/23	11 00		26.2	13	852	7.7		13	8.30	227	709	21
81/06/30	11 00		23.2	14	1020	6.1		31	8.50	186	657	19
81/07/07	11 30		28.0	15	990	6.1		29	8.90	218	668	21
81/07/14	09 00		20.0	11	992	7.5		5K	8.30	201	688	7
81/07/21	11 30		25.7	12	1170	7.8		21	8.70	223	647	16
81/07/26	20 45		19.0	275	187			240	8.10	42	156	350
	21 00		20.5	288	197			268	7.30	39	176	548
	22 30		21.0	125	242			157	6.90	49	171	568
81/07/27	08 45		17.0	28	566			30	8.15	114	372	64
81/07/28	11 00		23.5	17	780	7.5		20	8.40	158	486	30
81/08/04	11 00		26.0	16	790	11.2		9	8.90	196	583	11
81/08/12	15 00		24.0	10	970			22	8.50	209	640	48
81/08/18	11 15		23.0	12	930	8.6		8	7.80	190	591	6
81/08/25	11 00		23.0	8	990	10.6		10	8.60	216	643	6
81/09/01	11 45		23.0	15	790	8.0		27	8.60	167	740	5
81/09/08	11 30		21.5	14	761	7.7		33	8.90	172	537	7
81/09/15	11 00		21.5	11	948	8.4		25	8.50	206	651	41
81/09/22	11 00		21.3	12	1040	8.4		37	8.80	205	671	5
81/09/29	11 00		17.3	13	850	8.7		16	8.30	189	571	10

Table 349.--Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	NH3+NH4- N DISS MG/L	NH3+NH4- N TOTAL MG/L	NO2-N DISS MG/L	NO2-N TOTAL MG/L	KJELD N DISS MG/L	TOT N MG/L	NO2&NO3 N-TOTAL MG/L	NO2&NO3 N-DISS MG/L	PHOS-TOT MG/L P	PHOS-DIS MG/L P
81/05/26	10 30		0.100	0.100	0.060	0.070	1.500	0.900	2.95	2.88	0.340	0.320
81/05/28	13 00		0.060	0.060		0.140		1.800	1.29		0.500	
	14 15		0.260	0.260		0.070		4.000	1.29		0.500	
	14 30		0.440	0.440		0.050		5.300	0.87		1.400	
	16 00		0.240	0.240		0.010K		4.400	0.85		1.000	
	18 15		0.120	0.120		0.040		4.000	0.63		1.580	
81/05/29	04 30		0.180	0.180		0.030		2.500	0.56		1.010	
	11 15		0.190	0.190		0.060		2.000	0.91		0.620	
81/05/30	11 30		0.050K	0.050K		0.010K		1.200	1.88		0.430	
81/06/02	12 00		0.100	0.100		0.030		1.000	2.40		0.290	
81/06/09	11 15		0.080	0.080		0.040		1.300	2.00		0.580	
81/06/16	12 15		0.050K	0.050K		0.030		0.300K	2.30		0.300	
81/06/23	11 00		0.050K	0.050K		0.060		1.200	2.30		0.520	
81/06/30	11 00	0.050	0.050K	0.050K	0.050		1.000	1.200	2.30	2.2	0.520	0.500
81/07/07	11 30		0.050K	0.050K		0.080		2.000	1.88		0.470	
81/07/14	09 00		0.050K	0.050K		0.040		1.500	2.90		0.500	
81/07/21	11 30		0.050K	0.050K		0.010K		1.600	2.10		0.500	
81/07/26	20 45		0.900	0.900		0.010		5.300	1.00		0.790	
	21 00		0.780	0.780		0.010		5.900	0.95		1.020	
	22 30		0.640	0.640		0.010K		4.600	0.78		0.990	
81/07/27	08 45		0.050K	0.050K		0.040		1.000	1.53		0.410	
81/07/28	11 00		0.050K	0.050K	0.020	0.020	0.500	1.800	3.96	2.02	0.370	0.300
81/08/04	11 00	0.050K	0.050K	0.050K		0.030		0.800	2.24		0.500	
81/08/12	15 00		0.220	0.220		0.070		1.000	2.60		0.420	
81/08/18	11 15		0.080	0.080		0.050		1.000	2.20		0.300	
81/08/25	11 00	0.050K	0.050K	0.050K	0.050	0.060	0.700	0.800	2.60	0.000	0.350	0.100K
81/09/01	11 45		0.160	0.160		0.040		1.000	1.90		0.400	
81/09/08	11 30		0.060	0.060		0.030		1.200	2.06		0.360	
81/09/15	11 00		0.060	0.060		0.060		0.800	2.74		0.500	
81/09/22	11 00		0.130	0.130		0.080		1.100	3.26		0.500	
81/09/29	11 00		0.060	0.060		0.060		4.200	2.40		0.380	



Table 349.--Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	T ORG C MG/L	D ORG C MG/L	TOT HARD CACO3 MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,DISS UG/L	CADMIUM CD,TOT UG/L	COPPER CU,DISS UG/L	COPPER CU,TOT UG/L	IRON FE,TOT UG/L
81/05/26	10 30		8.0	7.0	352	106.00	00	1K	1K	10K	30	110
81/05/26	13 00		8.0		174	49.00	50	1K	2	10K	20	2670
81/05/26	14 15		40.0		160	31.00	39	1K	3	10K	80	14000
	14 30		50.0		118	28.00	37	1K	1	10K	80	16000
	16 00		45.0		110	17.00	17	1K	3	10K	40	8700
	18 15		34.0		360	24.00	23	1K	2	10K	60	32400
81/05/29	04 30		26.0		74	12.00	13	1K	0	10K	80	20400
	11 15		24.0		113	20.00	16	1K	3	10K	60	13400
	11 30		8.0		254	66.00	62	1K	1K	10K	30	1150
81/05/30	11 30		3.0		324	92.00	97	1K	1	10K	50	280
81/06/02	12 00		5.0		258	78.00	84	1K	1K	10K	30	1500
81/06/09	11 15		13.0		336	109.00	124	1K	1K	10K	20	110
81/06/16	12 15		7.0		340	111.00	101	1K	1K	10K	30	270
81/06/23	11 00		14.0	4.0	306	96.00	94	1K	1K	10K	30	610
81/06/30	11 00		11.0		328	91.00	105	1K	2	10K	30	240
81/07/07	11 30		3.0		315	86.00	93	1K	1K	10K	10K	340
81/07/14	09 00		0.00		334	100.00	110	1K	1	10K	50	440
81/07/21	11 30		84.0		66	0.00N	12	1K	0N	10K	0N	0N
81/07/26	20 45		0.0N		72	13.00	12	1K	2	10K	70	7700
	21 00		53.0		78	18.00	18	1K	1K	30	70	6600
	22 30		14.0		171	47.00	44	1K	1K	10K	30	2180
81/07/27	08 45		7.0	4.0	244	68.00	72	1K	1K	10K	20	1010
81/07/28	11 00		35.0		292	83.00	89	1K	1K	10K	60	80
81/08/04	11 00		7.0		312	90.00	97	1K	2	10K	60	1470
81/08/12	15 00		10.0		285	83.00	88	1K	1	10K	30	700
81/08/18	11 15		7.0		322	90.00	100	1K	2	10K	50	110
81/08/25	11 00		133.0	3.0	251	70.00	82	1K	2	10K	50	190
81/09/01	11 45		14.0		255	69.00	74	1K	1K	10K	60	170
81/09/08	11 30		12.0		308	88.00	116	1	1K	10K	30	1250
81/09/15	11 00		13.0		313	94.00	98	1K	2	10K	50	80
81/09/22	11 00		10.0		269	72.00	81	1K	2	10K	50	150

Table 349.--Water-quality data for station 06713500  
Cherry Creek at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	IRON FE,DISS UG/L	LEAD PB,DISS UG/L	LEAD PB,TOT UG/L	MANGNESE MN UG/L	MANGNESE MN,DISS UG/L	ZINC ZN,DISS UG/L	ZINC ZN,TOT UG/L	FEC COLI M-FCAGAR /100ML	PHOS-T ORTHO MG/L P	BOD 20C SDAY CAR MG/L
81/05/26	10 30		10K	10K	10K	20.0	100.0	20	30	88000	0.280	6.0
81/05/28	13 00		100	10K	30	220.0	20.0	30	90	ON	0.250	5.0
	14 15		60	10K	330	480.0	30.0	30	360	ON	0.160	14.0
	14 30		60	10K	440	480.0	30.0	100	470	ON	0.050	21.0
	16 00		80	10K	180	310.0	20.0	30	250	ON	0.130	18.0
	18 15		160	10K	260	890.0	10.0K	10	340	160000	0.120	10.0
81/05/29	04 30		60	10K	310	570.0	10.0	20	380	34000	0.120	8.0
	11 15		80	10K	90	380.0	10.0K	30	230	ON	0.140	10.0
81/05/30	11 30		10	10K	10K	70.0	10.0K	30	90	88000	0.220	2.0
81/06/02	12 00		10K	10K	30	20.0	10.0K	40	200	39000	0.280	2.0
81/06/09	11 15		10K	10K	20	80.0	10.0K	10	50	20000	0.300	3.0
81/06/16	12 15		10	10K	10K	20.0	10.0K	30	70	17000	0.300K	3.0
81/06/23	11 00		10K	10K	30	40.0	10.0K	20	60	8200	0.270	5.0
81/06/30	11 00		20	10K	20	70.0	30.0	20	50	64000	0.310	3.0
81/07/07	11 30		30	10K	10	80.0	20.0	10	50	1400	0.250	6.0
81/07/14	09 00		10K	10K	10	40.0	30.0	30	520	220000	0.400	1.0
81/07/21	11 30		10K	10K	10K	130.0	130.0	30	70	38000	0.380	9.0
81/07/26	20 45		120	10K	ON	0.0N	70.0	90	ON	ON	0.300	82.0
	21 00		120	10K	200	630.0	90.0	90	340	ON	0.300	95.0K
	22 30		70	10K	130	720.0	70.0	70	230	ON	0.300	59.0
81/07/27	08 45		10K	10K	30	200.0	30.0	30	70	ON	0.300	6.0
81/07/28	11 00		10K	10K	10K	70.0	10.0K	30	50	15000	0.200	3.0
81/08/04	11 00		10K	10K	10K	20.0	10.0K	20	110	65000	0.230	4.0
81/08/12	15 00		10K	10K	10K	80.0	30.0	10	80	ON	0.400	3.0
81/08/18	11 15		10K	10K	10K	80.0	20.0	20	40	17000	0.240	3.0
81/08/25	11 00		10K	10	10K	20.0	10.0K	20K	20	9400	0.300	3.0
81/09/01	11 45		10K	10K	10K	50.0	10.0	30K	30	370	0.300	4.0
81/09/08	11 30		10K	10K	10K	50.0	30.0	20	50	21000	0.360K	12.0
81/09/15	11 00		10K	10K	10K	70.0	50.0	30	40	19000	0.370	7.0
81/09/22	11 00		10K	10K	10K	30.0	30.0	20	40	71000	0.480	20.0K
81/09/29	11 00		30	10K	10K	40.0	10.0K	30	40	60000	0.340	12.0

Table 350.--Water-quality data for station 06714000  
South Platte River at Denver

[K indicates less than; N indicates not requested; 0 indicates lost sample]

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTIVY AT 25C MICROMHO	DO PROBE MG/L	COD LOWLEVEL MG/L	COD HI LEVEL MG/L	PH SU	RESIDUE TOT NFLT MG/L	NH3+NH4+ N TOTAL MG/L	NO2-N TOTAL MG/L
80/04/01	11 45		6.0	444	847	12.2		20	8.15	130	1.000	
80/04/08	11 00		11.5	165		11.0		42	8.05	76	2.800	
80/04/15	12 45		14.5	296	635	8.6		33	8.25	67	0.920	
80/04/22	12 00		14.5	480	533	8.0		30	8.20	125	0.590	
80/04/29	12 30		13.0	1205	424	11.4		20	8.10	86	0.040	
80/05/06	12 15		11.5	3606	291	9.0	36.0		8.00	287	0.200	0.030
80/05/13	12 15		12.0	3300	288	10.4	22.0		8.10	250	0.200	0.020
80/05/20	12 30		13.0	2870	323	9.0	27.0		8.35	332	0.100	0.020
80/05/28	12 15		16.0	2800	260	8.4	21.0		8.20	342	0.100	0.020
80/06/03	12 00		15.0	2720	280	8.3	18.0		8.20	86	0.100	0.030
80/06/10	12 45		18.5	2520	280	8.3	26.0		8.30	77	0.100K	0.020
80/06/17	12 30		18.5	2420	270	8.0	25.0		8.40	122	0.200	0.100
80/06/24	13 00		21.0	1800	310	7.1	17.0		8.10	84	0.180	0.040
80/07/01	12 30		21.5	722	404	7.4		51	8.30	121	0.330	0.070
80/07/08	12 45		24.5	588	447	7.2	18.0		8.30	56	0.320	0.080
80/07/11	22 30		21.0	1180	416			59	8.00	713	0.600	0.110
80/07/12	01 45		21.0	1210	411		40.0		8.10	317	0.530	0.080
80/07/15	12 00		23.0	756	446		33.0		8.30	152	0.460	0.070
80/07/22	12 00		24.0	572	442		21.0		8.30	98	0.270	0.060
80/07/29	12 00		22.0	580	520	7.1	22.0		8.00	72	0.260	0.060
80/08/05	12 00		20.0	550	610	6.0	13.0		7.90	180	0.260	0.100
80/08/12	12 00		25.0	224	507	7.2	17.0		8.50	116	0.230	0.070
80/08/14	14 30		20.5	334	634	5.5	19.0		8.30	155	0.320	0.070
80/08/15	16 15		20.8	438	610	7.4	21.0		8.20	60	0.520	0.140
80/08/16	16 50		21.0	1570	580	6.3		220	7.80	74	0.410	0.110
80/08/17	17 45		21.0	1930	360	6.2		327	7.90	875	0.740	0.160
80/08/18	18 30		19.0	2660	370	6.3		224	7.30	3730	0.920	0.140
80/08/19	19 30		21.0	1720	360	5.7		256	7.40	2940	0.980	0.130
80/08/20	23 45		19.5	880	390	6.3		197	7.10	2330	1.300	0.140
80/08/21	12 15		26.0	468	330	6.4		157	7.30	1650	0.750	0.140
80/08/22	12 15		20.0	493	580	6.4		67	7.50	1770	0.820	0.140
80/08/23	12 15		22.0	198	540	7.6	19.0		7.50	495	0.450	0.120
80/08/24	12 15		17.0	242	700	7.3	38.0		8.40	120	0.300	0.080
80/08/25	11 00		16.0	323	617	7.1	35.0		8.60	121	0.930	0.180
80/08/26	01 00				679	8.0		78	7.50	202	0.900	0.180
80/08/27	01 00								8.20	342	3.000	0.310

Table 350.--Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	TOT N	KJEL MG/L	NO2&NO3 N-TOTAL MG/L	PHOS--TOT MG/L P	T ORG C C MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,DISS UG/L	CADMIUM CD,TOT UG/L	COPPER CU,DISS UG/L	COPPER CU,TOT UG/L
80/04/01	11 45		1,800		2.90	0.560	18.0		140		1		14
80/04/08	11 00		4,400		1.90	1.700	12.0				1		12
80/04/15	12 45		2,600		1.30	0.810	11.0				2		12
80/04/22	12 00		2,100		1.10	0.610	10.0		24		1		12
80/04/29	12 30		1,700		0.96	0.380	9.0				1		11
80/05/06	12 15		1,000		0.68	0.390	6.0	20.00			10	10K	20
80/05/13	12 15		1,000		0.45	0.400	26.0	18.00			10	10K	100
80/05/20	12 30		1,700		0.50	0.300	18.0	20.00			13	10K	100
80/05/28	12 15		0,600		0.35	0.250	6.0	15.00			3	10K	10
80/06/03	12 00		0,300		0.27	0.200	6.0	15.00			1	10K	20
80/06/10	12 45		1,000		0.25	0.150	13.0	16.00			4	10K	20
80/06/17	12 30		1,000		0.26	0.180	14.0	8.00			4	10K	20
80/06/24	13 00		1,600		0.32	0.220	8.0	20.00			3	10K	20
80/07/01	12 30		0,600		0.62	0.250	6.0	30.00			12	20	50
80/07/08	12 45		0,800		0.85	0.390	6.0	38.00			3	10K	30
80/07/11	22 30		2,000		0.96	0.800	15.0	31.00			7	10K	60
80/07/12	01 45		1,400		0.87	0.570	18.0	36.00			4	10K	20
80/07/15	12 00		1,300		0.82	0.530	12.0	36.00			2	10K	20
80/07/22	12 00		1,000		0.76	0.420	4.0	40.00			3	10K	20
80/07/29	12 00		0,800		0.69	0.650	10.0	40.00			12	10K	40
80/08/05	12 00		1,500		0.85	0.450	9.0	44.00			4	10K	20
80/08/12	12 00		1,100		0.94	0.400	6.0	39.00			1	10K	30
80/08/14	14 30		1,400		0.76	0.330	6.0	40.00			3	10K	10
80/08/15	16 15		1,200		1.34	0.680	8.0	49.00			2	10K	10
80/08/16	16 50		3,500		1.03	0.520	12.0	46.00			6	10K	10
80/08/17	17 45		9,400		1.26	1.360	30.0	46.00			9	10K	50
80/08/18	18 30		7,200		0.87	3.520	84.0	28.00			15	10K	210
80/08/19	19 30		8,800		0.68	3.320	84.0	33.00			12	10K	150
80/08/20	23 45		6,600		0.83	2.530	74.0	36.00			6	10K	100
80/08/21	23 45		6,700		0.89	1.910	55.0	25.00			3	10K	80
80/08/22	12 15		2,500		1.18	2.420	52.0	31.00			3	10K	120
80/08/23	12 15		1,300		1.25	0.800	20.0	44.00			2	10K	60
80/08/24	12 15		2,300		0.82	0.480	6.0	42.00			3	10K	20
80/08/25	12 15		2,500		1.53	0.780	22.0	53.00			3	10K	20
80/08/26	11 00		2,500		1.18	0.850	13.0	45.00			5	10K	30
80/08/27	01 00		6,500		1.67	1.740	26.0	59.00			1	10	20

Table 350.--Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	IRON FE,TOT UG/L	IRON FE,DISS UG/L	LEAD PB,DISS UG/L	LEAD PH,TOT UG/L	MANGNESE MN UG/L	MANGNESE MN,DISS UG/L	ZINC ZN,DISS UG/L	ZINC ZN,TOT UG/L	FEC COLI M-FCAGAR /100ML	FEC COLI MPNECMED /100ML
80/04/01	11 45		3100			91	230.0			110		
80/04/08	11 00		2100			38	260.0			100		
80/04/15	12 45		2100			20	190.0			50		
80/04/22	12 00		3100			38	210.0			80		
80/04/29	12 30		3000			35	60.0			60		
80/05/06	12 15		12000	510	10K	40	230.0	50.0	30K	140	1600	
80/05/13	12 15		10000	120	10K	90	230.0	30.0	10K	920	1400	
80/05/20	12 30		7500	100	10K	60	140.0	20.0	30	240	1300	
80/05/28	12 15		3400	140	10K	70	90.0	10.0	10K	60	540	
80/06/03	12 00		2800	250	10K	10	80.0	30.0	20	60	480	
80/06/10	12 45		2300	80	10K	20	80.0	10.0K	30	40	2400	
80/06/17	12 30		1400	100	10K	20	40.0	10.0K	10K	40	2300	
80/06/24	13 00		2200		10	30	100.0		30	40	600	
80/07/01	12 30		2900	70	10K	60	160.0	70.0	40	130	70000	
80/07/08	12 45		2400	10K	10K	80	150.0	90.0	20	100	940	
80/07/11	22 30		7400	30	10K	110	250.0	60.0	40	220		350000
80/07/12	24 00		3200	30	10K	100	180.0	40.0	30	80	36000	
80/07/12	01 45		2700	20	10K	60	160.0	40.0	30	60	2100	
80/07/12	06 00		1700	10K	10K	30	130.0	40.0	30	60	7000	
80/07/15	12 00		2100	10K	10K	120	140.0	60.0	30	70	1080	
80/07/22	12 00		3000	10K	10K	40	200.0	70.0	50	80	600	
80/07/29	12 00		2300	10K	30K	30	180.0	60.0	20	60	200	
80/08/05	12 00		1600	10K	10K	20	180.0	50.0	10K	60	420	
80/08/12	12 00		170	20	10K	30	220.0	150.0	60	90	920	
80/08/14	14 30		2000	10K	10K	30	180.0	80.0	80K	80	1600	
80/08/14	16 15		13000	30	10K	150	480.0	100.0	50	260	4000	
80/08/15	16 50		45000	120	10K	790	1600.0	130.0	40	1050		330000
80/08/17	17 45		34000	50	10K	640	1600.0	180.0	30	780	160000	
80/08/18	18 30		29000	40	10K	450	1500.0	150.0	20	570	60000	
80/08/19	19 30		32000	100	10K	310	1030.0	80.0	30	420	50000	
80/08/23	23 45		51000	100	10K	230	1500.0	50.0	30	480	19000	
80/08/15	12 15		19000	60	10K	90	540.0	90.0	30	290	1000	
80/08/19	12 15		3100	20	10K	20	210.0	80.0	30	90	10K	
80/08/26	12 15		3200	30	10K	60	320.0	230.0	70	140	7	
80/09/02	11 00		3900	30	10K	100	240.0	110.0	50	200	2600	
80/09/09	01 00		4500	60	10	90	360.0	190.0	60	200	11000	

