PROCESSED FLOW DATA

2000

The 2000 flow data reported herein by the Conservation Verification Consultants (CVC) have been collected in support of conservation verification activities for the Imperial Irrigation District/Metropolitan Water District of Southern California (IID/MWD) Water Conservation Agreement Projects. In December 1995, data processing procedures developed by the CVC were institutionalized and incorporated into the IID's Water Information System (WIS).

Water Information System

IID's Water Information System (WIS) incorporates quality control operations and a data storage warehouse function for site-specific, quality controlled, time-series data related to the flow of water through the IID irrigation and drainage system. WIS also provides an audit trail of data elements as they flow through the quality control operation. Since January 1, 1996, conservation verification data have been processed and stored using WIS applications and capabilities.

To obtain pre-project data, Stevens recorder charts for selected sites were digitized by Keller-Bliesner (kb) and processed by IID staff. Murray, Burns and Kienlen, Consulting Civil Engineers (mbk, now MBK Engineers) digitized and processed additional Stevens recorder charts (see *Processed Flow Data 1999* for Stevens chart digitizing and processing procedure).

Raw conservation verification Supervisory Control and Data Acquisition System (SCADA) data are transmitted at 15-minute intervals to the Water Control Center (WCC) where they are stored in ASCII text files on the WCC Server. Raw Easylogger (Logger) data are retrieved from verification sites weekly. A preliminary quality control procedure is performed before Logger data are moved two times a month to the WCC Server. Each day, WIS accesses raw data on the WCC Server, and an ORACLE PL/SQOL program designed to carry out data quality control procedures is run. Due to differences in data format, unique programs - called *DATAQC* and *EASYLGQC* - are used on SCADA and Easylogger data, respectively. *DATAQC* applies extensive quality control checks to raw 15-minute SCADA data and computes a processed 15-minute record of flow values including estimates for up to four consecutive missing records. *EASYLGQC* applies comparable quality control checks to preprocessed hourly Easylogger data and computes a processed hourly record of flow values with no estimates.

At the first of each month, IID staff plot, review, and complete manual quality control operations on SCADA flow data for the previous month. Before the tenth of the month, a WIS procedure called *DAILY* is run. *DAILY* computes hourly flows and daily volumes from the processed 15-minute SCADA record. Each month, manual quality control operations are completed on Logger flow data for the previous month. Around the 7th of the month for Direct-to-Sea sites and the 15th for Lateral Spill sites, a WIS procedure called *EZ_DAILY* is run to compute daily volumes from the processed hourly Logger record. When computing daily volumes, *DAILY* makes flow volume estimates for periods of missing record; likewise, *EZ_DAILY* estimates volume for periods of missing Logger record. Processed 15-minute, hourly and daily data are warehoused in WIS. Programs used in WIS were checked and found to be consistent with CVC-developed FORTRAN programs, DATAQC(mbk) and DAILY(mbk) used to process data reported in *Processed Flow Data 1993-94* and *Processed Flow Data 1995.*

Drop-Leaf Gate (DLG) Operation

Drop-leaf gates (DLGs), which are used to control and measure flow, can be operated in manual or automatic mode. In manual mode, the gate is set at a given level where it remains until a person adjusts it. Since this procedure mimics what happened when grade boards (BOARDS) were used to control flow, it was the setting used to collect pre-project data from DLG sites.

In automatic mode, a pond level is set and when the water level moves from that level, the gate automatically adjusts itself to maintain the level. This feature of a DLG allows the operator to rely on the gate to hold a pond, and the need to adjust the gate for varying flows is eliminated. Drop-leaf gates are typically set to automatic once pre-project data collection is complete. However, in some operating conditions the drop-leaf gates were never set on automatic. In other operating conditions, the operating mode may be changed from time to time.

Grade Board Structures

Since October 27 or 28, 1998, for Logger sites and since January 1, 1999, for SCADA sites, a discharge-flow relationship developed by mbk has been used to calculate flow at grade board (BOARD) sites. Prior to these dates, flow over grade boards was calculated using a sharp-crested weir equation, which was found to over-calculate flow at low water levels.

The rationale for and impact of the more accurate mbk-developed discharge-flow relationship are described in *Development of Head Dependent Weir Coefficient for Computation of Flow over Grade Board Weirs,* CVC, March 1999. The revised flow-calculation relationship was used to reprocess grade board (BOARD) data from prior years for sites included in the CVC analysis of canal and lateral spillage. The electronic version of these data is available on the *IID/MWD Unpublished Reprocessed Flow Data CD_ROM,* CVC, Sept. 2000. A copy of the CD_ROM is provided in the back cover pocket of this report.

Reporting

A listing of the contents, tables, maps contained in the report begin on page i. An alphabetic listing of all sites with corresponding page numbers for the daily flow data table and the plot of monthly flow volume in acre-feet begins on page iv. This report starts with a brief discussion of pertinent background information and terminology. Also provided is a graphical depiction of the period of available record for all sites. The main body consists of notes, maps, and WIS-generated daily, monthly, calendar year and water year tables, monthly plots, and maps are presented for all projects. The report is organized into sections, as follows:

Section 1	Background and Terminology
Section 2	Publication History and Period of Record
Section 3	Measurement Site Summary Details
Section 4	Project 1: Carter Reservoir Project
Section 5	Project 3: Plum-Oasis Lateral Interceptor Project
Section 6	Project 4: Galleano Reservoir Project
Section 7	Project 8: Trifolium Lateral Interceptor Project
Section 8	Project 9: 12-Hour Delivery Project
Section 9	Project 15: System Automation Project
Section 10	Project 17: Mulberry-D Lateral Interceptor Project
Section 11	Project 19: Systemwide Monitoring Program
Section 12	Errata: Processed Flow Data 2000

Project locations, except sites associated with Projects 15, and 19, are shown on the IID/MWD Water Conservation Project 2000 map on page 11. Detailed maps for each project are provided in Sections 4 through 11.

Section 2, Publication History and Period of Record, contains Tables 1 through 5. Table 1 provides a listing *of IID/MWD Processed Flow Data* reports and CD_ROMs. Tables 2 through 4 provide graphical depictions of published processed flow data. Table 5 provides a graphical depiction of unpublished processed flow data available on CD_ROM. Section 2 table titles are as follows:

Table 1	IID/MWD Processed Flow Data Reports
Table 2	IID/MWD Processed Daily Flow Period of Record (1993-1996) (1997-2000)
Table 3	IID/MWD Systemwide Monitoring Processed Daily Flow Period of Record (1993-1996) (1997-2000)
Table 4	IID/MWD Digitized Stevens Chart Processed Daily Flow Period of Record (Pre-1996)
Table 5	IID/MWD Unpublished Reprocessed Flow CD_ROM, CVC, Sept. 2000 Period of Record (1982-1998)

Section 3, Measurement Site Summary Details, consists of Tables 6 through 9. Table 6 provides information for all sites having published data in this volume, except sites associated only with Project 19: Systemwide Monitoring (SWM). Table 7 provides information on Systemwide monitoring sites having published data in this volume. Starting with *Processed Flow Data 1999,* record for any SWM site associated with another IID/MWD project is provided under both projects. Table 8 has information on sites with record on the *IID/MWD Unpublished Reprocessed Flow Data CD_ROM.* Table 9 has information for discontinued sites. Section 3 table titles are as follows:

Table 6	IID/MWD Digitized and Processed Flow Data Measurement Site Summary Table
Table 7	IID/MWD Systemwide Monitoring Processed Flow Data Measurement Site Summary Table
Table 8	IID/MWD Unpublished Reprocessed Flow Data CD_ROM, CVC, Sept. 2000 Measurement Site Summary Table
Table 9	IID/MWD DISCONTINUED Processed Flow Data Measurement Site Summary Table

Sections 4 through 11 contain 2000 data for each project, as follows:

- Project notes
- Measurement site location map
- Summary tables of mean monthly flows in cubic feet per second for each measurement site for calendar year and water year 2000
- Summary tables of monthly flow volumes in acre feet for each measurement site for calendar year and water year 2000
- Plots of monthly flow volumes in acre feet for calendar year 2000 for each measurement site
- Annual tables of daily flow record for each measurement site

Section 9 also contains Table 10, a list of water control sites at which system automation was modernized or added under the IID/MWD Project 15. Section 11 contains Table 11, which provides a list of sites included in the IID/MWD Project 19 Systemwide Monitoring Program. The two table titles are as follows:

Table 10	IID/MWD System Automation Site List
Table 11	IID/MWD Systemwide Monitoring Site List

Section 12 contains Table 12, Errata for *IID/MWD Processed Flow Data 1999* that are available in this *Processed Flow Data 2000* and the corresponding errata pages as revised. Section 12 table title is as follows:

Table 12	Errata in IID/MWD *Processed Flow Data 2000*

This 2000 report has been compiled by IID Technical Resources and Planning Unit (IID:TRPU) staff under the direction of the CVC.

