Stormwater Quality Report

City of Mesa, Arizona

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2801 W. Durango
Phoenix, AZ 85009

Volume Two

Storm Hydrographs

Prepared By:

Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, Arizona 85009
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Summary of FCD Sampled Storm Events, February 1995 through January 1996

	Stations Sampled					Rainfall (in)					Duration (min)				
Event Date	MESA_1	MESA_2	MESA_3	MESA_4	MESA_5	MESA_1	MESA_2	MESA_3	MESA_4	MESA_5	MESA_1	MESA_2	MESA_3	MESA_4	MESA_5
2/13/95			X					0.19					346		
2/23/95			X					0.09					600		
2/28/95	X		X	X		0.11		0.10	0.11		272		330	408	
3/5/95	X	X	X	X	X	0.44	0.90	0.30	0.11	0.23	522	908	258	172	332
3/11/95	X	X	X		X	0.23	0.39	0.13		0.26	724	592	346		628
4/19/95					X					0.19					526
5/7/95	X	X	X		X	0.07	0.09	0.20		0.09	516	932	268		452
7/11/95			X					0.07					268		
7/12/95		X					0.29					704			
8/14/95			X					0.44					100		
8/19/95	X	X	X		X	0.81	0.83	0.58		0.35	184	184	116		170
8/24/95			X					0.11					162		
9/7/95	X	X	X			0.30	0.28	0.18			316	552	318		
9/28/95		X	X				0.73	0.52				294	248		
11/1/95	X		X			0.67		0.64			146		168		
11/6/95				X					0.38					328	
2/1/96	X	X	X	X	X	0.66	0.22	0.15	0.49	0.50	814	550	480	1264	870

FCD Stormwater Monitoring Network

Station Key

Agency	Station Address	ID
MESA	Horne and Sixth	MESA1
	Broadway and Lindsay	MESA2
	Falcon Field	MESA3
	Horne and Grandview	MESA4
	Dobson Road	MESA5

Update: 4/8/96

MESA 1

Mesa 1: Horne and Sixth Street - 2/28/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0001
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=63 FEET DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 11:28 PM 27FEB95
COLLECTED 3 SAMPLES IN BOTTLE 4
1 REMAINING
4 BOTTLES TO GO
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MINUTES
LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 1000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=036.00 IN., ROUGHNESS=.013, SLOPE=0.29/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:12:13 PM 2FEB95

	SAMPLE TAKEN					
001-01	11:29 PM	27-Feb-95 005-03	11:59 PM	27-Feb-95 009-04	2:33 AM	28-Feb-95
002-01	11:32 PM	27-Feb-95 006-03	12:36 AM	28-Feb-95 010-04	2:57 AM	28-Feb-95
003-02	11:35 PM	27-Feb-95 007-03	1:35 AM	28-Feb-95 011-04	3:30 AM	28-Feb-95
004-02	11:38 PM	27-Feb-95 008-03	2:11 AM	28-Feb-95		

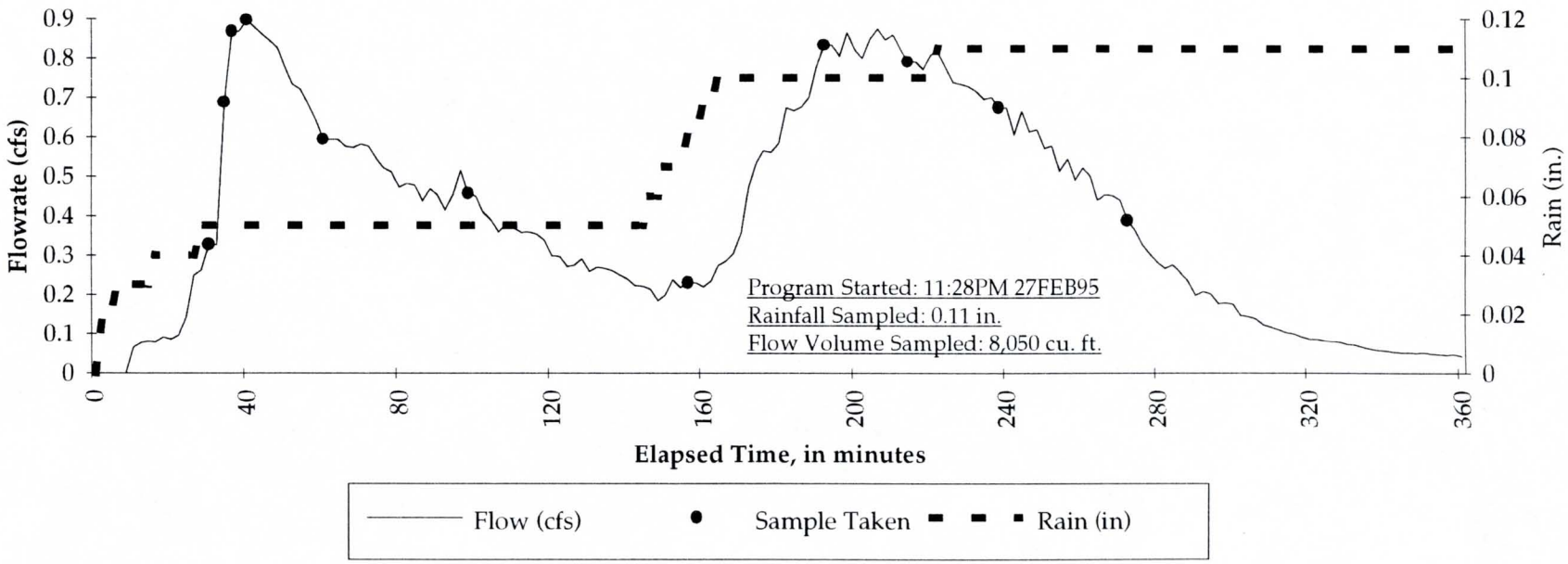
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 11:28 PM 27FEB95

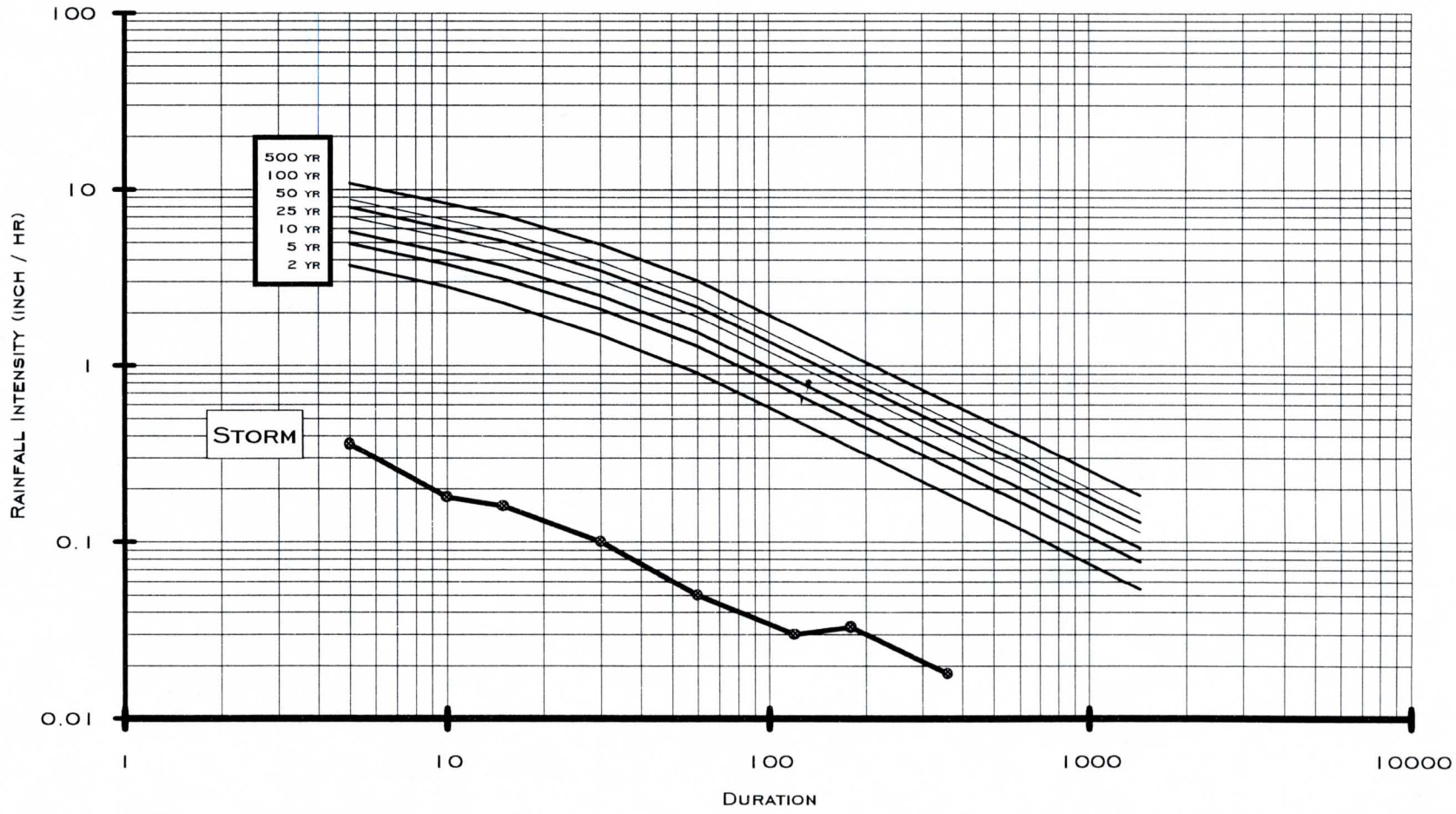
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Flow Volume	Cum Avg Flow Rate	Cumulative Total Flow Volume	Rain
27-Feb-95	0	0.897	0.046	2520	0.046	2520	0.05
28-Feb-95	0	0.875	0.257	7430	0.152	9960	0.06

Mesa 1: Horne and Sixth Street

28 February 1995



MESA 1 - HORNE AND SIXTH
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 2/28/95



Mesa 1: Horne and Sixth Street - 3/5/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0001
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=63 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 7:46 PM 5MAR95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 1000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=036.00 IN., ROUGHNESS=.013, SLOPE=0.29/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:12:13 PM 2FEB95

			SAMPLE TAKEN			
001-01	7:47 PM	5-Mar-95 011-04	10:45 PM	5-Mar-95 020-06	12:39 AM	6-Mar-95
002-01	7:50 PM	5-Mar-95 012-04	10:57 PM	5-Mar-95 021-07	1:14 AM	6-Mar-95
003-02	7:53 PM	5-Mar-95 013-05	11:08 PM	5-Mar-95 022-07	2:20 AM	6-Mar-95
004-02	7:56 PM	5-Mar-95 014-05	11:19 PM	5-Mar-95 023-07	2:42 AM	6-Mar-95
005-03	8:28 PM	5-Mar-95 015-05	11:29 PM	5-Mar-95 024-07	2:56 AM	6-Mar-95
006-03	8:44 PM	5-Mar-95 016-05	11:40 PM	5-Mar-95 025-08	3:08 AM	6-Mar-95
007-03	9:01 PM	5-Mar-95 017-06	11:52 PM	5-Mar-95 026-08	3:19 AM	6-Mar-95
008-03	9:21 PM	5-Mar-95 018-06	12:05 AM	6-Mar-95 027-08	3:29 AM	6-Mar-95
009-04	10:01 PM	5-Mar-95 019-06	12:20 AM	6-Mar-95 028-08	3:38 AM	6-Mar-95
010-04	10:31 PM	5-Mar-95				

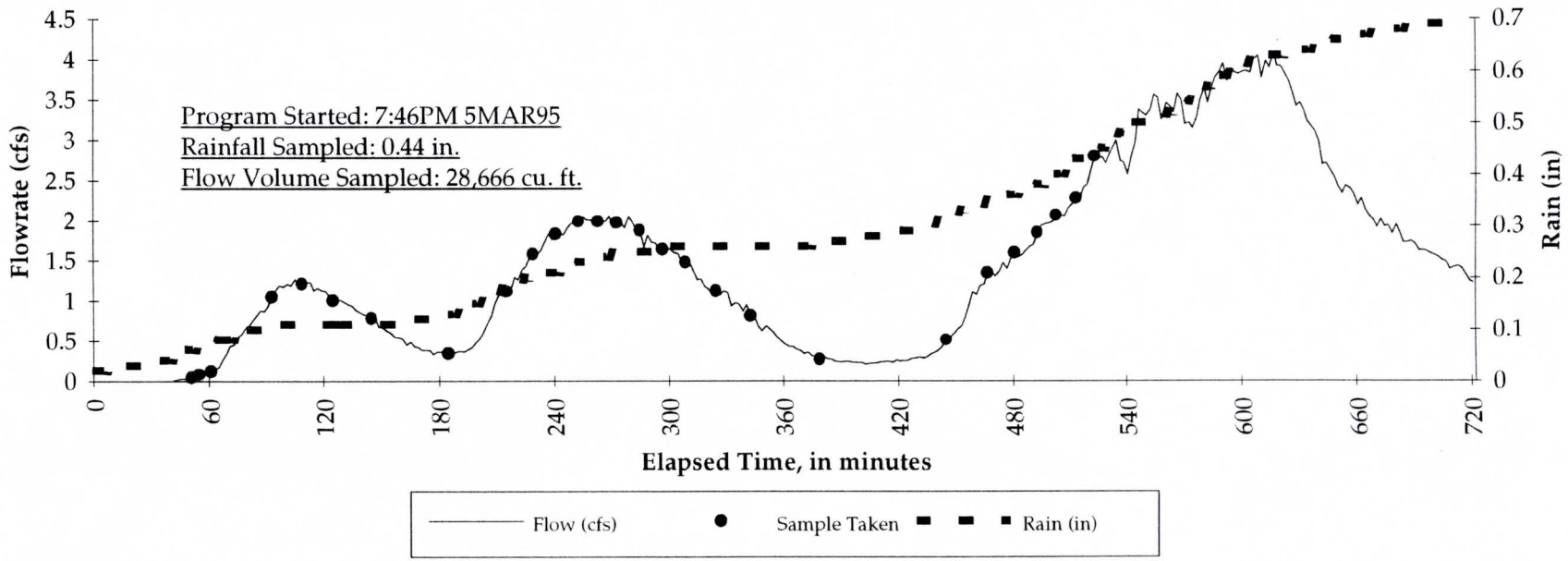
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 7:46 PM 5MAR95

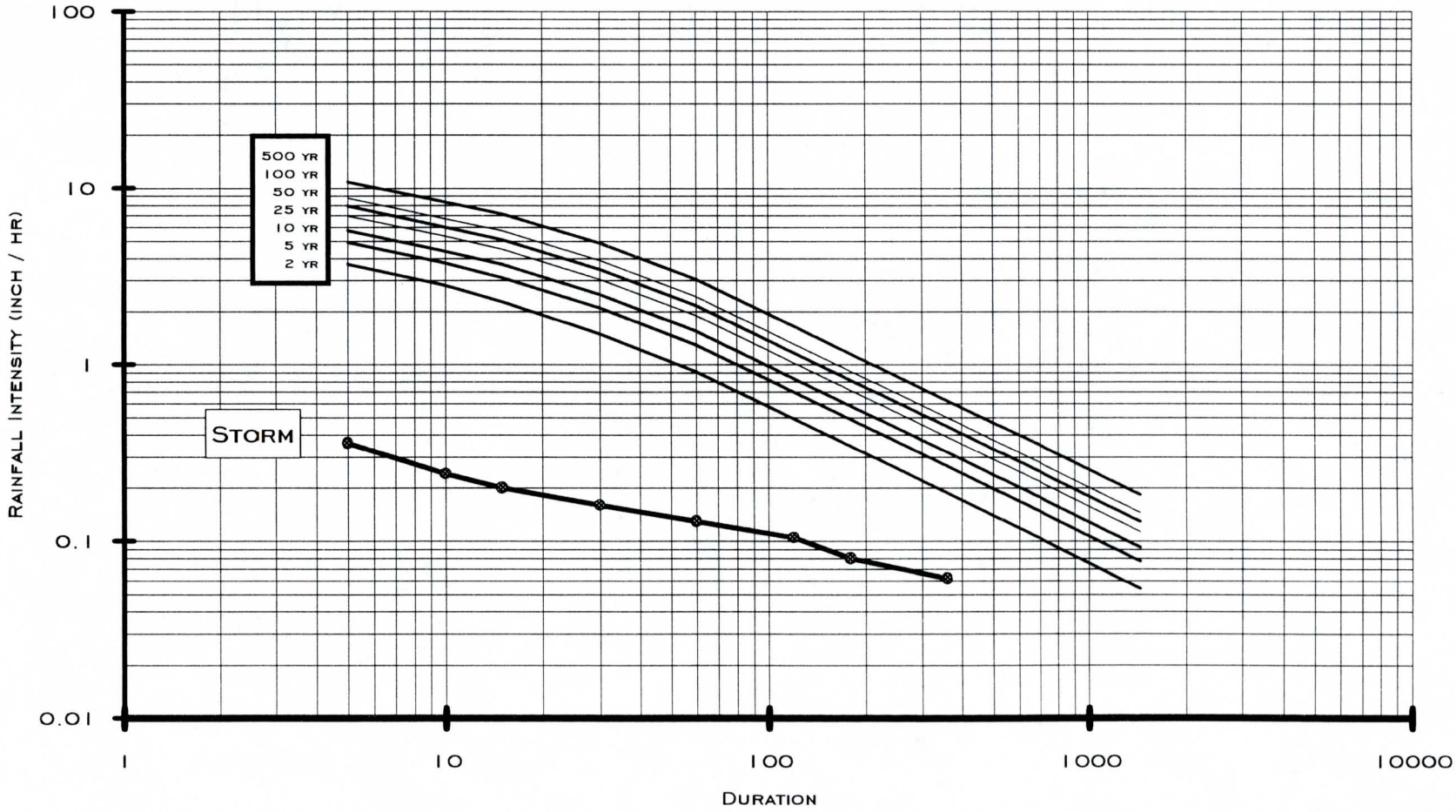
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Total Flow	Cum Avg Daily Flow Rate	Cumulative Flow Volume	Rain
5-Mar-95	0	2.049	0.185	15940	0.046	15940	0.26
6-Mar-95	0	4.083	0.744	64250	0.186	80190	0.57
7-Mar-95	0	0	0	0	0.155	80190	0

Mesa 1: Horne and Sixth Street

5 March 1995



MESA 1 - HORNE AND SIXTH
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 3/5/95



Mesa 1:Horne and Sixth Street - 3/11/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0001
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=63 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 12:11 PM 11MAR95
COLLECTED 0 SAMPLES IN BOTTLE 7
4 REMAINING
1 BOTTLE TO GO
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 1000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=036.00 IN., ROUGHNESS=.013, SLOPE=0.29/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:12:13 PM 2FEB95

SAMPLE TAKEN

001-01	12:12 PM	11-Mar-95 008-03	3:28 PM	11-Mar-95 015-05	9:46 PM	11-Mar-95
002-01	12:16 PM	11-Mar-95 009-04	8:20 PM	11-Mar-95 016-05	9:59 PM	11-Mar-95
003-02	12:19 PM	11-Mar-95 010-04	8:54 PM	11-Mar-95 017-06	10:14 PM	11-Mar-95
004-02	12:22 PM	11-Mar-95 011-04	9:05 PM	11-Mar-95 018-06	10:32 PM	11-Mar-95
005-03	1:13 PM	11-Mar-95 012-04	9:14 PM	11-Mar-95 019-06	11:00 PM	11-Mar-95
006-03	1:37 PM	11-Mar-95 013-05	9:24 PM	11-Mar-95 020-06	11:50 PM	11-Mar-95
007-03	2:07 PM	11-Mar-95 014-05	9:35 PM	11-Mar-95		

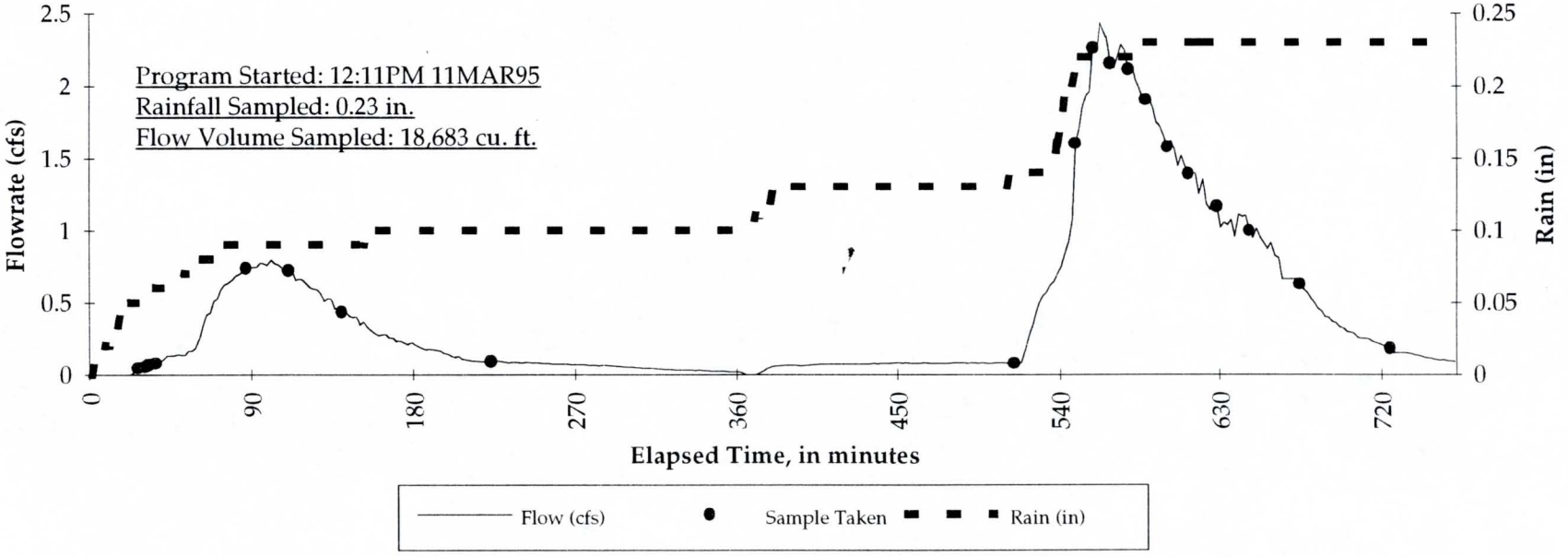
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 12:11 PM 11MAR95

Day	Min Daily Flowrate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Flow Total	Cum Avg Daily Flow Rate	Cumulative Flow Total	Rain
9-Mar-95	0	0.084	0.004	190	0.004	190	0
10-Mar-95	0	0.174	0.007	610	0.005	800	0
11-Mar-95	0	2.436	0.221	18980	0.077	19780	0.23
12-Mar-95	0	0.149	0.01	860	0.06	20650	0.01
13-Mar-95	0	0.008	0.002	60	0.049	20710	0

Mesa 1: Horne and Sixth Street

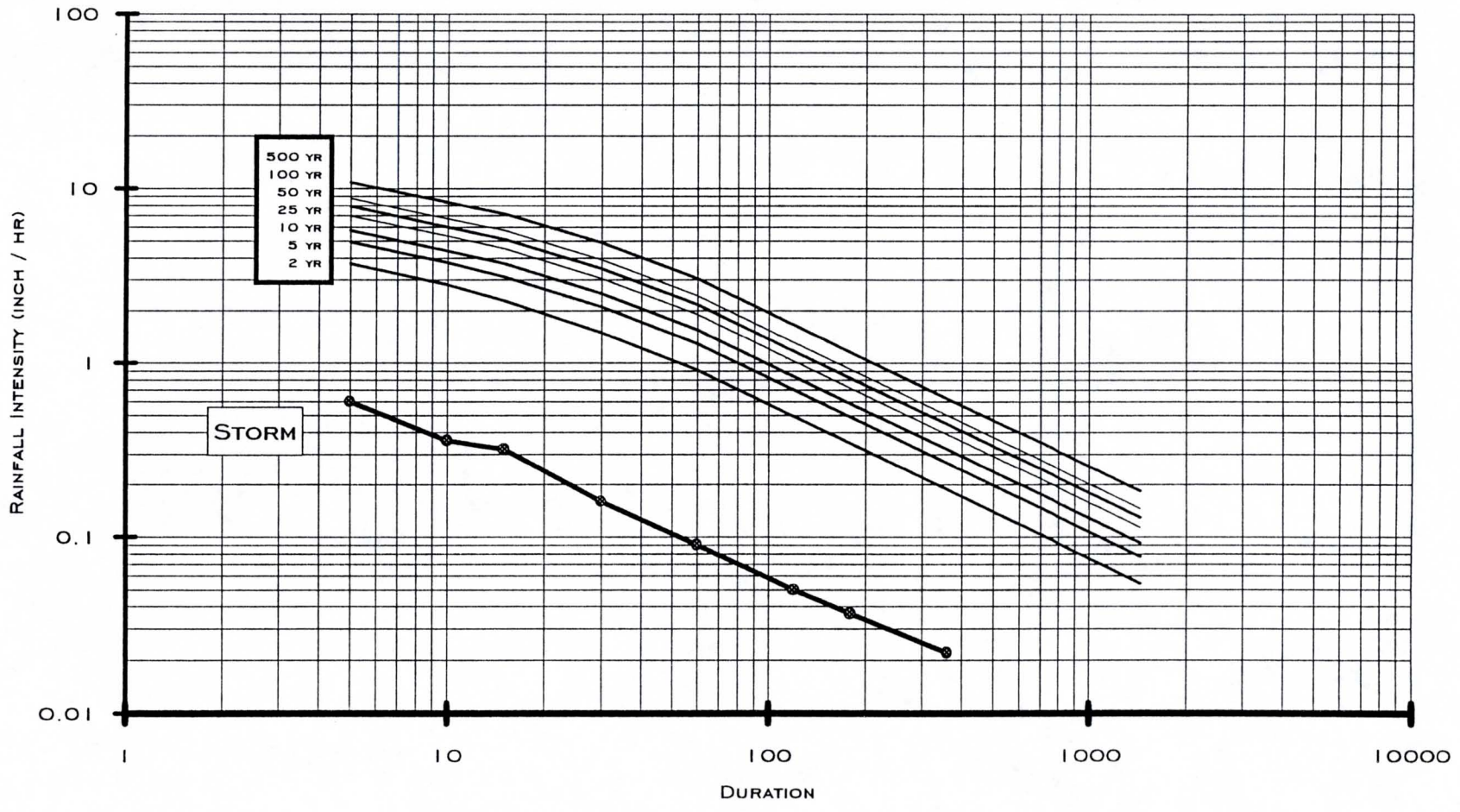
11 March 1995



MESA 1 - HORNE AND SIXTH

RAINFALL INTENSITY - DURATION - FREQUENCY RELATION

STORM OF 3/11/95



Mesa 1: Horne and Sixth Street - 5/7/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0001
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=63 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 4:22 AM 7MAY95
COLLECTED 2 SAMPLES IN BOTTLE 3
2 REMAINING
5 BOTTLES TO GO
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 1000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=036.00 IN., ROUGHNESS=.013, SLOPE=0.29/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:12 AM 21APR95

	SAMPLE TAKEN					
001-01	4:23 AM	7-May-95	003-02	4:31 AM	7-May-95	005-03	5:54 AM	7-May-95
002-01	4:27 AM	7-May-95	004-02	4:35 AM	7-May-95	006-03	11:55 AM	7-May-95

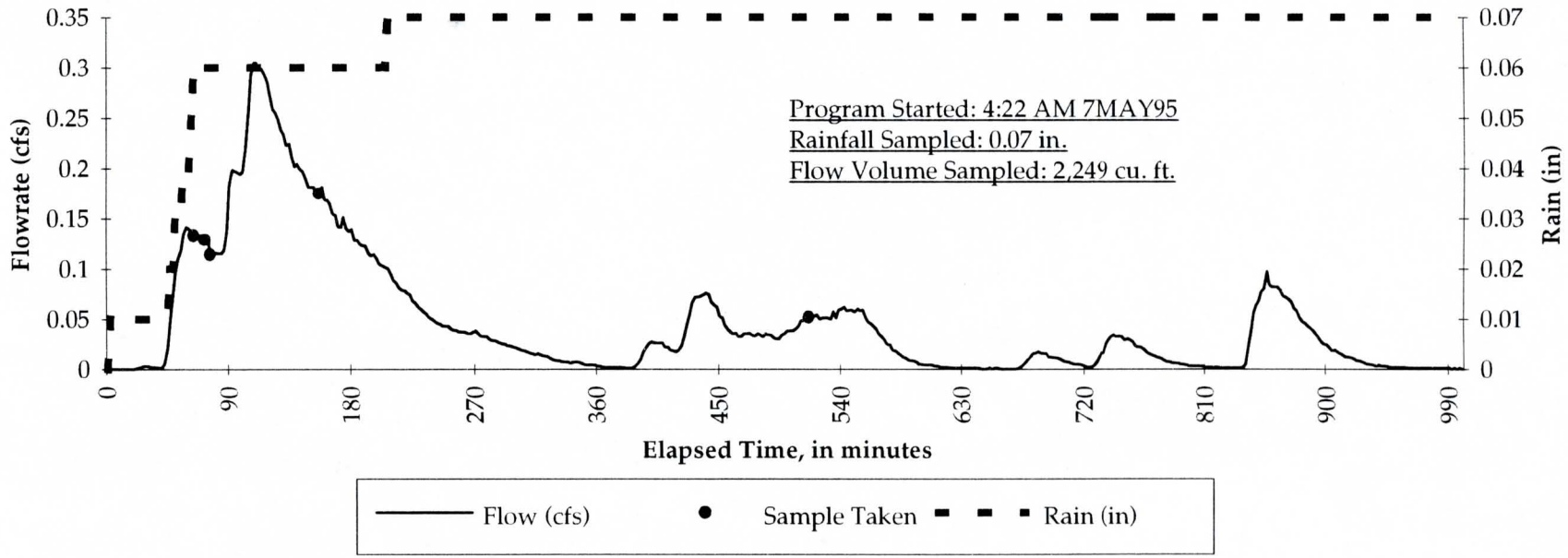
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 4:22 AM 7MAY95

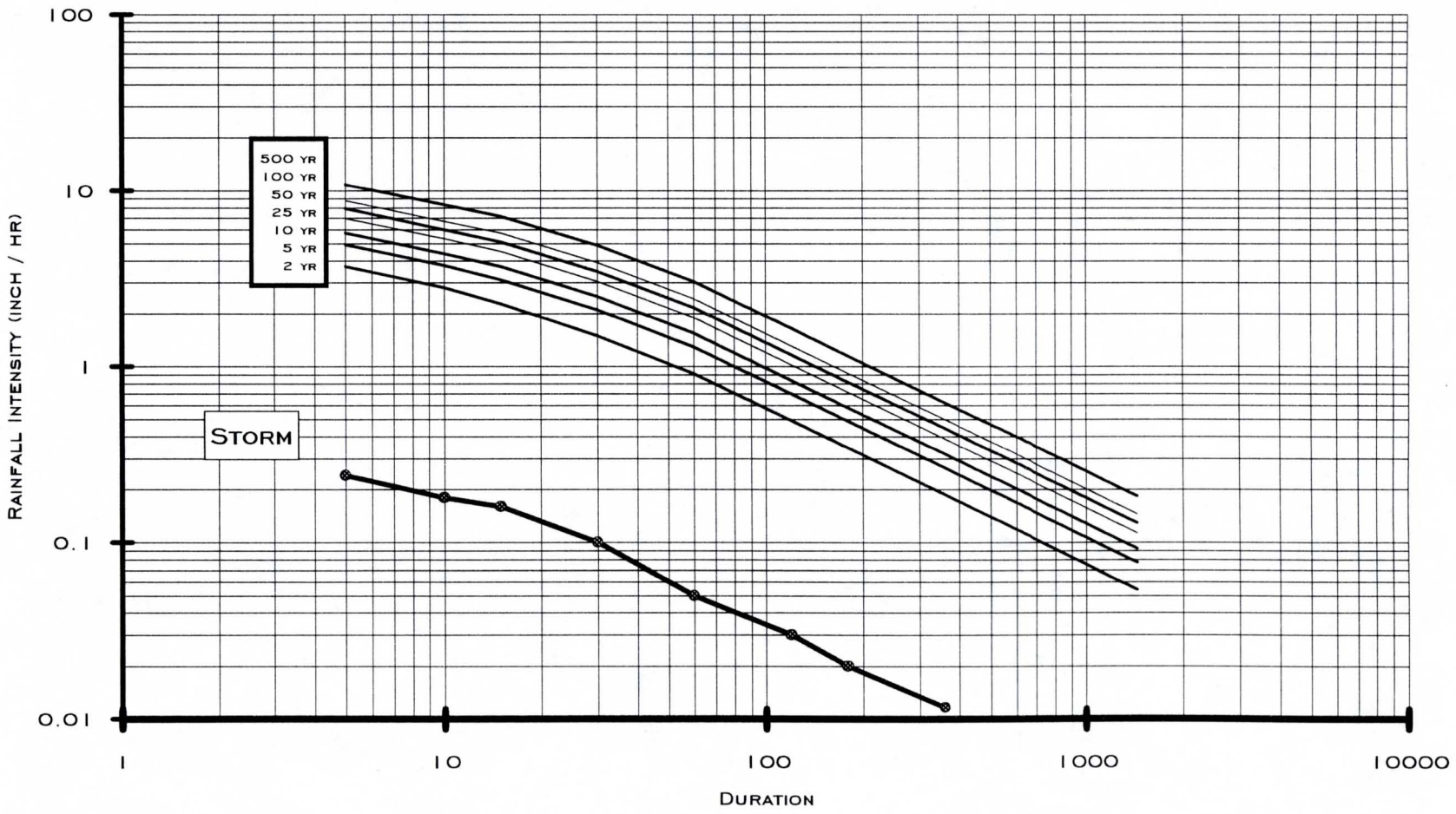
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Cumulative Flow Volume	Rain
5-May-95	0	0.178	0.016	700	0.016	700	0
6-May-95	0	0.001	0	0	0.008	700	0
7-May-95	0	0.305	0.032	2790	0.016	3490	0.07
8-May-95	0	0	0	0	0.012	3490	0

Mesa 1: Horne and Sixth Street

7 May 1995



MESA 1 - HORNE AND SIXTH
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 5/7/95



Mesa 1: Horne and Sixth Street - 8/19/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0001
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=63 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 6:18 PM 19AUG95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 70 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 1000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=036.00 IN., ROUGHNESS=.013, SLOPE=0.29/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:12 AM 21APR95

SAMPLE TAKEN

001-01	6:19 PM	19-Aug-95 011-04	7:02 PM	19-Aug-95 020-06	8:01 PM	19-Aug-95
002-01	6:23 PM	19-Aug-95 012-04	7:07 PM	19-Aug-95 021-07	8:11 PM	19-Aug-95
003-02	6:27 PM	19-Aug-95 013-05	7:12 PM	19-Aug-95 022-07	8:20 PM	19-Aug-95
004-02	6:30 PM	19-Aug-95 014-05	7:17 PM	19-Aug-95 023-07	8:29 PM	19-Aug-95
005-03	6:37 PM	19-Aug-95 015-05	7:22 PM	19-Aug-95 024-07	8:37 PM	19-Aug-95
006-03	6:41 PM	19-Aug-95 016-05	7:29 PM	19-Aug-95 025-08	8:46 PM	19-Aug-95
007-03	6:45 PM	19-Aug-95 017-06	7:36 PM	19-Aug-95 026-08	8:54 PM	19-Aug-95
008-03	6:49 PM	19-Aug-95 018-06	7:43 PM	19-Aug-95 027-08	9:03 PM	19-Aug-95
009-04	6:53 PM	19-Aug-95 019-06	7:51 PM	19-Aug-95 028-08	9:12 PM	19-Aug-95
010-04	6:57 PM	19-Aug-95				

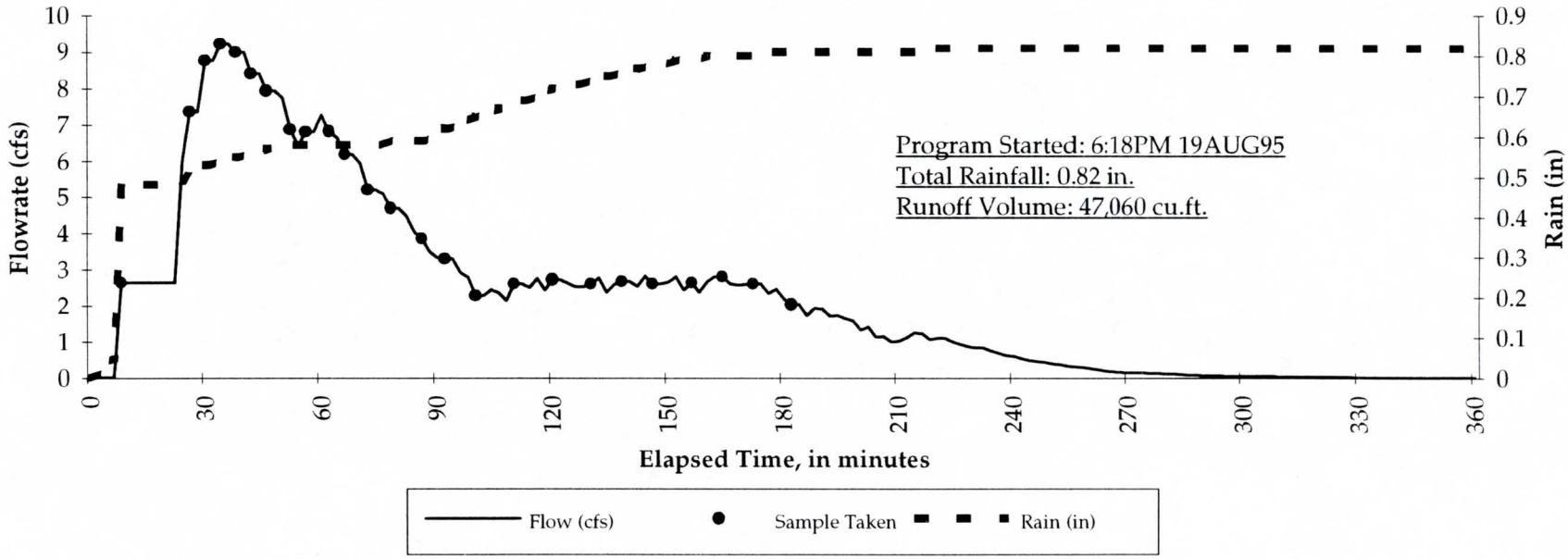
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 6:18 PM 19AUG95

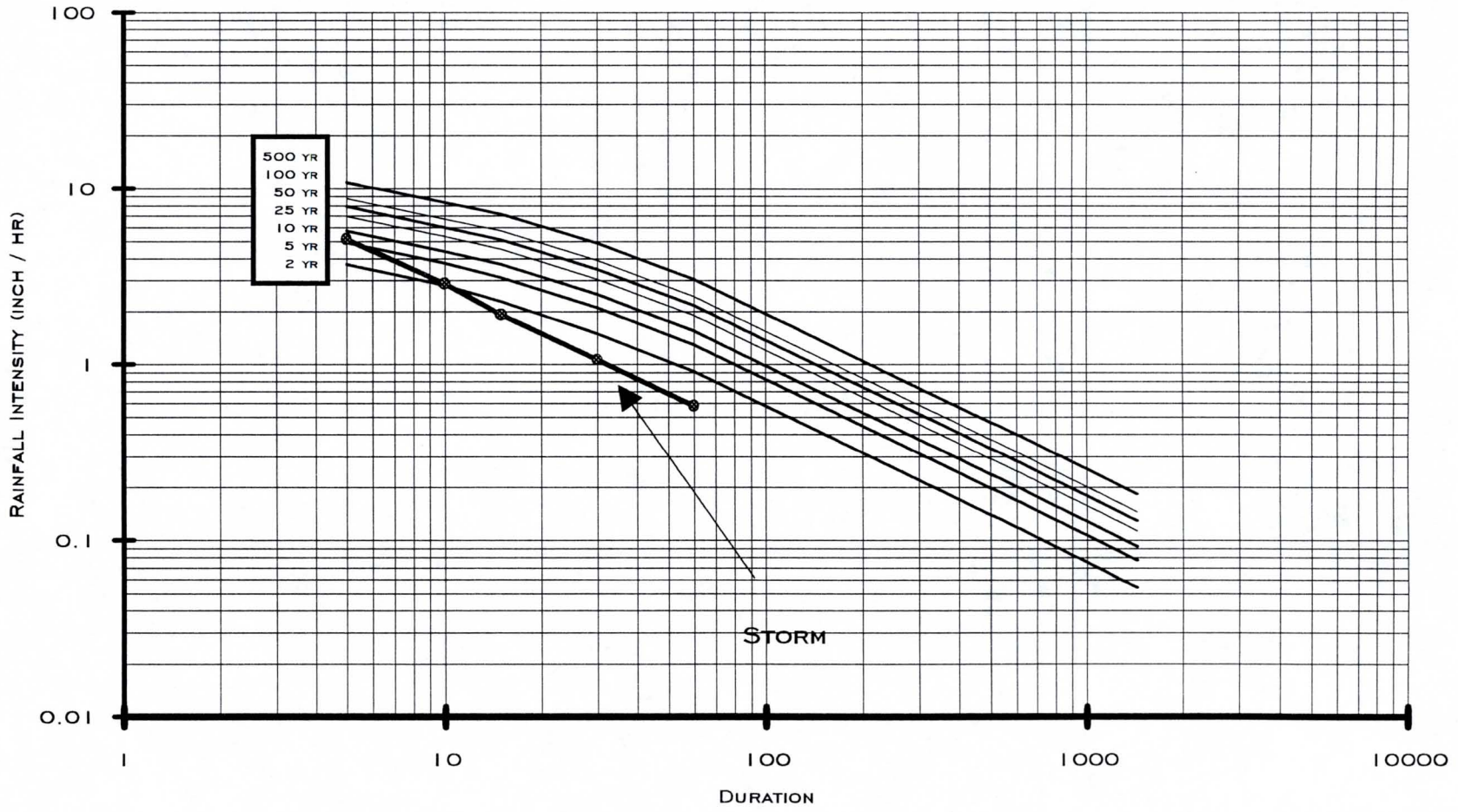
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Total Volume	Cum Avg Daily Flow Rate	Cumulative Total Volume	Rain
17-Aug-95	0.004	0.011	0.007	320	0.007	320	0
18-Aug-95	0.002	0.028	0.008	690	0.007	1020	0
19-Aug-95	0.003	9.222	0.571	49320	0.195	50340	0.82
20-Aug-95	0.001	5.578	0.269	23270	0.214	73610	0.36
21-Aug-95	0.001	1.361	0.035	3030	0.178	76650	0
22-Aug-95	0.001	0.002	0.001	30	0.149	76680	0