Table 350.--Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	PHOS- T ORTHO MG/L P	BOD 20C SDAY CAR MG/L
80/04/01	11 45		0.380	
80/04/08	11 00		1.240	
80/04/15	12 45		0.540	
80/04/22	12 00		0.310	
80/04/29	12 30		0.240	
80/05/06	12 15		0.160	2.0
80/05/13	12 15		0.040	1.0
80/05/20	12 30		0.100	2.0
80/05/28	12 15		0.080	2.0
80/06/03	12 00		0.120	2.0
80/06/10	12 45		0.100	2.0
80/06/17	12 30		0.100	2.0
80/06/24	13 00		0.100	2.0
80/07/01	12 30		0.200	2.0
80/07/08	12 45		0.240	2.0
80/07/11	22 30		0.230	7.0
80/07/12	24 00		0.300	5.0
80/07/12	01 45		0.300	3.0
80/07/15	06 00		0.250	2.0
80/07/22	12 00		0.190	2.0
80/07/29	12 00		0.250	2.0
80/08/05	12 00		0.230	3.0
80/08/12	12 00		0.190	3.0
80/08/12	12 00		0.510	2.0
80/08/14	14 30		0.410	2.0
80/08/14	16 15		0.520	10.0
80/08/15	16 50		0.190	28.0
80/08/17	17 45		0.220	31.0
80/08/18	18 30		0.210	28.0
80/08/19	19 30		0.130	16.0
80/08/15	23 45		0.120	13.0
80/08/19	12 15		0.300	7.0
80/08/19	12 15		0.290	5.0
80/08/26	12 15		0.520	6.0
80/09/02	11 00		0.490	4.0
80/09/09	01 00		1.000	15.0

Table 350.--Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTVY AT 25C MICROMHO	DO PROBE MG/L	COD LUMLEVEL MG/L	COD HT LEVEL MG/L	PH SU	RESIDUE TOT NFLT MG/L	NH3+NH4- N TOTAL MG/L	NO2=N TOTAL MG/L
80/09/09	05 00		15.0	782	540	8.1		118	7.80	1260	2.400	0.190
	10 30		14.0	515	397	8.9		75	7.00	261	1.360	0.900
80/09/10	11 00		15.0	354	623	8.0	35.0		8.50	112	0.920	0.140
80/09/16	11 00		16.0	107	860	8.4	23.0		8.15	15	2.700	0.340
80/09/23	12 00		17.0	107	951	9.3	27.0		7.45	21	3.900	0.350
80/09/30	11 30		16.0	58	1060	10.0	22.0		7.90	12	3.800	0.450
80/10/07	12 15		14.0	76	1035	8.8	24.0		7.90	19	3.600	0.410
80/10/14	11 00		15.0	59	995	8.5	25.0		8.00	16	4.200	0.400
80/10/21	12 45		16.0	82	1080		26.0		7.30	11	5.600	0.370
80/10/28	11 45		10.0	279	675	9.5	31.0		8.20	36	1.900	0.100
80/11/04	12 15		13.7	143	760	9.0	23.0		8.10	17	3.200	0.150
80/11/11	12 30		15.0	90	960	9.3	19.0		8.00	12	4.300	0.170
80/11/18	12 30		10.8	81	1090	9.6	24.0		8.35	12	5.100	
80/11/25	12 30		8.5	170	1490	9.2		62	7.70	52	3.600	0.160
80/12/02	13 15		9.5	122	908	10.6	20.0		8.30	12	5.000	0.240
80/12/09	12 45		10.6	83	1100	11.2	30.0		7.90	22	5.600	0.300
80/12/16	12 30		13.5	56	997	10.2	23.0		8.35	16	4.200K	0.290
80/12/30	12 45		10.2	115	900	10.0	34.0		7.90	12	5.900	0.170

Table 350.--Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	TOT KJEL N MG/L	NO2&NO3 N-TOTAL MG/L	PHOS-TOT MG/L P	T ORG C MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,DISS UG/L	CADMIUM CD,TOT UG/L	COPPER CU,DISS UG/L	COPPER CU,TOT UG/L
80/09/09	05 00		6.000	1.26	2.230	34.0	44.00	36	3	7	10K	70
	10 30		3.800	1.00	1.400	32.0	33.00	30	1K	3	10K	30
80/09/10	11 00		2.300	1.29	0.800	12.0	51.00	44	1K	1	10K	20
80/09/16	11 00			2.50	1.240	4.0	81.00	66	1K	4	10K	20
80/09/23	12 00		4.800	2.15	1.720	4.0	81.00	66	1K	1	10	30
80/09/30	11 30		5.300	2.68	1.970	32.0	100.00	87	1K	1	10K	10
80/10/07	12 15		4.700	2.46	1.850	6.0	94.00	78	1K	1K	10K	20
80/10/14	11 00		5.500	2.36	1.900	6.0	94.00	76	1K	1	10K	20
80/10/21	12 45		6.800	2.80	2.250	6.0	108.00	80	1K	3	20	50
80/10/28	11 45		3.600	1.45	0.930	16.0	62.00	52	1K	6	10K	10
80/11/04	12 15		3.900	2.40	1.170	5.0	69.00	58	1K	1	20K	20
80/11/11	12 30		6.700	2.00	1.760	5.0	87.00	70	1K	1	10K	20
80/11/18	12 30		6.900	2.40	1.900	8.0	105.00	80	1K	3	10K	10
80/11/25	12 30		5.400	1.98	1.550	48.0	222.00	259	1K	3	10K	10
80/12/02	13 15		6.300	2.24	1.720	8.0	86.00	68	1K	2	10K	10
80/12/09	12 45		7.500	2.56	2.020	46.0	117.00	122	1K	3	10K	10
80/12/16	12 30		4.200	2.72	1.830	8.0	88.00	70	1K	3	20K	20
80/12/30	12 45		7.300	2.20	2.300	42.0	82.00	66	6K	6	20K	20



Table 350.--Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	IRON FE, TOT UG/L	IRON FE, DISS UG/L	LEAD PB, DISS UG/L	LEAD PH, TOT UG/L	MANGNESE MN UG/L	MANGNESE MN, DISS UG/L	ZINC ZN, DISS UG/L	ZINC ZN, TOT UG/L	FEC COLI M-FCAGAR /100ML	FEC COLI MPN/ECMED /100ML
80/09/09	05 00		18000	70	10K	170	710.0	180.0	70	420	100	
	10 30		7500	110	10K	90	320.0	80.0	30	150	1200	
80/09/10	11 00		2500	10K	10K	50	200.0	80.0	40	100	160	
80/09/16	11 00		560	10K	10K	30	230.0	200.0	70	130	48000	
80/09/23	12 00		460	20	10K	10	260.0	250.0	90	100	15000	
80/09/30	11 30		530	10K	10K	10	320.0	270.0	60	300	5900	
80/10/07	12 15		740	10K	10K	10	290.0	280.0	90	140	2700	
80/10/14	11 00		600	30	10K	30	270.0	270.0K	30	80	4600	
80/10/21	12 45		440	10K	10K	10	270.0	270.0K	80	140	530	
80/10/28	11 45		1000	10K	60K	60	220.0	150.0	70	120	5200	
80/11/04	12 15		500	10K	10K	10	190.0	150.0	70	150	290	
80/11/11	12 30		410	10K	10K	10	250.0	240.0	80	170	180	
80/11/18	12 30		480	10K	10K	20	320.0	320.0K	90	190	1600	
80/11/25	12 30		1700	20	10K	80	240.0	210.0	120	190	3400	
80/12/02	13 15		390	10K	40K	40	230.0	230.0K	100	150	1500	
80/12/09	12 45		670	10K	10K	90	300.0	240.0	90	190	2200	
80/12/16	12 30		550	10K	10K	30	290.0	270.0	90	160	260	
80/12/30	12 45		470	10K	10K	30	270.0	230.0	100	150	350	

Table 350.--Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	PHOS-T ORTHO MG/L P	BUD 20C SDAY CAR MG/L
80/09/09	05 00		0.750	21.0
	10 30		0.900	10.0
80/09/10	11 00		0.450	6.0
80/09/16	11 00		1.010	3.0
80/09/23	12 00		1.650	4.0
80/09/30	11 30		1.680	5.0
80/10/07	12 15		1.500	5.0
80/10/14	11 00		1.520	5.0
80/10/21	12 45		2.200	7.0
80/10/28	11 45		0.760	7.0
80/11/04	12 15		1.000	4.0
80/11/11	12 30		1.630	6.0
80/11/18	12 30		1.480	5.0
80/11/25	12 30		1.280	13.0
80/12/02	13 15		1.400	4.0
80/12/09	12 45		1.580	8.0
80/12/16	12 30		1.600	6.0
80/12/30	12 45		1.890	7.0

Table 350.---Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTIVITY AT 25C MICROMHU	D.O. PROBE MG/L	C/D LOWLEVEL MG/L	CUP HI LEVEL MG/L	PH SU	T ALK CAC03 MG/L	RESIDUE DISS-J05 C MG/L	RESIDUE TOT NF1 T MG/L
81/01/06	12 00			89	1000		30.0			214		13
81/01/13	12 45			59	1060		40.0			228		17
81/01/20	11 00			90	1020		30.0			227		18
81/01/27	12 45			124	849		24.0			175		15
81/02/03	12 30			84	980		45.0			179		22
81/02/10	12 45			71	850		21.0			184		18
81/02/17	12 00			143	793		19.0			172		20
81/02/24	10 45			107	904		29.0			188		80
81/03/03	11 45			81	990		41.0			202		44
	15 45			146	961			99		181		200
	18 30			146	898			114		177		145
81/03/04	12 00			148	1110			121		143	236	188
				522	640			194		86	380	603
81/03/05	12 00			160	900			52		127		176
	17 30			385	620			174		97	409	481
				128	730			60		143	476	224
81/03/06	10 45			116	892		25.0			186		33
81/03/10	12 00			78	964		33.0			198		49
81/03/17	12 00			98	1010		30.0			205		39
81/03/24	11 30			73	984		25.0			200		42
81/03/31	11 00											
81/04/03	08 30			123	1030			124		181	626	356
	11 30			434	610			131		113	242	420
	14 30			396	620			93		110	265	238
	23 00			257	701			52		130	429	124
81/04/04	13 00			136	815			39		157	511	106
81/04/07	12 30			118	1060			30		210	657	46
				270	670			37		138	360	79
81/04/14	13 00			306	590			26		130	320	137
81/04/21	11 00			140	780			27		171	509	24
81/04/28	12 15							48		144	443	85
81/05/03	14 15			213	701			205		124	376	899
	14 30			535	598			291		103	278	1260
	16 00			829	428			154		102	305	547
	19 30			486	473			57		129	374	206
81/05/04	11 00			202	598			23		192	571	36
81/05/05	12 30			145	889			20		155	419	52
81/05/12	10 15			219	700			107		98	300	532
81/05/13	00 45			695	490			28		121	363	358
	12 15			298	620			51		116	335	120
81/05/16	15 30			378	547			52		120	342	135
	18 00			349	580			75		83	302	371
81/05/17	13 00			500	391			106		68	267	1070
	19 15			1230	320			32		118	309	314
81/05/18	11 30			340	500							

Table 350. --Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	NH <sub>3</sub> +NH <sub>4</sub> - N TOTAL MG/L	NO <sub>2</sub> -N TOTAL MG/L	TOT KJEL N MG/L	NO <sub>2</sub> &NO <sub>3</sub> N-TOTAL MG/L	PHOS-TOT MG/L P	T URG C C MG/L	TOT HARD CACUS MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,OISS UG/L
81/01/06	12 00		5.400	0.200	6.500	2.30	1.840	8.0	288	92.00	78	1K
81/01/13	12 45		6.200	0.310	7.900	2.90	1.470	12.0	312	99.00	84	1K
81/01/20	11 00		7.900	0.200	9.000	2.80	2.720	10.0	306	96.00	78	1K
81/01/27	12 45		4.200	0.110	6.700	2.00	1.590	10.0	241	70.00	62	2K
81/02/03	12 30		4.200	0.120	5.400	2.10	1.600	20.0	280	54.00	100	1K
81/02/10	12 45		3.800	0.140	4.600	1.84	1.580	10.0	266	67.00	66	1K
81/02/17	12 00		4.000	0.110	4.800	2.00	1.460	6.0	245	62.00	59	3K
81/02/24	10 45		5.300	0.140	6.200	2.00	1.580	8.0	260	80.00	71	1K
81/03/03	11 45		7.000	0.260	8.600	2.50	2.050	12.0	283	89.00	81	1K
	15 45		6.500	0.270	8.900	2.40	2.390	28.0	198	91.00	86	1K
	18 30		4.800	0.210	7.100	2.30	2.010	30.0	245	90.00	84	1K
81/03/04	12 00		3.800	0.130	6.500	1.80	1.350	33.0	212	130.00	178	2
	18 00		1.500	0.070	5.500	4.55	1.560	48.0	105	70.00	97	3K
81/03/05	12 00		2.700	0.090	4.500	2.00	0.850	15.0	175	97.00	128	2
	17 30		1.200	0.080	4.400	2.80	0.830	35.0	144	62.00	78	5K
81/03/06	10 45		2.900	0.100	4.600	1.70	0.660	14.0	202	67.00	66	1K
81/03/10	12 00		4.600	0.160	5.500	2.20	1.270		271	79.00	72	0
81/03/17	12 00		5.300	0.310	6.800	2.10	1.740		280	83.00	74	0
81/03/24	11 30		5.200	0.220	6.000	2.40	1.700		304	93.00	75	0
81/03/31	11 00		4.300	0.100	5.000	1.80	1.190	10.0	305	97.00	80	1K
81/04/03	08 30		4.000	0.150	6.400	2.00	1.800	40.0	289	102.00	96	1K
	11 30		3.600	0.080	6.300	1.19	1.750	34.0	166	59.00	53	2
	14 30		2.100	0.050	3.800	1.21	1.200	22.0	159	56.00	52	1K
	23 00		2.300	0.060	3.500	1.10	0.850	24.0	195	65.00	60	1K
81/04/04	13 00		2.700	0.060	3.600	1.47	1.000	40.0	243	74.00	62	1K
81/04/07	12 30		4.700	0.120	5.600	1.80	1.850	14.0	296	95.00	76	1K
81/04/14	13 00		1.200	0.070	2.800	1.32	0.520	9.0	222	51.00	46	1K
81/04/21	11 00		1.200	0.080	2.300	1.26	0.640	10.0	184	51.00	41	1K
81/04/28	12 15		4.200	0.160	5.900	1.46	1.600	10.0	228	71.00	54	1K
81/05/03	14 15		2.400	0.180	4.300	1.35	1.280	28.0	255	66.00	55	1K
	14 30		1.260	0.140	8.500	1.33	2.240	92.0	220	57.00	53	3
	16 00		1.510	0.130	9.100	1.67	2.900	89.0	180	40.00	32	1
	19 30		2.200	0.140	6.900	0.86	1.610	76.0	170	41.00	30	1K
81/05/04	11 00		2.000	0.090	4.000	1.25	1.100	16.0	186	53.00	41	1
81/05/05	12 30		3.800	0.120	5.000	1.66	1.620	8.0	272	79.00	62	2
81/05/12	10 15		2.600	0.110	4.500	1.36	1.260	6.0	223	55.00	50	3
81/05/13	00 45		1.600	0.090	3.600	0.98	1.230	36.0	134	46.00	35	1K
	12 15		1.000	0.060	3.500	1.09	0.560	9.0	166	47.00	43	1K
81/05/16	15 30		1.610	0.110	4.800	1.23	0.910	14.0	167	44.00	40	1
	18 00		1.420	0.110	3.300	1.32	0.860	24.0	172	45.00	37	1
81/05/17	13 00		0.540	0.050	3.300	0.88	0.780	22.0	140	31.00	28	1K
	19 15		0.960	0.070	3.500	0.56	1.380	27.0	102	24.00	17	1K
81/05/18	11 30		1.000	0.070	2.400	0.99	0.680	36.0	155	46.00	30	1K

Table 350.--Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	CADMIUM Cd, TOT UG/L	CUPPER Cu, DISS UG/L	CUPPER Cu, TOT UG/L	IRON Fe, TOT UG/L	IRON Fe, DISS UG/L	LEAD Pb, DISS UG/L	LEAD Pb, TOT UG/L	MANGNESE Mn UG/L	MANGNESE Mn, DISS UG/L	ZINC Zn, DISS UG/L
81/01/06	12 00		2	30K	30	320	60	10K	10	360.0	290.0	110
81/01/13	12 45		3	20K	20	400	10K	10K	10	410.0	30.0	80
81/01/20	11 00		2	30K	30	500	220	10K	10	340.0	290.0	110
81/01/27	12 45		2	20K	20	430	10K	10K	10	270.0	190.0	70
81/02/03	12 30		3	30K	30	360	10K	10K	30	220.0	90.0	100
81/02/10	12 45		5	10K	70	310	10K	10K	20	220.0	200.0	70
81/02/17	12 00		3	10K	50	490	10K	30	50	260.0	200.0	60
81/02/24	10 45	15	3	30	40	3000	20	20	60	210.0	210.0K	70
81/03/03	11 45		3	10K	30	840	10	10K	60	330.0	10.0K	10K
	15 45		3	10K	50	6500	40	10K	120	470.0	240.0	70
	18 30		3	10K	40	5200	50	10K	140	490.0	230.0	70
81/03/04	12 00		3	30	60	5800	30	10K	200	390.0	180.0	70
	18 00		5	20	80	19000	70	10K	310	890.0	140.0	30
81/03/05	12 00		6	10K	30	4700	10K	10K	100	290.0	130.0	60
	17 30		5	10K	130	15000	60	10K	220	540.0	100.0	40
81/03/06	10 45		2	20	50	8900	30	10K	80	340.0	160.0	50
81/03/10	12 00		4	20	30	480	120	0	30	270.0	180.0	70
81/03/17	12 00		4	20	50	2200	10	0	60	320.0	250.0	50
81/03/24	11 30		6	20	30	720	0	0	60	290.0	150.0	60
81/03/31	11 00		1	10K	30	1500	20	10K	10	240.0	240.0K	60K
81/04/03	08 30		1K	10K	30	4100	280	10K	40	210.0	210.0	30
	11 30		2	10K	70	10300	60	10K	130	460.0	150.0	50
	14 30		2	10K	30	8500	120	10K	80	330.0	130.0	20
	23 00		1K	10K	20	4940	30	10K	30	230.0	110.0	10K
81/04/04	13 00		1K	10K	20	3700	10K	10K	10K	190.0	120.0	10K
81/04/07	12 30		1K	10K	10	1120	10K	10K	10K	210.0K	210.0	30
81/04/14	13 00		1	10K	10	2310	10K	10K	10K	200.0	110.0	30
81/04/21	11 00		2	10K	30	3840	10K	10K	60	220.0	80.0	30
81/04/28	12 15		1K	10K	30	960	10K	20	20K	230.0	160.0	60
81/05/03	14 15		1K	10K	80	2360	30	10K	30	310.0	180.0	50
	14 30		3K	10K	140	00	40	10K	200	540.0	150.0	30
	16 00		1K	10K	90	15200	70	10K	90	390.0	220.0	50
81/05/04	11 00		2	10K	120	18300	40	10K	220	870.0	180.0	20
81/05/05	12 30		7	10K	230	46200	20	10K	1090	1280.0	100.0	30
81/05/12	10 15		2K	10K	80	1040	10K	10K	20	250.0	200.0	40
81/05/13	00 45		3K	10K	80	1270	20	10	10K	180.0	120.0	50
	12 15		2	10K	50	11500	20	20	120	510.0	90.0	30
81/05/16	15 30		1K	10K	40	3320	70	20	20K	200.0	70.0	30
	18 00		3	10K	60	3840	20	20	80	260.0	100.0	60
81/05/17	13 00		3	10K	50	4190	10K	10K	80	410.0	80.0	30
	19 15		4	10K	90	13000	30	10K	150	480.0	30.0	30
81/05/18	11 30		6	10K	50	19400	40	30	210	700.0	60.0	50
						11300	30	10K	80	390.0	40.0	30