SITE NAME CONVENTIONS

The following site name conventions are used in naming IID/MWD project sites and the *Processed Flow Data* reports.

Site Name: Common Name for Site, e.g., Mulberry Lateral Heading BCW
Site Naming Convention: Water body (canal, lateral, drain, or reservoir name)
Function (heading, interface, discharge, spill, or drain)
Structure Abbreviation (IG, SCW, or BCW)

Heading: Flow into a water body near its "head"
Interface: Flow into an interceptor or from one water body into another water body for downstream use
Discharge: Flow out of the end of a water body into another for downstream use
Spill: Flow out of a water body, usually near its "tail," to the Salton Sea, directly or by way of a drain; excluding flow from rainfall events at East Highline Canal Spill to Z Spill and Westside Main Canal Spill to Trifolium Storm Drain
Drain: Flow in a drain

Site I.D.: 13-Character Alphanumeric Site Identifier
Site I.D. Naming Convention: Char 1 through 13

Char 1- 2: Project Number

01	Carter Reservoir	15	System Automation
03	Plum-Oasis Interceptor	17	Mulberry-D Interceptor
04	Galleano Reservoir	19	Systemwide Monitoring (SWM)
08	Trifolium Interceptor	98	SWM (IID Lateral Spill) Logger site
09	12-Hour Delivery	99	SWM (IID Direct-to-Sea) Logger site

Char 3 - 8: IID abbreviation for the water body being measured.

Char 9 – 12: Nearest upstream reference point; e.g., delivery, check, drop, or interface gate.

Char 13: Site Type

C	Check	R	Reservoir (includes Discharge sites)
D	Drain	S	Spill (includes Discharge sites)
H	Heading	W	Weir
I	Interface Gate		

ABBREVIATIONS, ACRONYMS AND SYMBOLS

IID Divisions & Departments

HOLT	Holtville Division
NEND	Northend Division
SW	Southwest Division
WRU	Water Resources Unit
WCC	Water Control Center

IID Reservoirs

BEVRES	Bevins Reservoir (Plum-Oasis Lateral Interceptor Project)
CARRES	Carter Reservoir
GALRES	Galleano Reservoir
MDRES	Young Reservoir (Mulberry-D Lateral Interceptor Project)
RUSRES	Russell Reservoir (Mulberry-D Lateral Interceptor Project)
SINRES	Singh Reservoir (12-Hour Delivery Project)
TRIRES	Willey Reservoir (Trifolium Lateral Interceptor Project)

Flow Measurement Devices & Structures

Pipe/AVM	Acoustic Velocity Meter
Boards	Grade Boards
BCW	Broad-Crested Weir
DLG	Drop-Leaf Gate
IG	Interface Gate
SCW	Sharp-Crested Weir

Computer & Communication Terms

Char	Character
daily	PL/SQL program which calculates daily flow from processed 15-minute SCADA record, including estimates
DAILY(mbk)	FORTRAN program which calculates daily flow from processed 15-minute SCADA record, including estimates
dataqc	PL/SQL program for SCADA data quality control
DATAQC(mbk)	FORTRAN program for SCADA data quality control
dBASE	Relational database, applications and programming language
easylgqc	PL/SQL program for Logger data quality control
ez_daily	PL/SQL program which calculate daily flow from processed hourly Logger record, including estimates
GIS	Geographic Information System
ORACLE	Relational database
PL/SQL	Programming (Procedure) Language/Structured Query Language
SCADA	Supervisory Control and Data Acquisition System
WIS	Water Information System

ABBREVIATIONS, ACRONYMS AND SYMBOLS, cont.

Data Recording Methods

Easylogger (Logger)	Electronic data logger
PLC	Programmable Logic Controller
RTU	Remote Terminal Unit
Stevens	Stevens analog recorder

Others

ac-ft	Acre-feet
cfs	Cubic feet per second
CVC	Conservation Verification Consultants: Jack Keller, Ph.D., PE Grant G. Davids, PE Joseph I. Burns, ENG, PE
d/s	Downstream
h	In Site Ref. No. indicates digitized Stevens recorder chart data processed using hydrographer's notes found on the charts
IID	Imperial Irrigation District
KB	Keller-Bliesner Engineering
DE	Davids Engineering, Inc.
mbk	Murray, Burns & Kienlen, Consulting Civil Engineers (MBK Engineers)
MWD	Metropolitan Water District of Southern California
SWM	Systemwide Monitoring

Annual Table of Daily Flow Records – Footnotes

100% of daily volume estimated

e	Volume (100%) estimated from the average flow of the records preceding and following the gap equal in number to the missing records in the gap (SCADA).
c	Volume (100%) estimated from the average flow of the records preceding the gap equal in number to twice the missing records in the gap (Logger).
v	Volume (100%) estimated based on volume balance (calculated)
a	Daily volume (100%) was estimated using the average volume for that month in all years during which the site was under a similar operating regime, divided by the number of days in that month, rounded to one decimal.
b	Daily volume (100%) was estimated using the average volume for that month in the preceding year and following year, divided by the number of days in that month, rounded to one decimal
#	Daily volume was estimated by prorating partial hourly volume for that day to the full day.

50% or more of daily volumes estimated

*	Volume (50% or more) estimated from the average flow of the records preceding and following the gap equal in number to the missing records in the gap (SCADA).
&	Volume (50% or more) estimated from the average flow of the records preceding the gap equal in number to twice the missing records in the gap (Logger).

Rain event (Westside Main Canal Spill to Trifolium Storm Drain and East Highline Canal Spill to Z Spill)

r	Volume (100%) resulted from a rainfall event.
s	Volume (100%) for a rainfall event estimated from the average flow of the records preceding and following the gap equal in number to the missing records in the gap (SCADA).

WIS Data Available

Easylogger Site Name Everything starting 01/01/96 was always a logger. All else was Stevens Recorder data and is hydrographer daily values.	Rep Name	Site Code	From Date	To Date
AAC Drain 1 Drop 3	101	98AAC1AACD3_D	01/01/1996	**11/30/2000**
Alamo River Drop 9	166	98AR____D9_W	01/01/1996	**03/31/2001**
Ash Lateral 30 Spill	102	98ASH30_212_S	01/01/1996	**03/31/2001**
Ash Lateral 45 Spill	170	98ASH45_191AS	01/01/1988	**03/31/2001**
Ash Lateral 6 Spill	171	98ASH6__045BS	01/01/1988	**03/31/2001**
Central Drain Drop 2	158	98CD___CDD2_D	01/01/1996	**03/31/2001**
Daffodil Canal Spill (Logger)	172	98DAF___020_S	01/01/1988	**08/07/1996**
Dahlia Lateral Spill	105	98DAH___080_S	01/01/1996	**03/31/2001**
Dogwood Lateral 10	173	98DOG10_085AS	01/01/1988	**03/31/2001**
Dogwood Lateral 6	184	98DOG6__070_S	12/29/1999	**12/31/2000**
E Lateral Spill	130	98E_____052_S	01/01/1988	**03/31/2001**
East Highline Lateral 10 Spill	174	98L10___260_S	01/01/1988	**03/31/2001**
East Highline Lateral 14 Spill	175	98L14___309_S	01/01/1988	**03/31/2001**
Elder Canal Spill	ELDCA	19ELD___129_S	01/01/1982	**12/31/1996**
Elder Lateral 13 Spill	EL13S	19ELD13_099_S	07/01/1985	**12/31/1996**
Elm Canal Spill	ELMSA	19ELM___054_S	01/04/1982	**12/31/1996**
Elmore Lake	129	99EMRLK_SFW_S	01/01/1996	04/30/2001
Eucalyptus Lateral 10 Spill	108	98EUC10_102_S	01/01/1988	**03/31/2001**
Eucalyptus Lateral Spill	107	98EUC___155_S	01/01/1996	**03/31/2001**
Fig Drain	164	98FIG__NEWR_D	01/01/1996	**03/31/2001**
Fillaree Canal Spill	104	19FIL___030_S	01/01/1983	**10/04/1999**
Greeson Drain	162	98GRE__NEWR_D	01/01/1996	**03/31/2001**
Holt Lateral Spill	178	98HOL___128_S	01/01/1988	**03/31/2001**
Holtville Main Drain	160	98HOL____AR_D	01/01/1996	**03/31/2001**
Malva Lateral 1 Spill	994	17ML1___005_S	01/01/1988	**05/10/1993**
Marigold Lateral Spill at Delivery 24	MG24A	17MAR___024_S	01/01/1988	**03/28/1993**
Moorhead Lateral Spill	179	98MH____210_S	01/01/1988	**03/31/2001**
Moss Lateral Spill	180	98MOS___026_S	01/01/1988	**03/31/2001**
Munyon Lateral Spill	112	19MUN___029_S	02/24/1985	**09/14/1998**
Myrtle Lateral Heading BCW	MYRH	19MYR___EHL_H	12/13/1991	**05/25/1999**
Myrtle Lateral Spill	111	19MYR___028_S	02/14/1985	**09/14/1998**