Mesa 1: Horne and Sixth

19 August 1995



MESA 1 - HORNE AND SIXTH
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 8/19/95



Mesa 1: Horne and Sixth Street - 9/7/95
SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0001
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=63 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 10:06 PM 6SEP95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 70 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 1000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 475 ML
1 INTAKE RINSE
2 INTAKE FAULTS
MANNING FORMULA: I.D.=036.00 IN., ROUGHNESS=.013, SLOPE=0.29/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:12 AM 21APR95

SAMPLE TAKEN

001-01	10:07 PM	6-Sep-95 011-04	12:51 AM	7-Sep-95 020-06	2:15 AM	7-Sep-95
002-01	10:10 PM	6-Sep-95 012-04	1:04 AM	7-Sep-95 021-07	2:21 AM	7-Sep-95
003-02	10:14 PM	6-Sep-95 013-05	1:16 AM	7-Sep-95 022-07	2:27 AM	7-Sep-95
004-02	10:18 PM	6-Sep-95 014-05	1:28 AM	7-Sep-95 023-07	2:33 AM	7-Sep-95
005-03	10:42 PM	6-Sep-95 015-05	1:38 AM	7-Sep-95 024-07	2:39 AM	7-Sep-95
006-03	11:00 PM	6-Sep-95 016-05	1:48 AM	7-Sep-95 025-08	2:46 AM	7-Sep-95
007-03	11:22 PM	6-Sep-95 017-06	1:55 AM	7-Sep-95 026-08	2:53 AM	7-Sep-95
008-03	11:48 PM	6-Sep-95 018-06	2:02 AM	7-Sep-95 027-08	3:01 AM	7-Sep-95
009-04	12:07 AM	7-Sep-95 019-06	2:09 AM	7-Sep-95 028-08	3:09 AM	7-Sep-95
010-04	12:38 AM	7-Sep-95				

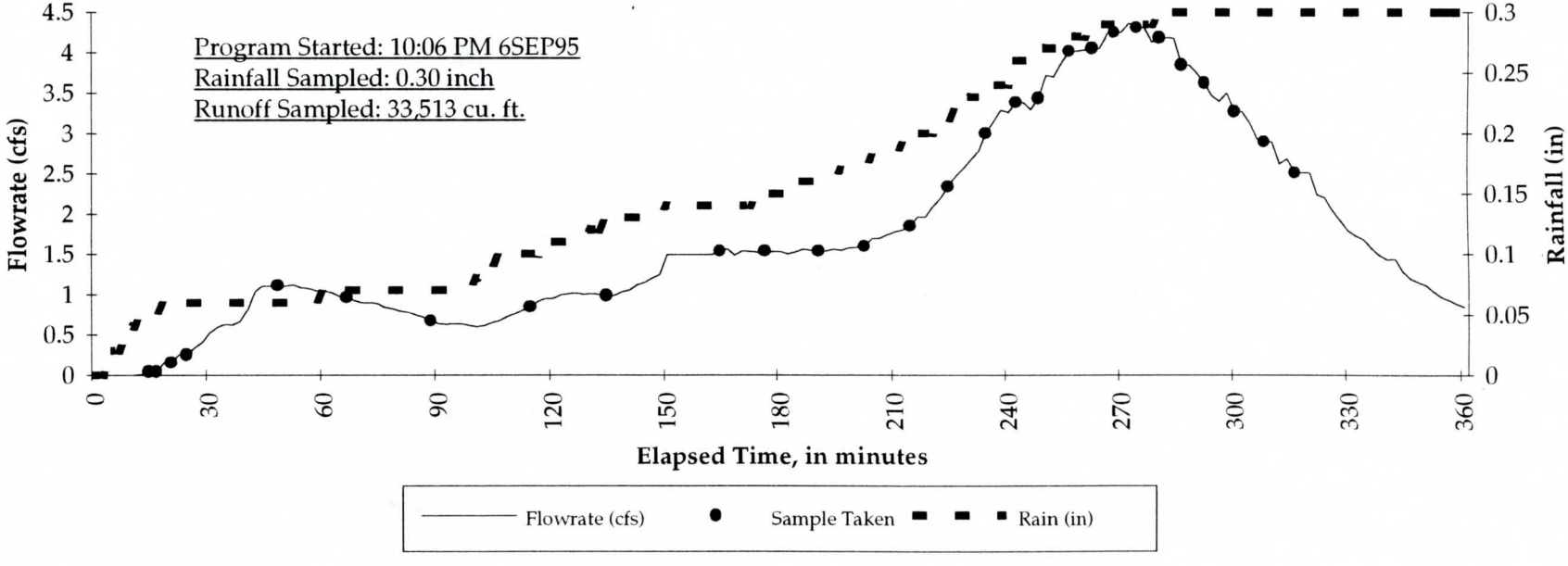
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 10:06 PM 6SEP95

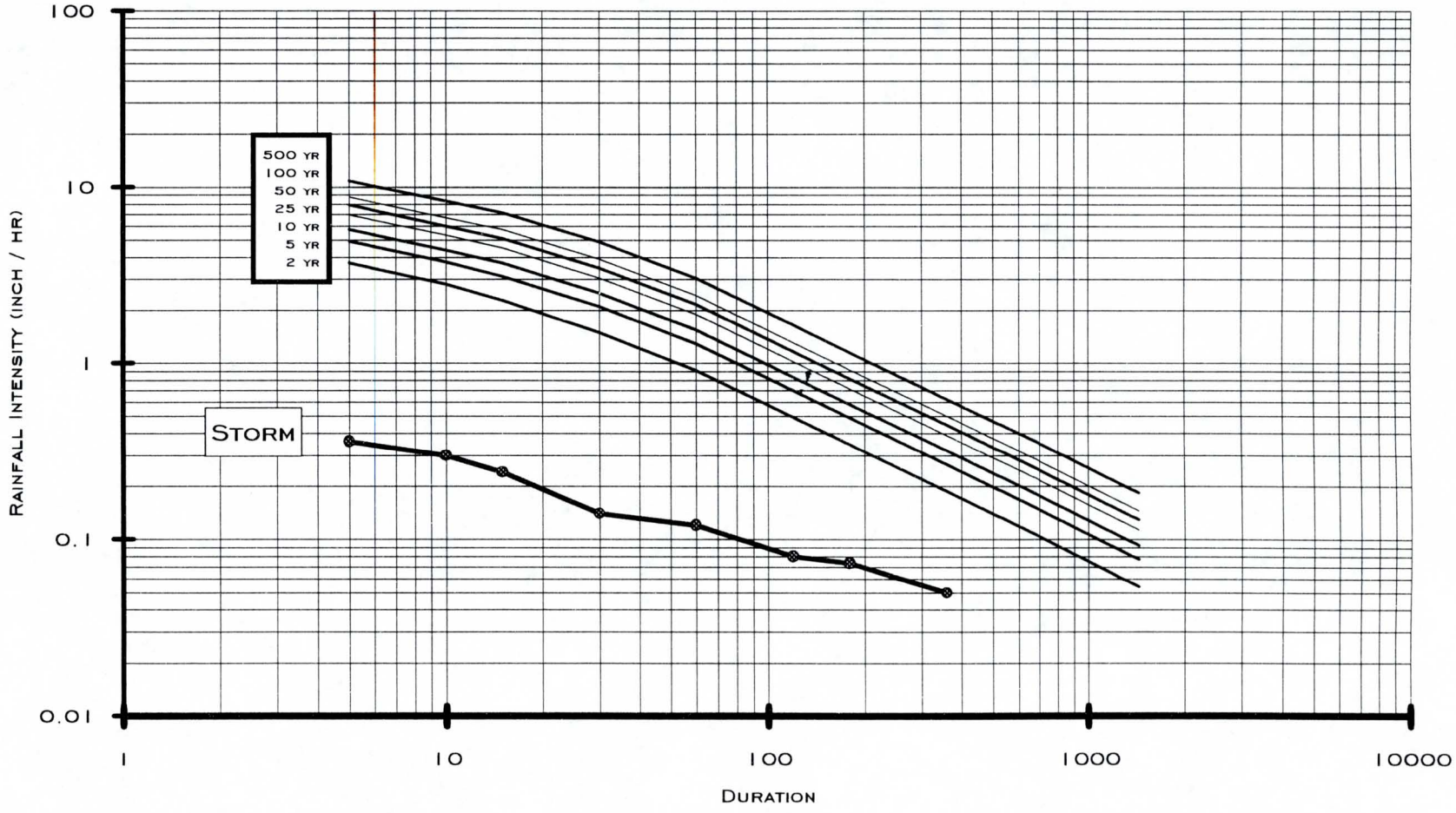
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Cumulative Total Volume	Rainfall
31-Aug-95	0.001	0.171	0.015	680	0.015	680	0
1-Sep-95	0.001	0.002	0.001	80	0.008	760	0
2-Sep-95	0.001	0.002	0.001	90	0.006	850	0
3-Sep-95	0.001	0.002	0.001	90	0.004	940	0
4-Sep-95	0.001	0.002	0.001	80	0.004	1030	0
5-Sep-95	0.001	0.001	0.001	80	0.003	1120	0
6-Sep-95	0.001	1.119	0.059	5100	0.011	6220	0.11
7-Sep-95	0.022	4.363	1.265	35000	0.168	41220	0.19

Mesa 1: Horne and Sixth

7 September 1995



MESA 1 - HORNE AND SIXTH
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 9/7/95



Mesa 1: Sixth Street and Horne - 11/1/95
SIGMA STREAMLINE REV: USW-1.04
SITE I.D.#: 0001
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=63 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
DEPTH SENSOR SERIES 940/950 SERIES
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 5 PSI
PROGRAM STARTED: 11:02 PM 1NOV95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 1000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=036.00 IN., ROUGHNESS=.013, SLOPE=0.29/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED: 2:22 PM 23AUG95

SAMPLE TAKEN

001-01	11:03 PM	1-Nov-95 011-04	11:43 PM	1-Nov-95 020-06	12:20 AM	2-Nov-95
002-01	11:06 PM	1-Nov-95 012-04	11:47 PM	1-Nov-95 021-07	12:25 AM	2-Nov-95
003-02	11:09 PM	1-Nov-95 013-05	11:51 PM	1-Nov-95 022-07	12:30 AM	2-Nov-95
004-02	11:12 PM	1-Nov-95 014-05	11:55 PM	1-Nov-95 023-07	12:36 AM	2-Nov-95
005-03	11:18 PM	1-Nov-95 015-05	11:59 PM	1-Nov-95 024-07	12:42 AM	2-Nov-95
006-03	11:23 PM	1-Nov-95 016-05	12:03 AM	2-Nov-95 025-08	12:48 AM	2-Nov-95
007-03	11:27 PM	1-Nov-95 017-06	12:07 AM	2-Nov-95 026-08	12:53 AM	2-Nov-95
008-03	11:31 PM	1-Nov-95 018-06	12:11 AM	2-Nov-95 027-08	12:58 AM	2-Nov-95
009-04	11:35 PM	1-Nov-95 019-06	12:15 AM	2-Nov-95 028-08	1:03 AM	2-Nov-95
010-04	11:39 PM	1-Nov-95				

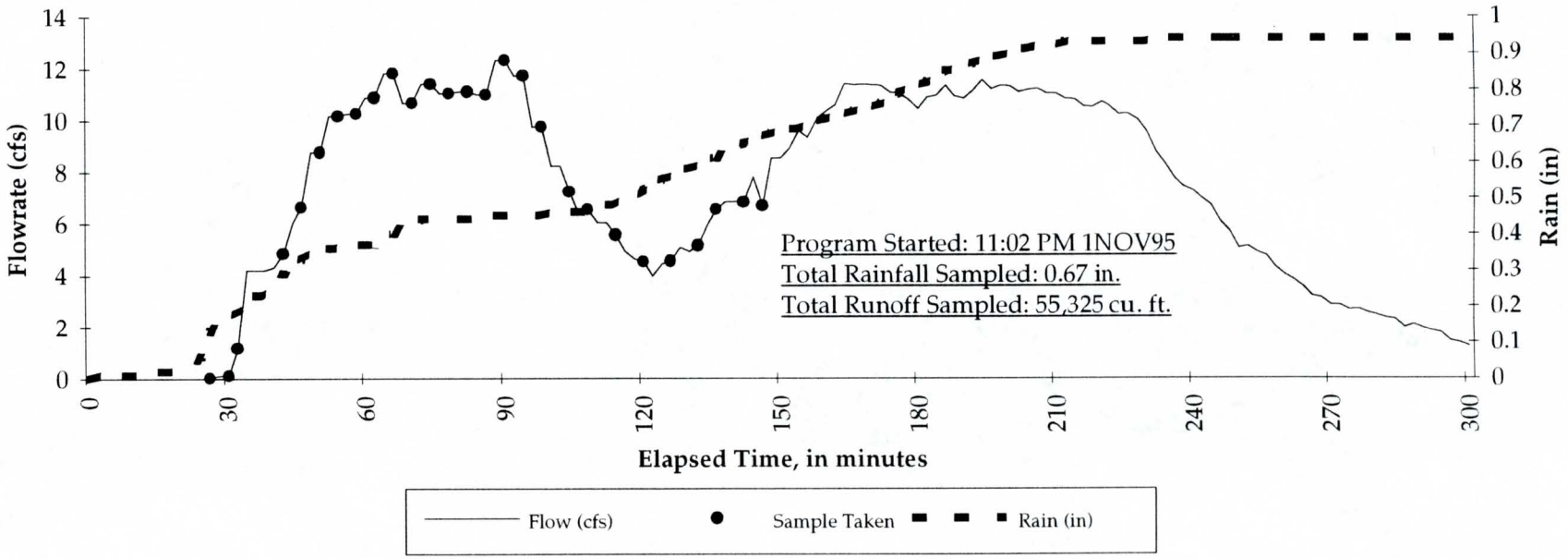
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 11:02 PM 1NOV95

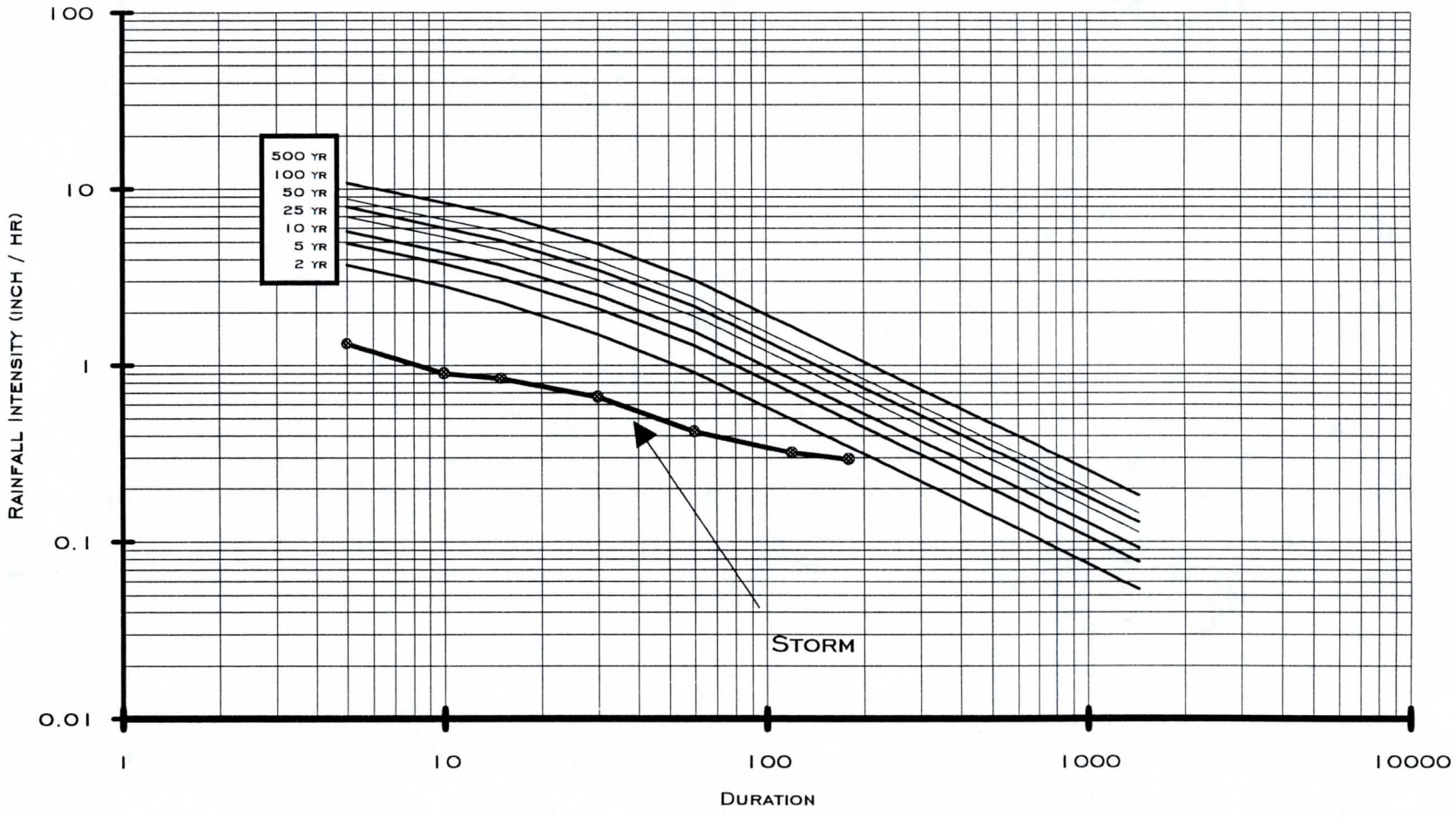
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Total Volume	Rain
31-Oct-95	0	0	0	0	0	0	0
1-Nov-95	0	11.806	0.316	27330	0.158	27330	0.44
2-Nov-95	0	12.306	3.007	99930	1.108	127260	0.5

Mesa 1: Sixth Street and Horne

1 November 1995



MESA 1 - HORNE AND SIXTH
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 11/1/95



Mesa 1: Horne and Sixth - 2/1/96

SIGMA STREAMLINE REV: USW-1.04
SITE I.D.#: 0001
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=63 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
DEPTH SENSOR SERIES 940/950 SERIES
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 5 PSI
PROGRAM STARTED: 1:40 AM 1FEB96
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 1000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=036.00 IN., ROUGHNESS=.013, SLOPE=0.29/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED: 2:22 PM 23•ª µ ´NÍ¡Ã

SAMPLE TAKEN

001-01	1:41 AM	1-Feb-96 011-04	2:59 AM	1-Feb-96 020-06	1:22 PM	1-Feb-96
002-01	1:44 AM	1-Feb-96 012-04	3:15 AM	1-Feb-96 021-07	1:26 PM	1-Feb-96
003-02	1:47 AM	1-Feb-96 013-05	4:18 AM	1-Feb-96 022-07	1:30 PM	1-Feb-96
004-02	1:50 AM	1-Feb-96 014-05	12:50 PM	1-Feb-96 023-07	1:34 PM	1-Feb-96
005-03	1:59 AM	1-Feb-96 015-05	12:56 PM	1-Feb-96 024-07	1:38 PM	1-Feb-96
006-03	2:08 AM	1-Feb-96 016-05	1:02 PM	1-Feb-96 025-08	1:42 PM	1-Feb-96
007-03	2:16 AM	1-Feb-96 017-06	1:08 PM	1-Feb-96 026-08	1:46 PM	1-Feb-96
008-03	2:26 AM	1-Feb-96 018-06	1:13 PM	1-Feb-96 027-08	1:51 PM	1-Feb-96
009-04	2:36 AM	1-Feb-96 019-06	1:18 PM	1-Feb-96 028-08	1:56 PM	1-Feb-96
010-04	2:47 AM	1-Feb-96				

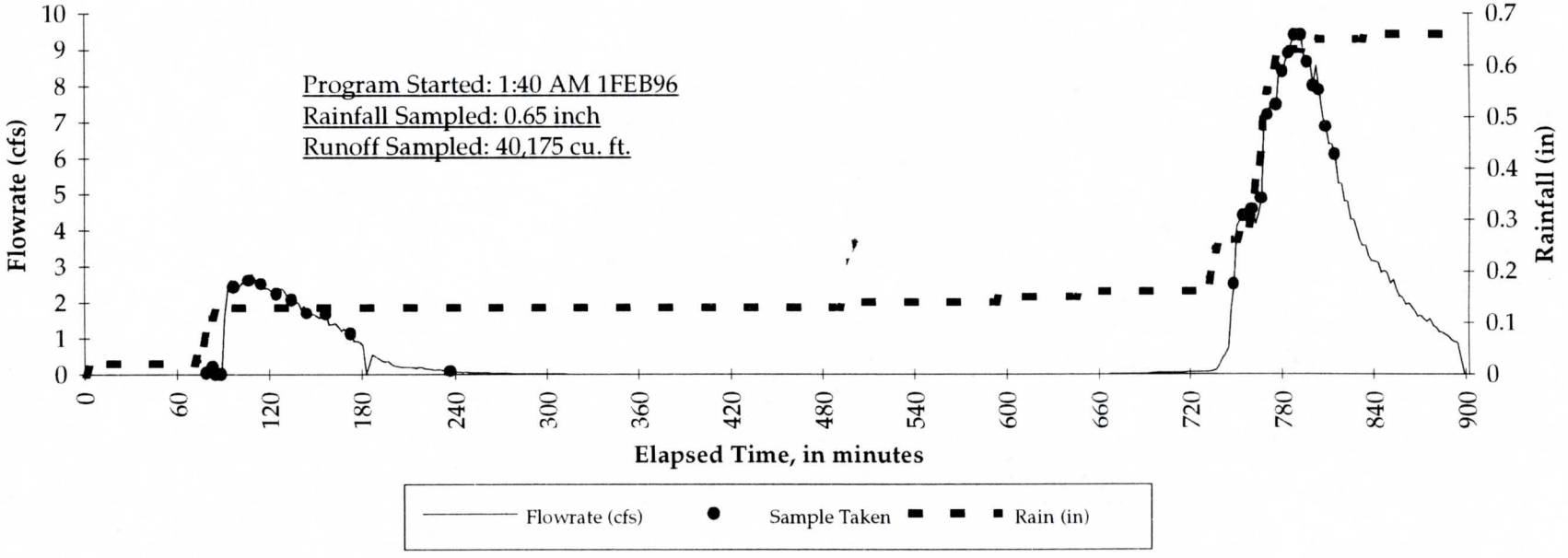
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 1:40 AM 1FEB96

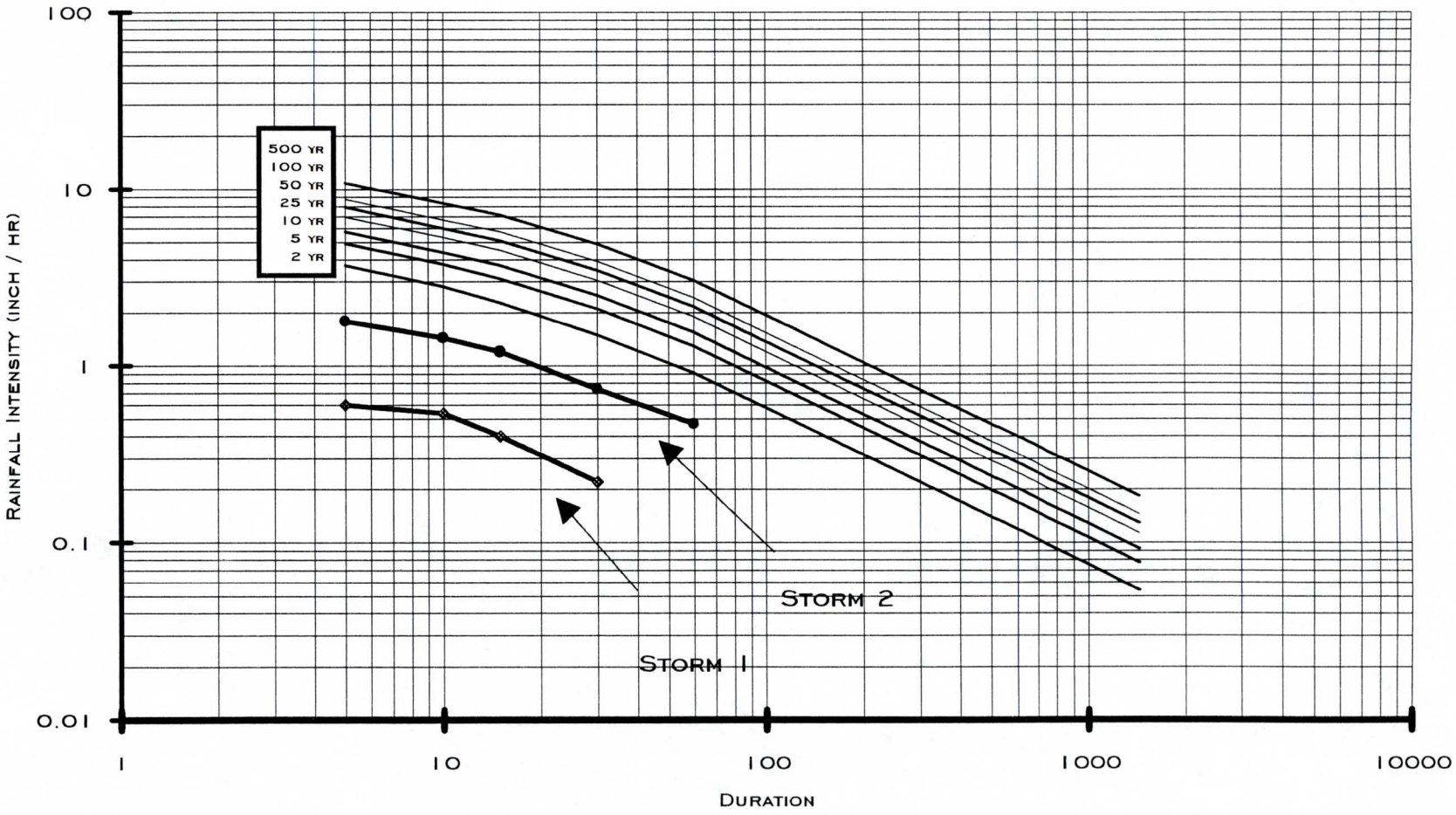
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Total Volume	Rainfall
30-Jan-96	0	0	0	0	0	0	0
31-Jan-96	0	0.419	0.018	1590	0.009	1590	0
1-Feb-96	0	9.485	0.653	56390	0.224	57990	0.69
2-Feb-96	0	0.155	0.011	360	0.17	58350	0

Mesa 1: Horne and Sixth Street

1 February 1996



MESA 1 - HORNE AND SIXTH
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 2/1/96



MESA 2

Mesa 2: Broadway and Lindsay - 3/5/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0002
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=58 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: VERTICAL
PROGRAM STARTED: 7:58 PM 5MAR95
COLLECTED 0 SAMPLES IN BOTTLE 5
4 REMAINING
3 BOTTLES TO GO
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 1000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=072.00 IN., ROUGHNESS=.013, SLOPE=0.11/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED: 5:49 AM 16FEB95

		SAMPLE TAKEN				
001-01	7:59 PM	5-Mar-95 005-03	11:29 PM	5-Mar-95 009-04	5:38 AM	6-Mar-95
002-01	8:02 PM	5-Mar-95 006-03	3:05 AM	6-Mar-95 010-04	6:34 AM	6-Mar-95
003-02	8:05 PM	5-Mar-95 007-03	4:12 AM	6-Mar-95 011-04	8:15 AM	6-Mar-95
004-02	8:08 PM	5-Mar-95 008-03	4:57 AM	6-Mar-95 012-04	10:14 AM	6-Mar-95

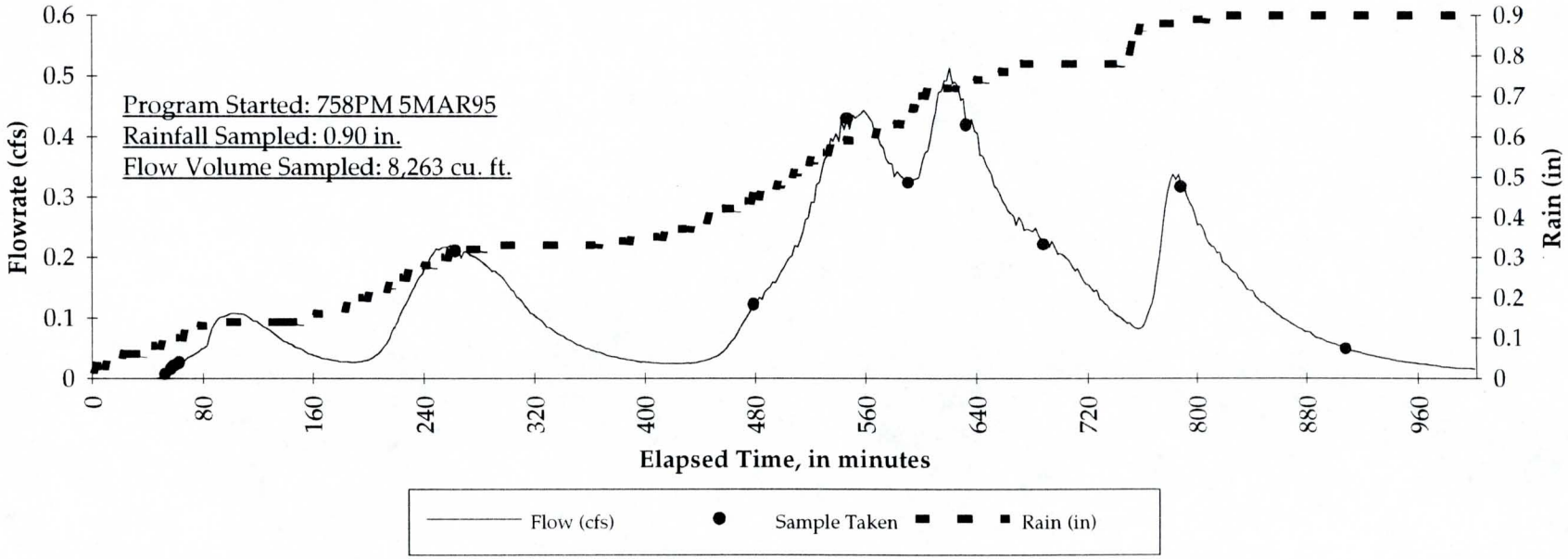
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 7:58 PM 5MAR95

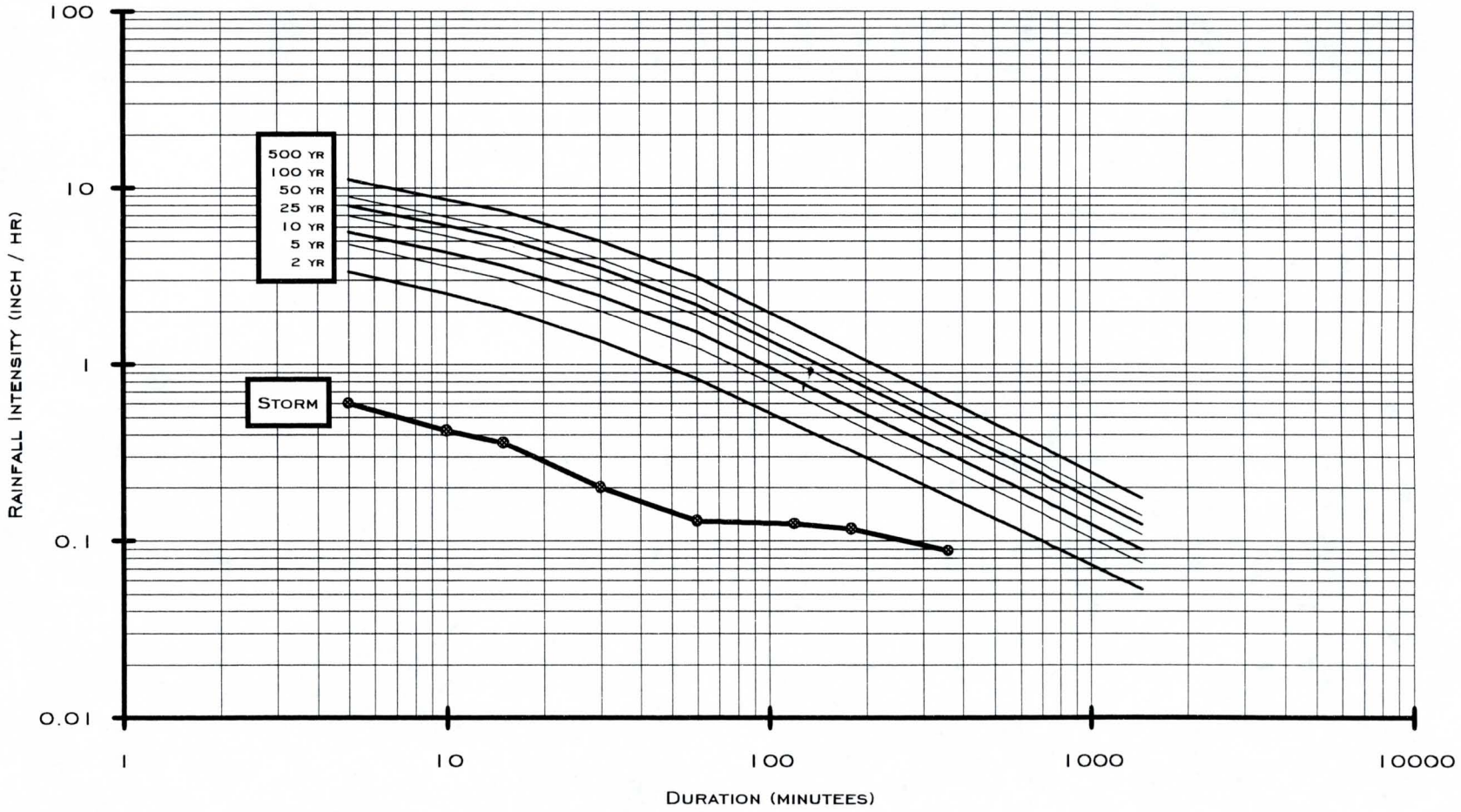
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Flow Total	Cum Avg Daily Flow	Cumulative Flow Volume	Rain
5-Mar-95	0	0.22	0.016	1350	0.004	1350	0.33
6-Mar-95	0.001	0.513	0.083	7150	0.02	8510	0.57
7-Mar-95	0	0.001	0.001	10	0.017	8520	0

Mesa 2: Broadway and Lindsay

5 March 1995



MESA 2 - BROADWAY AND LINDSAY
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 3/5/95



Mesa 2: Broadway and Lindsay - 3/11/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0002
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=58 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: VERTICAL
PROGRAM STARTED: 12:54 PM 11MAR95
COLLECTED 2 SAMPLES IN BOTTLE 3
2 REMAINING
5 BOTTLES TO GO
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 1000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=072.00 IN., ROUGHNESS=.013, SLOPE=0.11/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED: 5:49 AM 16FEB95

		SAMPLE TAKEN				
001-01	12:55 PM	11-Mar-95 003-02	1:01 PM	11-Mar-95 005-03	9:13 PM	11-Mar-95
002-01	12:58 PM	11-Mar-95 004-02	1:04 PM	11-Mar-95 006-03	9:49 PM	11-Mar-95

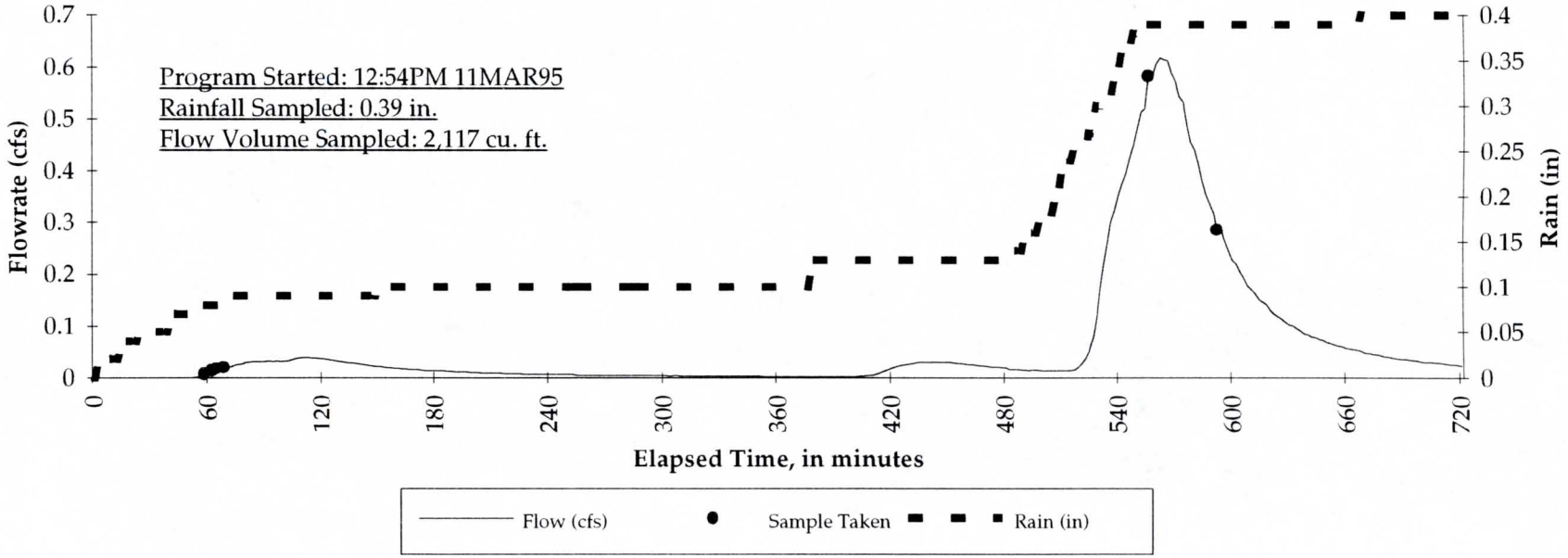
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 12:54 PM 11MAR95

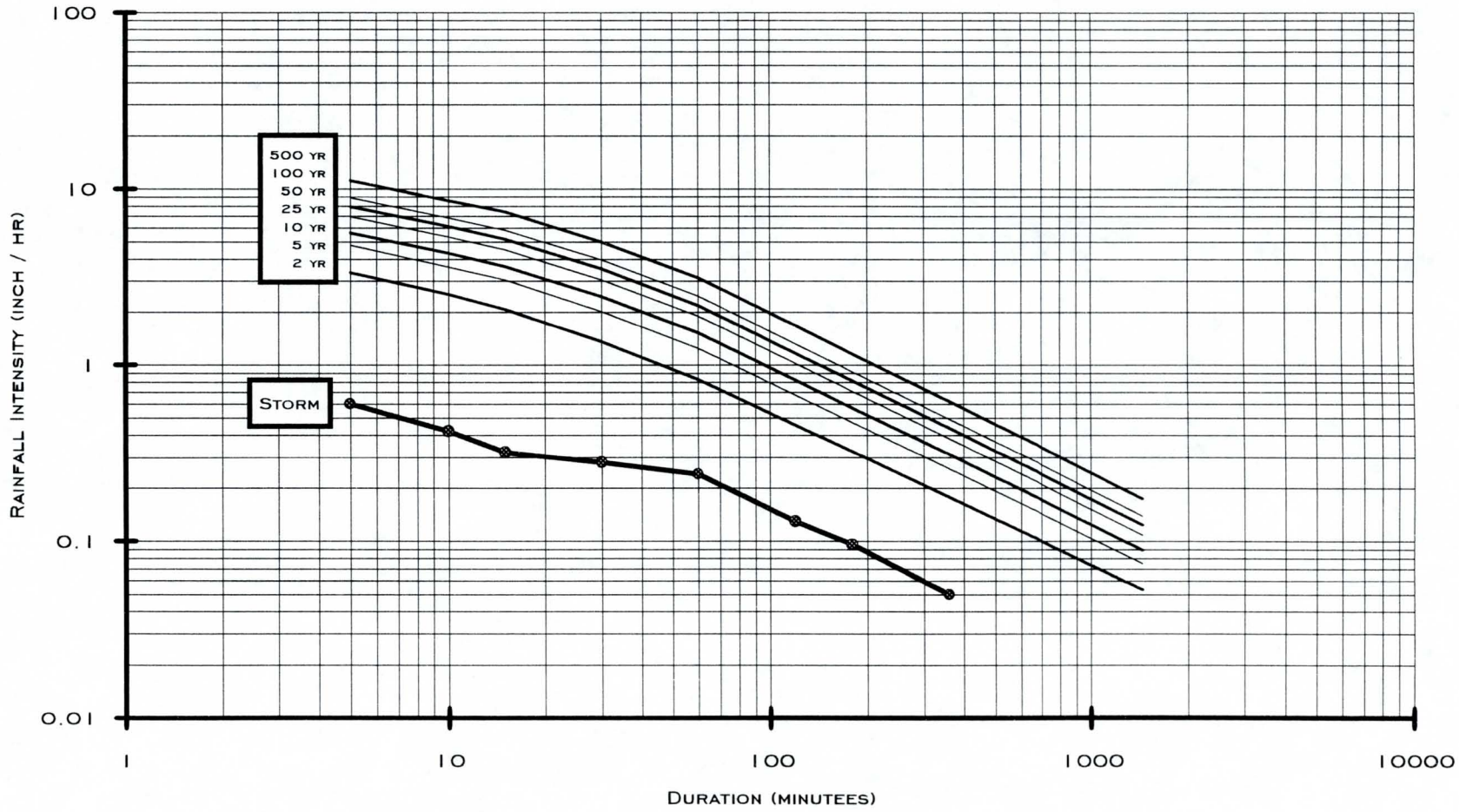
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Flow Total	Cum Avg Daily Flow Rate	Cumulative Flow Total	Rain
9-Mar-95	0	0	0	0	0	0	0
10-Mar-95	0	0	0	0	0	0	0
11-Mar-95	0	0.618	0.032	2760	0.011	2760	0.4
12-Mar-95	0	0.023	0.002	190	0.009	2960	0
13-Mar-95	0	0.001	0	10	0.007	2970	0

Mesa 2: Broadway and Lindsay

11 March 1995



MESA 2 - BROADWAY AND LINDSAY
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 3/11/95