Table 350.--Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	ZINC Zn, TOT UG/L	FEC COLI M-FCAGAR /100ML	FEC COLI MPNECME /100ML	PHOS-T ORTH MG/L P	MOD 20C SDAY CAR MG/L
81/01/06	12 00		190	390		1.510	8.0
81/01/13	12 45		170	1000		1.080	8.0
81/01/20	11 00		150	1280		2.720K	6.0
81/01/27	12 45		120	5800		1.200	6.0
81/02/03	12 30		110	1400		1.300	8.0
81/02/10	12 45		150	870		1.280	7.0
81/02/17	12 00		120	1300		1.140	7.0
81/02/24	10 45		150	7200		1.290	5.0
81/03/03	11 45		130	4600		0.020	6.0
	15 45		240	6200		1.700	20.0
	18 30		180	6800		1.400	20.0
81/03/04	12 00		220		33000	0.650	13.0
	18 00		430	8400		0.360	23.0
81/03/05	12 00		150			0.600	9.0
	17 30		340			0.300	13.0
81/03/06	10 45		150	5400		0.500	7.0
81/03/10	12 00		120	100		1.210	6.0
81/03/17	12 00		200	3100		1.190	6.0
81/03/24	11 30		150	19000		1.300	4.0
81/03/31	11 00		60	1400		0.820	3.0
81/04/03	08 30		80	100000		0.820	28.0
	11 30		270	4000		0.580	17.0
	14 30		190	5800		0.520	14.0
	23 00		120	7000		0.370	8.0
81/04/04	13 00		110	1100		0.700	5.0
81/04/07	12 30		150	54		1.420	5.0
81/04/14	13 00		130	840		0.220	6.0
81/04/21	11 00		80	1100		0.400	4.0
81/04/28	12 15		110	5700		1.290	6.0
81/05/03	14 15		150	ON		0.700	13.0
	14 30		330	ON		0.380	26.0
	16 00		170	ON		0.250	25.0
	19 30		330	ON		0.270	16.0
81/05/04	11 00		1100	ON		0.600	2.0
81/05/05	12 30		120	5000		1.300	4.0
81/05/12	10 15		120	1600		1.000	4.0
81/05/13	00 45		270	9200		0.310	11.0
	12 15		90	5000		0.340	5.0
81/05/16	15 30		220	ON		0.500	7.0
	18 00		150	ON		0.420	8.0
81/05/17	13 00		170	ON		0.330	9.0
	19 15		360	ON		0.190	11.0
81/05/18	11 30		100	ON		0.350	3.0

Table 350.--Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTIVITY AT 25C MICRONHD	DO PROBE MG/L	COO LOWLEVEL MG/L	COU HI LEVEL MG/L	PH	T ALK CACO3 MG/L	RESIDUE DISS-105 C MG/L	RESIDUE TOT MP/L
81/05/26	11 30			134	834			25		183	528	20
81/05/28	12 30			253	610			44		141	368	167
	14 45			550	510			167		136	332	570
	15 15			630	470			129		112	301	597
	15 45			1100	460			111		114	296	555
	16 30			1800	430			129		123	301	1640
	17 00			1470	410			303		121	294	2450
81/05/29	01 00			430	360			45		93	225	384
	05 00			1720	350			120		82	225	1140
	12 00			589	350			75		80	222	447
81/05/30	12 45			442	552			16		211	222	161
81/06/02	13 00		21.0	241	622	7.4		111	8.30	155	348	45
81/06/03	15 00			426	432			127		112	304	744
	15 30			1110	307			178		78	228	766
	17 30			1140	306			308		178	249	3960
81/06/04	08 30			309	544			58		142	394	341
81/06/09	12 00		23.5	111	756	6.2		31		183	538	32
81/06/16	13 00		23.0	93	946	7.5		26		197	604	30
81/06/23	12 00		26.2	63	1020	7.7		33	8.00	209	636	24
81/06/30	12 00		23.2	136	649	5.9		16	8.30	131	405	197
81/07/07	12 15		26.0	164	940	8.8		29	7.60	213	576	53
81/07/14	10 00		21.0	123	805	7.2		45	7.70	170	520	59
81/07/21	12 15		25.0	193	690	6.8		18	8.20	145	386	57
81/07/26	21 30		18.0	1160	355			258	8.05	72	267	800
81/07/27	02 00		18.0	768	374			111	8.35	81	239	204
	09 30		18.0	356	500			55	7.80	102	312	232
81/07/28	12 00		22.7	290	580	7.1		20	8.30	125	358	118
81/08/04	12 00		25.0	168	580	7.8		16	8.30	150	440	36
81/08/12	15 30		23.0	155	860			26	7.70	197	558	42
81/08/18	12 00		23.2	228	660	7.4		18	8.20	141	404	38
81/08/25	12 00		22.5	270	570	7.6		22	7.80	124	340	56
81/09/01	12 45		22.0	120	850	6.9		27	7.90	188	778	12
81/09/08	12 30		22.0	134	807	6.9		20	8.00	179	504	22
81/09/15	12 00		20.5	253	543	6.3		26	8.30	131	358	50
81/09/22	12 00		21.2	110	869	7.4		21	8.30	185	540	16
81/09/29	12 00		19.4	85	840	7.4		12	8.00	174	548	16

Table 350.--Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	NH3+NH4- N DISS MG/L	NH3+NH4- N TOTAL MG/L	NO2-N DISS MG/L	NO2-N TOTAL MG/L	KJELDL N DISS MG/L	TOT N MG/L	KJEL N MG/L	NO2&NO3 N-TOTAL MG/L	NO2&NO3 N-DISS MG/L	PHOS-TOT MG/L P	PHOS-DIS MG/L P
81/05/26	11 30		4.400	4.400	0.150	0.160	4.800	5.400		1.60	1.5	1.400	1.180
81/05/28	12 30			1.440		0.130		3.500		1.20		1.200	
	14 45			1.050		0.110		4.000		1.07		1.300	
	15 15			1.060		0.120		3.200		0.97		1.450	
	15 45			1.070		0.120		4.400		0.96		1.450	
	16 30			1.330		0.110		6.800		0.92		3.300	
	17 00			1.720		0.090		12.200		0.66		4.460	
81/05/29	01 00			1.160		0.090		3.200		0.95		0.910	
	05 00			1.170		0.050		4.600		0.72		2.090	
	12 00			0.660		0.060		3.500		0.79		1.090	
81/05/30	12 45			0.530		0.050		1.800		0.95		0.510	
81/06/02	13 00			1.420		0.100		2.800		1.35		1.170	
81/06/03	15 00			0.730		0.100		3.500		1.04		1.400	
	15 30			0.630		0.080		5.400		1.03		1.380	
	17 30			0.740		0.090		11.400		0.89		5.560	
81/06/04	08 30			1.400		0.080		3.200		1.66		1.260	
81/06/09	12 00			3.400		0.220		4.500		1.74		1.500	
81/06/16	13 00			4.800		0.390		5.500		1.94		1.100	
81/06/23	12 00		1.600	4.400		0.520	2.700	5.700		1.95	1.41	2.080	0.720
81/06/30	12 00			1.700	0.240	0.280		3.300		1.50		0.910	
81/07/07	12 15			6.500		0.560		8.800		1.93		2.880	
81/07/14	10 00			3.000		0.220		5.700		1.33		1.270	
81/07/21	12 15			1.800		0.240		4.200		1.21		1.080	
81/07/26	21 30			0.940		0.010		6.000		0.98		1.600	
81/07/27	02 00			1.200		0.100		5.000		0.76		1.330	
	09 30			1.000		0.120		3.400		1.02		0.790	
81/07/28	12 00		0.1	1.000	1.000		1.000	3.000		1.01	0.98	0.890	0.640
81/08/04	12 00			2.400		0.280		4.000		1.37		1.520	
81/08/12	15 30			4.100		0.330		5.400		1.73		1.700	
81/08/18	12 00			1.800		0.200		3.000		1.30		0.660	
81/08/25	12 00		1.100	1.200			1.500	2.500		1.07	1.050	0.800	0.400
81/09/01	12 45			4.800		0.340		6.000		1.78		2.030	
81/09/08	12 30			4.200		0.260		5.600				1.350	
81/09/15	12 30			1.240		0.170		2.500		1.12		0.750	
81/09/22	12 00			3.900		0.280		5.200		1.90		1.650	
81/09/29	12 00			4.400		0.360		5.000		2.08		1.280	



Table 350.--Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	T ORG C	D ORG C	TOT HARD CACO <sub>3</sub> MG/L	SODIUM NA, TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD, DISS UG/L	CADMIUM CD, TOT UG/L	COPPER CU, DISS UG/L	COPPER CU, TOT UG/L	IRON FE, TOT UG/L
81/05/26	11 30		9.0	4.0	247	72.00	00	1K	1K	10K	140	3330
81/05/28	12 30		12.0		186	51.00	40	1K	2	10K	30	5710
	14 45		24.0		173	42.00	34	1K	3	10K	90	10800
	15 15		21.0		162	39.00	43	1K	2	10K	60	14900
	15 45		30.0		167	39.00	32	1K	6	10K	50	14200
	16 30		64.0		214	38.00	23	1K	6	10K	110	46800
	17 00		90.0		261	35.00	24	1K	8	10K	160	63000
81/05/29	01 00		23.0		132	29.00	23	1K	1K	10K	60	12900
	05 00		48.0		142	26.00	20	1K	3	10K	90	28800
	12 00		28.0		122	26.00	19	2K	2	10K	60	16200
81/05/30	12 45		10.0		228	42.00	35	1K	1	10K	30	5020
81/06/02	13 00		4.0		226	55.00	44	1K	1	10K	30	1500
81/06/03	15 00		101.0		158	39.00	28	1K	1	10K	80	21300
	15 30		48.0		133	26.00	21	1K	1	10K	100	24500
	17 30		100.0		410	31.00	15	1K	3	40	360	157000
81/06/04	08 30		19.0		203	47.00	34	1K	1K	10K	60	16800
81/06/09	12 00		6.0		248	78.00	66	1K	1K	10K	20	1380
81/06/16	13 00		7.0		277	93.00	82	1K	1K	10K	140	1270
81/06/23	12 00		6.0	8.0	288	99.00	70	1K	1K	10K	30	780
81/06/30	12 00		12.0		188	56.00	42	1K	2	10K	30	8900
81/07/07	12 15		19.0		266	82.00	68	1K	1K	10K	10K	2200
81/07/14	10 00		12.0		230	65.00	51	00	1K	10K	20	2800
81/07/21	12 15		0.00		161	58.00	50	1K	1K	10K	30	1560
81/07/26	21 30		65.0		124	30.00	28	1K	1K	10K	80	20100
81/07/27	02 00		36.0		119	30.00	25	1K	1K	10K	30	6800
	09 30		14.0		146	39.00	34	1K	1	10K	30	7500
81/07/28	12 00		17.0	6.0	180	44.00	39	1K	1K	10K	20	3440
81/08/04	12 00		11.0		208	64.00	52	1K	1	10K	60	860
81/08/12	15 30		7.0		264	78.00	63	1K	1K	10K	50	940
81/08/18	12 00		32.0	7.0	195	56.00	47	1K	1	10K	30	1180
81/08/25	12 00		14.0		178	46.00	40	1K	3	10K	50	1470
81/09/01	12 45		32.0		249	76.00	62	1K	3	10K	60	570
81/09/08	12 30		80.0		236	72.00	59	1K	1K	10K	30	680
81/09/15	12 00		10.0		179	47.00	46	1K	1K	10K	30	1260
81/09/22	12 00		28.0		261	79.00	60	1K	2	10K	30	430
81/09/29	12 00		9.0		229	75.00	68	1K	1	10K	50	450

Table 350.---Water-quality data for station 06714000  
South Platte River at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	IRON FE, DISS UG/L	LEAD PB, DISS UG/L	LEAD PB, TOT UG/L	MANGANESE MN UG/L	MANGANESE MN, DISS UG/L	ZINC ZN, DISS UG/L	ZINC ZN, TOT UG/L	FEC COLI M-FCAGAR /100ML	PHOS-T ORTHO MG/L P	BOD 20C 5DAY CAR MG/L
81/05/26	11 30		10K	10K	40	250.0	200.0	50	140	2700	1.160	4.0
81/05/28	12 30		20	10K	70	160.0	160.0	30	140	ON	0.700	5.0
	14 45		10K	10K	180	560.0	70.0	20	280	ON	0.450	11.0
	15 15		10	10K	200	510.0	80.0	30	310	ON	0.430	10.0
	15 45		20	10K	180	510.0	70.0	10	260	ON	0.420	11.0
	16 30		20	10K	550	1220.0	190.0	10	900	38000	0.360	19.0
	17 00		30	10K	700	1430.0	300.0	10K	1110	30000	0.300	27.0
81/05/29	01 00		40	10K	150	410.0	60.0	20	240	30000	0.300	8.0
	05 00		50	10K	310	830.0	90.0	40	540	100000	0.300	12.0
	12 00		60	10K	130	480.0	70.0	30	310	ON	0.200	9.0
81/05/30	12 45		20	10K	10	220.0	50.0	60	90	3400	0.220	3.0
81/06/02	13 00		10K	10K	30	200.0	110.0	50	240	3200	0.480	3.0
81/06/03	15 00		30	10K	320	510.0	70.0	30	450	ON	0.300	10.0
	15 30		50	10K	450	590.0	50.0	30	600	ON	0.200	13.0
	17 30		70	10K	800	4000.0	60.0	50	1500	ON	0.100	16.0
81/06/04	08 30		10	10K	30	390.0	70.0	30	260	ON	0.500	7.0
81/06/09	12 00		10K	10K	10K	260.0	180.0	30	90	6400	1.070	4.0
81/06/16	13 00		10	10K	40	310.0	270.0	40	140	1500	1.100K	4.0
81/06/23	12 00		10K	10K	20	330.0	10.0K	30	120	3000	1.710	7.0
81/06/30	12 00		30	10K	20	280.0	100.0	20	90	14000	0.570	7.0
81/07/07	12 15		30	10K	10K	380.0	270.0	30	90	2100	2.050	0.0N
81/07/14	10 00		10K	10K	20	260.0	180.0	20	320	38000	1.000	5.0
81/07/21	12 15		10K	10K	20	220.0	100.0	20	90	5000	0.790	6.0
81/07/26	21 30		330	20	210	860.0	90.0	80	410	ON	0.400	65.0
81/07/27	02 00		40	10K	40	290.0	60.0	50	100	ON	0.300	15.0
	09 30		20	10K	30	300.0	70.0	30	100	ON	0.300	9.0
81/07/28	12 00		10K	10K	20	210.0	80.0	10K	80	1700	0.340	6.0
81/08/04	12 00		10K	10K	10	200.0	150.0	30	130	2200	1.010	8.0
81/08/12	15 30		10K	10K	10		270.0	60	130	ON	1.470	5.0
81/08/18	12 00		30	10K	10K	190.0	160.0	30	90	1200	0.660K	6.0
81/08/25	12 00		10K	10K	10K	160.0	120.0	30	70	2200	0.450	5.0
81/09/01	12 45		10	10K	10K	240.0	240.0K	50	80	2100	1.900	5.0
81/09/08	12 30		10	10K	10K	220.0	200.0	30	70	1300	1.100	3.0
81/09/15	12 00		30	10K	10	190.0	130.0	30	70	7400	0.480	7.0
81/09/22	12 00		20	10K	10K	210.0	210.0K	30	70	2900	1.500	7.0
81/09/29	12 00		20	10K	10	210.0	210.0K	50	110	550	1.000	6.0

Table 351.--Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver

[J indicates estimated; K indicates less than; L indicates greater than;  
N indicates not requested; O indicates lost sample]

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTVY AT 25C MICROMHO	DO PROBE MG/L	COD LOWLEVEL MG/L	COD HI LEVEL MG/L	PH SU	RESIDUE TOT NFLT MG/L	NH3+NH4- N TOTAL MG/L	NO2-N TOTAL MG/L
80/04/01	13 30		6.0	546	854	12.4		25	8.20	186	0.830	
80/04/08	12 30		13.0	156		10.8		45	7.65	60	2.400	
80/04/15	13 15		14.5	268	662	8.8		35	8.30	66	0.690	
80/04/22	13 15		14.5	497	534	8.0		35	8.10	135	0.400	
80/04/29	14 00		13.5	1214	432	11.2		21	8.10	94	0.060	
80/05/06	13 30		11.5	3172	338	9.0	34.0		7.95	203	0.200	0.030
80/05/13	13 45		12.0	3154	291	10.4	28.0		8.10	366	0.200	0.030
80/05/20	13 45		13.0	2857	301	9.0	23.0		8.30	435	0.100	0.020
80/05/28	13 45		16.0	3280	290	8.4	21.0		8.00	775	0.100	0.020
80/06/03	13 30		15.5	2551	280	8.4	12.0		8.50	130	0.200	0.040
80/06/10	13 45		18.0	2380	270	9.0	24.0		8.00	108	0.010	0.030
80/06/17	13 45		18.5	2372	280	7.9	22.0		8.20	241	0.020	0.030
80/06/24	14 00		21.0	1696	340	6.8	15.0		8.00	340	0.120	0.040
80/07/01	13 45		21.5	850	419	6.6	18.0		8.20	62	0.230	0.080
80/07/08	13 45		24.5	649	458	7.0	15.0		8.20	53	0.200	0.080
80/07/11	20 30		19.5	1040	414			64	7.40	208	0.490	0.110
80/07/12	22 30		20.0	1230	416		47.0		7.20	376	0.430	0.120
80/07/15	01 30		19.0	1220	411		36.0		7.40	167	0.380	0.090
80/07/15	13 45		20.0	1030	427		20.0		8.00	82	0.180	0.060
80/07/22	13 15		24.0	790	467	6.9	20.0		7.90	98	0.140	0.060
80/07/22	13 15		27.0	578	510	7.3	25.0		7.90	133	0.180	0.090
80/07/29	13 15		23.0	609	540	6.5	20.0		8.20	100	0.170	0.070
80/08/05	13 15		21.0	604	526	7.3	21.0		8.20	151	0.170	0.070
80/08/12	13 00		22.0	198	655	7.4	31.0		8.20	79	0.390	0.150
80/08/14	14 45		20.0	371	610		26.0		7.70	88	0.250	0.100
80/08/14	15 45		19.0	730	400			327	6.90	647	0.930	0.010K
80/08/14	16 45		19.0	668	370			240	6.90	1040	0.840	0.120
80/08/17	17 45		20.0	1700	350			323	7.00	2850	0.820	0.160
80/08/20	20.0		20.0	2350	370			252	7.00	1960	1.700	0.160
80/08/20	19 30		18.0	1190	370			142	7.10	1530	0.490	0.130
80/08/20	24 00		18.0	1050	380			153	7.30	1430	0.630	0.160
80/08/15	13 00		22.0	506	480	5.5		67	7.80	468	0.320	0.120
80/08/19	13 45		21.0	478	573	6.8	24.0		8.40	126	0.200	0.080
80/08/26	13 30		22.0	154	710	6.6	46.0		8.60	159	0.640	0.180
80/09/02	12 00		20.0	292	683	7.3	28.0		7.70	129	0.900	0.220
80/09/09	02 30		15.7	564	540	6.6		110	8.30	720	1.960	0.290

