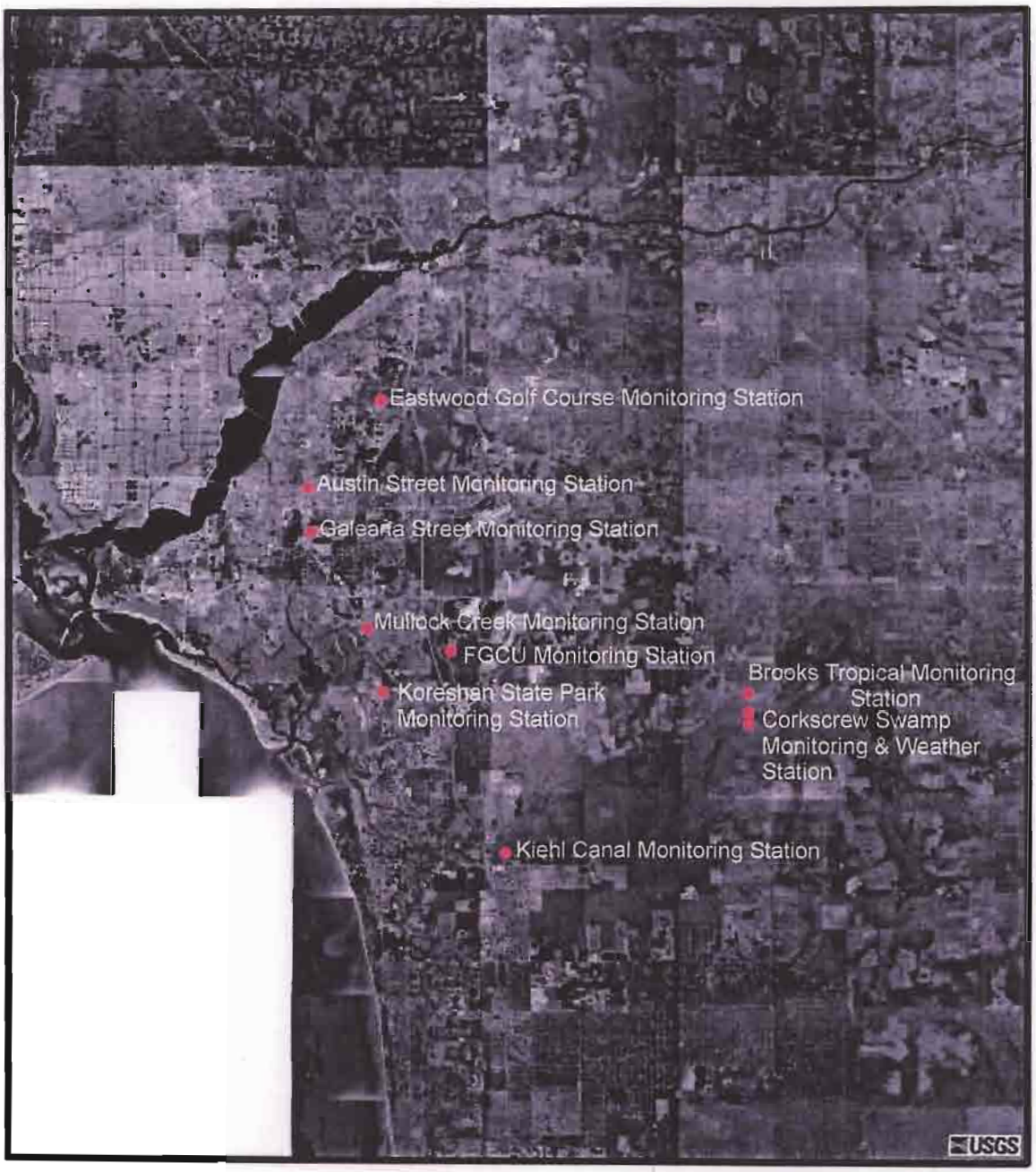
FIGURES



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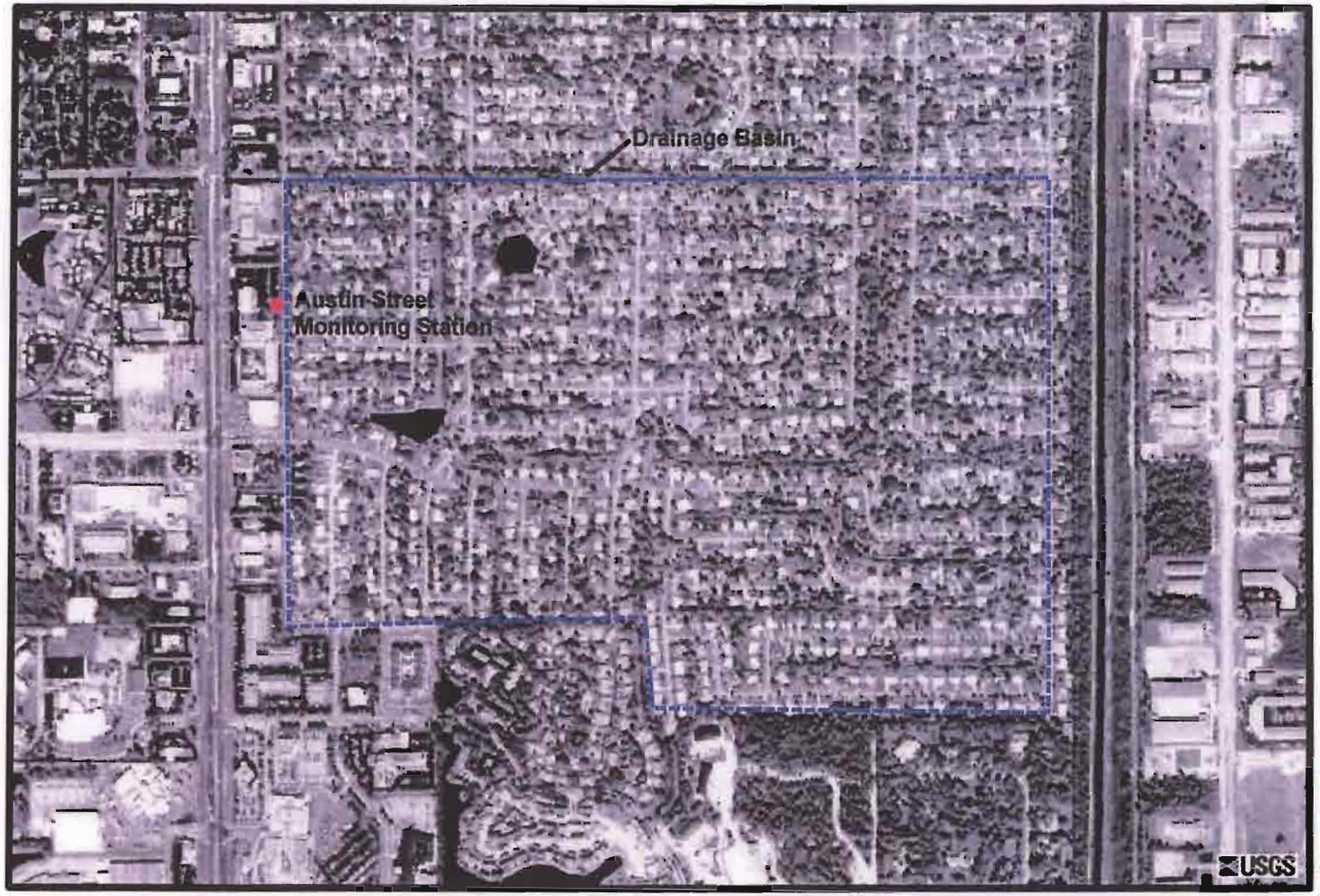
ESTERO BAY MONITORING STATIONS
ESTERO BAY PHASE II
LEE COUNTY, FLORIDA

CHKD BY:	DRAWN BY: JLA	DATE: 11/30/04	SCALE: 1" = 350,000'	REVISION:	PROJECT NO.: 552-1G002	FIGURE NO.: 1



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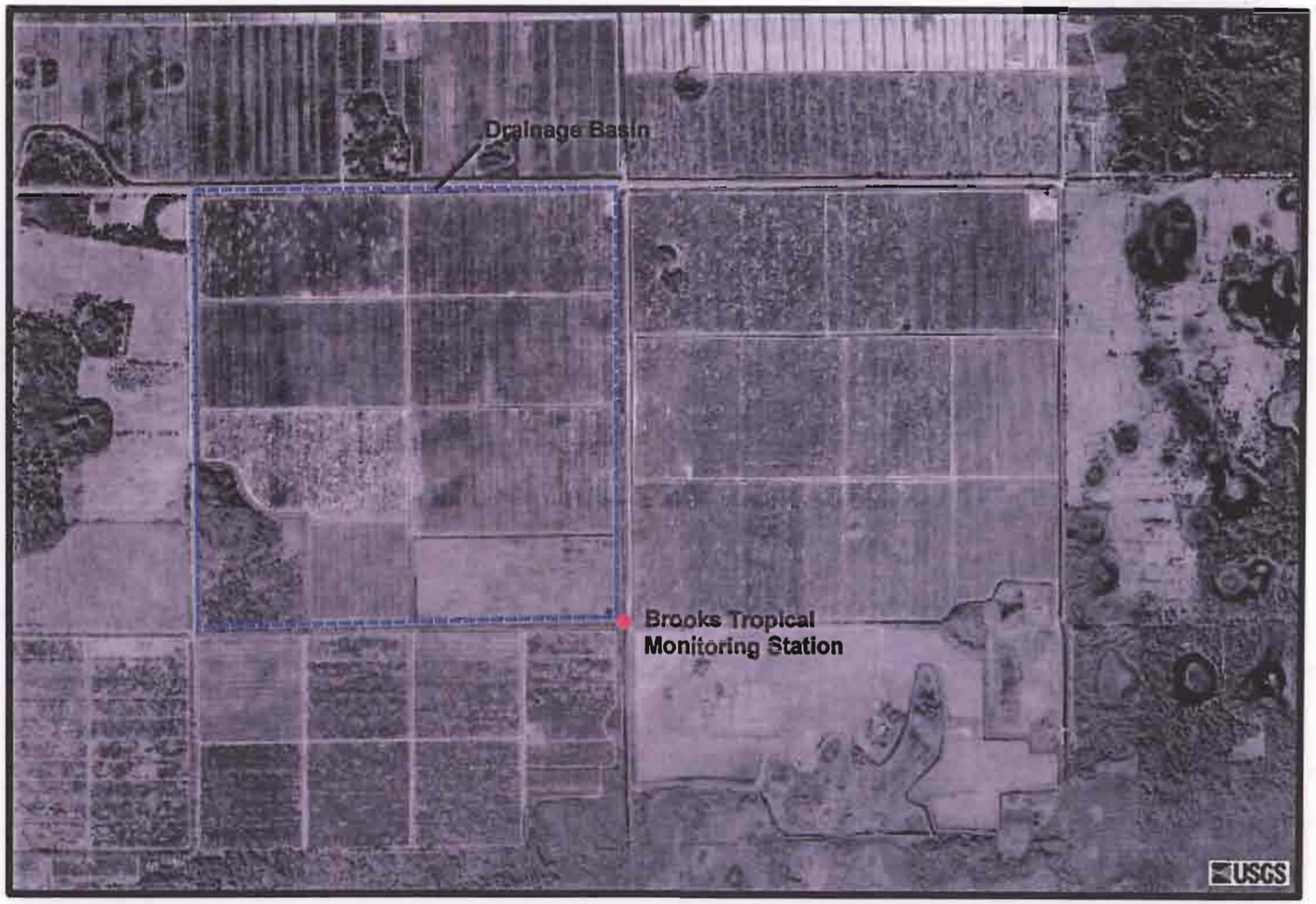
AUSTIN STREET MONITORING STATION

ESTERO BAY PHASE II

FT. MYERS, FLORIDA

CHKD BY:	DRAWN BY: JLA	DATE: 11/30/04	REVISION:	SCALE: 1" = 1,000'	PROJECT NO.: 552-1G002	FIGURE NO.: 2



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Information To Build On
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BROOKS TROPICAL MONITORING STATION

ESTERO BAY PHASE II

FT. MYERS AND ESTERO, LEE COUNTY, FLORIDA

CHKD BY:	DRAWN BY: JLA	DATE: 11/30/04	REVISION:	SCALE: 1" = 2,000'	PROJECT NO.: 552-1G002	FIGURE NO.: 3

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CORKSCREW ROAD MONITORING STATION

ESTERO BAY PHASE II

ESTERO, LEE COUNTY, FLORIDA

CHKD BY:	DRAWN BY: JLA	DATE: 11/30/04	REVISION:	SCALE: 1" = 300'	PROJECT NO.: 552-1G002	FIGURE NO.: 4

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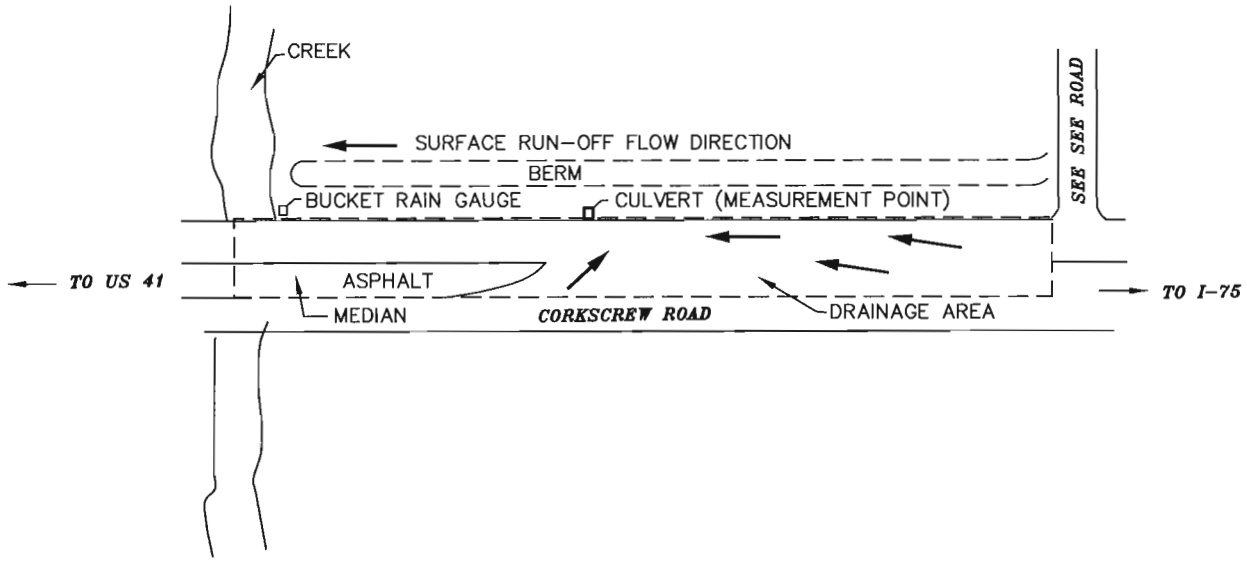

LEGEND

SURFACE WATER FLOW DIRECTION

0 150 300

APPROXIMATE SCALE IN FEET

DEC_04

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CORKSCREW ROAD DETAIL

MONITORING STATION
ESTERO BAY PHASE II
ESTERO, LEE COUNTY, FLORIDA

CHKD. BY:	DRAWN BY: VAS	DATE: 12/09/04	SCALE: NOTED	REVISION:	PROJECT NO.: 552-1G002	FIGURE NO.: 5

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Engineering • Consulting • Testing

CORKSCREW SWAMP MONITORING STATION

ESTERO BAY PHASE II

LEE COUNTY, FLORIDA

CHKD BY:	DRAWN BY: JLA	DATE: 11/30/04	REVISION:	SCALE: 1" = 6,000'	PROJECT NO.: 552-1G002	FIGURE NO.: 6

C:\GIS Projects\552-1G\Estero\Corkscrew\Swamp

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EASTWOOD GOLF COURSE MONITORING STATION

ESTERO BAY PHASE II

FT. MYERS, LEE COUNTY, FLORIDA

CHKD BY:	DRAWN BY: JLA	DATE: 11/30/04	SCALE: 1" = 1,000'	REVISION:	PROJECT NO.: 552-1G002	FIGURE NO.: 7

C:\GIS Projects\552-ENV\Estero\FGCU

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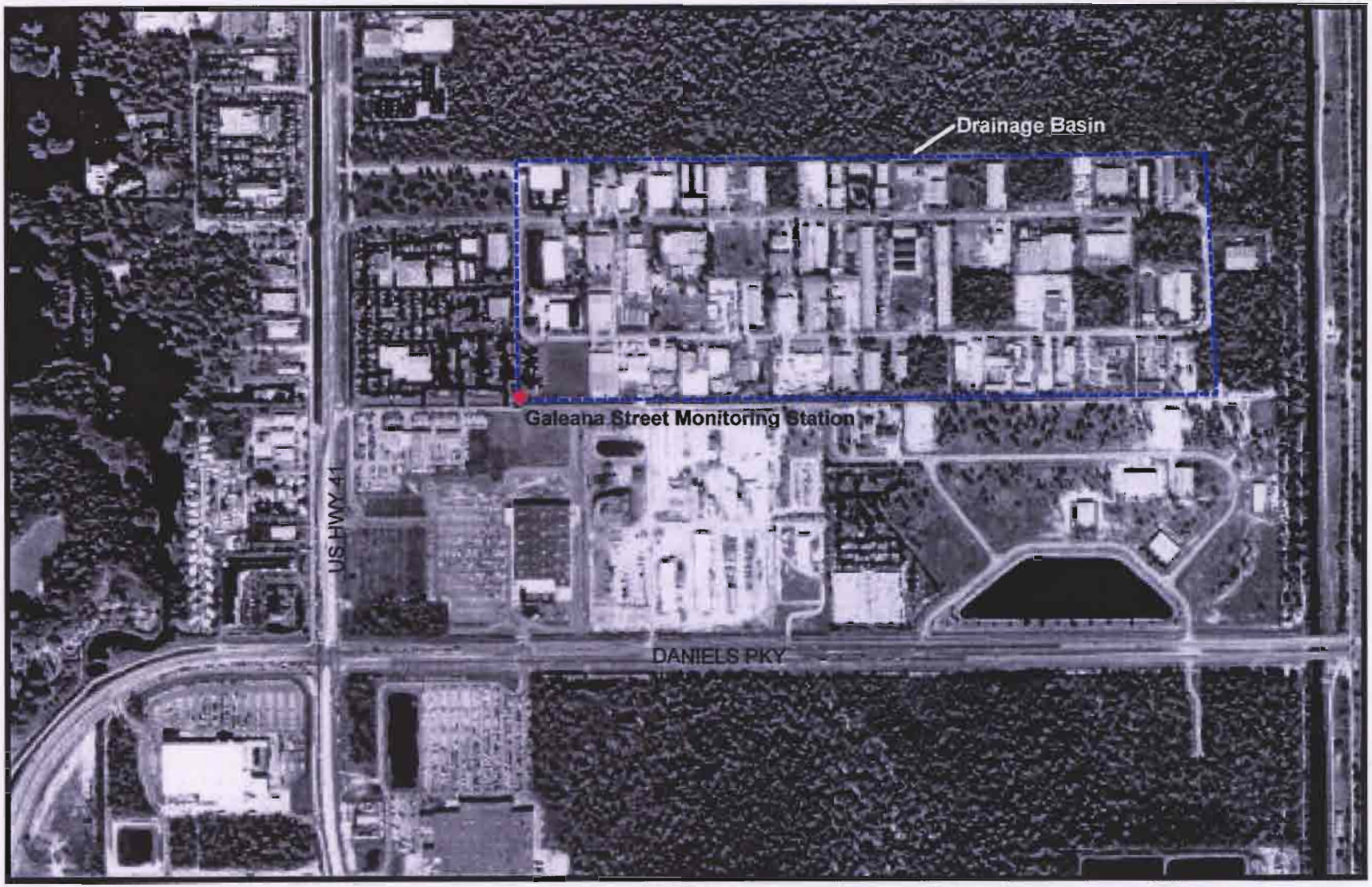
FLORIDA GULF COAST UNIVERSITY MONITORING STATION

ESTERO BAY PHASE II

FT. MYERS, LEE COUNTY, FLORIDA

CHKD BY:	DRAWN BY: JLA	DATE: 11/30/04	REVISION:	SCALE: 1" = 800'	PROJECT NO.: 552-1G002	FIGURE NO.: 8



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Engineering • Consulting • Testing

GALEANA STREET MONITORING STATION

ESTERO BAY PHASE II

FT. MYERS, LEE COUNTY, FLORIDA

CHKD BY:	DRAWN BY: JLA	DATE: 11/30/04	REVISION:	SCALE: 1" = 800'	PROJECT NO.: 552-1G002	FIGURE NO.: 9

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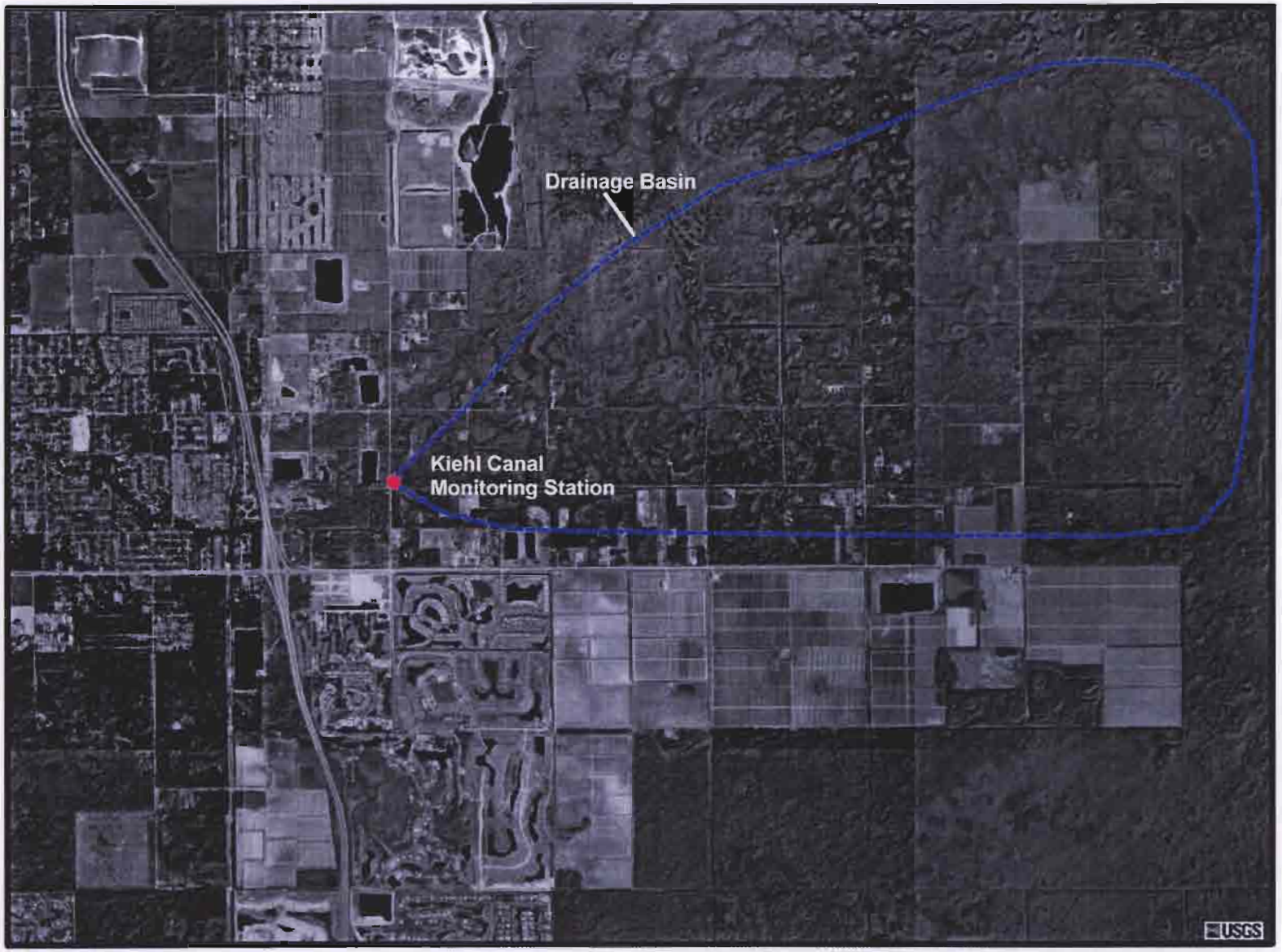

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Engineering • Consulting • Testing

KIEHL CANAL MONITORING STATION

ESTERO BAY PHASE II

BONITA SPRINGS, LEE COUNTY, FLORIDA

CHKD BY:	DRAWN BY: JLA	DATE: 11/30/04	REVISION:	SCALE: 1" = 5,000'	PROJECT NO.: 552-1G002	FIGURE NO.: 10

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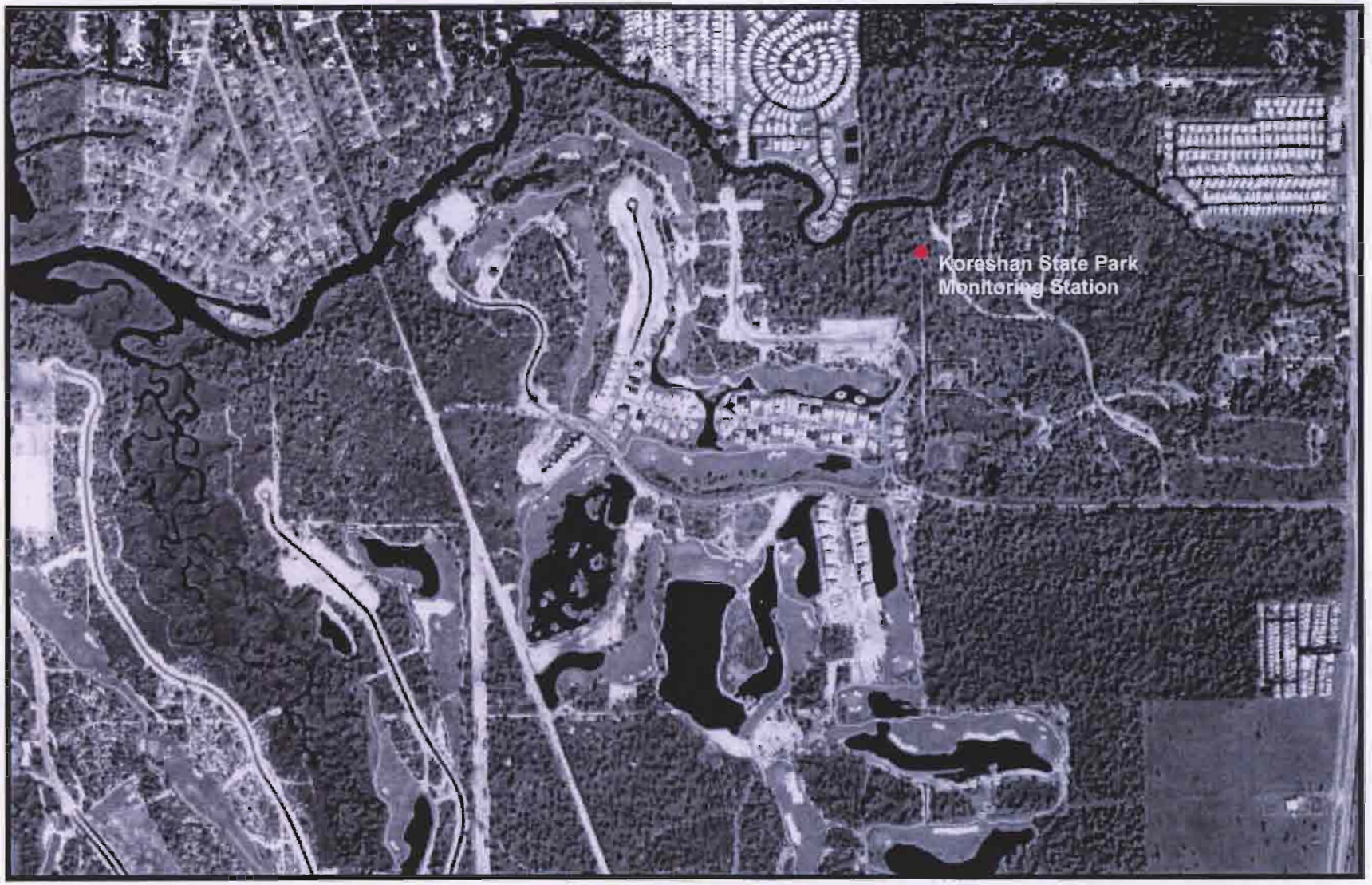