WIS Data Available

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Nectarine Lat Spill to Vail Supply Canal	185	97NEC___007_S	02/17/2000	**03/31/2001**
Niland Drain 1	144	99ND1___DTS_D	01/01/1996	04/30/2001
Niland Drain 2	145	99ND2___DTS_D	01/01/1996	04/30/2001
Niland Drain 3	146	99ND3___DTS_D	01/01/1996	04/30/2001
Niland Drain 4	147	99ND4___DTS_D	01/01/1996	04/30/2001
Niland Drain 5	148	99ND5___DTS_D	01/01/1996	04/30/2001
Niland Lateral 2 Spill	999		01/01/1988	**12/31/1990**
O Drain	131	99O_____DTS_D	01/01/1996	04/30/2001
Oakley Lateral Spill	116	98OKY___100_S	01/01/1988	**03/31/2001**
Oasis Lateral Spill	OASSA	03OAS___034_S	01/01/1988	**08/16/1992**
Olive Lateral Spill	110	19OLI___029_S	01/05/1983	**09/14/1998**
Orchid Lateral Spill	109	19ORC___044_S	01/05/1983	**12/03/2000**
P Drain	133	99P_____DTS_D	01/01/1996	04/30/2001
P Lateral Spill	132	99P_____031_S	01/01/1996	04/30/2001
Pomelo 2 Spill at Delivery 39	PO39A	03POM___039_S	01/01/1988	**10/18/1992**
Q Drain	135	99Q_____DTS_D	01/01/1996	04/30/2001
Q Lateral Spill	134	99Q_____028_S	01/01/1996	04/30/2001
R Drain	137	99R_____DTS_D	01/01/1996	04/30/2001
R Lateral Spill	136	19R_____024_S	01/01/1982	04/30/2001
Redwood Canal Spill	REDSA	03RED___096_S	01/01/1982	**12/14/1994**
Rice 3 Drain	165	98RIC3_NEWR_D	01/01/1996	**03/31/2001**
Rice Drain	163	98RIC__NEWR_D	01/01/1996	**03/31/2001**
Rockwood Weir	113	98RW___CM16_W	01/01/1996	**03/31/2001**
Rose Drain Outlet	156	98ROS____AR_D	01/01/1996	**03/31/2001**
Rose Lateral Spill - Both Bays	103	98ROS___083_S	01/01/1982	**12/31/1995**
Rose Lateral Spill - Left Bay	167	98ROS___083yS	09/11/1996	**03/31/2001**
Rose Lateral Spill - Right Bay	168	98ROS___083zS	09/11/1996	**03/31/2001**
S Drain	139	99S DTS D	01/01/1996	04/30/2001

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Ash Lateral 6 Spill	171	98ASH6__045BS	01/01/1988	**03/31/2001**
Central Drain Drop 2	158	98CD___CDD2_D	01/01/1996	**03/31/2001**
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East Highline Lateral 14 Spill	175	98L14___309_S	01/01/1988	**03/31/2001**
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Elm Canal Spill	ELMSA	19ELM___054_S	01/04/1982	**12/31/1996**
Elmore Lake	129	99EMRLK_SFW_S	01/01/1996	04/30/2001
Eucalyptus Lateral 10 Spill	108	98EUC10_102_S	01/01/1988	**03/31/2001**
Eucalyptus Lateral Spill	107	98EUC___155_S	01/01/1996	**03/31/2001**
Fig Drain	164	98FIG__NEWR_D	01/01/1996	**03/31/2001**
Fillaree Canal Spill	104	19FIL___030_S	01/01/1983	**10/04/1999**
Greeson Drain	162	98GRE__NEWR_D	01/01/1996	**03/31/2001**
Holt Lateral Spill	178	98HOL___128_S	01/01/1988	**03/31/2001**
Holtville Main Drain	160	98HOL____AR_D	01/01/1996	**03/31/2001**
Malva Lateral 1 Spill	994	17ML1___005_S	01/01/1988	**05/10/1993**
Marigold Lateral Spill at Delivery 24	MG24A	17MAR___024_S	01/01/1988	**03/28/1993**
Moorhead Lateral Spill	179	98MH____210_S	01/01/1988	**03/31/2001**
Moss Lateral Spill	180	98MOS___026_S	01/01/1988	**03/31/2001**
Munyon Lateral Spill	112	19MUN___029_S	02/24/1985	**09/14/1998**
Myrtle Lateral Heading BCW	MYRH	19MYR___EHL_H	12/13/1991	**05/25/1999**
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Niland Drain 2	145	99ND2___DTS_D	01/01/1996	04/30/2001
Niland Drain 3	146	99ND3___DTS_D	01/01/1996	04/30/2001
Niland Drain 4	147	99ND4___DTS_D	01/01/1996	04/30/2001
Niland Drain 5	148	99ND5___DTS_D	01/01/1996	04/30/2001
Niland Lateral 2 Spill	999		01/01/1988	**12/31/1990**
O Drain	131	99O_____DTS_D	01/01/1996	04/30/2001
Oakley Lateral Spill	116	98OKY___100_S	01/01/1988	**03/31/2001**
Oasis Lateral Spill	OASSA	03OAS___034_S	01/01/1988	**08/16/1992**
Olive Lateral Spill	110	19OLI___029_S	01/05/1983	**09/14/1998**
Orchid Lateral Spill	109	19ORC___044_S	01/05/1983	**12/03/2000**
P Drain	133	99P_____DTS_D	01/01/1996	04/30/2001
P Lateral Spill	132	99P_____031_S	01/01/1996	04/30/2001
Pomelo 2 Spill at Delivery 39	PO39A	03POM___039_S	01/01/1988	**10/18/1992**
Q Drain	135	99Q_____DTS_D	01/01/1996	04/30/2001
Q Lateral Spill	134	99Q_____028_S	01/01/1996	04/30/2001
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Rice Drain	163	98RIC__NEWR_D	01/01/1996	**03/31/2001**
Rockwood Weir	113	98RW___CM16_W	01/01/1996	**03/31/2001**
Rose Drain Outlet	156	98ROS____AR_D	01/01/1996	**03/31/2001**
Rose Lateral Spill - Both Bays	103	98ROS___083_S	01/01/1982	**12/31/1995**
Rose Lateral Spill - Left Bay	167	98ROS___083yS	09/11/1996	**03/31/2001**
Rose Lateral Spill - Right Bay	168	98ROS___083zS	09/11/1996	**03/31/2001**
S Drain	139	99S_____DTS_D	01/01/1996	04/30/2001
S Lateral Spill	138	98S_____022_S	07/01/1985	**03/31/2001**
South Alamo Automatic Spill	181	98SOA___043_S	01/01/1996	**03/31/2001**
South Alamo Spill	182	98SOA___119_S	01/01/1996	**03/31/2001**

WIS Data Available

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South Central Drain Outlet	157	98SOC____AR_D	01/01/1996	**03/31/2001**
Spruce Lateral 3 Spill	119	98SP3___076_S	01/01/1988	**03/31/2001**
Stanley Lateral 1 Spill	115	98STL1__076_S	01/01/1988	**03/31/2001**
Sumac Lateral 1 Spill	117	98SUM1__027_S	01/01/1988	**03/31/2001**
T Drain	140	99T_____DTS_D	01/01/1996	04/30/2001
Trifolium 1 Drain	125	99T1____DTS_D	01/01/1996	04/30/2001
Trifolium 10 Drain	122	99T10__NEWR_D	01/01/1996	04/30/2001
Trifolium 11 Drain	123	99T11__NEWR_D	01/01/1996	04/30/2001
Trifolium 20 Drain	126	99T20___DTS_D	01/01/1996	04/30/2001
Trifolium 20A Drain	120	99T20A__DTS_D	01/01/1996	04/30/2001
Trifolium Lateral 5 Spill	121	98T5____099_S	07/01/1985	**02/02/1999**
Trifolium Lateral 9 Spill	T09SA	15T9____180ES	07/01/1985	**06/30/1997**
U Drain	141	99U_____DTS_D	01/01/1996	04/30/2001
Vail Lateral 4 Spill	149	98V4____422_S	01/01/1988	**03/31/2001**
Vail Lateral 4A Spill	150	99V4A___461_S	01/01/1996	04/30/2001
Vail Lateral 6 Spill	154	19V6____612_S	01/01/1982	**10/20/1998**
Verde Drain Outlet	159	98VRD____AR_D	01/01/1996	**03/31/2001**
W+Y Drain	142	99WY____DTS_D	01/01/1996	04/30/2001
Westside Main Canal Weir	118	98WSM___064_W	01/01/1996	**03/31/2001**
Wisteria Lateral 6A Spill	998		01/01/1988	**05/01/1991**
Wormwood Canal Spill	183	19WW____088_S	10/30/1985	**01/23/2001**
Z Drain	143	99Z_____DTS_D	01/01/1996	04/30/2001