Mesa 2: Broadway and Lindsay - 5/7/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0002
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=58 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 4:49 AM 7MAY95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 2000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML; AUTO CALIBRATE
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=072.00 IN., ROUGHNESS=.013, SLOPE=0.11/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED: 8:23 AM 21APR95

	SAMPLE TAKEN					
001-01	4:50 AM	7-May-95 011-04	9:18 AM	7-May-95 020-06	2:31 PM	7-May-95
002-01	4:53 AM	7-May-95 012-04	9:50 AM	7-May-95 021-07	3:08 PM	7-May-95
003-02	4:56 AM	7-May-95 013-05	10:23 AM	7-May-95 022-07	3:45 PM	7-May-95
004-02	4:59 AM	7-May-95 014-05	10:57 AM	7-May-95 023-07	4:22 PM	7-May-95
005-03	6:30 AM	7-May-95 015-05	11:32 AM	7-May-95 024-07	4:59 PM	7-May-95
006-03	6:55 AM	7-May-95 016-05	12:07 PM	7-May-95 025-08	5:36 PM	7-May-95
007-03	7:21 AM	7-May-95 017-06	12:42 PM	7-May-95 026-08	6:13 PM	7-May-95
008-03	7:48 AM	7-May-95 018-06	1:19 PM	7-May-95 027-08	6:50 PM	7-May-95
009-04	8:17 AM	7-May-95 019-06	1:55 PM	7-May-95 028-08	7:26 PM	7-May-95
010-04	8:47 AM	7-May-95				

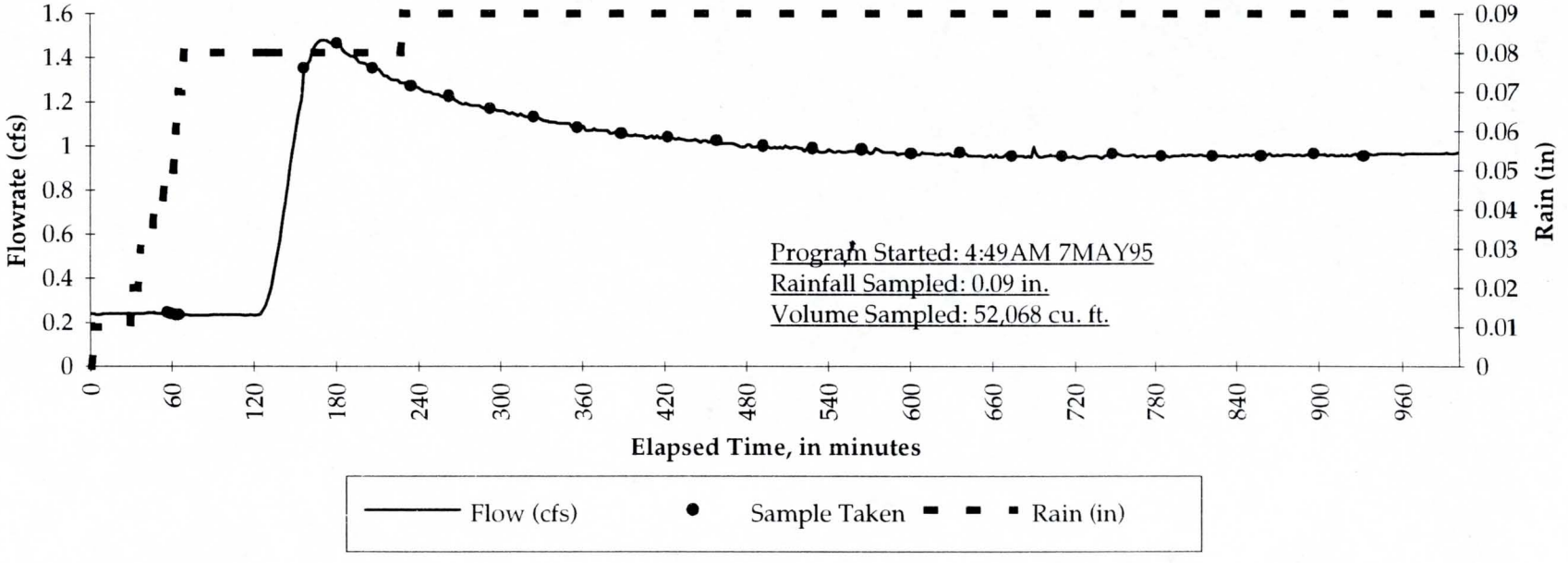
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 4:49 AM 7MAY95

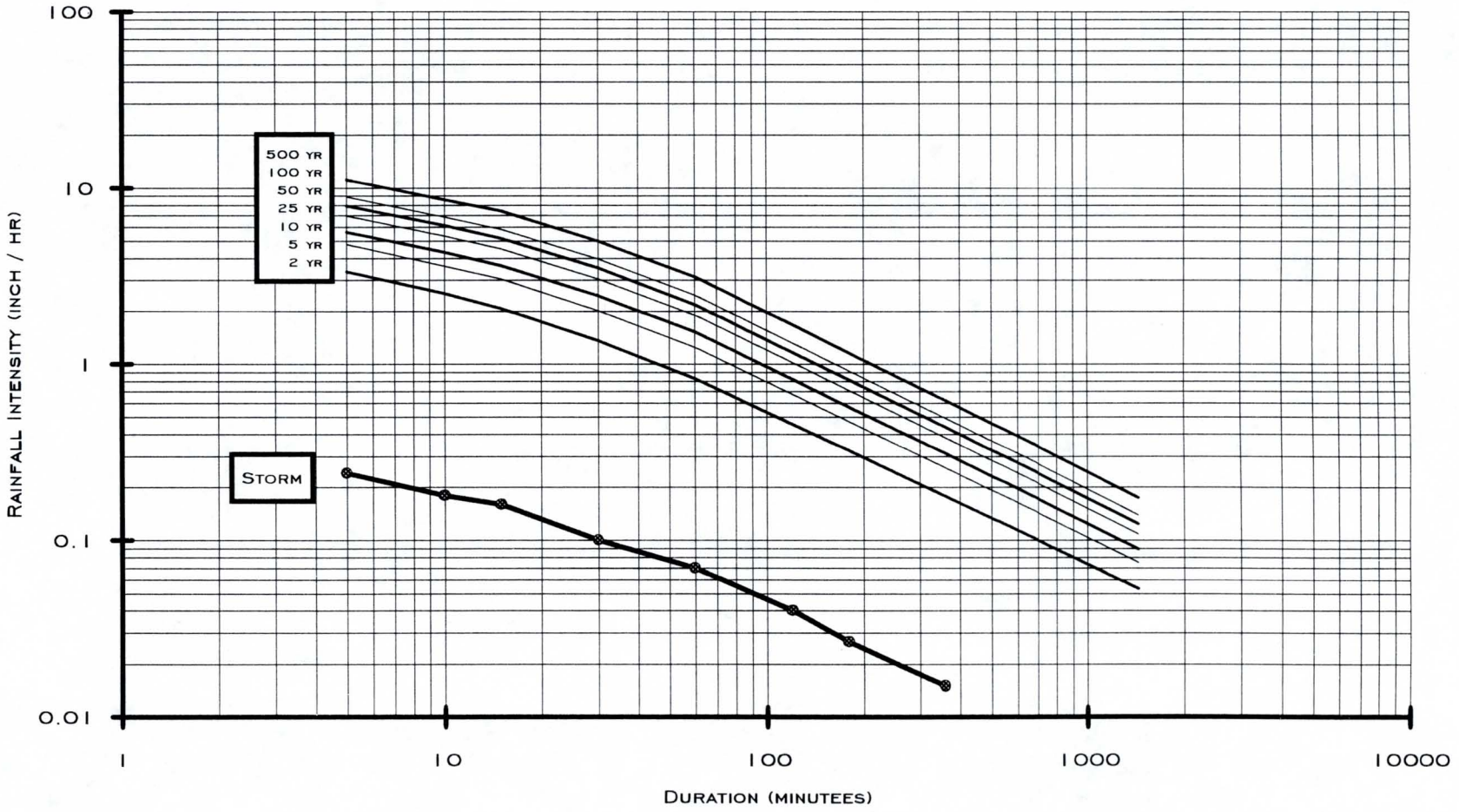
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Flow Total	Cum Avg Flow Rate	Cumulative Flow Total	Rain
5-May-95	0.232	0.254	0.243	10570	0.243	10570	0
6-May-95	0.219	0.257	0.239	20610	0.241	31180	0
7-May-95	0.23	1.479	0.824	71160	0.435	102340	0.09
8-May-95	0.921	0.977	0.96	28910	0.566	131250	0

Mesa 2: Broadway and Lindsay

7 May 1995



MESA 2 - BROADWAY AND LINDSAY
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 5/7/95



Mesa 2: Broadway and Lindsay - 7/12/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0002
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=58 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 9:03 PM 12JUL95
COLLECTED 3 SAMPLES IN BOTTLE 7
1 REMAINING
1 BOTTLE TO GO
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 70 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 2000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML; AUTO CALIBRATE
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=072.00 IN., ROUGHNESS=.013, SLOPE=0.11/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED: 8:23 AM 21APR95

	SAMPLE TAKEN					
001-01	9:04 PM	12-Jul-95 009-04	11:38 PM	12-Jul-95 017-06	3:49 AM	13-Jul-95
002-01	9:07 PM	12-Jul-95 010-04	12:06 AM	13-Jul-95 018-06	4:23 AM	13-Jul-95
003-02	9:10 PM	12-Jul-95 011-04	12:35 AM	13-Jul-95 019-06	4:58 AM	13-Jul-95
004-02	9:13 PM	12-Jul-95 012-04	1:06 AM	13-Jul-95 020-06	5:32 AM	13-Jul-95
005-03	9:33 PM	12-Jul-95 013-05	1:37 AM	13-Jul-95 021-07	6:06 AM	13-Jul-95
006-03	9:52 PM	12-Jul-95 014-05	2:10 AM	13-Jul-95 022-07	6:41 AM	13-Jul-95
007-03	10:46 PM	12-Jul-95 015-05	2:42 AM	13-Jul-95 023-07	7:15 AM	13-Jul-95
008-03	11:11 PM	12-Jul-95 016-05	3:16 AM	13-Jul-95		

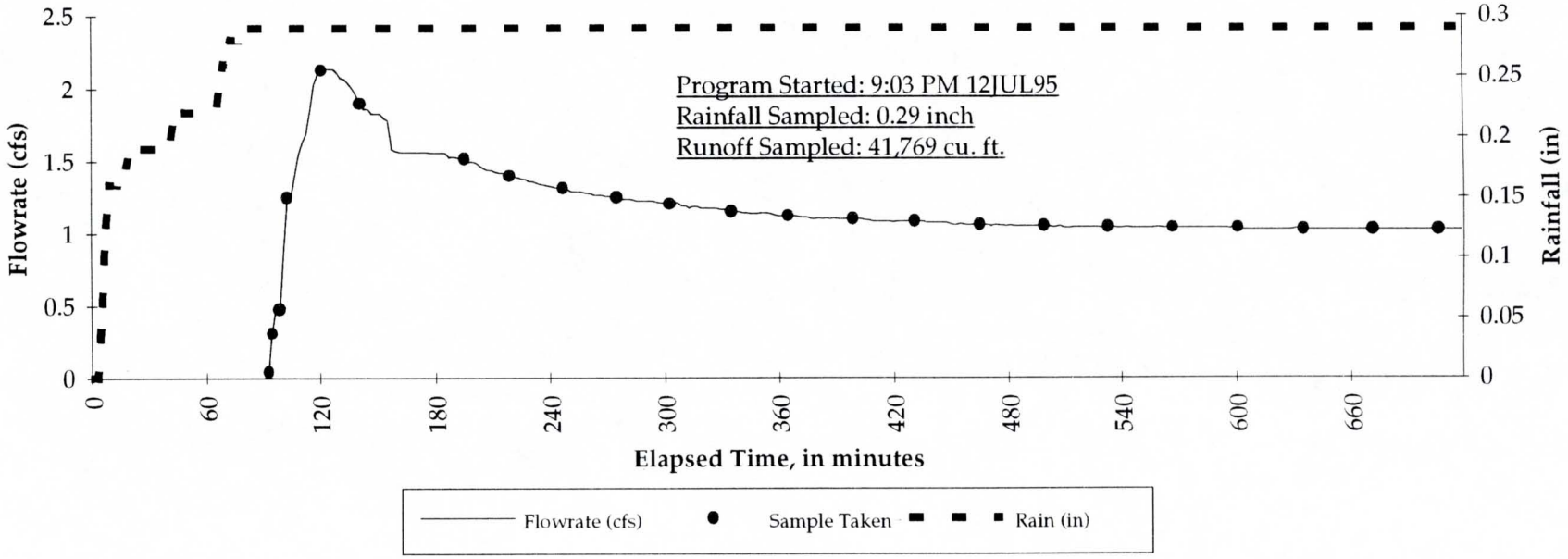
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 9:03 PM 12JUL95

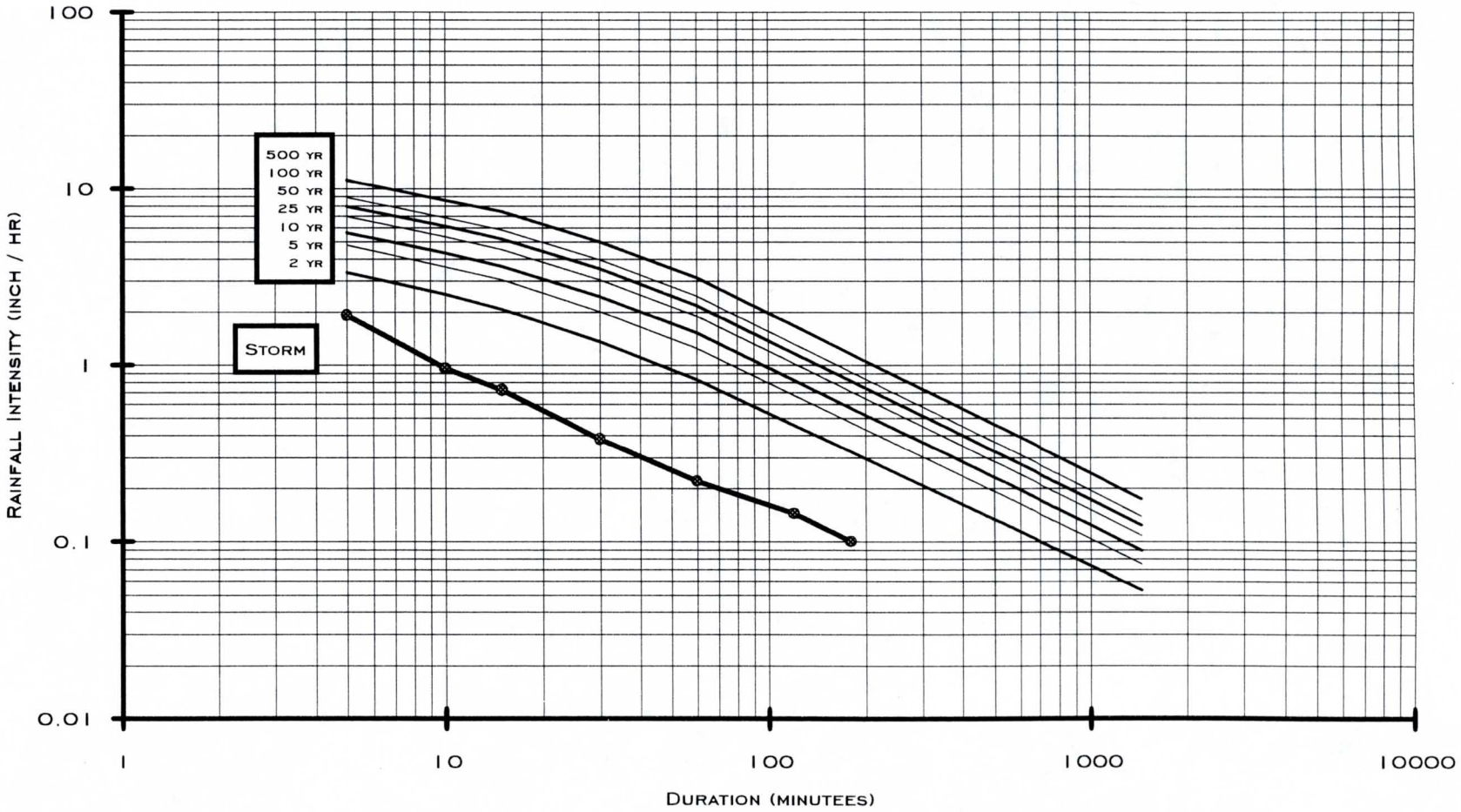
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Cumulative Total Volume	Rain
5-Jul-95	0	0.004	0	0	0	0	0
6-Jul-95	0	0.004	0	0	0	0	0
7-Jul-95	0	0.008	0	0	0	10	0
8-Jul-95	0	0	0	0	0	10	0
9-Jul-95	0	0	0	0	0	10	0
10-Jul-95	0	0.004	0	0	0	10	0
11-Jul-95	0	0.004	0	0	0	10	0
12-Jul-95	0	2.133	0.156	13150	0.019	13160	0.29
13-Jul-95	1.024	1.254	1.076	29550	0.137	42720	0

Mesa 2: Broadway and Lindsay

12 July 1995



MESA 2 - BROADWAY AND LINDSAY
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 7/12/95



Mesa 2: Broadway and Lindsay - 8/19/95

SIGMA DTU REV: 4.01
SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0002
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=58 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 6:31 PM 19AUG95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 70 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 2000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=072.00 IN., ROUGHNESS=.013, SLOPE=0.11/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED: 8:23 AM 21APR95

	SAMPLE TAKEN					
001-01	6:32 PM	19-Aug-95 011-04	7:13 PM	19-Aug-95 020-06	8:13 PM	19-Aug-95
002-01	6:35 PM	19-Aug-95 012-04	7:17 PM	19-Aug-95 021-07	8:23 PM	19-Aug-95
003-02	6:39 PM	19-Aug-95 013-05	7:22 PM	19-Aug-95 022-07	8:33 PM	19-Aug-95
004-02	6:41 PM	19-Aug-95 014-05	7:27 PM	19-Aug-95 023-07	8:43 PM	19-Aug-95
005-03	6:49 PM	19-Aug-95 015-05	7:33 PM	19-Aug-95 024-07	8:52 PM	19-Aug-95
006-03	6:53 PM	19-Aug-95 016-05	7:39 PM	19-Aug-95 025-08	9:01 PM	19-Aug-95
007-03	6:57 PM	19-Aug-95 017-06	7:46 PM	19-Aug-95 026-08	9:10 PM	19-Aug-95
008-03	7:01 PM	19-Aug-95 018-06	7:54 PM	19-Aug-95 027-08	9:20 PM	19-Aug-95
009-04	7:05 PM	19-Aug-95 019-06	8:03 PM	19-Aug-95 028-08	9:31 PM	19-Aug-95
010-04	7:09 PM	19-Aug-95				

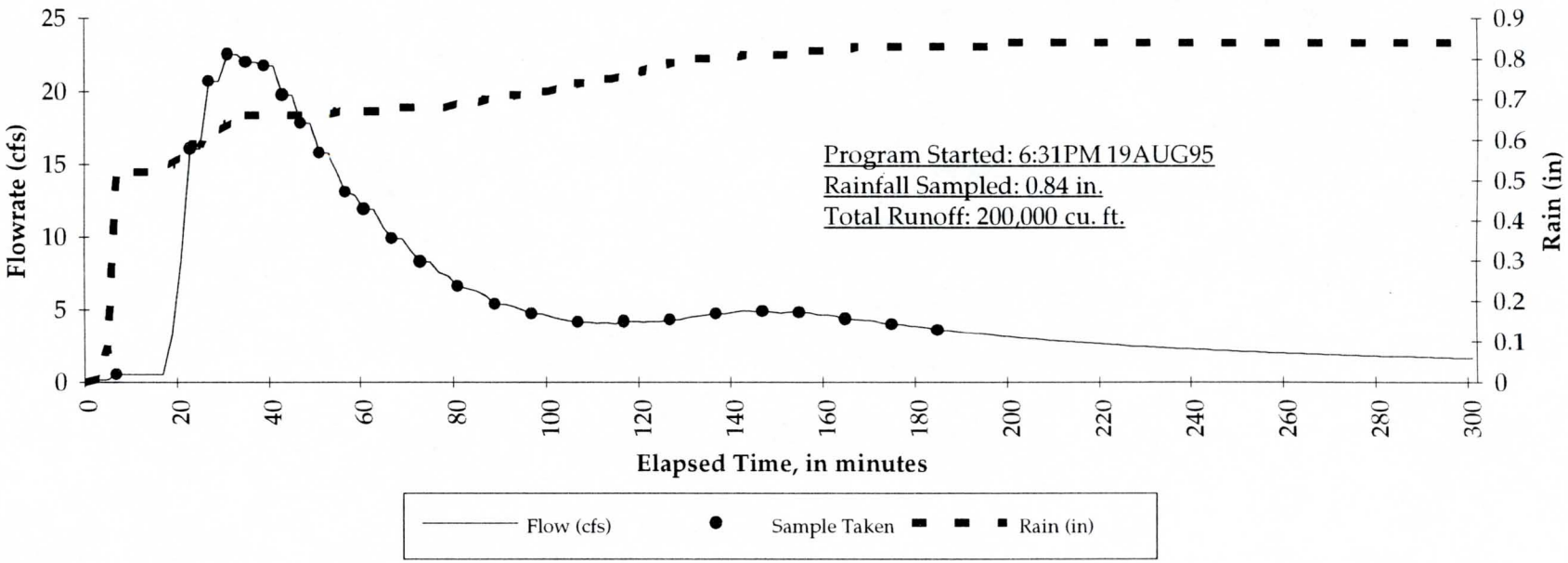
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 6:31 PM 19AUG95

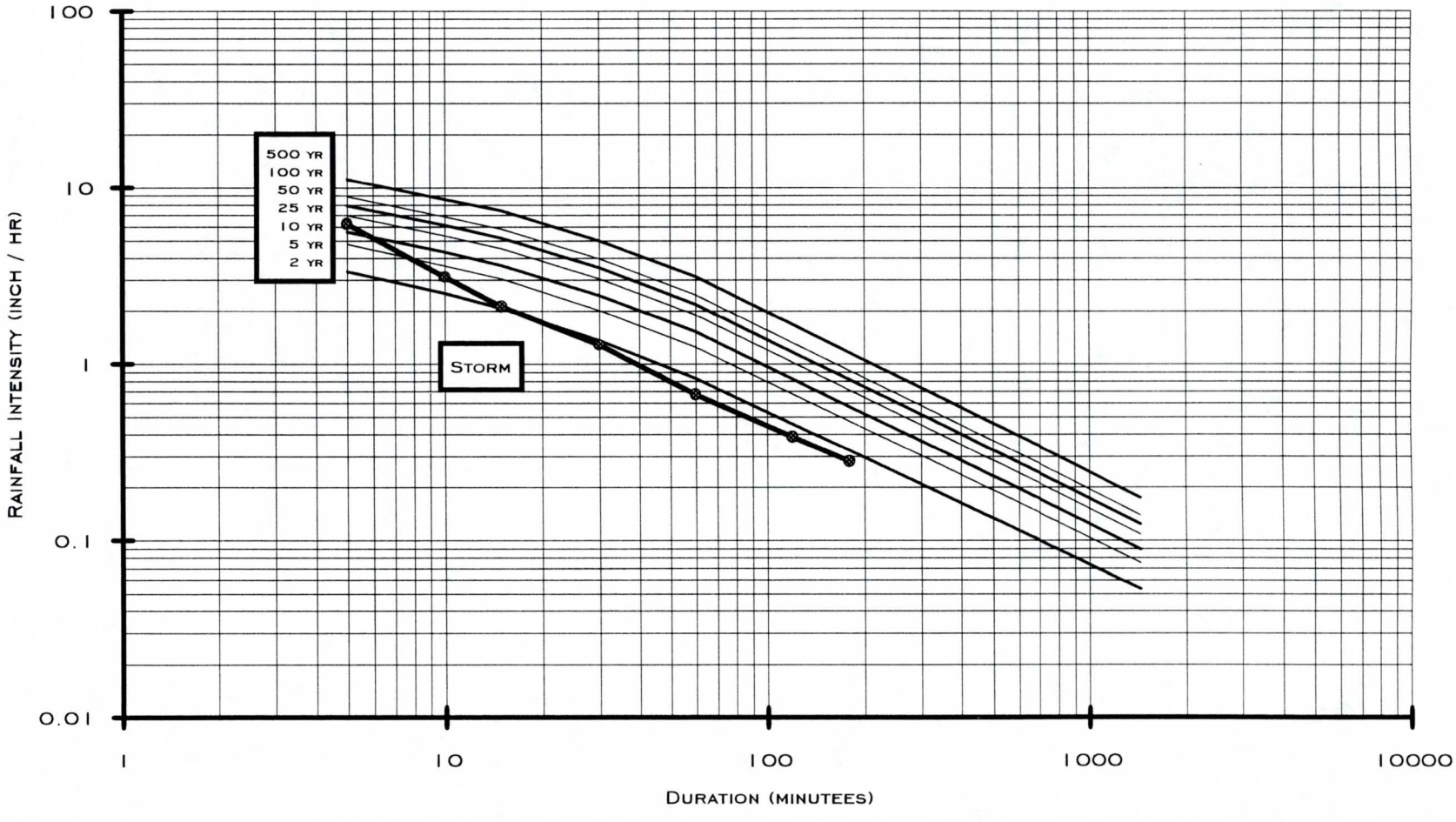
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Total Volume	Cum Avg Flow Rate	Cumulative Total Volume	Rain
17-Aug-95	0.281	0.352	0.309	14660	0.309	14660	0
18-Aug-95	0.199	0.285	0.241	20810	0.275	35480	0
19-Aug-95	0.161	22.516	1.341	115830	0.63	151320	0.84
20-Aug-95	0.939	31.457	2.457	212270	1.087	363580	0.63
21-Aug-95	0.957	11.359	1.38	119260	1.146	482840	0
22-Aug-95	0.922	1.002	0.967	48170	1.116	531000	0

Mesa 2: Broadway and Lindsay

19 August 1995



MESA 2 - BROADWAY AND LINDSAY
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 8/19/95



Mesa 2: Broadway and Lindsay - 9/7/95

SIGMA DTU REV: 4.01
SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0002
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=58 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 10:46 PM 6SEP91
COLLECTED 4 SAMPLES IN BOTTLE 8
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 70 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 2000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=072.00 IN., ROUGHNESS=.013, SLOPE=0.11/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED: 8:23 AM 21APR95

SAMPLE TAKEN

001-01	10:47 PM	6-Sep-91 011-04	1:53 AM	7-Sep-91 020-06	4:16 AM	7-Sep-91
002-01	10:50 PM	6-Sep-91 012-04	2:08 AM	7-Sep-91 021-07	4:39 AM	7-Sep-91
003-02	10:53 PM	6-Sep-91 013-05	2:22 AM	7-Sep-91 022-07	5:03 AM	7-Sep-91
004-02	10:56 PM	6-Sep-91 014-05	2:35 AM	7-Sep-91 023-07	5:29 AM	7-Sep-91
005-03	12:13 AM	7-Sep-91 015-05	2:48 AM	7-Sep-91 024-07	5:57 AM	7-Sep-91
006-03	12:32 AM	7-Sep-91 016-05	3:01 AM	7-Sep-91 025-08	6:26 AM	7-Sep-91
007-03	12:49 AM	7-Sep-91 017-06	3:21 AM	7-Sep-91 026-08	6:56 AM	7-Sep-91
008-03	1:06 AM	7-Sep-91 018-06	3:37 AM	7-Sep-91 027-08	7:27 AM	7-Sep-91
009-04	1:22 AM	7-Sep-91 019-06	3:56 AM	7-Sep-91 028-08	7:59 AM	7-Sep-91
010-04	1:38 AM	7-Sep-91				

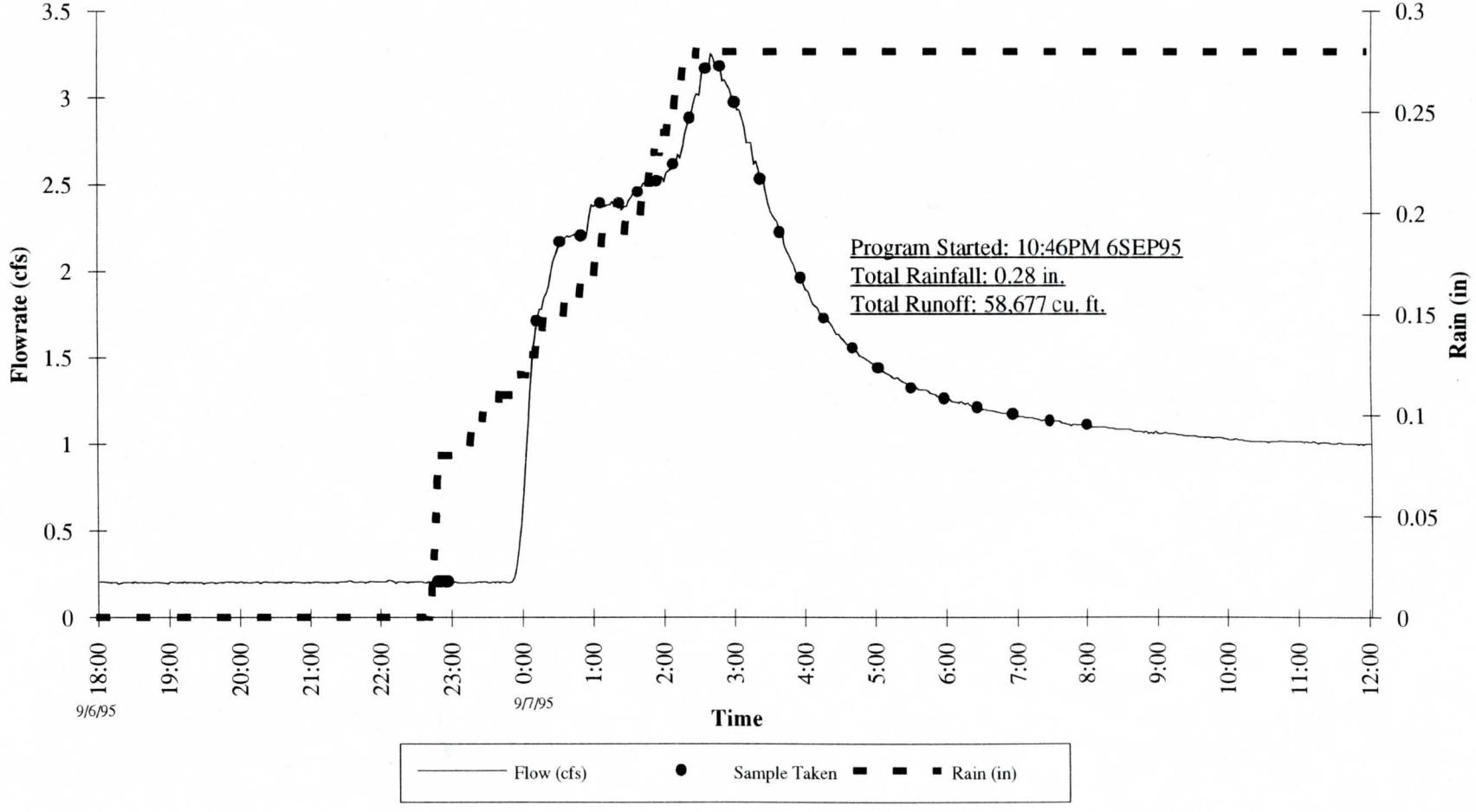
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 10:46 PM 6SEP91

Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Cumulative Total Volume	Rain
5-Sep-91	0.223	0.252	0.236	20420	0.303	141550	0
6-Sep-91	0.194	0.529	0.214	18530	0.29	160080	0.12
7-Sep-91	0.7	3.258	1.28	110290	0.414	270360	0.16
8-Sep-91	0.934	0.968	0.954	31820	0.474	302170	0

Mesa 2: Broadway and Lindsay

7 September 1995



Mesa 2: Broadway and Lindsay

September 7, 1995

RAINFALL DATA NOT AVAILABLE

Mesa 2: Broadway and Lindsay - 9/28/95
SITE I.D.#: 0002
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=58 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 11:14 PM 27SEP95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 70 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 2000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=072.00 IN., ROUGHNESS=.013, SLOPE=0.11/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED: 8:23 AM 21APR95

SAMPLE TAKEN

001-01	11:15 PM	27-Sep-95 011-04	1:40 AM	28-Sep-95 020-06	2:43 AM	28-Sep-95
002-01	11:18 PM	27-Sep-95 012-04	2:00 AM	28-Sep-95 021-07	2:47 AM	28-Sep-95
003-02	11:21 PM	27-Sep-95 013-05	2:15 AM	28-Sep-95 022-07	2:51 AM	28-Sep-95
004-02	11:25 PM	27-Sep-95 014-05	2:19 AM	28-Sep-95 023-07	2:55 AM	28-Sep-95
005-03	11:36 PM	27-Sep-95 015-05	2:23 AM	28-Sep-95 024-07	2:59 AM	28-Sep-95
006-03	11:43 PM	27-Sep-95 016-05	2:27 AM	28-Sep-95 025-08	3:03 AM	28-Sep-95
007-03	11:50 PM	27-Sep-95 017-06	2:31 AM	28-Sep-95 026-08	3:07 AM	28-Sep-95
008-03	11:57 PM	27-Sep-95 018-06	2:35 AM	28-Sep-95 027-08	3:11 AM	28-Sep-95
009-04	12:06 AM	28-Sep-95 019-06	2:39 AM	28-Sep-95 028-08	3:15 AM	28-Sep-95
010-04	1:23 AM	28-Sep-95				

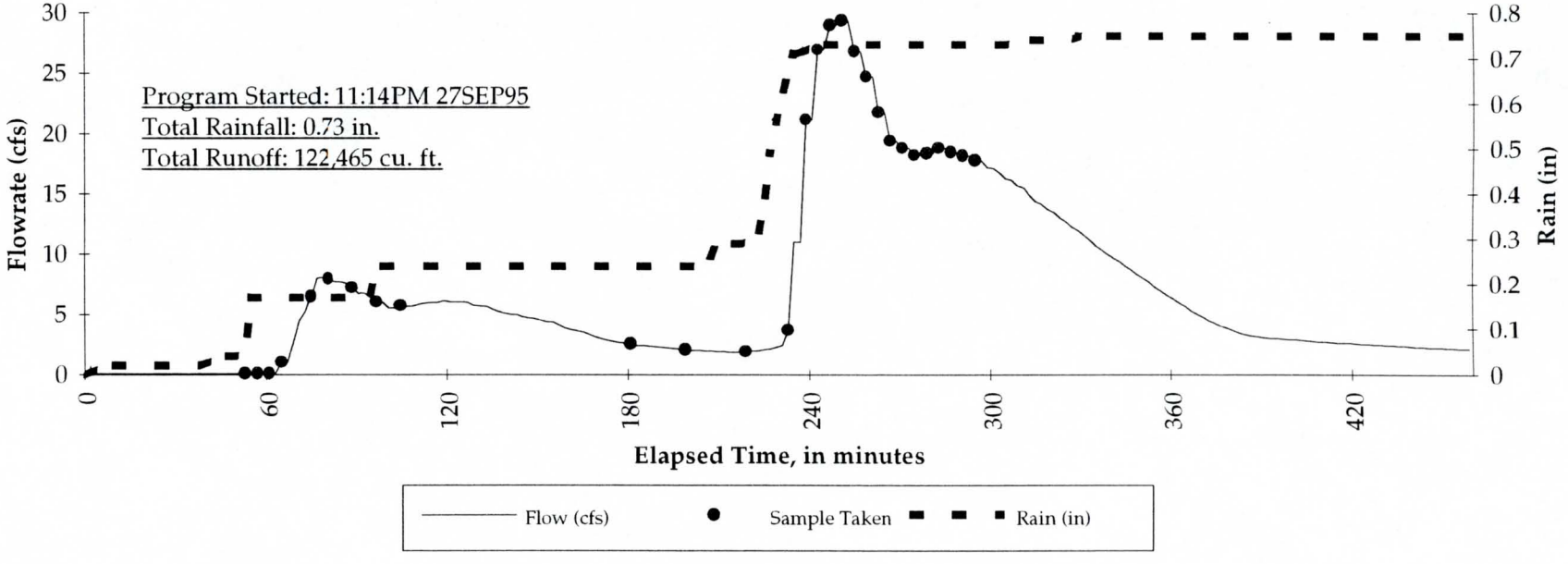
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 11:14 PM 27SEP95

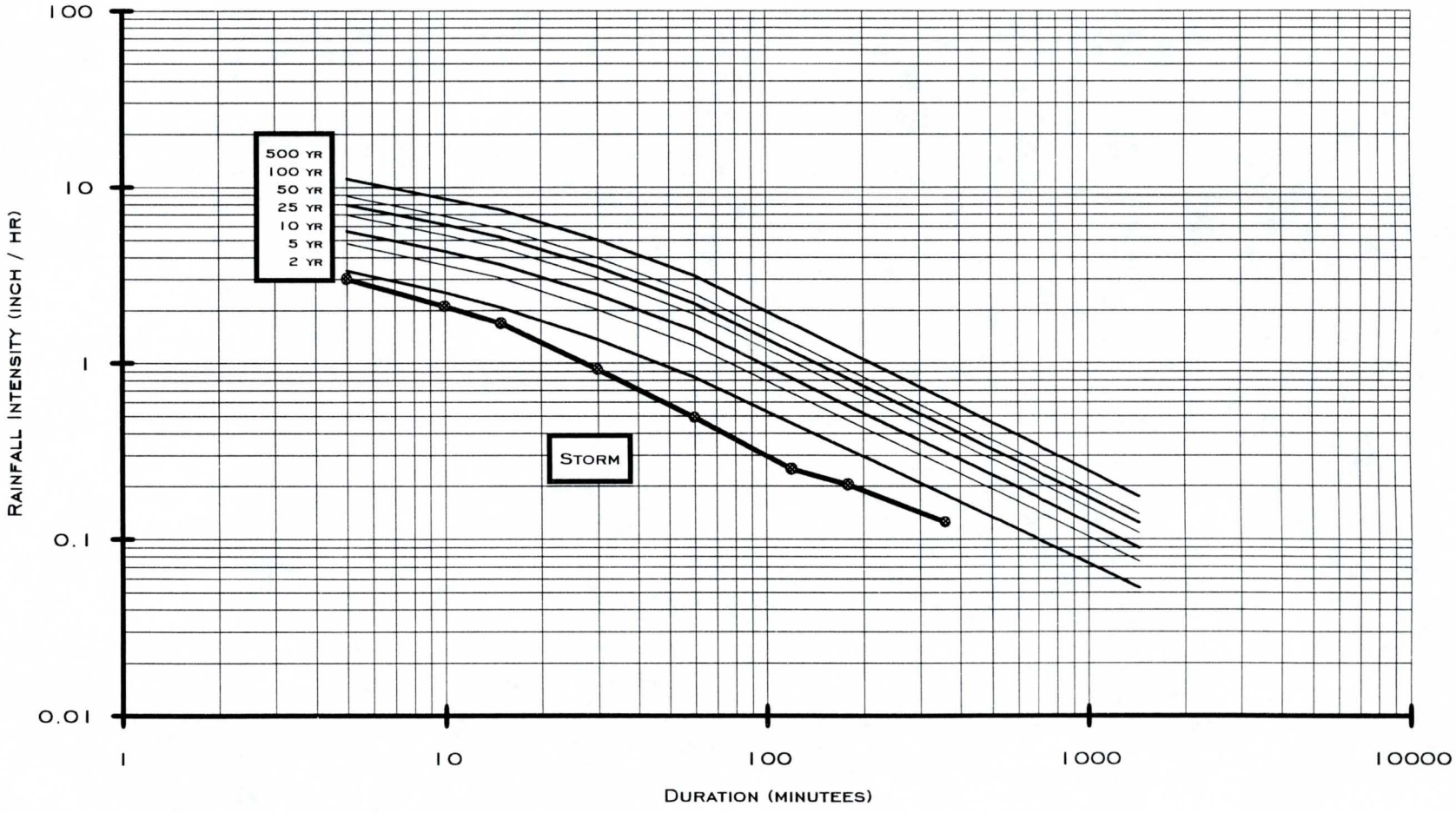
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Total Volume	Rain
25-Sep-95	0.124	0.151	0.137	11800	0.485	720480	0
26-Sep-95	0	0.134	0.107	9230	0.465	729680	0
27-Sep-95	0.089	8.034	0.238	20620	0.454	750280	0.24
28-Sep-95	0	29.405	6.323	176040	0.733	926320	0.51

Mesa 2: Broadway and Lindsay

28 September 1995



MESA 2 - BROADWAY AND LINDSAY
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 9/28/95



Mesa 2: Broadway and Lindsay - 2/1/96
SITE I.D.#: 0002
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=58 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 11:32 PM 31JAN96
PROGRAM COMPLETE
MISSED 1 SAMPLE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 2000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=072.00 IN., ROUGHNESS=.013, SLOPE=0.11/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED: 8:23 AM 21APR95

SAMPLE TAKEN

001-01	11:50 PM	31-Jan-96 010-05	1:58 AM	1-Feb-96 018-07	5:26 AM	1-Feb-96
002-03	12:13 AM	1-Feb-96 011-05	2:18 AM	1-Feb-96 019-07	5:55 AM	1-Feb-96
003-03	12:22 AM	1-Feb-96 012-05	2:40 AM	1-Feb-96 020-07	6:25 AM	1-Feb-96
004-03	12:31 AM	1-Feb-96 013-05	3:03 AM	1-Feb-96 021-07	6:54 AM	1-Feb-96
005-03	12:42 AM	1-Feb-96 014-06	3:35 AM	1-Feb-96 022-08	7:20 AM	1-Feb-96
006-04	12:54 AM	1-Feb-96 015-06	4:01 AM	1-Feb-96 023-08	7:46 AM	1-Feb-96
007-04	1:08 AM	1-Feb-96 016-06	4:28 AM	1-Feb-96 024-08	8:11 AM	1-Feb-96
008-04	1:23 AM	1-Feb-96 017-06	4:57 AM	1-Feb-96 025-08	8:37 AM	1-Feb-96
009-04	1:39 AM	1-Feb-96				