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Engineering • Consulting • Testing

KORESHAN STATE PARK MONITORING STATION

ESTERO BAY PHASE II

ESTERO, LEE COUNTY, FLORIDA

CHKD BY:	DRAWN BY: JLA	DATE: 11/30/04	REVISION:	SCALE: 1" = 1,000'	PROJECT NO.: 552-1G002	FIGURE NO.: 11

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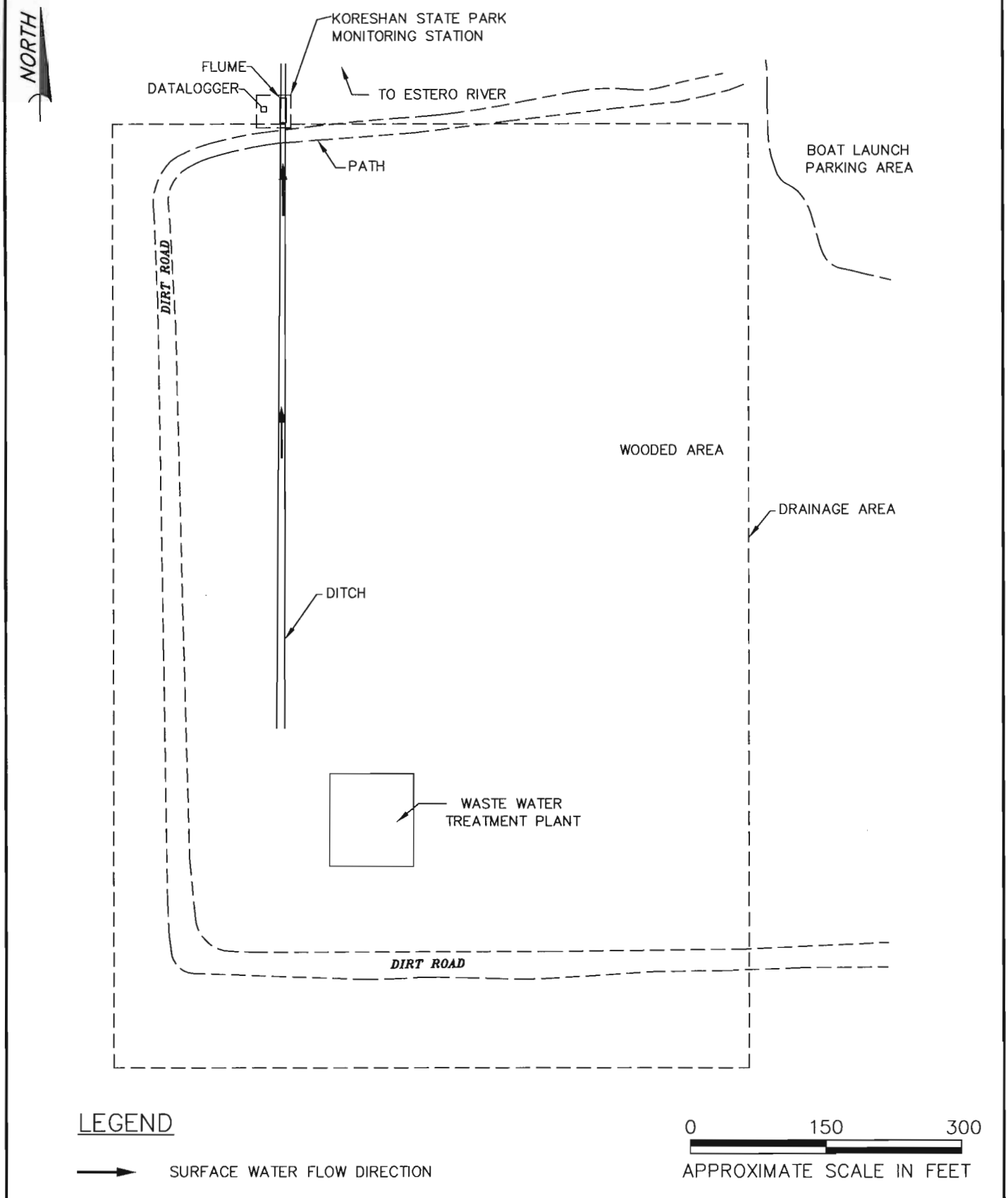


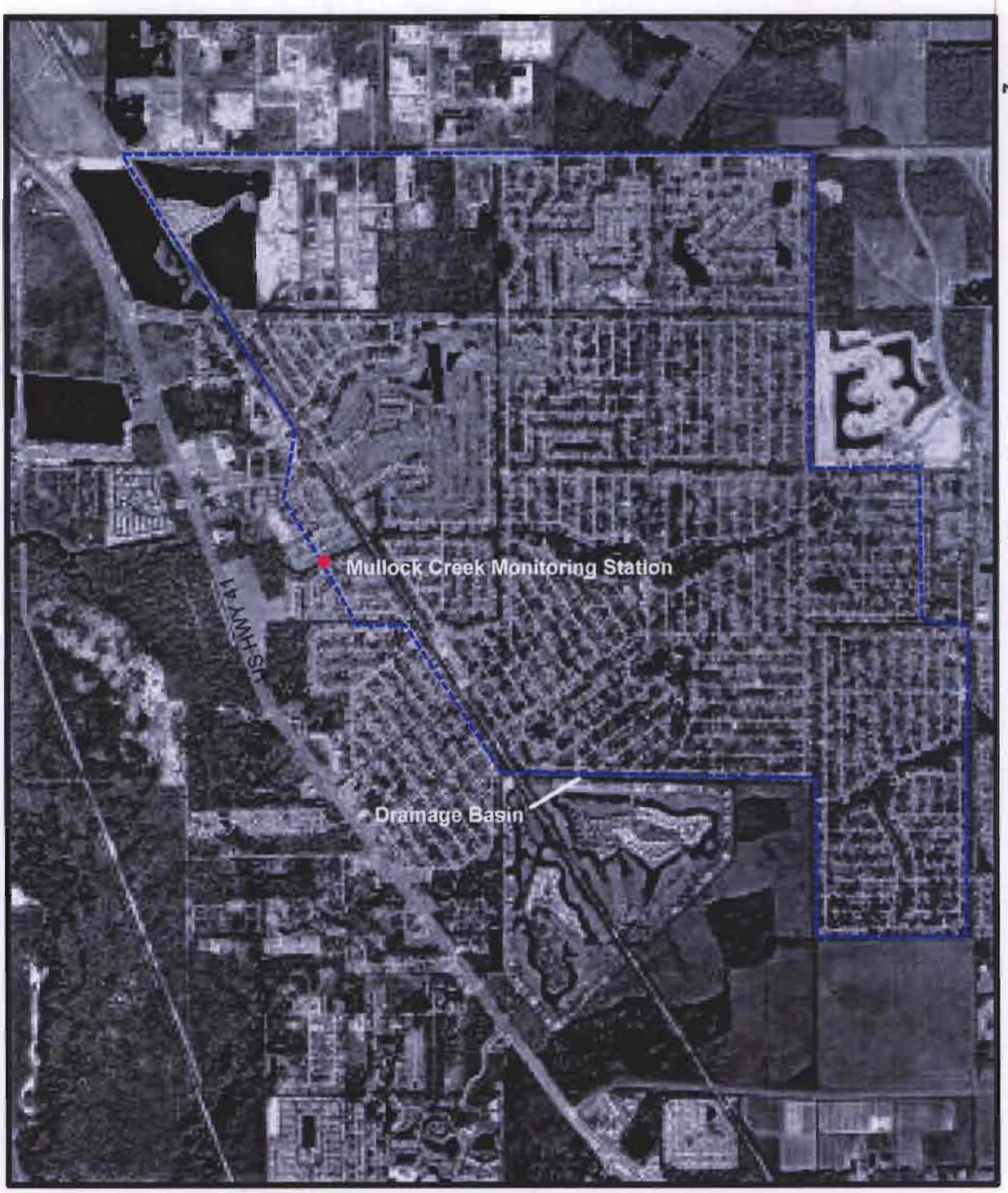
DEC_04

Information To Build On
Engineering • Consulting • Testing

KORESHAN STATE PARK DETAIL

MONITORING STATION
ESTERO BAY PHASE II
ESTERO, LEE COUNTY, FLORIDA

CHKD. BY:	DRAWN BY: VAS	DATE: 12/09/04	SCALE: NOTED	REVISION:	PROJECT NO.: 552-1G002	FIGURE NO.: 12



psi Information To Build On
Engineering • Consulting • Testing

MULLOCK CREEK MONITORING STATION
ESTERO BAY PHASE II
FT. MYERS, LEE COUNTY, FLORIDA

CHKD BY:	DRAWN BY: JLA	DATE: 00/00/04	SCALE: 1" = 2,500'	REVISION:	PROJECT NO.: 552-1G002	FIGURE NO.: 13

C:\GIS Projects\552-ENV\Estero\Mullock

TABLES

Table 1: **Elevation Survey Summary**
Project: **Estero Bay Phase II**
PSI Project No: **552-1G002**

Station:
Austin Street

Datum	Elev. (ft.)[1]	Elev. (ft.)[2]
piezometer	5.8	8.86
top of north culvert*	3.55	6.61

* measurement point for stage
Notes:
1. Elevations referenced to ditch bottom - assigned an elevation of 0.0 ft.
Surveyed on 3/29/04.

2. Elevations referenced to NAVD 88- See Attached F.D.O.T Recovery Sheet BM #186
Surveyed on 11/3/05

Station:
Brooks Tropical

Datum	Elev. (ft.)[1]	Elev. (ft.)[2]
piezometer	12.02	28.01
base of staff gauge	2.93	13.06
weir	4.2	17.26

Notes:
1. Elevations referenced to canal bottom - assigned an elevation of 0.0 ft.
Surveyed on 2/5/05.

2. Elevations referenced to NAVD 88- See Attached USC & GS Recovery Sheet BM # 2-24 46 27 9076
Suveyed on 1/6/06

Station:
Corkscrew Road

Datum	Elev. (ft.)[1]	Elev. (ft.)[2]
Culvert	0	7.37

Notes:
1. Elevations referenced to culvert - assigned an elevation of 0.0 ft.
Surveyed on 2/21/03.

2. Elevations referenced to NAVD 88- See Attached USC & GS Recovery Sheet BM # I75 Y11
Surveyed on 11/9/05

Station:
Corkscrew Swamp

Datum	Elev. (ft.)[1]	Elev. (ft.)[2]
piezometer	5.17	19.85
base of staff gauge	0.03	14.71
invert of north culvert	0.57	15.25

Notes:
1. Elevations referenced to south culvert invert - assigned an elevation of 0.0 ft.
Surveyed on 2/21/03.

2. Elevations referenced to NAVD 88- See Attached USC & GS Recovery Sheet BM # 2-24 46 27 9076
Suveyed on 6/14/05

Station:
Eastwood Golf Course

Datum	Elev. (ft.)[1]	Elev. (ft.)[2]
piezometer	7.2	18.92
base of staff gauge	0	11.72
weir	3.85	15.57
weir (inner notch)	3.70	15.42

Notes:
1. Elevations referenced to canal bottom - assigned an elevation of 0.0 ft.
Surveyed on 1/6/04.

Table 1: **Elevation Survey Summary**
Project: **Estero Bay Phase II**
PSI Project No: **552-1G002**

Station:	Datum	Elev. (ft.)[1]	Elev. (ft.)[2]
FGCU	piezometer	3.82	19.16

Notes:
1. Elevations referenced to culvert - assigned an elevation of 0.0 ft.
Surveyed on 6/18/04.

2. Elevations referenced to NAVD 88- Elevation at the top of weir below grate. Across the street from the FGCU Station. (18ft NGVD)
Surveyed on 10/14/05

Station:	Datum	Elev. (ft.)[1]	Elev. (ft.)[2]
Galeana Street	piezometer	4.79	7.83
	base of staff gauge	0.56	3.6
	shallow ditch shelf	0.7	3.74

Notes:
1. Elevations referenced to interior deep portion of the ditch bottom - assigned an elevation of 0.0 ft.
Surveyed on 1/16/04.

2. Elevations referenced to NAVD 88- See Attached USC & GS Recovery Sheet BM # Q247
Surveyed on 10/20/05

Station:	Datum	Elev. (ft.)[1]	Elev. (ft.)[2]
Galeana Street	piezometer	4.79	7.83
	base of staff gauge	0.48	3.52
	shallow ditch shelf	0.7	3.74

Notes:
1. Elevations referenced to interior deep portion of the ditch bottom - assigned an elevation of 0.0 ft.
Resurveyed on 9/24/04.

2. Elevations referenced to NAVD 88- See Attached USC & GS Recovery Sheet BM # Q247
Surveyed on 10/20/05

Station:	Datum	Elev. (ft.)[1]	Elev. (ft.)[2]
Kiehl Canal	piezometer	11.44	14.11
	base of staff gauge	-3.95	-1.28
	weir	6.00	8.67
	canal shallow shelf	2.00	4.67

Notes:
1. Elevations referenced to interior deep portion of the canal bottom - assigned an elevation of 0.0 ft.
Surveyed on 1/19/05.
Staff gauge is set in a scoured depression that is deeper than the canal bottom.

2. Elevations referenced to NAVD 88- See Attached National Geodetic Survey Recovery Sheet BM # AD8663
Surveyed on 10/18/05

Station:	Datum	Elev. (ft.)[1]	Elev. (ft.)[2]
Koreshan State Park	piezometer	1.48	8.69

Notes:
1. Elevations referenced to flume floor - assigned an elevation of 0.0 ft.
Surveyed on 5/22/03.

Table 1: **Elevation Survey Summary**
Project: **Estero Bay Phase II**
PSI Project No: **552-1G002**

	Datum	Elev. (ft.)[1]	Elev. (ft.)[2]
Station:	Top piezometer	4.93	10.17
Mullock Creek	Bottom piezometer	3.53	8.77
	base of staff gauge	0.82	6.06
	shallow creek shelf	0.50	5.74

Notes:
1. Elevations referenced to interior deep portion of the creek bottom - assigned an elevation of 0.0 ft. Surveyed on 11/22/04.

2. Elevations referenced to NAVD 88- See Attached National Geodetic Survey Recovery Sheet BM # AD1348 Surveyed on 10/20/05

Table 2: Laboratory Analytical Summary
Project: Estero Bay Phase II
PSI Project No: 552-1G002

	Nitrate/Nitrite (ug/L)	Total Kjeldahl Nitrogen (ug/L)	Ammonia Nitrogen (ug/L)	Ortho Phosphorus (ug/L)	Total Phosphorus (ug/L)	Total Suspended Solids (ug/L)	Copper (ug/L)
	EPA 353.3	EPA 351.2	EPA 350.1	EPA 365.3	EPA 365.3	EPA 160.2	EPA 6010/200.7
Austin St.							
12/16/2003							
Austin St.	400	860	80	156	187	63000	11.0
4/28/2004							
Austin St.	290	70 U	8 U	20 I	90	7000	5
6/8/2004							
Austin St.-1	290	100 U	90	100	87	12000	2
Austin St.-2	280	600	100	90	66	24000	5
Austin St.-3	270	100 U	50	110	165	24000	8
Austin St.-4	310	800	70	120	145	15000	10
2/3/2005							
Austin St.	4U	680	9U	2U	240	22000	1 U
8/26/2005							
Austin St. Dry Screen	170J*24	530	68	28J*25IQ	41J*26V*1	4800J*27I	0.99 I
10/27/2005							
Austin St.	3.2J*28	630J*29	220	5.2	62J*30	6900	2.1U
2/27/2006							
Austin St. Dry Screen	60J*31	550J*32	44J*33I	34J*34 V*2	120J*35	38000J*36	2.2J*37 U
6/12/2006							
Austin St.	1100J*45	550J*46	73J*47	42J*48	72	7600	5.9J*43,44
6/13/2006							
Austin St.	94	1100	170	87	87	5800	3.1 I
Brooks Tropical							
2/25/2004							
Dry Screen	230J*7,13	1100	57J*6,13	10 IJ*4	61	5000J*3	4.2J*5
First Flush	200J*7,13	1300	50J*6,13	10 IJ*4	41	7000J*3	4.1J*5
1 Hour	190J*7,13	1200	40 IJ*6,13	20J*4	14	6000J*3	2.8J*5
2 Hours	210J*7,13	1100	54J*6,13	20J*4	51	17000J*3	4.4*5
3 Hours	330J*7,13	1000	50J*6,13	20 IJ*4	58	10000J*3	2.6J*5
6/7/2004							
Brooks Tropical-1	40	500 U	60	40 I	99	7000	5.5
Brooks Tropical-2	50	500 U	60	30 I	33	1000	3.3
1/6/2005							
Brooks Tropical	100	940	105J*15	2 U	25	2000	1.2
8/26/2005							
Brooks Tropical Dry Screen	88J*24	740	48I	11J*25	24J*26 V*1	2500J*27 I	1.1 I
Equipment Blank	7.1	95 U	14 U	5.6	1.9I V*1	4500 I	0.47 U
9/20/2005							
Brooks Tropical	630	740	14U	57 Q	16	770 U	0.47 U
10/26/2005							
Brooks Tropical	1300J*28	1200J*29	280	200	190J*30	5900	11
2/27/2006							
Brooks Tropical Dry Screen	92J*31	730J*32	14J*33 U	15J*34 V*2	43J*35	3200J*36 I	2.2J*37 U
5/25/2006							
Brooks Tropical Dry Screen	64J*41	860J*40	60J*42	3.3J*44 I	5.8J*39 V*1	5000J*43	1.4J*38 U
6/12/2006							
Brooks Tropical Dry Screen	730J*45	1600J*46	57J*47	9.8J*44 I	120	27000	4.8 I J*43,44

Table 2: **Laboratory Analytical Summary**
Project: **Estero Bay Phase II**
PSI Project No: **552-1G002**

	Nitrate/Nitrite (ug/L)	Total Kjeldahl Nitrogen (ug/L)	Ammonia Nitrogen (ug/L)	Ortho Phosphorus (ug/L)	Total Phosphorus (ug/L)	Total Suspended Solids (ug/L)	Copper (ug/L)
	EPA 353.3	EPA 351.2	EPA 350.1	EPA 365.3	EPA 365.3	EPA 160.2	EPA 6010/200.7
Corkscrew Road							
2/25/2004							
First Flush	870J*7,13	2400	283J*6,13	280J*4	385	Not Analyzed	38.1J*5
30 Minutes	450J*7,13	2600	375J*6,13	220J*4	265	Not Analyzed	8.5J*5
1 Hour	650J*7,13	2200	270J*6,13	350J*4	285	17000J*3	12.9J*5
1.5 Hours	560J*7,13	2800	280J*6,13	380J*4	400	Not Analyzed	13.8J*5
7/19/2004							
Corkscrew Road-1	610	310	30 IY	2 U	70	26000	3.6
Corkscrew Road-2	630	520	29 IY	50	100	21000	10.5
Equipment Blank	10 I	500 U	9 UY	2 U	2 U	1000 U	1 U
4/7/2005							
Corkscrew Road-1	990	280	350	15 U	40	60000	32.9
Corkscrew Road-2	70	1060	115	25	100	10000	9.0
5/25/2006							
Corkscrew Road -1	800J*41	950J*40	260J*42	65J*44	110J*39 V*1	21000J*43	14J*38
Corkscrew Road- 2	1200J*41	1200J*40	220J*42	81J*44	67J*39 V*1	13000J*43	20J*38
Corkscrew Road -3	1000J*41	1500J*40	260J*42	85J*44	230J*39 V*1	55000J*43	29J*38
Corkscrew Road-4	720J*41	1100J*40	220J*42	73J*44	180J*39 V*1	36000J*43	24J*38
Equipment Blank	340	110	21	52	6.7	770	1.4 U
6/13/2006							
Corkscrew Road	100	330 I	170	11	44	19000	11
Corkscrew Swamp							
2/25/2004							
1 Hour	220J*7,13	1700	28 IJ*6,13	7 IJ*4	18	7000J*3	1.6J*5
2 Hour	260J*7,13	1700	15 IJ*6,13	7 IJ*4	18	3000J*3	5.2J*5
Equipment Blank	10 I	100 U	20 I	3	5 U	20000	2.2
4/27/2004							
Dry Screen	300	1900	927	50	170	6000	1.8 J*14
Equipment Blank	3 U	70 U	8 U	2 U	5 U	1000 U	1.8
Field Blank	3 U	70 U	8 U	2 U	5 U	1000 U	2.8
6/7/2004							
Corkscrew Swamp-1	80	1200	240	20 I	125	1000 U	2.8
Corkscrew Swamp-2	80	980	300	10 I	120	1000	1.9
1/6/2005							
Corkscrew Swamp	80	1000	48J*15	2 U	19	2000	12.6
Equipment Blank	4 U	70 U	18	2 U	5 U	1000 U	1 U
8/26/2005							
Corkscrew Swamp Dry Screen	8.3J*24	860	14 U	1.5 U	16J*26 V*1	4800J*27I	0.47 U
9/21/2005							
Corkscrew Swamp	5100 I	970	23 I	1.5 U	7.7 U	770 U	0.47 U
10/26/2005							
Corkscrew Swamp	99J*28	560J*29	14 U	1.7 I	11J*30	2400 I	2.1 U
2/27/2006							
Corkscrew Swamp Dry Screen	21J*31	1100J*32	14J*33 U	1.5J*34 U V*2	23J*35	1500J*36 I	2.2J*37 U
5/25/2006							
Corkscrew Swamp Dry Screen	130J*41	2400J*40	1200J*42	84J*44	140J*39 V*1	14000J*43	1.4J*38 U
6/12/2006							
Corkscrew Swamp Dry Screen	990J*45	1500J*46	360J*47	1.5 I J*48	92	17000	2.0 I J*43,44

Table 2: **Laboratory Analytical Summary**
Project: **Estero Bay Phase II**
PSI Project No: **552-1G002**

	Nitrate/Nitrite (ug/L)	Total Kjeldahl Nitrogen (ug/L)	Ammonia Nitrogen (ug/L)	Ortho Phosphorus (ug/L)	Total Phosphorus (ug/L)	Total Suspended Solids (ug/L)	Copper (ug/L)
	EPA 353.3	EPA 351.2	EPA 350.1	EPA 365.3	EPA 365.3	EPA 160.2	EPA 6010/200.7
Eastwood Golf Course							
8/28/03							
First Flush	240*	830	40 U	2 U	114	9000	1 U
Composite	270*	850	40 U	2 U	61	7000	1 U
30 Minutes (#1)	210*	780	40 U	2 U	85	7000	1 U
1 Hour (#2)	230*	790	40 U	2 U	99	3000	1 U
1.5 Hours (#3)	320*	870	40 U	2 U	110	1000	1 U
	* Nitrate and nitrite were analyzed separately. Nitrite was less than 2 ug/L in the sample.						
2/25/2004							
Dry Screen	390J*7,13	1100	63J*6,13	2 U	5 U	4000J*3	9.4J*5
First Flush (Duplicate)	200J*7	1400	104J*6,13	2 U	32	6000J*3	8.5J*5
First Flush	410J*7,13	1500	33 IJ*6,13	2 U	24	9000J*3	8.2J*5
30 Minutes	280J*7,13	1300	60J*6,13	2 U	19	5000J*3	11.5J*5
1 Hour	270J*7,13	1200	59J*6,13	2 U	36	3000J*3	10J*5
1.5 Hours	210J*7,13	1400	55J*6,13	2 U	30	3000J*3	9J*5
2 Hours	30J*7,13	1300	68J*6,13	2 U	35	6000J*3	10.9J*5
7/19/2004							
Eastwood-1	16 I	680	86 Y	2 U	30	2000	4.4
Eastwood-2	290 Y	670	95 Y	2 U	9 I	2000	3.0
Eastwood-3	100	690	92 Y	2 U	12 I	3000	2.2
3/15/2005							
Eastwood	390J*16	2010	19J*17	15 U	90	8000J*18	1.1J*19,20
Eastwood (Duplicate)	310J*16	1900	14J*17	15 U	70	9000J*18	5.7J*19,20
Equipment Blank	310	70 U	17	15 U	2 U	2000	2
8/26/2005							
Eastwood Dry Screen	27J*24	790	60	300J*25!	21J*26 V*1	5200J*27	3.4 I
10/27/2005							
Eastwood	37J*28	810J*29	34 I	3.9 I	38J*30	7100	3.6 I
Eastwood (Duplicate)	36J*28	760J*29	62	3.3 I	38J*30	10000	3.6 I
Equipment Blank	33	150 I	14 U	1.5 U	2.6 I	770 U	2.1 U
2/27/2006							
Eastwood Dry Screen	110J*31	690J*32	14 U	1.5 U	20J*35	2500J*36 I	2.4J*37 I
Duplicate	31J*31	570J*32	14 U	5J*34 Q V*2	20J*35	3200J*36 I	3.1J*37 I
Equipment Blank	13	95 U	14 U	2 I V	1.4 I	1200 I	2.2 U
Field Blank	1.4 I	95 U	14 U	2 I V	1.5 I	770 U	2.2 U
8/30/2006							
Eastwood-1	20J*49	1400 V*3	160J*50	1.6 U	84	19000	6.4
Eastwood-2	21J*49	1000 V*3	240J*50	1.6 UQ	30	26000	1.4 U
Eastwood-3	27J*49	940 V*3	230J*50	1.6 U	27	4500 I	1.4 U
Eastwood-4	40J*49	910 V*3	270J*50	1.6 U	42	5500	1.4 U
8/31/2006							
Equipment Blank	15	40 U	84	1.6 U	1.2 U	2300 U	1.4 U

Table 2: **Laboratory Analytical Summary**
Project: **Estero Bay Phase II**
PSI Project No: **552-1G002**

	Nitrate/Nitrite (ug/L)	Total Kjeldahl Nitrogen (ug/L)	Ammonia Nitrogen (ug/L)	Ortho Phosphorus (ug/L)	Total Phosphorus (ug/L)	Total Suspended Solids (ug/L)	Copper (ug/L)
	EPA 353.3	EPA 351.2	EPA 350.1	EPA 365.3	EPA 365.3	EPA 160.2	EPA 6010/200.7
FGCU							
11/19/2003							
Dry Screen	200	840	134	16 I	48	4000	2.7
First Flush	280	880	135	13 I	46	5000	3.4
30 Minutes	300	910	151	11 I	50	5000	3.6
2/25/2004							
Dry Screen	10J*7,13	800	28 IJ*6,13	70J*4	40	1000*J3	6.9J*5
First Flush	270J*7,13	6000 !	331J*6,13 !	6J*4 I	255 !	310000*J3 !	14.8J*5
30 Minutes	130J*7,13	1600	110J*6,13	3J*4 I	31	10000*J3	5.7J*5
1 Hour	280J*7,13	800	52J*6,13	2 U	55	5000J*3	5.7J*5
1.5 Hours	490J*7,13	1500	63J*6,13	20J*4 I	36	24000J*3	5.1J*5
3/17/2005							
FGCU	445J*21	70 U	43J*22	15 U	2 U	1000 U	10.4
4/8/2005							
FGCU	7 U	1010	76	15 U	180	5000	3.5
FGCU (Duplicate)	7 U	1130	73	15 U	190	3000	2.2
8/26/2005							
FGCU	17J*24	530	34 I	1.5 U	12J*26 V*1	1000J*27 I	1.5 I
FGCU Duplicate	21J*24	540	14 U	1.5 U	18J*26 V*1	1200J*27 I	1.2 I
10/26/2005							
FGCU	22J*28	410J*29 I	14 U	1.6 I	15J*30	1.4 I	2.1 U
2/27/2006							
FGCU dry screen	590J*31	590J*32	55J*33	170J*34 V*2	200J*35	2000J*36 I	2.8J*37 I
Galeana Street							
12/17/2003							
Galeana St.	300	310	23 I	24	41	7000	5 U
4/28/2004							
Galeana St.	310	70 U	8 U	3	58	10000	3.6
6/9/2004							
Galeana St.-1	22 IJ*9	500 U	69	20J*10 I	76J*13	10000	5.2J*8
Galeana St.-2	210J*9	500 U	50	40J*10 I	72J*13	9000	4.1J*8
Galeana St.-3	180J*9	500 U	39	30J*10 I	45J*13	25000	7.1J*8
Galeana St.-3 (duplicate)	210J*9	500 U	40	20J*10 I	5 U	30000	6J*8
Field Blank	50	500 U	9 U	10 I	5 U	3000	2.7
Equipment Blank	50	500 U	9 U	10 I	5 U	1000 U	2.2
2/3/2005							
Galeana St.	4 U	660	12J*15 I	2 U	140	12000	1 U