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RTU's + PLC's Site Name	Rep Name	Site Code	From Date	To Date
AAC Allison Check	ALLIA	97AAC___ALL_C	03/06/1997	04/30/2001
AAC Drop 1 Check	DR1AA	97AAC____D1_V	01/16/1997	04/30/2001
AAC New River Siphon	NRCHA	97AAC____NR_V	03/06/1997	04/30/2001
AAC d/s Central Main Check	CMCHA	97AAC____CM_C	02/25/1997	04/30/2001
AAC d/s East Highline Check	EHCKA	97AAC___EHLCV	02/25/1997	04/30/2001
AAC to New River Spillway	NRSPA	97AAC____NR_S	07/31/1997	04/30/2001
Acacia Canal Heading BCW	ACIAA	97ACA_____H	04/21/1997	04/30/2001
Alamo River Drop 3	ARD3	19AR_____D3AR	05/09/1996	04/30/2001
Alamo River In	ALIN	97AR_____USMW	01/14/1997	04/30/2001
Alamo River Out	ALOU	97AR_____SS_V	01/15/1997	04/30/2001
Alder Canal Heading BCW	ALDEA	97ALD_____H	04/21/1997	04/30/2001
B Drain	BSPLD	17B_____044_D	09/08/1994	**10/17/1995**
B Lateral Interface	BIFGA	17B_____032_I	01/31/1996	04/30/2001
B Lateral Spill	BSPLA	17B_____044_S	12/19/1993	04/30/2001
Bevins Reservoir Discharge	CBRESA	03BEVRES____R	01/01/1996	04/30/2001
Briar Discharge to Central Main Canal	BRISA	97BRI___007_I	03/06/1997	04/30/2001
C Drain	CSPLD	17C_____031_D	06/01/1994	**10/04/1995**
C Lateral Interface	CIFGA	17C_____031_I	01/31/1996	04/30/2001
C Lateral Spill	CSPLA	17C_____031_S	12/19/1993	04/30/2001
Carter Reservoir Discharge to WSM	CARO	97CARRES____V	05/01/1997	04/30/2001
Central Main Emergency (Dahlia) Spill	DHSP	97CM___ELDH_S	08/06/1997	04/30/2001
Central Main Heading at Briar Siphon	CMTOA	97CM____AAC_H	03/06/1997	04/30/2001
Coachella Canal Heading	COAC	97COA_____H	01/16/1997	04/30/2001
Coachella Heading Flume	COAH	97COA___AAC_F	05/12/1998	04/30/2001
D Drain	DDRN	17D_____D	05/03/1994	**10/17/1995**
D Lateral Interface	DIFGA	17D_____031_I	01/31/1996	04/30/2001
D Lateral Spill	DSPLA	17D_____031_S	12/19/1993	04/30/2001
Daffodil Canal Heading BCW	DAFF	19DAF_____H	08/08/1996	04/30/2001
Daffodil Canal Spill	DAFFS	19DAF___020_S	08/08/1996	04/30/2001
E Drain	EDRN	17E_____D	05/03/1994	**10/17/1995**
EHL Canal d/s Nectarine Check	NECTA	97EHL___NEC_C	08/14/1997	04/30/2001

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RTU's + PLC's Site Name	Rep Name	Site Code	From Date	To Date
East Highline Canal Drop 16	HL16	19EHL___016_W	05/29/1996	04/30/2001
East Highline Canal Spill to Z Spill	ZSPLA	04GALRES_EHLS	01/23/1995	04/30/2001
East Highline Heading AVM	EHTOA	97EHL___AAC_H	08/11/1997	04/30/2001
East Highline IG to Galleano Reservoir	GALI	97EHL___GAL_I	06/02/1997	04/30/2001
East Highline IG to Singh Reservoir	SINI	97EHL___SIN_I	06/03/1997	04/30/2001
East Highline Side Main Heading BCW	EHSMA	97HLS_____H	04/24/1997	04/30/2001
Ebony Canal Heading BCW	EBOY	19EBO_____H	08/08/1996	04/30/2001
Ebony Canal Spill	EBOYS	19EBO___014_S	08/08/1996	04/30/2001
Elder Canal Heading BCW	ELDH	19ELD_____H	03/15/1996	04/30/2001
Elder Canal Spill	ELDCA	19ELD___129_S	01/01/1997	04/30/2001
Elder Lateral 13 Spill	EL13S	19ELD13_099_S	01/01/1997	04/30/2001
Elm Canal Spill	ELMSA	19ELM___054_S	01/01/1997	04/30/2001
Elm Lateral 3 Spill	ELM3S	19ELM3__029_S	01/28/1997	04/30/2001
Eucalyptus Canal Heading BCW	EUCH	97EUC____CM_H	08/07/1997	04/30/2001
Fillaree Canal Spill	104	19FIL___030_S	10/05/1999	04/30/2001
Galleano Reservoir Discharge to EHL	GALO	97GALRESEHL_R	06/02/1997	04/30/2001
Holtville Drain 1 to Holtville Main Dr	HVHMD	03HV1___018_D	05/22/1993	**07/12/1995**
Malva Drain	MLV2D	17ML2_____D	04/30/1994	**10/17/1995**
Malva Lateral 2 Interface	MLV2IA	17ML2___019_I	01/31/1996	04/30/2001
Malva Lateral 2 Spill	MLV2A	17ML2___020_S	12/19/1993	04/30/2001
Marigold Drain	MG26ADRN	17MAR___026_D	05/28/1994	04/30/2001
Marigold Lateral Interface	MARIA	17MAR___023_I	01/31/1996	04/30/2001
Marigold Lateral Spill at Delivery 24	MG24A	17MAR___024_S	12/19/1993	04/30/2001
Marigold Lateral Spill at Delivery 26	MG26A	17MAR___026_S	12/21/1993	04/30/2001
Mayflower Drain	MFLWADRN	17MAY___022_D	06/02/1994	04/30/2001
Mayflower Lateral Heading BCW	MFLHA	17MAY_____H	04/16/1994	04/30/2001
Mayflower Lateral Interface	MAYIA	17MAY___020AI	01/31/1996	04/30/2001
Mayflower Lateral Spill	MFLWA	17MAY___022_S	12/19/1993	04/30/2001
Mul-D Interceptor North SCW d/s B Lat IG	MDIW3A	17MDI___BIG_W	05/09/1996	04/30/2001
Mul-D Interceptor South BCW d/s Nut IG	MDIW2A	17MDI_NUTIG_W	01/31/1996	04/30/2001
Mul-D Interceptor South BCW d/s Std IG	MDIW1A	17MDI_STDIG_W	02/12/1996	**01/06/1997**