Table 351.---Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver---Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	TOT KJEL N MG/L	NO2&NO3 N-TOTAL MG/L	PHOS-TOT MG/L P	T ORG C MG/L	SODIUM NA, TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD, DISS UG/L	CADMIUM CD, TOT UG/L	COPPER CU, DISS UG/L	COPPER CU, TOT UG/L
80/04/01	13 30		2.600	1.30	0.590	32.0		150		1		26
80/04/08	12 30		4.500	2.30	1.700	12.0				1		11
80/04/15	13 15		2.100	1.60	0.830	11.0				2		12
80/04/22	13 15		2.000	1.30	0.660	12.0		37		1		11
80/04/29	14 00		1.500	1.00	0.390	8.3				1		18
80/05/06	13 30		0.300	0.63	0.420	6.0	20.00	22	1K	8	10K	20
80/05/13	13 45		1.400	0.48	0.400	32.0	20.00	20	1K	16	10K	80
80/05/20	13 45		1.000	0.52	0.300	20.0	19.00	20	3	9	10K	40
80/05/28	13 45		1.500	0.42	0.200	8.0	15.00	18	1K	2	10K	10
80/06/03	13 30		0.300	0.35	0.220	6.0	15.00	16	1	3	10K	10
80/06/10	13 45		0.080	0.28	0.110	10.0	16.00	18	1K	5	10K	20
80/06/17	13 45		0.090	0.33	0.100	8.0	8.00	20	1K	6	10K	10
80/06/24	14 00		1.200	0.42	0.200	6.0	25.00	30	1K	4	20	20
80/07/01	13 45		0.700	0.80	0.280	7.0	30.00	32	1K	8	10K	20
80/07/08	13 45		0.800	1.00	0.400	6.0	41.00	28	1K	4	10K	10
80/07/11	20 30		1.800	1.07	0.480	18.0	35.00	34	3	4	10K	60
80/07/12	01 30		1.500	1.14	0.530	14.0	38.00	33	5K	5	10K	60
80/07/12	01 30		1.100	0.92	0.530	14.0	33.00	39	5	8	10	20
80/07/12	08 00		0.800	0.80	0.450	6.0	40.00	35	6K	6	10K	20
80/07/15	13 45		0.800	0.83	0.620	8.0	40.00	39	2	4	10K	20
80/07/22	13 15		1.400	1.02	0.520	12.0	46.00	42	1K	2	10K	20
80/07/29	13 15		1.000	0.79	0.380	9.0	42.00	46	1K	5	10	30
80/08/05	13 15		1.000	0.91	0.320	6.0	41.00	47	1K	7	10K	10
80/08/12	13 00		1.500	1.66	0.660	6.0	51.00	54	1K	1	10K	10
80/08/14	14 45		7.000	1.23	0.530	35.0	46.00	51	10	15	10K	30
80/08/14	15 45		7.700	0.39	1.500	98.0	28.00	30	7	20	30	120
80/08/14	16 45		6.000	0.74	1.590	68.0	28.00	28	3	5	20	150
80/08/14	17 45		7.700	0.87	3.210	80.0	28.00	28	7	8	10K	150
80/08/19	19 30		9.000	0.96	2.700	64.0	32.00	32	3	7	10K	130
80/08/22	22 00		5.000	1.20	2.090	43.0	30.00	30	3	7	10K	90
80/08/24	24 00		8.100	1.32	1.990	57.0	33.00	30	7	7L	10K	90
80/08/15	13 00		2.500	1.48	0.750	23.0	44.00	40	2K	2	10K	60
80/08/19	13 45		1.600	1.01	0.500	6.0	42.00	50	7K	7	10K	70
80/08/26	13 30		2.500	1.76	0.900	12.0	58.00	50	1K	1	10K	20
80/09/02	12 00		2.900	1.56	0.820	6.0	50.00	50	1K	2	10K	20
80/09/09	02 30		5.600	1.54	1.830	34.0	44.00	41	2	3	10K	40

Table 351.--Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	IRON FE, TOT UG/L	IRON FE, DISS UG/L	LEAD PB, DISS UG/L	LEAD PB, TOT UG/L	MANGNESE MN UG/L	MANGNESE MN, DISS UG/L	ZINC ZN, DISS UG/L	ZINC ZN, TOT UG/L	FEC COLI M-FCAGAR /100ML	FEC COLI MPNECMED /100ML
80/04/01	13	30	5400			200	280.0			170		
80/04/08	12	30	1800			30	250.0			90		
80/04/15	13	15	2100			33	190.0			70		
80/04/22	13	15	3500			43	240.0			90		
80/04/29	14	00	4400			44	100.0			80		
80/05/06	13	30	12000	100	10K	60	260.0	20.0	10K	160	680	
80/05/13	13	45	10000	130	10K	60	210.0	20.0	10K	340	76	
80/05/20	13	45	6500	100	10K	50	140.0	20.0	10K	80	1600	
80/05/28	13	45	3200	140	10K	40	80.0	10.0K	30K	90	1000	
80/06/03	13	30	3000	80	10	30	90.0	10.0	20	100	490	
80/06/10	13	45	2600	80	10K	20	80.0	10.0K	10K	40	660	
80/06/17	13	45	420	90	10	30	40.0	10.0K	30	40	680	
80/06/24	14	00	1800	70	10K	30	90.0	70.0	50K	40	140	
80/07/01	13	45	1800	120	10K	40	100.0	80.0	30	50	1500	
80/07/08	13	45	1600	10K	10K	40	100.0	60.0	50	40	320	
80/07/11	20	30	3300	30	10K	160	170.0	60.0	50	110	60000L	
80/07/11	22	30	5600	10K	10K	360	210.0	60.0	60	230	7600	
80/07/12	01	30	3200	40	10K	60	180.0	60.0	60	70	60000L	
80/07/12	08	00	2000	30	10K	30	130.0	50.0	40	70	1000	
80/07/15	13	45	1800	30	10K	40		50.0	50	70	120	
80/07/22	13	15	2900	10K	10K	40	200.0	70.0	40	130	240L	
80/07/29	13	15	2300	10K	20K	20	180.0	50.0	150K	150	500	
80/08/05	13	15	2400	10K	10K	90	250.0	30.0	10K	170	440	
80/08/12	13	00	1800	10K	10K	50	220.0	150.0	30	170	500	
80/08/14	14	45	2200	20	10K	30	180.0	90.0	120K	120	500	
80/08/15	15	45	10200	1020	110	310	440.0	220.0	190	380	70000	
80/08/16	16	45	10500	100	10K	380	600.0	180.0	60	450	22000	
80/08/17	17	45	45000	40	10K	360	1300.0	190.0	60	830	10000	
80/08/19	19	30	29000	80	10K	470	1500.0	150.0	60	630	5000	
80/08/20	22	00	32000	70	10K	260	1100.0	80.0	10K	400	10000	
80/08/24	24	00	30000	90	10K	240	1050.0	70.0	30	400	36000	
80/08/25	13	00	20000	60	10K	120	500.0	90.0	60	380	6400	
80/08/19	13	45	2700	300	10K	30	200.0	70.0	30	100	10	
80/08/26	13	30	3100	50	10K	50	320.0	230.0	60	120	17	
80/09/02	12	00	3800	110	10K	70	270.0	140.0	50	140	1400	
80/09/09	02	30	8700	70	10K	120	600.0	240.0	60	340	5800	

Table 351.--Water-quality data for station 06714130  
 South Platte River at 50th Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	PHOS-T		BOD 20C 5DAY CAR MG/L
			ORTHO	P	
80/04/01	13 30		0.360		
80/04/08	12 30		1.000		
80/04/15	13 15		0.550		
80/04/22	13 15		0.310		
80/04/29	14 00		0.010		
80/05/06	13 30		0.110		5.0
80/05/13	13 45		0.050		4.0
80/05/20	13 45		0.150		1.0
80/05/28	13 45		0.100		6.0
80/06/03	13 30		0.100		2.0
80/06/10	13 45		0.100		2.0
80/06/17	13 45		0.100		2.0
80/06/24	14 00		0.100		2.0
80/07/01	13 45		0.200		2.0
80/07/08	13 45		0.220		2.0
80/07/11	20 30		0.280		8.0
	22 30		0.260		4.0
80/07/12	01 30		0.300		6.0
	08 00		0.290		2.0
80/07/15	13 45		0.160		2.0
80/07/22	13 15		0.300		2.0
80/07/29	13 15		0.220		3.0
80/08/05	13 15		0.150		2.0
80/08/12	13 00		0.580		4.0
80/08/14	14 45		0.380		3.0
	15 45		0.200		70.0
	16 45		0.380		34.0
	17 45		0.240		31.0
	19 30		0.200		27.0
	22 00		0.200		13.0
	24 00		0.150		12.0
80/08/15	13 00		0.300		7.0
80/08/19	13 45		0.300		7.0
80/08/26	13 30		0.500		7.0
80/09/02	12 00		0.580		5.0
80/09/09	02 30		0.750		20.0

Table 351.--Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTVY AT 25C MICROMHO	DO PROBE MG/L	COD LOWLEVEL MG/L	COD HI LEVEL MG/L	PH SU	RESIDUE TOT NFLT MG/L	NH3+NH4- N TOTAL MG/L	NO2-N TOTAL MG/L
80/09/09	06 00		15.2	908	463	8.1		107	7.90	1080	1.900	0.180
	11 00		14.8	622	408	8.8		78	7.00	225	0.750	0.140
80/09/10	12 15		16.0	382	617	8.0			8.00	110	0.840	0.170
80/09/16	12 00		16.0	170	894	8.6	34.0		8.30	15	2.300	0.360
80/09/23	13 00		17.0	150	860	9.6	22.0		7.50	14	3.200	0.390
80/09/30	12 30		16.0	89	1060	10.0	22.0		7.80	33	2.540	0.490
80/10/07	13 30		15.4	86	1080	10.8J	24.0		7.90	10	2.600	0.480
80/10/14	12 00		15.5	69	1035	7.5J	22.0		8.00	10	2.600	0.460
80/10/21	14 00		16.0	106	1190		27.0		7.30	9	4.100	0.430
80/10/28	13 30		11.0	315	720	9.4	40.0		8.70	57	1.800	0.140
80/11/04	13 00		14.0	156	720	9.2	23.0		8.20	13	2.200	0.170
80/11/11	13 45		15.0	110	990	10.8	20.0		8.00	5	3.400	0.220
80/11/18	13 30		10.8	73	1100	9.6	25.0		8.20	8	4.000	
80/11/25	14 30		8.5	215	1710	10.2		86	7.90	64	3.300	0.170
80/12/02	14 00		8.0	117	935	12.0	21.0		8.30	11	4.000	0.210
80/12/09	14 00		9.6	71	1100	12.2	32.0		8.40	15	4.200	0.260
80/12/16	13 30		13.0	97	1040	10.8	26.0		8.25	12	4.000K	0.240
80/12/30	14 15		10.2	139	910	9.9	32.0		7.80	10	5.200	0.190

Table 351.--Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	TOT KJEL N MG/L	NO2&NO3 N-TOTAL MG/L	PHOS-TUT MG/L P	T ORG C C MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,DISS UG/L	CADMIUM CD,TOT UG/L	COPPER CU,DISS UG/L	COPPER CU,TOT UG/L
80/09/09	06 00		5.000	1.20	2.100	36.0	37.00	32	3	6	10K	140
	11 00		3.500	1.10	0.900	22.0	36.00	34	1K	3	10K	20
80/09/10	12 15		2.500	1.51	0.850	8.0	52.00	44	1	2	10K	120
80/09/16	12 00			3.00	1.100	5.0	85.00	71	1K	4	10K	20
80/09/23	13 00		4.000	2.64	1.560	3.0	84.00	70	1K	1	10K	30
80/09/30	12 30		4.000	3.20	1.820	20.0	99.00	79	1K	1	10K	10
80/10/07	13 30		3.800	3.38	1.710	60.0	97.00	82	1K	1	10K	30
80/10/14	12 00		4.000	3.36	1.530	8.0	100.00	77	1K	3	10K	10
80/10/21	14 00		5.400	3.30	1.900	10.0	111.00	82	1K	2	10K	10
80/10/28	13 30		4.100	1.80	1.010	16.0	65.00	54	1K	3	20K	20
80/11/04	13 00		3.000	2.20	0.900	4.0	74.00	58	1K	1	20K	20
80/11/11	13 45		4.900	2.50	1.500	8.0	91.00	73	1K	1	20K	20
80/11/18	13 30		5.400	2.90	1.600	10.0	110.00	92	1K	2	10K	10
80/11/25	14 30		5.700	2.25	1.500	66.0	373.00	324	1K	2	20K	20
80/12/02	14 00		5.800	2.70	1.400	8.0	88.00	71	1K	1	10K	10
80/12/09	14 00		5.100	2.74	1.650	10.0	115.00	119	1K	3	10K	10
80/12/16	13 30		4.000	2.94	1.720	8.0	94.00	74	1K	3	10K	10
80/12/30	14 15		6.600	2.53	1.980	12.0	87.00	68	3K	3	20K	20



Table 351.--Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	IRON FE, TOT UG/L	IRON FE, DISS UG/L	LEAD PB, DISS UG/L	LEAD PB, TOT UG/L	MANGNESE MN UG/L	MANGNESE MN, DISS UG/L	ZINC ZN, DISS UG/L	ZINC ZN, TOT UG/L	FEC COLI M-FCAGAR /100ML	FEC COLI MPNECMED /100ML
80/09/09	06 00		17000	80	10K	190	1050.0	210.0	60	500	12000	
	11 00		6500	70	10K	80	320.0	110.0	40	160	6200	
80/09/10	12 15		2900	10K	10K	60	240.0	80.0	50	110	20K	
80/09/16	12 00		430	30	10K	40	230.0K	230.0K	70	130	26000	
80/09/23	13 00		420	10K	10K	10	290.0	280.0	60	80	7600	
80/09/30	12 30		690	10K	10K	10	360.0	280.0	50	200	15000	
80/10/07	13 30		390	10K	20K	20	300.0	300.0K	50	100	5900	
80/10/14	12 00		400	10K	10K	10	300.0	300.0K	70	90	3800	
80/10/21	14 00		420	10K	20K	20	310.0	280.0	60	100	1200	
80/10/28	13 30		1500	10K	10K	50	270.0	190.0	60	130	2900	
80/11/04	13 00		440	10K	10K	30	200.0	150.0	80	110	440	
80/11/11	13 45		350	10K	10K	10	270.0	250.0	60	200	240	
80/11/18	13 30		460	10K	10K	30	360.0	360.0K	90	440	1300	
80/11/25	14 30		2000	80	10	100	290.0	260.0	130	200	1800	
80/12/02	14 00		360	10K	30K	30	260.0	260.0K	70	120	190	
80/12/09	14 00		560	10K	10K	30	320.0	290.0	80	130	520	
80/12/16	13 30		440	10K	10K	30	300.0	290.0	60	130	270	
80/12/30	14 15		360	10K	20K	20	280.0	250.0	60	110	60	

Table 351.--Water-quality data for station 06714130  
 South Platte River at 50th Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	PHOS-T		BOD 20C SDAY CAR MG/L
			ORTHO	P	
80/09/09	06 00		0.600		19.0
	11 00		0.400		13.0
80/09/10	12 15		0.500		9.0
80/09/16	12 00		0.950		5.0
80/09/23	13 00		1.480		5.0
80/09/30	12 30		1.390		9.0
80/10/07	13 30		1.340		7.0
80/10/14	12 00		1.270		7.0
80/10/21	14 00		1.750		8.0
80/10/28	13 30		0.730		11.0
80/11/04	13 00		0.750		5.0
80/11/11	13 45		1.340		6.0
80/11/18	13 30		1.230		7.0
80/11/25	14 30		1.170		21.0
80/12/02	14 00		1.090		5.0
80/12/09	14 00		1.390		10.0
80/12/16	13 30		1.500		5.0
80/12/30	14 15		1.550		8.0

Table 351.--Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CONDUCTIVITY AT 25C MICROMHO	ON PROBE MG/L	COD LOWLEVEL MG/L	COD HI LEVEL MG/L	PH SU	T ALK CACO3 MG/L	RESIDUE DISS-105 C MG/L	RESIDUE TOT NFLT MG/L
81/01/06	13 00			96	1000		34.0			219		12
81/01/13	14 00			69	1080		41.0			235		10
81/01/20	12 00			110	1080		31.0			232		11
81/01/27	13 30			148	872		22.0			179		13
81/02/03	13 30			101	1050		37.0			186		16
81/02/10	13 15			70	850		22.0			189		10
81/02/17	13 00			164	843		44.0			180		19
81/02/24	11 00			110	928		28.0			191		18
81/03/03	13 00			108	1020			116		188		64
	16 45			233	920			150		156		182
81/03/04	13 00			304	1070			224		108	612	394
				785	650			224		91	388	754
81/03/05	13 00			352	880			91		101		150
	18 30			555	620			96		102		363
81/03/06	11 30			180	760		38.0			144	449	175
81/03/10	13 15			122	967		28.0			192		22
81/03/17	13 00			80	988			53		204		55
81/03/24	12 30			83	1010		25.0			212		15
81/03/31	12 00			86	960		30.0			202		41
81/04/03	09 30			291	660			94		120	324	128
	13 00			573	740			143		146	448	413
	15 30			483	690			105		126	353	252
	23 45			268	687			53		138	418	129
81/04/04	14 00			151	810			36		154	484	108
81/04/07	13 45			129	1060			30		215	684	22
81/04/14	14 00			274	700			33		145	384	80
81/04/21	12 45			301	620			35		145	348	141
81/04/28	13 30			187	850			31		177	529	20
81/05/05	13 30			224	927			32		198	572	30
81/05/12	11 15			255	820			36		157	428	54
81/05/13	01 45			850	480			74		95	284	309
	13 00			359	590			38		122	363	92
81/05/16	15 30			532	578			82		116	345	269
	18 00			461	556			84		113	337	120
81/05/17	14 00			591	423			52		89	295	335
	20 00			1430	330			72		72	199	991
81/05/18	12 30			367	540			33		113	338	265
81/05/19	12 00				640			22		141	534	85
	13 30			319	670			22		146	577	71