Table 2: **Laboratory Analytical Summary**
Project: **Estero Bay Phase II**
PSI Project No: **552-1G002**

	Nitrate/Nitrite (ug/L)	Total Kjeldahl Nitrogen (ug/L)	Ammonia Nitrogen (ug/L)	Ortho Phosphorus (ug/L)	Total Phosphorus (ug/L)	Total Suspended Solids (ug/L)	Copper (ug/L)
	EPA 353.3	EPA 351.2	EPA 350.1	EPA 365.3	EPA 365.3	EPA 160.2	EPA 6010/200.7
4/7/2005							
Galeana #1	120	1290	20	15 U	70	1000	2.2
4/8/2005							
Galeana #2	30	500	19	15 U	40	2000	5.9
Galeana #3	7 U	1180	49	15 U	30	1000	1.6
Galeana #4	7 U	1060	70	15 U	2 U	2000	1 U
8/26/2005							
Galeana Dry Screen	98J*24	570	120	3.2J*25 I	22J*26 V*1	4500J*27 I	0.88 I
2/27/2006							
Galeana Dry Screen	20J*31	630J*32	14J*33 U	17J*34 V*2	54J*35	210000J*36	2.2J*37 U
6/13/2006							
Galeana-1	150	770	140	2.1 I	38	4000 I	2.1 I
Galeana-2	41	870	86	2.4 I	26	1200 I	2.9 I
Kiehl Canal							
2/25/2004							
Kiehl Canal	300J*7,13	2900	183J*6,13	2 U	51	1000J*3	1.9J*5
1/6/2005							
Kiehl Canal	4 U	730	27J*15	2 U	45	4000	1 U
8/26/2005							
Kiehl Canal Dry Screen	57J*24	800	38I	1.5 UQ	26J*26 V*1	4500J*27 I	0.85 I
9/21/2005							
Kiehl Canal	2000 I	970	55	1.5 U	5.6	3500 I	0.47 U
2/27/2006							
Kiehl Canal Dry Screen	91J*31	860J*32	15J*33 I	5J*34 V*2	24J*35	2800J*36 I	2.2J*37 U
Koreshan State Park							
11/6/2003							
Flume	40*	620	38	2 U	7	4000	1 U
	* Nitrate and nitrite were analyzed separately. Nitrite was less than 2 ug/L in the sample.						
7/19/2004							
Koreshan-1	60	500	10 IY	2 U	12 I	1000	1 U
Koreshan-2	70	420	44 Y	2 U	40	2000	1 U
Koreshan-3	4 I	390	53 Y	2 U	70	2000	1 U
Koreshan-4	60	370	66 Y	2 U	50	2000	1 U
3/17/2005							
Koreshan	7 U	5530J*23	80J*22	15 U	2 U	1000 U	1.6
4/7/2005							
Koreshan-1	80	1900	21	15 U	40	4000	5.7
4/8/2005							
Koreshan-2	7 U	560	28	15 U	30	8000	1 U
Koreshan-3	7 U	1510	25	15 U	20	5000	1 U
Koreshan-4	7 U	1570	19	15 U	30	1000	1 U
8/26/2005							
Koreshan	160J*24	800	72	1.5 U	7.1J*26 V*1	2200J27 I	0.48 I
10/27/2005							
Koreshan	50J*28	700J*29	70	1.6 I	8.3J*30	770 U	2.1 U
8/30/2006							
Koreshan-1	43J*49	880 V3	160 J*50	1.6 U	9.5	2300 U	1.4 U
Koreshan-2	75J*49	810 V3	130 J*50	11 Q	19	2300 U	1.4 U
Koreshan-3	32J*49	730 V3	110 J*50	7.4	49	2300 U	1.4 U
Koreshan-4	32J*49	770 V3	100 J*50	17	38	2300 U	1.4 U

Table 2: **Laboratory Analytical Summary**
Project: **Estero Bay Phase II**
PSI Project No: **552-1G002**

	Nitrate/Nitrite (ug/L)	Total Kjeldahl Nitrogen (ug/L)	Ammonia Nitrogen (ug/L)	Ortho Phosphorus (ug/L)	Total Phosphorus (ug/L)	Total Suspended Solids (ug/L)	Copper (ug/L)
	EPA 353.3	EPA 351.2	EPA 350.1	EPA 365.3	EPA 365.3	EPA 160.2	EPA 6010/200.7
Mullock Creek							
12/17/2003							
Mullock Creek	310J*1	660	243	18	39	30000J*2	5 U
Equipment Blank	200	100 U	10 U	4 U	4 U	1000	5 U
4/28/2004							
Dry Screen Creek	430	70 U	73	10 I	68	2000	2.1
7/28/2004							
Mullock Creek-1	130J*11	700	120	20 I	70J*12	7000	1 U
Mullock Creek-2	120J*11	800	120	30 I	80J*12	6000	1 U
Mullock Creek-3	140J*11	800	160	10 I	90J*12	4000	1
Mullock Creek-4	130J*11	900	160	20 I	110J*12	5000	1 U
Mullock Creek-5	150J*11	800	140	10 I	80J*12	4000	1
Equipment Blank	20 I	200 U	10 U	20 U	10 I	1000 U	1 U
3/17/2005							
Mullock Creek	163J*21	3150J*23	195J*22	15 U	40	4000	1 U
Equipment Blank	15	1830	15	15 U	2 U	1000 U	1 U
8/26/2005							
Mullock Creek	110J*24	780	230	24J*25	34J*26 V*1	7500J*27	1.4 I
10/27/2005							
Mullock Creek	26J*28	830J*29	270	45	61J*30	6900 I	2.1 U
2/27/2006							
Mullock Creek	130J*31	600J*32	140J*33	19J*34 V*2	41J*35	4200J*36	2.2J*37 U
5/30/2006							
Mullock Creek Dry Screen	150	640	160	11	13 V	1400	1.4 U
Duplicate	730	740	160	11	14 V	1100	1.4 U
6/12/2006							
Mullock Creek Dry Screen	360 J*45	690 J*46	140 J*47 V*3	10 J*48	15	1400	2.9 I J*43,44
Equipment Blank	370	160 I	28 V*3	3.2 I	1.2 U	770 U	1.7 I
Field Blank	190	100 I	110 V*3	1.5 U	1.2 U	770 U	9.1
6/13/2006							
Mullock Creek Dry Screen	79	760	280	17	33	770 U	2.1 U

J*1= Estimated Value. Nitrate/Nitrite was present in the associated equipment blank at 200 ug/L.
J*2= Estimated Value. TSS was present in the associated equipment blank at 1000 ug/L.
J*3= Estimated Value. TSS was present in the associated equipment blank at 20000 ug/L.
J*4= Estimated Value. Orthophosphorus was present in the associated equipment blank at 3 ug/L.
J*5= Estimated Value. Copper was present in the associated equipment blank at 2.2 ug/L.
J*6= Estimated Value. Ammonia Nitrogen was present in the associated equipment blank at 20 ug/L.
J*7= Estimated Value. Nitrate/Nitrite was present in the associated equipment blank at 10 ug/L.
J*8= Estimated Value. Copper was present in the associated equipment blank at 2.2 ug/L and the field blank at 2.7ug/L.
J*9= Estimated Value. Nitrate/Nitrite was present in the associated equipment blank and the field blank at 50 ug/L.
J*10= Estimated Value. Orthophosphorus was present in the associated equipment blank and the field blank at 10 ug/L.
J*11= Estimated Value. Nitrate/Nitrite was present in the associated equipment blank and the field blank at 20 ug/L.
J*12= Estimated Value. Total Phosphorus was present in the associated equipment blank and the field blank at 10 ug/L.
J*13= Estimated Value. Relatve percent difference between the field sample and duplicate was greater than 50%.
J*14= Estimated Value. Copper was present in the associated equipment blank at 1.8 ug/L and the field blank at 2.8ug/L.
J*15= Estimated Value. Ammonia Nitrogen was present in the associated equipment blank at 18 ug/L.
J*16= Estimated Value. Nitrate/Nitrite was present in the associated equipment blank at 310 ug/L.
J*17= Estimated Value. Ammonia Nitrogen was present in the associated equipment blank at 17 ug/L.
J*18= Estimated Value. TSS was present in the associated equipment blank at 2000 ug/L.
J*19= Estimated Value. Copper was present in the associated equipment blank at 2.0 ug/L.
J*20= Estimated Value. Relatve percent difference between the field sample and duplicate was greater than 50%.
J*21= Estimated Value. Nitrate/Nitrite was present in the associated equipment blank at 15 ug/L.
J*22= Estimated Value. Ammonia Nitrogen was present in the associated equipment blank at 15 ug/L.
J*23= Estimated Value. TKN was present in the associated equipment blank at 1830 ug/L.
J*24= Estimated Value. Nitrate/Nitrite was present in the associated equipment blank at 7.1 ug/L.
J*25= Estimated Value. Orthophosphorus was present in the associated equipment blank at 5.6 ug/L.
J*26= Estimated Value. Total Phosphorus was present in the associated equipment blank and the field blank at 1.9 ug/L (estimated value).
J*27= Estimated Value. TSS was present in the associated equipment blank at 4500 ug/L (estimated value).
J*28= Estimated Value. Nitrate/Nitrite was present in the associated equipment blank at 33 ug/L.
J*29= Estimated Value. TKN was present in the associated equipment blank at 150 ug/L (estimated value).
J*30= Estimated Value. Total Phosphorus was present in the associated equipment blank 2.6 ug/L (estimated value).
J*31= Estimated Value. Nitrate/Nitrite was present in the associated equipment blank at 13 ug/L.
J*32= Estimated Value. TKN was present in the associated equipment blank at 95 ug/L (estimated value).
J*33= Estimated Value. Ammonia Nitrogen was present in the associated equipment blank at 14 ug/L.
J*34= Estimated Value. Orthophosphorus was present in the associated equipment blank and the field blank at 2 ug/L.
J*35= Estimated Value. Total Phosphorus was present in the associated equipment blank 1 ug/L (estimated value).
J*36= Estimated Value. TSS was present in the associated equipment blank at 1200 ug/L (estimated value).
J*37= Estimated Value. Copper was present in the associated equipment blank at 2.2 ug/L.
J*38 Estimated Value. Copper was present in the associated method blank at 1.4 ug/L.
J*39 Estimated Value. Total Phosphorus was present in the assoicated equipment blank at 6.7 ug/L.
J*40 Estimated Value. TKN was present in the assoicated equipment blank at 110 ug/L.
J*41 Estimated Value. Nitrate/Nitrite was present in the assoicated equipment blank at 340 ug/L.
J*42 Estimated Value. Ammonia Nitrogen was present in the assoicated equipment blank at 21 ug/L.
J*43 Estimated Value. TSS was present in the assoicated equipment blank at 770 ug/L.
J*44 Estimated Value. Orthophosphorus was present in the assoicated equipment blank at 52 ug/L.
J*45 Estimated Value. Nitrate/Nitrite was present in the assoicated equipment blank at 370 ug/L.
J*46 Estimated Value. TKN was present in the assoicated equipment blank at 160 ug/L (estimated value).
J*47 Estimated Value. Ammonia Nitrogen was present in the assoicated equipment blank at 28 ug/L.
J*48 Estimated Value. Orthophosphate was present in the assoicated equipment blank and field blank at 3.2 ug/L.
J*49 Estimated Value. Nitrate/Nitrite was present in the assoicated equipment blank at 15 ug/L.
J*50 Estimated Value. Ammonia Nitrogen was present in the assoicated equipment blank at 84 ug/L.
I= Result between method detection limit and the practical quantitation limit.
Q = Holding times for preparation and analysis exceeded- results may be skewed slightly low.
U= Results below the laboratory method detection level.
V*1 = Total phosphorus was detected in the associated method blank at 2.3 ug/L (estimated value).
V*2 = Orthophosphorus was detected in the associated method blank at 3.0 ug/L (estimated value).
V*3 = Ammonia Nitrogen was detected in the associated method blank at 19ug/L.
Y= Improper Preservation. Samples were received by ppb subcontractor laboratory at 19.4 degrees C instead of 4 degrees C.
According to the contractor analytical laboratory (PC&B) the results are not biased.
! = Data deviates from historically established concentration ranges and was not utilized for EMC and loading calculations.

Table 3: **Field Parameter Summary**
Project: **Estero Bay Phase II**
PSI Project No: **552-1G002**

		pH	Temperature (°C)	Conductivity (us)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)
Austin St.						
12/16/2003		7.48	22.8	364	3.3	83
4/28/2004		7.74	29.8	685	2.9	7.4
6/8/2004		6.56	25.5	141	6.4	42
2/3/2005[1]		7.43	26.2	622	9.21	7.79
8/26/05-8/27/05[2]		7	25.3-27.3	600	0.84-7.0	1.0-6.0
8/27/2005[1]		7.12	26.4	641	6.17	2.15
10/27/2005[1]		6.71	No Data	629	1.61	3.43
2/27/2006[1]		7.24	26.8	654	7.43	4.71
6/12/2005[1]		7.63	27.7	486	5.1	11
6/13/2005[1]		7.17	26.2	747	4.0	16
Brooks Tropical						
2/25/2004	10:00	6.96	19	569	2.4	81
2/25/2004	10:28	6.96	18.3	624	3	43
2/25/2004	14:45	7.44	18.5	456	3.9	28
1/6/2005[1]		7.12	21.7	468	3.41	5.4
8/26/2005-8/31/05[2]		7.3-7.5	26.0-31.5	351-382	3.0-7.0	0.5-2
9/2/2005 - 9/4/2005[2]		7.15-7.62	30.26-26.49	312-386	2.88-7.3	1.44-7.15
9/21/2005[1]		7.24	26.5	394	2.69	2.96
10/26/2005[1]		6.61	20.7	270	4	4.28
2/27/2006[1]		7.1	21.3	487	5.69	9.13
5/25/2006[1]		6.65	27.6	503	4.2	7.35
6/12/2006[1]		6.29	27.3	493	1.78	8.76
Corkscrew Road						
2/25/2004[1]		8.34	20.4	No reading	No reading	71.2
7/19/2004[1]	13:40	8.15	28.3	486	7.9	37.2
7/19/2004[1]	14:05	7.8	26.5	506	7.8	34.3
4/7/2005[1]	22:00	8.53	20.3	420	32.5	104
4/7/2005[1]	22:30	8.75	No reading	46	No reading	34
5/25/2006[1]	14:30	6.87	27.3	100.8	9.07	58.2
5/25/2006[1]	14:32	7.07	27.2	102.5	9.16	57.5
5/25/2006[1]	14:35	7.18	27.2	105	9.15	59
5/25/2006[1]	14:38	7.33	27.2	109	8.69	65.9
5/25/2006[1]	14:45	7.51	27.2	121	8.23	72.8
5/25/2006[1]	15:40	7.09	28.0	99.5	8.35	88.3
5/25/2006[1]	15:45	7.14	27.8	100.6	8.34	85.5
6/13/2006[1]		8.39	26.8	48.6	7.5	42

Table 3: **Field Parameter Summary**
Project: **Estero Bay Phase II**
PSI Project No: **552-1G002**

		pH	Temperature (°C)	Conductivity (us)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)
Corkscrew Swamp						
2/25/2004[1]	11:35	6.95	18.5	332	2.4	5
2/25/2004[1]	12:35	7.15	18.5	313	3.2	6
4/27/2004[1]		7.65	27.6	488	1.6	2.38
6/7/2004[1]		7.2	28.5	435	3.2	7
1/6/2005[1]		6.94	20.5	466	2.26	No reading
2/3/2005-2/17/2005[2]		6.9-7.2	13.4-21.7	460-506	1.5-7.0	3.1-8.6
8/29/2005[1]		6.77	27.1	314	2.31	0.48
9/21/2005[1]		7.22	26.8	258	2.78	1.45
10/26/2005[1]		6.65	21.0	154	3.25	0.68
2/27/2006[1]		7.14	18.3	420	2.64	0.69
5/25/2006[1]		6.48	27.5	524	3.59	7.44
6/12/2006[1]		6.77	27.5	451	1.62	7.76
Eastwood Golf Course						
2/25/2004[1]		6.27	21.3	767	10	4.1
4/17-5/27/2004[2]		7.73-8.45	22.6-30.0	694-757	1.13-10.1	1.6-54.0
7/8-17/2004[2]		7.38-7.78	28.1-30.8	841-931	0-2.0	1.8-11
7/19/2004[1]		7.52	28.6	765	1.8	9.68
7/19/2004[2]		7.71	28.05	853	0.05	1.1
3/15/2005[1]	15:32	7.87	25.9	1095	7.26	8.56
8/26/2005[1]	17:00	7.52	27.5	680	7.35	3.98
10/27/2005[1]	14:25	6.97	23.3	615	5.2	3.15
2/27/2006[1]	17:10	6.87	22.1	769	5.7	4.58
8/21-29/2006[2]	14:25	No Data	27.0-31.3	No Data	No Data	No Data
8/22/2006[1]	8:40	6.8	26.8	530	84% sat.	85.8
FGCU						
12/10/2003[2]		7.59*	20.29	482	3.11	183**
2/25/2004		7.15	19.3	190	3.2	203
3/17/2005[1]	17:20	7.1	19.3	41.9	7.44	3.63
4/8/2005[1]	12:25	7.08	23.2	281	0.47	12.1
8/29/2005[1]	16:00	7.6	32.3	250	3.46	2.34
10/26/2005[1]	16:00	7.6	32.3	250	3.46	2.34
2/27/2006[1]	11:30	7.12	17.6	261	5.96	2.90

** = sediment was disturbed by sonde at the time of measurement

Table 3: **Field Parameter Summary**
Project: **Estero Bay Phase II**
PSI Project No: **552-1G002**

		pH	Temperature (°C)	Conductivity (us)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)
Galeana Street						
12/17/2003		No data*	20.4	246	4.9	61
6/9/2004[1]	16:25	6.63	25.1	211	6.3	No data
6/9/2004[1]	16:45	6.78	26.1	136	5.5	30
6/9/2004[1]	17:00	7.37	26.5	196	4.4	78
2/3/2005[1]	11:30	8.1	26.8	1196	9.05	28.9
2/3/2005-2/5/2005[2]		7.6-7.9	8.5-28.5	No data	7.6-8.2	No data
2/21/2005[1]		No data	20.6	1340	9.42	17.1
3/3/2005[1]		No data*	15.0	850	5.18	8.29
3/3/2005-3/6/2005[2]		7.0-7.3	15.0-22.0	No data	3.5-10.4	No data
3/16/2005[1]		7.6	26.1	1169	6.89	5.31
4/7/2005[1]		7.9	25.7	714	7.84	4.21
4/8/2005[1]		7.48	26.9	484	No Data**	8.87
4/7/2005-4/8/2005[2]		7.1-7.7	22.0-25.8	306-780	3.3-10.7	No data
8/29/2005[1]	16:36	7.02	31.7	563	113%	4.69
8/29/2005[1]	16:42	7.11	31.4	563	105%	4.12
8/29/2005[1]	16:50	7.30	31.4	565	101%	4.42
2/27/2006[1]		8.08	17.8	934	14.2	268
6/13/2006[1]		7.59	27.1	501	4.0	21
* pH reading discarded due to faulty field meter						
** Dissolved oxygen meter out of calibration						
Kiehl Canal						
1/6/2005[1]		7.7	23.4	491	6.99	3.7
8/29/2005[1]	13:19	6.4	30.7	303	42.4% sat.	2.10
8/29/2005[1]	13:33	7.05	30.7	252	43.3% sat.	1.08
8/29/2005[1]	13:40	7.03	30.6	255	44.1% sat.	0.98
9/21/2005[1]	11:40	7.29	27.1	293	1.99 mg/L 23.3 % sat.	4.03
2/27/2006[1]	10:40	6.81	22.6	445	2.45 mg/L 29.5% sat.	1.30
Koreshan State Park						
11/6/2003		6	24.7	532	No data	2
7/19/2004[1]		7.54	24.9	381	7.3	4.01
7/19/2004[1]		7.4-8.2	25.7-31	345-684	No data	No data
4/7/2005-4/8/2005[2]		7.26-7.89	21.75-29.2	408-694	4.72-5.80	0.3-14.8
4/8/2005[1]		7.89	30.3	717	No data	2.91
8/29/2005[1]		7.48-7.58	35.9-36.1	603-606	65.6-69.6 % sat.	2.74-3.64
10/27/2005[1]		6.72	22.7	547	7.00	3.43
8/21-29/2006[2]		7.38-7.96	24.9-38.7	No data	3.80-6.00	No data

Table 3: **Field Parameter Summary**
Project: **Estero Bay Phase II**
PSI Project No: **552-1G002**

		pH	Temperature (°C)	Conductivity (us)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)
Mullock Creek						
12/17/2003[1]	off bank	No data*	23.4	616	1.8	31
12/17/2003[1]	from channel midpoint	No data*	22.8	602	No data	2.1
4/28/2004[1]		7.75	27.0	686	2.0	9.14
7/28/2004[1]	16:10	7.28	27.2	612	2.7	9.95
7/28/2004[1]	16:35	7.16	28.6	614	2.6	6.8
3/16/2005[1]		7.17	25.4	1115	1.8	7.45
3/17/2005[1]		7.16	21.1	728	4.0	16.1
8/29/2005[1]		6.58	30.1	622	32.1 % sat.	5.01
8/29/2005[1]		6.81	29.3	621	31.6 % sat.	5.14
8/29/2005[1]		6.89	29.2	616	30.8 % sat.	5.55
10/27/2005[1]	11:00	6.40	22.6	62.6	1.50	3.43
2/27/2006[1]	14:50	7.02	23.6	732	3.74	9.04
5/30/2006[1]	13:00	6.75	29.9	664	3.63	5.28
6/12/2006[1]	17:20	6.80	26.9	695	2.66	5.27
6/13/2006[1]		7.52	26.1	697	2.5	7

1= Readings obtained with field meters
2= Readings obtained with YSI multiparameter sonde
* = pH reading discarded due to faulty field meter

Table 4A: Event Mean Concentration/ Loading Calculation 2003-2004
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Austin Street

Sample Date:	6/8/2004		Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1540	1640	60	2.83E+03	8.49E+03	290	6.97E+07	35	8.42E+06	100	2.40E+07	100	2.40E+07
1640	1700		2.83E+03									
1700	1720		2.83E+03	5.66E+03	280	4.49E+07	580	9.30E+07	100	1.60E+07	90	1.44E+07
1720	1740	60	3.43E+04	3.43E+04	280	2.72E+08	580	5.63E+08	100	9.71E+07	90	8.74E+07
1740	1800		3.43E+04									
1800	1820		3.43E+04									
1820	1840	60	3.43E+04	1.03E+05	270	7.87E+08	35	1.02E+08	100	2.91E+08	110	3.21E+08
1840	1900		3.43E+04									
1900	1920		3.43E+04									
1920	1940	60	3.43E+04	1.03E+05	310	9.03E+08	760	2.21E+09	100	2.91E+08	120	3.50E+08
		Flow Total (cf):	2.54E+05	Parameter Total wt.(ug) :		2.08E+09		2.98E+09		7.20E+08		7.96E+08

Sample Date:	6/8/2004		Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1540	1640	60	2.83E+03	8.49E+03	87	2.09E+07	12000	2.89E+09	1.5	3.61E+05
1640	1700		2.83E+03							
1700	1720		2.83E+03	5.66E+03	66	1.06E+07	24000	3.85E+09	4.5	7.21E+05
1720	1740	60	3.43E+04	3.43E+04	66	6.41E+07	24000	2.33E+10	4.5	4.37E+06
1740	1800		3.43E+04							
1800	1820		3.43E+04							
1820	1840	60	3.43E+04	1.03E+05	165	4.81E+08	24000	6.99E+10	8.2	2.39E+07
1840	1900		3.43E+04							
1900	1920		3.43E+04							
1920	1940	60	3.43E+04	1.03E+05	145	4.23E+08	15000	4.37E+10	10.4	3.03E+07
		Flow Total (cf):	2.54E+05	Parameter Total wt.(ug) :		9.99E+08		1.44E+11		5.97E+07

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	288	**414**	**100**	**111**	**139**	**19957**	**8**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Condition	Grab	12/16/2003	400	860	80	156	187	63000	11
	Flow-weighted	6/8/2004	288	414	100	111	139	19957	8
	Average Concentrations		*344*	*637*	*90*	*134*	*163*	*41479*	*10*
Dry Condition	Grab:	4/28/2004	290	35	4	20	90	7000	5
	Average Concentrations		*290*	*35*	*4*	*20*	*90*	*7000*	*5*

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual $Flow_{storm}$ (cf):	2.10E+07	4.50E+02	8.34E+02	1.18E+02	1.75E+02	2.13E+02	5.43E+04	1.24E+01
Annual $Flow_{dry}$ (cf):	5.44E+07	9.83E+02	1.19E+02	1.36E+01	6.78E+01	3.05E+02	2.37E+04	1.69E+01
Acres Drained:	315							
		NOX	TKN	NH3-N	OP	TP	TSS	Cu
Total loading (lb/acre-yr)		**5**	**3.0**	**0.4**	**0.8**	**1.6**	**248**	**0.09**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds L= liter
ug= micrograms
cf= cubic ft

Table 4B: Loading Calculation 2004-2005
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Austin Street

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
	Grab	2/3/2005	2	680	5	1	240	22000	0.5
	Grab	8/29/2005	170	530	68	28	41	4800	0.99
	Average Concentrations		*86*	*605*	*36*	*15*	*141*	*13400*	*0.7*

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual Flow (cf):	6.69E+07	3.58E+02	2.52E+03	1.51E+02	6.04E+01	5.86E+02	5.59E+04	3.11E+00
Acres Drained:	315							
		NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**1.1**	**8**	**0.5**	**0.2**	**1.9**	**177**	**0.01**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds
ug= micrograms
cf= cubic ft
L= liter

Table 4C: Loading Calculation 2005-2006
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Austin Street

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Conditon	Grab	6/12/2006	1100	550	73	42	72	7600	5.9
	Grab	6/13/2006	94	1100	170	87	87	5800	3.1
	Average Concentrations		*597*	*825*	*122*	*65*	*80*	*6700*	*5*
Dry Condition	Grab	10/27/2005	32	630	220	52	62	6900	1.1
	Grab	2/27/2006	60	550	44	34	120	38000	1.1
	Average Concentrations		*46*	*590*	*132*	*43*	*91*	*6900*	*1*

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual $Flow_{storm}$ (cf):	1.42E+07	5.28E+02	7.30E+02	1.07E+02	5.71E+01	7.03E+01	5.93E+03	3.98E+00
Annual $Flow_{dry}$ (cf):	3.08E+07	1.15E+02	1.06E+03	8.44E+01	6.52E+01	2.30E+02	7.29E+04	2.11E+00
Acres Drained:	315							
		NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**2.0**	**6**	**0.6**	**0.4**	**1.0**	**250**	**0.02**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds
ug= micrograms
cf= cubic ft
L= liter
TSS on 2/27/06 was anomalously high and discarded from the loading calculation. Stage was 0.5 ft. (very low) at the time of sampling