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Mulberry Drain	MULSD	17MUL___022_D	06/25/1994	**10/17/1995**
Mulberry Lateral Heading BCW	MULHA	17MUL_____H	07/07/1993	04/30/2001
Mulberry Lateral Interface	MULIA	17MUL___020_I	01/31/1996	04/30/2001
Mulberry Lateral Spill	MULSA	17MUL___022_S	07/07/1993	04/30/2001
Munyon Lateral Spill	112	19MUN___029_S	09/15/1998	04/30/2001
Myrtle Lateral Heading BCW	MYRH	19MYR___EHL_H	05/26/1999	04/30/2001
Myrtle Lateral Spill	111	19MYR___028_S	09/15/1998	04/30/2001
Narcissus Drain	NARSADRN	17NAR___023_D	06/10/1994	04/30/2001
Narcissus Lateral Interface	NARIA	17NAR___019_I	01/31/1996	04/30/2001
Narcissus Lateral Spill	NARSA	17NAR___023_S	07/07/1993	04/30/2001
Narcisuss Lateral Heading BCW	NARHA	17NAR_____H	07/07/1993	**03/13/1994**
Nectarine Drain	NECDA	17NEC_____D	04/30/1994	**10/17/1995**
Nettle Drain	NTTLD	17NET___019_D	07/21/1994	**10/17/1995**
Nettle Lateral Interface	NETIA	17NET___016AI	01/31/1996	04/30/2001
Nettle Lateral Spill	NTTLA	17NET___019_S	12/19/1993	04/30/2001
New River In	NRIN	97NR____USMG	01/15/1997	04/30/2001
New River Out	NROU	97NR____SS_G	01/15/1997	04/30/2001
Niland Extension Heading BCW	NDXH	19NDX_____H	02/20/1996	04/30/2001
Nutmeg Drain	NUTDA	17NUT_____D	04/30/1994	**10/17/1995**
Nutmeg Lateral Interface	NUTIA	17NUT___017AI	01/31/1996	04/30/2001
Oasis Drain to Alamo River	OASSD	03OAS___034_D	12/17/1993	**07/12/1995**
Oasis Drain to Holtville Drain 8	OAH8D	03OAS___024AD	05/14/1993	**07/12/1995**
Oasis Drain to Holtville Main Drain	OAHMD	03OAS___020_D	06/08/1993	**07/12/1995**
Oasis Lateral Interface	OASIA	03OAS___034_I	06/11/1993	04/30/2001
Oasis Lateral Spill	OASSA	03OAS___034_S	01/22/1993	04/30/2001
Oat Drain to Alamo River	OATSD	03OAT___031_D	12/16/1993	**07/12/1995**
Oat Drain to Holtville Drain 8	OTH8D	03OAT___023_D	05/14/1993	**07/12/1995**
Oat Drain to Holtville Main Drain	OTHMD	03OAT___020_D	05/14/1993	**07/12/1995**
Oat Lateral Interface	OATIA	03OAT___031_I	06/11/1993	04/30/2001
Oat Lateral Spill	OATSA	03OAT___031_S	01/22/1993	04/30/2001
Olive Lateral Spill	110	19OLI___029_S	09/15/1998	04/30/2001

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RTU's + PLC's Site Name	Rep Name	Site Code	From Date	To Date
Orange Lateral Heading BCW	ORNGA	15ORA_____H	07/19/1994	04/30/2001
Orange Lateral Spill	ORASA	15ORA___035_S	10/31/1994	04/30/2001
Orchid Lateral Spill	109	19ORC___044_S	12/04/2000	04/30/2001
Orient Drain to Alamo River	ORARD	03ORI___031_D	05/18/1993	**07/12/1995**
Orient Drain to Holtville Main Drain	ORHMD	03ORI___020_D	05/14/1993	**07/12/1995**
Orient Lateral Spill	ORSPA	03ORI___031_S	05/18/1993	**07/12/1995**
Palm Drain to Alamo River	PLMSD	03PLM___036_D	12/17/1993	**07/12/1995**
Palm Lateral Interface	PLMIA	03PLM___036_I	06/11/1993	04/30/2001
Palm Lateral Spill	PLMSA	03PLM___036_S	01/22/1993	04/30/2001
Pepper Drain to Alamo River	PEPDD	03PEP___036_D	03/19/1994	**07/12/1995**
Pepper Drain to Holtville Main Drain	PEHMD	03PEP___020_D	05/22/1993	**07/12/1995**
Pepper Lateral Check 36 (Interceptor)	PEPCA	03PEP___036_C	03/19/1994	04/30/2001
Pepper Lateral Interface	PEPIA	03PEP___033_I	06/11/1993	04/30/2001
Pepper Lateral Spill	PEPSA	03PEP___033_S	01/22/1993	04/30/2001
Pine Drain to Alamo River	PINSD	03PIN___033_D	06/08/1993	**07/12/1995**
Pine Drain to Holtville Drain 4	PNH4D	03PIN___020_D	05/14/1993	**07/12/1995**
Pine Drain to Holtville Drain 8	PNH8D	03PIN___023_D	05/14/1993	**07/12/1995**
Pine Drain to Holtville Main Drain	PNHMD	03PIN___008_D	05/22/1993	**07/12/1995**
Pine Lateral Interface	PINIA	03PIN___033_I	06/11/1993	04/30/2001
Pine Lateral Spill	PINSA	03PIN___033_S	01/30/1993	04/30/2001
Plum Lateral Interface	PLUIA	03PLU___036_I	06/11/1993	04/30/2001
Plum Lateral Spill	PLUSA	03PLU___036_S	01/22/1993	04/30/2001
Plum-Oasis Interceptor BCW at Bevins R	POIWA	03BEVRES_POIW	08/26/1994	04/30/2001
Plum-Oasis Interceptor Spill	POSPA	03POI_____S	04/02/1993	04/30/2001
Pomelo 1 Spill at Delivery 35	POMSA	03POM___035_S	01/22/1993	04/30/2001
Pomelo 2 Spill at Delivery 39	PO39A	03POM___039_S	01/22/1993	04/30/2001
Pomelo Drain to Alamo River	PO39D	03POM___039_D	06/08/1993	**07/12/1995**
Pomelo Drain to Holtville Main Drain	POHMD	03POM___018_D	05/14/1993	**07/12/1995**
Pomelo Lateral Interface	POMIA	03POM___035_I	06/11/1993	04/30/2001
R Lateral Spill	136	19R_____024_S	12/01/2000	04/30/2001
Redwood Canal Heading BCW	REDHA	03RED_____H	03/10/1995	04/30/2001

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Redwood Canal Spill	REDSA	03RED___096_S	07/06/1995	04/30/2001
Redwood Lateral 5 Spill	RED5S	19RED5__076_S	03/12/1997	04/30/2001
Redwood Lateral 8 Spill	RED8S	19RED8__088_S	01/30/1997	04/30/2001
Rockwood Discharge to Vail Supply Canal	RWSP	17RW____173AI	04/11/1996	04/30/2001
Rose Canal Heading BCW	ROSEA	97ROS_____H	04/21/1997	04/30/2001
Rositas Canal IG to Sperber Reservoir	SPEI	97RST___SPE_I	05/01/1997	04/30/2001
Rositas Canal Spill	ROSPA	97RST___005_S	05/02/1997	04/30/2001
Rositas Supply Canal Heading BCW	RSTH	19RST_____H	03/15/1996	04/30/2001
Rubber Heading BCW	RBBRA	97RUB_____H	04/21/1997	04/30/2001
Russell Reservoir Discharge	RUSR	17RUSRES____R	04/11/1997	04/30/2001
Singh Reservoir Discharge to EHL Canal	SPMP	09SINRES_EHLR	01/27/1999	04/30/2001
Singh Reservoir Discharge to Vail Supply	SINO	97SINRESVS__R	05/29/1997	04/30/2001
South Alamo Canal Heading	SOAH	97SOA___AAC_H	08/14/1997	04/30/2001
Sperber Reservoir Discharge to Rose C	SPE01	97SPERESROS_R	05/01/1997	04/30/2001
Sperber Reservoir Discharge to Rubber C	SPE02	97SPERESRUB_R	05/01/1997	04/30/2001
Spruce Canal Interface	SPUI	08SPU___032_I	12/04/1997	04/30/2001
Spruce Canal Spill	SPSPA	08SP____036AS	01/24/1995	04/30/2001
Spruce Lateral 5 Spill	SP5SA	08SP5___087BS	01/18/1995	04/30/2001
Spruce Lateral 6 Interface	SP6I	08SP6___100_I	12/19/1997	04/30/2001
Spruce Lateral 6 Spill	SP6SA	08SP6___100AS	01/18/1995	04/30/2001
Standard Drain	STDDA	17STD_____D	05/04/1994	04/30/2001
Standard Lateral Heading SCW	STDHA	17STD_____H	07/07/1993	04/30/2001
Standard Lateral Interface	STDIA	17STD___018_I	01/31/1996	04/30/2001
Standard Lateral Spill	STDSA	17STD___019_S	07/07/1993	04/30/2001
Tamarack Lateral Interface	TMKI	08TAM___224_I	12/22/1997	04/30/2001
Timothy Lateral Interface	TIMI	08TIM___212_I	01/20/1998	04/30/2001
Township Drain to Alamo River	TOWSD	03TOW___030_D	06/08/1993	**07/12/1995**
Township Drain to Holtville Drain 8	TWH8D	03TOW___023_D	06/07/1993	**07/12/1995**
Township Drain to Holtville Main Drain	TWHMD	03TOW___020_D	05/22/1993	**07/12/1995**
Township Lateral Interface	TOWIA	03TOW___030_I	06/11/1993	04/30/2001
Township Lateral Spill	TOWSA	03TOW___030_S	02/05/1993	04/30/2001