Table 351.--Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver--Continued

DATE FRDA TU	TIME OF DAY	DEPTH FEET	CH3+CH4- W TOTAL MG/L	NO2+H TOTAL MG/L	TOT KJEL N MG/L	NO2&NO3 N-TOTAL MG/L	PHOS-TOT MG/L P	T ORG C C MG/L	TOT HARD CACO3 MG/L	SODIUM NA,TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CD,DISS UG/L
81/01/06	13 00		4.500	0.200	5.200	2.70	1.540	9.0	311	95.00	77	1K
81/01/13	14 00		5.200	0.300	7.100	2.70	1.400	14.0	324	104.00	82	1K
81/01/20	12 00		6.200	0.210	6.800	2.35	2.620	10.0	314	99.00	80	2K
81/01/27	13 30		3.700	0.110	5.300	2.30	1.400	10.0	259	72.00	66	2K
81/02/03	13 30		3.400	0.120	4.500	2.60	1.600	22.0	282	106.00	111	1K
81/02/10	13 15		3.600	0.110	4.700	2.00	1.400	10.0	263	70.00	67	1K
81/02/17	13 00		3.600	0.140	4.900	2.60	1.260	7.0	280	70.00	66	14K
81/02/24	11 00		4.400	0.140	5.300	2.50	1.420	10.0	274	76.00	66	1K
81/03/03	13 00		5.000	0.290	7.900	3.37	1.950	35.0	278	99.00	95	1K
81/03/04	16 45		5.000	0.300	8.300	2.60	1.690	48.0	224	92.00	98	1K
81/03/13	13 00		2.700	0.120	6.100	1.50	1.940	56.0	162	143.00	206	1K
81/03/17	18 30		1.700	0.080	6.200	4.52	1.900	48.0	123	70.00	96	1K
81/03/05	13 00		2.200	0.100	4.500	2.40	0.850	24.0	142	105.00	146	1K
81/03/06	18 30		1.300	0.080	4.100	2.00	0.790	26.0	151	61.00	76	4K
81/03/10	11 30		2.600	0.110	4.400	1.90	0.690	17.0	205	68.00	68	1K
81/03/13	13 15		4.200	0.170	5.000	2.80	1.090		282	83.00	78	0
81/03/17	13 00		4.300	0.300	5.500	2.60	1.510		296	87.00	75	2
81/03/24	12 30		5.000	0.210	5.500	2.84	1.600		309	98.00	79	0
81/03/31	12 00		4.100	0.110	5.100	2.20	1.300	7.0	306	96.00	71	0
81/04/03	09 30		3.100	0.120	4.700	1.56	1.000	30.0	172	62.00	52	1K
81/04/03	13 00		5.200	0.120	8.500	1.38	2.250	41.0	204	71.00	64	1K
81/04/04	14 00		3.400	0.080	6.000	1.03	1.720	42.0	178	62.00	56	1K
81/04/07	13 45		2.500	0.060	3.900	1.22	0.900	18.0	202	65.00	58	1K
81/04/14	14 00		4.300	0.050	3.600	1.82	1.000	40.0	237	74.00	60	1K
81/04/21	12 45		1.300	0.140	4.700	2.00	1.550	14.0	311	98.00	78	1K
81/04/21	12 45		0.950	0.080	2.700	1.57	0.600	9.0	217	57.00	50	1K
81/04/28	13 30		3.400	0.200	4.800	1.49	0.660	16.0	192	53.00	42	1K
81/05/05	13 30		3.600	0.140	5.000	1.89	1.500	9.0	240	74.00	59	1K
81/05/12	11 15		2.600	0.120	4.700	1.99	1.510	7.0	272	78.00	68	1
81/05/13	01 45		1.300	0.100	3.500	1.68	1.250	12.0	223	63.00	54	1K
81/05/13	13 00		1.000	0.070	2.100	1.06	1.080	38.0	140	79.00	35	1K
81/05/16	15 30		2.200	0.150	5.600	1.28	0.700	11.0	189	47.00	40	1K
81/05/17	18 00		1.380	0.120	3.300	1.39	1.160	40.0	162	49.00	44	1K
81/05/17	14 00		0.750	0.070	5.000	1.51	0.760	34.0	168	45.00	30	1K
81/05/17	20 00		0.910	0.070	3.700	1.72	0.820	30.0	132	40.00	31	1K
81/05/18	12 30		1.000	0.070	1.900	0.66	1.470	32.0	105	28.00	10	1K
81/05/19	12 00		1.100	0.070	1.900	1.18	0.680	13.0	160	44.00	31	1K
81/05/19	13 30		1.100	0.070	1.900	1.29	0.550	35.0	205	48.00	40	1K
				0.070	2.100	1.53	0.550	6.0	212	51.00	43	1K

Table 351.--Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	CADMIUM CD, TOT UG/L	COPPER CU, DISS UG/L	COPPER CU, TOT UG/L	IRON FE, TOT UG/L	IRON FE, DISS UG/L	LEAD PB, DISS UG/L	LEAD PB, TOT UG/L	MANGNESE MN UG/L	MANGNESE MN, DISS UG/L	ZINC ZN, DISS UG/L
81/01/06	13 00		1	30K	30	550	10K	10K	10	390.0	300.0	80
81/01/13	14 00		4	30K	30	300	40	10K	10	390.0	320.0	60
81/01/20	12 00		2	30K	30	300	30	10K	10	350.0	310.0	90
81/01/27	13 30		2	20K	20	370	10K	10K	10	300.0	200.0	60
81/02/03	13 30		3	20	30	440	10K	10K	30	280.0	250.0	70
81/02/10	13 15		21	10K	30	240	10K	10K	30	250.0	230.0	60
81/02/17	13 00		14	10K	20	350	10K	10K	30	290.0	220.0	60
81/02/24	11 00		5	10K	30	300	10K	10K	30	100.0	100.0K	70
81/03/03	13 00		3	10	30	960	50	10K	90	300.0	230.0	70
	16 45		5	10K	60	6500	80	10K	190	450.0	210.0	70
81/03/04	13 00		8	20	110	12000	70	10K	420	490.0	140.0	70
	18 30		5	50	90	15000	60	10K	290	740.0	180.0	30
81/03/05	13 00		3	10K	30	4900	30	10K	150	280.0	110.0	50
	18 30		4	20	60	1000	40	10K	170	150.0	150.0K	30
81/03/06	11 30		3	10	40	7200	20	10K	70	360.0	180.0	30
81/03/10	13 15		4	20K	20	420	90	10K	30	280.0	250.0	60
81/03/17	13 00		5	20	60	2700	40	0	90	370.0	220.0	50
81/03/24	12 30		6	0	20	330	20	20	50	440.0	110.0	60
81/03/31	12 00		1	0	30	1500	30	0	10	270.0	230.0	60
81/04/03	09 30		1	10K	60	2700	80	10K	110	270.0	190.0	70
	13 00		3	10K	70	8300	60	10K	110	460.0	240.0	30
	15 30		4	10K	50	9500	440	10K	110	400.0	230.0	20
	23 45		1K	10K	20	4680	30	10K	60	290.0	170.0	10K
81/04/04	14 00		1K	10K	20	4440	10K	10K	10	270.0	150.0	10K
81/04/07	13 45		1K	10K	20		10K	10K	10K	280.0	220.0	30
81/04/14	14 00		3	10K	10	2070	10K	30	30K	210.0	120.0	100K
81/04/21	12 45		2	10K	30	4400	10K	10K	30	240.0	80.0	30
81/04/28	13 30		1K	10K	20	740	10K	20	20	230.0	160.0	30
81/05/05	13 30		1K	10K	80	870	330	20	20	240.0	230.0	80
81/05/12	11 15		1K	10K	20	1880	30	10K	20	200.0	120.0	50
81/05/13	01 45		2	10K	50	9600	30	10	90	460.0	120.0	30
	13 00		1K	10K	10	2600	70	20	20K	200.0	80.0	30
81/05/16	15 30		1K	10K	30	4440	30	10K	80	300.0	120.0	60
	18 00		3	10K	50	3500	10K	10K	70	280.0	120.0	60
81/05/17	14 00		2	10K	60	12500	30	10K	80	640.0	60.0	30
	20 00		3	10K	90	19600	50	10K	250	570.0	60.0	30
81/05/18	12 30		6	10K	40	10400	30	10K	60	330.0	40.0	20
81/05/19	12 00		1K	10K	20	2150	10	10K	10K	200.0	100.0	30
	13 30		1K	10K	30	2250	10	10K	10K	190.0	100.0	30

Table 351.--Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	TEMP F, T	FEC COLI M-FECAGAR /100ML	FEC COLI MPNFCMED /100ML	PHOS-P URTHJ MG/L P	BOD 20C SDAY CAR MG/L
81/01/06	13 00		220	410		1.250	9.0
81/01/13	14 00		110	980		1.070	19.0
81/01/20	12 00		100	1160		2.350	8.0
81/01/27	13 30		90	620		1.030	6.0
81/02/03	13 30		90	700		1.000	8.0
81/02/10	13 15		80	320		1.400K	8.0
81/02/17	13 00		70	420		1.030	6.0
81/02/24	11 00		90	420		1.180	6.0
81/03/03	13 00		190	2500		1.150	26.0
	16 45		270	13600		1.200	26.0
81/03/04	13 00		450		17000	0.550	22.0
81/03/05	18 30		90	5400		0.380	22.0
81/03/06	11 30		150			0.450	13.0
81/03/10	13 15		220	3000		0.320	13.0
81/03/17	13 00		120	390		0.430	7.0
81/03/24	12 30		160	2200		1.050	8.0
81/03/31	12 00		150	2800		1.090	9.0
81/04/03	09 30		110	620		1.280	5.0
	13 00		180	18000		0.740	4.0
	15 30		310	3600		0.580	17.0
	23 45		260	2200		0.860	21.0
81/04/04	14 00		120	5700		0.780	0.00
81/04/07	13 45		140	1200		0.420	7.0
81/04/14	14 00		110	1140		0.660	5.0
81/04/21	12 45		100	490		1.220	6.0
81/04/28	13 30		90	1000		0.280	6.0
81/05/05	13 30		100	1120		0.360	4.0
81/05/12	11 15		110	5800		1.100	8.0
81/05/13	01 45		120	1900		1.300	6.0
	13 00		240	3700		1.000	6.0
81/05/16	15 30		90	3600		0.320	12.0
	18 00		180	ON		0.340	5.0
81/05/17	14 00		150	ON		0.600	11.0
	20 00		160	ON		0.500	8.0
81/05/18	12 30		390	ON		0.420	8.0
81/05/19	12 00		100	ON		0.180	11.0
	13 30		80	1100		0.350	6.0
			80	650		0.320	4.0
						0.320	10.0

Table 351.--Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	WATER TEMP CENT	STREAM FLOW, INST-CFS	CNDUCTIVY AT 25C MICROMHO	DO PROBE MG/L	COD LOWLEVEL MG/L	COD HI LEVEL MG/L	PH SU	T ALK CACO3 MG/L	RESIDUE DISS-105 C MG/L	RESIDUE TOT NFLT MG/L
81/05/26	12 30			139	893			23		188	574	16
81/05/28	13 15		19.4	268	590			42	7.85	136	371	190
	15 00		19.5	422	580			102	7.90	132	369	324
	15 45		19.5	672	520			109	7.95	122	330	398
	16 30		19.3	760	460			123	7.95	114	324	664
	17 00		19.0	1420	430			00	7.80	118	333	1390
	17 30		18.3	1350	490			287	7.90	140	361	1910
81/05/29	02 00			501	350			44		88	229	390
	06 15			1700	350			142		83	238	1060
	13 30			730	340			40		76	218	365
81/05/30	13 45			501	526	6.8		25		133	338	00
81/06/02	14 00		22.0	242	654			17	8.00	163	0N	45
81/06/09	13 30		25.2	77	777	10.0		24	8.20	185	562	27
81/06/16	13 45		24.0	42	936	8.6		26	8.10	197	598	20
81/06/23	13 30		26.0	84	997	5.2		44	8.20	210	658	15
81/06/30	13 00		23.7	148	663	6.9		34	7.50	137	424	193
81/07/07	13 15		28.0	124	960	7.5		28	7.65	214	613	52
81/07/14	11 00		22.0	136	816	6.8		22	7.70	173	543	55
81/07/21	13 30		26.5	198	710			168	8.40	149	413	42
81/07/26	21 45		18.0	1720	304			212	7.85	58	207	537
	23 45		18.0	1210	426			52	8.35	100	305	2260
81/07/27	11 15		19.5	394	515	8.0		21	8.10	102	322	206
81/07/28	13 00		24.0	333	620	6.0		16	8.20	130	389	109
81/08/04	13 30		27.0	224	640	7.7		24	8.40	154	470	26
81/08/12	16 30		22.6	176	920			14		199	560	32
81/08/18	13 30		24.5	264	680	7.0		14	8.25	143	424	43
81/08/25	13 15		23.5	301	600	6.9		20	7.90	130	362	57
81/09/01	14 45		23.6	173	880	7.0		27	8.00	191	806	12
81/09/08	13 30		23.8	181	826	6.9		27	8.30	182	530	20
81/09/15	13 15		22.0	261	582	5.8		19	8.40	132	384	46
81/09/22	13 30		23.0	108	857	7.1		16	8.40	189	557	12
81/09/29	13 30		20.0	86	840	7.3			7.90	176	552	11

Table 351.--Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	NH3+NH4- N DISS MG/L	NH3+NH4- N TOTAL MG/L	NO2-N DISS MG/L	NO2-N TOTAL MG/L	KJELD N DISS MG/L	TOT KJEL N MG/L	NO2&NO3 N-TOTAL MG/L	NO2&NO3 N-DISS MG/L	PHOS-TOT MG/L	PHOS-DIS MG/L
81/05/26	12 30		3.600	3.600	0.190	0.200	4.300	4.400	2.40	2.0	1.000	0.940
81/05/26	13 15			1.260		0.140		3.500	1.30		1.100	
	15 00			1.080		0.140		3.300	1.24		1.300	
	15 45			0.960		0.140		4.000	1.15		1.200	
	16 30			0.900		0.160		4.300	1.07		1.700	
	17 00			1.000		0.140		6.200	0.000		0.0000	
	17 30			1.920		0.120		10.500	0.98		4.390	
81/05/29	02 00			0.860		0.090		3.500	1.08		0.930	
	06 15			1.080		0.060		4.300	0.83		1.830	
	13 30			0.500		0.060		3.000	0.84		0.910	
81/05/30	13 45			0.500		0.060		1.700	1.03		0.730	
81/06/02	14 00			1.260		0.130		2.400	1.71		1.180	
81/06/09	13 30			2.200		0.270		3.200	2.00		1.190	
81/06/16	13 45			2.900		0.410		4.000	2.40		0.720	
81/06/23	13 30			2.300		0.600		3.300	2.80		1.680	
81/06/30	13 00		1.400	1.500	0.250	0.290	1.70	3.000	1.90	1.7	0.900	0.620
81/07/07	13 15			4.600		0.540		8.000	2.80		2.190	
81/07/14	11 00			2.700		0.270		5.500	1.66		1.220	
81/07/21	13 30			1.370		0.260		3.500	1.58		1.160	
81/07/26	21 45			0.970		0.060		4.500	0.96		1.310	
	23 45			1.110		0.140		7.500	0.99		2.800	
81/07/27	11 15			0.790		0.140		2.500	1.12		0.800	
81/07/28	13 00			0.800	0.1	0.150	2.000	3.000	1.27		1.000	0.830
81/08/04	13 30		1.000	1.800		0.330		3.500	1.88		1.400	
81/08/12	16 30			3.500		0.400		5.000	2.08		1.630	
81/08/18	13 30			1.600		0.240		2.800	1.69		0.700	
81/08/25	13 15		1.000	1.000	0.19	0.200	7.000		1.42	0.2	0.850	0.0000
81/09/01	14 45			3.300		0.440		4.500	2.20		1.720	
81/09/08	13 30			3.400		0.320		4.500	2.24		1.150	
81/09/15	13 15			1.160		0.220		2.500	1.48		0.860	
81/09/22	13 30			3.000		0.360		4.000	2.48		1.550	
81/09/24	13 30							3.400	2.58		0.830	
81/09/29	13 30			2.700		0.380		3.400	2.58		0.830	



Table 351.--Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	T C MG/L	D C MG/L	TOT HARD CACO <sub>3</sub> MG/L	SODIUM NA, TOT MG/L	CHLORIDE TOTAL MG/L	CADMIUM CU, DISS UG/L	CADMIUM CD, TOT UG/L	COPPER CU, DISS UG/L	COPPER CU, TOT UG/L	IRON FE, TOT UG/L
81/05/26	12 30		18.0		259	7.00	00	1K	1K	1K	20	660
81/05/28	13 15		14.0	9.0	176	50.00	40	1K	2	10K	30	6300
	15 00		20.0		188	48.00	39	1K	3	10K	50	9900
	15 45		26.0		172	45.00	36	1K	3	10K	60	9900
	16 30		36.0		157	42.00	83	1K	3	10K	60	17400
	17 00		50.0		197	39.00	24	1K	6	10K	90	35600
	17 30		88.0		240	42.00	27	1K	9	10K	150	58000
81/05/29	02 00		28.0		114	28.00	22	1K	1	10K	60	13500
	06 15		42.0		144	28.00	20	1K	4	10K	90	27500
	13 30		20.0		368	24.00	18	1K	4	10K	60	13600
81/05/30	13 45		10.0		197	40.00	32	1K	1	10K	30	7100
81/06/02	14 00		6.0		231	56.00	46	1K	3	10K	30	1510
81/06/09	13 30		6.0		228	83.00	66	1K	1K	10K	30	1020
81/06/16	13 45		7.0		283	92.00	74	1K	1K	10K	100	730
81/06/23	13 30		7.0		298	105.00	72	1K	1K	10K	30	530
81/06/30	13 00		14.0	8.0	193	55.00	42	1K	8	20	60	8000
81/07/07	13 15		12.0		291	85.00	78	1K	1K	10K	10K	2100
81/07/14	11 00		14.0		238	70.00	54	1K	1K	10K	10K	2300
81/07/21	13 30		0.00		210	60.00	51	1K	1K	10K	30	1260
81/07/26	21 45		42.0		95	25.00	25	1K	1K	10K	70	12400
	23 45		62.0		179	38.00	26	1K	3	10K	180	7200
81/07/27	11 15		13.0		152	40.00	38	1K	1K	10K	30	7400
81/07/28	13 00		15.0	8.0	190	48.00	41	1K	1	10K	20	3420
81/08/04	13 30		14.0		222	68.00	55	1K	2	10K	70	600
81/08/12	16 30		6.0		273	83.00	65	1K	1K	10K	50	850
81/08/18	13 30		33.0		204	59.00	49	1	1K	10K	80	1620
81/08/25	13 15		14.0	7.0	205	49.00	42	1K	2	10K	30	1310
81/09/01	14 45		24.0		264	82.00	65	1K	3	10K	30	400
81/09/08	13 30		13.0		248	73.00	62	1K	1K	10K	40	520
81/09/15	13 15		10.0		187	50.00	50	1K	1K	10K	60	1090
81/09/22	13 30		17.0		268	79.00	63	1K	1	10K	30	320
81/09/29	13 30		9.0		259	77.00	68	2K	2	10K	30	320

Table 351.--Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	IRON FE, DISS UG/L	LEAD PB, DISS UG/L	LEAD PB, TOT UG/L	MANGNESE MN, DISS UG/L	MANGNESE MN, DISS UG/L	ZINC ZN, DISS UG/L	ZINC ZN, TOT UG/L	FEC COLI M-F, CAGAR /100ML	FEC COLI MPNECMED /100ML	PHOS-T ORTHO MG/L P
81/05/26	12 30		10K	10K	10K	220.0	190.0	20	80	25000		0.900
81/05/28	13 15		10	10K	50	490.0	180.0	20	120	ON		0.690
	15 00		10K	10K	150	420.0	150.0	30	220	ON		0.560
	15 45		20	10K	150	310.0	140.0	30	270	ON		0.430
	16 30		20	10K	240	680.0	150.0	30	370	ON		0.400
	17 00		20	10K	460	1180.0	200.0	20	720	ON		0.370
	17 30		20	10K	580	1210.0	260.0	10	1200	ON		0.340
81/05/29	02 00		60	10K	140	410.0	60.0	30	270	15000		0.290
	06 15		40	10K	280	820.0	80.0	30	540	26000		0.310
	13 30		60	10K	100	410.0	40.0	20	210	ON		0.180
81/05/30	13 45		60	10K	40	320.0	40.0	30	170	3100		0.250
81/06/02	14 00		10K	10K	20	170.0	90.0	10	160	2000		0.510
81/06/09	13 30		10K	10K	10	220.0	160.0	30	70	5700		0.900
81/06/16	13 45		60	10K	30	290.0	250.0	40	100	6300		0.630
81/06/23	13 30		10K	10K	10K	310.0	290.0	10K	110	460		1.410
81/06/30	13 00		30	10K	20	340.0	170.0	40	120	53000		0.480
81/07/07	13 15		10K	10K	10	290.0	280.0	70	100	5200		1.620
81/07/14	11 00		10K	10K	10K	190.0	170.0	20	80	58000		0.900
81/07/21	13 30		10K	10K	10	550.0	30.0	10K	350	ON		0.780
81/07/26	21 45		190	10K	200	2300.0	40.0	60	700	ON		0.300
	23 45		50	10K	330	330.0	50.0	50	700	ON		0.200
81/07/27	11 15		20	10K	30	210.0	10.0K	30	100	ON		0.300
81/07/28	13 00		10K	10K	10	210.0	80.0	10K	80	1600		0.390
81/08/04	13 30		10K	10K	10	170.0	120.0	20	90	1490		0.720
81/08/12	16 30		10K	10K	10	270.0	270.0	30	70	ON		1.600
81/08/18	13 30		30	10	10	180.0	130.0	20	110	1000		0.660
81/08/25	13 15		10K	10K	10K	180.0	110.0	40	70	2200		0.540
81/09/01	14 45		10K	10K	10K	220.0	220.0K	30	60	2400		1.410
81/09/08	13 30		20	10K	10K	200.0	190.0	50	60	1900		0.950
81/09/15	13 15		10	10K	10K	180.0	120.0	30	70	7200		0.500
81/09/22	13 30		10	10K	10K	210.0	190.0	30	60	4800		1.250
81/09/29	13 30		10K	10K	10K	200.0	200.0K	30	60	2100		0.710

Table 351.--Water-quality data for station 06714130  
South Platte River at 50th Avenue, at Denver--Continued

DATE FROM TO	TIME OF DAY	DEPTH FEET	BOD 20C SDAY CAR MG/L
01/05/26	12 30		6.0
01/05/28	13 15		6.0
	15 00		11.0
	15 45		11.0
	16 30		12.0
	17 00		17.0
	17 30		23.0
01/05/29	02 00		7.0
	06 15		11.0
	13 30		8.0
01/05/30	13 45		4.0
01/06/02	14 00		5.0
01/06/09	13 30		3.0
01/06/16	13 45		8.0
01/06/23	13 30		7.0
01/06/30	13 00		11.0
01/07/07	13 15		0.0N
01/07/14	11 00		6.0
01/07/21	13 30		7.0
01/07/26	21 45		29.0
	23 45		18.0
01/07/27	11 15		9.0
01/07/28	13 00		6.0
01/08/04	13 30		10.0
01/08/12	16 30		4.0
01/08/18	13 30		7.0
01/08/25	13 15		6.0
01/09/01	14 45		7.0
01/09/08	13 30		5.0
01/09/15	13 15		8.0
01/09/22	13 30		8.0
01/09/29	13 30		8.0

## RUNOFF DATA FOR NORTH AVENUE AND ROONEY GULCH RAINFALL SIMULATIONS

Runoff data are presented for the following rainfall-simulation sites: North Avenue sites in tables 352 through 360 and Rooney Gulch sites in tables 361 through 364.