Table 5A: Event Mean Concentration/Loading Calculation 2003-2004
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Brooks Tropical

Sample Date:	2/25/2004		Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
940	1000		1.27E+04									
1000	1020		1.31E+04									
1020	1040	60	1.28E+04	3.86E+04	200	2.19E+08	1300	1.42E+09	50	5.47E+07	10	1.09E+07
1040	1100		1.28E+04									
1100	1120		1.29E+04									
1120	1140	60	1.41E+04	3.98E+04	190	2.14E+08	1200	1.35E+09	20	2.26E+07	20	2.26E+07
1140	1200		1.89E+04									
1200	1220		1.93E+04									
1220	1240	60	1.89E+04	5.22E+04	210	3.11E+08	1100	1.63E+09	54	7.98E+07	20	2.96E+07
1240	1300		1.83E+04									
1300	1320		1.86E+04									
1320	1340	60	1.89E+04	5.58E+04	330	5.22E+08	1000	1.58E+09	50	7.90E+07	20	3.16E+07
		Flow Total (cf):	1.91E+05	Parameter Total wt.(ug) :		1.27E+09		5.98E+09		2.36E+08		9.47E+07

Sample Date:	2/25/2004		Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
940	1000		1.27E+04							
1000	1020		1.31E+04							
1020	1040	60	1.28E+04	3.86E+04	41	4.48E+07	7000	7.65E+09	4.1	4.48E+06
1040	1100		1.28E+04							
1100	1120		1.29E+04							
1120	1140	60	1.41E+04	3.98E+04	14	1.58E+07	6000	6.77E+09	2.8	3.16E+06
1140	1200		1.89E+04							
1200	1220		1.93E+04							
1220	1240	60	1.89E+04	5.70E+04	51	8.23E+07	17000	2.74E+10	4.4	7.10E+06
1240	1300		1.83E+04							
1300	1320		1.86E+04							
1320	1340	60	1.89E+04	5.58E+04	58	9.17E+07	10000	1.58E+10	2.6	4.11E+06
		Flow Total (cf):	1.91E+05	Parameter Total wt.(ug) :		2.35E+08		5.77E+10		1.89E+07

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	234	**1104**	**44**	**17**	**43**	**10647**	**3**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)
lb = pounds
ug= micrograms
cf= cubic ft
L= liter

Table 5A: Event Mean Concentration/Loading Calculation 2003-2004
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Brooks Tropical

Sample Date:	6/7/2004		Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1700	1720		1.20E+03									
1720	1740		1.20E+03									
1740	1800	60	1.20E+03	3.60E+03	40	4.08E+06	250	2.55E+07	60	6.12E+06	40	4.08E+06
1800	1820		1.20E+03									
1820	1840		1.20E+03									
1840	1900	60	1.20E+03	3.60E+03	50	5.10E+06	250	2.55E+07	60	6.12E+06	30	3.06E+06
		Flow Total (cf):	7.20E+03	Parameter Total wt.(ug) :		9.18E+06		5.10E+07		1.22E+07		7.14E+06

Sample Date:	6/7/2004		Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1700	1720		1.20E+03							
1720	1740		1.20E+03							
1740	1800	60	1.20E+03	3.60E+03	99	1.01E+07	7000	7.14E+08	5.5	5.61E+05
1800	1820		1.20E+03							
1820	1840		1.20E+03							
1840	1900	60	1.20E+03	3.60E+03	33	3.36E+06	1000	1.02E+08	3.3	3.36E+05
		Flow Total (cf):	7.20E+03	Parameter Total wt.(ug) :		1.35E+07		8.16E+08		8.97E+05

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	45	**250**	**60**	**35**	**66**	**4000**	**4**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)
lb = pounds
ug= micrograms
cf= cubic ft
L= liter

Table 5A: **Event Mean Concentration/Loading Calculation 2003-2004**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**
Station: **Brooks Tropical**

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Condition	Flow-weighted	2/25/2004	234	1104	44	17	43	10647	3
	Flow-weighted	6/7/2004	45	250	60	35	66	4000	4
	Average Concentrations		*140*	*677*	*52*	*26*	*55*	*7324*	*4*
Dry Condition	Grab:	2/25/2004	230	1100	57	10	61	5000	4.2
	Average Concentrations		*230*	*1100*	*57*	*10*	*61*	*5000*	*4.2*

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual $Flow_{storm}$ (cf):	2.21E+08	1.92E+03	9.32E+03	7.16E+02	3.58E+02	7.50E+02	1.01E+05	4.82E+01
Annual $Flow_{dry}$ (cf):	8.59E+08	1.23E+04	5.89E+04	3.05E+03	5.35E+02	3.26E+03	2.68E+05	2.25E+02
Acres Drained:	620							
		NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**23**	**110**	**6**	**1.4**	**6**	**594**	**0.4**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre

Table 5B: Loading Calculation 2004-2005
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Brooks Tropical

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
	Grab	1/6/2005	100	940	105	1	25	2000	1.2
	Grab	8/29/2005	88	740	48	11	24	2500	1.1
	Average Concentrations		*94*	*840*	*77*	*6*	*24.5*	*2250*	*1.15*

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual Flow (cf):	8.97E+08	5.25E+03	4.69E+04	4.28E+03	3.35E+02	1.37E+03	1.26E+05	6.43E+01
Acres Drained:	620							
		NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**8**	**76**	**6.9**	**0.54**	**2.21**	**203**	**0.10**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds
ug= micrograms
cf= cubic ft
L= liter

Table 5C: Loading Calculation 2005-2006
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Brooks Tropical

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Conditon	Grab	9/20/2005	630	740	7	57	16	385	0.235
	Grab	10/26/2005	1300	1200	280	200	190	5900	11
	Grab	6/12/2006	730	1600	57	9.8	120	27000	4.8
	Average Concentrations		*887*	*1180*	*115*	*89*	*109*	*11095*	*5*
Dry Condition	Grab	2/27/2006	92	730	7	15	43	3200	1.1
	Grab	5/25/2006	64	860	60	3.3	5.8	5000	0.7
	Average Concentrations		*78*	*795*	*34*	*9*	*24*	*4100*	*1*

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual $Flow_{storm}$ (cf):	2.88E+07	1.59E+03	2.12E+03	2.06E+02	1.60E+02	1.95E+02	1.99E+04	9.59E+00
Annual $Flow_{dry}$ (cf):	7.89E+08	3.83E+03	3.91E+04	1.65E+03	4.50E+02	1.20E+03	2.02E+05	4.42E+01
Acres Drained:	620							
		NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**9**	**66**	**3.0**	**1.0**	**2.2**	**357**	**0.09**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds
ug= micrograms
cf= cubic ft
L= liter

Table 6A: **Event Mean Concentration/Loading Calculation 2003-2004**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**
Station: **Corkscrew Road**

Sample Date:	2/25/2004		Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
945	1000	15	218	218	870	5.37E+06	2400	1.48E+07	283	1.75E+06	280	1.73E+06
1000	1030	30	436	436	450	5.56E+06	2600	3.21E+07	375	4.63E+06	220	2.72E+06
1030	1100	30	436	436	650	8.03E+06	2200	2.72E+07	270	3.33E+06	350	4.32E+06
1100	1130	30	391	291	560	4.62E+06	2800	2.31E+07	280	2.31E+06	380	3.13E+06
		Flow Total (cf):	1.48E+03	Parameter Total wt.(ug) :		2.36E+07		9.72E+07		1.20E+07		1.19E+07

Sample Date:	2/25/2004		Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
945	1000	15	218	436	385	4.75E+06	No Data		38.1	4.70E+05
1000	1030	30	436	436	265	3.27E+06	No Data		8.5	1.05E+05
1030	1100	30	436	39	285	3.15E+05	17000	1.88E+07	12.9	1.42E+04
1100	1130	30	391	39	400	3.30E+06	No Data		13.8	1.14E+05
		Flow Total (cf):	1.48E+03	Parameter Total wt.(ug) :		1.16E+07		1.88E+07		7.03E+05

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	562	**2317**	**287**	**284**	**277**	**17000**	**17**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)

lb = pounds

ug= micrograms

cf= cubic ft

L= liter

Table 6A: Event Mean Concentration/Loading Calculation 2003-2004
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Corkscrew Road

Sample Date:	7/19/2004		Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1330	1340	10	502	5.02E+02	610	8.67E+06	340	4.83E+06	30	4.26E+05	2	2.84E+04
1340	1350	10	502									
1350	1400	10	47									
1400	1410	10	47	5.96E+02	630	1.06E+07	520	8.78E+06	29	4.89E+05	50	8.44E+05
		Flow Total (cf):	1.10E+03	Parameter Total wt.(ug) :		1.93E+07		1.36E+07		9.16E+05		8.72E+05

Sample Date:	7/19/2004		Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1330	1340	10	502	5.02E+02	70	9.95E+05	26000	3.70E+08	3.6	5.12E+04
1340	1350	10	502							
1350	1400	10	47							
1400	1410	10	47	5.96E+02	100	1.69E+06	21000	3.54E+08	10.5	1.77E+05
		Flow Total (cf):	1.10E+03	Parameter Total wt.(ug) :		2.68E+06		7.24E+08		2.28E+05

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	621	**438**	**29**	**28**	**86**	**23286**	**7**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Condition	Flow-weighted	2-25-2004	562	2317	287	284	277	17000	17
	Flow-weighted	7-19-2004	621	438	29	28	86	23286	7
	Average Concentrations		*592*	*1378*	*158*	*156*	*182*	*20143*	*12*

Annual $Flow_{tot}$ (cf):	5.46E+04							
Acres Drained:	0.91	NOX	TKN	NH3-N	OP	TP	TSS	Cu
Total loading (lb/acre-yr)		**2.2**	**5**	**0.6**	**0.6**	**0.7**	**75**	**0.04**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds
ug= micrograms
cf= cubic ft
L= liter

Table 6B: **Loading Calculation 2004-2005**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**
Station: **Corkscrew Road**

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
	Grab #1	4-7-2005	990	280	350	7.5	40	60000	32.9
	Grab #2	4-7-2005	70	1060	115	25	100	10000	9
	Average Concentrations		*530*	*670*	*233*	*16*	*70*	*35000*	*21*

Annual $Flow_{tot}$ (cf):	5.11E+04							
Acres Drained:	0.91	**NOX**	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**1.9**	**2.3**	**0.8**	**0.06**	**0.2**	**123**	**0.07**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds
ug= micrograms
cf= cubic ft
L= liter

Table 6C: Event Mean Concentration/Loading Calculation 2005-2006
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Corkscrew Road

Sample Date:	5/25/2006		Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1400	1420	20	6	6	800	1.36E+05	950	1.61E+05	260	4.42E+04	65	1.10E+04
1420	1440	20	3.6	3.6	1200	1.22E+05	1200	1.22E+05	220	2.24E+04	81	8.26E+03
1440	1520	40	72	72	1000	2.04E+06	1500	3.06E+06	260	5.30E+05	85	1.73E+05
1520	1540	20	3.6	3.6	720	7.34E+04	1100	1.12E+05	220	2.24E+04	73	7.44E+03
		Flow Total (cf):	8.52E+01	Parameter Total wt.(ug) :		2.37E+06		3.45E+06		6.19E+05		2.00E+05

Sample Date:	5/25/2006		Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1400	1420	20	6	6	110	1.87E+04	21000	3.57E+06	14	2.38E+03
1420	1440	20	3.6	3.6	67	6.83E+03	13000	1.33E+06	20	2.04E+03
1440	1520	40	72	72	230	4.69E+05	55000	1.12E+08	29	5.91E+04
1520	1540	20	3.6	3.6	180	1.84E+04	36000	3.67E+06	24	2.45E+03
		Flow Total (cf):	8.52E+01	Parameter Total wt.(ug) :		5.13E+05		1.21E+08		6.60E+04

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	983	**1432**	**257**	**83**	**213**	**50028**	**27**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
	Flow-weighted	5-25-2006	983	1432	257	83	213	50028	27
	Grab	6-13-2006	100	330	170	11	44	19000	11
	Average Concentrations		*542*	*881*	*214*	*47*	*129*	*34514*	*19*
	Annual $Flow_{tot}$ (cf):	3.95E+04							
	Acres Drained:	0.91	**NOX**	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
	Total loading (lb/acre-yr)		**1.5**	**2.4**	**0.6**	**0.1**	**0.3**	**93**	**0.05**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds
ug= micrograms
cf= cubic ft
L= liter

Table 7A: Loading Calculation 2004-2005
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Corkscrew Swamp

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
	Grab	8/29/2005	8.3	860	7	0.75	16	385	0.24

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual Flow (cf):	4.84E+08	2.50E+02	2.59E+04	2.11E+02	2.26E+01	4.82E+02	1.16E+04	7.24E+00
Acres Drained:	862							

	NOX	TKN	NH3-N	OP	TP	TSS	Cu
Total loading (lb/acre-yr)	**0.3**	**30**	**0.2**	**0.03**	**0.6**	**13**	**0.01**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds
ug= micrograms
cf= cubic ft
L= liter
* TSS was present in the associated equipment blank at 4500 ug/L. The TSS field sample result of 4800 ug/L has been discarded for the loading calculation. Instead, 1/2 of the 770 ug/l method detection level has been utilized for the loading calculation.

Table 7B: Loading Calculation 2005-2006
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Corkscrew Swamp

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
	Grab	10/26/2005	99	560	7	1.7	11	2400	1.05

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual Flow (cf):	2.00E+08	1.23E+03	6.98E+03	8.72E+01	2.12E+01	1.37E+02	2.99E+04	1.31E+01
Acres Drained:	862							
		NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**1.4**	**8**	**0.1**	**0.02**	**0.16**	**35**	**0.02**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds
ug= micrograms
cf= cubic ft
L= liter

Table 8A: Event Mean Concentration/Loading Calculation 2003-2004

Project: Estero Bay Phase II

PSI Project #: 552-1G002

Station: Eastwood Golf Course

Sample Date: 2/25/04			Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
840	900	20	1.32E+04	1.33E+04	410	1.55E+08	1500	5.66E+08	33	1.24E+07	1	3.77E+05
900	920		1.31E+04									
900	940	40	1.32E+04	2.63E+04	280	2.09E+08	1300	9.68E+08	60	4.47E+07	1	7.45E+05
940	1000	20	1.29E+04	1.32E+04	270	1.01E+08	1200	4.48E+08	59	2.20E+07	1	3.73E+05
1000	1020		1.29E+04									
1020	1040	40	1.28E+04	2.59E+04	210	1.54E+08	1400	1.02E+09	55	4.03E+07	1	7.32E+05
1040	1100	20	1.27E+04	2.84E+03	30	2.41E+06	1300	1.04E+08	68	5.46E+06	1	8.03E+04
		Flow Total (cf):	7.81E+04	Parameter Total wt.(ug) :		6.20E+08		3.11E+09		1.25E+08		2.31E+06

Sample Date: 2/25/04			Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
840	900	20	1.32E+04	1.32E+04	32	1.19E+07	9000	3.36E+09	8.5	3.17E+06
900	920		1.31E+04							
920	940	40	1.32E+04	2.63E+04	19	1.42E+07	5000	3.72E+09	11.5	8.57E+06
940	1000	20	1.29E+04	1.29E+04	36	1.32E+07	3000	1.10E+09	10	3.66E+06
1000	1020		1.29E+04							
1020	1040	40	1.28E+04	2.57E+04	30	2.19E+07	3000	2.19E+09	9	6.56E+06
1040	1100	20	1.27E+04	1.27E+04	35	1.26E+07	6000	2.15E+09	10.9	3.91E+06
		Flow Total (cf):	9.08E+04	Parameter Total wt.(ug) :		7.37E+07		1.25E+10		2.59E+07

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	280	**1406**	**56**	**1.0**	**29**	**4869**	**10**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre

lb = pounds

ug= micrograms

cf= cubic ft

L= liter

Table 8A: Event Mean Concentration/Loading Calculation 2003-2004

Project: Estero Bay Phase II

PSI Project #: 552-1G002

Station: Eastwood Golf Course

Sample Date: 7/19/04			Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1220	1240	20	5.75E+03	5.75E+03	16	2.61E+06	680	1.11E+08	86	1.40E+07	1	1.63E+05
1240	1440	120	3.45E+04	3.45E+04	290	2.83E+08	670	6.55E+08	95	9.29E+07	1	9.77E+05
1440	1640	120	3.45E+04	3.45E+04	100	9.77E+07	690	6.74E+08	92	8.99E+07	1	9.77E+05
		Flow Total (cf):	7.48E+04	Parameter Total wt.(ug) :		3.84E+08		1.44E+09		1.97E+08		2.12E+06

Sample Date: 7/19/04			Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1220	1240	20	5.75E+03	5.75E+03	30	4.89E+06	2000	3.26E+08	4.4	7.17E+05
1240	1440	120	3.45E+04	3.45E+04	9	8.80E+06	2000	1.95E+09	3	2.93E+06
1440	1640	120	3.45E+04	3.45E+04	12	1.17E+07	3000	2.93E+09	2.2	2.15E+06
		Flow Total (cf):	7.48E+04	Parameter Total wt.(ug) :		2.54E+07		5.21E+09		5.80E+06

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	181	**680**	**93**	**1.0**	**12**	**2462**	**2.7**

Sample Date: 8/28/03		NOX	TKN	NH3-N	OP	TP	TSS	Cu
Time	Flow (ft^3)	Parameter conc. (ug/L)	Parameter conc. (ug/L)	Parameter conc. (ug/L)	Parameter conc. (ug/l)	Parameter conc. (ug/l)	Parameter conc. (ug/l)	Parameter conc. (ug/l)
First flush	no data	240	830	20	1	114	9000	0.5
30 minutes	no data	210	780	20	1	85	7000	0.5
1 hour	no data	230	790	20	1	99	3000	0.5
1.5 hours	no data	320	870	20	1	110	1000	0.5

Average Concentration (ug/L):	**250**	**818**	**20**	**1**	**102**	**5000**	**0.5**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)

lb = pounds cf= cubic ft

ug= micrograms L= liter

Table 8A: **Event Mean Concentration/Loading Calculation 2003-2004**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**
Station: **Eastwood Golf Course**

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Condition	Average	8/28/2003	250	818	20	1.0	102	5000	0.5
	Flow-weighted	2/25/2004	280	1406	56	1.0	29	4869	10
	Flow-weighted	7/19/2004	181	680	93	1.0	12	2462	2.7
	Average Concentrations		*237*	*968*	*56*	*1.0*	*48*	*4110*	*4*
Dry Condition	Grab:	2/25/2004	390	1100	63	1.0	2.5	4000	9.4
	Average Concentrations		*390*	*1100*	*63*	*1.0*	*2.5*	*4000*	*9.4*

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual $Flow_{storm}$ (cf):	7.88E+07	1.16E+03	4.75E+03	2.77E+02	4.91E+00	2.34E+02	2.02E+04	2.16E+01
Annual $Flow_{dry}$ (cf):	1.23E+08	2.99E+03	8.43E+03	4.83E+02	7.66E+00	1.92E+01	3.07E+04	7.20E+01
Acres Drained:	207							
		NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**20**	**64**	**3.7**	**0.1**	**1.2**	**246**	**0.5**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre

lb = pounds

ug= micrograms

cf= cubic ft

L= liter

Table 8B: Loading Calculation 2004-2005
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Eastwood Golf Course

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
	Grab	3/15/2005	390	2010	19	7.5	90	9000	5.7
	Grab	8/26/2005	27	790	60	300*	21	5200	3.4
	Average Concentrations		*209*	*1400*	*40*	*7.5*	*56*	*7100*	*4.6*

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual Flow (cf):	1.36E+08	1.77E+03	1.19E+04	3.35E+02	6.36E+01	4.70E+02	6.02E+04	3.86E+01
Acres Drained:	207							
		NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**9**	**57**	**1.6**	**0.3**	**2**	**291**	**0.2**

*= anomolously high value was discarded from the loading calculation
Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds
ug= micrograms
cf= cubic ft
L= liter

Table 8C: **Event Mean Concentration/Loading Calculation 2005-2006**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**
Station: **Eastwood Golf Course**

Sample Date: 8-29-06/8-30-06			Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1400	200	480	3.89E+05	3.89E+05	20	2.20E+08	1400	1.54E+10	160	1.76E+09	0.8	8.81E+06
200	1000	480	2.59E+05	2.59E+05	21	1.54E+08	1000	7.34E+09	240	1.76E+09	0.8	5.87E+06
1000	1200	120	6.48E+05	6.48E+05	27	4.95E+08	940	1.73E+10	230	4.22E+09	0.8	1.47E+07
1200	1800	360	1.94E+05	1.94E+05	40	2.20E+08	910	5.01E+09	270	1.49E+09	0.8	4.40E+06
		Flow Total (cf):	1.49E+06	Parameter Total wt.(ug) :		1.09E+09		4.50E+10		9.23E+09		3.38E+07

Sample Date: 8-29-06/8-30-06			Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1400	200	480	3.89E+05	3.89E+05	84	9.25E+08	19000	2.09E+11	6.4	7.05E+07
200	1000	480	2.59E+05	2.59E+05	30	2.20E+08	26000	1.91E+11	0.7	5.14E+06
1000	1200	120	2.14E+06	6.48E+05	27	4.95E+08	4500	8.26E+10	0.7	1.28E+07
1200	1800	360	1.94E+05	1.94E+05	42	2.31E+08	5500	3.03E+10	0.7	3.85E+06
		Flow Total (cf):	1.49E+06	Parameter Total wt.(ug) :		1.87E+09		5.13E+11		9.23E+07

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	26	**1067**	**219**	**1**	**44**	**12152**	**2**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Condition	Grab	10/27/2005	37	810	62	3.9	38	10000	3.6
	Flow-weighted	8/29-30/2006	26	1067	213	1	44	12152	2
	Average Concentrations		*32*	*939*	*138*	*2.5*	*41*	*11076*	*2.8*
Dry Condition	Grab	2/27/2006	110	690	7	5	20	3200	3.1
Annual $Flow_{storm}$ (cf):		3.00E+07	5.89E+01	1.75E+03	2.57E+02	4.58E+00	7.66E+01	2.07E+04	5.23E+00
Annual $Flow_{dry}$ (cf):		7.20E+07	4.93E+02	3.10E+03	3.14E+01	2.24E+01	8.97E+01	1.44E+04	1.39E+01
Acres Drained:		207							
			NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)			**2.7**	**23**	**1.4**	**0.1**	**0.8**	**169**	**0.09**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds cf= cubic ft
ug= micrograms L= liter
Note: Duplicate samples were taken at the Eastwood Golf Course site. The highest value was inserted into our loading calculations.

Table 9A: Event Mean Concentration/Loading Calculation 2003-2004
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: FGCU

Sample Date: 11/19/03	NOX	TKN	NH3-N	OP	TP	TSS	Cu
First flush	280	880	135	13	46	5000	3.4
30 minutes	300	910	151	11	50	5000	3.6
Average Concentration (ug/L):	**290**	**895**	**143**	**12**	**48**	**5000**	**3.5**

Sample Date: 2/25/04	NOX	TKN	NH3-N	OP	TP	TSS	Cu
First flush	270	6000*	331*	6	255*	310000*	14.8
30 minutes	130	1600	110	3	31	10000	5.7
1 hour	280	800	52	2	55	5000	5.7
1.5 hours	490	1500	63	20	36	24000	5.1
Average Concentration (ug/L):	**293**	**1300**	**75**	**8**	**41**	**13000**	**8**

* discarded for average

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Condition	Average	11/19/2003	290	895	143	12	48	5000	3.5
	Average	2/25/2004	293	1300	75	8	41	13000	8
	Average Concentrations		*292*	*1098*	*109*	*10*	*45*	*9000*	*5.8*
Dry Condition	Grab	11/19/2003	200	840	134	16	48	4000	2.7
	Grab	2/25/2004	10	800	28	70	40	1000	6.9
	Average Concentrations		*105*	*820*	*81*	*43*	*44*	*2500*	*4.8*

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual $Flow_{storm}$ (cf):	1.14E+07	2.07E+02	7.80E+02	7.74E+01	7.10E+00	3.16E+01	6.39E+03	4.08E+00
Annual $Flow_{dry}$ (cf):	3.30E+06	2.16E+01	1.69E+02	1.67E+01	8.84E+00	9.05E+00	5.14E+02	9.87E-01
Acres Drained:	68							

	NOX	TKN	NH3-N	OP	TP	TSS	Cu
Total loading (lb/acre-yr)	**3.4**	**14**	**1.4**	**0.2**	**0.6**	**102**	**0.07**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds cf= cubic ft
ug= micrograms L= liter

Table 9B: **Loading Calculation 2004-2005**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**
Station: **FGCU**

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Condition	Grab	3/17/2005	445	35	43	1	1	500	10.4
	Grab	4/8/2005	3.5	1130	73	7.5	190	5000	3.5
	Average Concentrations		*224*	*583*	*58*	*4*	*96*	*2750*	*7*
Dry Condition	Grab	8/29/2005	21	540	34	0.75	18	1200	1.5

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual $Flow_{storm}$ (cf):	3.58E+06	5.00E+01	1.30E+02	1.29E+01	9.48E-01	2.13E+01	6.13E+02	1.55E+00
Annual $Flow_{dry}$ (cf):	2.38E+06	3.11E+00	8.01E+01	5.04E+00	1.11E-01	2.67E+00	1.78E+02	2.22E-01
Acres Drained:	68							

	NOX	TKN	NH3-N	OP	TP	TSS	Cu
Total loading (lb/acre-yr)	**0.8**	**3.1**	**0.3**	**0.02**	**0.4**	**12**	**0.03**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds
ug= micrograms
cf= cubic ft
L= liter

Table 9C: **Loading Calculation 2005-2006**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**
Station: **FGCU**

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Condition	Grab	10/26/2005	22	410	7	1.6	15	1400	1.05
Dry Condition	Grab	2/27/2006	590	590	55	170	200	2000	2.8

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual $Flow_{storm}$ (cf):	8.86E+06	1.21E+01	2.26E+02	3.86E+00	8.83E-01	8.28E+00	7.73E+02	5.80E-01
Annual $Flow_{dry}$ (cf):	2.34E+06	8.60E+01	8.60E+01	8.02E+00	2.48E+01	2.92E+01	2.92E+02	4.08E-01
Acres Drained:	68							

	NOX	TKN	NH3-N	OP	TP	TSS	Cu
Total loading (lb/acre-yr)	**1.4**	**5**	**0.2**	**0.4**	**0.6**	**16**	**0.01**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds
ug= micrograms
cf= cubic ft
L= liter

Table 10A: Event Mean Concentration/Loading Calculation 2003-2004
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Galeana Street

Sample Date: 6-9-04			Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1540	1600	20	1.20E+03	1.20E+03	22	7.48E+05	250	8.50E+06	69	2.34E+06	20	6.80E+05
1600	1620	20	2.40E+03									
1620	1640	20	6.00E+03	8.40E+03	210	5.00E+07	250	5.95E+07	50	1.19E+07	40	9.52E+06
1640	1700	20	6.00E+03	6.00E+03	180	3.06E+07	250	4.25E+07	39	6.63E+06	30	5.10E+06
		Flow Total (cf):	1.56E+04	Parameter Total wt.(ug) :		8.13E+07		1.10E+08		2.09E+07		1.53E+07

Sample Date: 6-9-04			Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1540	1600	20	1.20E+03	1.20E+03	76	2.58E+06	10000	3.40E+08	5.2	1.77E+05
1600	1620	20	2.40E+03							
1620	1640	20	6.00E+03	8.40E+03	72	1.71E+07	9000	2.14E+09	4.1	9.75E+05
1640	1700	20	6.00E+03	6.00E+03	45	7.65E+06	25000	4.25E+09	7.1	1.21E+06
		Flow Total (cf):	1.56E+04	Parameter Total wt.(ug) :		2.74E+07		6.73E+09		2.36E+06

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	184	**250**	**47**	**35**	**62**	**15231**	**5**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Condition	Grab	12/17/2003	300	310	23	24	41	7000	2.5
	Flow-weighted	6/9/2004	184	250	47	35	62	15231	5
	Average Concentrations		*242*	*280*	*35*	*30*	*52*	*11116*	*4*
Dry Condition	Grab:	4/28/2004	310	35	4	3	58	10000	3.6
	Average Concentrations		*310*	*35*	*4*	*3*	*58*	*10000*	*3.6*