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Trifolium Interceptor BCW at Willey Res	TRIW	08TRI___RES_W	12/22/1997	04/30/2001
Trifolium Interceptor Spill	TRSP	08TRI___RES_S	12/22/1997	04/30/2001
Trifolium Lateral 10 Interface	TR10I	08T10___200_I	12/22/1997	04/30/2001
Trifolium Lateral 11 Interface	TR11I	08T11___220_I	01/01/1998	04/30/2001
Trifolium Lateral 11 Spill	T11SA	08T11___220ES	02/08/1995	04/30/2001
Trifolium Lateral 12 Heading BCW	T12HA	15T12_____H	05/13/1994	04/30/2001
Trifolium Lateral 12 Interface	TR12I	08T12___232_I	01/20/1998	04/30/2001
Trifolium Lateral 12 Spill	T12S	15T12___237_S	03/01/1996	04/30/2001
Trifolium Lateral 12 Spill (94/95)	T12SA	15T12___238_S	03/04/1994	**09/17/1995**
Trifolium Lateral 13 Heading BCW	LT13A	15T13_____H	02/01/1994	04/30/2001
Trifolium Lateral 13 Spill	T13SA	15T13___259_S	03/04/1994	04/30/2001
Trifolium Lateral 2 Interface	TR02I	08T2____036_I	01/13/1998	04/30/2001
Trifolium Lateral 2 Spill	T02S	08T2____036_S	01/17/1996	04/30/2001
Trifolium Lateral 2 Spill (1995)	T02SA	08T2____038_S	01/18/1995	**01/16/1996**
Trifolium Lateral 3 Interface	TR03I	08T3____055_I	12/22/1997	04/30/2001
Trifolium Lateral 4 Interface	TR04I	08T4____079_I	12/22/1997	04/30/2001
Trifolium Lateral 4 Spill	T04SA	08T4____079_S	01/18/1995	04/30/2001
Trifolium Lateral 5 Interface	TR05I	08T5____098AI	12/22/1997	04/30/2001
Trifolium Lateral 6 Interface	TR06I	08T6____118_I	04/09/1998	04/30/2001
Trifolium Lateral 7 Interface	TR07I	08T7____137_I	12/22/1997	04/30/2001
Trifolium Lateral 7 Spill	T07SA	15T7____140AS	01/15/1994	04/30/2001
Trifolium Lateral 8 Heading BCW	T08HA	15T8_____H	07/13/1994	04/30/2001
Trifolium Lateral 8 Interface	TR08I	08T8____155_I	12/22/1997	04/30/2001
Trifolium Lateral 8 Spill	T08SA	15T8____160_S	10/31/1994	04/30/2001
Trifolium Lateral 9 Heading BCW	T09HA	15T9_____H	05/13/1994	04/30/2001
Trifolium Lateral 9 Interface	TR09I	08T9____180FI	01/01/1998	04/30/2001
Trifolium Lateral 9 Spill	T09SA	15T9____180ES	03/03/1994	**04/24/1997**
Vail Canal Heading	VMHA	97VM_____VS_H	08/11/1997	04/30/2001
Vail Canal IG to Willey Reservoir	VMI	08VM____701_I	12/22/1997	04/30/2001
Vail Canal Spill	VMSPA	17VM____701_S	12/19/1993	04/30/2001
Vail Lateral 4 IG to Kate's Lake	VLAT4	97V4____409_I	09/28/2000	04/30/2001

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RTU's + PLC's Site Name	Rep Name	Site Code	From Date	To Date
Vail Lateral 6 Spill	154	19V6____612_S	10/21/1998	04/30/2001
Vail Supply Canal Drop 41	VS41	17VS____041_W	05/09/1996	04/30/2001
Vail Supply Canal Heading Drop 0	VS0H	97VS____000_H	10/03/1997	04/30/2001
Vail Supply Canal Heading Drop 2	VS2H	19VS____002_H	03/13/1996	04/30/2001
Vail Supply Canal IG to Russell Res	RUSI	17VS__RUSRESI	03/13/1997	04/30/2001
Vail Supply Canal IG to Young Reservoir	MDRI	17VS____040AI	05/07/1996	04/30/2001
Vail Supply Canal Spill at North End Dam	VNEDA	17VM____NED_S	07/02/1994	04/30/2001
Westside Main Canal Heading at Weir 1	WSMH	97WSM___AAC_H	08/11/1997	04/30/2001
Westside Main Canal Sp to Trif Storm Dr	WSMSA	01WSM___100_S	07/06/1995	04/30/2001
Westside Main Dixie 6 Spill	DX06A	97WSM___DIX6S	08/06/1997	04/30/2001
Westside Main Dixie Spill	DXSP	97WSM___DIX_S	02/01/2001	04/30/2001
Westside Main IG to Carter Reservoir	CARI	97WSM___CAR_I	05/01/1997	04/30/2001
Willey Reservoir Discharge	TRES	08TRIRES____R	02/17/1998	04/30/2001
Wormwood Canal Spill	183	19WW____088_S	01/24/2001	04/30/2001
Young Reservoir Discharge	MUDR	17MDRES_____R	05/09/1996	04/30/2001

YEAR: 2001

Imperial Irrigation District
Standard Lateral Heading SCW
17STD_____H
Mean Daily Flow in Cubic Feet per Second

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
01	2.4	12.8	1.6	32.6	0.6	23.4	49.8	43.1	35.3	26.0	24.9	3.9
02	12.6	23.4	1.5	36.9	0.2	23.4	39.9	29.2	44.6	40.2	15.8	10.5
03	15.4	6.3	1.6	31.4	33.2	30.2	24.2	24.9	47.3	40.2	5.0	13.9
04	12.7	1.5	2.7	36.0	46.8	26.2	19.9	33.3	41.6	38.0	3.1	13.9
05	5.3	8.2	3.3	29.0	34.5	34.8	24.4	29.8	43.3	40.4	12.2	21.1
06	2.6	8.6	3.3	29.1	29.5	33.7	26.8	28.5	39.3	34.9	21.1	11.0
07	2.6	20.2	8.1	35.1	31.7	24.0	24.9	27.3	31.5	31.7	14.2	9.1
08	0.5	21.5	4.1	20.8	32.7	25.1	24.0	19.4	10.0	30.3	11.0	8.8
09	0.4	15.0	1.9	12.6	24.8	28.0	21.6	16.8	1.0	24.3	15.0	13.0
10	0.4	5.4	1.9	26.6	26.4	21.1	28.6	25.6	13.5	35.9	10.6	12.9
11	0.4	2.2	9.9	25.3	25.8	18.1	24.7	30.8	16.4	29.3	5.0	12.0
12	3.5	2.3	14.1	26.8	25.7	23.3	39.3	39.6	12.8	15.1	10.9	13.4
13	1.6	13.9	11.6	26.9	26.5	23.9	41.7	39.7	25.3	11.5	13.1	28.0
14	17.2	12.8	14.1	12.0	23.0	38.2	40.2	35.3	34.3	13.3	13.0	30.6
15	20.4	21.2	31.3	15.4	20.3	46.1	41.2	32.6	19.4	27.9	4.0	8.0
16	19.8	31.8	23.9	28.8	30.8	43.1	42.6	37.2	4.2	26.0	0.9	3.6
17	6.9	21.6	10.9	34.4	25.7	49.9	22.0	40.2	33.5	22.2	20.0	11.0
18	0.8	6.3	8.5	35.8	28.7	39.7	11.1	28.8	48.3	23.1	23.9	6.6
19	0.7	12.2	9.2	35.0	48.1	26.0	10.2	22.3	31.4	15.7	20.1	11.5
20	0.7	21.2	31.7	36.4	30.5	15.0	33.2	23.0	21.3	12.9	19.9	7.9
21	0.7	28.8	29.6	26.1	35.0	13.8	43.8	16.4	16.2	20.3	19.7	1.5
22	0.7	46.6	25.6	13.5	20.7	14.7	22.8	19.8	8.0	22.3	6.1	3.8
23	4.8	36.9	19.2	21.0	13.4	26.7	35.9	28.3	2.3	13.9	2.7	4.7
24	2.0	36.1	10.3	14.6	16.9	29.8	47.7	22.0	11.1	8.6	8.1	4.2
25	0.7	20.4	24.9	18.6	35.5	31.0	39.6	24.2	14.5	7.5	4.1	4.4
26	15.0	9.4	30.5	39.3	33.4	23.1	28.3	23.6	10.0	3.9	17.3	4.5
27	12.6	3.5	27.8	51.5	34.3	29.3	25.0	21.2	2.9	2.5	18.2	12.2
28	3.5	1.6	25.6	53.1	36.5	29.5 -	35.8	6.3	14.8	0.9	10.1	14.8
29	7.8		27.9	34.6	38.1	55.3	31.9	10.2	12.5	8.2	10.0	14.2
30	15.9		37.0	8.0	22.9	56.9	40.3	14.3	3.1	18.7	9.9	4.8
31	15.5		36.8		20.7		43.1	12.2		31.7		3.4
Total	206.1	451.7	490.4	849.2	852.9	903.3	984.5	805.9	649.7	677.4	369.9	323.2
Mean	6.6	16.1	15.8	28.3	27.5	30.1	31.8	26.0	21.7	21.9	12.3	10.4
Min	0.4	1.5	1.5	8.0	0.2	13.8	10.2	6.3	1.0	0.9	0.9	1.5
Max	20.4	46.6	37.0	53.1	48.1	56.9	49.8	43.1	48.3	40.4	24.9	30.6
AC-FT	408.8	895.9	972.7	1,684.4	1,691.7	1,791.7	1,952.8	1,598.5	1,288.7	1,343.6	733.7	641.1

e - 100% of daily volume estimated
* - 50% or more of daily volume estimated

Mean Flow = 20.7 cfs
Total Volume = 15,003.6 ac-ft

Notes: Day begins at midnight (0000 hrs).
Estimated flow for a missing record gap is computed as the average flow of the records preceding and following the gap equal in number to the missing records in the gap.