SAMPLE MISSED

001-01	11:49 PM	31-Jan-96

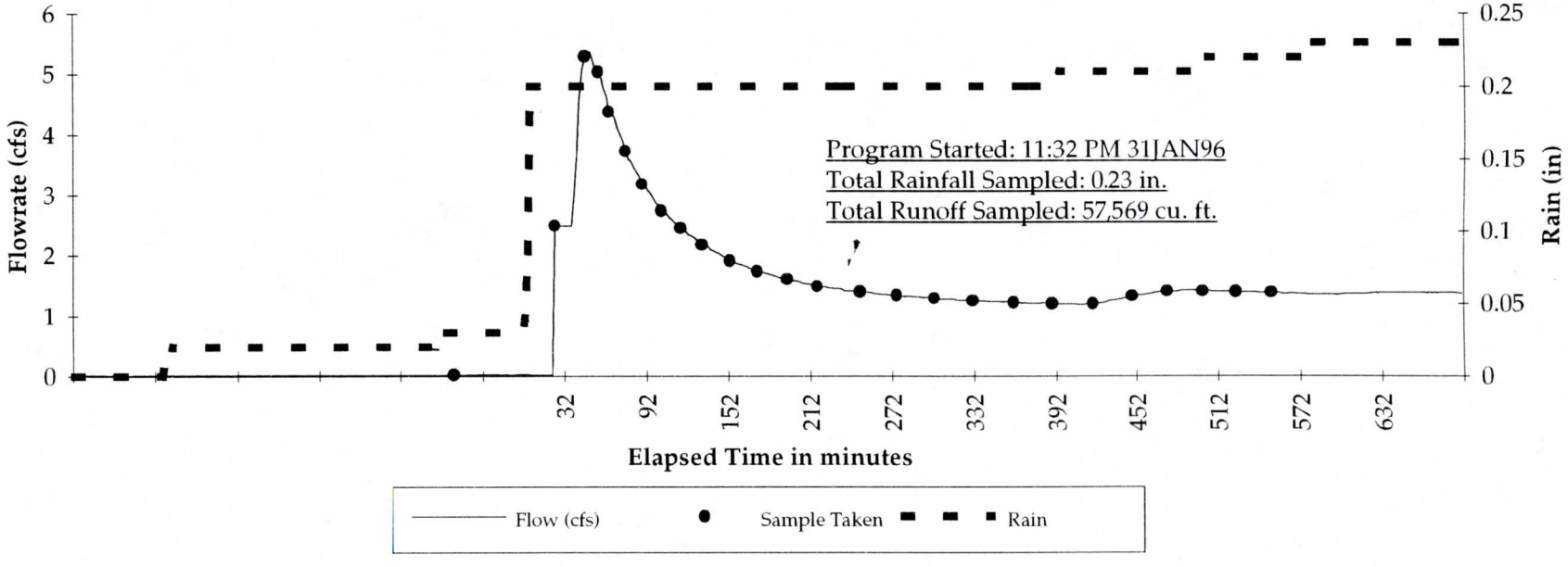
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 11:32 PM 31JAN96

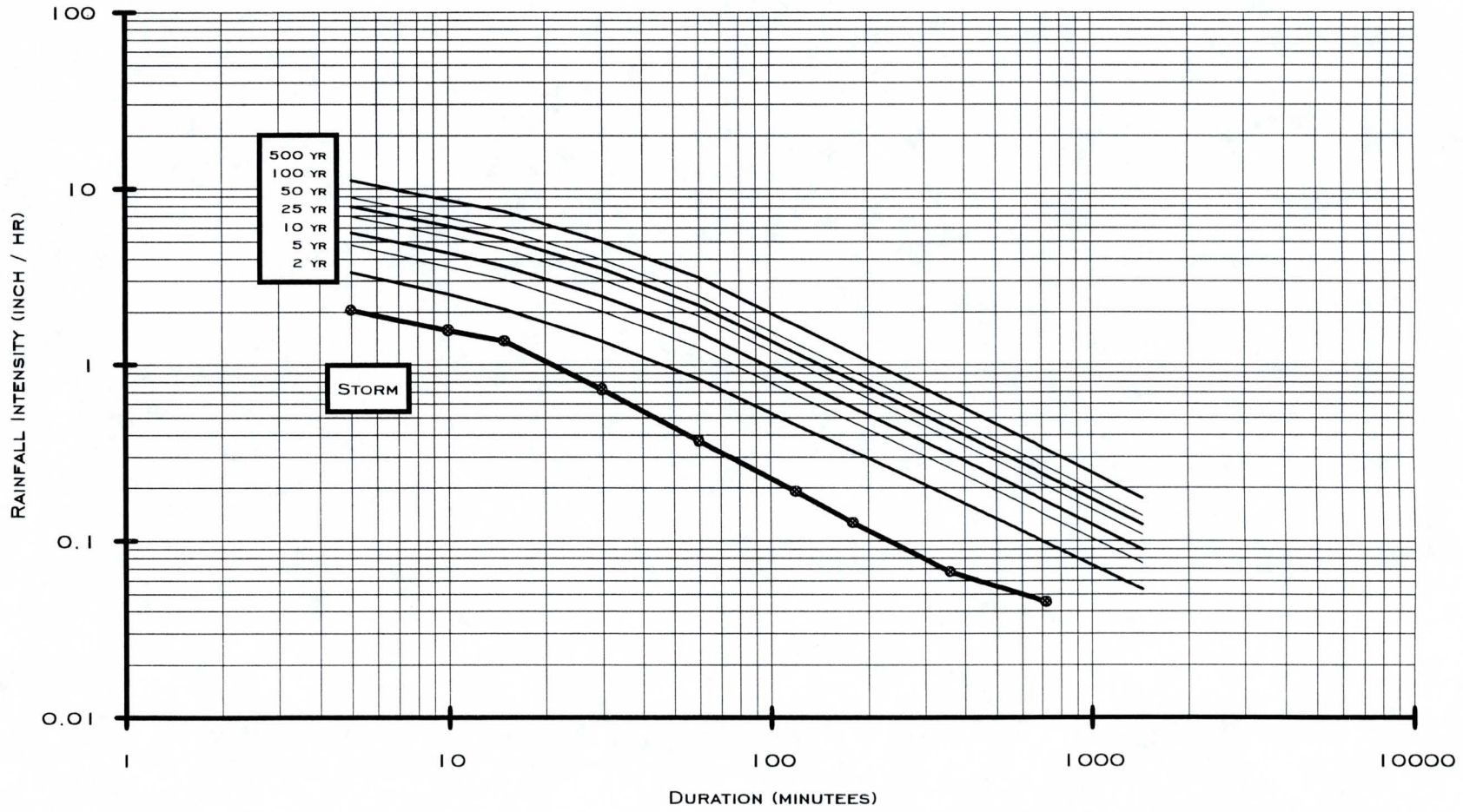
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Total Volume	Rain
31-Jan-96	0	2.488	0.038	1750	0.038	1750	0.2
1-Feb-96	1.182	27.089	3.235	277790	1.637	279530	0.43
2-Feb-96	1.132	1.24	1.178	32920	1.483	312440	0

Mesa 2: Broadway and Lindsay

01 February 1996



MESA 2 - BROADWAY AND LINDSAY
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 2/1/96



MESA 3

Mesa 3: Falcon Field - 2/1/96
SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0003
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=27 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 1:02 AM 1FEB96
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 4500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=048.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:44 AM 31OCT94

SAMPLE TAKEN

001-01	1:03 AM	1-Feb-96 011-04	2:21 AM	1-Feb-96 020-06	4:37 AM	1-Feb-96
002-01	1:05 AM	1-Feb-96 012-04	2:34 AM	1-Feb-96 021-07	4:54 AM	1-Feb-96
003-02	1:07 AM	1-Feb-96 013-05	2:48 AM	1-Feb-96 022-07	5:11 AM	1-Feb-96
004-02	1:09 AM	1-Feb-96 014-05	3:04 AM	1-Feb-96 023-07	5:28 AM	1-Feb-96
005-03	1:14 AM	1-Feb-96 015-05	3:19 AM	1-Feb-96 024-07	5:45 AM	1-Feb-96
006-03	1:24 AM	1-Feb-96 016-05	3:34 AM	1-Feb-96 025-08	6:02 AM	1-Feb-96
007-03	1:34 AM	1-Feb-96 017-06	3:49 AM	1-Feb-96 026-08	6:19 AM	1-Feb-96
008-03	1:45 AM	1-Feb-96 018-06	4:05 AM	1-Feb-96 027-08	6:37 AM	1-Feb-96
009-04	1:56 AM	1-Feb-96 019-06	4:21 AM	1-Feb-96 028-08	6:55 AM	1-Feb-96
010-04	2:08 AM	1-Feb-96				

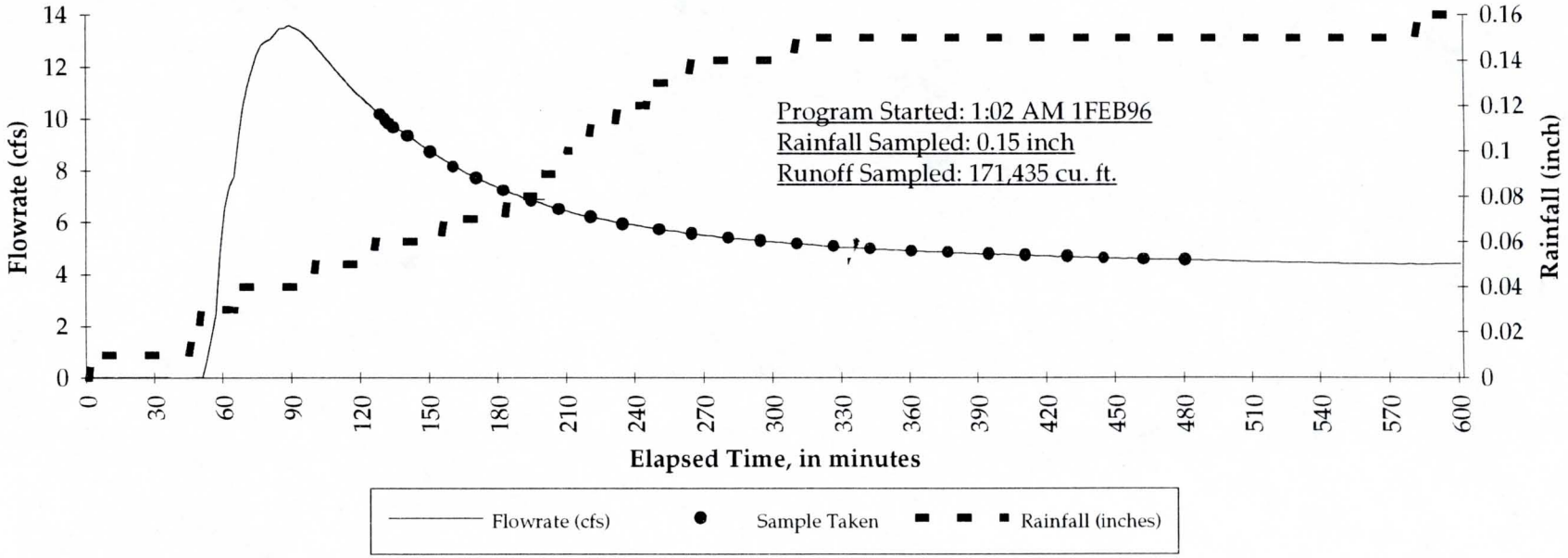
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 1:02 AM 1FEB96

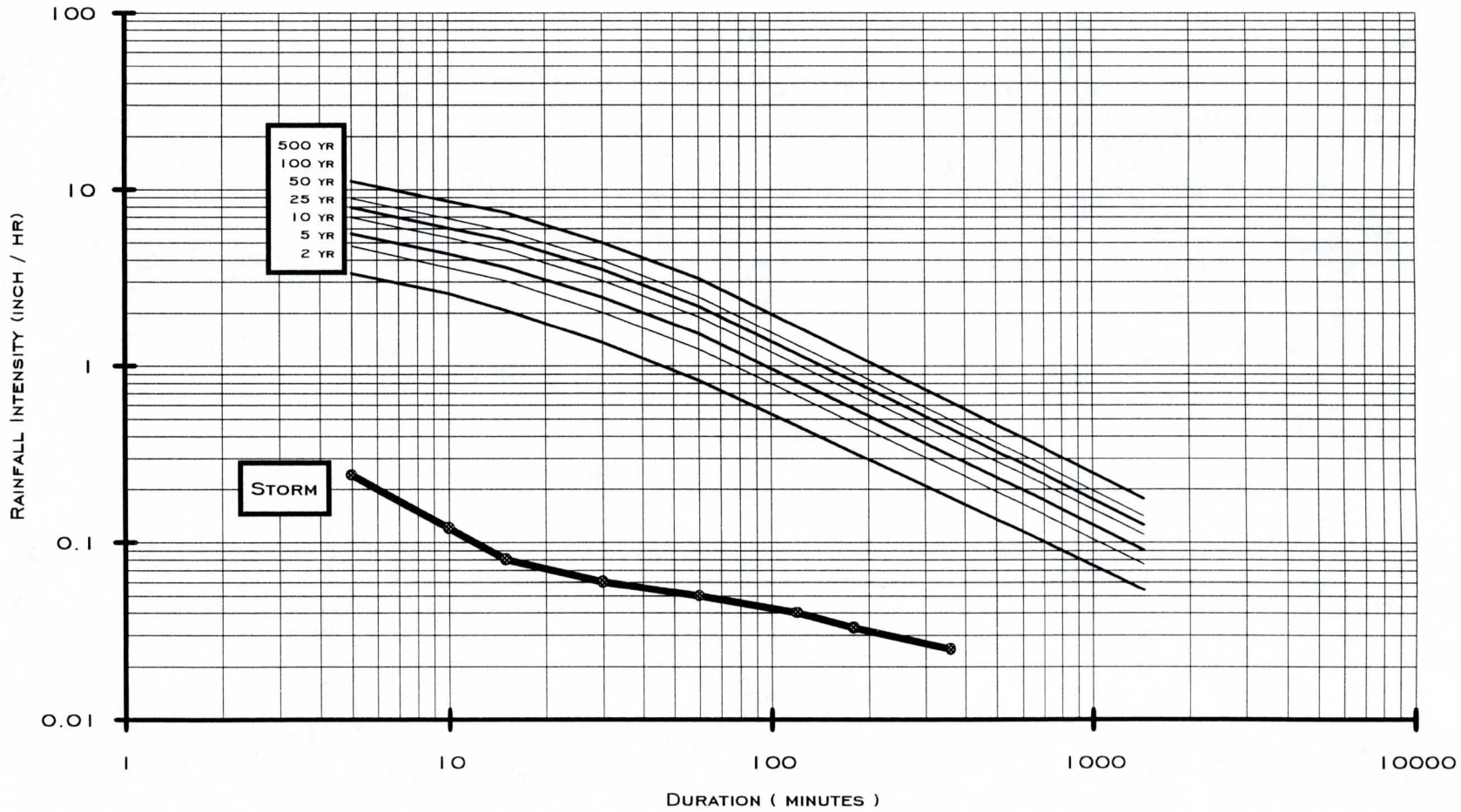
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Total Volume	Rainfall
30-Jan-96	0.007	0.016	0.015	800	0.015	800	0
31-Jan-96	0	7.393	0.047	4090	0.031	4890	0.03
1-Feb-96	4.369	18.704	7.314	631920	2.459	636800	0.23
2-Feb-96	4.35	5.259	4.669	133910	3.012	770680	0

Mesa 3: Falcon Field

1 February 1996



MESA 3 - FALCON FIELD
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 2/1/96



Mesa 3 - Falcon Field: 2/13/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0003
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=27 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 12:28 PM 13FEB95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 4500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=048.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:44 AM 31OCT94

	SAMPLE TAKEN					
001-01	12:29 PM	13-Feb-95 011-04	1:57 PM	13-Feb-95 020-06	3:36 PM	13-Feb-95
002-01	12:31 PM	13-Feb-95 012-04	2:05 PM	13-Feb-95 021-07	3:49 PM	13-Feb-95
003-02	12:33 PM	13-Feb-95 013-05	2:13 PM	13-Feb-95 022-07	4:03 PM	13-Feb-95
004-02	12:35 PM	13-Feb-95 014-05	2:21 PM	13-Feb-95 023-07	4:18 PM	13-Feb-95
005-03	12:56 PM	13-Feb-95 015-05	2:30 PM	13-Feb-95 024-07	4:34 PM	13-Feb-95
006-03	1:16 PM	13-Feb-95 016-05	2:50 PM	13-Feb-95 025-08	4:51 PM	13-Feb-95
007-03	1:25 PM	13-Feb-95 017-06	3:00 PM	13-Feb-95 026-08	5:17 PM	13-Feb-95
008-03	1:33 PM	13-Feb-95 018-06	3:11 PM	13-Feb-95 027-08	5:31 PM	13-Feb-95
009-04	1:41 PM	13-Feb-95 019-06	3:23 PM	13-Feb-95 028-08	5:45 PM	13-Feb-95
010-04	1:49 PM	13-Feb-95				

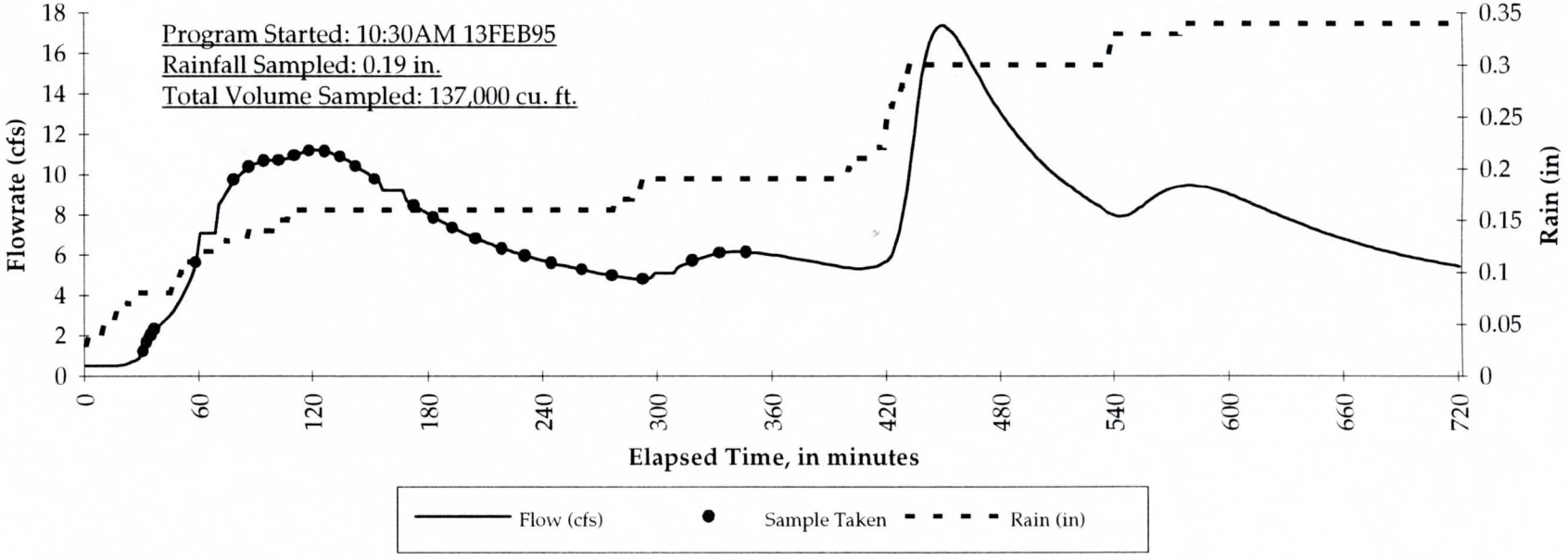
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 12:28 PM 13FEB95

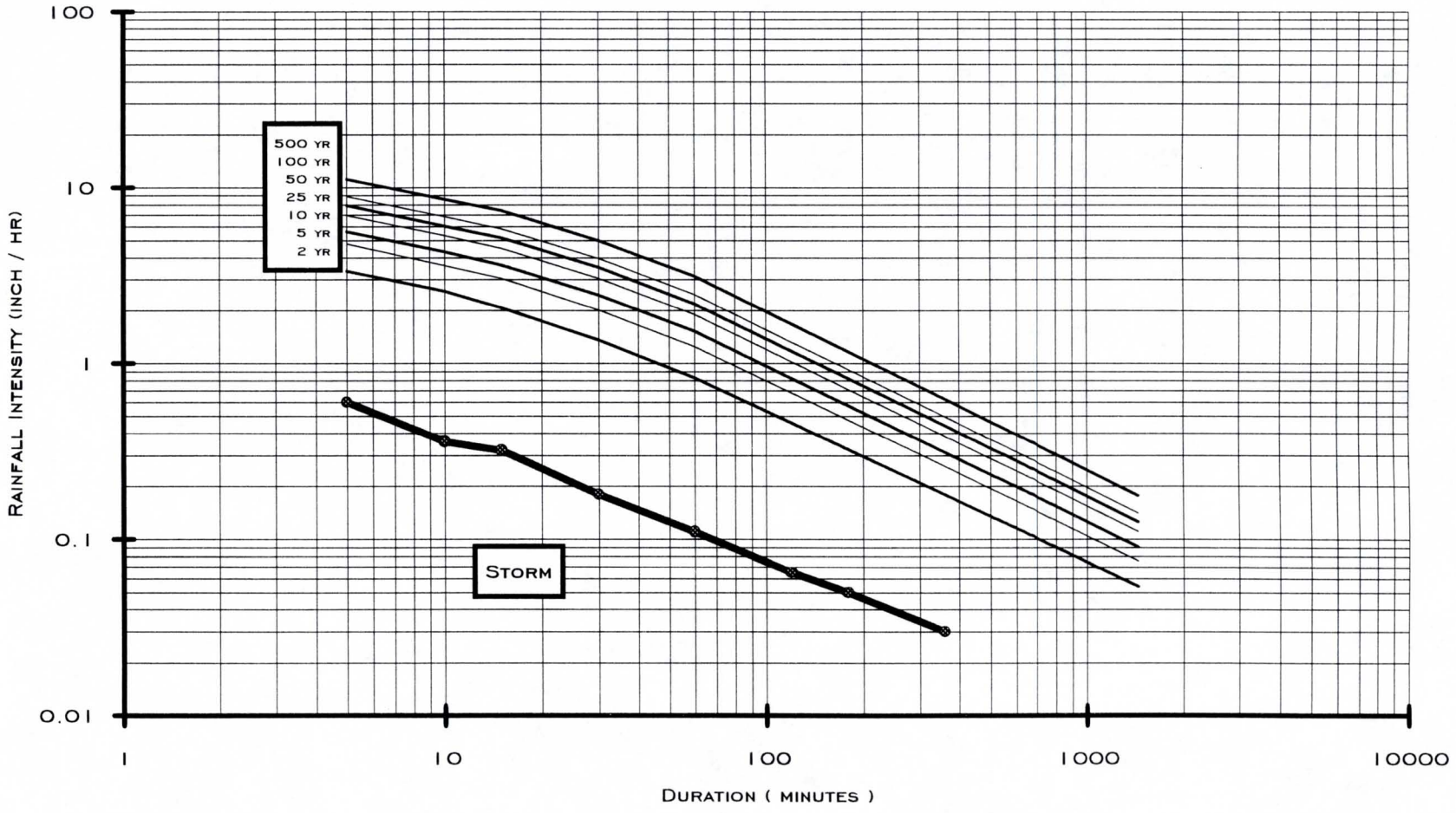
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Cumulative Total Daily Volume	Rain
9-Feb-95	0	0.082	0.044	1700	0.044	1700	0
10-Feb-95	0	0.075	0.022	1920	0.033	3620	0
11-Feb-95	0	0	0	0	0.022	3620	0
12-Feb-95	0	0.027	0.002	160	0.017	3790	0.01
13-Feb-95	0	17.379	4.057	350280	0.825	354080	0.33
14-Feb-95	2.713	5.417	3.53	121570	1.276	475640	0

Mesa 3: Falcon Field

13 February 1995



MESA 3 - FALCON FIELD
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 2/13/95



Mesa 3: Falcon Field: 2/22/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0003
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES: 8; BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=27 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 9:36 AM 22FEB95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 4500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=048.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:44 AM 31OCT94

	SAMPLE TAKEN					
001-01	9:37 AM	22-Feb-95 011-04	11:03 AM	22-Feb-95 020-06	1:24 PM	22-Feb-95
002-01	9:38 AM	22-Feb-95 012-04	11:16 AM	22-Feb-95 021-07	1:44 PM	22-Feb-95
003-02	9:40 AM	22-Feb-95 013-05	11:29 AM	22-Feb-95 022-07	2:05 PM	22-Feb-95
004-02	9:42 AM	22-Feb-95 014-05	11:43 AM	22-Feb-95 023-07	2:27 PM	22-Feb-95
005-03	9:58 AM	22-Feb-95 015-05	11:58 AM	22-Feb-95 024-07	2:49 PM	22-Feb-95
006-03	10:09 AM	22-Feb-95 016-05	12:14 PM	22-Feb-95 025-08	3:12 PM	22-Feb-95
007-03	10:19 AM	22-Feb-95 017-06	12:30 PM	22-Feb-95 026-08	3:39 PM	22-Feb-95
008-03	10:29 AM	22-Feb-95 018-06	12:47 PM	22-Feb-95 027-08	4:04 PM	22-Feb-95
009-04	10:40 AM	22-Feb-95 019-06	1:05 PM	22-Feb-95 028-08	4:30 PM	22-Feb-95
010-04	10:51 AM	22-Feb-95				

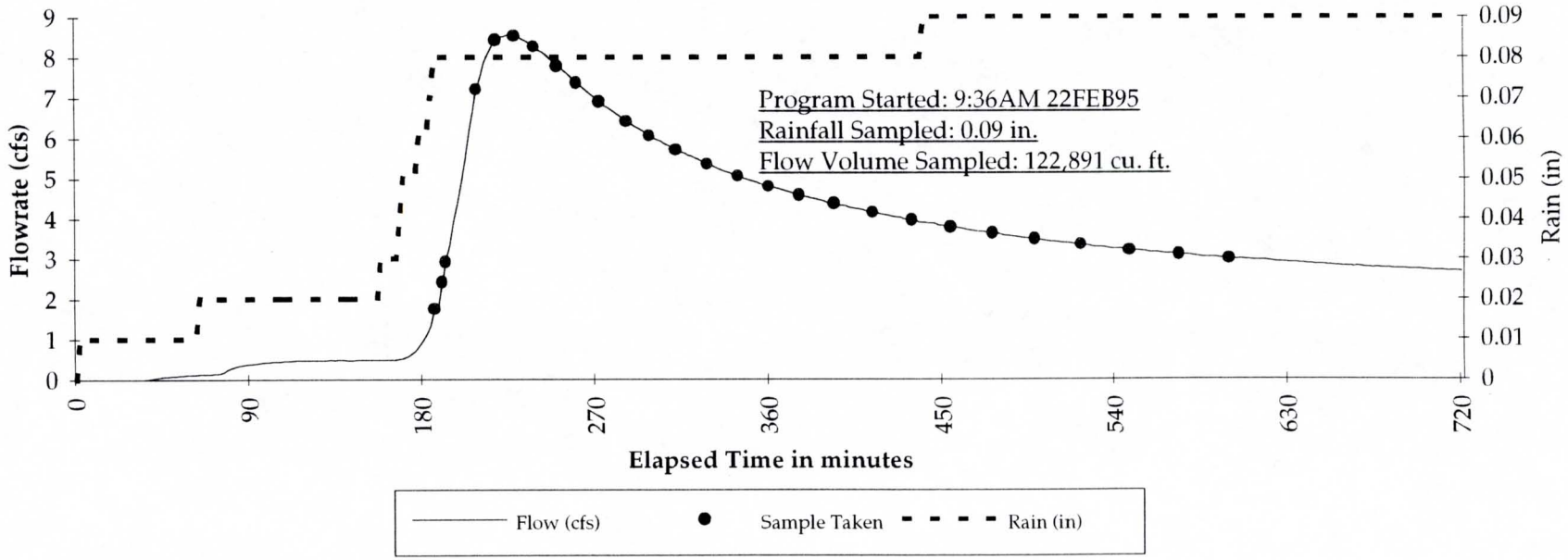
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 9:36 AM 22FEB95

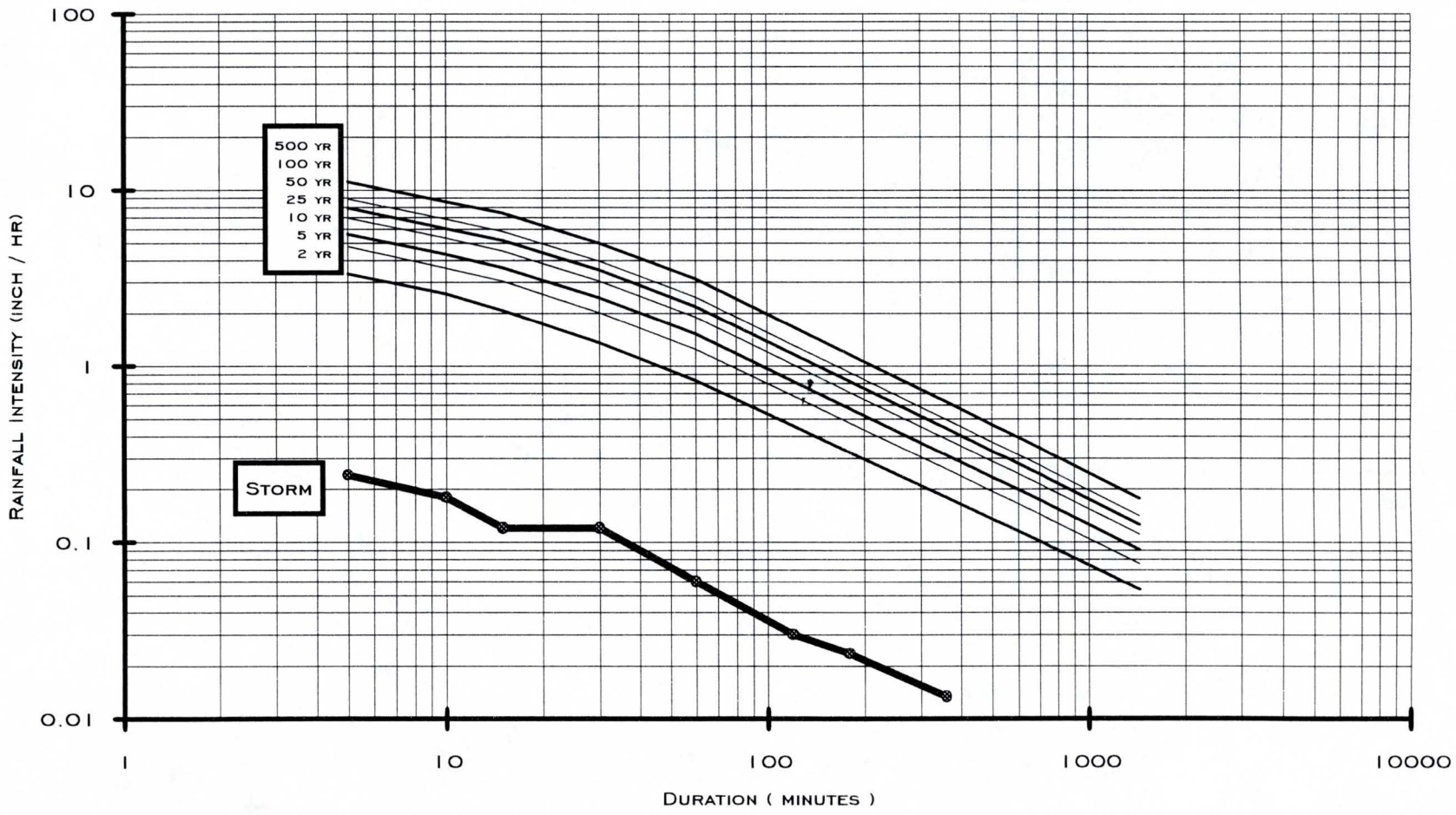
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Flow	Cum Avg Daily Flow Rate	Cumulative Flow Volume	Rain
21-Feb-95	0	0	0	0	0	0	0
22-Feb-95	0	8.553	2.208	190640	1.104	190640	0.09
23-Feb-95	1.854	2.241	2.036	70120	1.415	260760	0

Mesa 3: Falcon Field

22 February 1995



MESA 3 - FALCON FIELD
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 2/23/95



Mesa 3: Falcon Field - 2/28/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0003
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=27 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 1:03 AM 28FEB95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE
INTERVAL: 4500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=048.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:44 AM 31OCT94

SAMPLE TAKEN

001-01	1:04 AM	28-Feb-95 011-04	2:07 AM	28-Feb-95 020-06	3:50 AM	28-Feb-95
002-01	1:06 AM	28-Feb-95 012-04	2:16 AM	28-Feb-95 021-07	4:05 AM	28-Feb-95
003-02	1:08 AM	28-Feb-95 013-05	2:25 AM	28-Feb-95 022-07	4:21 AM	28-Feb-95
004-02	1:10 AM	28-Feb-95 014-05	2:35 AM	28-Feb-95 023-07	4:37 AM	28-Feb-95
005-03	1:22 AM	28-Feb-95 015-05	2:47 AM	28-Feb-95 024-07	4:53 AM	28-Feb-95
006-03	1:30 AM	28-Feb-95 016-05	2:58 AM	28-Feb-95 025-08	5:09 AM	28-Feb-95
007-03	1:37 AM	28-Feb-95 017-06	3:10 AM	28-Feb-95 026-08	5:25 AM	28-Feb-95
008-03	1:44 AM	28-Feb-95 018-06	3:23 AM	28-Feb-95 027-08	5:41 AM	28-Feb-95
009-04	1:51 AM	28-Feb-95 019-06	3:36 AM	28-Feb-95 028-08	5:57 AM	28-Feb-95
010-04	1:59 AM	28-Feb-95				

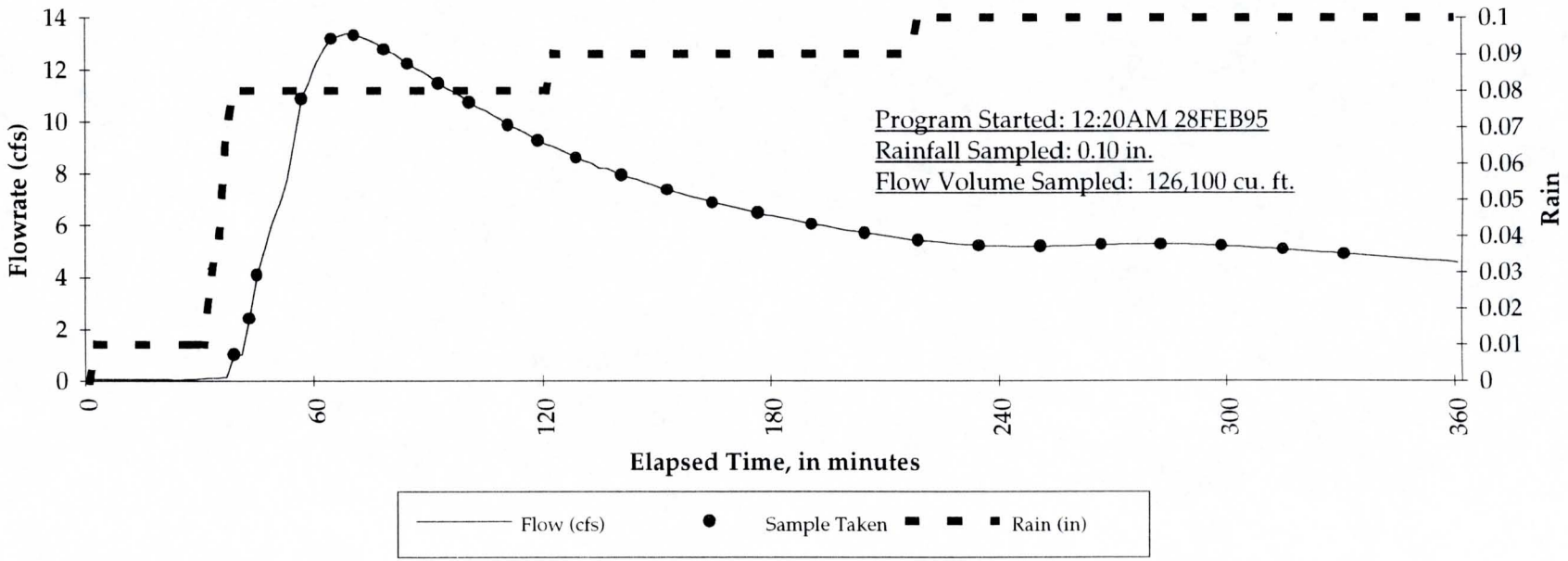
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 1:03 AM 28FEB95

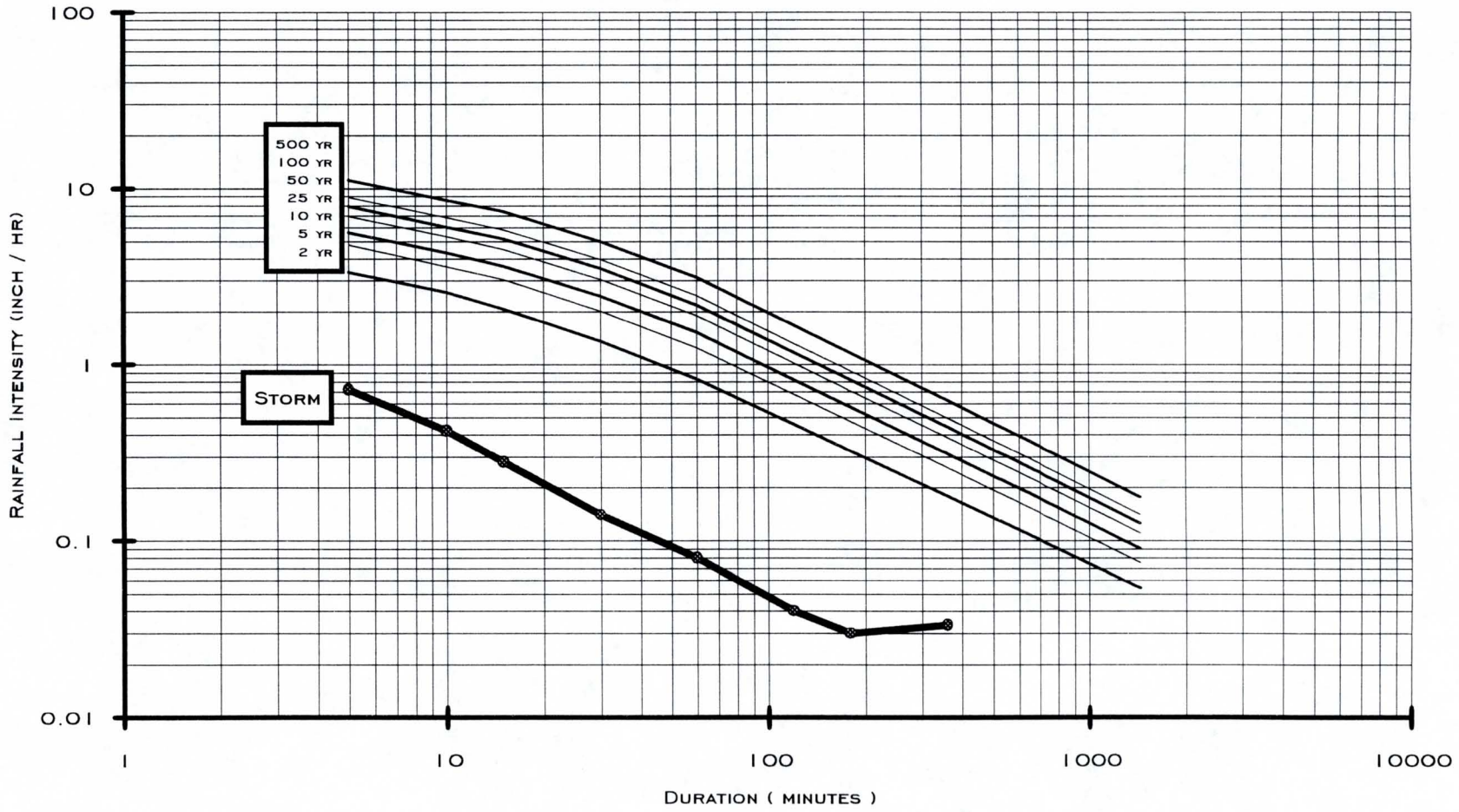
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Flow Total	Cum Avg Daily Flow Rate	Cumulative Total Volume	Rain
27-Feb-95	0.073	0.409	0.265	12970	0.265	12970	0
28-Feb-95	0.052	13.385	4.99	187400	2.627	200370	0.1

Mesa 3: Falcon Field

28 February 1995



MESA 3 - FALCON FIELD
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 2/28/95



Mesa 3: Falcon Field - 3/5/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0003
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=27 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 9:54 PM 5MAR95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 4500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=048.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:44 AM 31OCT94

	SAMPLE TAKEN					
001-01	9:55 PM	5-Mar-95 011-04	11:20 PM	5-Mar-95 020-06	12:43 AM	6-Mar-95
002-01	9:57 PM	5-Mar-95 012-04	11:29 PM	5-Mar-95 021-07	12:49 AM	6-Mar-95
003-02	9:59 PM	5-Mar-95 013-05	11:39 PM	5-Mar-95 022-07	12:55 AM	6-Mar-95
004-02	10:01 PM	5-Mar-95 014-05	11:49 PM	5-Mar-95 023-07	1:02 AM	6-Mar-95
005-03	10:21 PM	5-Mar-95 015-05	12:00 AM	6-Mar-95 024-07	1:08 AM	6-Mar-95
006-03	10:34 PM	5-Mar-95 016-05	12:10 AM	6-Mar-95 025-08	1:14 AM	6-Mar-95
007-03	10:44 PM	5-Mar-95 017-06	12:20 AM	6-Mar-95 026-08	1:20 AM	6-Mar-95
008-03	10:53 PM	5-Mar-95 018-06	12:29 AM	6-Mar-95 027-08	1:26 AM	6-Mar-95
009-04	11:02 PM	5-Mar-95 019-06	12:36 AM	6-Mar-95 028-08	1:32 AM	6-Mar-95
010-04	11:11 PM	5-Mar-95				