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual $Flow_{storm}$ (cf):	4.28E+06	6.45E+01	7.47E+01	9.33E+00	7.87E+00	1.37E+01	2.96E+03	1.00E+00
Annual $Flow_{dry}$ (cf):	1.55E+07	2.99E+02	3.38E+01	3.86E+00	2.90E+00	5.60E+01	9.66E+03	3.48E+00
Acres Drained:	46							
		NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**8**	**2.4**	**0.3**	**0.2**	**1.5**	**274**	**0.10**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre

lb = pounds cf= cubic ft

ug= micrograms L= liter

Table 10B: Event Mean Concentration/Loading Calculation 2004-2005
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Galeana Street

Sample Date: 4-7-05/4-8-05			Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
2240	2300	20	2.10E+03	2.10E+03	120	7.12E+06	1290	7.66E+07	20	1.19E+06	7.5	4.45E+05
140	200	180	1.38E+04	1.38E+04	30	1.17E+07	500	1.95E+08	19	7.43E+06	7.5	2.93E+06
440	500	180	1.01E+04	1.01E+04	3.5	1.01E+06	1180	3.39E+08	49	1.41E+07	7.5	2.15E+06
740	800	180	8.98E+03	8.98E+03	3.5	8.90E+05	1060	2.70E+08	70	1.78E+07	7.5	1.91E+06
		Flow Total (cf):	3.50E+04	Parameter Total wt.(ug) :		2.07E+07		8.81E+08		4.05E+07		7.44E+06

Sample Date: 4-7-05/4-8-05			Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
2240	2300	20	2.10E+03	2.10E+03	70	4.15E+06	1000	5.93E+07	2.2	1.31E+05
140	200	180	1.38E+04	1.38E+04	40	1.56E+07	2000	7.82E+08	5.9	2.31E+06
440	500	180	1.01E+04	1.01E+04	30	8.62E+06	1000	2.87E+08	1.6	4.60E+05
740	800	180	8.98E+03	8.98E+03	1.5	3.82E+05	2000	5.09E+08	0.5	1.27E+05
		Flow Total (cf):	3.50E+04	Parameter Total wt.(ug) :		2.88E+07		1.64E+09		3.02E+06

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	21	**888**	**41**	**8**	**29**	**1651**	**3**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Condition	Flow-weighted	4/7/2005	21	888	41	8	29	1651	3
	Average Concentrations		21	888	41	8	29	1651	3
Dry Condition	Grab:	2/3/2005	2	660	12	1	140	12000	0.5
	Grab:	8/26/2005	98	570	120	3.2	22	4500	0.9
	Average Concentrations		50	615	66	2.1	81	8250	0.7

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual $Flow_{storm}$ (cf):	2.62E+06	3.41E+00	1.45E+02	6.66E+00	1.30E+00	4.73E+00	2.69E+02	4.97E-01
Annual $Flow_{dry}$ (cf):	6.55E+06	2.04E+01	2.51E+02	2.69E+01	8.57E-01	3.31E+01	3.37E+03	2.82E-01
Acres Drained:	46							
		NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**0.5**	**9**	**0.7**	**0.05**	**0.8**	**79**	**0.02**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre

lb = pounds cf= cubic ft

ug= micrograms L= liter

Table 10C: Event Mean Concentration/Loading Calculation 2005-2006
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Galeana Street

Sample Date: 6-12-06/6-13-06			Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1300	2100	480	3.62E+04	3.62E+04	150	1.54E+08	770	7.89E+08	140	1.43E+08	2.1	2.15E+06
2100	1140	880	1.87E+04	1.87E+04	41	2.17E+07	870	4.60E+08	86	4.54E+07	2.4	1.27E+06
		Flow Total (cf):	5.48E+04	Parameter Total wt.(ug) :		1.75E+08		1.25E+09		1.89E+08		3.42E+06

Sample Date: 6-12-06/6-13-06			Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1300	2100	480	3.62E+04	3.62E+04	38	3.89E+07	4000	4.10E+09	2.1	2.15E+06
2100	1140	880	1.87E+04	1.87E+04	26	1.37E+07	1200	6.34E+08	2.9	1.53E+06
		Flow Total (cf):	5.48E+04	Parameter Total wt.(ug) :		5.27E+07		4.73E+09		3.68E+06

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	113	**804**	**122**	**2**	**34**	**3047**	**2**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Condition	Flow-weighted	6/12-13/2006	113	804	122	2	34	3047	2
Dry Condition	Grab:	2/27/2006	20	630	7	17	54	210000*	1.1

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual $Flow_{storm}$ (cf):	9.34E+06	6.58E+01	4.68E+02	7.10E+01	1.16E+00	1.98E+01	1.77E+03	1.16E+00
Annual $Flow_{dry}$ (cf):	7.66E+06	9.54E+00	3.01E+02	3.34E+00	8.11E+00	2.58E+01	No Data	5.25E-01
Acres Drained:	46							
		NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**1.6**	**17**	**1.6**	**0.2**	**1.0**	**39**	**0.04**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre

lb = pounds L= liter

ug= micrograms * TSS concentration was not utilized for the loading calculation (outside of the historical norm).

cf= cubic ft

Table 11A: Event Mean Concentration/Loading Calculation 2003-2004
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Koreshan State Park

Sample Date:	7/19/2004		Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1300	1320	20	1.90E+02	1.90E+02	60	3.24E+05	500	2.70E+06	10	5.39E+04	1	5.39E+03
1320	1340		3.99E+02									
1340	1400	40	5.61E+02	9.60E+02	70	1.90E+06	420	1.14E+07	44	1.20E+06	1	2.72E+04
1400	1420	20	7.38E+02	7.38E+02	4	8.36E+04	390	8.15E+06	53	1.11E+06	1	2.09E+04
1420	1440		7.70E+02									
1440	1500	40	7.96E+02	1.57E+03	60	2.66E+06	370	1.64E+07	66	2.93E+06	1	4.43E+04
		Flow Total (cf):	3.45E+03	Parameter Total wt.(ug) :		4.97E+06		3.87E+07		5.28E+06		9.78E+04

Sample Date:	7/19/2004		Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1300	1320	20	1.90E+02	1.90E+02	12	6.47E+04	1000	5.39E+06	0.5	2.70E+03
1320	1340		3.99E+02							
1340	1400	40	5.61E+02	9.60E+02	40	1.09E+06	2000	5.44E+07	0.5	1.36E+04
1400	1420	20	7.38E+02	7.38E+02	70	1.46E+06	2000	4.18E+07	0.5	1.05E+04
1420	1440		7.70E+02							
1440	1500	40	7.96E+02	1.57E+03	50	2.22E+06	2000	8.87E+07	0.5	2.22E+04
		Flow Total (cf):	3.45E+03	Parameter Total wt.(ug) :		4.83E+06		1.90E+08		4.89E+04

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	51	**395**	**54**	**1.0**	**49**	**1945**	**0.5**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)

Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Grab	11/6/2004	40	620	38	1	7	4000	0.5
Flow-weighted	7/19/2004	51	395	54	1	49	1945	0.5
Average Concentrations		*46*	*508*	*46*	*1*	*28*	*2973*	*1*

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr)	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual $Flow_{tot}$ (cf):	2.76E+06	8	87	8	0.2	5	511	0.1
Acres Drained:	17							
		NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**0.5**	**5**	**0.5**	**0.01**	**0.3**	**30**	**0.01**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre

lb = pounds cf= cubic ft

ug= micrograms L= liter

Table 11B: **Event Mean Concentration/Loading Calculation 2004-2005**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**
Station: **Koreshan State Park**

Sample Date:	4/7-8/2005		Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
2200	2220	20	3.44E+02	3.44E+02	80	7.79E+05	1900	1.85E+07	21	2.05E+05	1	9.74E+03
2220	2240		3.23E+02									
2240	2300		2.94E+02									
2300	2320		2.71E+02									
2320	2340		2.52E+02									
2340	2400		2.37E+02									
2400	20		2.26E+02									
20	40		2.17E+02									
40	100		2.11E+02									
100	120	180	2.05E+02	2.24E+03	3.5	2.22E+05	560	3.55E+07	28	1.77E+06	1	6.33E+04
120	140		2.00E+02									
140	200		1.97E+02									
200	220		1.92E+02									
220	240		1.90E+02									
240	300		1.95E+02									
300	320		1.97E+02									
320	340		1.92E+02									
340	400		1.88E+02									
400	420	180	1.84E+02	1.74E+03	3.5	1.72E+05	1510	7.42E+07	25	1.23E+06	1	4.91E+04
420	440		1.81E+02									
440	500		1.79E+02									
500	520		1.76E+02									
520	540		1.75E+02									
540	600		1.73E+02									
600	620		1.72E+02									
620	640		1.70E+02									
640	700		1.69E+02									
700	720	180	1.68E+02	1.56E+03	3.5	1.55E+05	1570	6.95E+07	19	8.41E+05	1	4.43E+04
		Flow Total (cf):	5.88E+03	Parameter Total wt.(ug) :		1.33E+06		1.98E+08		4.05E+06		1.67E+05

Table 11B: **Event Mean Concentration/Loading Calculation 2004-2005**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**
Station: **Koreshan State Park**

Sample Date:	**4/7-8/2005**		**Analytical Parameter:**		**TP**		**TSS**		**Cu**	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
2200	2220	20	3.44E+02	1.90E+02	40	2.16E+05	4000	2.16E+07	5.7	3.07E+04
2220	2240		3.23E+02							
2240	2300		2.94E+02							
2300	2320		2.71E+02							
2320	2340		2.52E+02							
2340	2400		2.37E+02							
2400	20		2.26E+02							
20	40		2.17E+02							
40	100		2.11E+02							
100	120	180	2.05E+02	2.24E+03	30	1.90E+06	8000	5.07E+08	0.5	3.17E+04
120	140		2.00E+02							
140	200		1.97E+02							
200	220		1.92E+02							
220	240		1.90E+02							
240	300		1.95E+02							
300	320		1.97E+02							
320	340		1.92E+02							
340	400		1.88E+02							
400	420	180	1.84E+02	1.74E+03	20	9.83E+05	5000	2.46E+08	0.5	2.46E+04
420	440		1.81E+02							
440	500		1.79E+02							
500	520		1.76E+02							
520	540		1.75E+02							
540	600		1.73E+02							
600	620		1.72E+02							
620	640		1.70E+02							
640	700		1.69E+02							
700	720	180	1.68E+02	1.56E+03	30	1.33E+06	1000	4.43E+07	0.5	2.21E+04
		Flow Total (cf):	5.88E+03	Parameter Total wt.(ug) :		4.43E+06		8.18E+08		1.09E+05

EMCs (ug/L)	**NOX**	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
	8	**1187**	**24**	**1.0**	**27**	**4915**	**0.7**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)

Table 11B: **Event Mean Concentration/Loading Calculation 2004-2005**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**
Station: **Koreshan State Park**

Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Grab	3/17/2005	3.5	5530	80	1	1	500	1.6
Flow-weighted	4/7/2005-4/8/2005	8	1187	24	1	27	4915	0.7
Grab	8/29/2005	160	800	72	0.75	7.1	2200	0.48
Average Concentrations		*57*	*994*	*59*	*1*	*12*	*2538*	*1*

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual $Flow_{tot}$ (cf):	3.60E+06	13	223	13	0.2	3	569	0.2
Acres Drained:	17							
		NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**0.8**	**13**	**0.8**	**0.01**	**0.2**	**33**	**0.01**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre

lb = pounds
ug= micrograms
cf= cubic ft
L= liter

Table 11C: **Event Mean Concentration/Loading Calculation 2005-2006**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**
Station: **Koreshan State Park**

Sample Date:	8/29-30/2006		Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1820	200	340	4.14E+03	4.14E+03	43	5.04E+06	880	1.03E+08	160	1.88E+07	0.8	9.38E+04
200	1000	480	4.30E+03	4.30E+03	75	9.12E+06	810	9.85E+07	130	1.58E+07	11	1.34E+06
1000	1200	120	2.15E+03	2.15E+03	32	1.95E+06	730	4.44E+07	110	6.70E+06	7.4	4.50E+05
1200	1800	360	9.57E+03	9.57E+03	32	8.67E+06	770	2.09E+08	100	2.71E+07	17	4.61E+06
		Flow Total (cf):	2.02E+04	Parameter Total wt.(ug) :		2.48E+07		4.55E+08		6.84E+07		6.49E+06

Sample Date:	8/29-30/2006		Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1820	200	340	4.14E+03	4.14E+03	9.5	1.11E+06	1150	1.35E+08	0.7	8.21E+04
200	1000	480	4.30E+03	4.30E+03	19	2.31E+06	1150	1.40E+08	0.7	8.52E+04
1000	1200	120	2.15E+03	2.15E+03	49	2.98E+06	1150	7.00E+07	0.7	4.26E+04
1200	1800	360	9.57E+03	9.57E+03	38	1.03E+07	1150	3.12E+08	0.7	1.90E+05
		Flow Total (cf):	2.02E+04	Parameter Total wt.(ug) :		1.67E+07		6.56E+08		3.99E+05

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	43	**797**	**120**	**11.4**	**29**	**1150**	**0.7**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)

Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Grab	10/27/2005	50	700	70	1.6	8.3	385	0.7
Flow-weighted	8/29-30/2006	43	797	120	11.4	29	1150	0.7
Average Concentrations		*47*	*749*	*95*	*7*	*19*	*768*	*0.7*

		NOX (lb/yr)	TKN (lb/yr)	NH3-N (lb/yr	OP (lb/yr)	TP (lb/yr)	TSS (lb/yr)	Cu (lb/yr)
Annual $Flow_{tot.}$ (cf):	2.56E+06	7	119	15	1.0	3	122	0.1
Acres Drained:	17							
		NOX	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**0.4**	**7**	**0.9**	**0.06**	**0.2**	**7**	**0.01**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre

lb = pounds

cf= cubic ft

ug= micrograms

L= liter

Table 12A: Event Mean Concentration/Loading Calculation 2003-2004
Project: Estero Bay Phase II
PSI Project #: 552-1G002
Station: Mullock Creek

Sample Date: 7-28-04			Analytical Parameter:		NOX		TKN		NH3-N		OP	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/L)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1535	1555	20	9.72E+04 est	9.72E+04	130	3.58E+08	700	1.93E+09	120	3.30E+08	20	5.51E+07
1555	1625	30	1.46E+05	1.46E+05	120	4.96E+08	800	3.31E+09	120	4.96E+08	30	1.24E+08
1625	1655	30	1.46E+05 est	1.46E+05	140	5.79E+08	800	3.31E+09	160	6.62E+08	10	4.13E+07
1655	1725	30	1.46E+05 est	1.46E+05	130	5.38E+08	900	3.72E+09	160	6.62E+08	20	8.27E+07
1725	1755	30	1.46E+05 est	1.46E+05	150	6.20E+08	800	3.31E+09	140	5.79E+08	10	4.13E+07
		Flow Total (cf):	6.81E+05	Parameter Total wt.(ug) :		2.59E+09		1.56E+10		2.73E+09		3.44E+08

Sample Date: 7-28-04			Analytical Parameter:		TP		TSS		Cu	
Time (start)	Time (finish)	Elapsed Time(min)	Flow (ft^3)	Total Flow per sample collection (ft^3)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)	Parameter conc. (ug/l)	Parameter wt. (ug)
1535	1555	20	9.72E+04 est	9.72E+04	70	1.93E+08	7000	1.93E+10	0.5	1.38E+06
1555	1625	30	1.46E+05	1.46E+05	80	3.31E+08	6000	2.48E+10	0.5	2.07E+06
1625	1655	30	1.46E+05 est	1.46E+05	90	3.72E+08	4000	1.65E+10	1	4.13E+06
1655	1725	30	1.46E+05 est	1.46E+05	110	4.55E+08	5000	2.07E+10	0.5	2.07E+06
1725	1755	30	1.46E+05 est	1.46E+05	80	3.31E+08	4000	1.65E+10	1	4.13E+06
		Flow Total (cf):	6.81E+05	Parameter Total wt.(ug) :		1.68E+09		9.78E+10		1.38E+07

EMCs (ug/L)	NOX	TKN	NH3-N	OP	TP	TSS	Cu
	134	**807**	**141**	**18**	**87**	**5071**	**0.7**

Event Mean Concentration(EMC) = (Total Parameter Wt(ug)/ Total Flow(cf))/(28.32 L/cf)

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Condition	Grab	12/17/2003	310	660	243	18	39	30000	2.5
	Flow-weighted	7/28/2004	134	807	141	18	87	5071	0.7
	Average Concentrations		*222*	*734*	*192*	*18*	*63*	*17536*	*2*
Dry Condition	Grab:	4/28/2004	430	35	73	10	68	2000	2.1
	Average Concentrations		*430*	*35*	*73*	*10*	*68*	*2000*	*2.1*
	Average Concentrations (Storm/Dry)		*326*	*384*	*133*	*14*	*66*	*9768*	*2*

Annual $Flow_{tot}$ (cf):	9.33E+08							
Acres Drained:	2493	NOX	TKN	NH3-N	OP	TP	TSS	Cu
Total loading (lb/acre-yr)		**8**	**9**	**3.1**	**0.3**	**1.5**	**228**	**0.04**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre

lb = pounds cf= cubic ft

ug= micrograms L= liter

Table 12B: **Loading Calculation 2004-2005**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**
Station: **Mullock Creek**

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Condition	Grab	3/17/2005	163	1320	195	7.5	40	4000	0.5
Dry Condition	Grab	8/29/2005	110	780	230	24	34	7500	1.4

Annual $Flow_{storm}$ (cf):	6.24E+08	6.34E+03	5.13E+04	7.58E+03	2.92E+02	1.56E+03	1.56E+05	1.94E+01
Annual $Flow_{dry}$ (cf):	2.19E+08	1.50E+03	1.06E+04	3.14E+03	3.27E+02	4.64E+02	1.02E+05	1.91E+01
Acres Drained:	2493	**NOX**	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)		**3.1**	**25**	**4.3**	**0.2**	**0.8**	**103**	**0.02**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds
ug= micrograms
cf= cubic ft
L= liter
Note: 3/17/05 TKN value for loading is 1320 ug/L . A TKN value of 1830 ug/L was in equipment blank and was subtracted from the measured concentration of 3150 ug/L to obtain the 1320 ug/L value.

Table 12C: **Loading Calculation 2005-2006**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**
Station: **Mullock Creek**

	Sample Type	Sample Date	NOX (ug/L)	TKN (ug/L)	NH3-N (ug/L)	OP (ug/L)	TP (ug/L)	TSS (ug/L)	Cu (ug/L)
Storm Condition	Grab	10/27/2005	26	830	270	45	61	6900	1.05
	Grab	6/12/2006	360	690	140	10	15	1400	2.9
	Grab	6/13/2006	79	760	280	17	33	385	2.1
	Average Concentrations		*155*	*760*	*230*	*24*	*36*	*2895*	*2.0*
Dry Condition	Grab	2/27/2006	130	600	140	19	41	4200	1.05
	Grab	5/30/2006	730	740	160	11	14	1400	2.9
	Average Concentrations		*287*	*447*	*100*	*10*	*18*	*1867*	*1.3*
Annual $Flow_{storm}$ (cf):		2.34E+08	2.26E+03	1.11E+04	3.35E+03	3.50E+02	5.30E+02	4.22E+04	2.94E+01
Annual $Flow_{dry}$ (cf):		3.76E+00	6.72E-05	1.05E-04	2.34E-05	2.34E-06	4.29E-06	4.37E-04	3.08E-07
Acres Drained:		2493	**NOX**	**TKN**	**NH3-N**	**OP**	**TP**	**TSS**	**Cu**
Total loading (lb/acre-yr)			**0.9**	**4.4**	**1.3**	**0.1**	**0.2**	**17**	**0.01**

Total Loading = (Average Concentration (ug/L) x Annual Flow (cf) x (28.32 L/cf) x (2.2E-09 lb/ug))/ Acre
lb = pounds
ug= micrograms
cf= cubic ft
L= liter

Table 13A: **2003-2004 Pollutant Loading Estimate for Estero Bay Phase II**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**

Parameter Loading Rates	NOX	TKN	NH3 -N	OP	TP	TSS	Cu
Residential Land Use Type:							
Austin Street Station Monitoring Station	5 lb/acre-year	3.0 lb/acre-year	0.4 lb/acre-year	0.8 lb/acre-year	1.6 lb/acre-year	248 lb/acre-year	0.09 lb/acre-year
Mullock Creek Monitoring Station	8 lb/acre-year	9 lb/acre-year	3.1 lb/acre-year	0.3 lb/acre-year	1.5 lb/acre-year	228 lb/acre-year	0.04 lb/acre-year
Average Loading for Residential Land Use Type :	***7 lb/acre-year***	***6 lb/acre-year***	***1.8 lb/acre-year***	***0.6 lb/acre-year***	***1.6 lb/acre-year***	***238 lb/acre-year***	***0.07 lb/acre-year***
Commericial/Industrial Land Use Type:							
Florida Gulf Coast University Monitoring Station	3.4 lb/acre-year	14 lb/acre-year	1.4 lb/acre-year	0.2 lb/acre-year	0.6 lb/acre-year	102 lb/acre-year	0.07 lb/acre-year
Galeana Street Monitoring Station	8 lb/acre-year	2.4 lb/acre-year	0.3 lb/acre-year	0.2 lb/acre-year	1.5 lb/acre-year	274 lb/acre-year	0.1 lb/acre-year
Average Loading for Commericial/Industrial Land Use Type :	***6 lb/acre-year***	***8 lb/acre-year***	***0.9 lb/acre-year***	***0.2 lb/acre-year***	***1.1 lb/acre-year***	***188 lb/acre-year***	***0.09 lb/acre-year***
Park Land Use Type (Golf Course):							
Eastwood Golf Course Monitoring Station	***20 lb/acre-year***	***64 lb/acre-year***	***3.7 lb/acre-year***	***0.1 lb/acre-year***	***1.2 lb/acre-year***	***246 lb/acre-year***	***0.5 lb/acre-year***
Wooded Upland Land Use Type:							
Koreshan State Park Monitoring Station	***0.5 lb/acre-year***	***5 lb/acre-year***	***0.5 lb/acre-year***	***0.01 lb/acre-year***	***0.3 lb/acre-year***	***30 lb/acre-year***	***0.01 lb/acre-year***
Wetland Land Use Type:							
Corkscrew Swamp Monitoring Station	***No Data lb/acre-year***	***No Data lb/acre-year***	***No Data lb/acre-year***	***No Data lb/acre-year***	***No Data lb/acre-year***	***No Data lb/acre-year***	***No Data lb/acre-year***
Transportation Land Use Type (Roadway):							
Corkscrew Road Monitoring Station	***2.2 lb/acre-year***	***5 lb/acre-year***	***0.6 lb/acre-year***	***0.6 lb/acre-year***	***0.7 lb/acre-year***	***75 lb/acre-year***	***0.04 lb/acre-year***
Agricultural Land Use Type (Citrus Grove):							
Brooks Tropical Monitoring Station	***23 lb/acre-year***	***110 lb/acre-year***	***6 lb/acre-year***	***1.4 lb/acre-year***	***6 lb/acre-year***	***594 lb/acre-year***	***0.4 lb/acre-year***

NOX= Nitrate + Nitrite
TKN= Total Keldahl Nitrogen
NH_3-N= Ammonia Nitrogen
OP= Orthophosphorus
TP= Total Phosphorus
TSS= Total Suspended Solids
Cu=Copper

Table 13B: **2004-2005 Pollutant Loading Estimate for Estero Bay Phase II**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**

Parameter Loading Rates	NOX	TKN	NH3 -N	OP	TP	TSS	Cu
Residential Land Use Type:							
Austin Street Station Monitoring Station	1.1 lb/acre-year	8 lb/acre-year	0.5 lb/acre-year	0.2 lb/acre-year	1.9 lb/acre-year	177 lb/acre-year	0.01 lb/acre-year
Mullock Creek Monitoring Station	3.1 lb/acre-year	25 lb/acre-year	4.3 lb/acre-year	0.2 lb/acre-year	0.8 lb/acre-year	103 lb/acre-year	0.02 lb/acre-year
Average Loading for Residential Land Use Type :	***2.1 lb/acre-year***	***17 lb/acre-year***	***2.4 lb/acre-year***	***0.2 lb/acre-year***	***1.4 lb/acre-year***	***140 lb/acre-year***	***0.015 lb/acre-year***
Commericial/Industrial Land Use Type:							
Florida Gulf Coast University Monitoring Station	0.8 lb/acre-year	3.1 lb/acre-year	0.3 lb/acre-year	0.02 lb/acre-year	0.4 lb/acre-year	12 lb/acre-year	0.03 lb/acre-year
Galeana Street Monitoring Station	0.5 lb/acre-year	9 lb/acre-year	0.7 lb/acre-year	0.05 lb/acre-year	0.8 lb/acre-year	79 lb/acre-year	0.02 lb/acre-year
Average Loading for Commericial/Industrial Land Use Type :	***0.7 lb/acre-year***	***6 lb/acre-year***	***0.5 lb/acre-year***	***0.04 lb/acre-year***	***0.6 lb/acre-year***	***46 lb/acre-year***	***0.03 lb/acre-year***
Park Land Use Type (Golf Course):							
Eastwood Golf Course Monitoring Station	***9 lb/acre-year***	***57 lb/acre-year***	***1.6 lb/acre-year***	***0.3 lb/acre-year***	***2 lb/acre-year***	***291 lb/acre-year***	***0.2 lb/acre-year***
Wooded Upland Land Use Type:							
Koreshan State Park Monitoring Station	***0.8 lb/acre-year***	***13 lb/acre-year***	***0.8 lb/acre-year***	***0.01 lb/acre-year***	***0.2 lb/acre-year***	***33 lb/acre-year***	***0.01 lb/acre-year***
Wetland Land Use Type:							
Corkscrew Swamp Monitoring Station	***0.3 lb/acre-year***	***30 lb/acre-year***	***0.2 lb/acre-year***	***0.03 lb/acre-year***	***0.6 lb/acre-year***	***13 lb/acre-year***	***0.01 lb/acre-year***
Transportation Land Use Type (Roadway):							
Corkscrew Road Monitoring Station	***2.1 lb/acre-year***	***2.7 lb/acre-year***	***0.9 lb/acre-year***	***0.06 lb/acre-year***	***0.3 lb/acre-year***	***139 lb/acre-year***	***0.08 lb/acre-year***
Agricultural Land Use Type (Citrus Grove):							
Brooks Tropical Monitoring Station	***8 lb/acre-year***	***76 lb/acre-year***	***7 lb/acre-year***	***0.5 lb/acre-year***	***2.2 lb/acre-year***	***203 lb/acre-year***	***0.1 lb/acre-year***

NOX= Nitrate + Nitrite
TKN= Total Keldahl Nitrogen
NH_3-N= Ammonia Nitrogen
OP= Orthophosphorate
TP= Total Phosphorus
TSS= Total Suspended Solids
Cu=Copper

Table 13C: **2005-2006 Pollutant Loading Estimate for Estero Bay Phase II**
Project: **Estero Bay Phase II**
PSI Project #: **552-1G002**