Date Printed: 03/07/2002

Prepared by: WIS/IID

YEAR: 2001

Imperial Irrigation District
Standard Lateral Spill
17STD___019_S
Mean Daily Flow in Cubic Feet per Second

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
01	0.0	0.0	0.0	0.0	0.0e	0.0	0.4*	0.2	0.0	0.0	0.0	0.0
02	0.0	0.0	0.0	0.0	0.0e	0.0	0.6	0.2	0.0	0.1	0.0	0.0
03	0.0	0.0	0.0	0.0	0.0e	0.0	0.6	0.0	0.0	0.2	0.0	0.0
04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
05	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
06	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
07	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
11	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0
12	0.0	0.0	1.0	0.6	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
13	0.0	0.4	0.5	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
14	0.0	0.8	0.0	0.2	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0
15	0.0	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.3	0.0	0.0	0.0
16	0.0	0.0	0.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.1	0.7	0.0	0.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0
18	0.0	0.4	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.7	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
23	0.5	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
24	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.8	0.0	0.0
25	0.0	0.0e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.3	0.0	0.5	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.2	0.0	0.0	0.0	0.0
28	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
29	0.1		0.8	0.0	0.0	0.5e	0.0	0.0	0.3	0.0	0.0	0.0
30	0.0		0.4	0.2	0.1	0.5e	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
Total	1.3	1.9	6.8	2.7	2.0	3.2	2.6	1.8	1.9	4.7	0.0	0.0
Mean	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.0
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0.5	0.8	1.0	0.7	0.5	1.3	0.7	0.3	0.4	1.4	0.0	0.0
AC-FT	2.6	3.8	13.5	5.4	4.0	6.3	5.2	3.6	3.8	9.3	0.0	0.0

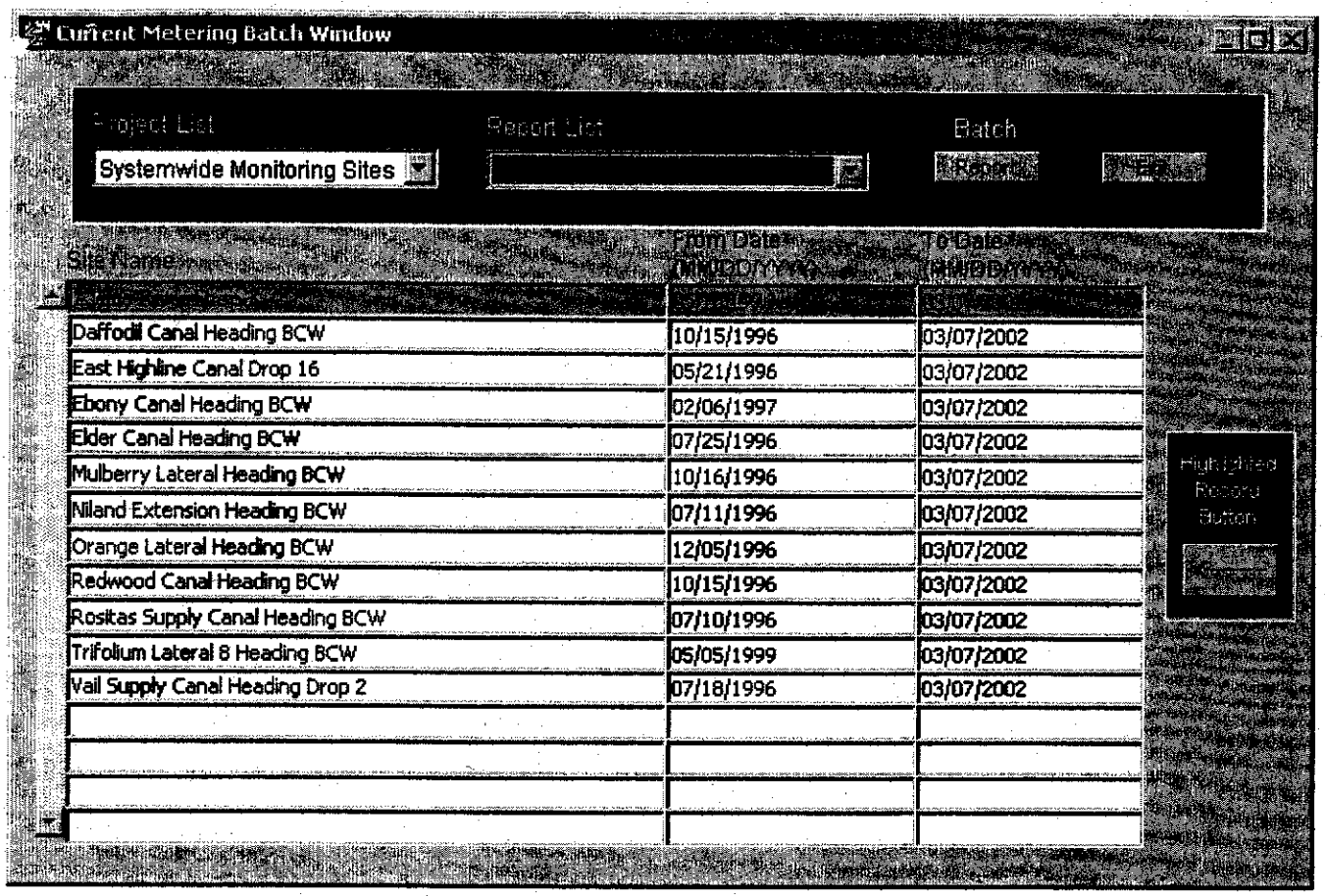
e - 100% of daily volume estimated
* - 50% or more of daily volume estimated

Mean Flow = 0.1 cfs
Total Volume = 57.3 ac-ft

Notes: Day begins at midnight (0000 hrs).
Estimated flow for a missing record gap is computed as the average flow of the records preceding and following the gap equal in number to the missing records in the gap.