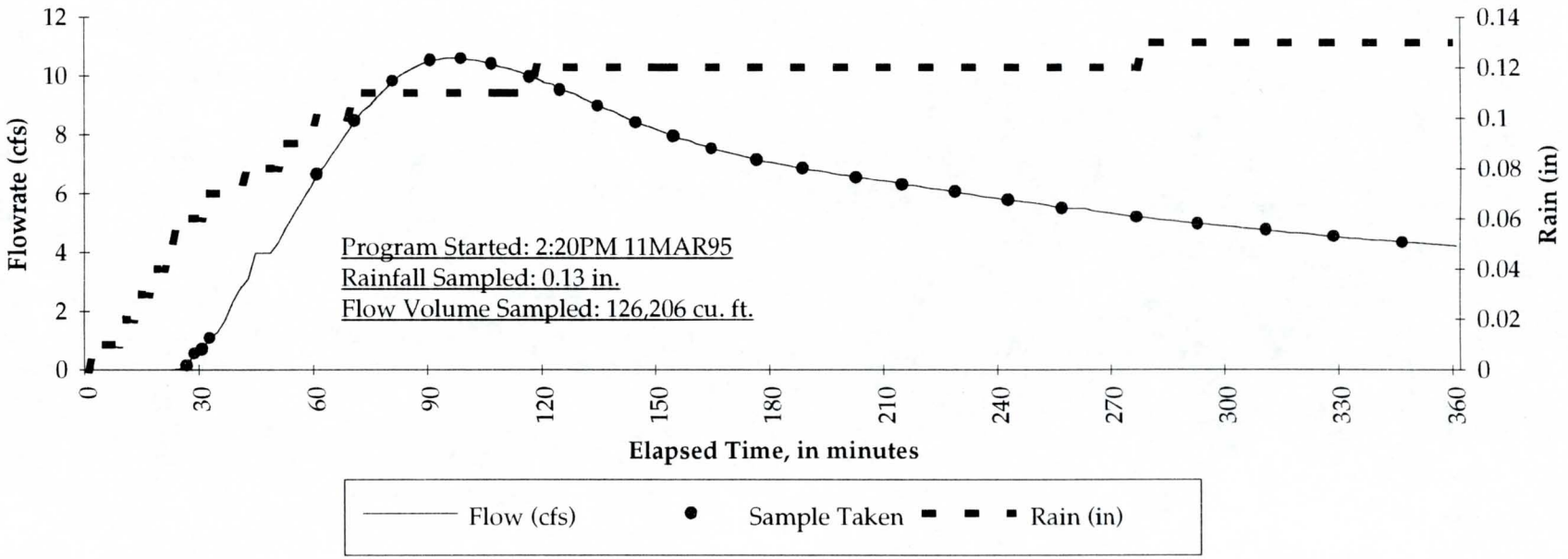
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 9:54 PM 5MAR95

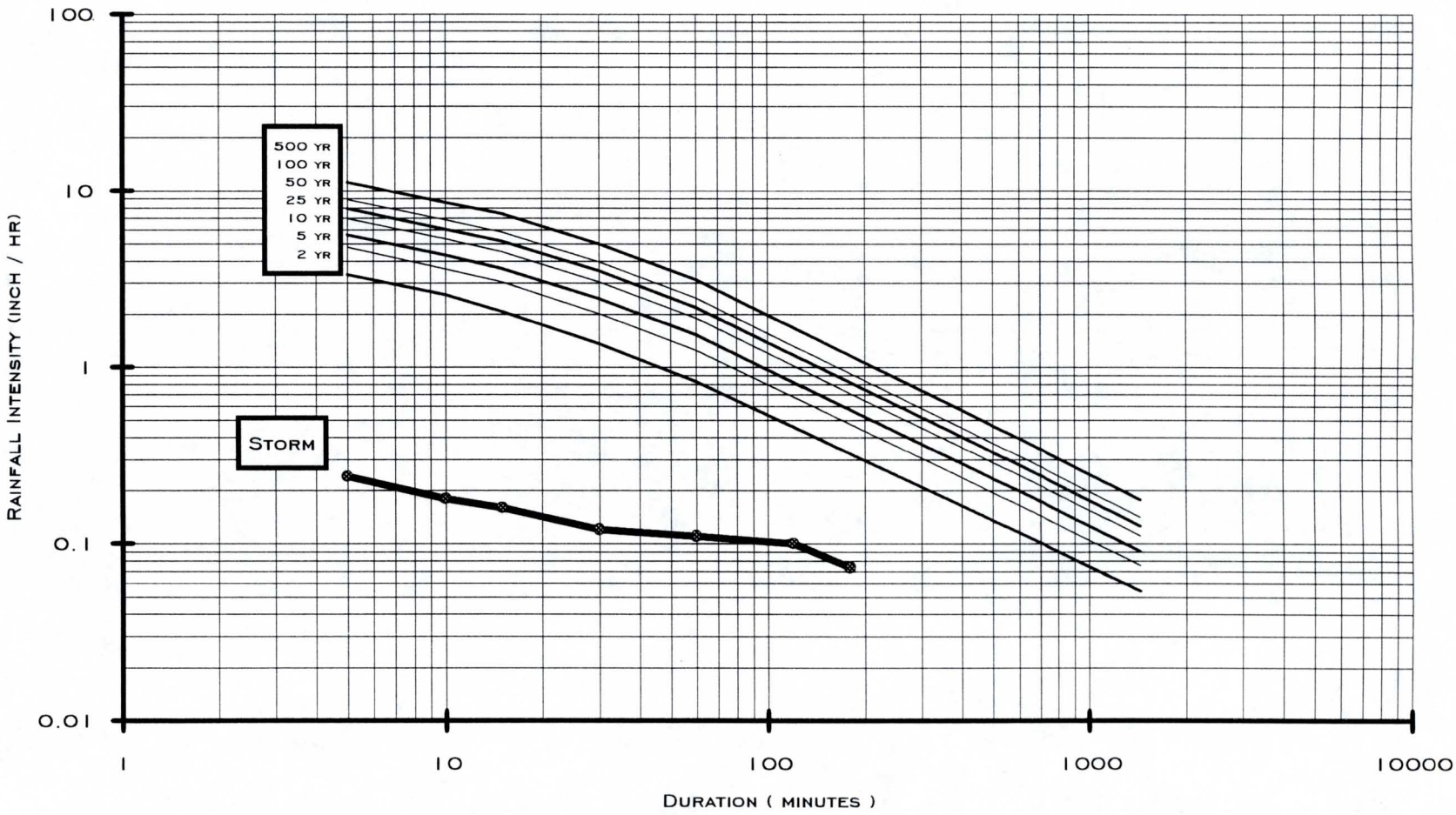
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Flow Volume	Cum Avg Flow Rate	Cumulative Flow Volume	Rain
5-Mar-95	0	10.533	0.714	61670	0.79	216770	0.14
6-Mar-95	2.86	31.127	11.518	994400	2.936	1211100	0.96
7-Mar-95	2.162	2.86	2.457	91110	2.856	1302200	0.01

Mesa 3: Falcon Field

11 March 1995



MESA 3 - FALCON FIELD
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 3/5/95



Mesa 3: Falcon Field - 5/7/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0003
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=27 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 6:33 AM 7MAY95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 4500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=048.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:44 AM 31OCT94

	SAMPLE TAKEN					
001-01	6:34 AM	7-May-95	011-04	8:01 AM	7-May-95	020-06	9:27 AM	7-May-95
002-01	6:36 AM	7-May-95	012-04	8:12 AM	7-May-95	021-07	9:35 AM	7-May-95
003-02	6:38 AM	7-May-95	013-05	8:24 AM	7-May-95	022-07	9:44 AM	7-May-95
004-02	6:40 AM	7-May-95	014-05	8:36 AM	7-May-95	023-07	9:53 AM	7-May-95
005-03	6:58 AM	7-May-95	015-05	8:46 AM	7-May-95	024-07	10:03 AM	7-May-95
006-03	7:10 AM	7-May-95	016-05	8:55 AM	7-May-95	025-08	10:13 AM	7-May-95
007-03	7:20 AM	7-May-95	017-06	9:03 AM	7-May-95	026-08	10:23 AM	7-May-95
008-03	7:30 AM	7-May-95	018-06	9:11 AM	7-May-95	027-08	10:33 AM	7-May-95
009-04	7:40 AM	7-May-95	019-06	9:19 AM	7-May-95	028-08	10:44 AM	7-May-95
010-04	7:50 AM	7-May-95						

FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 6:33 AM 7MAY95

Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Flow Volume	Cum Avg Flow Rate	Cumulative Total Flow	Rain
5-May-95	0	0.008	0	0	0	0	0
6-May-95	0	0	0	0	0	0	0
7-May-95	0	11.887	3.648	315160	1.216	315160	0.2
8-May-95	2.159	2.605	2.347	82800	1.499	397960	0

Mesa 3: Falcon Field - 3/11/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0003
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=27 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 2:20 PM 11MAR95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 4500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=048.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:44 AM 31OCT94

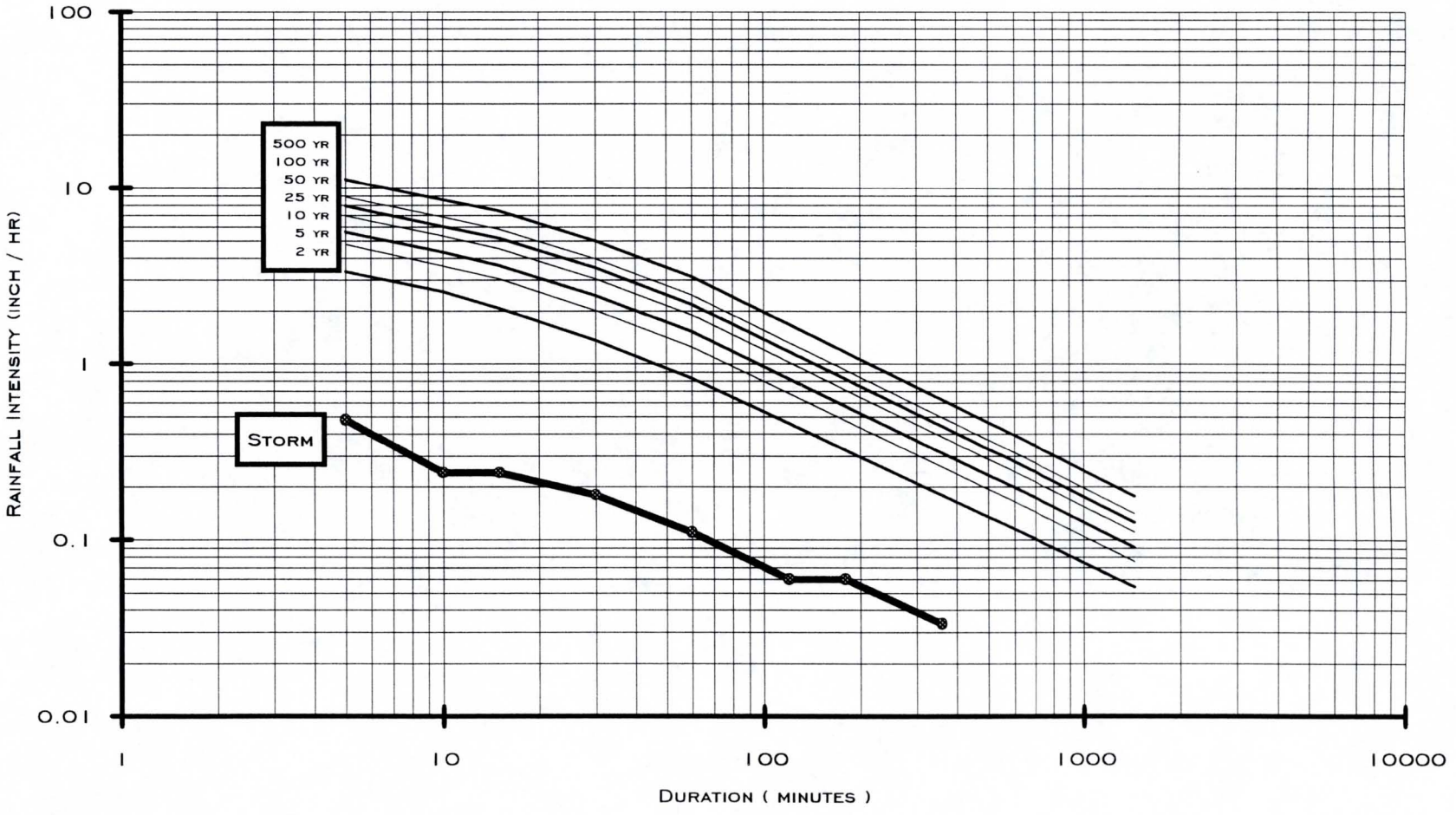
	SAMPLE TAKEN					
001-01	2:21 PM	11-Mar-95 011-04	3:50 PM	11-Mar-95 020-06	5:29 PM	11-Mar-95
002-01	2:23 PM	11-Mar-95 012-04	3:59 PM	11-Mar-95 021-07	5:42 PM	11-Mar-95
003-02	2:25 PM	11-Mar-95 013-05	4:08 PM	11-Mar-95 022-07	5:56 PM	11-Mar-95
004-02	2:27 PM	11-Mar-95 014-05	4:18 PM	11-Mar-95 023-07	6:11 PM	11-Mar-95
005-03	2:54 PM	11-Mar-95 015-05	4:28 PM	11-Mar-95 024-07	6:31 PM	11-Mar-95
006-03	3:05 PM	11-Mar-95 016-05	4:39 PM	11-Mar-95 025-08	6:47 PM	11-Mar-95
007-03	3:15 PM	11-Mar-95 017-06	4:51 PM	11-Mar-95 026-08	7:04 PM	11-Mar-95
008-03	3:24 PM	11-Mar-95 018-06	5:03 PM	11-Mar-95 027-08	7:22 PM	11-Mar-95
009-04	3:32 PM	11-Mar-95 019-06	5:16 PM	11-Mar-95 028-08	7:40 PM	11-Mar-95
010-04	3:41 PM	11-Mar-95				

FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 2:20 PM 11MAR95

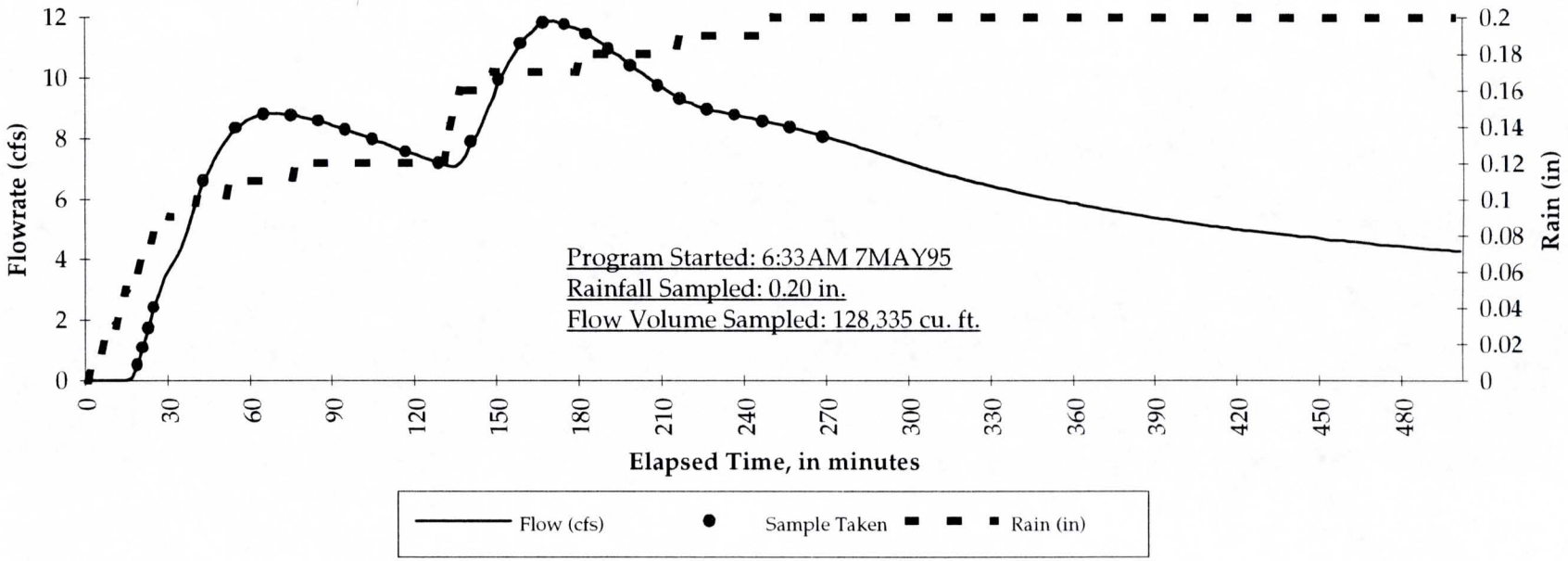
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Total Volume	Cum Avg Daily Flow Rate	Cumulative Flow Total	Rain
9-Mar-95	0.492	0.786	0.639	26060	0.639	26060	0
10-Mar-95	0	0.488	0.159	13730	0.399	39790	0
11-Mar-95	0	30.008	4.02	347340	1.606	387120	0.45
12-Mar-95	2.143	16.031	4.285	370200	2.276	757320	0.01
13-Mar-95	1.752	2.143	1.941	68710	2.209	826040	0

MESA 3 - FALCON FIELD
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 5/7/95



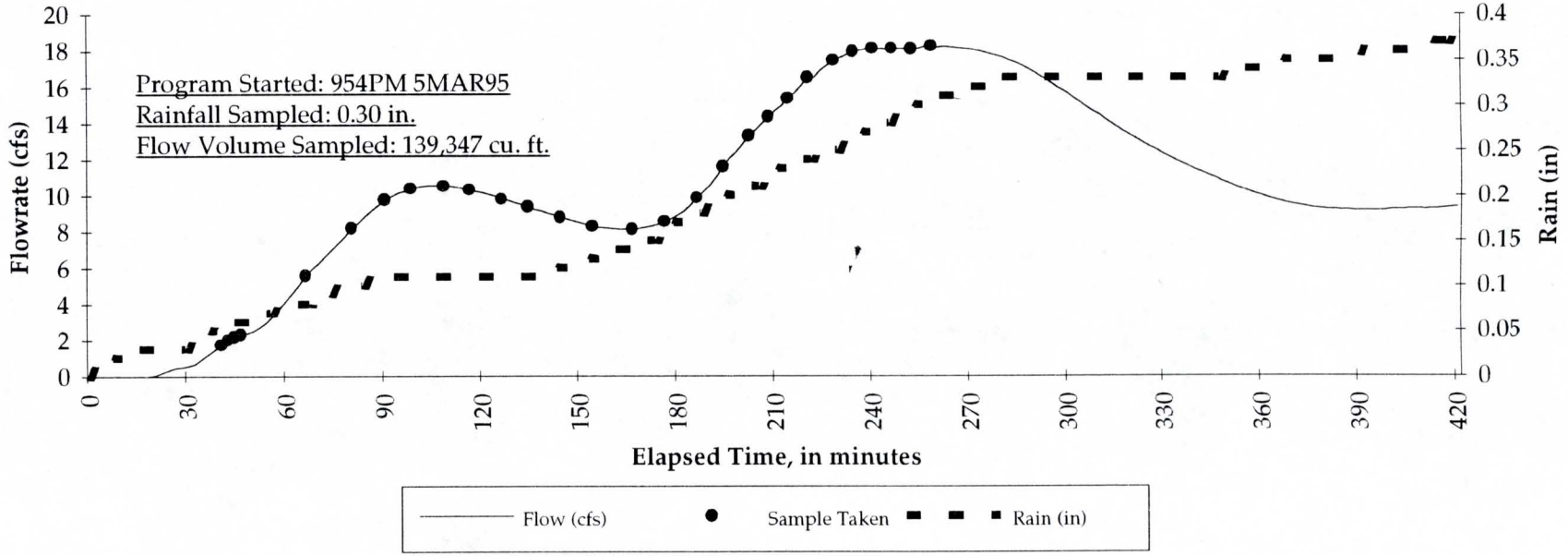
Mesa 3: Falcon Field

7 May 1995

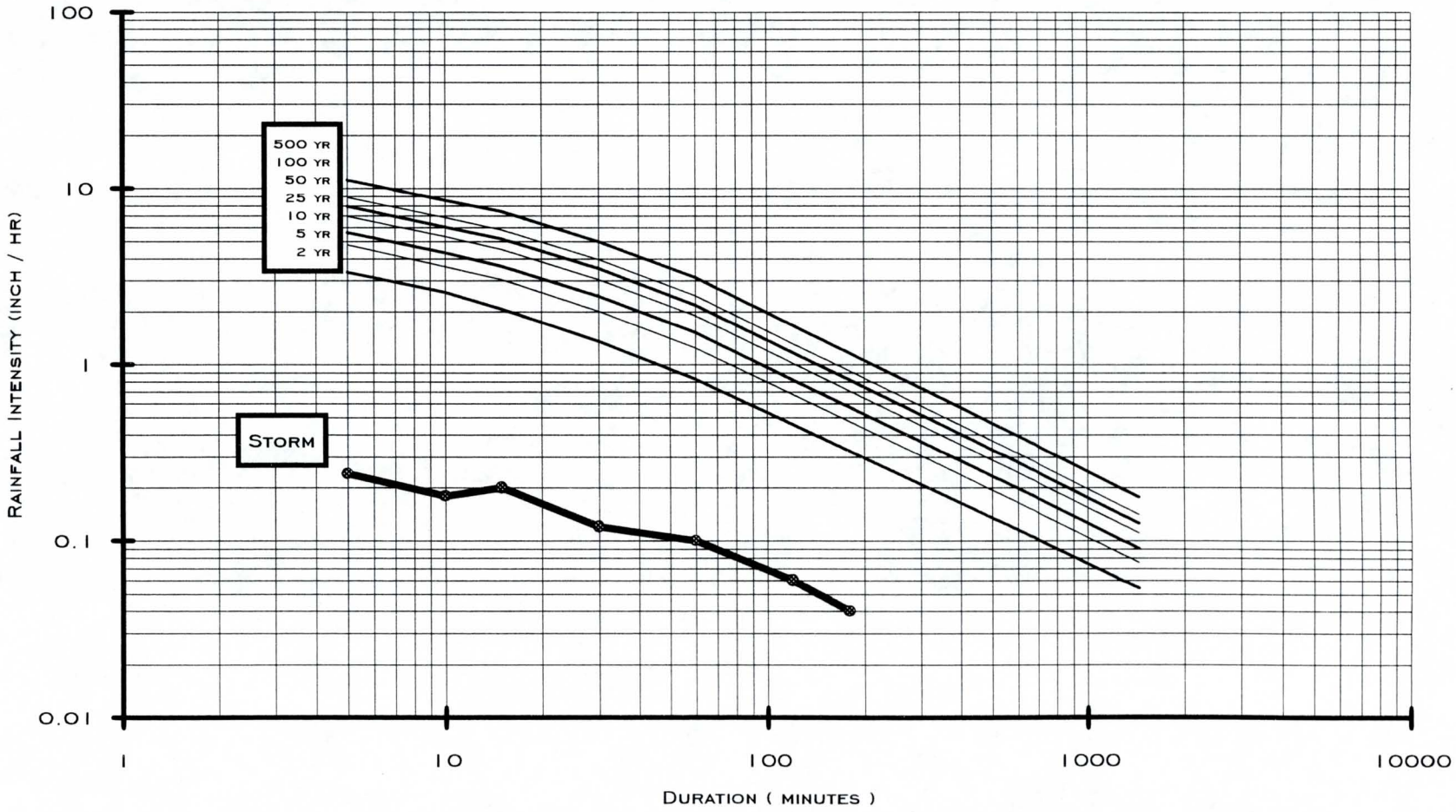


Mesa 3: Falcon Field

5 March 1995



MESA 3 - FALCON FIELD
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 3/11/95



Mesa 3: Falcon Field - 11/1/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0003
ADVANCED PROGRAMMING: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=27 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 8:44 PM 1NOV95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 4500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=048.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:44 AM 31OCT94

SAMPLE TAKEN

001-01	8:45 PM	1-Nov-95 011-04	9:53 PM	1-Nov-95 020-06	10:26 PM	1-Nov-95
002-01	8:47 PM	1-Nov-95 012-04	9:56 PM	1-Nov-95 021-07	10:31 PM	1-Nov-95
003-02	8:49 PM	1-Nov-95 013-05	9:59 PM	1-Nov-95 022-07	10:36 PM	1-Nov-95
004-02	8:51 PM	1-Nov-95 014-05	10:02 PM	1-Nov-95 023-07	10:41 PM	1-Nov-95
005-03	9:28 PM	1-Nov-95 015-05	10:05 PM	1-Nov-95 024-07	10:46 PM	1-Nov-95
006-03	9:35 PM	1-Nov-95 016-05	10:09 PM	1-Nov-95 025-08	10:51 PM	1-Nov-95
007-03	9:40 PM	1-Nov-95 017-06	10:13 PM	1-Nov-95 026-08	10:55 PM	1-Nov-95
008-03	9:44 PM	1-Nov-95 018-06	10:17 PM	1-Nov-95 027-08	10:59 PM	1-Nov-95
009-04	9:47 PM	1-Nov-95 019-06	10:21 PM	1-Nov-95 028-08	11:03 PM	1-Nov-95
010-04	9:50 PM	1-Nov-95				

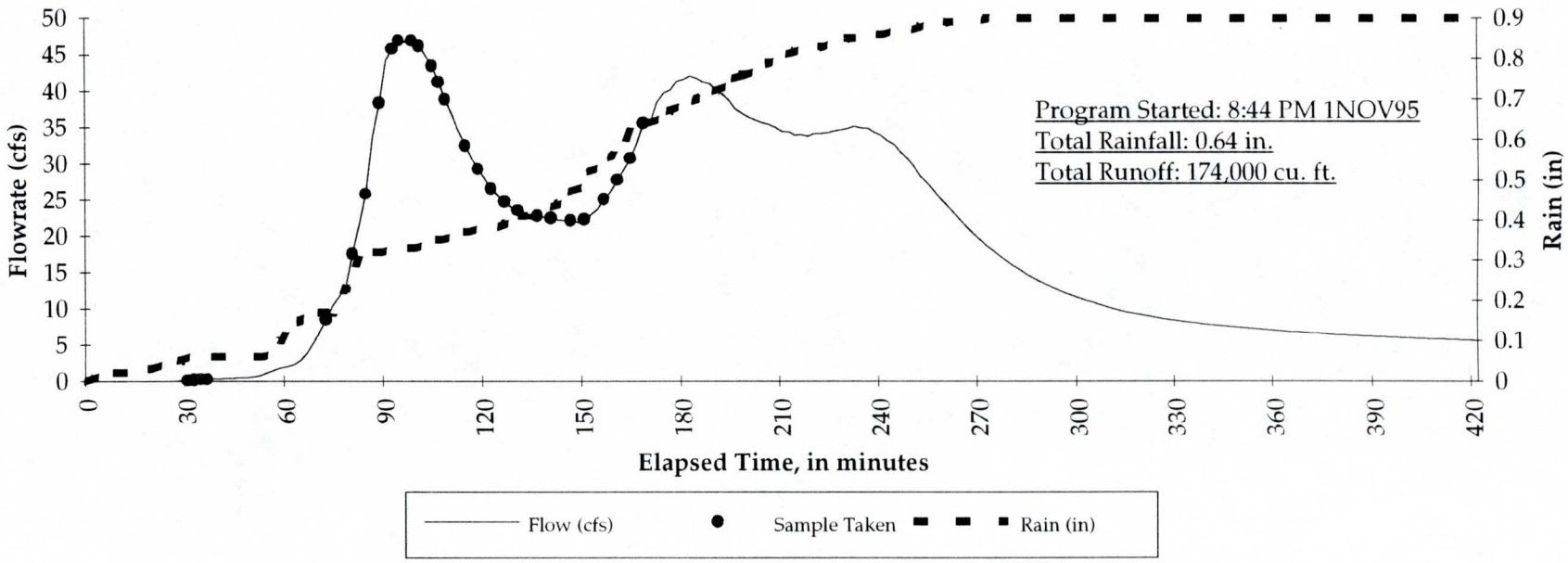
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 8:44 PM 1NOV95

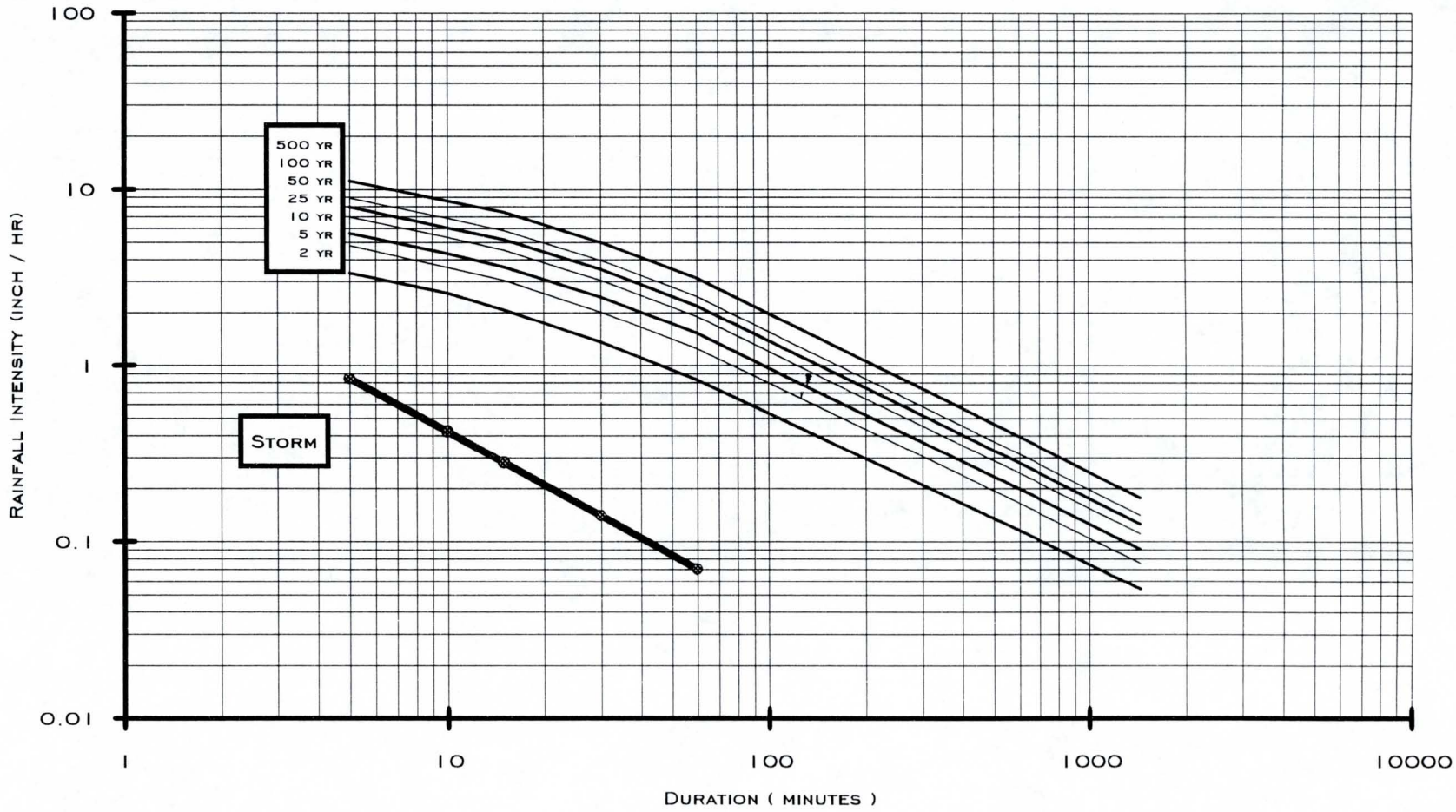
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Total Volume	Rain
29-Oct-95	0	0.007	0	0	0.01	9280	0
30-Oct-95	0	0.016	0	30	0.009	9320	0
31-Oct-95	0	0.007	0	0	0.008	9320	0
1-Nov-95	0	46.915	3.421	295580	0.252	304890	0.83
2-Nov-95	4.36	35.167	7.971	263050	0.767	567920	0.07

Mesa 3: Falcon Field

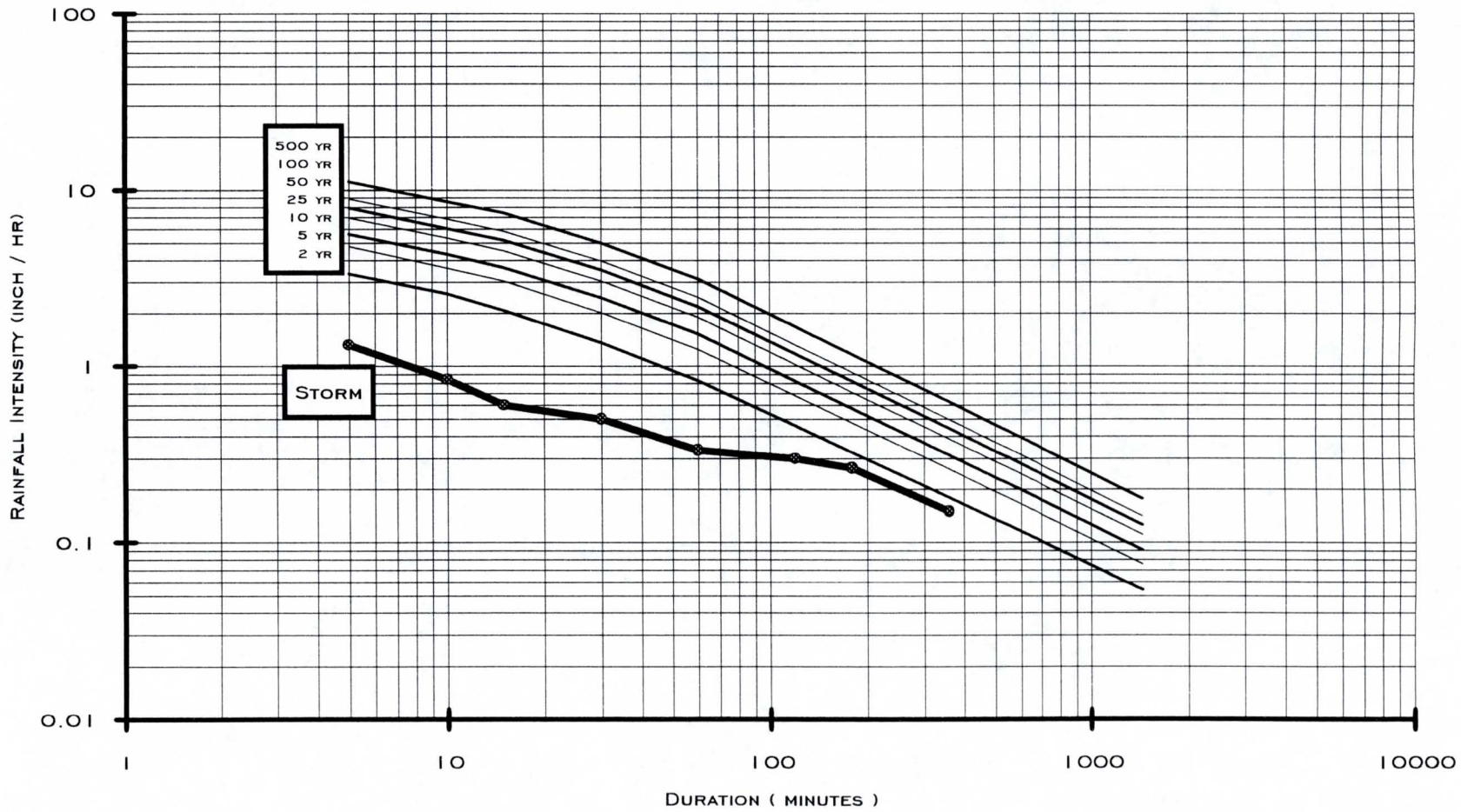
1 November 1995



MESA 3 - FALCON FIELD
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 7/11/95



MESA 3 - FALCON FIELD
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 11/1/95



Mesa 3: Falcon Field - 7/11/95
SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0003
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=27 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 10:41 PM 11JUL95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 70 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 4500CU FT
DISCRETE MODE, 4 SAMPLES/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=048.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:44 AM 31OCT94

SAMPLE TAKEN

001-01	10:42 PM	11-Jul-95	011-04	11:41 PM	11-Jul-95 020-06	1:11 AM	12-Jul-95
002-01	10:45 PM	11-Jul-95	012-04	11:48 PM	11-Jul-95 021-07	1:23 AM	12-Jul-95
003-02	10:47 PM	11-Jul-95	013-05	11:56 PM	11-Jul-95 022-07	1:36 AM	12-Jul-95
004-02	10:49 PM	11-Jul-95	014-05	12:04 AM	12-Jul-95 023-07	1:50 AM	12-Jul-95
005-03	11:00 PM	11-Jul-95	015-05	12:13 AM	12-Jul-95 024-07	2:04 AM	12-Jul-95
006-03	11:08 PM	11-Jul-95	016-05	12:25 AM	12-Jul-95 025-08	2:18 AM	12-Jul-95
007-03	11:15 PM	11-Jul-95	017-06	12:36 AM	12-Jul-95 026-08	2:34 AM	12-Jul-95
008-03	11:21 PM	11-Jul-95	018-06	12:46 AM	12-Jul-95 027-08	2:50 AM	12-Jul-95
009-04	11:27 PM	11-Jul-95	019-06	12:59 AM	12-Jul-95 028-08	3:06 AM	12-Jul-95
010-04	11:34 PM	11-Jul-95					

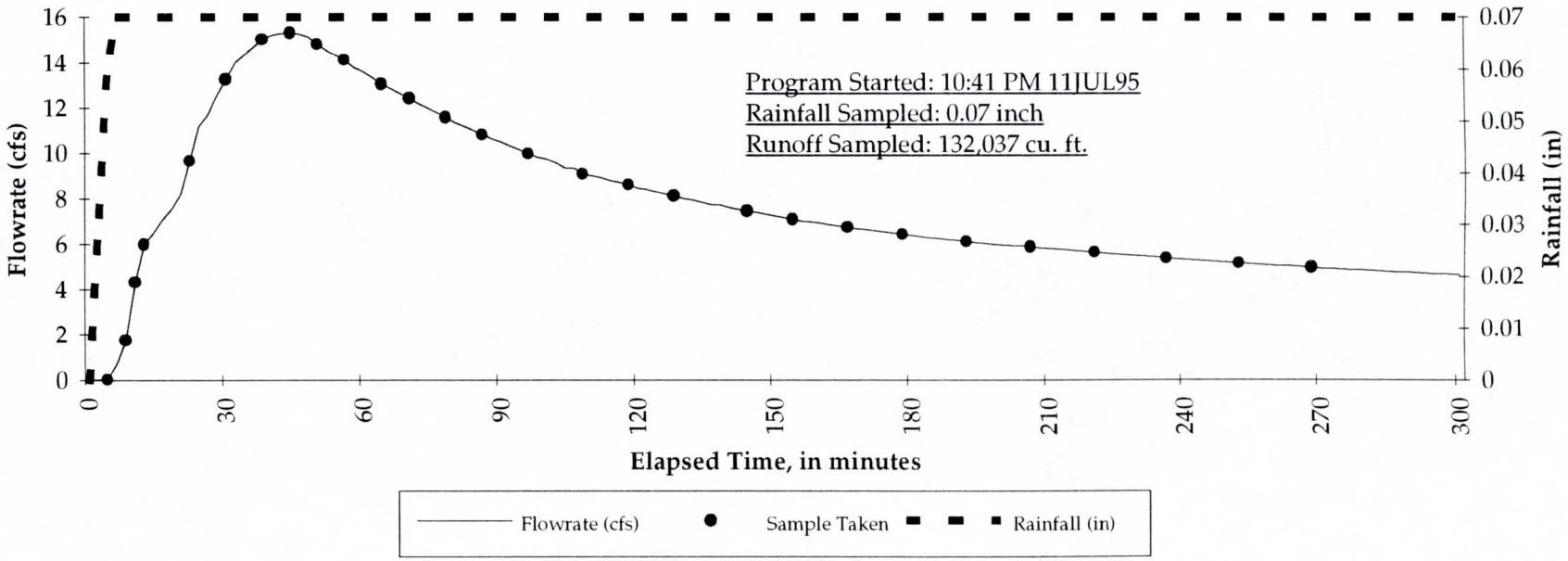
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 10:41 PM 11JUL95

Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flowrate	Total Volume	Rainfall
5-Jul-95	0.016	0.021	0.018	760	0.018	760	0
6-Jul-95	0.015	0.022	0.018	1530	0.018	2300	0
7-Jul-95	0.015	0.021	0.018	1530	0.018	3830	0
8-Jul-95	0.015	0.021	0.018	1540	0.018	5380	0
9-Jul-95	0.015	0.02	0.017	1480	0.018	6870	0
10-Jul-95	0.015	0.021	0.018	1540	0.018	8410	0
11-Jul-95	0.015	15.303	0.632	54570	0.105	62980	0.07
12-Jul-95	3.451	11.198	4.322	369260	0.632	432240	0
13-Jul-95	3.283	3.563	3.408	122280	0.941	554520	0

Mesa 3: Falcon Field

11 July 1995



Mesa 3: Falcon Field - 8/14/95

SITE I.D.#: 0003
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=27 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 9:46 PM 14AUG95
COLLECTED 4 SAMPLES IN BOTTLE 8
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 70 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 4500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=048.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:44 AM 31OCT94

	SAMPLE TAKEN					
001-01	9:47 PM	14-Aug-95 011-04	10:14 PM	14-Aug-95 020-06	10:43 PM	14-Aug-95
002-01	9:48 PM	14-Aug-95 012-04	10:17 PM	14-Aug-95 021-07	10:47 PM	14-Aug-95
003-02	9:50 PM	14-Aug-95 013-05	10:20 PM	14-Aug-95 022-07	10:51 PM	14-Aug-95
004-02	9:52 PM	14-Aug-95 014-05	10:23 PM	14-Aug-95 023-07	10:55 PM	14-Aug-95
005-03	9:56 PM	14-Aug-95 015-05	10:26 PM	14-Aug-95 024-07	11:00 PM	14-Aug-95
006-03	9:59 PM	14-Aug-95 016-05	10:29 PM	14-Aug-95 025-08	11:05 PM	14-Aug-95
007-03	10:02 PM	14-Aug-95 017-06	10:32 PM	14-Aug-95 026-08	11:10 PM	14-Aug-95
008-03	10:05 PM	14-Aug-95 018-06	10:35 PM	14-Aug-95 027-08	11:15 PM	14-Aug-95
009-04	10:08 PM	14-Aug-95 019-06	10:39 PM	14-Aug-95 028-08	11:20 PM	14-Aug-95
010-04	10:11 PM	14-Aug-95				