Parameter Loading Rates	NOX	TKN	NH3 -N	OP	TP	TSS	Cu
Residential Land Use Type:							
Austin Street Station Monitoring Station	2.0 lb/acre-year	6 lb/acre-year	0.6 lb/acre-year	0.4 lb/acre-year	1.0 lb/acre-year	252 lb/acre-year	0.02 lb/acre-year
Mullock Creek Monitoring Station	0.9 lb/acre-year	4.4 lb/acre-year	1.3 lb/acre-year	0.1 lb/acre-year	0.2 lb/acre-year	17 lb/acre-year	0.01 lb/acre-year
Average Loading for Residential Land Use Type :	***1.5 lb/acre-year***	***5 lb/acre-year***	***1.0 lb/acre-year***	***0.3 lb/acre-year***	***0.6 lb/acre-year***	***135 lb/acre-year***	***0.015 lb/acre-year***
Commericial/Industrial Land Use Type:							
Florida Gulf Coast University Monitoring Station	1.4 lb/acre-year	5 lb/acre-year	0.2 lb/acre-year	0.4 lb/acre-year	0.6 lb/acre-year	16 lb/acre-year	0.01 lb/acre-year
Galeana Street Monitoring Station	1.6 lb/acre-year	17 lb/acre-year	1.6 lb/acre-year	0.2 lb/acre-year	1.0 lb/acre-year	39 lb/acre-year	0.04 lb/acre-year
Average Loading for Commericial/Industrial Land Use Type :	***1.5 lb/acre-year***	***11 lb/acre-year***	***0.9 lb/acre-year***	***0.3 lb/acre-year***	***0.8 lb/acre-year***	***28 lb/acre-year***	***0.03 lb/acre-year***
Park Land Use Type (Golf Course):							
Eastwood Golf Course Monitoring Station	***2.7 lb/acre-year***	***23 lb/acre-year***	***1.4 lb/acre-year***	***0.1 lb/acre-year***	***0.8 lb/acre-year***	***169 lb/acre-year***	***0.09 lb/acre-year***
Wooded Upland Land Use Type:							
Koreshan State Park Monitoring Station	***0.4 lb/acre-year***	***7 lb/acre-year***	***0.9 lb/acre-year***	***0.06 lb/acre-year***	***0.2 lb/acre-year***	***7 lb/acre-year***	***0.01 lb/acre-year***
Wetland Land Use Type:							
Corkscrew Swamp Monitoring Station	***1.4 lb/acre-year***	***8 lb/acre-year***	***0.1 lb/acre-year***	***0.02 lb/acre-year***	***0.16 lb/acre-year***	***35 lb/acre-year***	***0.02 lb/acre-year***
Transportation Land Use Type (Roadway):							
Corkscrew Road Monitoring Station	***1.5 lb/acre-year***	***2.4 lb/acre-year***	***0.6 lb/acre-year***	***0.1 lb/acre-year***	***0.3 lb/acre-year***	***93 lb/acre-year***	***0.05 lb/acre-year***
Agricultural Land Use Type (Citrus Grove):							
Brooks Tropical Monitoring Station	***9 lb/acre-year***	***66 lb/acre-year***	***3.0 lb/acre-year***	***1.0 lb/acre-year***	***2.2 lb/acre-year***	***357 lb/acre-year***	***0.09 lb/acre-year***

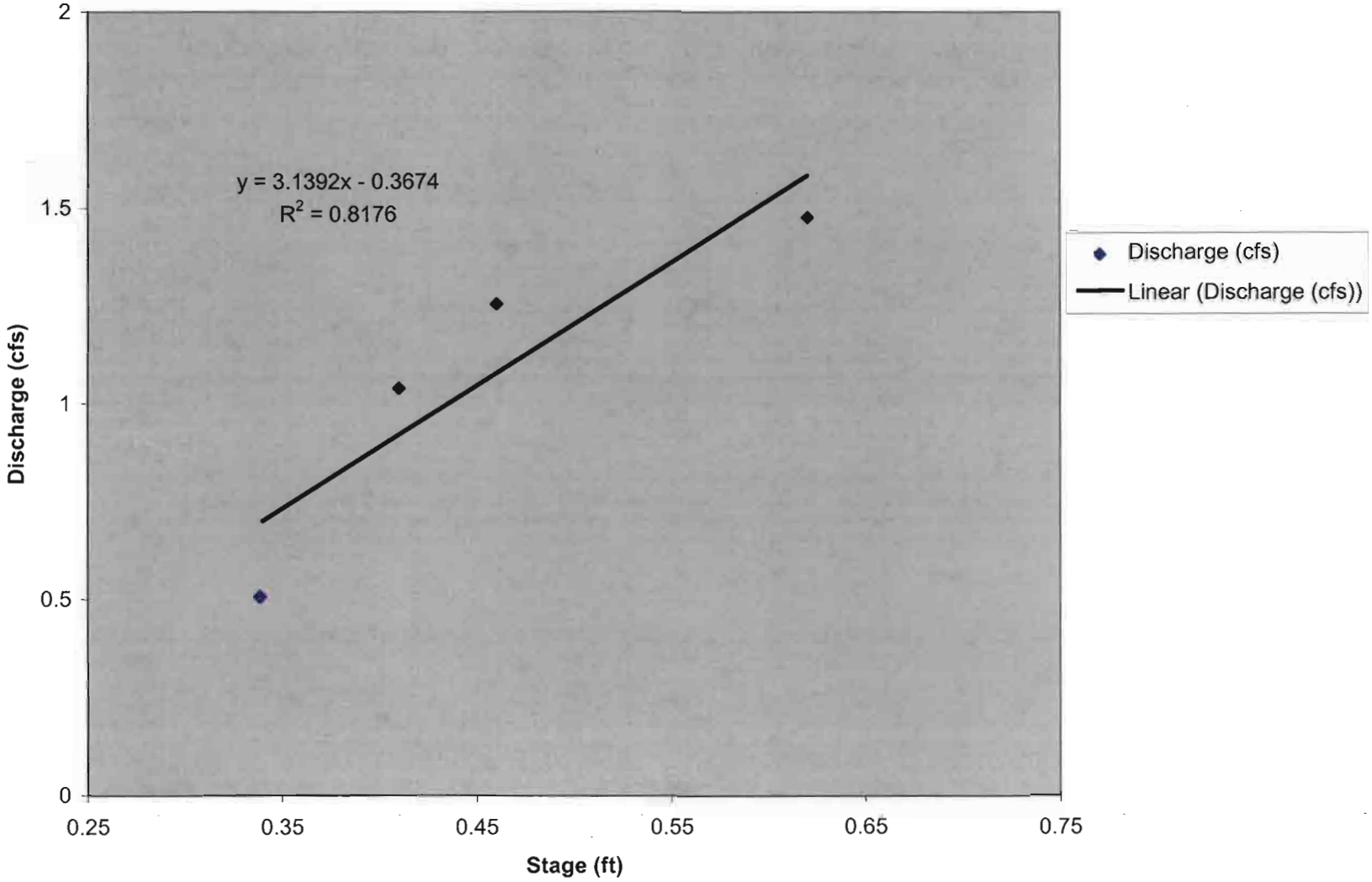
NOX= Nitrate + Nitrite
TKN= Total Keldahl Nitrogen
NH_3-N= Ammonia Nitrogen
OP= Orthophosphorus
TP= Total Phosphorus
TSS= Total Suspended Solids
Cu=Copper

APPENDIX A

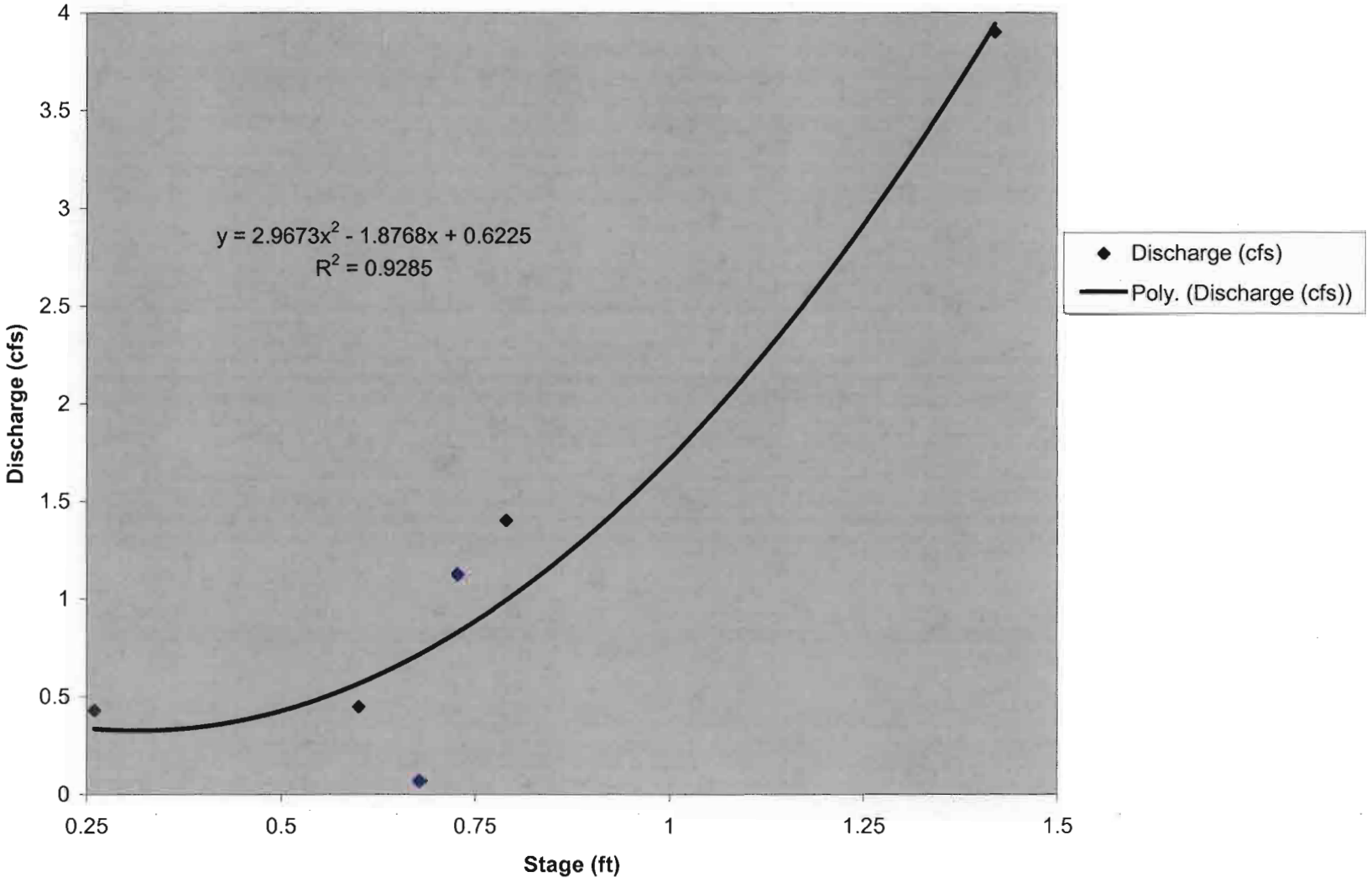
GRAPHS

A.1 AUSTIN STREET GRAPHS

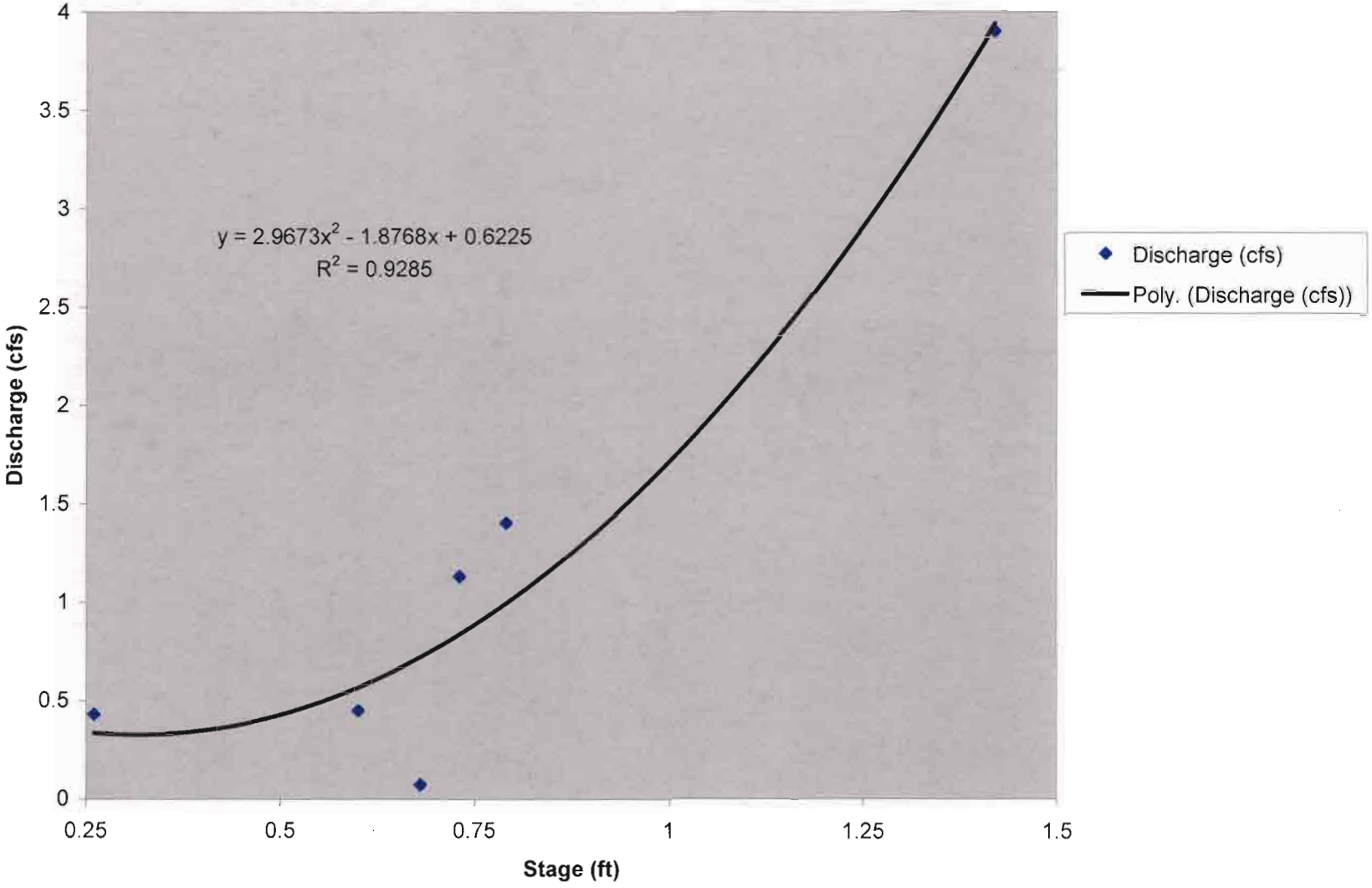
Graph 1.1A: Austin Street Monitoring Station Discharge vs Stage Calibration Curve
9/1/03-11/30/03



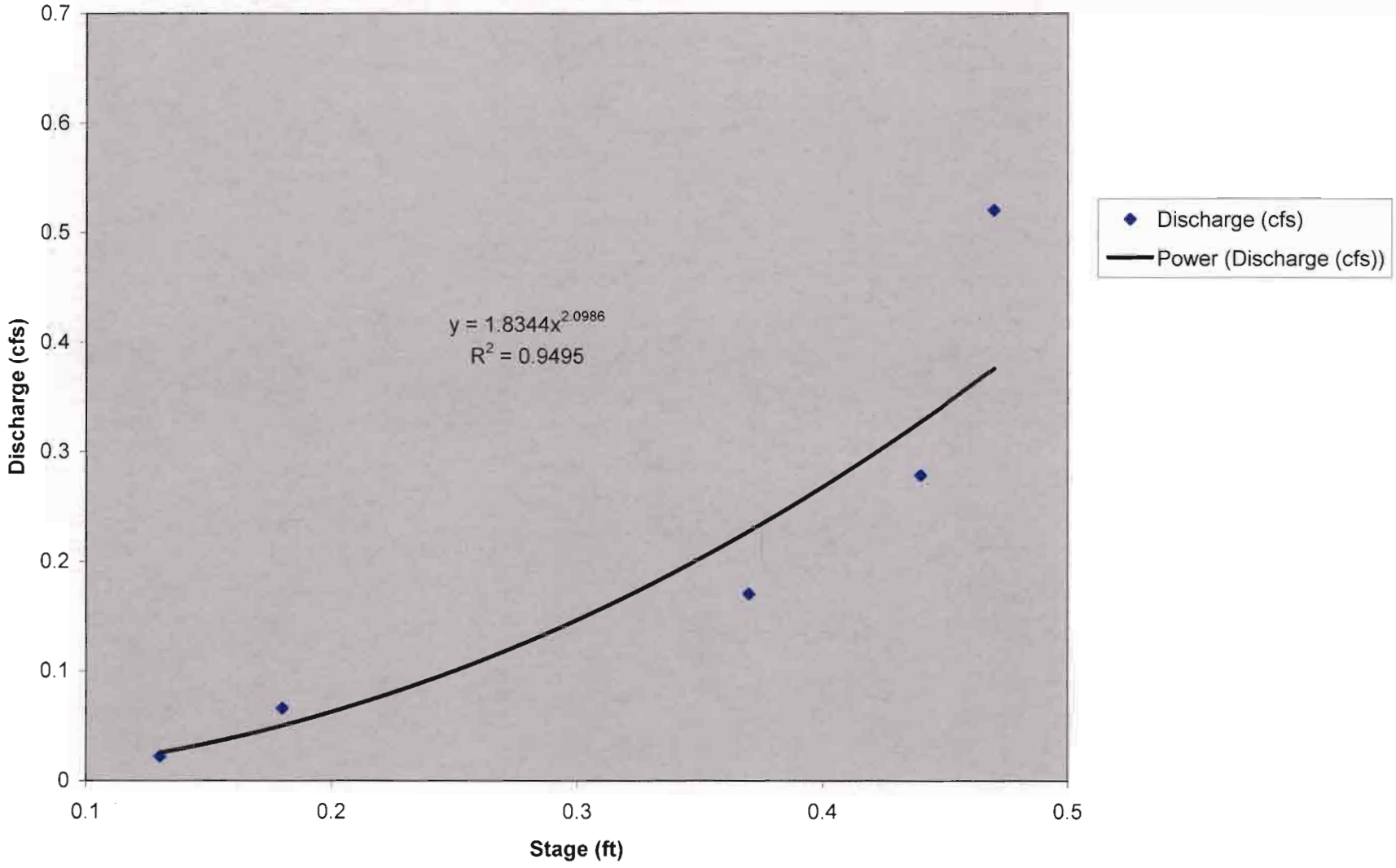
Graph 1.2A: Austin Street Monitoring Station Discharge vs Stage Calibration Curve
12/1/03-2/29/04



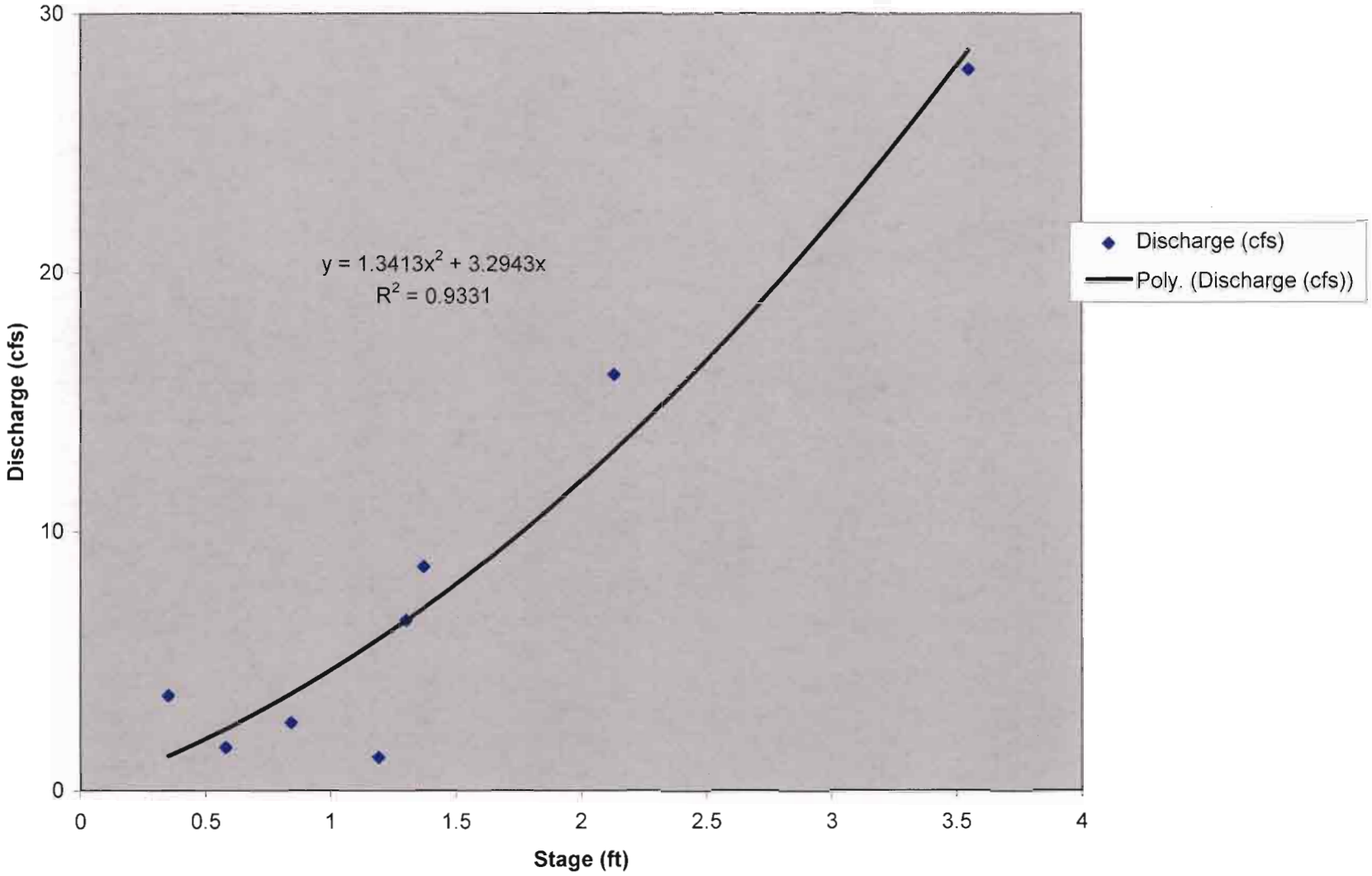
Graph 1.2A: Austin Street Monitoring Station Discharge vs Stage Calibration Curve
12/1/03-2/29/04



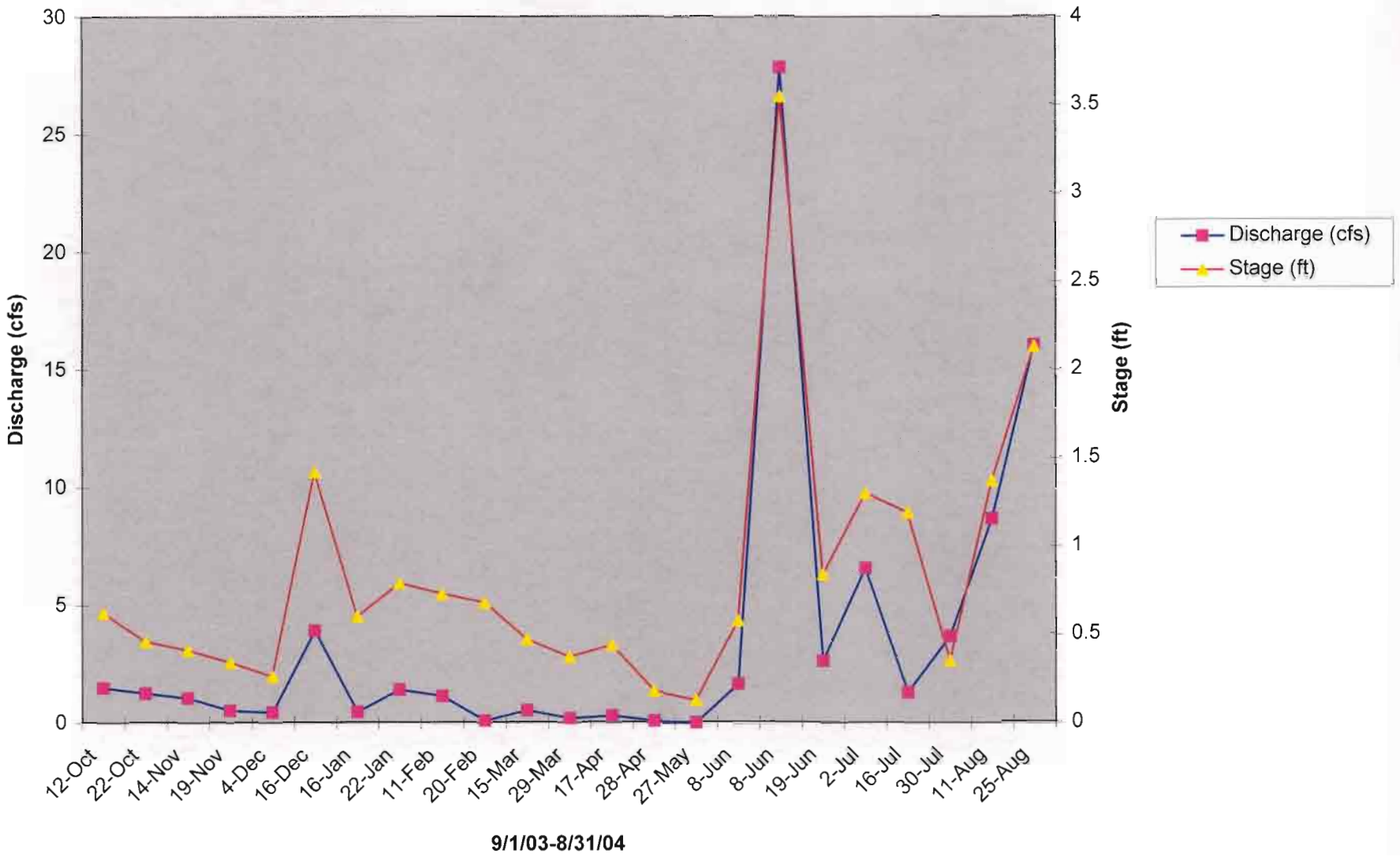
Graph 1.3A: Austin Street Monitoring Station Discharge vs Stage Calibration Curve
3/1/04-5/31/04



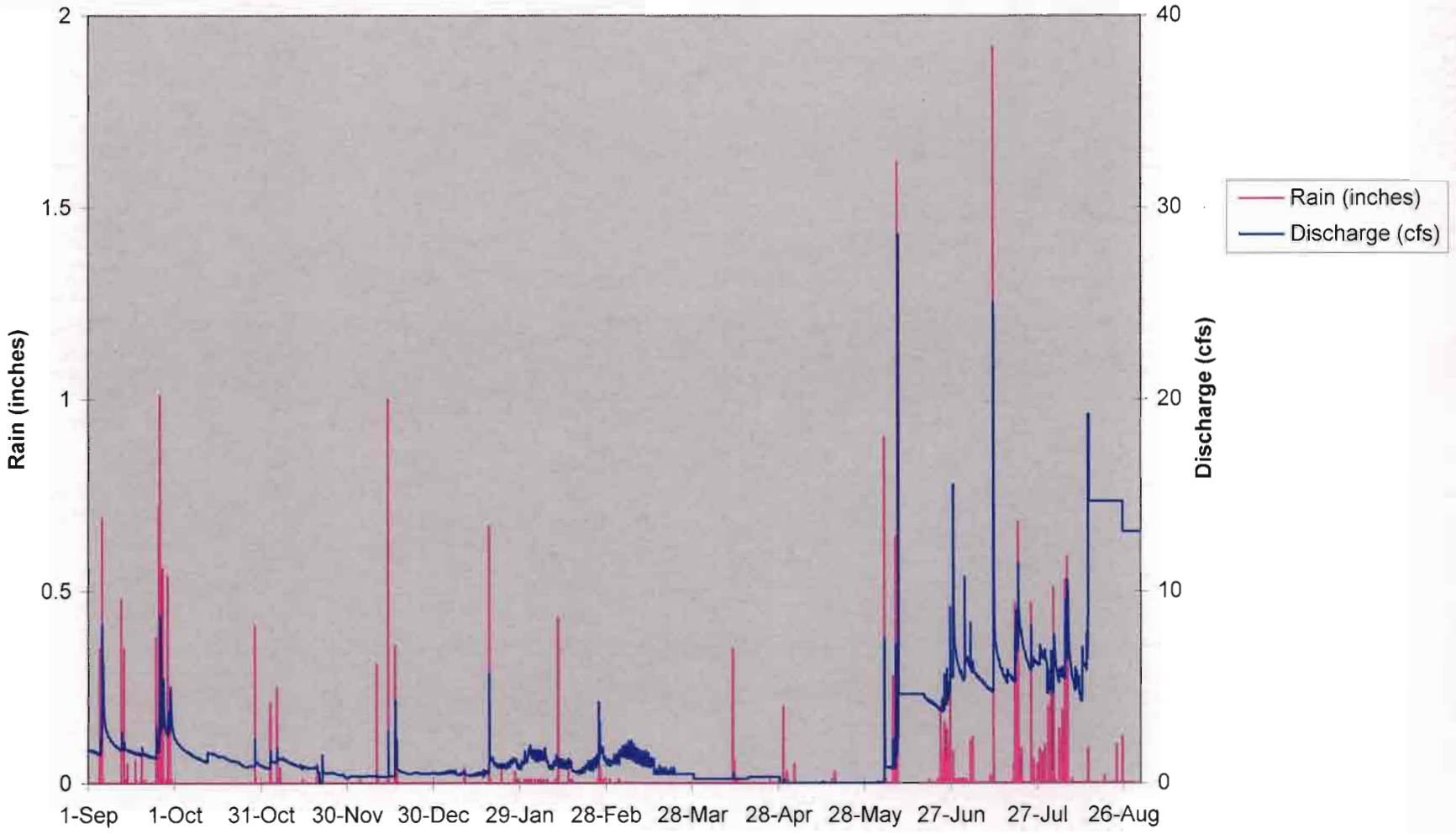
Graph 1.4A: Austin Street Monitoring Station Discharge vs Stage Calibration Curve
6/1/04-8/31/04