Date Printed: 03/07/2002

Prepared by: WIS/IID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Systemwide Monitoring Sites
Report List
Batch
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From Date
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To Date
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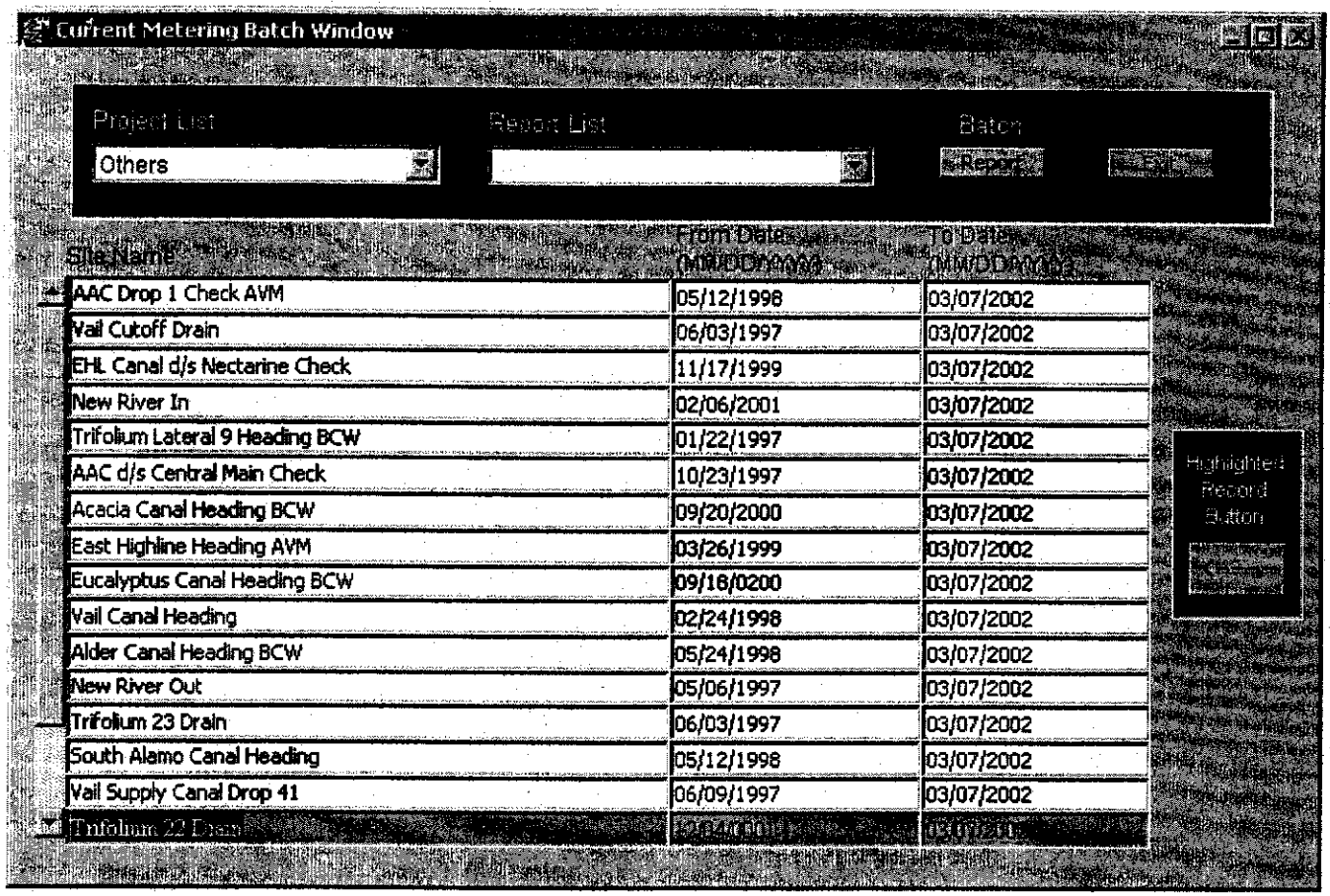
East Highline Canal Drop 16 05/21/1996 03/07/2002
Ebony Canal Heading BCW 02/06/1997 03/07/2002
Elder Canal Heading BCW 07/25/1996 03/07/2002
Mulberry Lateral Heading BCW 10/16/1996 03/07/2002
Niland Extension Heading BCW 07/11/1996 03/07/2002
Orange Lateral Heading BCW 12/05/1996 03/07/2002
Redwood Canal Heading BCW 10/15/1996 03/07/2002
Rositas Supply Canal Heading BCW 07/10/1996 03/07/2002
Trifolium Lateral 8 Heading BCW 05/05/1999 03/07/2002
Vail Supply Canal Heading Drop 2 07/18/1996 03/07/2002
Highlighted Record Button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Project List
Others
Report List
Batch
Report
Exit
Site Name
From Date (MM/DD/YYYY
To Date (MM/DD/YYYY
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Vail Cutoff Drain 06/03/1997 03/07/2002
EHL Canal d/s Nectarine Check 11/17/1999 03/07/2002
New River In 02/06/2001 03/07/2002
Trifolium Lateral 9 Heading BCW 01/22/1997 03/07/2002
AAC d/s Central Main Check 10/23/1997 03/07/2002
Acacia Canal Heading BCW 09/20/2000 03/07/2002
East Highline Heading AVM 03/26/1999 03/07/2002
Eucalyptus Canal Heading BCW 09/18/0200 03/07/2002
Vail Canal Heading 02/24/1998 03/07/2002
Alder Canal Heading BCW 05/24/1998 03/07/2002
New River Out 05/06/1997 03/07/2002
Trifolium 23 Drain 06/03/1997 03/07/2002
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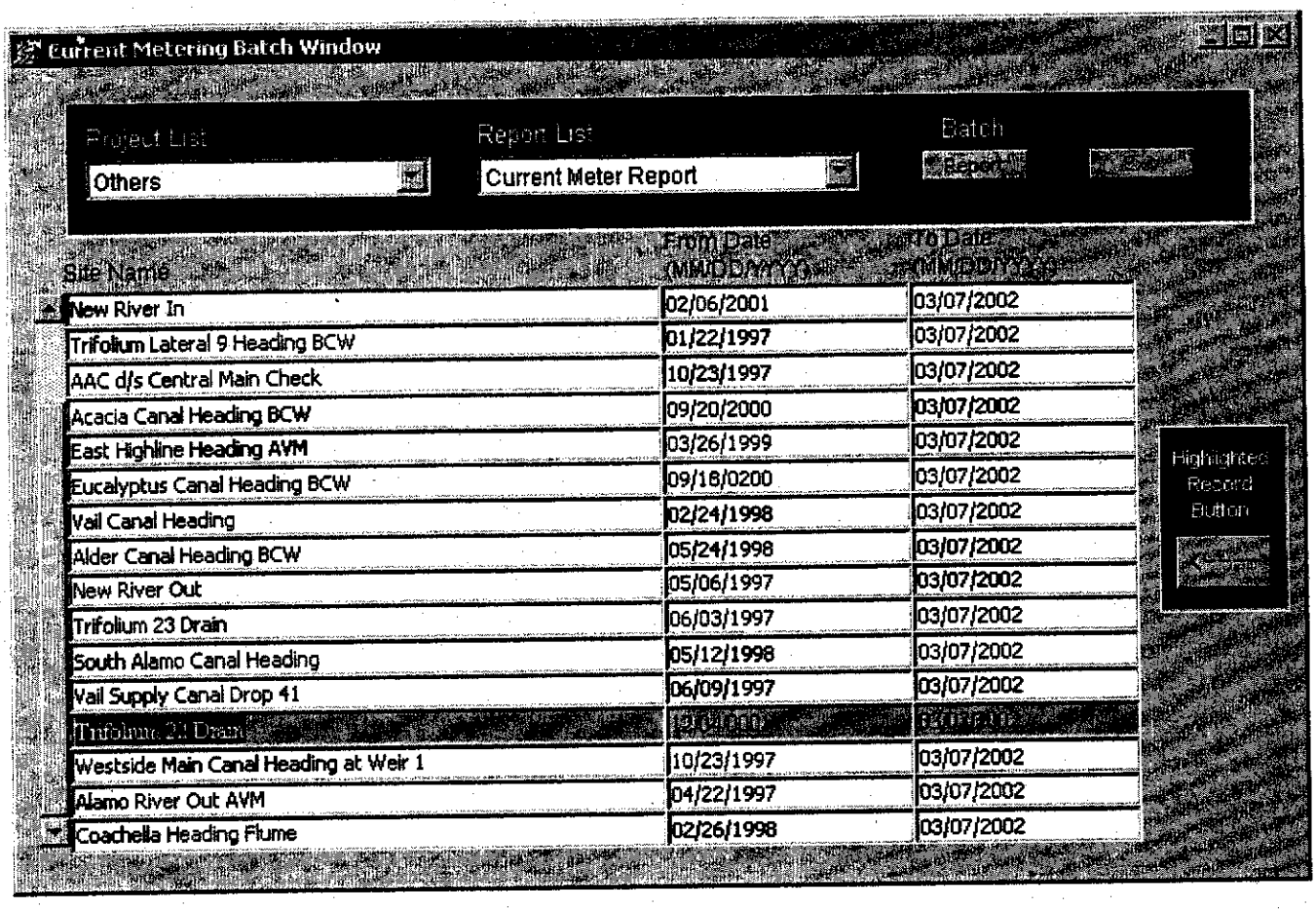
Trifolium 22 Drain
Highlighted Record Button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Project List
Others
Report List
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Batch
Site Name
From Date (MM/DD/YYYY)
To Date (MM/DD/YYYY)
New River In 02/06/2001 03/07/2002
Trifolium Lateral 9 Heading BCW 01/22/1997 03/07/2002
AAC d/s Central Main Check 10/23/1997 03/07/2002
Acacia Canal Heading BCW 09/20/2000 03/07/2002
East Highline Heading AVM 03/26/1999 03/07/2002
Eucalyptus Canal Heading BCW 09/18/0200 03/07/2002
Vail Canal Heading 02/24/1998 03/07/2002
Alder Canal Heading BCW 05/24/1998 03/07/2002
New River Out 05/06/1997 03/07/2002
Trifolium 23 Drain 06/03/1997 03/07/2002
South Alamo Canal Heading 05/12/1998 03/07/2002
Vail Supply Canal Drop 41 06/09/1997 03/07/2002
Trifolium 23 Drain
Westside Main Canal Heading at Weir 1 10/23/1997 03/07/2002
Alamo River Out AVM 04/22/1997 03/07/2002
Coachella Heading Flume 02/26/1998 03/07/2002
Highlighted Record Button