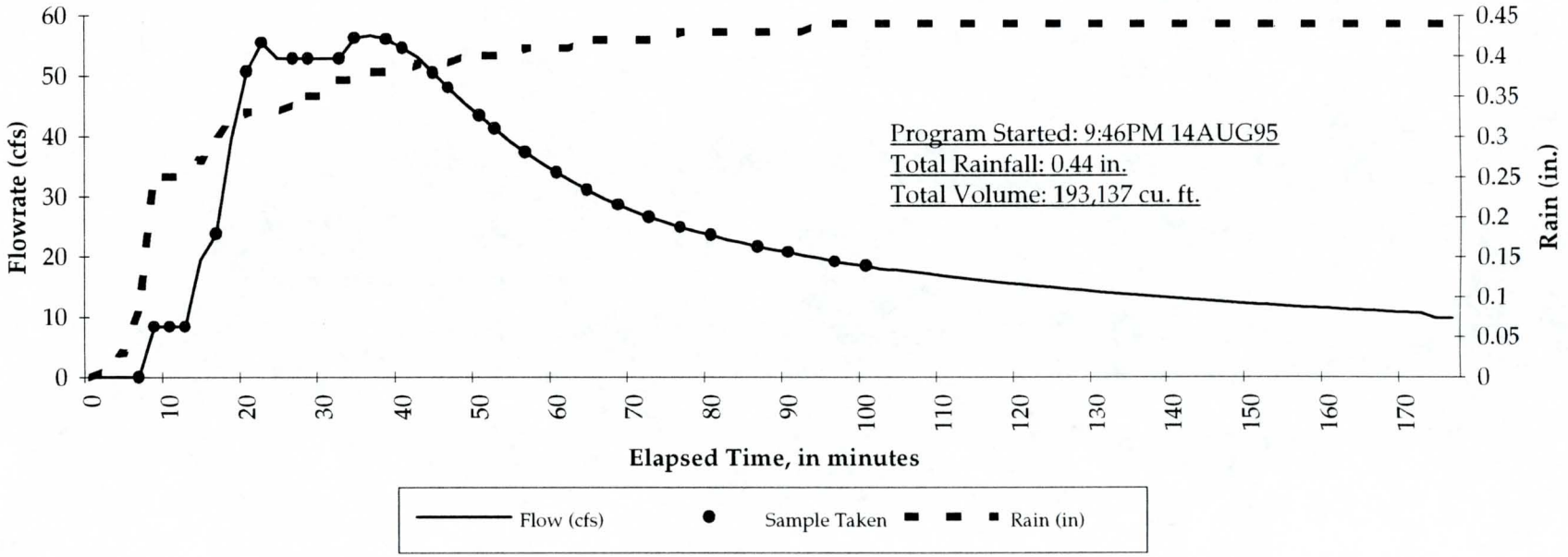
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 9:46 PM 14AUG95

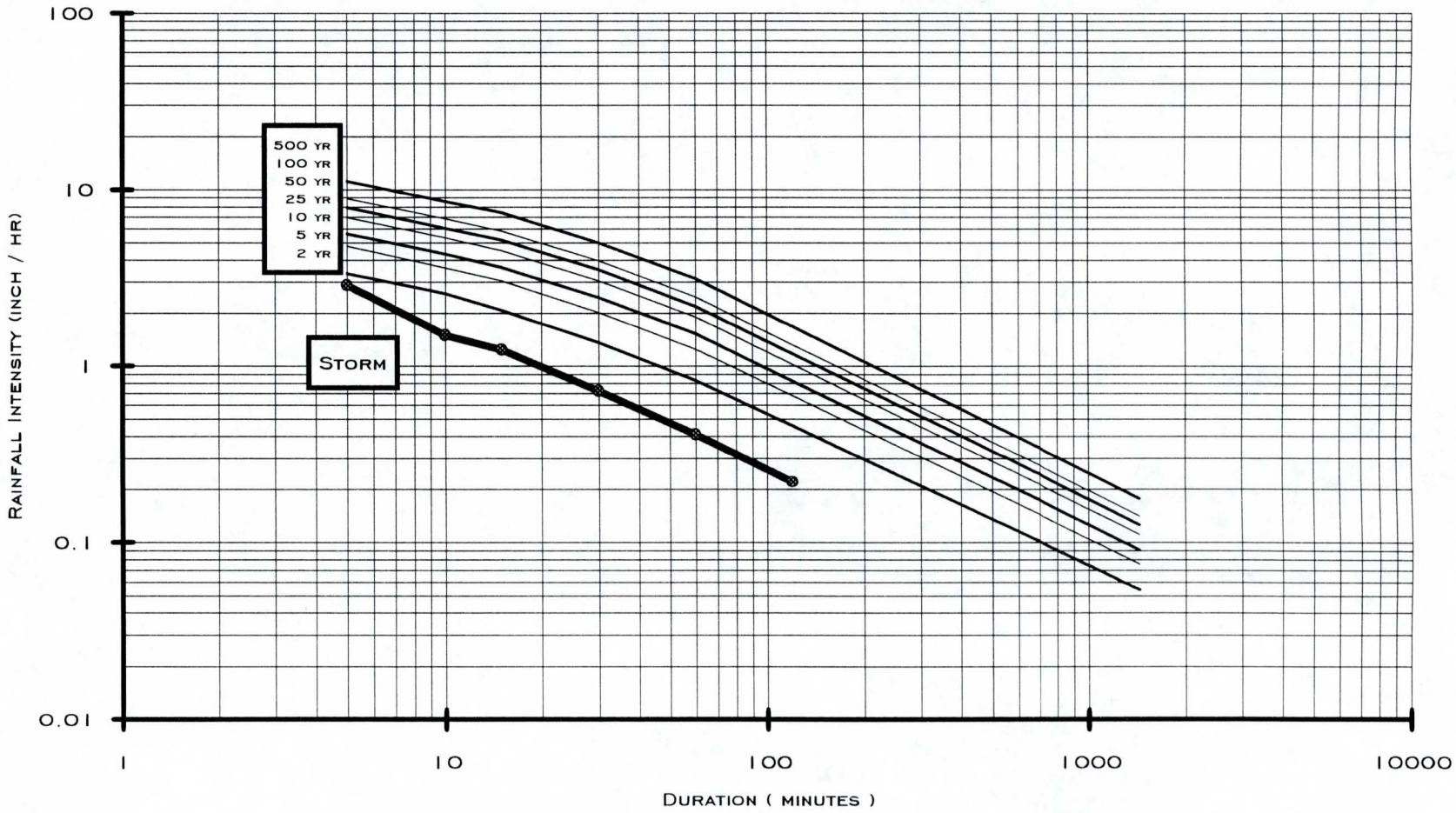
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Total Volume	Cum Avg Flow Rate	Total Volume	Rain
12-Aug-95	0	0.015	0.006	510	0.005	2040	0
13-Aug-95	0	0.016	0.005	420	0.005	2460	0
14-Aug-95	0	56.703	2.648	228820	0.383	231280	0.44
15-Aug-95	9.833	13.115	11.224	23560	1.738	254850	0

Mesa 3: Falcon Field

14 August 1995



MESA 3 - FALCON FIELD
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 8/14/95



Mesa 3: Falcon Field - 8/19/95
SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0003
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=27 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 8:32 PM 19AUG95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 70 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 4500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=048.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:44 AM 31OCT94

SAMPLE TAKEN

001-01	8:32 PM	19-Aug-95 011-04	9:07 PM	19-Aug-95 020-06	9:34 PM	19-Aug-95
002-01	8:34 PM	19-Aug-95 012-04	9:10 PM	19-Aug-95 021-07	9:36 PM	19-Aug-95
003-02	8:36 PM	19-Aug-95 013-05	9:13 PM	19-Aug-95 022-07	9:40 PM	19-Aug-95
004-02	8:37 PM	19-Aug-95 014-05	9:16 PM	19-Aug-95 023-07	9:44 PM	19-Aug-95
005-03	8:45 PM	19-Aug-95 015-05	9:19 PM	19-Aug-95 024-07	9:48 PM	19-Aug-95
006-03	8:49 PM	19-Aug-95 016-05	9:22 PM	19-Aug-95 025-08	9:52 PM	19-Aug-95
007-03	8:52 PM	19-Aug-95 017-06	9:25 PM	19-Aug-95 026-08	9:56 PM	19-Aug-95
008-03	8:55 PM	19-Aug-95 018-06	9:28 PM	19-Aug-95 027-08	10:01 PM	19-Aug-95
009-04	8:58 PM	19-Aug-95 019-06	9:30 PM	19-Aug-95 028-08	10:06 PM	19-Aug-95
010-04	9:01 PM	19-Aug-95				

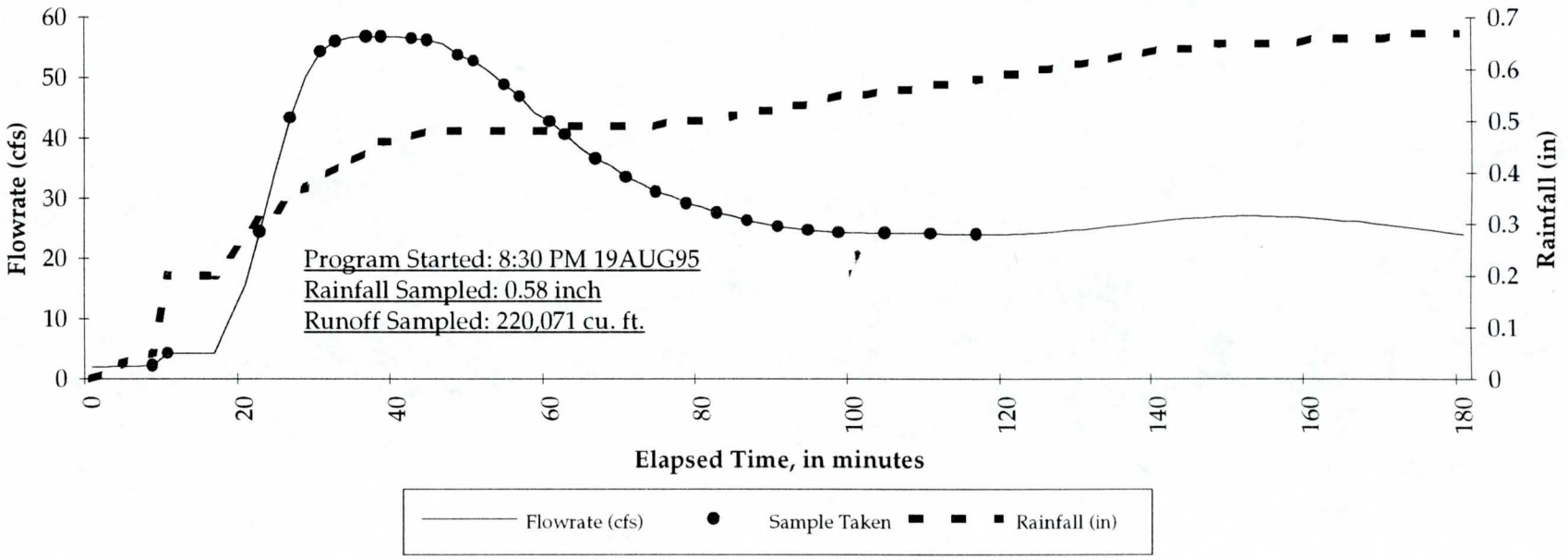
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 8:32 PM 19AUG95

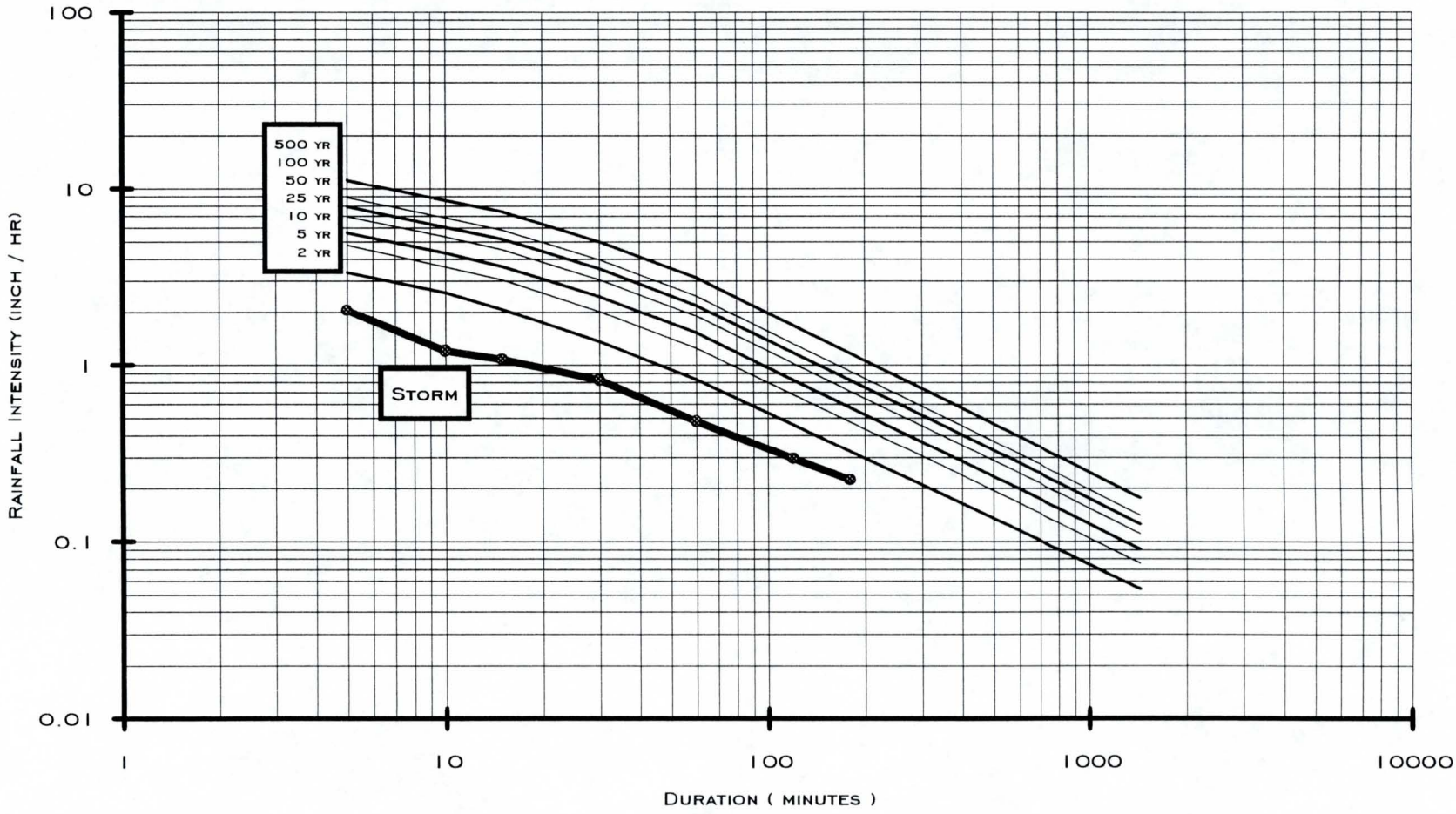
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Total Volume	Rainfall
17-Aug-95	2.311	2.565	2.442	101110	2.442	101110	0
18-Aug-95	2.103	2.326	2.241	193590	2.342	294700	0
19-Aug-95	1.963	56.863	5.935	512720	3.539	807400	0.67
20-Aug-95	3.282	18.605	5.69	491620	4.077	1299000	0.01
21-Aug-95	3.31	52.757	8.17	705920	4.895	2004900	0.36
22-Aug-95	3.259	3.867	3.547	123000	4.67	2127800	0

Mesa 3: Falcon Field

19 August 1995



MESA 3 - FALCON FIELD
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 8/19/95



Mesa 3: Falcon Field - 8/24/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0003
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=27 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 12:01 AM 24AUG95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 70 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 4500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=048.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:44 AM 31OCT1994

	SAMPLE TAKEN					
001-01	12:02 AM	24-Aug-95 011-04	12:47 AM	24-Aug-95 020-06	1:37 AM	24-Aug-95
002-01	12:04 AM	24-Aug-95 012-04	12:52 AM	24-Aug-95 021-07	1:44 AM	24-Aug-95
003-02	12:06 AM	24-Aug-95 013-05	12:57 AM	24-Aug-95 022-07	1:51 AM	24-Aug-95
004-02	12:08 AM	24-Aug-95 014-05	1:02 AM	24-Aug-95 023-07	1:58 AM	24-Aug-95
005-03	12:15 AM	24-Aug-95 015-05	1:07 AM	24-Aug-95 024-07	2:05 AM	24-Aug-95
006-03	12:24 AM	24-Aug-95 016-05	1:13 AM	24-Aug-95 025-08	2:14 AM	24-Aug-95
007-03	12:29 AM	24-Aug-95 017-06	1:19 AM	24-Aug-95 026-08	2:21 AM	24-Aug-95
008-03	12:33 AM	24-Aug-95 018-06	1:25 AM	24-Aug-95 027-08	2:28 AM	24-Aug-95
009-04	12:37 AM	24-Aug-95 019-06	1:31 AM	24-Aug-95 028-08	2:35 AM	24-Aug-95
010-04	12:42 AM	24-Aug-95				

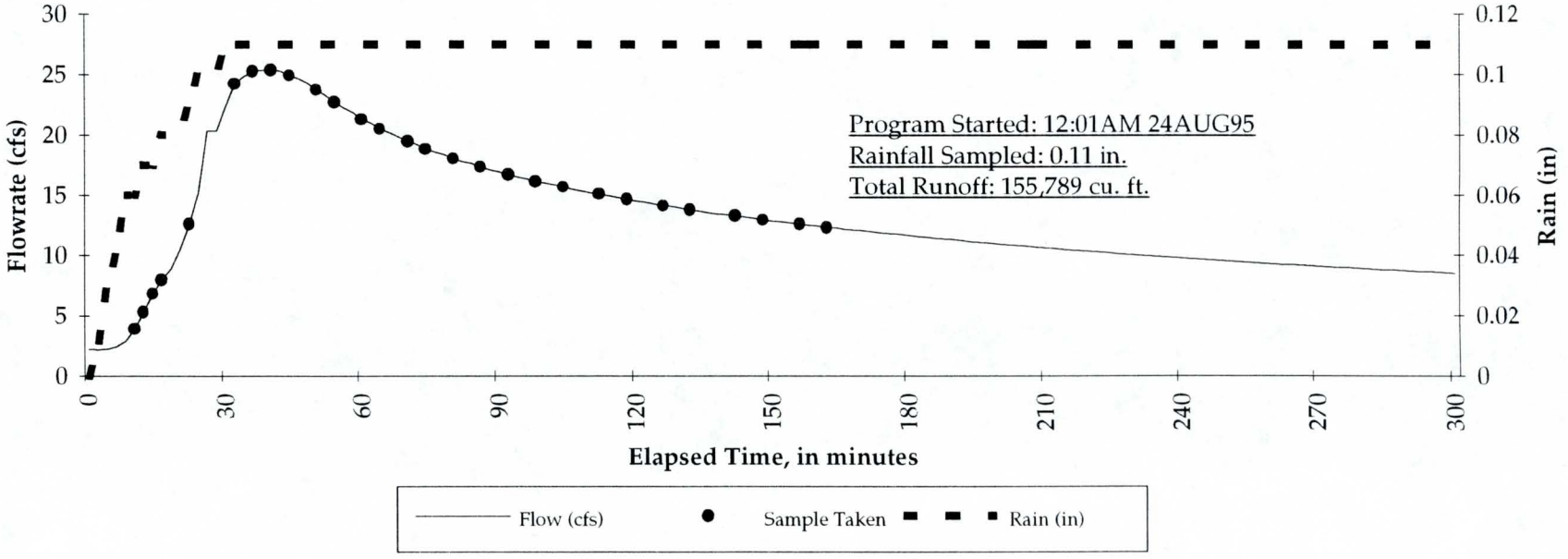
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 12:01 AM 24AUG95

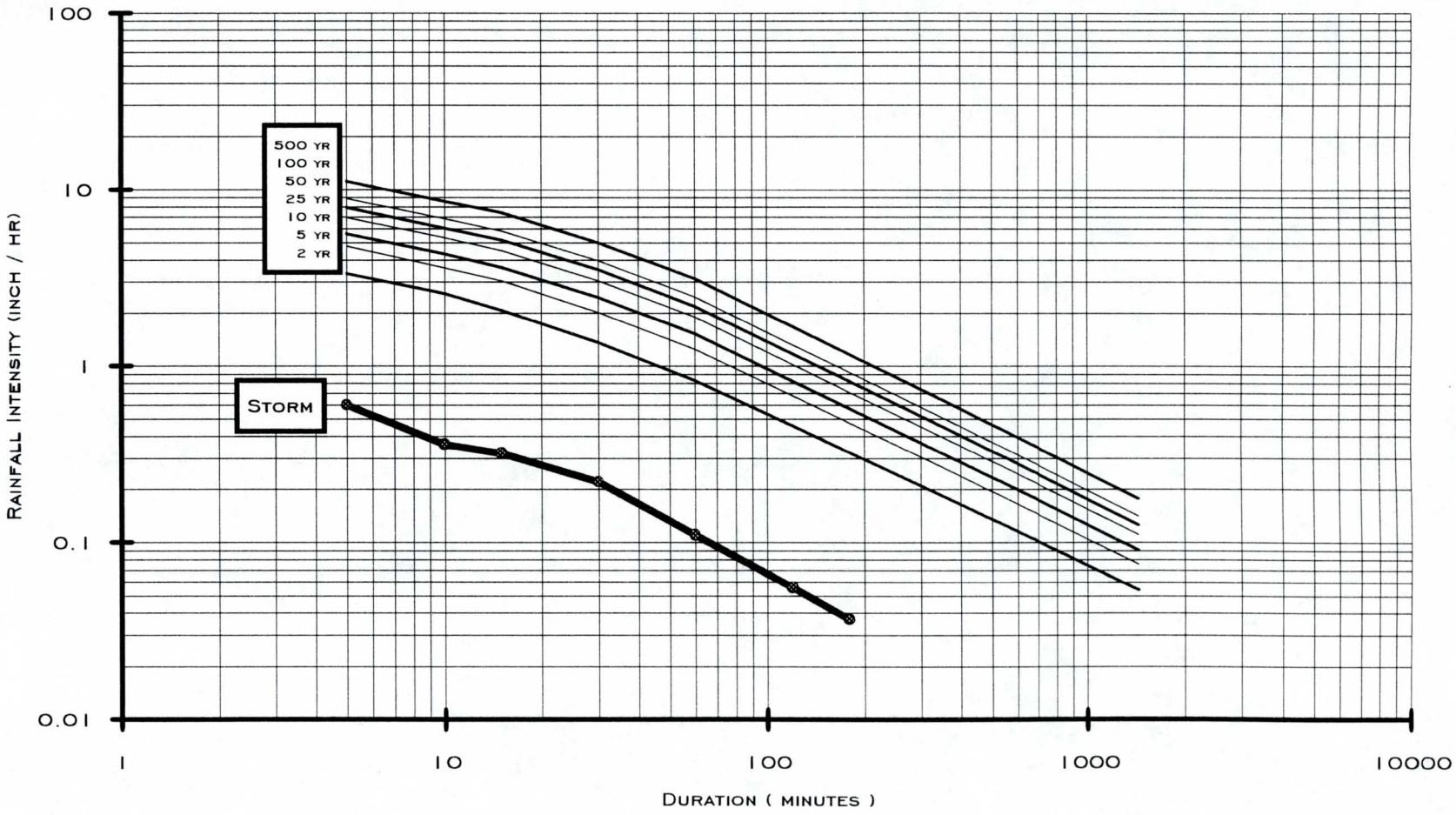
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Total Volume	Cum Avg Flow Rate	Total Volume	Rain
23-Aug-95	2.173	2.529	2.361	103540	2.361	103540	0.03
24-Aug-95	2.402	25.376	10.381	350660	6.371	454200	0.08

Mesa 3: Falcon Field

24 August 1995



MESA 3 - FALCON FIELD
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 8/24/95



Mesa 3: Falcon Field - 9/7/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0003
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=27 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 12:12 AM 7SEP95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 70 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 4500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=048.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:44 AM 31OCT94

	SAMPLE TAKEN					
001-01	12:13 AM	7-Sep-95 011-04	1:55 AM	7-Sep-95 020-06	3:22 AM	7-Sep-95
002-01	12:15 AM	7-Sep-95 012-04	2:04 AM	7-Sep-95 021-07	3:31 AM	7-Sep-95
003-02	12:17 AM	7-Sep-95 013-05	2:13 AM	7-Sep-95 022-07	3:40 AM	7-Sep-95
004-02	12:19 AM	7-Sep-95 014-05	2:22 AM	7-Sep-95 023-07	3:49 AM	7-Sep-95
005-03	12:51 AM	7-Sep-95 015-05	2:31 AM	7-Sep-95 024-07	3:59 AM	7-Sep-95
006-03	1:04 AM	7-Sep-95 016-05	2:40 AM	7-Sep-95 025-08	4:09 AM	7-Sep-95
007-03	1:16 AM	7-Sep-95 017-06	2:55 AM	7-Sep-95 026-08	4:19 AM	7-Sep-95
008-03	1:27 AM	7-Sep-95 018-06	3:04 AM	7-Sep-95 027-08	4:30 AM	7-Sep-95
009-04	1:37 AM	7-Sep-95 019-06	3:13 AM	7-Sep-95 028-08	4:41 AM	7-Sep-95
010-04	1:46 AM	7-Sep-95				

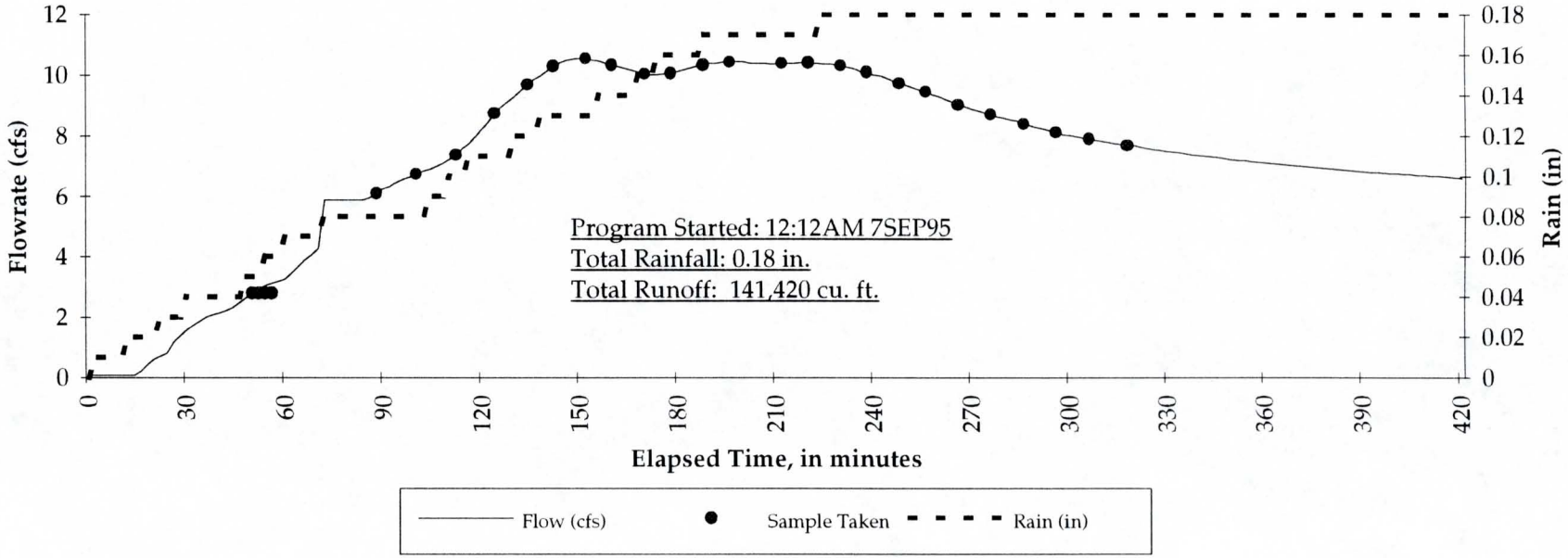
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 12:12 AM 7SEP95

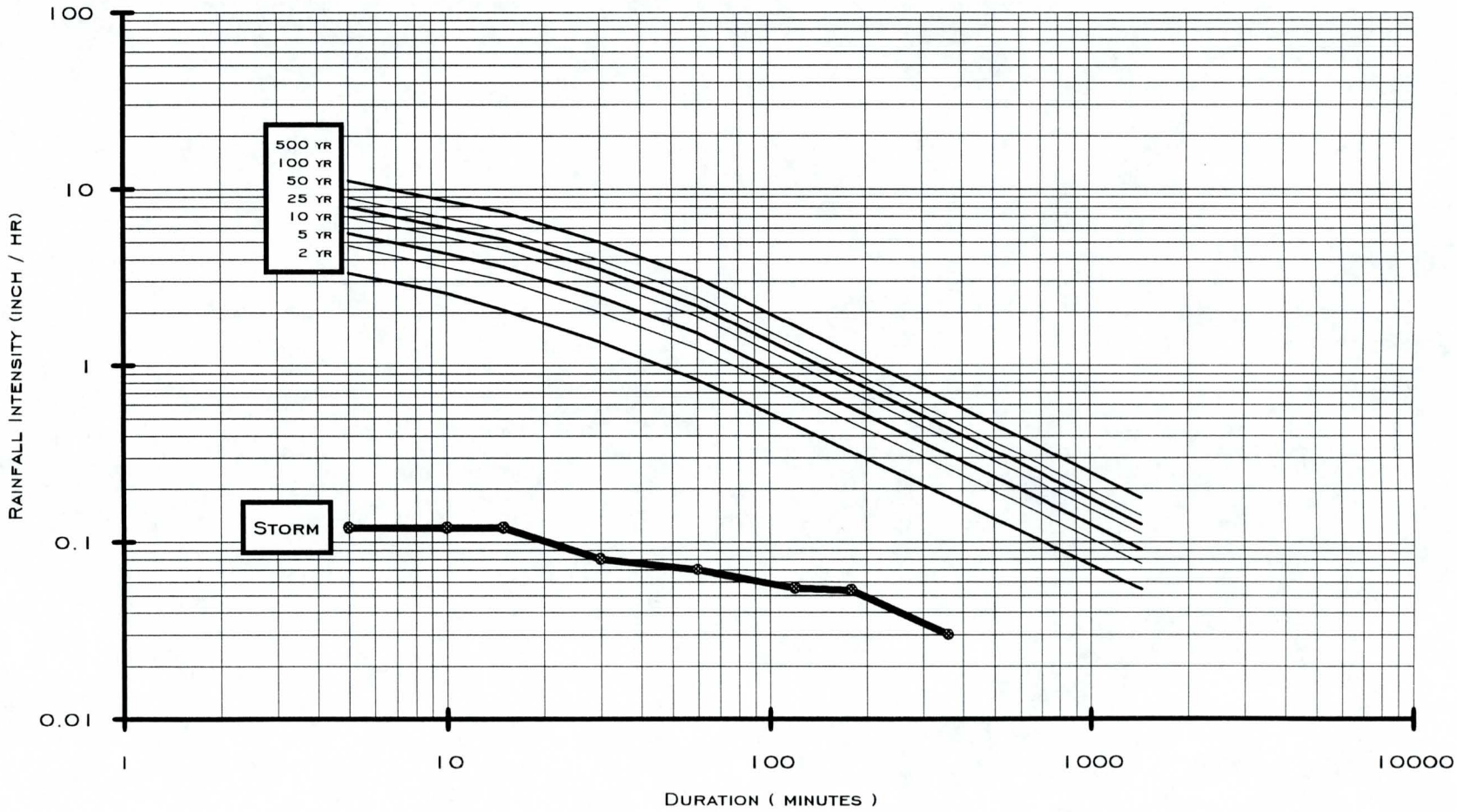
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Total Volume	Rain
5-Sep-95	0.053	0.286	0.129	11110	0.46	192440	0
6-Sep-95	0.068	1.871	0.158	13610	0.417	206050	0.04
7-Sep-95	1.993	10.563	7.1	287960	1.252	494000	0.14

Mesa 3: Falcon Field

7 September 1995



MESA 3 - FALCON FIELD
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 9/7/95



Mesa 3: Falcon Field - 9/28/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0003
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=27 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 11:49 PM 27SEP95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 70 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 6•Z
µ™¨••5ÓE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 4500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=048.00 IN., ROUGHNESS=.013, SL=ƒUZþ0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:44 AM 31OCT94

	SAMPLE TAKEN					
001-01	11:50 PM	27-Sep-95 011-04	12:56 AM	28-Sep-95 020-06	2:21 AM	28-Sep-95
002-01	11:52 PM	27-Sep-95 012-04	1:05 AM	28-Sep-95 021-07	2:24 AM	28-Sep-95
003-02	11:54 PM	27-Sep-95 013-05	1:14 AM	28-Sep-95 022-07	2:27 AM	28-Sep-95
004-02	11:56 PM	27-Sep-95 014-05	1:24 AM	28-Sep-95 023-07	2:30 AM	28-Sep-95
005-03	12:07 AM	28-Sep-95 015-05	1:35 AM	28-Sep-95 024-07	2:34 AM	28-Sep-95
006-03	12:16 AM	28-Sep-95 016-05	1:46 AM	28-Sep-95 025-08	2:37 AM	28-Sep-95
007-03	12:24 AM	28-Sep-95 017-06	1:57 AM	28-Sep-95 026-08	2:40 AM	28-Sep-95
008-03	12:32 AM	28-Sep-95 018-06	2:09 AM	28-Sep-95 027-08	2:43 AM	28-Sep-95
009-04	12:40 AM	28-Sep-95 019-06	2:17 AM	28-Sep-95 028-08	2:46 AM	28-Sep-95
010-04	12:48 AM	28-Sep-95				

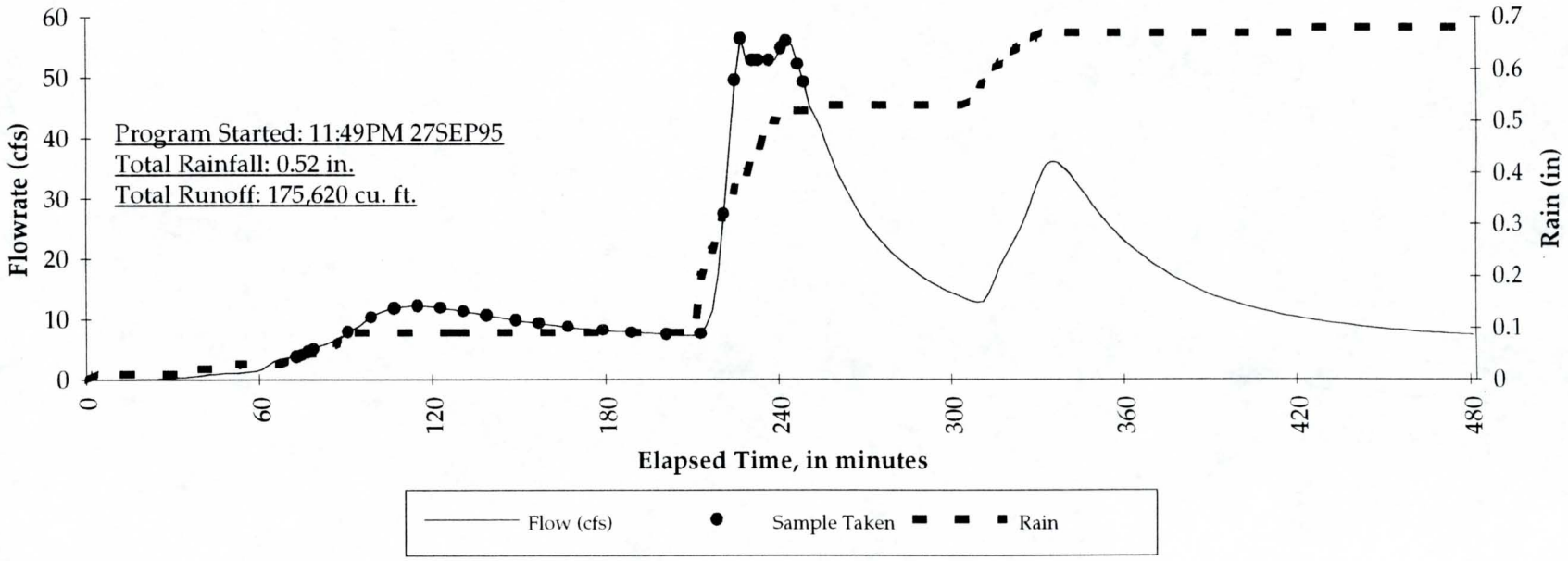
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 11:49 PM 27SEP95

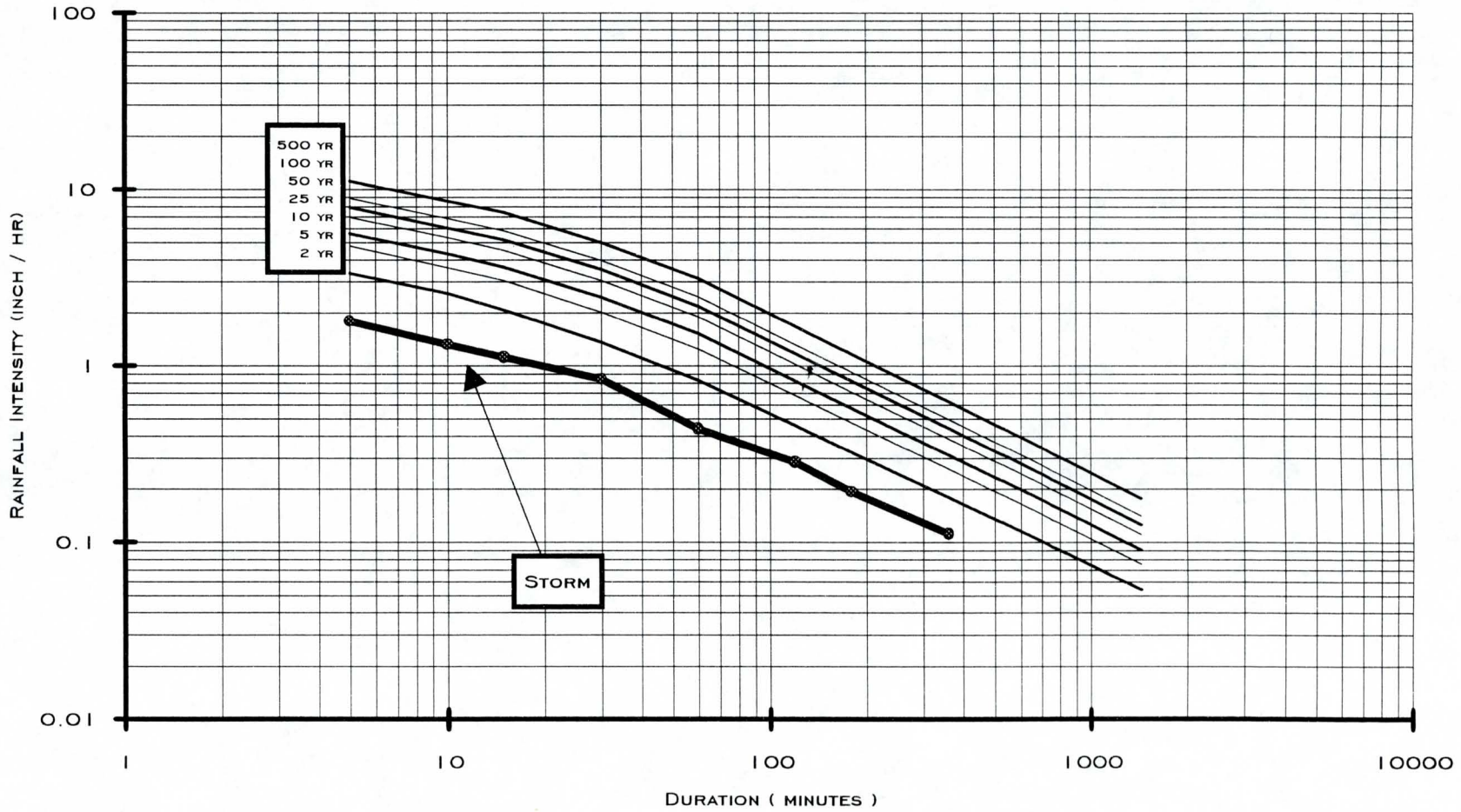
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Total Volume	Rain
26-Sep-95	0	0.097	0.021	1770	0.016	8250	0
27-Sep-95	0	5.445	0.074	6400	0.024	14650	0.05
28-Sep-95	5.77	56.404	15.515	456140	1.961	470780	0.63

Mesa 3: Falcon Field

28 September 1995



MESA 3 - FALCON FIELD
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 9/28/95



MESA 4

Mesa 4: Horne and Grandview - 2/28/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0004
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=73 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 12:20 AM 28FEB95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 1500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=054.00 IN., ROUGHNESS=.013, SLOPE=0.40/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED: 9:31 AM 31OCT94

SAMPLE TAKEN

001-01	12:21 AM	28-Feb-95 011-04	3:15 AM	28-Feb-95 020-06	4:01 AM	28-Feb-95
002-01	12:24 AM	28-Feb-95 012-04	3:18 AM	28-Feb-95 021-07	4:05 AM	28-Feb-95
003-02	12:29 AM	28-Feb-95 013-05	3:22 AM	28-Feb-95 022-07	4:21 AM	28-Feb-95
004-02	12:32 AM	28-Feb-95 014-05	3:26 AM	28-Feb-95 023-07	4:33 AM	28-Feb-95
005-03	2:40 AM	28-Feb-95 015-05	3:29 AM	28-Feb-95 024-07	4:43 AM	28-Feb-95
006-03	2:52 AM	28-Feb-95 016-05	3:32 AM	28-Feb-95 025-08	4:57 AM	28-Feb-95
007-03	2:58 AM	28-Feb-95 017-06	3:35 AM	28-Feb-95 026-08	5:01 AM	28-Feb-95
008-03	3:04 AM	28-Feb-95 018-06	3:39 AM	28-Feb-95 027-08	5:12 AM	28-Feb-95
009-04	3:08 AM	28-Feb-95 019-06	3:46 AM	28-Feb-95 028-08	5:28 AM	28-Feb-95
010-04	3:12 AM	28-Feb-95				