Graph 1.5A: Austin Street Monitoring Station ADV Discharge/Stage vs Time

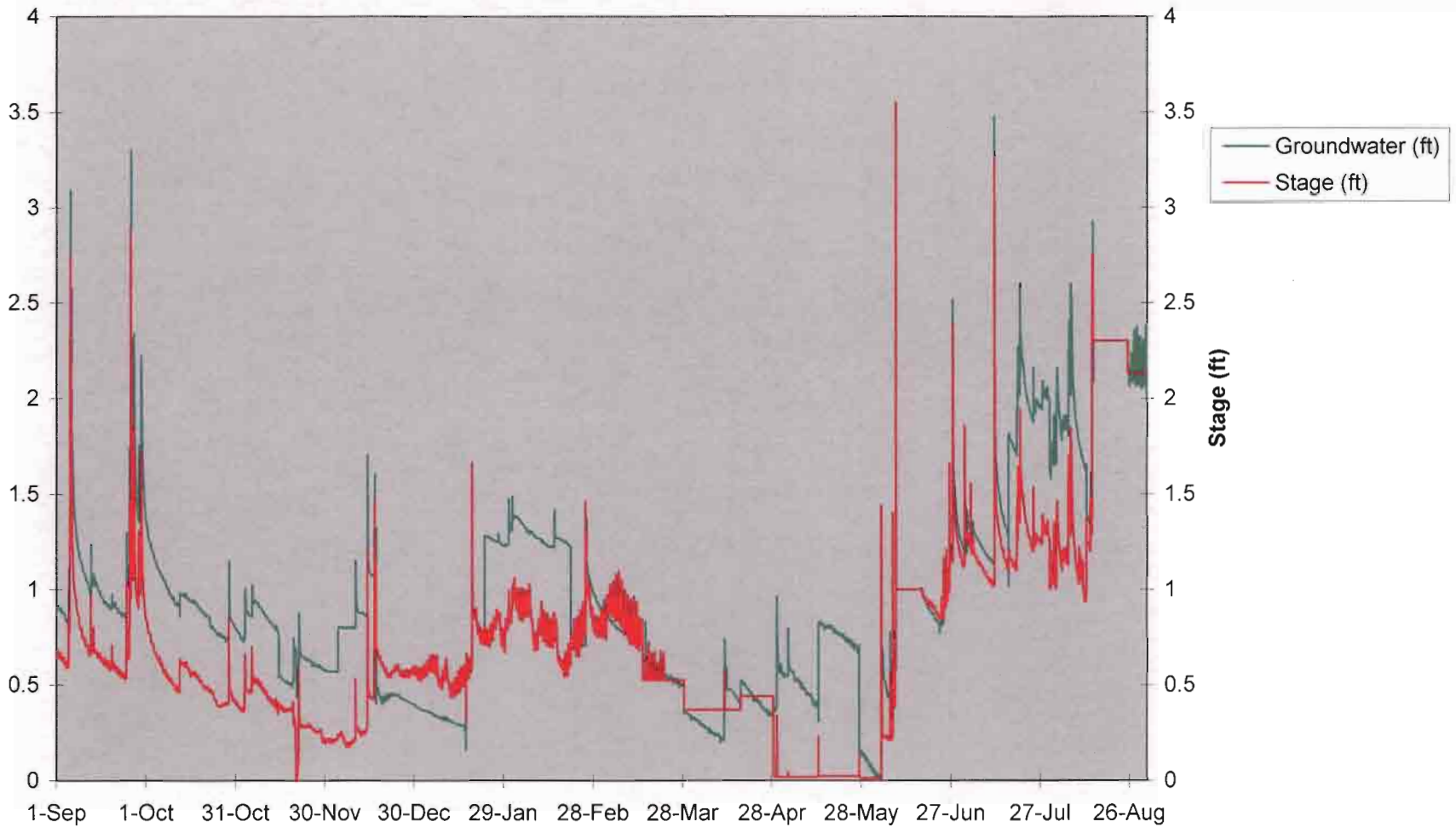


Graph 1.6A: Austin Street Monitoring Station Rain\ Discharge vs Time



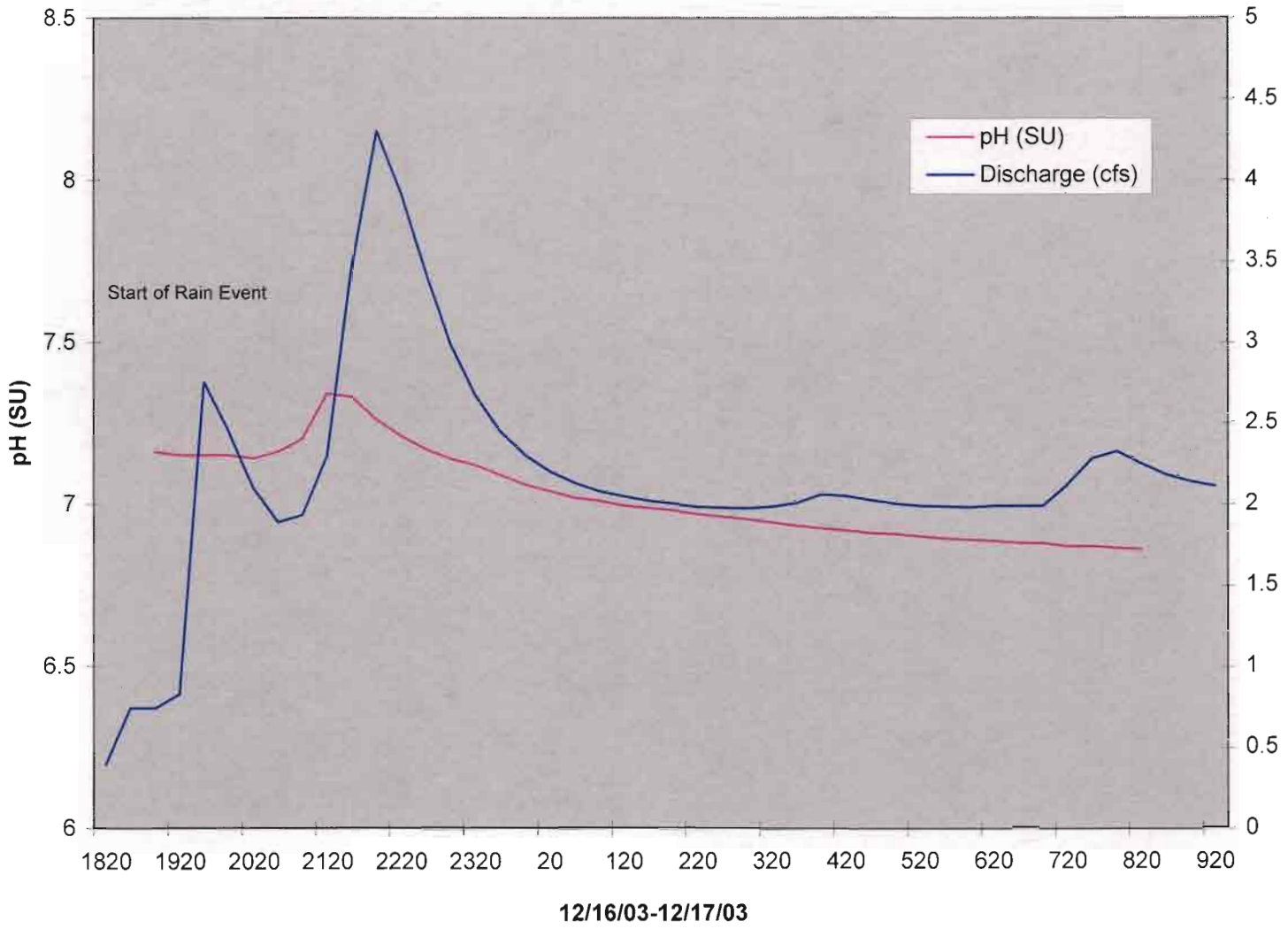
9/1/03-8/31/04

Graph 1.7A: Austin Street Monitoring Station Stage\Groundwater Elevation vs Time

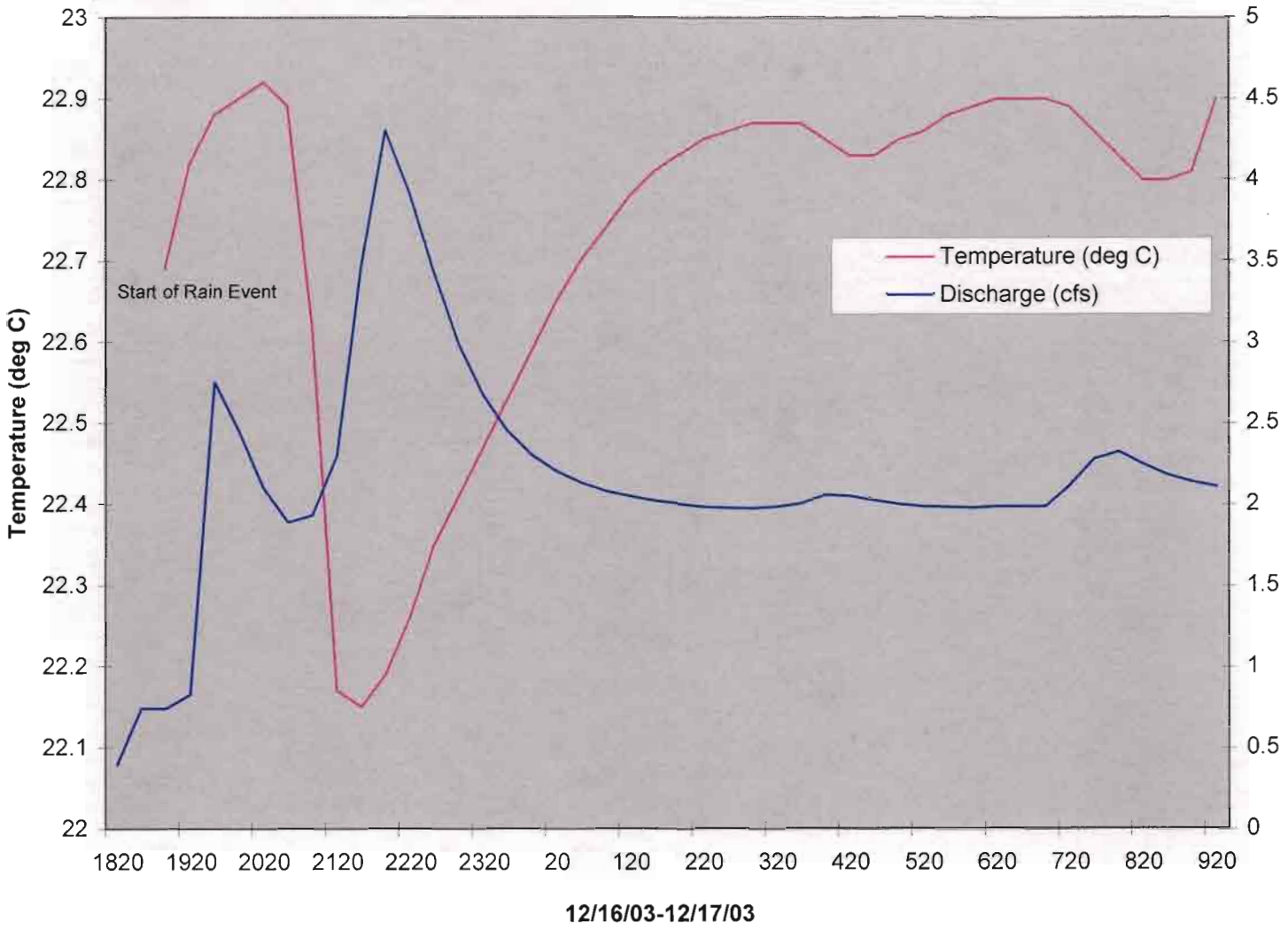


9/1/03-

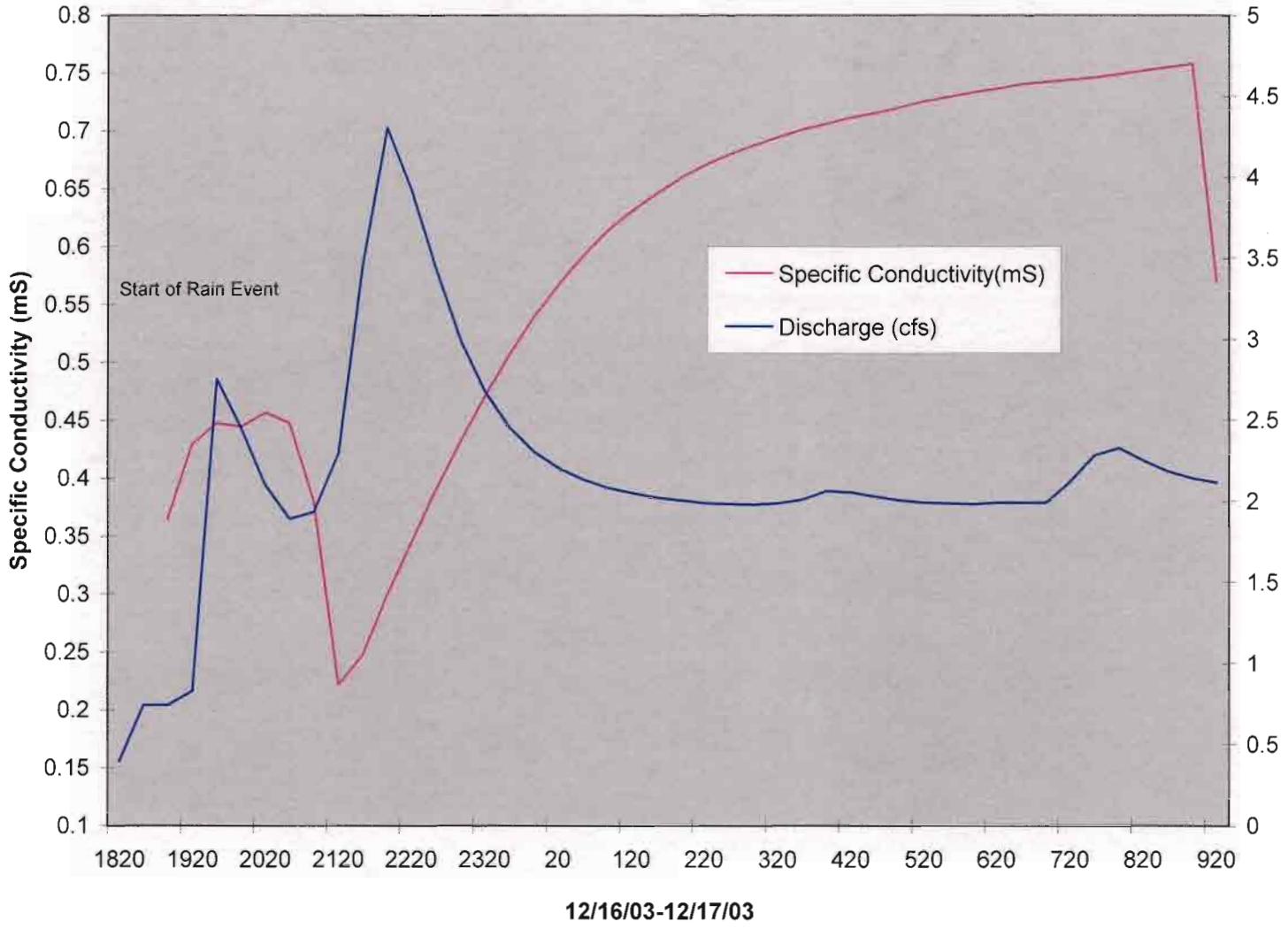
Graph 1.8A: Austin Street Monitoring Station pH\ Discharge vs Time



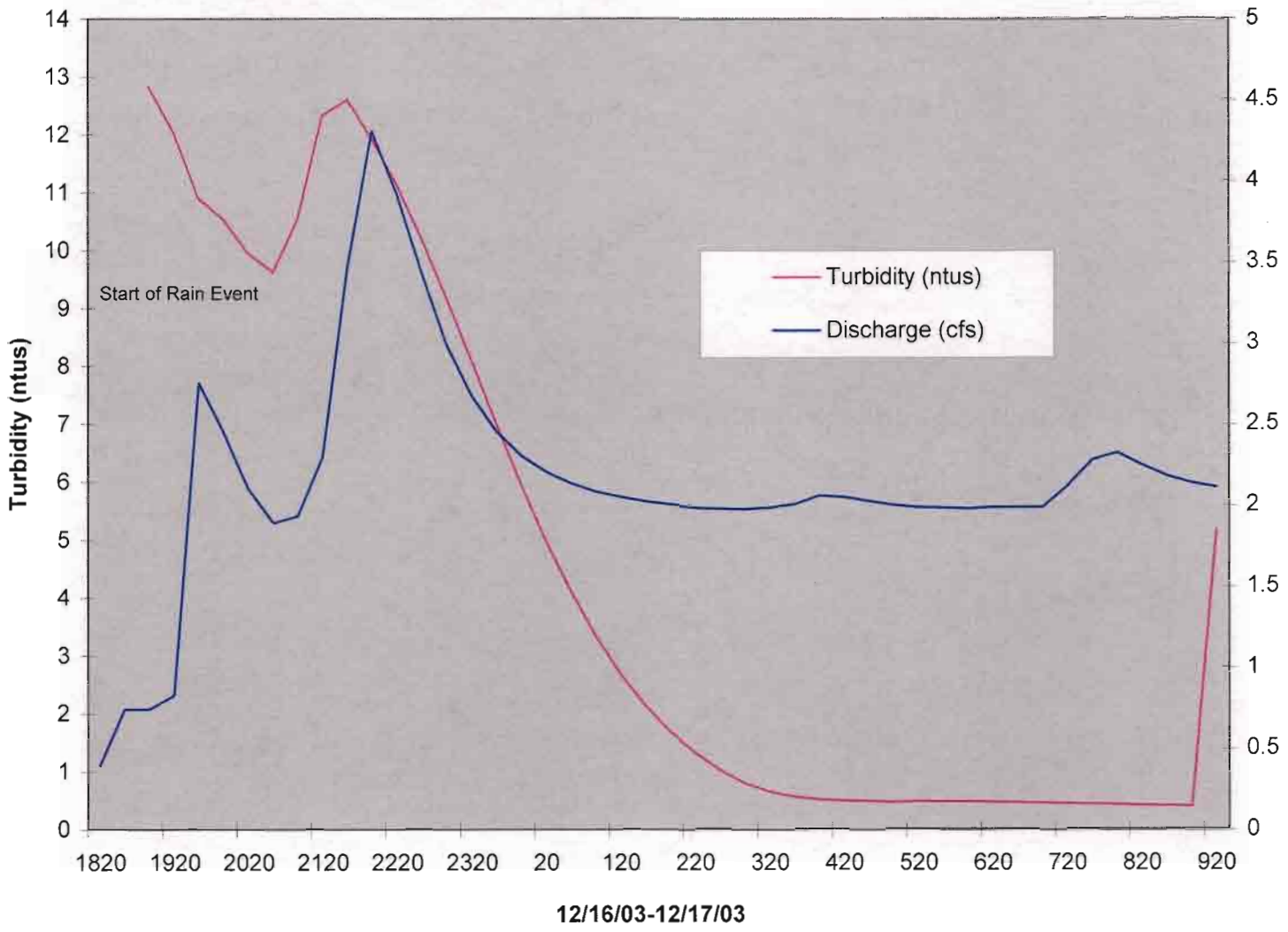
Graph 1.9A: Austin Street Monitoring Station Temperature\ Discharge vs Time



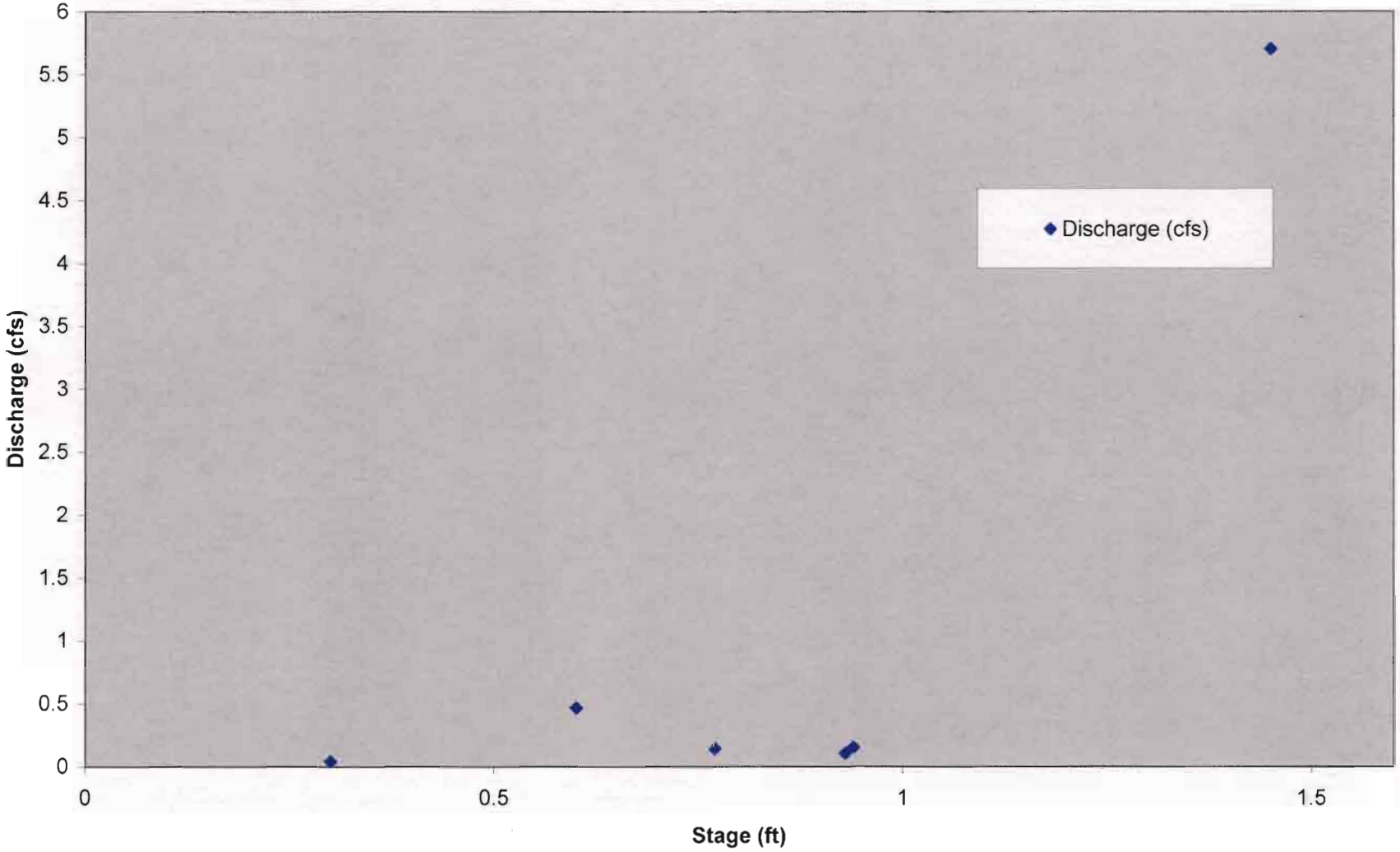
Graph 1.10A: Austin Street Monitoring Station Conductivity\ Discharge vs Time



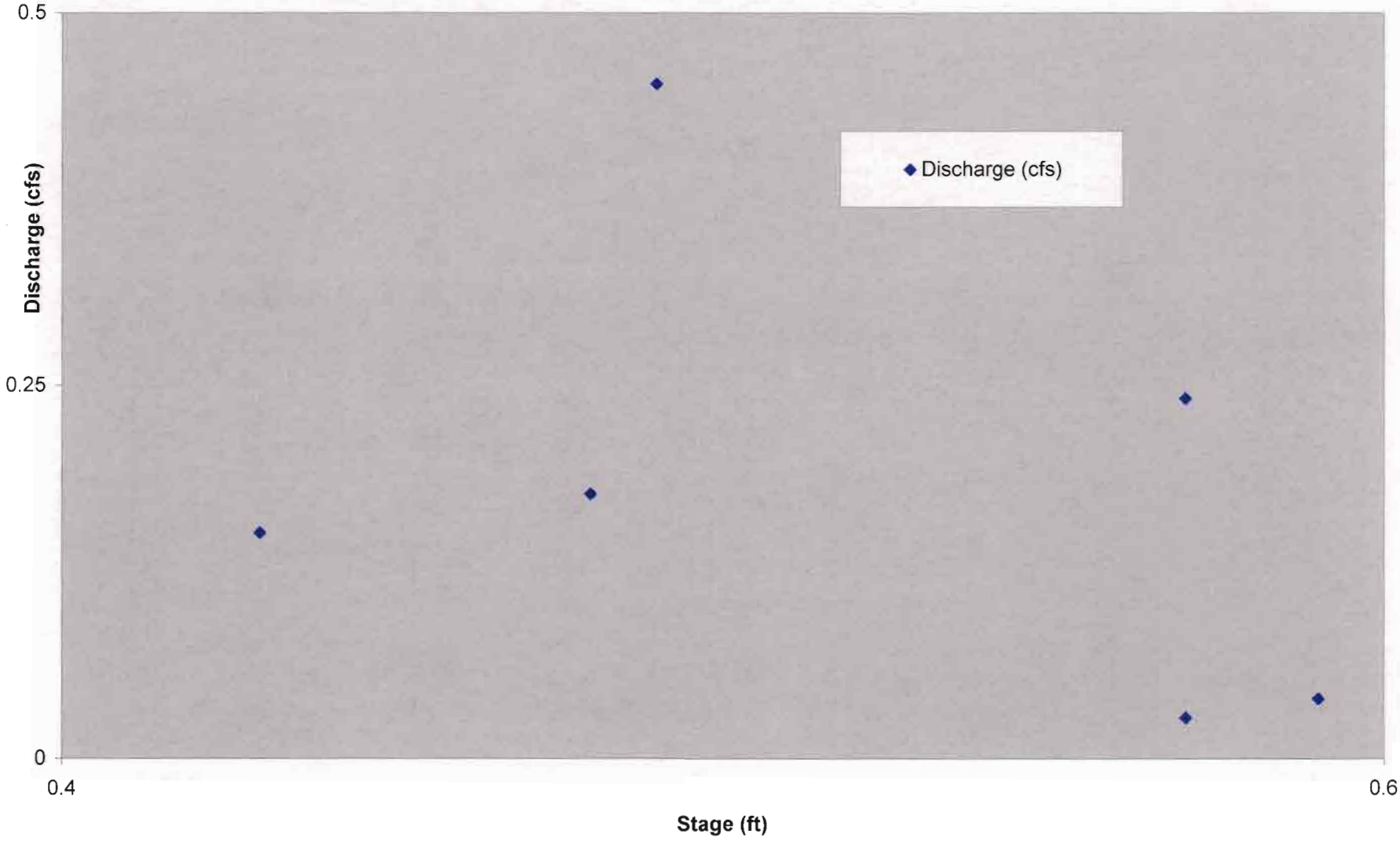
Graph 1.11A: Austin Street Monitoring Station Turbidity\ Discharge vs Time