A definition of the abbreviation used in the tables is:

$\text{ft}^3/\text{s}$ =cubic foot per second

Table 352.--North Avenue rainfall-runoff simulation Site 1, June 2, 1980  
 (Rainfall intensity is 0.5 inches per hour)

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
902:00	0.00000	933:00	0.011
907:00	0.00023	934:00	0.011
907:30	0.00079	935:00	0.011
908:00	0.0022	936:00	0.011
908:30	0.0057	937:00	0.011
909:00	0.0057	938:00	0.011
909:30	0.0074	939:00	0.011
910:00	0.0074	940:00	0.011
911:00	0.0095	941:00	0.011
911:30	0.0099	942:00	0.011
912:00	0.0099	943:00	0.011
912:30	0.011	944:00	0.011
913:00	0.011	945:00	0.011
913:30	0.011	946:00	0.011
914:00	0.011	947:00	0.011
914:30	0.011	948:00	0.011
915:00	0.012	949:00	0.011
916:00	0.012	950:00	0.011
916:30	0.011	951:00	0.011
917:00	0.011	952:00	0.011
917:30	0.011	953:00	0.011
918:00	0.011	954:00	0.011
919:00	0.011	955:00	0.011
920:00	0.011	956:00	0.011
921:00	0.011	957:00	0.011
922:00	0.011	958:00	0.011
923:00	0.012	959:00	0.011
924:00	0.012	1000:00	0.0074
925:00	0.011	1001:00	0.0057
926:00	0.011	1002:00	0.0027
927:00	0.011	1003:00	0.0027
928:00	0.011	1004:00	0.0014
929:00	0.011	1005:00	0.00094
930:00	0.011	1006:00	0.00079
931:00	0.011	1007:00	0.00000
932:00	0.011		

Table 353.--North Avenue rainfall-runoff simulation Site 2, June 2, 1980  
 (Rainfall intensity is 2.0 inches per hour)

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1113:00	0.00000	1129:30	0.041
1115:25	0.00092	1130:00	0.041
1115:35	0.0015	1130:30	0.041
1115:40	0.0023	1131:00	0.041
1115:45	0.0032	1131:30	0.041
1115:50	0.0053	1132:00	0.041
1115:55	0.0065	1132:30	0.041
1116:00	0.0079	1133:00	0.041
1116:15	0.0094	1133:30	0.041
1116:30	0.014	1134:00	0.041
1117:00	0.018	1134:30	0.041
1117:30	0.022	1135:00	0.041
1118:00	0.025	1135:30	0.041
1118:30	0.027	1136:00	0.041
1119:00	0.030	1137:00	0.041
1119:30	0.032	1138:00	0.041
1120:00	0.032	1139:00	0.041
1120:30	0.035	1140:00	0.041
1121:00	0.035	1141:00	0.041
1121:30	0.038	1142:00	0.041
1122:00	0.038	1143:00	0.041
1122:30	0.038	1144:00	0.041
1123:00	0.038	1145:00	0.041
1123:30	0.038	1146:00	0.041
1124:00	0.039	1147:00	0.041
1124:30	0.041	1148:00	0.041
1125:00	0.041	1149:00	0.041
1125:30	0.041	1149:30	0.041
1126:00	0.041	1150:00	0.041
1126:30	0.041	1150:30	0.041
1127:00	0.041	1151:00	0.040
1127:30	0.041	1151:30	0.038
1128:00	0.041	1152:00	0.030
1128:30	0.041	1152:30	0.025
1129:00	0.041	1153:00	0.021

Table 353.--North Avenue rainfall-runoff simulation Site 2, June 2, 1980--  
Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1153:30	0.018	1158:00	0.0022
1154:00	0.014	1158:30	0.0020
1154:30	0.011	1159:00	0.0015
1155:00	0.0092	1159:30	0.0015
1155:15	0.0092	1200:00	0.0012
1155:30	0.0065	1200:30	0.0010
1156:00	0.0053	1201:00	0.0010
1156:30	0.0045	1201:30	0.0010
1157:00	0.0041	1202:00	0.00092
1157:30	0.0031	1203:00	0.00000

Table 354.--North Avenue rainfall-runoff simulation Site 3, June 3, 1980  
 (Rainfall intensity is 0.5 inches per hour)

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
905:00	0.00000	931:00	0.012
909:10	0.00045	932:00	0.012
909:35	0.00092	933:00	0.012
909:56	0.0012	934:00	0.012
910:10	0.0015	935:00	0.012
910:30	0.0023	936:00	0.012
911:00	0.0032	937:00	0.012
911:30	0.0055	938:00	0.012
912:00	0.0065	939:00	0.012
912:30	0.0079	940:00	0.012
913:00	0.0094	941:00	0.012
913:30	0.011	942:00	0.012
914:00	0.011	943:00	0.012
914:30	0.012	944:00	0.012
915:00	0.012	945:00	0.012
915:30	0.012	946:00	0.012
916:00	0.012	947:00	0.012
916:30	0.012	948:00	0.012
917:00	0.012	949:00	0.012
917:30	0.012	950:00	0.012
918:00	0.012	951:00	0.012
918:30	0.012	952:00	0.012
919:00	0.012	953:00	0.012
919:30	0.012	954:00	0.012
920:00	0.012	955:00	0.012
921:00	0.012	956:00	0.012
922:00	0.012	957:00	0.011
923:00	0.012	957:30	0.010
924:00	0.012	958:00	0.0089
925:00	0.012	958:30	0.0078
926:00	0.012	959:00	0.0064
927:00	0.012	959:30	0.0052
928:00	0.012	1000:00	0.0043
929:00	0.012	1000:30	0.0037
930:00	0.012	1001:00	0.0031



Table 354.--North Avenue rainfall-runoff simulation Site 3, June 3, 1980--  
Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1001:30	0.0026	1006:00	0.0010
1002:00	0.0022	1007:00	0.00092
1002:30	0.0021	1008:00	0.00092
1003:00	0.0010	1009:00	0.00066
1003:30	0.00092	1010:00	0.00066
1004:00	0.00092	1011:00	0.00066
1004:30	0.00092	1012:00	0.00045
1005:00	0.0012	1013:00	0.00000

Table 355.--North Avenue rainfall-runoff simulation Site 4, June 3, 1980  
 (Rainfall intensity is 2.0 inches per hour)

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1037:00	0.00000	1059:00	0.044
1038:45	0.00092	1100:00	0.044
1038:55	0.0032	1101:00	0.044
1039:05	0.0042	1102:00	0.044
1039:13	0.0053	1103:00	0.044
1039:30	0.0094	1104:00	0.044
1039:50	0.016	1105:00	0.044
1040:15	0.022	1106:00	0.044
1040:30	0.025	1107:00	0.044
1040:45	0.027	1108:00	0.044
1041:00	0.029	1109:00	0.044
1041:15	0.032	1110:00	0.044
1041:30	0.031	1111:00	0.044
1041:45	0.032	1112:00	0.044
1042:00	0.036	1113:00	0.044
1042:30	0.038	1114:00	0.039
1043:00	0.041	1115:00	0.032
1043:30	0.041	1116:00	0.022
1044:00	0.042	1117:00	0.015
1044:30	0.044	1117:30	0.012
1045:00	0.044	1118:00	0.0094
1046:00	0.044	1118:30	0.0079
1047:00	0.044	1119:00	0.0062
1048:00	0.044	1119:30	0.0052
1049:00	0.044	1120:00	0.0041
1050:00	0.044	1120:30	0.0037
1051:00	0.044	1121:00	0.0032
1052:00	0.044	1121:30	0.0027
1053:00	0.044	1122:00	0.0027
1054:00	0.044	1122:30	0.0023
1055:00	0.044	1123:00	0.0022
1056:00	0.044	1123:30	0.0015
1057:00	0.044	1124:00	0.00000
1058:00	0.044		

Table 356.--North Avenue rainfall-runoff simulation Site 5, June 4, 1980  
 (Rainfall intensity is 0.5 inches per hour)

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
911:00	0.00000	936:10	0.011
914:47	0.00013	937:00	0.0095
915:00	0.0015	937:30	0.0091
915:15	0.0023	938:00	0.0091
915:35	0.0025	938:30	0.0088
915:50	0.0042	939:00	0.0092
916:15	0.0053	939:30	0.0094
916:30	0.0053	940:00	0.0100
917:00	0.0079	940:30	0.010
917:30	0.0086	941:00	0.011
918:00	0.0097	941:30	0.011
918:30	0.011	942:00	0.011
919:00	0.012	942:30	0.013
919:30	0.012	943:00	0.013
920:00	0.012	944:00	0.013
920:30	0.013	945:00	0.014
921:00	0.014	946:00	0.014
921:30	0.014	947:00	0.014
922:00	0.014	948:00	0.014
922:30	0.014	949:00	0.014
923:00	0.014	950:00	0.014
923:30	0.014	951:00	0.014
924:00	0.014	952:00	0.014
925:00	0.014	953:00	0.014
926:00	0.014	954:00	0.011
927:00	0.014	955:00	0.0085
928:00	0.014	956:00	0.0054
929:00	0.014	957:00	0.0035
930:00	0.014	957:30	0.0031
931:00	0.014	958:00	0.0022
932:00	0.014	958:30	0.0011
933:00	0.014	959:00	0.00092
934:00	0.013	1001:00	0.00000
935:00	0.013		

Table 357.--North Avenue rainfall-runoff simulation Site 6, June 4, 1980  
 (Rainfall intensity is 2.0 inches per hour)

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1030:00	0.00000	1051:00	0.051
1032:15	0.0053	1052:00	0.051
1032:30	0.014	1053:00	0.051
1033:00	0.021	1054:00	0.051
1033:30	0.027	1055:00	0.053
1034:00	0.031	1056:00	0.051
1034:30	0.035	1056:30	0.051
1035:00	0.038	1057:00	0.053
1035:30	0.041	1058:00	0.051
1036:00	0.041	1059:00	0.051
1036:30	0.044	1059:50	0.051
1037:00	0.044	1100:00	0.051
1038:00	0.047	1101:00	0.053
1039:00	0.048	1102:00	0.051
1040:00	0.050	1103:00	0.047
1041:00	0.050	1104:00	0.038
1042:00	0.050	1105:00	0.029
1043:00	0.050	1106:00	0.021
1044:00	0.050	1107:00	0.016
1045:00	0.051	1108:00	0.011
1046:00	0.051	1109:00	0.0079
1047:00	0.053	1110:00	0.0051
1048:00	0.053	1111:00	0.0032
1049:00	0.051	1112:00	0.0015
1050:00	0.051	1113:00	0.00000

Table 358.--North Avenue rainfall-runoff simulation Site 7, June 5, 1980  
 (Rainfall intensity is 0.5 inches per hour)

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
834:00	0.00000	901:00	0.013
837:30	0.00092	902:00	0.013
840:00	0.0032	903:00	0.013
840:15	0.00092	904:00	0.013
840:30	0.00027	905:00	0.013
843:30	0.00045	906:00	0.012
845:30	0.0015	907:00	0.012
846:00	0.0023	908:00	0.012
846:30	0.0023	909:00	0.012
846:45	0.0030	910:00	0.012
847:00	0.0035	911:00	0.012
847:15	0.0042	912:00	0.012
847:30	0.0047	913:00	0.012
847:45	0.0053	914:00	0.012
848:00	0.0059	915:00	0.013
848:15	0.0065	916:00	0.013
848:30	0.0072	917:00	0.013
848:45	0.0079	918:00	0.012
849:00	0.0079	919:00	0.012
849:30	0.0094	920:00	0.012
850:00	0.0097	921:00	0.013
850:30	0.011	922:00	0.013
851:00	0.012	923:00	0.013
851:30	0.012	925:00	0.0094
852:00	0.013	926:00	0.012
852:30	0.013	927:00	0.012
853:00	0.013	928:00	0.012
853:30	0.013	929:00	0.012
854:00	0.013	930:00	0.012
855:00	0.013	931:00	0.012
856:00	0.013	932:00	0.012
857:00	0.013	933:00	0.013
858:00	0.013	934:00	0.013
859:00	0.013	935:00	0.013
900:00	0.013	936:00	0.013

Table 358.--North Avenue rainfall-runoff simulation Site 7, June 5, 1980--  
Continued

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
937:00	0.011	942:00	0.0015
938:00	0.0079	942:30	0.0013
939:00	0.0052	943:00	0.0010
939:30	0.0042	943:30	0.00092
940:00	0.0034	944:00	0.00081
940:30	0.0028	945:00	0.00066
941:00	0.0023	947:00	0.00000
941:30	0.0017		

Table 359.--North Avenue rainfall-runoff simulation Site 8, June 5, 1980  
 (Rainfall intensity is 2.0 inches per hour)

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1027:00	0.00000	1051:00	0.050
1028:40	0.00013	1052:00	0.050
1028:45	0.00013	1053:00	0.050
1028:53	0.0042	1054:00	0.050
1029:00	0.0065	1055:00	0.050
1029:10	0.0094	1056:00	0.050
1029:27	0.014	1057:00	0.050
1029:40	0.020	1058:00	0.050
1030:00	0.027	1059:00	0.050
1030:30	0.035	1100:00	0.050
1031:00	0.041	1101:00	0.050
1031:30	0.050	1102:00	0.044
1032:00	0.050	1103:00	0.032
1032:30	0.050	1104:00	0.018
1033:00	0.050	1104:30	0.016
1034:00	0.050	1105:00	0.013
1035:00	0.050	1105:30	0.0086
1036:00	0.050	1106:00	0.0065
1037:00	0.050	1106:30	0.0059
1038:00	0.050	1107:00	0.0047
1039:00	0.050	1107:30	0.0035
1040:00	0.050	1108:00	0.0031
1042:00	0.050	1108:30	0.0023
1043:00	0.050	1109:00	0.0022
1044:00	0.050	1109:15	0.0017
1045:00	0.050	1110:00	0.0016
1046:00	0.050	1110:30	0.0015
1047:00	0.050	1111:00	0.0014
1048:00	0.050	1111:30	0.0013
1049:00	0.050	1112:00	0.00000
1050:00	0.050		

Table 360.--North Avenue rainfall-runoff simulation Site 9, June 6, 1980  
 (Rainfall intensity is 0.5 inches per hour)

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
903:00	0.00000	939:00	0.011
907:50	0.0023	940:00	0.011
908:15	0.0037	941:00	0.011
908:30	0.0042	942:00	0.011
908:45	0.0047	943:00	0.011
909:00	0.0053	944:00	0.011
909:15	0.0072	945:00	0.011
909:30	0.0079	946:00	0.011
910:00	0.0094	947:00	0.011
911:00	0.011	948:00	0.011
912:00	0.011	949:00	0.011
913:00	0.011	950:00	0.011
914:00	0.011	951:00	0.011
915:00	0.011	952:00	0.011
916:00	0.011	953:00	0.011
917:00	0.011	954:00	0.011
918:00	0.011	955:00	0.011
919:00	0.011	956:00	0.011
920:00	0.011	957:00	0.011
921:00	0.011	958:00	0.011
922:00	0.011	959:00	0.011
923:00	0.011	1000:00	0.011
924:00	0.011	1001:00	0.011
925:00	0.011	1002:00	0.011
926:00	0.011	1003:00	0.0065
927:00	0.011	1004:00	0.0037
928:00	0.011	1005:00	0.0021
929:00	0.011	1005:30	0.0016
930:00	0.011	1006:00	0.0014
931:00	0.011	1006:30	0.00092
932:00	0.011	1007:00	0.00081
933:00	0.011	1007:30	0.00037
934:00	0.011	1008:00	0.00037
935:00	0.011	1008:30	0.00027
936:00	0.011	1009:00	0.00013
937:00	0.011	1009:30	0.00013
938:00	0.011	1014:00	0.00000



Table 361.--Rooney Gulch rainfall-runoff simulation Site 1, Run 1,  
 May 20, 1981  
 (Rainfall intensity is 2.1 inches per hour)

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1000:00	0.00000	1019:10	0.00073
1008:00	0.00000	1023:53	0.00077
1010:00	0.00016	1026:25	0.00079
1012:20	0.00025	1029:32	0.00080
1012:59	0.00059	1032:21	0.00098
1014:31	0.00070	1035:44	0.00040
1017:08	0.00071	1037:00	0.00000

Table 362.--Rooney Gulch rainfall-runoff simulation Site 1, Run 2,  
May 20, 1981  
(Rainfall intensity is 1.9 inches per hour)

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1205:00	0.00000	1233:07	0.0017
1208:05	0.00000	1233:51	0.0017
1209:00	0.00029	1234:38	0.0018
1209:56	0.00049	1235:25	0.0018
1210:19	0.00070	1236:25	0.0022
1211:06	0.00067	1236:57	0.0018
1211:28	0.00067	1237:33	0.0016
1211:52	0.00067	1238:07	0.0018
1212:40	0.00057	1238:53	0.0018
1213:00	0.00064	1239:40	0.0020
1215:25	0.00090	1240:18	0.0020
1216:44	0.00084	1240:39	0.0020
1218:16	0.00082	1241:06	0.0023
1219:21	0.00084	1241:43	0.0023
1220:27	0.00085	1242:13	0.0021
1221:54	0.00088	1242:44	0.0023
1223:20	0.00094	1243:15	0.0027
1224:42	0.0011	1243:44	0.0020
1225:53	0.0012	1244:06	0.0025
1226:58	0.0013	1244:27	0.0024
1227:43	0.0010	1244:49	0.0023
1228:31	0.0012	1245:20	0.0018
1229:17	0.0012	1246:08	0.0011
1230:01	0.0012	1247:25	0.00050
1230:56	0.0013	1248:50	0.00027
1231:58	0.0014	1249:20	0.00000
1232:38	0.0014		

Table 363.--Rooney Gulch rainfall-runoff simulation Site 2, Run 1,  
 May 20, 1981  
 (Rainfall intensity is 1.5 inches per hour)

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1355:00	0.00000	1426:47	0.00038
1407:40	0.00000	1428:24	0.00039
1411:07	0.00007	1429:00	0.00036
1414:30	0.00013	1429:46	0.00031
1416:10	0.00015	1431:14	0.00034
1418:46	0.00018	1431:49	0.00028
1421:53	0.00024	1433:14	0.00016
1424:52	0.00029	1434:31	0.00000
1426:00	0.00035		

Table 364.--Rooney Gulch rainfall-runoff simulation Site 2, Run 2,  
May 20, 1981  
(Rainfall intensity is 1.4 inches per hour)

Time	Discharge, in ft <sup>3</sup> /s	Time	Discharge, in ft <sup>3</sup> /s
1535:00	0.00000	1605:13	0.0012
1537:46	0.00000	1606:18	0.0013
1539:57	0.00011	1607:05	0.0014
1542:24	0.00022	1607:22	0.0014
1543:18	0.00026	1607:36	0.0015
1545:10	0.00033	1608:11	0.0016
1546:13	0.00039	1608:49	0.0017
1546:49	0.00042	1609:29	0.0018
1548:12	0.00056	1609:57	0.0019
1549:36	0.00059	1610:42	0.0018
1550:58	0.00061	1611:36	0.0019
1551:45	0.00064	1612:05	0.0017
1552:11	0.00066	1612:35	0.0020
1553:45	0.00072	1613:11	0.0020
1555:14	0.00066	1613:54	0.0015
1556:16	0.00069	1614:44	0.0015
1557:32	0.00076	1615:33	0.0014
1558:11	0.00079	1616:20	0.0014
1559:01	0.00083	1617:05	0.0013
1559:57	0.00081	1618:06	0.00087
1601:00	0.00080	1618:37	0.00068
1602:30	0.00085	1619:11	0.00047
1603:42	0.0011	1621:03	0.00016
1604:25	0.0011	1622:24	0.00000

## WATER-QUALITY DATA FOR NORTH AVENUE AND ROONEY GULCH RAINFALL SIMULATIONS

Water-quality data are presented for the following rainfall-simulation sites:  
North Avenue sites in table 365 and Rooney Gulch sites in table 366.