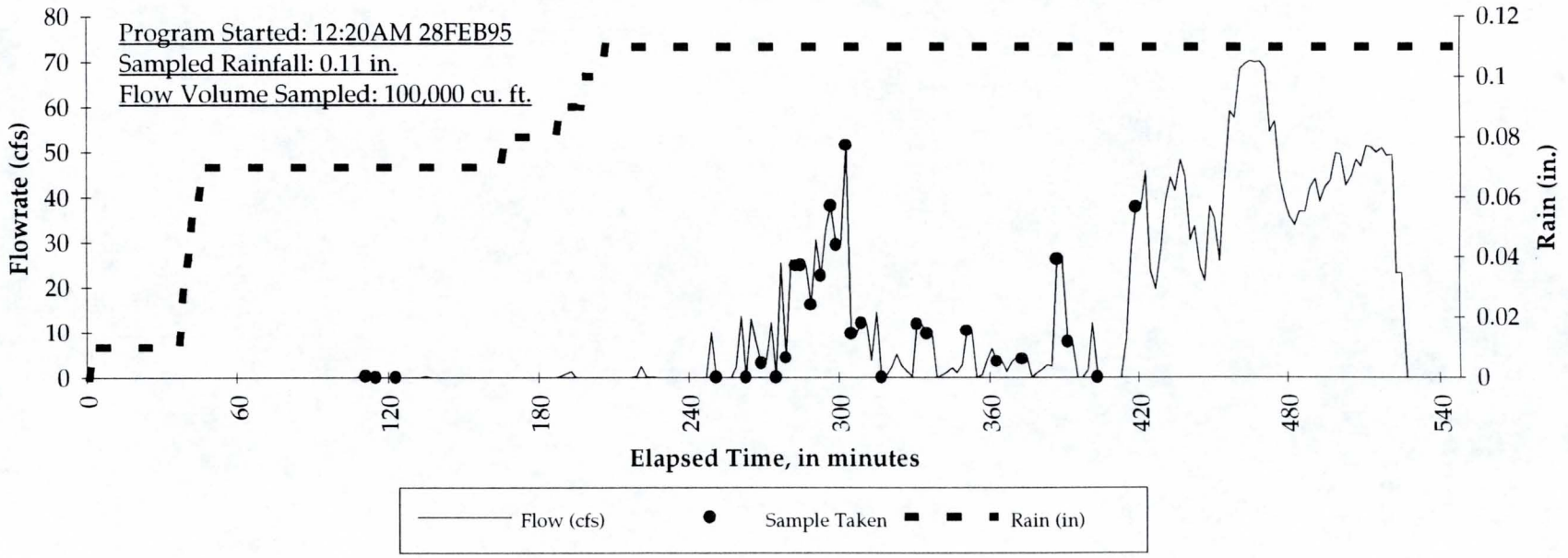
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 12:20 AM 28FEB95

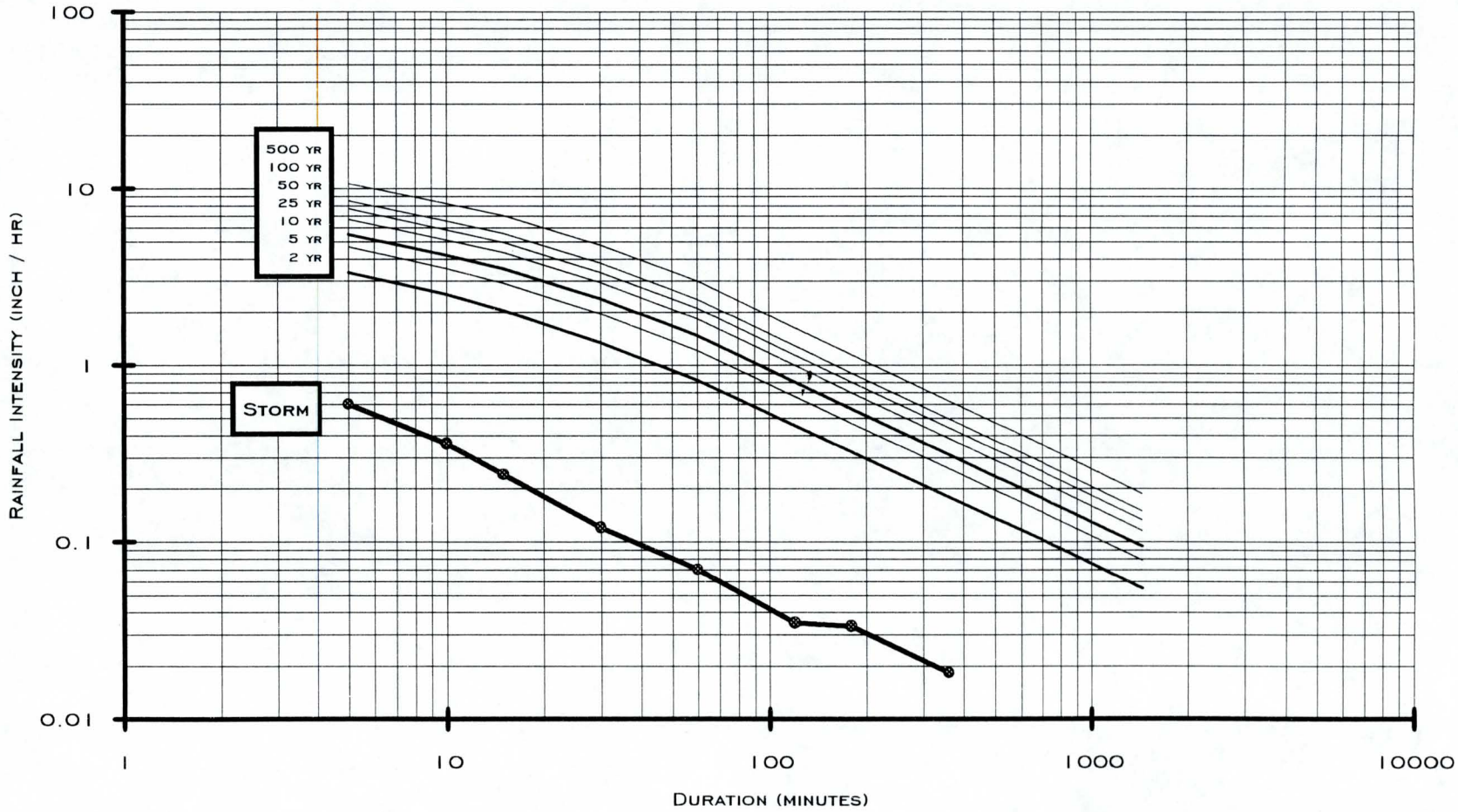
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Flow Total	Cum Avg Daily Flow Rate	Cumulative Total Volume	Rain
27-Feb-95	0	15.207	2.491	133740	2.491	133740	0.07
28-Feb-95	0	70.171	12.487	376080	7.488	509840	0.04

Mesa 4: Horne and Grandview

28 February 1995



MESA 4 - HORNE AND GRANDVIEW
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 2/28/95



Mesa 4: Horne and Grandview - 3/5/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0004
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=73 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 10:35 PM 5MAR95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 1500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=054.00 IN., ROUGHNESS=.013, SLOPE=0.40/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED: 9:31 AM 31OCT94

SAMPLE TAKEN

001-01	10:36 PM	5-Mar-95 011-04	11:06 PM	5-Mar-95 020-06	11:33 PM	5-Mar-95
002-03	10:36 PM	5-Mar-95 012-04	11:09 PM	5-Mar-95 021-07	11:36 PM	5-Mar-95
003-01	10:42 PM	5-Mar-95 013-05	11:12 PM	5-Mar-95 022-07	12:10 AM	6-Mar-95
004-03	10:42 PM	5-Mar-95 014-05	11:15 PM	5-Mar-95 023-07	12:13 AM	6-Mar-95
005-02	10:48 PM	5-Mar-95 015-05	11:18 PM	5-Mar-95 024-07	12:17 AM	6-Mar-95
006-03	10:48 PM	5-Mar-95 016-05	11:21 PM	5-Mar-95 025-08	12:20 AM	6-Mar-95
007-02	10:54 PM	5-Mar-95 017-06	11:24 PM	5-Mar-95 026-08	12:23 AM	6-Mar-95
008-03	10:54 PM	5-Mar-95 018-06	11:27 PM	5-Mar-95 027-08	12:26 AM	6-Mar-95
009-04	11:00 PM	5-Mar-95 019-06	11:30 PM	5-Mar-95 028-08	12:29 AM	6-Mar-95
010-04	11:03 PM	5-Mar-95				

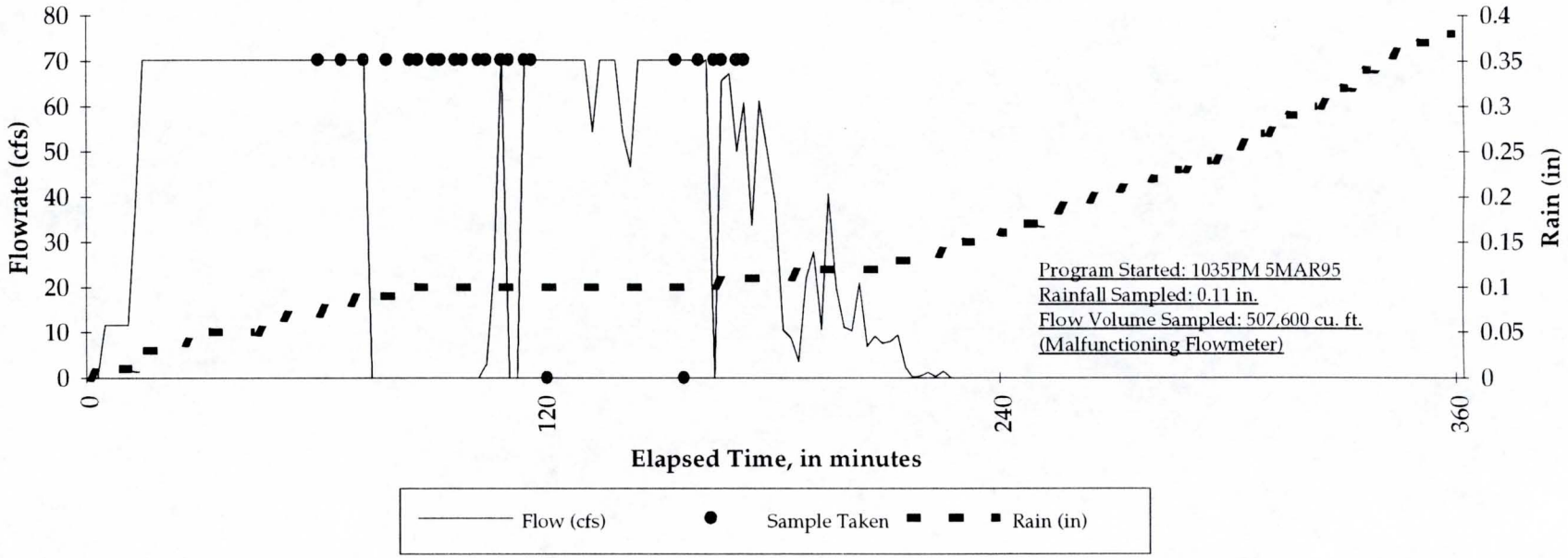
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 10:35 PM 5MAR95

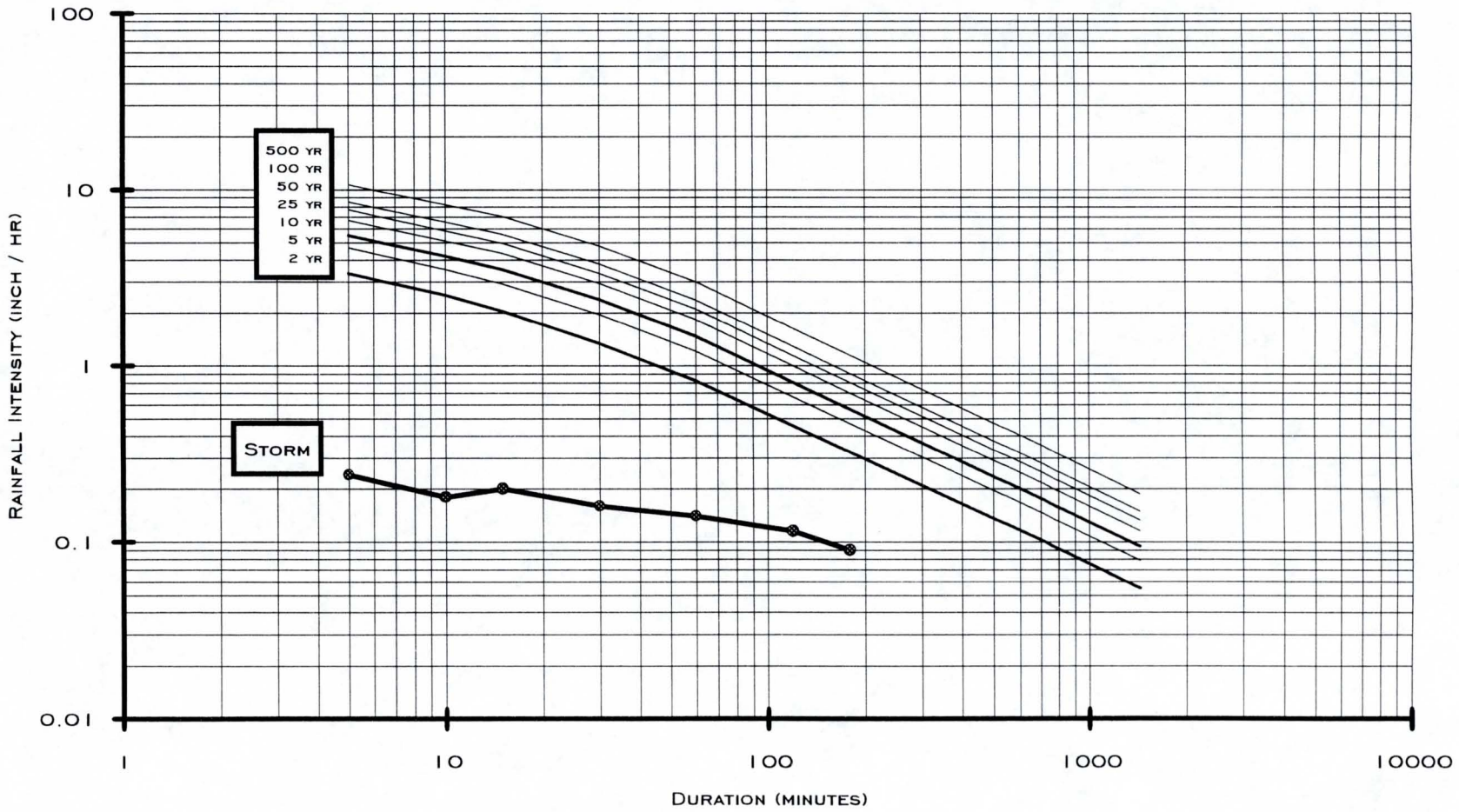
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Flow Total	Cum Avg Flow Rate	Cumulative Flow Volume	Rain
5-Mar-95	0	70.23	13.257	1135800	3.314	1135800	0.25
6-Mar-95	0	70.23	51.132	4417600	12.877	5553600	0.57
7-Mar-95	0	70.23	67.41	2086900	21.964	7640400	0

Mesa 4: Horne and Grandview

5 March 1995



MESA 4 - HORNE AND GRANDVIEW
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 3/5/95



Mesa 4: Horne and Grandview - 11/5/95

SIGMA DTU REV: 4.01
SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0004
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=73 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 8:06 PM 5NOV95
COLLECTED 0 SAMPLES IN BOTTLE 8
4 REMAINING
0 BOTTLES TO GO
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 1500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=054.00 IN., ROUGHNESS=.013, SLOPE=0.40/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:12:32 PM 22AUG95

SAMPLE TAKEN

001-01	8:07 PM	5-Nov-95	009-04	9:43 PM	5-Nov-95	017-06	12:06 AM	6-Nov-95
002-01	8:10 PM	5-Nov-95	010-04	10:05 PM	5-Nov-95	018-06	12:13 AM	6-Nov-95
003-02	8:14 PM	5-Nov-95	011-04	10:35 PM	5-Nov-95	019-06	12:20 AM	6-Nov-95
004-02	8:17 PM	5-Nov-95	012-04	11:16 PM	5-Nov-95	020-06	12:27 AM	6-Nov-95
005-03	8:37 PM	5-Nov-95	013-05	11:31 PM	5-Nov-95	021-07	12:35 AM	6-Nov-95
006-03	8:51 PM	5-Nov-95	014-05	11:41 PM	5-Nov-95	022-07	12:45 AM	6-Nov-95
007-03	9:05 PM	5-Nov-95	015-05	11:51 PM	5-Nov-95	023-07	12:59 AM	6-Nov-95
008-03	9:22 PM	5-Nov-95	016-05	11:59 PM	5-Nov-95	024-07	1:19 AM	6-Nov-95

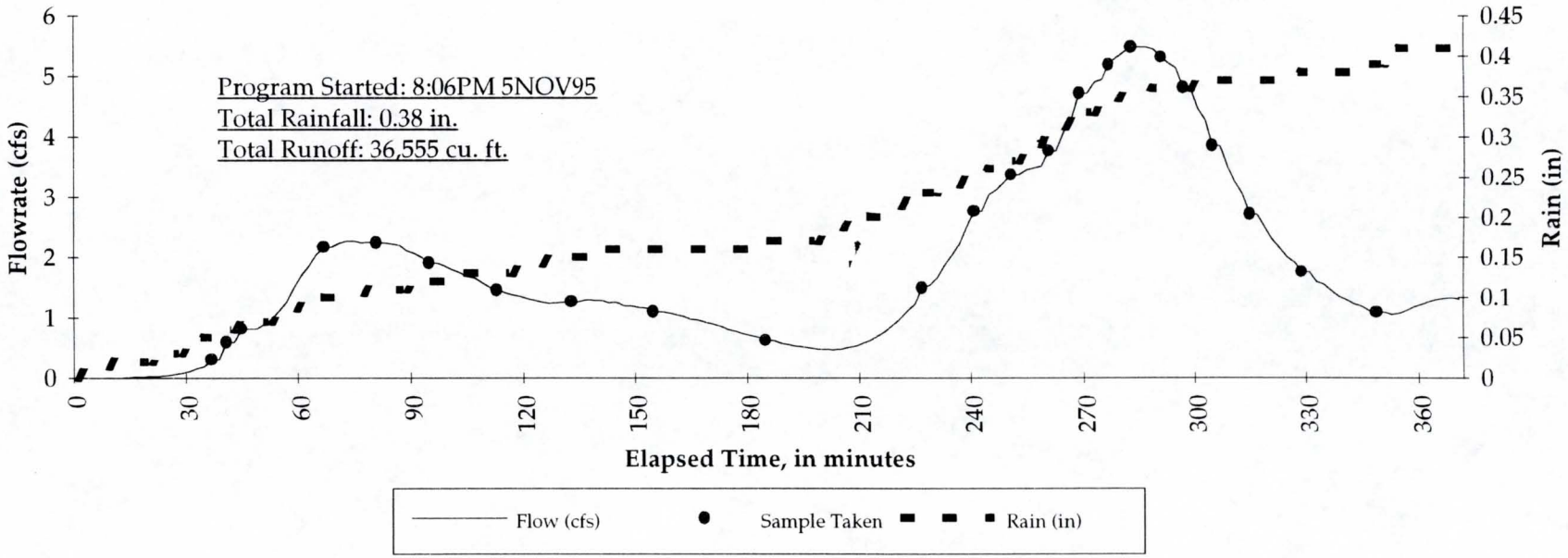
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 8:06 PM 5NOV95

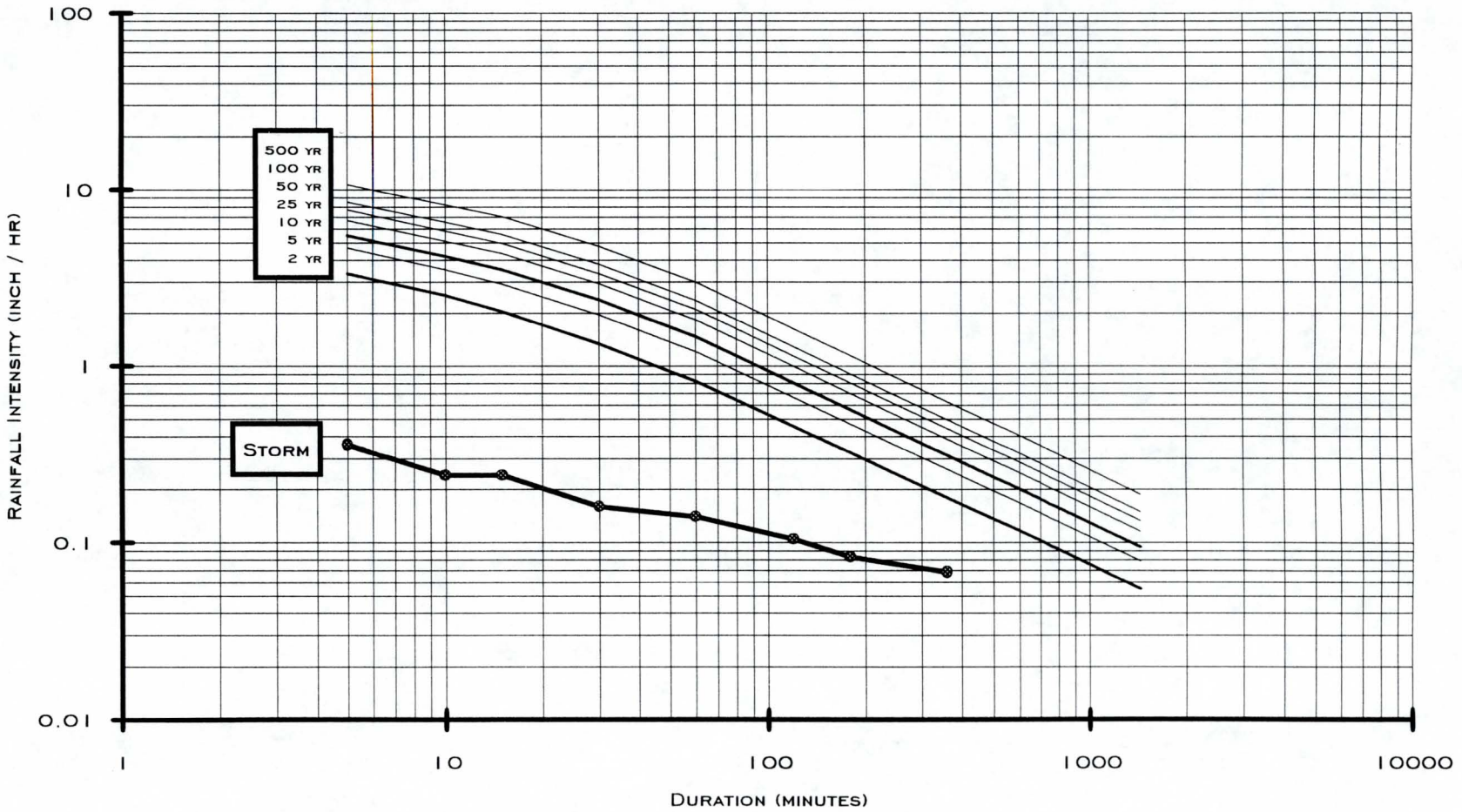
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Total Volume	Rain
2-Nov-95	0.003	0.144	0.043	2290	0.043	2290	0
3-Nov-95	0	0.03	0.007	630	0.025	2920	0
4-Nov-95	0.001	0.026	0.006	490	0.019	3420	0
5-Nov-95	0	4.345	0.248	21390	0.076	24810	0.32
6-Nov-95	1.051	5.486	2.951	18410	0.651	43220	0.09

Mesa 4: Horne and Grandview

5 November 1995



MESA 4 - HORNE AND GRANDVIEW
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 11/6/95



Mesa 4: Horne and Grandview - 2/1/96
SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0004
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=73 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 11:35 PM 31JAN96
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 1500CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=054.00 IN., ROUGHNESS=.013, SLOPE=0.40/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:12:32 PM 22AUG95

SAMPLE TAKEN

001-01	11:36 PM	31-Jan-96 011-04	10:47 AM	1-Feb-96 020-06	11:41 AM	1-Feb-96
002-01	11:39 PM	31-Jan-96 012-04	10:54 AM	1-Feb-96 021-07	11:52 AM	1-Feb-96
003-02	11:42 PM	31-Jan-96 013-05	10:59 AM	1-Feb-96 022-07	12:04 PM	1-Feb-96
004-02	11:46 PM	31-Jan-96 014-05	11:04 AM	1-Feb-96 023-07	12:18 PM	1-Feb-96
005-03	11:55 PM	31-Jan-96 015-05	11:09 AM	1-Feb-96 024-07	12:33 PM	1-Feb-96
006-03	12:03 AM	1-Feb-96 016-05	11:14 AM	1-Feb-96 025-08	12:55 PM	1-Feb-96
007-03	12:11 AM	1-Feb-96 017-06	11:20 AM	1-Feb-96 026-08	1:42 PM	1-Feb-96
008-03	12:22 AM	1-Feb-96 018-06	11:26 AM	1-Feb-96 027-08	6:28 PM	1-Feb-96
009-04	12:44 AM	1-Feb-96 019-06	11:33 AM	1-Feb-96 028-08	6:38 PM	1-Feb-96
010-04	8:40 AM	1-Feb-96				

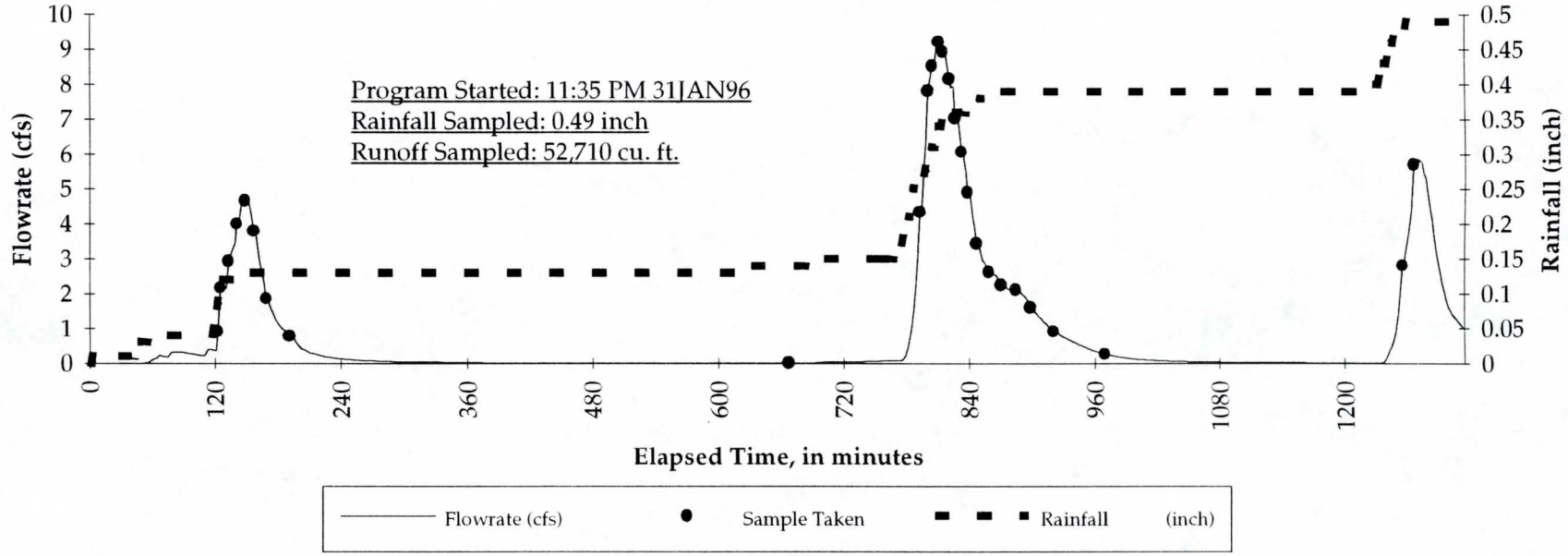
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 11:35 PM 31JAN96

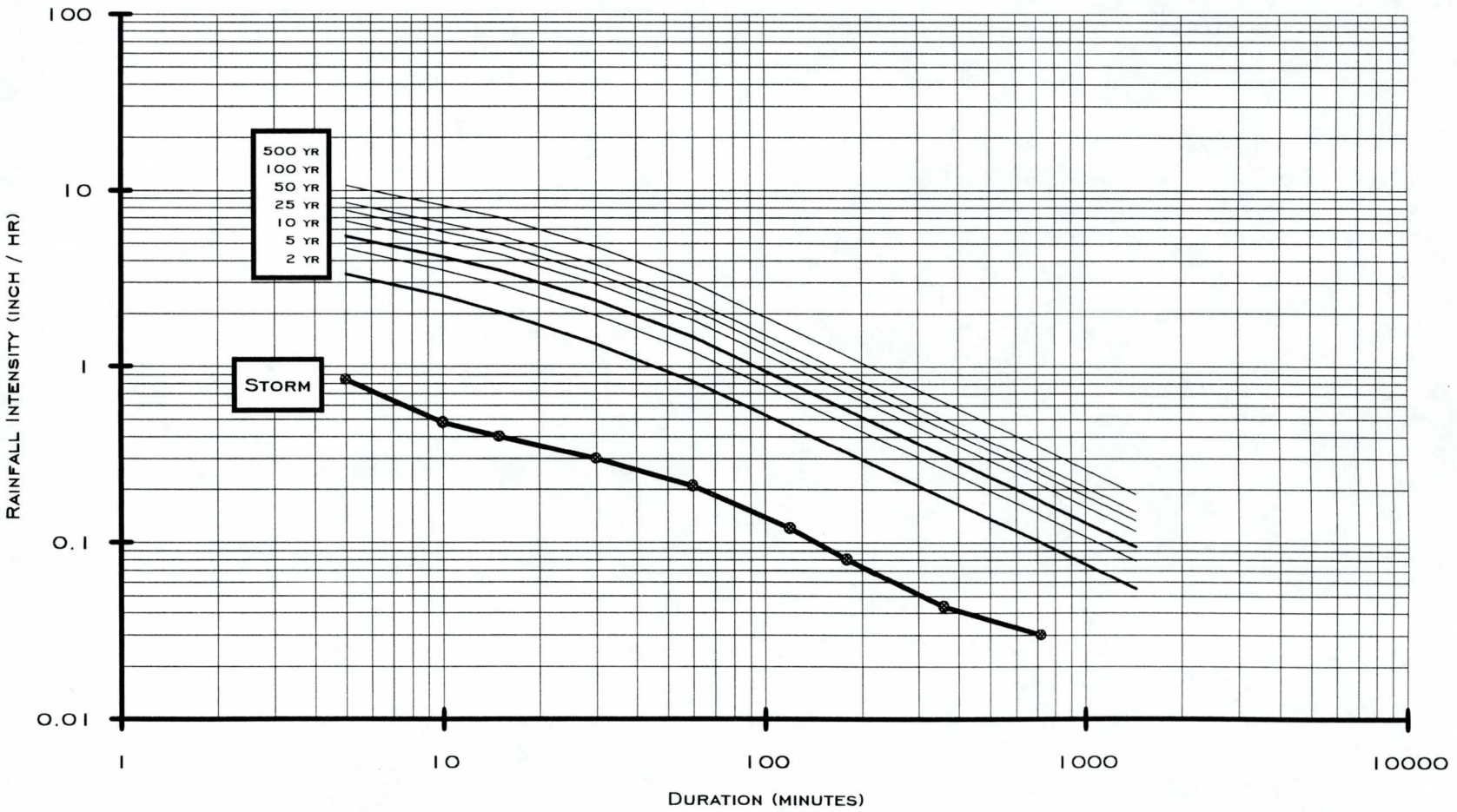
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Total Volume	Rainfall
30-Jan-96	0	0.002	0.001	40	0.001	40	0
31-Jan-96	0	3.997	0.055	4720	0.028	4770	0.12
1-Feb-96	0.005	9.223	0.688	59410	0.248	64180	0.37
2-Feb-96	0.003	0.019	0.006	180	0.187	64360	0

Mesa 4: Horne and Grandview

1 February 1996



MESA 4 - HORNE AND GRANDVIEW
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 2/1/96



MESA 5

Mesa 5: Dobson south of Broadway - 3/5/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0005
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=71 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: VERTICAL
PROGRAM STARTED: 7:54 PM 5MAR95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 2000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=030.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:30 AM 31OCT94

SAMPLE TAKEN

001-01	7:55 PM	5-Mar-95 011-04	9:33 PM	5-Mar-95 020-06	11:16 PM	5-Mar-95
002-01	7:59 PM	5-Mar-95 012-04	10:13 PM	5-Mar-95 021-07	11:24 PM	5-Mar-95
003-02	8:03 PM	5-Mar-95 013-05	10:24 PM	5-Mar-95 022-07	11:32 PM	5-Mar-95
004-02	8:07 PM	5-Mar-95 014-05	10:32 PM	5-Mar-95 023-07	11:40 PM	5-Mar-95
005-03	8:16 PM	5-Mar-95 015-05	10:39 PM	5-Mar-95 024-07	11:48 PM	5-Mar-95
006-03	8:26 PM	5-Mar-95 016-05	10:46 PM	5-Mar-95 025-08	11:57 PM	5-Mar-95
007-03	8:34 PM	5-Mar-95 017-06	10:53 PM	5-Mar-95 026-08	12:06 AM	6-Mar-95
008-03	8:43 PM	5-Mar-95 018-06	11:00 PM	5-Mar-95 027-08	12:17 AM	6-Mar-95
009-04	8:54 PM	5-Mar-95 019-06	11:08 PM	5-Mar-95 028-08	12:30 AM	6-Mar-95
010-04	9:07 PM	5-Mar-95				

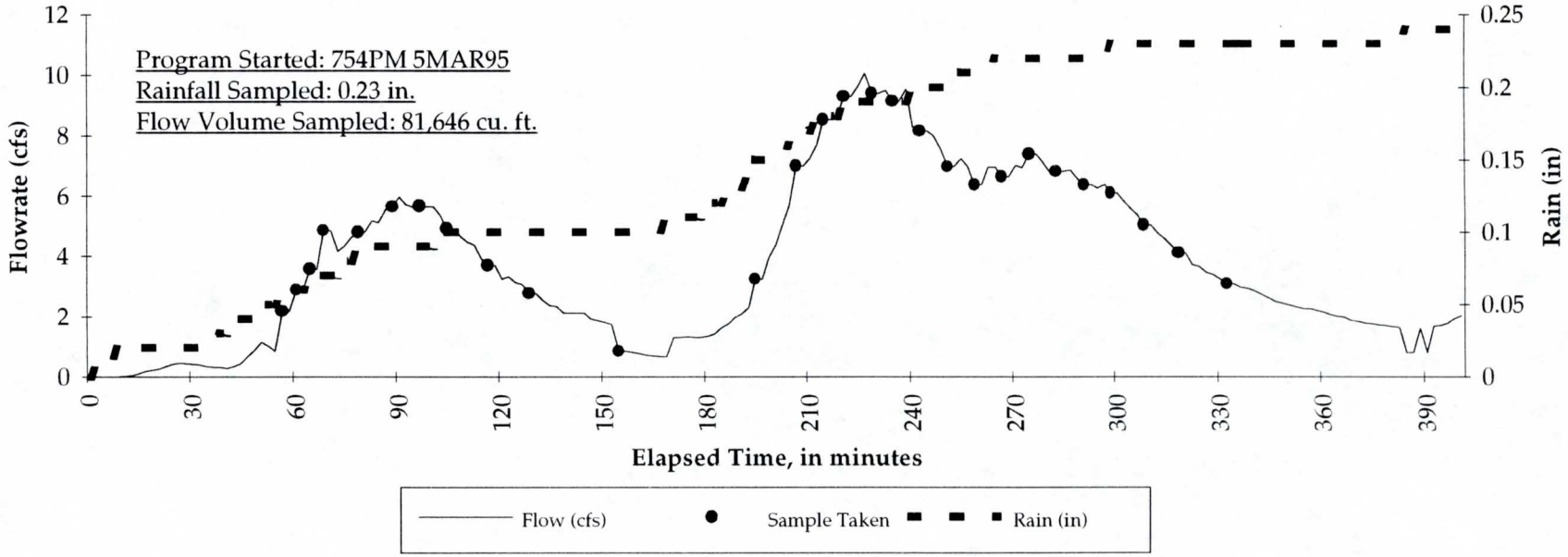
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 7:54 PM 5MAR95

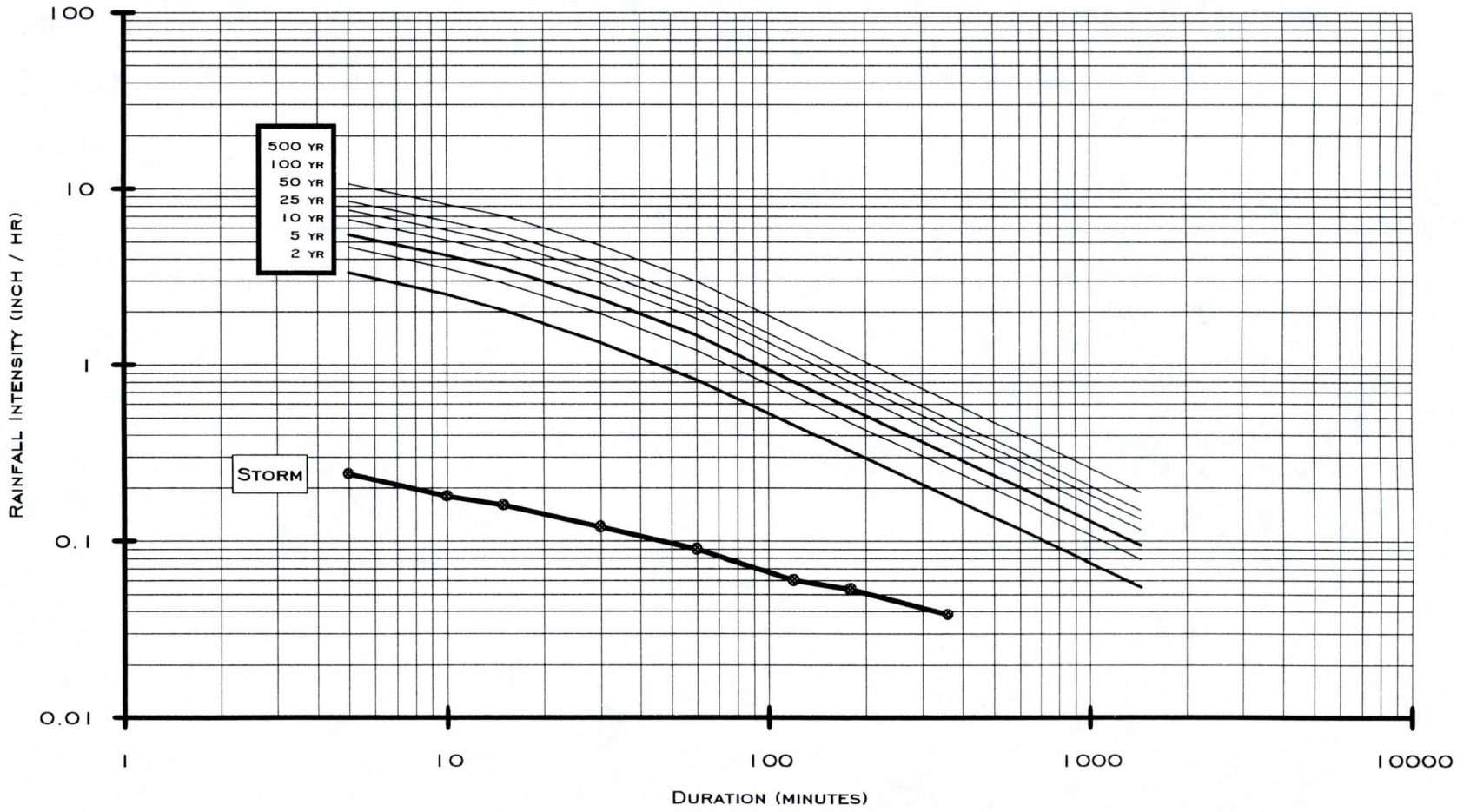
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Flow Volume	Cum Avg Daily Flow Rate	Cumulative Flow Volume	Rain
5-Mar-95	0	10.074	0.83	71500	0.21	72470	0.23
6-Mar-95	0	16.209	3.93	338800	0.954	411280	0.52
7-Mar-95	0	7.561	0.089	2810	0.81	414080	0

Mesa 5: Dobson south of Broadway

5 March 1995



MESA 5 - DOBSON ROAD SOUTH OF BROADWAY
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 3/5/95



Mesa 5: Dobson south of Broadway - 3/11/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0005
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=71 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: VERTICAL
PROGRAM STARTED: 12:40PM 11MAR95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 2000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=030.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:30 AM 31OCT94

SAMPLE TAKEN

001-01	12:41 PM	11-Mar-95 011-04	6:30 PM	11-Mar-95 020-06	9:15 PM	11-Mar-95
002-01	12:45 PM	11-Mar-95 012-04	6:44 PM	11-Mar-95 021-07	9:21 PM	11-Mar-95
003-02	12:49 PM	11-Mar-95 013-05	7:11 PM	11-Mar-95 022-07	9:28 PM	11-Mar-95
004-02	12:53 PM	11-Mar-95 014-05	7:45 PM	11-Mar-95 023-07	9:36 PM	11-Mar-95
005-03	1:08 PM	11-Mar-95 015-05	8:37 PM	11-Mar-95 024-07	9:44 PM	11-Mar-95
006-03	1:22 PM	11-Mar-95 016-05	8:50 PM	11-Mar-95 025-08	9:53 PM	11-Mar-95
007-03	1:39 PM	11-Mar-95 017-06	8:57 PM	11-Mar-95 026-08	10:02 PM	11-Mar-95
008-03	2:20 PM	11-Mar-95 018-06	9:03 PM	11-Mar-95 027-08	10:11 PM	11-Mar-95
009-04	6:03 PM	11-Mar-95 019-06	9:09 PM	11-Mar-95 028-08	10:21 PM	11-Mar-95
010-04	6:18 PM	11-Mar-95				