Definitions of abbreviations used in these tables are:

DEG.C=degrees Celsius  
mg/L=milligrams per liter  
ug/L=micrograms per liter  
UMHOS=micromhos per centimeter at 25° Celsius

Table 365.--Water-quality data for North Avenue  
rainfall simulation at Denver Federal Center, at Lakewood

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
JUN										
02...	0907	239	7.6	120	126	.82	.170	1.7	1.90	2.7
02...	0909	244	7.6	170	161	.72	.020	1.8	1.80	2.5
02...	0915	194	7.6	82	64	.67	.590	1.1	.71	2.4
02...	0930	166	7.6	43	36	.39	.460	.74	1.20	1.6
02...	0945	165	7.6	45	19	.37	.290	.81	1.10	1.5
02...	1002	169	7.7	56	48	.54	.190	.91	.23	1.6
02...	1115	410	7.2	200	173	.51	1.30	1.8	3.10	3.6
02...	1116	309	7.4	150	179	.52	1.30	2.2	3.50	4.0
02...	1119	246	7.4	100	148	.54	.700	1.5	.58	2.1
02...	1127	205	7.7	56	76	.26	.020	.98	1.00	1.3
02...	1137	196	7.6	35	14	.28	.130	.97	1.10	1.4
02...	1147	189	7.5	37	39	.27	.040	1.1	1.10	1.4
02...	1200	208	7.5	58	23	.23	.020	2.9	2.90	3.1
03...	0909	361	7.2	210	59	1.4	.630	3.8	4.40	5.8
03...	0911	330	7.4	230	232	1.3	.520	2.7	3.20	4.5
03...	0920	213	7.3	95	82	.66	.390	1.3	.32	2.3
03...	0935	181	7.4	59	71	.56	.280	1.3	.23	2.1
03...	0950	174	7.6	55	43	.53	.170	.86	1.50	1.5
03...	1003	192	7.6	46	13	.54	.150	.88	.12	1.5
03...	1039	396	7.4	260	446	1.2	.550	3.1	3.60	4.8
03...	1040	343	8.0	230	441	.73	.350	2.6	2.90	3.6
03...	1044	218	7.7	93	175	.52	.290	.96	.24	1.7
03...	1049	186	7.7	54	59	.47	.190	.75	.94	1.4
03...	1054	187	7.3	34	16	.44	.190	1.5	.16	2.1
03...	1100	18	7.9	25	20	.43	.190	.82	.16	1.4
03...	1107	175	7.7	26	8	.43	.180	.83	.15	1.4
03...	1121	228	7.6	60	10	.41	.080	1.1	.07	1.6
04...	0915	361	7.4	280	260	1.0	.300	2.5	2.80	3.8
04...	0917	335	7.3	230	214	.97	.350	2.2	2.50	3.5
04...	0923	232	7.6	140	232	.47	.260	1.0	1.30	1.8
04...	0941	203	7.6	38	31	.33	.200	2.2	2.40	2.7
04...	0952	192	7.8	41	51	.31	.170	1.1	1.30	1.6
04...	0959	206	7.7	43	19	.35	.220	.49	.71	1.1
04...	1032	323	7.4	280	260	.91	.780	2.1	2.90	3.8
04...	1034	227	7.5	160	393	.53	.610	1.9	2.50	3.0
04...	1039	191	7.7	62	41	.32	.280	.66	.94	1.3
04...	1044	190	7.7	30	45	.28	.230	.22	.45	.73
04...	1049	188	7.7	24	36	.28	.230	.30	.53	.81
04...	1054	186	7.6	38	66	.28	.250	.36	.61	.89

Table 365.--Water-quality data for North Avenue  
rainfall simulation at Denver Federal Center, at Lakewood--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, TOTAL (MG/L AS N03)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUN										
02...	12	.220	.010	1	14	7700	150	180	210	27
02...	11	.240	.050	1	15	6000	120	150	210	42
02...	6.1	.380	.240	8	20	2700	51	100	90	23
02...	7.0	.260	.220	0	1	1100	16	50	30	11
02...	6.5	.200	.170	0	1	920	16	50	30	9.2
02...	3.4	.140	.060	0	13	1400	30	70	50	12
02...	16	1.30	.700	1	18	5500	110	220	160	42
02...	18	1.20	.720	1	15	5000	110	160	130	41
02...	5.0	.400	.280	1	25	3800	100	140	110	29
02...	5.6	.100	.050	0	2	2200	66	90	100	12
02...	6.1	.160	.050	0	1	520	14	30	40	9.0
02...	6.1	.110	.070	0	1	400	11	30	30	8.9
02...	14	.220	.140	0	1	450	13	40	0	13
03...	26	.670	.510	1	34	3600	88	180	190	130
03...	20	.480	.210	1	33	7900	200	125	110	110
03...	4.3	.290	.120	1	19	3600	84	130	90	25
03...	3.5	.180	.080	1	14	2100	49	80	70	15
03...	9.0	.180	.060	1	11	1300	34	60	70	9.8
03...	2.9	.110	.060	0	9	430	16	50	40	13
03...	21	.530	.130	2	50	9800	510	340	380	110
03...	16	.690	.070	4	39	9300	440	320	280	68
03...	3.4	.230	.050	1	17	4200	96	150	110	19
03...	6.2	.010	.020	0	13	1400	49	70	60	11
03...	2.7	.050	.030	4	8	550	20	30	40	8.0
03...	2.6	.060	.030	1	8	3900	12	30	30	7.3
03...	2.6	.070	.050	0	7	390	22	30	40	8.6
03...	2.1	.170	.090	0	10	540	24	40	50	18
04...	17	.350	.040	2	35	7800	190	270	270	82
04...	15	.310	.040	1	29	6000	180	240	220	51
04...	7.8	.260	.030	1	18	4500	100	160	120	33
04...	12	.070	.040	0	7	900	20	60	40	9.8
04...	7.1	.110	.030	0	8	1800	33	70	50	9.4
04...	4.7	.070	.030	0	2	530	3	50	50	12
04...	17	.390	.040	2	40	6900	280	310	350	77
04...	13	.370	.040	1	14	8400	250	260	250	49
04...	5.6	.150	.030	1	13	2500	55	100	80	13
04...	3.2	.050	.010	0	8	810	23	40	70	8.4
04...	3.6	.040	.010	1	7	570	16	30	60	7.5
04...	3.9	.050	.030	0	8	1200	30	50	70	7.6

Table 365.--Water-quality data for North Avenue  
rainfall simulation at Denver Federal Center, at Lakewood--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
JUN										
04...	1056	201	7.6	83	426	.27	.200	.90	1.10	1.4
04...	1100	188	7.9	50	90	.29	.230	.64	.87	1.2
04...	1112	195	7.6	44	19	.27	.230	.37	.60	.87
05...	0844	353	7.2	320	382	1.5	.420	.04	.46	2.0
05...	0846	312	7.2	240	248	1.2	.250	3.0	3.20	4.4
05...	0849	261	7.3	200	354	.91	.200	2.9	3.10	4.0
05...	0853	202	7.6	110	249	.58	.190	2.2	2.40	3.0
05...	0910	190	7.6	27	68	.47	.160	2.2	2.40	2.9
05...	0927	183	7.6	21	--	.46	.140	--	--	--
05...	0943	203	7.6	37	72	.49	.090	2.6	2.70	3.2
05...	1029	336	7.8	400	516	1.6	.520	3.2	3.70	5.3
05...	1030	296	7.8	340	342	1.1	.420	3.5	3.90	5.0
05...	1032	226	7.6	180	472	.72	.230	2.1	2.30	3.0
05...	1037	193	7.5	100	258	.51	.110	2.6	2.70	3.2
05...	1044	181	7.7	35	98	.48	.130	2.5	2.60	3.1
05...	1051	175	7.7	27	149	.47	.110	1.8	1.90	2.4
05...	1058	186	7.7	19	59	.53	.120	.98	1.10	1.6
05...	1109	199	7.5	41	37	.50	.090	1.4	1.50	2.0
06...	0908	324	6.5	410	516	1.6	.140	4.3	4.40	6.0
06...	0910	256	6.8	270	452	1.2	.710	2.2	2.90	4.1
06...	0915	196	7.1	140	418	.67	.390	1.5	1.90	2.6
06...	0921	201	7.3	69	--	.56	.190	.73	.92	1.5
06...	0929	189	7.3	49	122	.53	.220	.74	.96	1.5
06...	0944	190	7.3	30	97	.50	.180	.72	.90	1.4
06...	0959	190	7.3	29	75	.49	.150	.67	.82	1.3
06...	1008	190	7.3	30	72	.50	.190	.59	.78	1.3

DATE	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE, TOTAL (MG/L AS P)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUN										
04...	6.1	.400	.010	0	11	9600	94	240	210	15
04...	5.1	.170	.030	1	13	3400	67	110	100	9.3
04...	3.9	.050	.010	1	8	410	13	40	70	11
05...	8.7	.470	.020	2	35	8900	230	370	270	140
05...	19	.270	.020	2	27	6200	180	240	180	80
05...	18	.350	.010	2	24	600	160	230	160	61
05...	13	.300	.010	1	19	4900	150	180	120	27
05...	13	.090	.010	1	8	1100	28	60	50	10
05...	--	.050	.010	1	8	960	23	50	40	11
05...	14	.100	.010	1	24	1400	35	70	60	12
05...	23	.600	.020	4	140	23000	710	920	760	110
05...	22	.760	.010	3	80	18000	420	560	400	110
05...	13	.490	.010	2	50	1500	350	440	320	40
05...	14	.270	.010	1	18	6400	150	190	120	14
05...	14	.120	.010	1	16	4600	80	140	100	9.5
05...	10	.160	.010	1	14	4100	83	130	100	7.6
05...	7.2	.080	.010	1	8	1200	22	50	50	8.0
05...	8.9	.050	.010	1	8	510	19	60	50	13
06...	27	.580	.080	2	90	16000	410	600	420	130
06...	18	.510	.060	2	44	15000	360	500	330	75
06...	11	.420	.080	1	27	9300	230	320	200	39
06...	6.6	.170	.070	1	24	3800	88	160	100	18
06...	6.6	.120	.080	1	10	2100	42	100	60	13
06...	6.2	.110	.020	1	10	1900	41	110	70	13
06...	5.8	.080	.020	1	8	1600	35	90	80	10
06...	5.7	.060	.020	1	8	830	21	70	60	10



Table 366.--Water-quality data for Rooney Gulch  
rainfall simulation at Rooney Ranch, near Morrison

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
MAY										
20...	1012	389	7.4	660	10100	.29	.220	24	24.0	24
20...	1015	375	7.4	920	8040	.28	.220	22	22.0	22
20...	1019	370	7.5	600	8640	.27	.210	17	17.0	17
20...	1026	368	7.6	560	8140	.26	.210	18	18.0	18
20...	1032	368	7.6	480	8700	.26	.190	15	15.0	15
20...	1036	367	7.6	460	7400	.26	.180	17	17.0	17
20...	1210	356	7.6	810	9240	.28	.270	20	20.0	20
20...	1211	375	7.6	620	6010	.25	.220	19	19.0	19
20...	1215	371	7.6	560	8680	.24	.200	18	18.0	18
20...	1222	363	7.6	530	6960	.23	.220	21	21.0	21
20...	1231	359	7.6	410	4670	.20	.220	13	13.0	13
20...	1244	361	7.6	340	8260	.17	.210	12	12.0	12
20...	1414	341	7.4	230	7960	.25	.190	11	11.0	11
20...	1422	353	7.5	260	4970	.23	.190	15	15.0	15
20...	1426	357	7.5	260	3210	.21	.200	8.0	8.20	8.4
20...	1429	356	7.5	300	5300	.22	.200	9.2	9.40	9.6
20...	1432	354	7.6	190	2350	.19	.180	11	11.0	11
20...	1542	362	7.6	310	4840	.23	.230	9.8	10.0	10
20...	1546	363	7.6	260	5160	.20	.220	8.4	8.60	8.8
20...	1552	356	7.6	220	3370	.17	.180	11	11.0	11
20...	1558	355	7.6	190	2060	.17	.190	11	11.0	11
20...	1607	351	7.6	150	1900	.16	.230	4.4	4.60	4.8
20...	1615	350	7.7	130	1710	.15	.230	2.7	2.90	3.1
20...	1619	349	7.6	63	745	.14	.210	1.9	2.10	2.2

DATE	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, (MG/L AS P)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
MAY										
20...	108	2.90	.580	2	200	120000	230	3000	590	54
20...	99	3.40	.690	2	180	120000	220	2700	570	31
20...	76	2.30	.630	1	170	100000	200	2400	480	51
20...	81	2.90	.590	1	170	100000	200	2500	470	28
20...	68	2.10	.520	2	180	96000	200	2400	490	42
20...	76	2.70	.620	1	160	97000	220	2300	480	--
20...	90	3.70	.580	2	230	150000	260	4000	690	63
20...	85	3.20	.530	2	220	120000	240	2800	590	--
20...	81	2.50	.540	2	190	100000	210	2700	540	67
20...	94	3.00	.560	1	170	100000	200	2100	470	100
20...	58	2.60	.460	1	140	83000	150	1700	390	61
20...	54	2.30	.520	1	120	65000	81	1600	310	92
20...	50	.840	.230	1	140	65000	79	1400	290	60
20...	67	.980	.330	1	150	82000	91	1900	360	66
20...	37	.670	.240	1	150	89000	150	1500	380	90
20...	43	.940	.270	1	150	90000	100	160	360	71
20...	50	.780	.240	1	140	74000	98	1100	310	33
20...	45	1.20	.260	1	170	88000	100	1800	400	75
20...	39	1.30	.290	1	140	80000	98	1700	340	38
20...	49	1.30	.210	1	120	62000	92	1300	280	20
20...	49	.950	.230	1	130	66000	92	1100	290	40
20...	21	.620	.240	1	110	50000	75	870	210	63
20...	14	.340	.330	0	58	35000	78	740	140	43
20...	9.9	.270	.080	0	32	21000	29	320	80	22

## METALS STUDY DATA FOR DENVER REGIONAL URBAN RUNOFF PROGRAM

Total metals versus dissolved metals data are presented for the following stations:

Station number and name		Table
06710225	Big Dry Creek tributary at Easter Street-----	367
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A definition of the abbreviation used in the above tables is;

ug/L=microgram per liter

Table 367.--Metals data for station 06710225  
Big Dry Creek tributary at Easter Street, near Littleton

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981												
DATE	TIME	CADMIUM			COPPER,			COPPER,			IRON,	
		TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	TOTAL RECOV- ERABLE (UG/L AS FE)	SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)		
MAR												
04...	1305	6	0	6	100	100	0	67000	67000			160
04...	1335	6	0	6	40	11	29	23000	23000			100
20-21	--	1	1	0	30	30	0	12000	12000			0
DATE	TIME	LEAD,			MANGA- NESE,			MANGA- NESE,			ZINC,	
		TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS MN)	SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS ZN)	SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)		
MAR												
04...	490	490	490	3	1900	1900	20	800	780			20
04...	380	380	380	3	710	700	10	320	310			10
20-21	190	190	190	0	300	280	20	220	200			20

Table 368.--Metals data for station 06710610  
Rooney Gulch at Rooney Ranch, near Morrison

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	CADMIUM				COPPER				IRON				IRON			
		CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)					
MAY																	
	1415	0	0	0	13	13	0	2900	2900	0	0	2900	2900	50			
	0815	<1	--	<1	8	--	<10	2500	2500	<10	<10	2500	2500	10			
	0915	<1	--	<1	7	--	<10	2400	2400	<10	<10	2400	2400	20			
	1045	0	--	0	9	--	<10	2900	2900	<10	<10	2900	--	<10			
	--	0	0	0	10	10	0	2600	2600	0	0	2600	2600	20			

DATE	LEAD,		MANGA-		MANGA-		MANGA-		ZINC,		ZINC,		ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDE RECOV- ERABLE (UG/L AS PB)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	LEAD, DIS- SOLVED (UG/L AS MN)	NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS ZN)							
MAY														
16...	98	96	2	110	70	40	150	100	50					
17...	13	10	3	790	320	470	40	30	10					
17...	4	3	1	440	140	300	20	10	10					
17...	8	6	2	400	140	260	120	100	20					
17-17	8	6	2	430	140	290	60	30	30					

Table 369.--Metals data for station 06711585  
Asbury Park Storm Drain at Denver

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	CADMIUM				COPPER,				IRON,				IRON,					
		TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)									
MAR																			
04....	1300	6	0	6	40	11	29	10000	10000	10000	40	10000	10000	40	10000	10000	40	10000	40
04....	1315	6	0	6	30	1	29	10000	10000	10000	30	10000	10000	30	10000	10000	30	10000	30
04....	1330	2	2	0	30	30	0	8000	8000	7900	70	8000	7900	70	8000	7900	70	8000	70
04....	1430	6	0	6	29	0	29	5600	5600	5600	30	5600	5600	30	5600	5600	30	5600	30
04....	1500	6	0	6	20	20	0	4700	4700	4700	30	4700	4700	30	4700	4700	30	4700	30
MAY																			
03....	2100	2	2	0	55	7	48	17000	17000	17000	40	17000	17000	40	17000	17000	40	17000	40
03....	2110	2	2	0	70	70	0	21000	21000	21000	40	21000	21000	40	21000	21000	40	21000	40
03-04	--	1	1	0	90	42	48	30000	30000	30000	60	30000	30000	60	30000	30000	60	30000	60

DATE	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)				MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)				MANGA- NESE, DIS- SOLVED (UG/L AS MN)				ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)				ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)				ZINC, DIS- SOLVED (UG/L AS ZN)			
	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)						
MAR																								
04...	540	540	2	300	210	90	290	200	200	90	290	200	290	200	200	90	290	200	90					
04...	480	480	4	350	300	50	270	250	250	50	270	250	270	250	250	20	270	250	20					
04...	460	460	2	250	190	60	230	200	190	60	230	200	230	200	200	30	230	200	30					
04...	330	330	2	160	120	40	160	130	120	40	160	130	160	130	130	30	160	130	30					
04...	310	310	2	130	80	50	140	110	80	50	140	110	140	110	110	30	140	110	30					
MAY																								
03...	470	450	16	420	400	20	360	340	400	20	360	340	360	340	340	20	360	340	20					
03...	560	550	14	520	500	20	410	400	500	20	410	400	410	400	400	10	410	400	10					
03-04	430	420	14	660	630	30	380	360	630	30	380	360	380	360	360	20	380	360	20					

Table 370.--Metals data for station 06711586  
Asbury Park Storm Drain at Asbury Avenue, at Denver

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	CADMIUM				COPPER				IRON			
		TOTAL (UG/L)	RECOV- ERABLE (UG/L)	SUS- PENDE D	CADMIUM DIS- SOLVED (UG/L)	TOTAL (UG/L)	RECOV- ERABLE (UG/L)	SUS- PENDE D	COPPER, DIS- SOLVED (UG/L)	TOTAL (UG/L)	RECOV- ERABLE (UG/L)	SUS- PENDE D	IRON, DIS- SOLVED (UG/L)
MAR	04...	6	0	0	6	40	40	0	0	13000	13000	13000	20
	04...	6	0	0	6	30	30	0	0	9400	9400	9400	50
	04...	6	0	0	6	30	1	29	0	8900	8900	8900	40
	04...	1	1	0	0	30	30	0	0	6800	6800	6800	50
	04-04	12	12	0	0	30	30	0	0	7700	7700	7700	40
MAY	--	0	0	0	0	120	120	0	0	52000	52000	52000	70