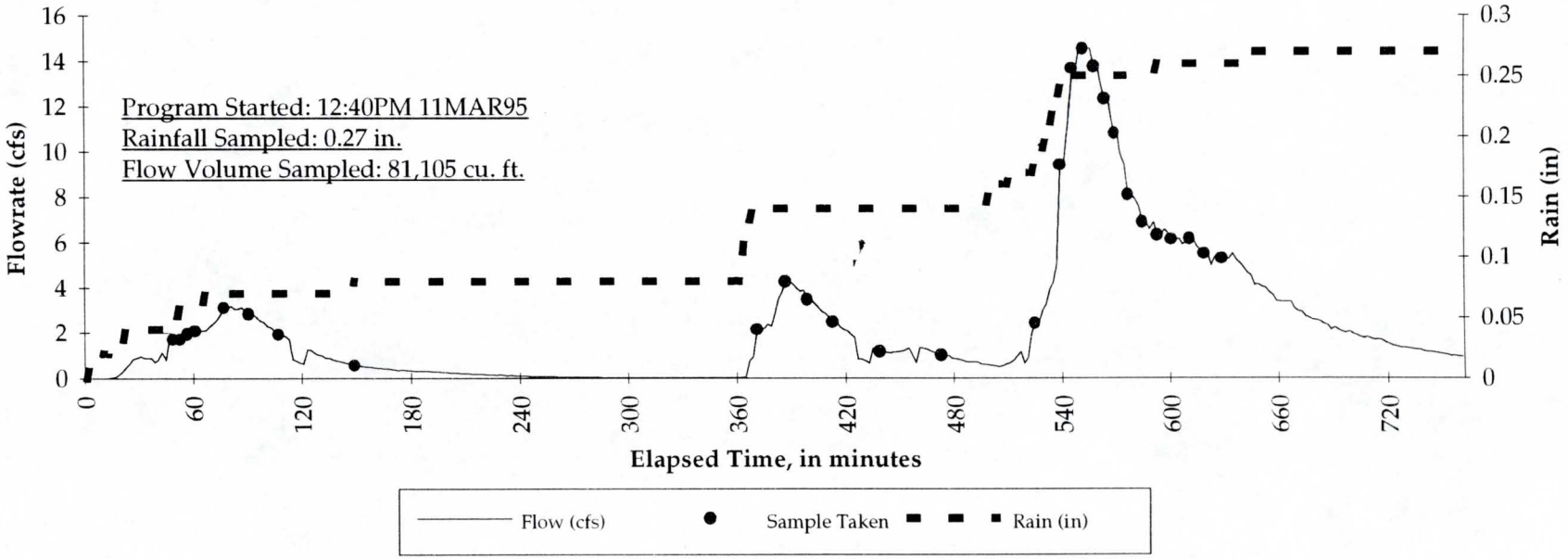
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 12:40PM 11MAR95

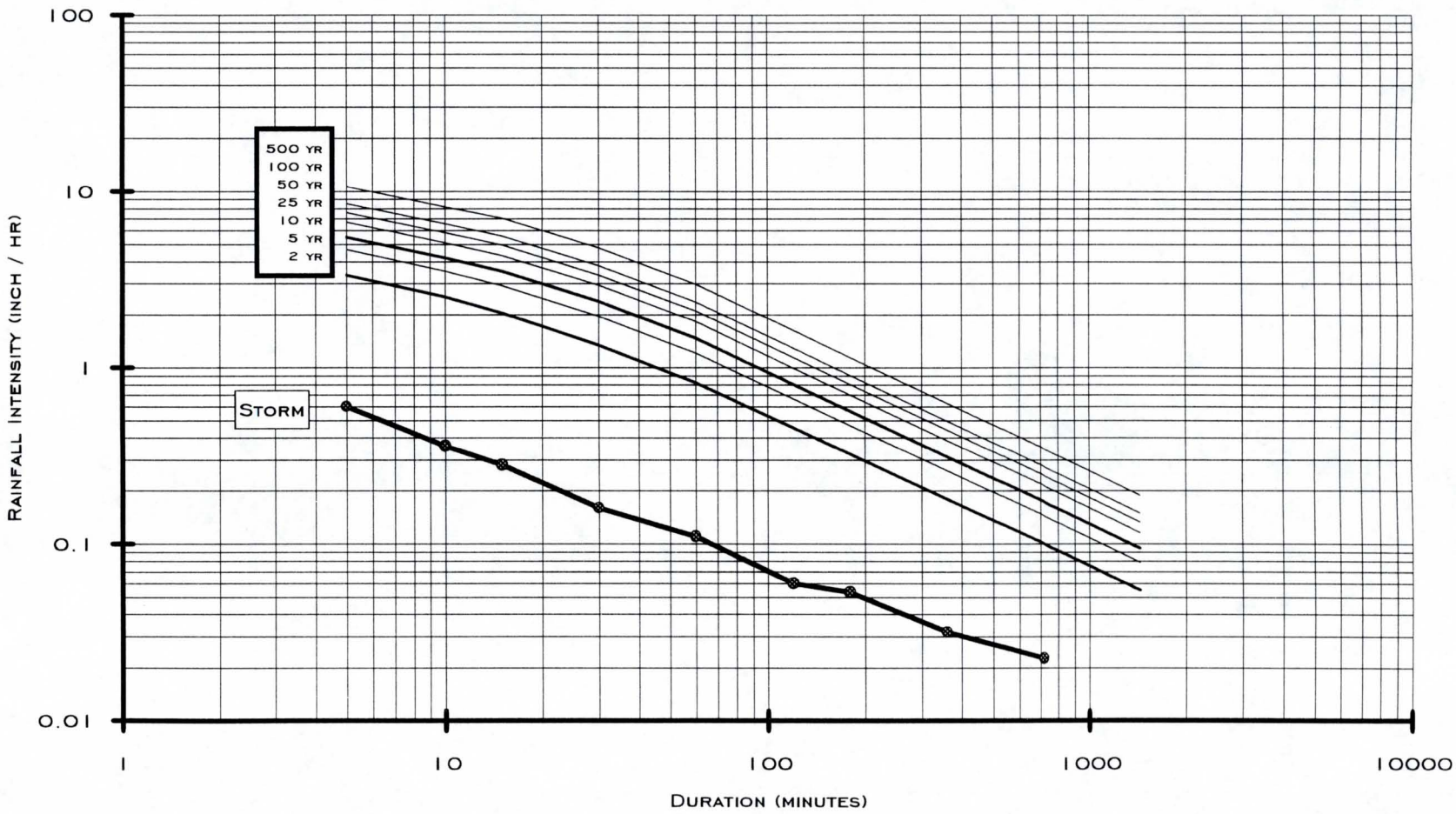
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Flow	Cum Avg Daily Flow Rate	Cumulative Total Flow	Rain
9-Mar-95	0	7.549	0.033	1760	0.033	1760	0
10-Mar-95	0	0.001	0	0	0.017	1760	0
11-Mar-95	0	14.632	1.122	96340	0.385	98100	0.27
12-Mar-95	0	1.299	0.092	7900	0.312	106000	0
13-Mar-95	0	0.005	0	0	0.249	106000	0

Mesa 5: Dobson south of Broadway

11 March 1995



MESA 5 - DOBSON ROAD SOUTH OF BROADWAY
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 3/11/95



Mesa 5: Dobson south of Broadway - 4/18/95

SITE I.D.#: 0005
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=71 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: VERTICAL
PROGRAM STARTED: 10:08 PM 18APR95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 2000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE, 2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=030.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:30 AM 31OCT94

	SAMPLE TAKEN					
001-01	10:09 PM	18-Apr-95	011-04	12:17 AM	19-Apr-95	020-06	4:49 AM	19-Apr-95
002-01	10:13 PM	18-Apr-95	012-04	12:34 AM	19-Apr-95	021-07	4:55 AM	19-Apr-95
003-02	10:17 PM	18-Apr-95	013-05	12:41 AM	19-Apr-95	022-07	5:02 AM	19-Apr-95
004-02	10:21 PM	18-Apr-95	014-05	12:47 AM	19-Apr-95	023-07	5:14 AM	19-Apr-95
005-03	11:18 PM	18-Apr-95	015-05	12:54 AM	19-Apr-95	024-07	5:20 AM	19-Apr-95
006-03	11:29 PM	18-Apr-95	016-05	1:00 AM	19-Apr-95	025-08	5:26 AM	19-Apr-95
007-03	11:37 PM	18-Apr-95	017-06	1:08 AM	19-Apr-95	026-08	5:38 AM	19-Apr-95
008-03	11:44 PM	18-Apr-95	018-06	2:32 AM	19-Apr-95	027-08	5:45 AM	19-Apr-95
009-04	11:53 PM	18-Apr-95	019-06	4:08 AM	19-Apr-95	028-08	5:51 AM	19-Apr-95
010-04	12:03 AM	19-Apr-95						

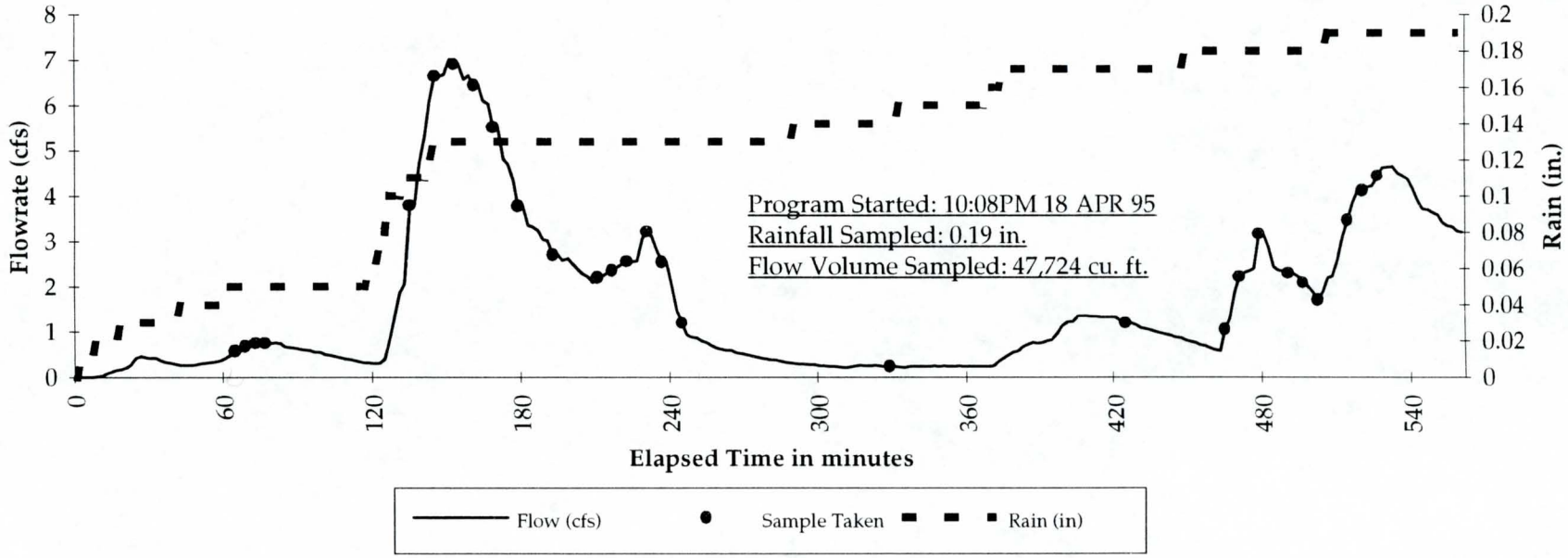
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 10:08 PM 18APR95

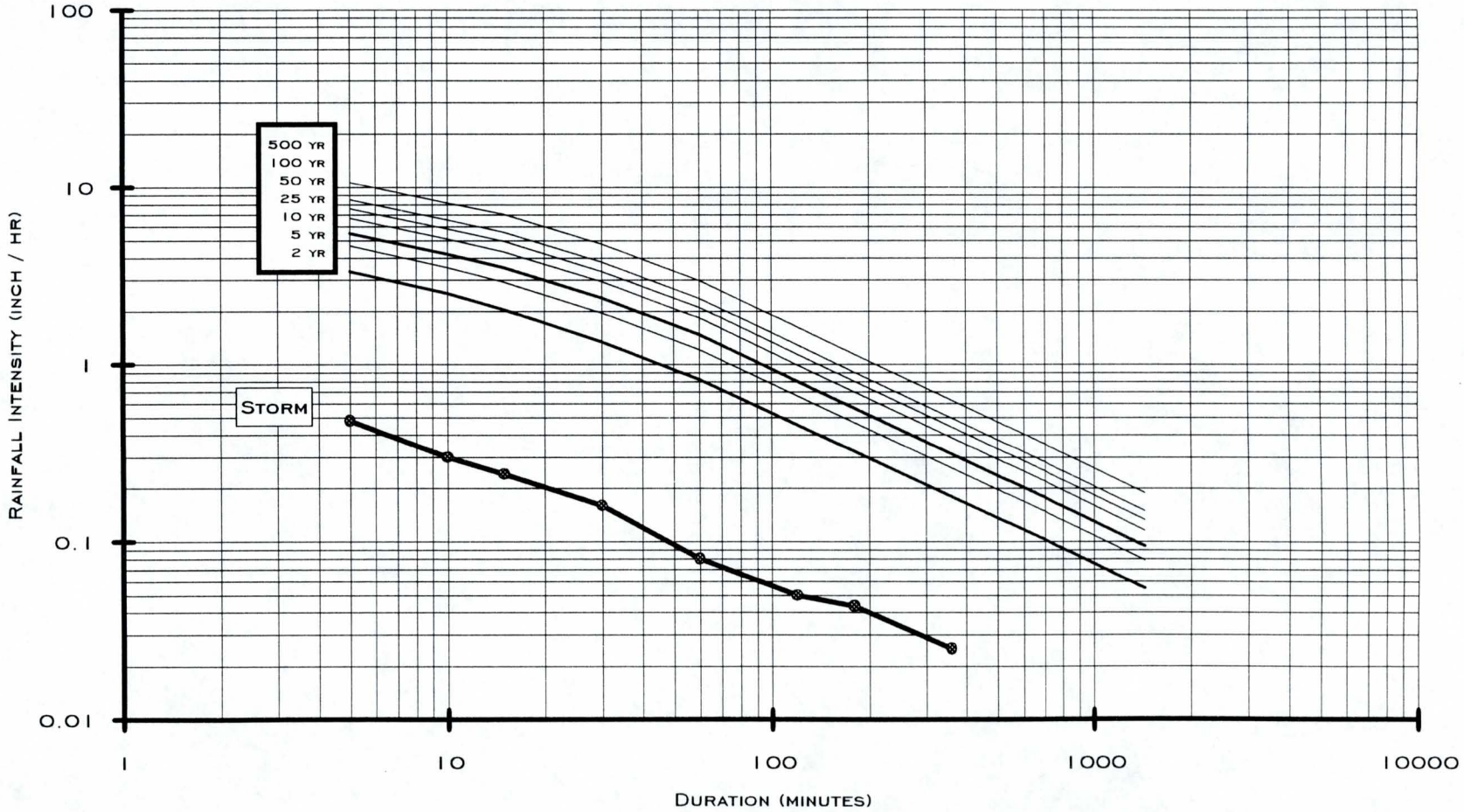
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Daily Flow Total	Cum Avg Flow Rate	Cumulative Flow Volume	Rain
18-Apr-95	0	7.606	0.441	18710	0.441	18710	0.13
19-Apr-95	0	15.097	2.435	124900	1.438	143610	0.06

Mesa 5: Dobson south of Broadway

18 April 1995



MESA 5 - DOBSON ROAD SOUTH OF BROADWAY
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 4/19/95



Mesa 5: Dobson south of Broadway - 5/7/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0005
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=71 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: VERTICAL
PROGRAM STARTED: 4:22 AM 7MAY95
COLLECTED 3 SAMPLES IN BOTTLE 5
1 REMAINING
3 BOTTLES TO GO
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 2000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 2880 MIN
MANNING FORMULA: I.D.=030.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:30 AM 31OCT94

	SAMPLE TAKEN					
001-01	4:23 AM	7-May-95	006-03	4:54 AM	7-May-95 011-04	7:03 AM 7-May-95
002-01	4:27 AM	7-May-95	007-03	5:08 AM	7-May-95 012-04	7:11 AM 7-May-95
003-02	4:31 AM	7-May-95	008-03	5:37 AM	7-May-95 013-05	7:18 AM 7-May-95
004-02	4:35 AM	7-May-95	009-04	6:49 AM	7-May-95 014-05	7:46 AM 7-May-95
005-03	4:43 AM	7-May-95	010-04	6:54 AM	7-May-95 015-05	7:51 AM 7-May-95

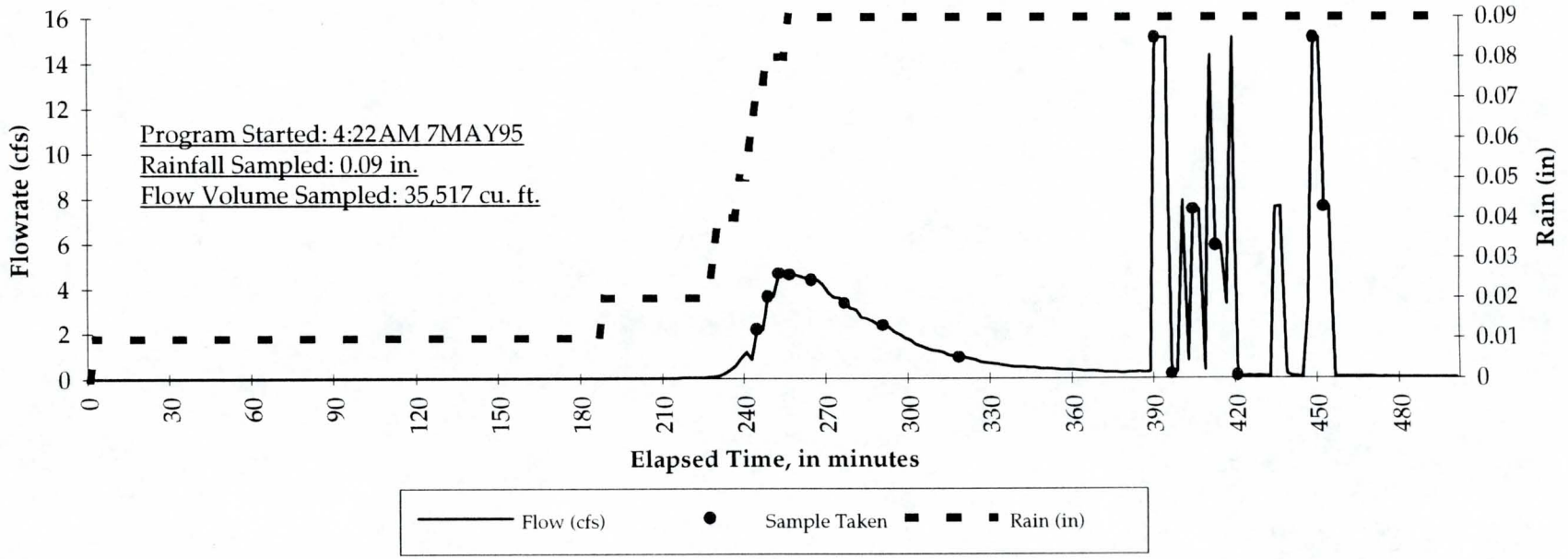
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 4:22 AM 7MAY95

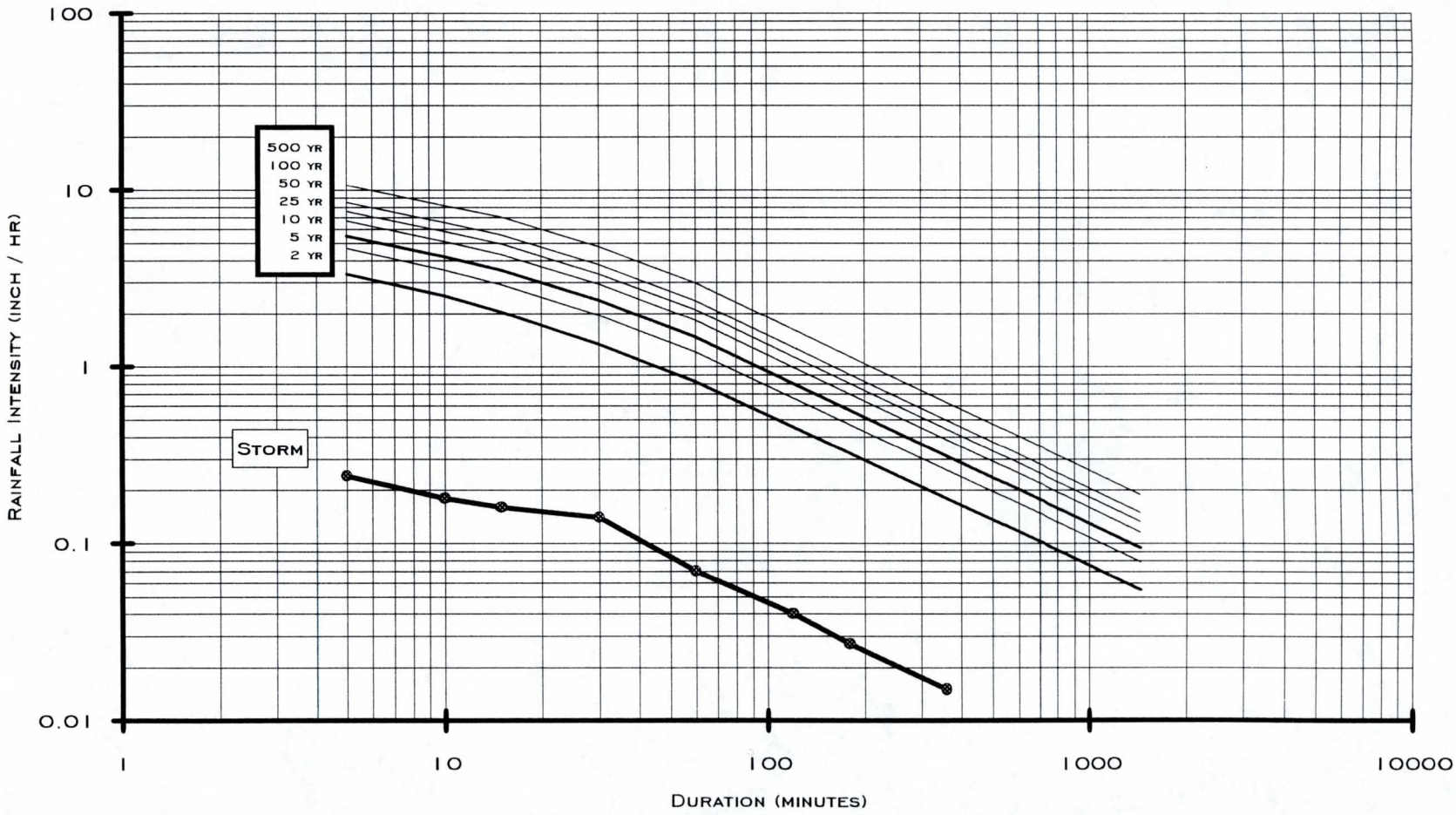
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Cumulative Total Volume	Rain
5-May-95	0	15.097	2.446	103320	2.446	103320	0
6-May-95	0	0.072	0.001	40	1.223	103370	0
7-May-95	0	15.097	0.419	36190	0.955	139560	0.09
8-May-95	0	0.078	0.002	50	0.717	139610	0

Mesa 5: Dobson south of Broadway

7 May 1995



MESA 5 - DOBSON ROAD SOUTH OF BROADWAY
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 5/7/95



Mesa 5: Dobson south of Broadway - 8/19/95

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0005
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=71 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: VERTICAL
PROGRAM STARTED: 7:00 PM 19AUG95
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 70 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD= 20 MIN; FIRST FLUSH BOTTLES= 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 2000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=030.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:30 AM 31OCT94

SAMPLE TAKEN

001-01	7:01 PM	19-Aug-95 011-04	8:00 PM	19-Aug-95 020-06	8:56 PM	19-Aug-95
002-01	7:04 PM	19-Aug-95 012-04	8:08 PM	19-Aug-95 021-07	9:02 PM	19-Aug-95
003-02	7:16 PM	19-Aug-95 013-05	8:16 PM	19-Aug-95 022-07	9:07 PM	19-Aug-95
004-02	7:20 PM	19-Aug-95 014-05	8:22 PM	19-Aug-95 023-07	9:12 PM	19-Aug-95
005-03	7:24 PM	19-Aug-95 015-05	8:28 PM	19-Aug-95 024-07	9:17 PM	19-Aug-95
006-03	7:30 PM	19-Aug-95 016-05	8:33 PM	19-Aug-95 025-08	9:23 PM	19-Aug-95
007-03	7:35 PM	19-Aug-95 017-06	8:39 PM	19-Aug-95 026-08	9:28 PM	19-Aug-95
008-03	7:40 PM	19-Aug-95 018-06	8:44 PM	19-Aug-95 027-08	9:34 PM	19-Aug-95
009-04	7:47 PM	19-Aug-95 019-06	8:50 PM	19-Aug-95 028-08	9:40 PM	19-Aug-95
010-04	7:53 PM	19-Aug-95				

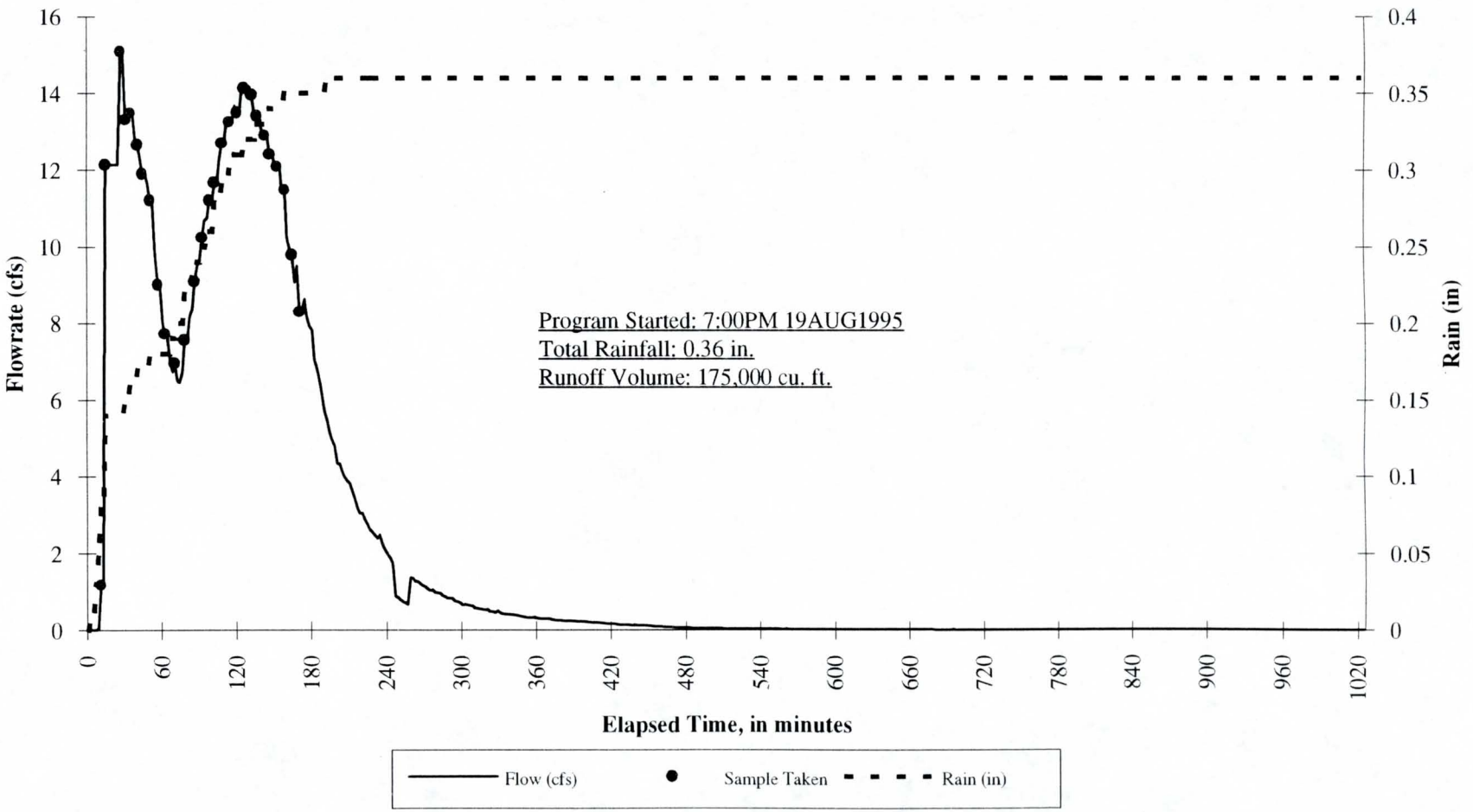
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 7:00 PM 19AUG95

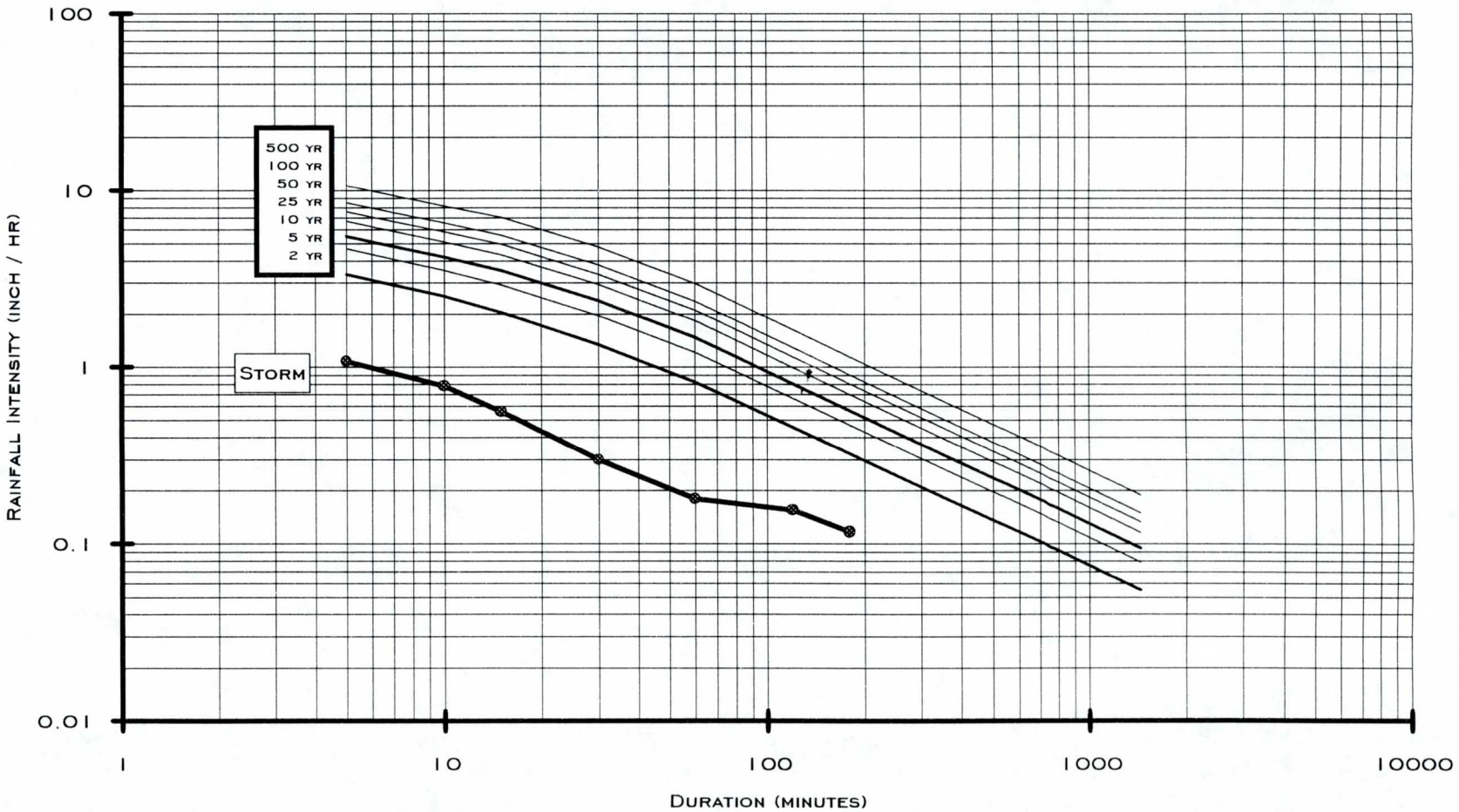
Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Daily Flow Rate	Cumulative Total Volume	Rain
17-Aug-95	0.002	0.01	0.005	250	0.005	250	0
18-Aug-95	0.001	15.097	0.217	18780	0.111	19040	0
19-Aug-95	0	15.097	1.547	133680	0.59	152720	0.36
20-Aug-95	0	16.191	1.67	144310	0.86	297040	0.64
21-Aug-95	0	9.363	0.715	61810	0.831	358840	0
22-Aug-95	0.008	0.022	0.012	370	0.695	359200	0

Mesa 5: Dobson south of Broadway

19 August 1995



MESA 5 - DOBSON ROAD SOUTH OF BROADWAY
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 8/19/95



Mesa 5: Dobson Road south of Broadway - 2/1/96

SIGMA STREAMLINE REV: USW-1.03
SITE I.D.#: 0005
ADVANCED PROGRAM FEATURES: YES
NUMBER OF SAMPLE BOTTLES= 8
SAMPLE BOTTLE VOLUME= 1900 ML
INTAKE TUBING LENGTH=71 FEET
DIAMETER= 3/8 IN.
PROGRAM LOCK: ENABLED
INTERNAL FLOMTR: ENABLED
SENSOR POSITION: HORIZONTAL
SENSOR TYPE 2.5 PSI
PROGRAM STARTED: 11:40 PM 31JAN96
PROGRAM COMPLETE
- PROGRAM REVIEW-
LEVEL CONTROL: STORMWATER
START ON RAIN AND LEVEL
TOTAL RAINFALL=0.05 IN.; TIME LIMIT= 90 MIN CHANNEL LEVEL= 0.2 IN.

FIRST FLUSH:
PERIOD = 20 MIN
FIRST FLUSH BOTTLES: 2
2 SAMP/BOTTLE
SAMPLE VOLUME= 950 ML
INTV= 1 MINUTES

MAIN PROGRAM:
FLOW MODE,SAMPLE INTV= 2000CU FT
DISCRETE MODE, 4 SAMP/BOTTLE
SAMPLE VOLUME= 450 ML
1 INTAKE RINSE
2 INTAKE FAULTS
SPECIAL OUTPUT: EVENT OUTPUT
SAMPLE TIME LIMIT: 1440 MIN
MANNING FORMULA: I.D.=030.00 IN., ROUGHNESS=.013, SLOPE=0.14/100FT
FLOW RECORDING INTV= 2 MIN
SENSOR LAST CALIBRATED:10:34 AM 25JAN96

SAMPLE TAKEN

001-01	11:41 PM	31-Jan-96 006-03	11:14 AM	1-Feb-96 010-04	11:44 AM	1-Feb-96
002-01	11:46 PM	31-Jan-96 007-03	11:20 AM	1-Feb-96 011-04	11:51 AM	1-Feb-96
003-02	11:50 PM	31-Jan-96 008-03	11:25 AM	1-Feb-96 012-04	12:00 PM	1-Feb-96
004-02	11:54 PM	31-Jan-96 009-04	11:37 AM	1-Feb-96 013-05	12:15 PM	1-Feb-96
005-03	11:09 AM	1-Feb-96				

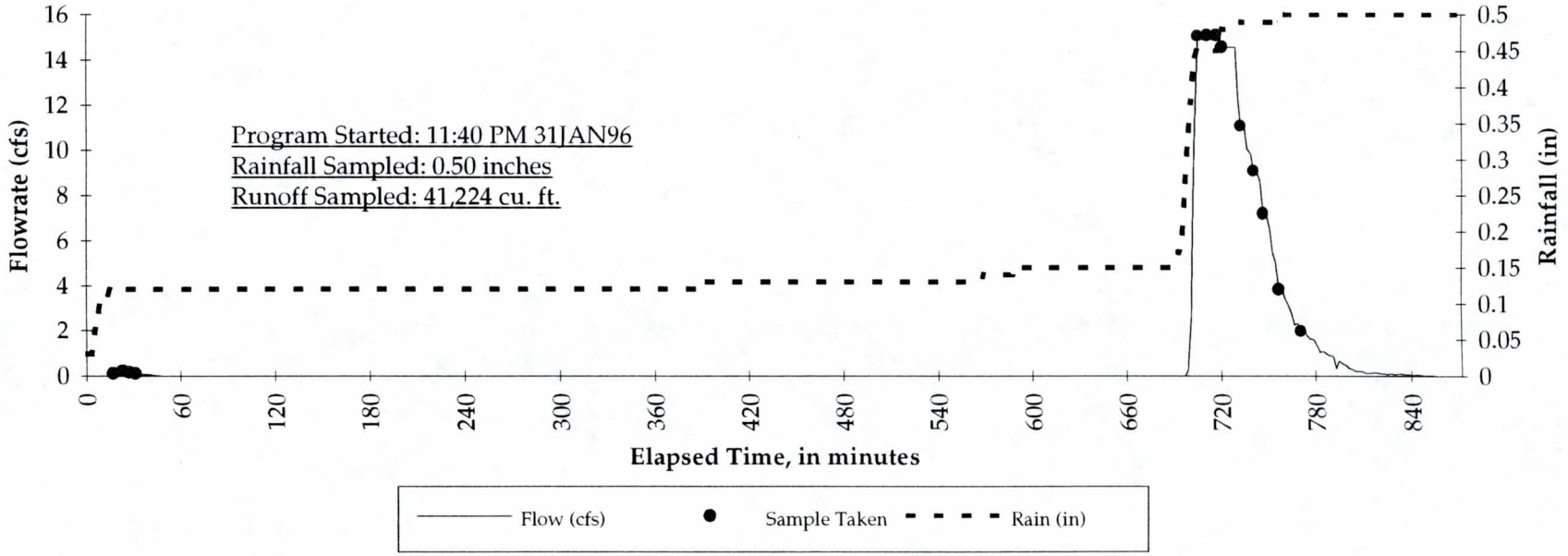
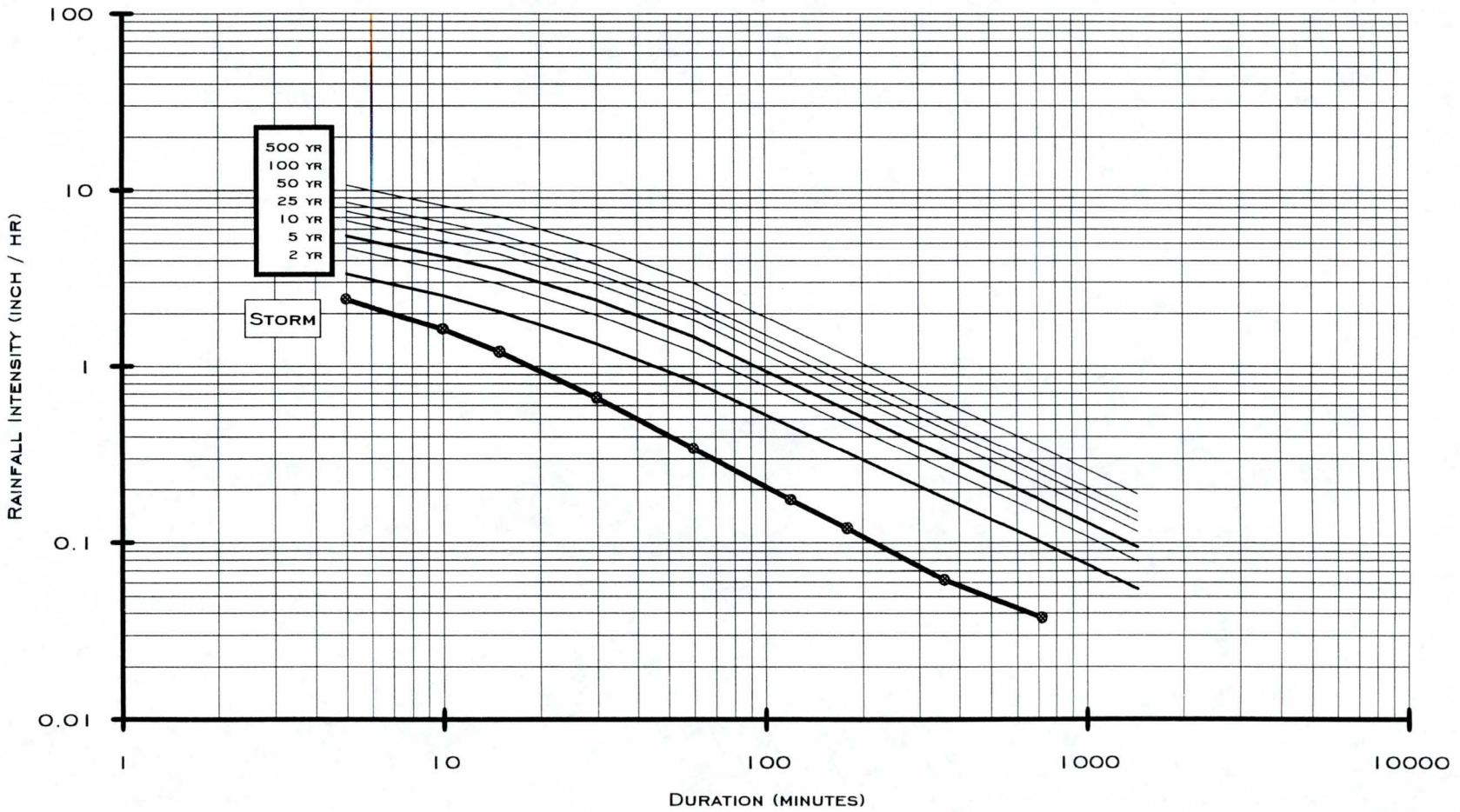
FLOW RATE UNITS: CFS VOLUME UNITS: CU FT

PROGRAM STARTED: 11:40 PM 31JAN96

Day	Min Daily Flow Rate	Max Daily Flow Rate	Avg Daily Flow Rate	Total Daily Volume	Cum Avg Flow Rate	Cumulative Total Volume	Rain
31-Jan-96	0	0.245	0.003	150	0.003	150	0.12
1-Feb-96	0	15.097	0.5	43210	0.252	43360	0.38
2-Feb-96	0	0	0	0	0.168	43360	0

Mesa 5: Dobson Road

1 February 1996



MESA 5 - DOBSON ROAD SOUTH OF BROADWAY
RAINFALL INTENSITY - DURATION - FREQUENCY RELATION
STORM OF 2/1/96