DATE	TIME	LEAD				MANGA- NESE				ZINC			
		TOTAL (UG/L)	RECOV- ERABLE (UG/L)	SUS- PENDE D	LEAD, DIS- SOLVED (UG/L)	TOTAL (UG/L)	RECOV- ERABLE (UG/L)	SUS- PENDE D	MANGA- NESE, DIS- SOLVED (UG/L)	TOTAL (UG/L)	RECOV- ERABLE (UG/L)	SUS- PENDE D	ZINC, DIS- SOLVED (UG/L)
MAR	04...	670	670	0	2	390	300	90	380	350	350	350	30
	04...	480	480	5	5	280	210	70	270	240	240	240	30
	04...	440	440	3	3	260	190	70	260	220	220	220	40
	04...	400	400	2	2	200	150	50	200	170	170	170	30
	04-04	440	440	4	4	240	180	60	230	190	190	190	40
MAY	--	670	670	1	1	1300	1300	40	700	690	690	690	10

Table 371.--Metals data for station 06711635 North  
Avenue Storm Drain at Denver Federal Center, at Lakewood

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	CADMIUM			COPPER,			IRON,		
		CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
FEB										
21...	0145	3	3	0	46	15	31	17000	17000	20
21...	0215	6	6	0	39	8	31	12000	12000	40
21...	0315	2	2	0	25	16	9	8000	8000	20
21...	1005	7	0	7	46	15	31	16000	16000	20
21...	1050	3	3	0	45	14	31	17000	17000	10
21...	1150	3	3	0	47	47	0	18000	18000	20
21...	1320	2	2	0	32	21	11	14000	14000	90
21-21	--	2	1	1	35	4	31	12000	12000	50
MAR										
03-03	--	6	0	6	50	21	29	17000	17000	80
04...	1035	2	2	0	40	40	0	12000	12000	50
04...	1105	6	0	6	70	13	57	21000	15000	5700
04...	1205	4	4	0	60	31	29	21000	21000	50
04...	1335	6	0	6	70	41	29	24000	24000	30
04...	1605	1	1	0	30	1	29	9400	9300	60
04...	1805	1	0	1	30	1	29	8400	8400	30
05-05	--	13	0	13	22	18	4	8800	8800	40

DATE	LEAD,			MANGA- NESE,			ZINC,		
	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
FEB									
21...	680	680	3	490	350	140	920	730	190
21...	530	520	8	380	270	110	640	470	170
21...	290	290	4	280	180	100	650	500	150
21...	610	610	0	530	360	170	750	520	230
21...	560	550	12	470	370	100	700	580	120
21...	670	660	9	470	390	80	650	530	120
21...	290	280	11	350	250	100	700	580	120
21-21	410	400	10	320	200	120	530	350	180
MAR									
03-03	450	450	5	440	350	90	720	580	140
04...	420	420	4	310	240	70	420	360	60
04...	770	760	6	580	500	80	730	670	60
04...	630	630	3	520	440	80	680	620	60
04...	680	680	3	590	540	50	650	610	40
04...	370	370	4	220	160	60	320	240	80
04...	180	180	2	190	130	60	240	150	90
05-05	200	200	3	200	150	50	250	200	50

Table 372.--Metals data for station 06711637 North  
Avenue Storm Drain at Denver Federal Center North Avenue, at Lakewood

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	CADMIUM				COPPER				IRON			
		CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)			
FEB 21-21	--	3	3	0	41	10	31	13000	13000	40			
MAR 03-03	--	3	3	0	70	41	29	23000	23000	80			
04...	1125	6	0	6	130	100	29	54000	54000	90			
04...	1230	5	5	0	20	20	0	33000	33000	40			
04...	1400	6	0	6	70	41	29	28000	28000	90			
04...	1605	6	0	6	90	33	57	15000	12000	3400			
04...	1700	6	0	6	30	1	29	11000	11000	10			
05-05	--	1	1	0	29	0	29	9300	9300	20			

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
FEB 21-21	490	480	13	360	250	110	630	470	160
MAR 03-03	580	580	4	550	490	60	810	740	70
04...	800	800	3	1200	1200	40	1300	1300	30
04...	190	190	4	850	810	40	880	860	20
04...	550	550	3	700	660	40	760	730	30
04...	400	390	6	360	60	300	710	20	690
04...	270	270	1	240	190	50	280	220	60
05-05	150	150	0	210	200	10	240	210	30



Table 373.--Metals data for station 06713010  
Cherry Knolls Storm Drain at Denver

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	CADMIUM				COPPER				IRON			
		CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDE D RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDE D RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	SUS- PENDE D RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)			
APR 03-03	--	1	1	0	11	11	0	2500	2400	60			
MAY 12-13	--	0	0	0	8	8	0	1100	1100	40			
17...	0530	<1	--	<1	4	--	<10	230	220	10			
17...	0640	1	--	<1	9	--	<10	1500	1500	40			
17...	0830	0	--	0	3	--	<10	1000	970	30			

DATE	TIME	LEAD				MANGA- NESE				ZINC			
		LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDE D RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	SUS- PENDE D RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	SUS- PENDE D RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)			
APR 03-03		110	110	4	80	50	30	100	50	50			
MAY 12-13		39	38	1	50	30	20	60	20	40			
17...		2	0	2	220	20	200	10	0	20			
17...		53	51	2	40	30	10	70	40	30			
17...		29	25	4	30	20	10	50	20	30			

Table 374.--Metals data for station 06720420  
Storm Drain at 116th Avenue and Claude Court, at Northglenn

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981																
DATE	TIME	CADMIUM				COPPER,				IRON,				IRON,		
		TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)						
MAR																
04....	1525	0	0	0	30	30	0	11000	11000	0						
04....	1540	1	1	0	40	40	0	14000	14000	40						
04....	1555	6	0	6	40	40	0	13000	13000	20						
APR																
03....	0910	1	1	0	12	12	0	3600	3600	40						
MAY																
03....	1950	4	4	0	110	110	0	36000	36000	100						
03....	1955	3	3	0	80	80	0	25000	25000	70						
17-18	--	0	0	0	9	9	0	1800	1800	40						
JUN																
03....	1450	0	0	0	70	20	50	44000	43000	730						
DATE		LEAD,				MANGA- NESE,				ZINC,				ZINC,		
		TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)						
MAR																
04....	300	300	300	1	240	230	10	170	170	0						
04....	390	390	390	1	300	290	10	200	190	10						
04....	320	320	320	2	290	290	0	170	170	0						
APR																
03....	120	120	120	1	80	70	10	80	70	10						
MAY																
03....	1500	1500	1500	26	730	720	10	870	850	20						
03....	1000	980	980	16	540	540	0	650	630	20						
17-18	63	46	46	17	50	40	10	60	50	10						
JUN																
03....	310	300	300	10	720	690	30	430	410	20						

Table 375.--Metals data for station 394236105042400  
Villa Italia Storm Drain at Lakewood

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981															
DATE	CADMIUM			CADMIUM			COPPER,			COPPER,			IRON,		
	TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDE D RECOV- ERABLE (UG/L AS CD)	IRON, SUS- PENDE D RECOV- ERABLE (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	TOTAL RECOV- ERABLE (UG/L AS CU)	PENDE D RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	TOTAL RECOV- ERABLE (UG/L AS FE)	PENDE D RECOV- ERABLE (UG/L AS FE)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS ZN)	PENDE D RECOV- ERABLE (UG/L AS ZN)	DIS- SOLVED (UG/L AS ZN)
MAR 20-20	1	1		29	0	0	29	29	0	6300	6300	40			
21-21	1	1		18	0	0	18	18	0	5100	5000	90			
DATE	LEAD,			LEAD,			MANGA- NESE,			MANGA- NESE,			ZINC,		
	TOTAL RECOV- ERABLE (UG/L AS PB)	SUS- PENDE D RECOV- ERABLE (UG/L AS PB)	IRON, SUS- PENDE D RECOV- ERABLE (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS MN)	DIS- SOLVED (UG/L AS MN)	DIS- SOLVED (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS MN)	PENDE D RECOV- ERABLE (UG/L AS MN)	DIS- SOLVED (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS ZN)	PENDE D RECOV- ERABLE (UG/L AS ZN)	DIS- SOLVED (UG/L AS ZN)	TOTAL RECOV- ERABLE (UG/L AS ZN)	PENDE D RECOV- ERABLE (UG/L AS ZN)	DIS- SOLVED (UG/L AS ZN)
MAR 20-20	320	320		240	3	3	240	140	100	290	190	100			
21-21	140	140		170	0	0	170	110	60	200	130	70			

ANALYTICAL DATA FROM  
THE U.S. GEOLOGICAL SURVEY'S DENVER ANALYTICAL LABORATORY  
AND THE METROPOLITAN DENVER SEWAGE DISPOSAL DISTRICT NO. 1 LABORATORY

Methods used for the determination of water-quality constituents and properties and detection limits applied by the U.S. Geological Survey at the Denver Central Laboratory are presented in table 376. Constituents, applicable ranges, and standard deviation equations for those constituents which show a relation between concentration and standard deviation are presented in table 377. Constituents, applicable ranges, and mean standard deviations for those constituents which show no relation between concentration and standard deviation are presented in table 378. At present, precision and accuracy data are available only for the constituents listed in tables 377 and 378. Methods, detection limits, and accuracy data for the Metropolitan Denver Sewage Disposal District No. 1 Laboratory are presented in table 379.

Definitions of abbreviations used in the tables are:

mg/L=milligrams per liter  
s=standard deviation  
ug/L=micrograms per liter  
x=sample concentration  
 $y=Z=0$  if  $X$  is less than 2.9  
 $y=Z=1$  if  $X$  is greater than 2.9

Table 376.--Methods and detection limits used for determination of water-quality constituents in the Denver Central Laboratory of the U.S. Geological Survey

[Phase: S=Suspended; D=Dissolved; T=total; ST=Suspended total;  
TR=Total recoverable. Analytical method or number: C=Calculation.  
NA=Not applicable. ND=Not determined]

Constituent or property	Phase	Extraction method	Analytical method or number	Detection limit
Solids residue at 105° Celsius (mg/L)---	S	NA	I-3765	1
5-day biochemical oxygen demand, carbonaceous (mg/L)-----	NA	NA	I-1579	ND
20-day biochemical oxygen demand, ultimate carbonaceous (mg/L)-----	NA	NA	I-1579	ND
Chemical oxygen demand (mg/L)-----	NA	NA	I-3561	1
Nitrogen (mg/L)-----	D	NA	C	NA
Nitrogen (mg/L)-----	T	NA	C	NA
Nitrate (mg/L)-----	D	NA	C	NA
Nitrate (mg/L)-----	T	NA	I-2540	.01
Nitrite (mg/L)-----	D	NA	I-2540	.01
Nitrite + nitrate (mg/L)-----	D	NA	I-2545	.1
Nitrite + nitrate (mg/L)-----	T	NA	I-4545	.1
Ammonia (mg/L)-----	D	NA	I-2523	.01
Ammonia (mg/L)-----	T	NA	I-4523	.01
Organic nitrogen (mg/L)-----	D	NA	C	NA
Organic nitrogen (mg/L)-----	T	NA	C	NA
Ammonia + organic nitrogen (mg/L)-----	D	NA	I-2552	.1
Ammonia + organic nitrogen (mg/L)-----	T	NA	I-4552	.1
Ammonia + organic nitrogen (mg/L)-----	ST	NA	C	NA
Phosphorus (mg/L)-----	D	NA	I-2600	.01
Phosphorus (mg/L)-----	T	NA	I-4600	.01
Orthophosphate (mg/L)-----	D	NA	I-2601	.01
Orthophosphate (mg/L)-----	T	NA	I-4601	.01
Cadmium (µg/L)-----	D	NA	I-1136	1
Copper (µg/L)-----	D	NA	I-1271	1
Iron (µg/L)-----	D	NA	I-1381	10
Lead (µg/L)-----	D	NA	I-1400	1
Manganese (µg/L)-----	D	NA	I-1454	10
Zinc (µg/L)-----	D	NA	I-1900	10
Cadmium (µg/L)-----	TR	I-3485	I-3136	1
Copper (µg/L)-----	TR	I-3485	I-3271	1
Iron (µg/L)-----	TR	I-3485	I-3381	1
Lead (µg/L)-----	TR	I-3485	I-3400	1
Manganese (µg/L)-----	TR	I-3485	I-3454	10
Zinc (µg/L)-----	TR	I-3485	I-3900	10
Organic carbon (mg/L)-----	D	NA	0-0002	ND
Organic carbon (mg/L)-----	T	NA	0-0001	ND

Table 377.--*Constituents, applicable ranges, and standard deviation equations for those constituents whose concentration is related to standard deviation*  
 [s=Standard deviation; X=Sample concentration; Y=Z=0 if  $X < 2.9$ ; Y=Z=1 if  $X > 2.9$ ]

Constituent	Applicable range	Descriptive equation
Dissolved solids (mg/L)-----	50 to 1,500	$s = 4.476 + 0.0092X$
Nitrate + nitrite as nitrogen, dissolved (mg/L)-----	0.5 to 4.6	$s = -0.0902 + 0.3512X - 0.3553(X + 2.9)Y + 1.2158Z$
Phosphorus (mg/L)-----	0.2 to 2.2	$s = 0.2425 - 0.4506X + 0.2212X^2$
Cadmium, total recoverable ( $\mu\text{g/L}$ )--	0 to 15	$s = -0.0128 + 0.1506X$
Copper, dissolved ( $\mu\text{g/L}$ )-----	10 to 500	$s = 0.9624 + 0.0906X$

Table 378.--*Constituents, applicable ranges, and mean standard deviation for those constituents whose concentration is not related to standard deviation*

Constituent	Applicable range	Mean standard deviation
Cadmium, dissolved ( $\mu\text{g/L}$ )-----	0 to 20 0 to 5	2.03 .70
Copper, total recoverable ( $\mu\text{g/L}$ )-----	50 to 290	21.4
Lead, dissolved ( $\mu\text{g/L}$ )-----	5 to 44	3.45
Lead, total recoverable ( $\mu\text{g/L}$ )-----	5 to 20	4.61
Manganese, dissolved ( $\mu\text{g/L}$ )-----	25 to 525	7.27
Manganese, total recoverable ( $\mu\text{g/L}$ )----	210 to 470	7.28
Nitrite as nitrogen, dissolved (mg/L)--	0.015 to 0.030	.005
Zinc, dissolved ( $\mu\text{g/L}$ )-----	0 to 525	9.79
Zinc, total recoverable ( $\mu\text{g/L}$ )-----	30 to 260	13.034

Table 379.--Methods for determination of water-quality constituents and properties and detection limits used in the Metropolitan Denver Sewage Disposal District No. 1 Laboratory

[Phase: T=total, D=Dissolved. NA=Not applicable]

Constituent or property	Phase	Extraction method	Analytical method or number	Detection limit	Percent of relative standard deviation
Solids residue, non-filterable (mg/L)-----	T	NA	<sup>1</sup> 208.0	2	3.9
5-day biochemical oxygen demand (mg/L)-----	NA	NA	<sup>2</sup> 405.1	2	6.1
Chemical oxygen demand, low level (mg/L)-----	NA	NA	Oceanography, ampoule matic	5	12.1
Chemical oxygen demand, high level (mg/L)-----	NA	NA	Oceanography, ampoule matic	25	2.1
Kjeldahl nitrogen (mg/L)-----	T	NA	<sup>2</sup> 359.1	.3	3.4
Ammonia (mg/L)-----	T	NA	<sup>2</sup> 350.1	.1	1.2
Nitrite (mg/L)-----	T	NA	<sup>2</sup> 359.2	.01	4.1
Nitrite + nitrate (mg/L)-----	T	NA	<sup>2</sup> 359.2	.01	4.1
Phosphorus (mg/L)-----	T	NA	<sup>3</sup> 93.70w	.02	2.1
Orthophosphate (mg/L)-----	T	NA	<sup>3</sup> 93.70w	.02	1.2
Cadmium (mg/L)-----	D	NA	<sup>2</sup> 213.1	.001	1.9
Copper (mg/L)-----	D	NA	<sup>2</sup> 220.1	.01	1.6
Iron (mg/L)-----	D	NA	<sup>2</sup> 236.1	.01	3.5
Lead (mg/L)-----	D	NA	<sup>2</sup> 239.1	.01	5.2
Manganese (mg/L)-----	D	NA	<sup>2</sup> 243.1	.01	3.2
Zinc (mg/L)-----	D	NA	<sup>2</sup> 289.1	.01	4.5
Cadmium (mg/L)-----	T	<sup>2</sup> 4.1.3	<sup>2</sup> 213.1	.001	6.8
Copper (mg/L)-----	T	<sup>2</sup> 4.1.3	<sup>2</sup> 220.1	.001	6.5
Iron (mg/L)-----	T	<sup>2</sup> 4.1.3	<sup>2</sup> 236.1	.01	9.7
Lead (mg/L)-----	T	<sup>2</sup> 4.1.3	<sup>2</sup> 239.1	.01	6.5
Manganese (mg/L)-----	T	<sup>2</sup> 4.1.3	<sup>2</sup> 243.1	.01	7.1
Sodium (mg/L)-----	T	NA	<sup>4</sup> Emission	10	2.7
Zinc (mg/L)-----	T	NA	<sup>2</sup> 289.1	.01	9.7
Organic carbon (mg/L)-----	T	NA	<sup>2</sup> 415.1	2.0	3.5

<sup>1</sup>Standard methods (1980).

<sup>2</sup>U.S. Environmental Protection Agency (1979).

<sup>3</sup>Technicon method.

<sup>4</sup>Instrumentation Laboratory Manual.

DATA FOR USE WITH U.S. GEOLOGICAL SURVEY'S  
DISTRBUTED ROUTING RAINFALL-RUNOFF MODEL, VERSION II

Data required to model various aspects of urban runoff in the study area using the U.S. Geological Survey's Distributed Routing Rainfall-Runoff Model, Version II (W. M. Alley and P. E. Smith, U.S. Geological Survey, written commun., 1980) were obtained from aerial photographs and topographic maps. Data on sub-catchment areas for Rooney Gulch at Rooney Ranch, near Morrison are presented in table 380. Modeling data for 1980 from the Denver Regional Urban Runoff Program, with the exception of Rooney Gulch at Rooney Ranch, near Morrison, were presented by Gibbs (1981).



Table 380.--Subcatchment data for station 06710610 Rooney Gulch at Rooney Ranch, near Morrison for use with U.S. Geological Survey's Distributed Routing Rainfall-Runoff Model, Version II

Sub-catchment No.	Drainage area (acres)	Drainage channel	Over-land flow length (feet)	Percent effective impervious area	Slope (feet/feet)	Manning n value	Thiessen coefficient		
							Rain gage 1	Rain gage 2	Rain gage 3
1	32.8	1	572	0	0.194	0.040	0	0	1.0
2	28.2	1	491	0	.204	.040	0	0	1.0
3	32.0	2	410	0	.126	.040	0	1.0	0
4	18.3	2	234	0	.193	.040	0	1.0	0
5	24.7	3	414	0	.067	.040	0	1.0	0
6	14.2	3	238	0	.180	.040	0	1.0	0
7	50.4	6	549	0	.234	.040	0	0	1.0
8	49.8	6	542	0	.114	.040	0	1.0	0
9	21.7	7	540	0	.051	.040	1.0	0	0
10	52.6	4	1,833	2.5	.302	.040	0	1.0	0
11	80.2	7	1,996	1.3	.341	.040	1.0	0	0

Channel segment	Channel for drainage	Length for channel (feet)	Slope (feet/feet)	Type <sup>1</sup>	Width of cross section at 1-foot depth (feet)	Manning n value
1	2	2,500	0.197	v	6.0	0.040
2	4	3,400	.079	v	6.0	.040
3	6	2,600	.122	v	35.7	.040
4	5	1,250	.044	v	16.5	.040
5	7	450	.022	v	14.4	.040
6	7	4,000	.123	v	23.7	.040
7	---	1,750	.025	v	14.4	.040

<sup>1</sup>v=V shaped.

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