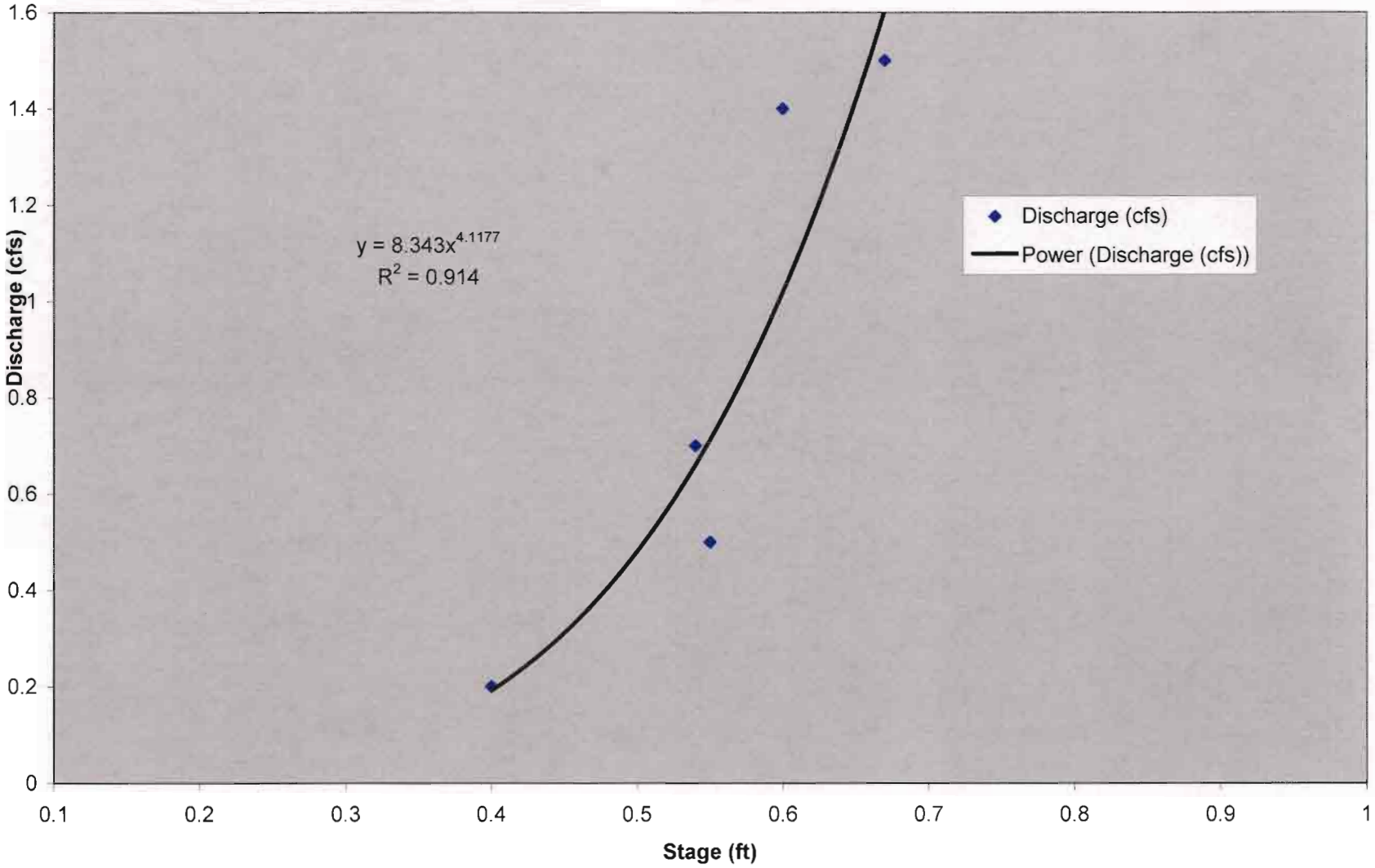
Graph 1.1B: Austin Street Monitoring Station Discharge vs Stage Calibration Curve
9/1/04-11/30/04



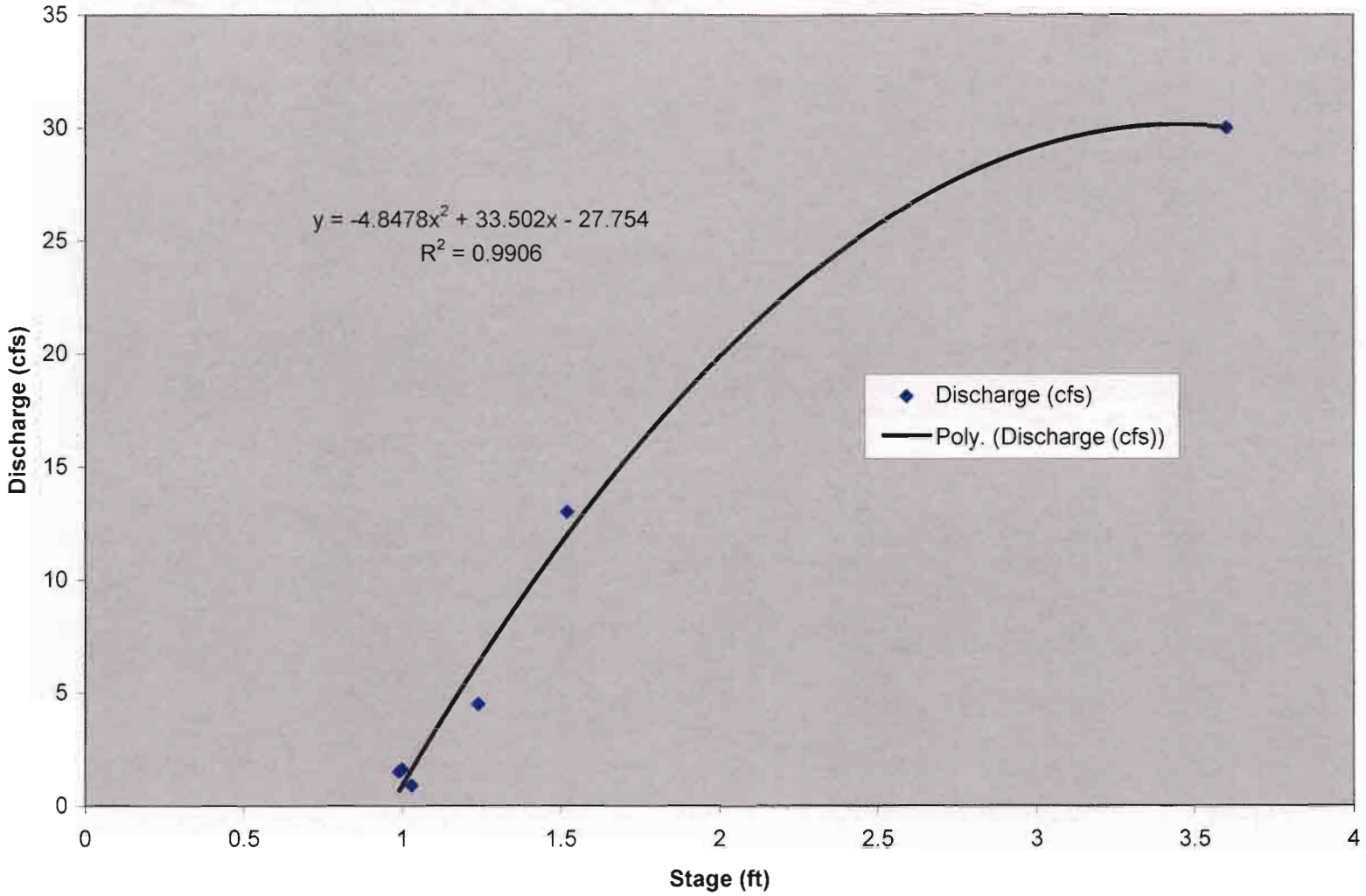
Graph 1.2B: Austin Street Monitoring Station Discharge vs Stage Calibration Curve
12/1/04-2/28/05



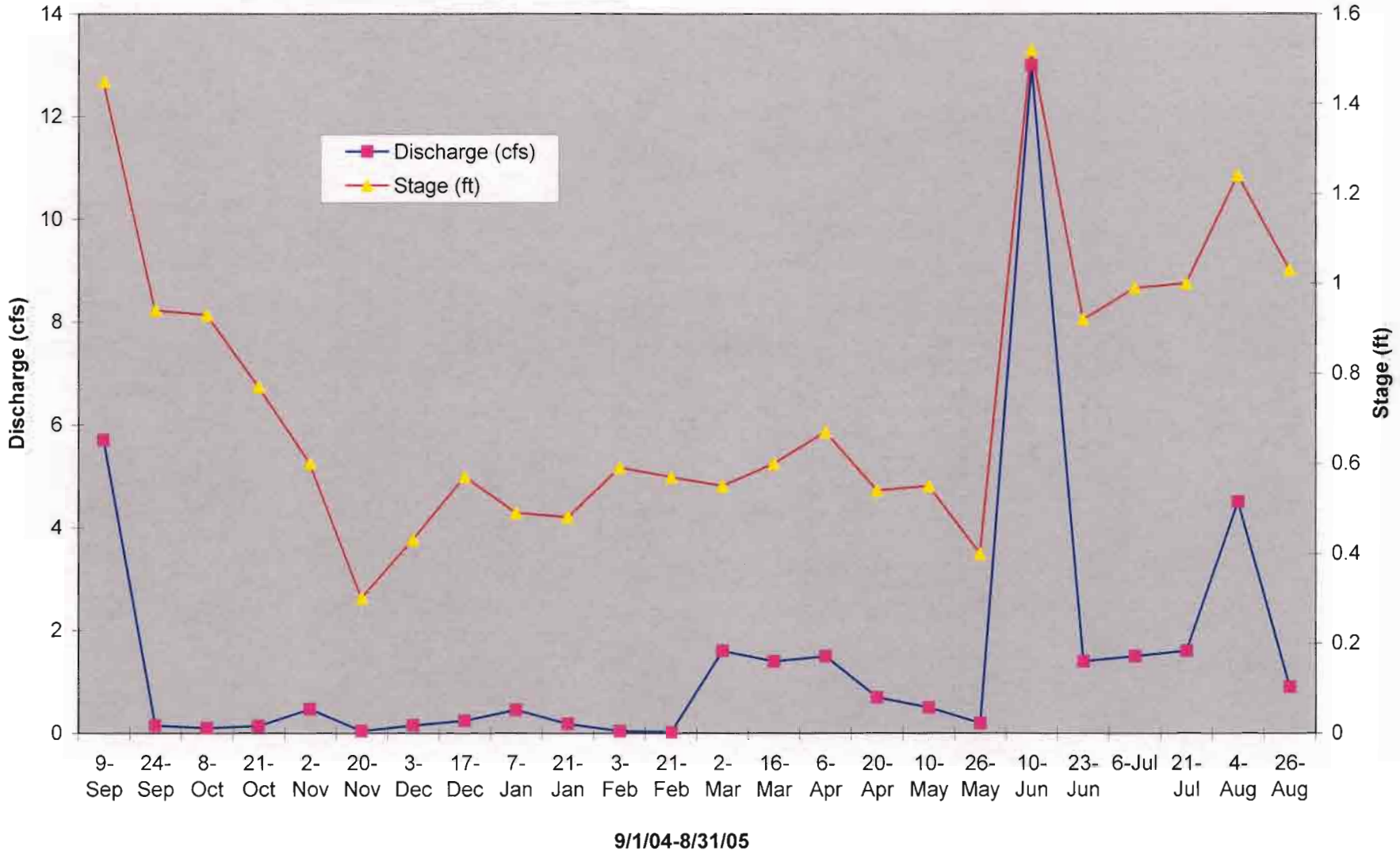
Graph 1.3B: Austin Street Monitoring Station Discharge vs Stage Calibration Curve- Spring/Summer 2005 Stage 0.40- 0.67 Ft.



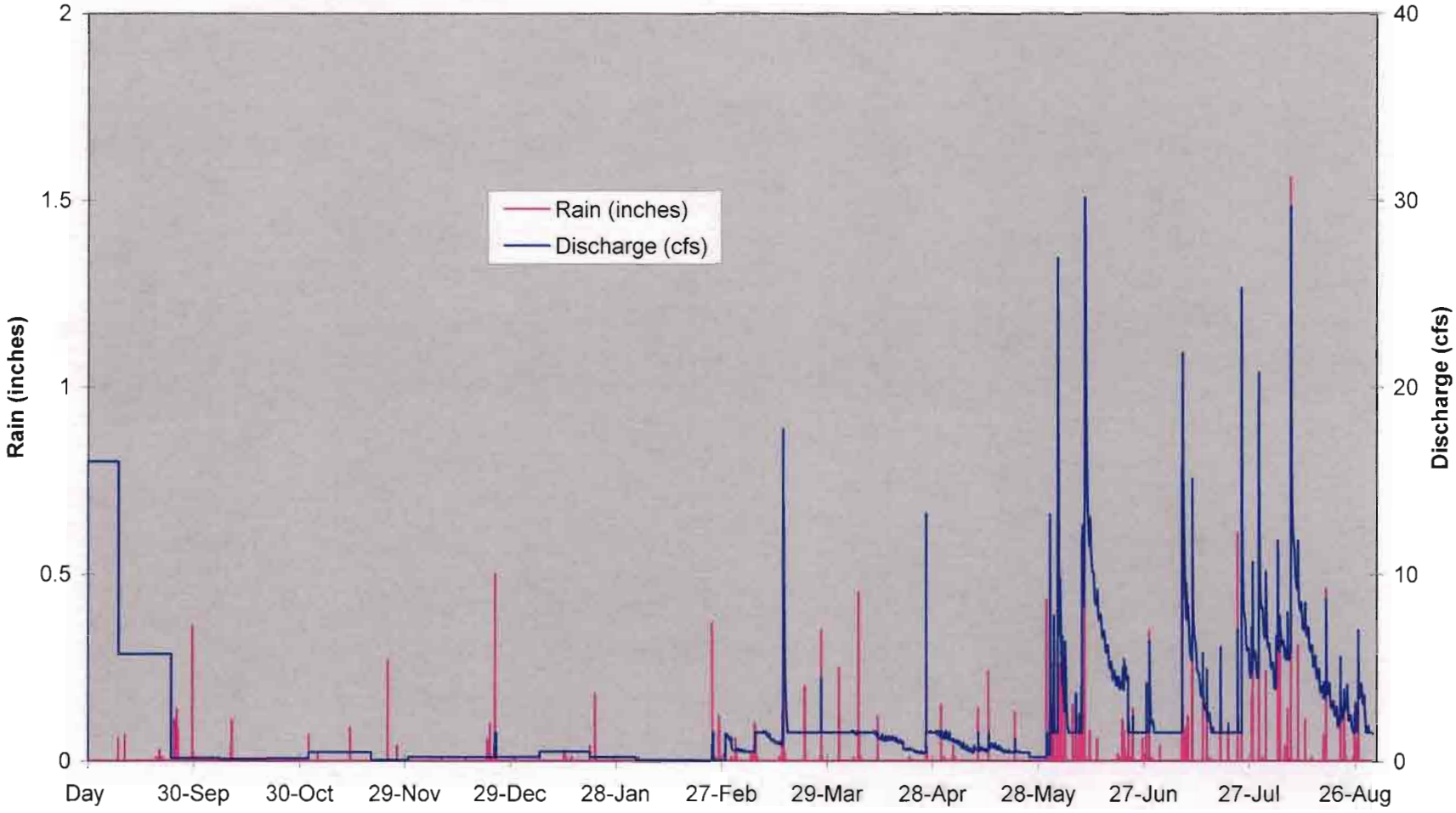
Graph 1.4B: Austin Street Monitoring Station Discharge vs Stage Calibration Curve
Spring/Summer 2005 Stage >1.03 Ft and <= 3.60 Ft



Graph 1.5B: Austin Street Monitoring Station ADV Discharge/Stage vs Time

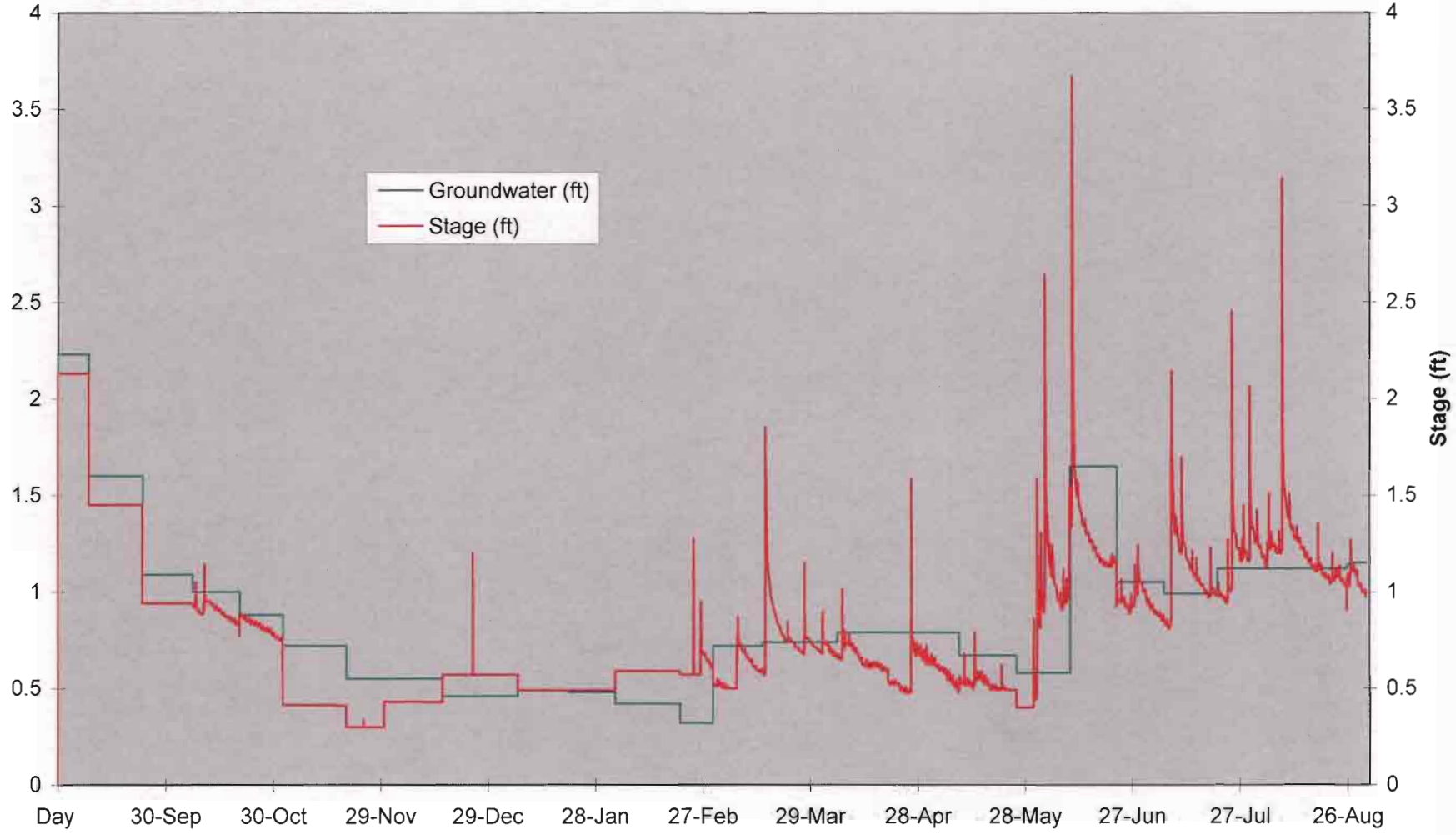


Graph 1.6B: Austin Street Monitoring Station Rain\ Discharge vs Time



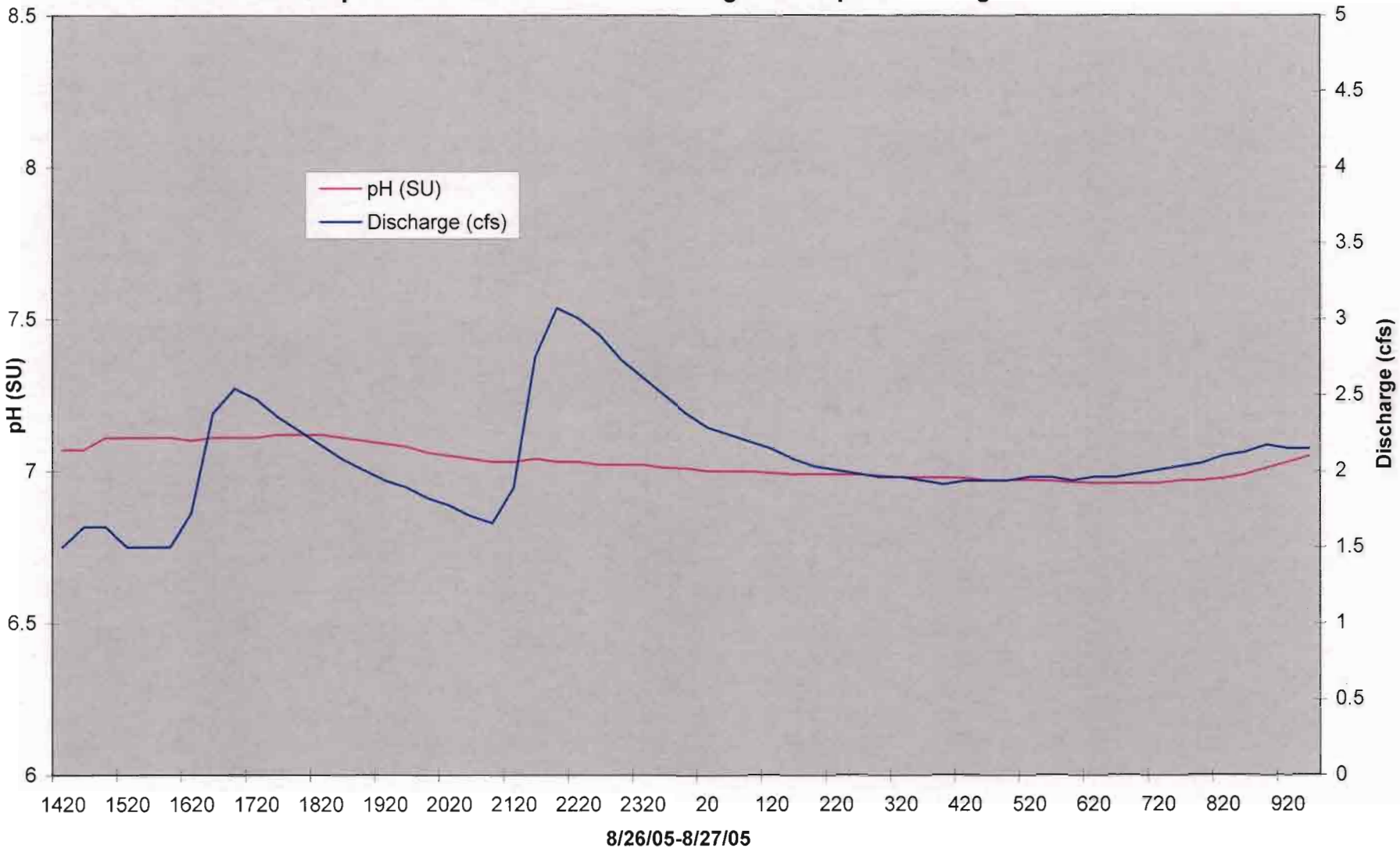
9/1/04-8/31/05

Graph 1.7B: Austin Street Monitoring Station Stage\Groundwater Elevation vs Time

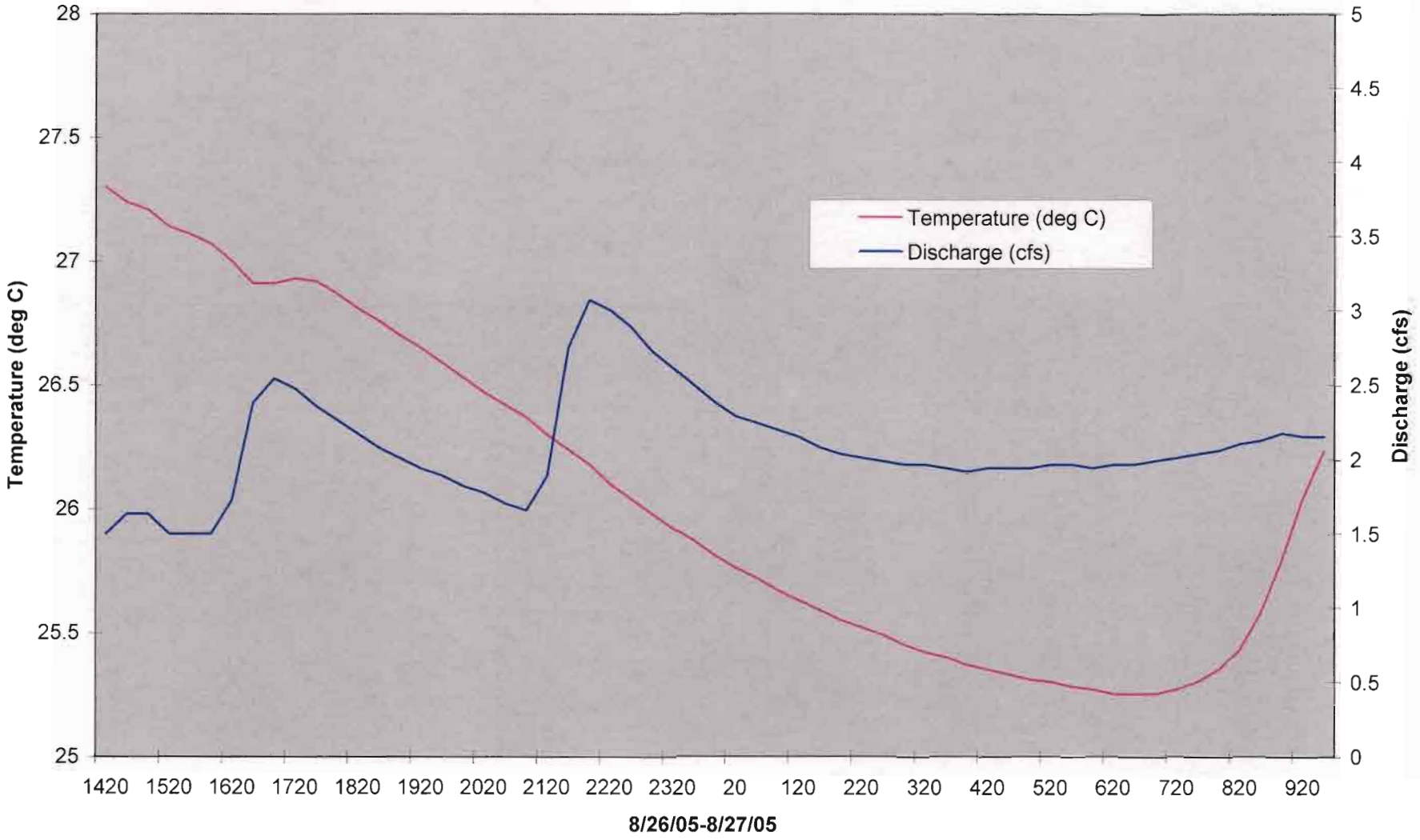


9/1/04-

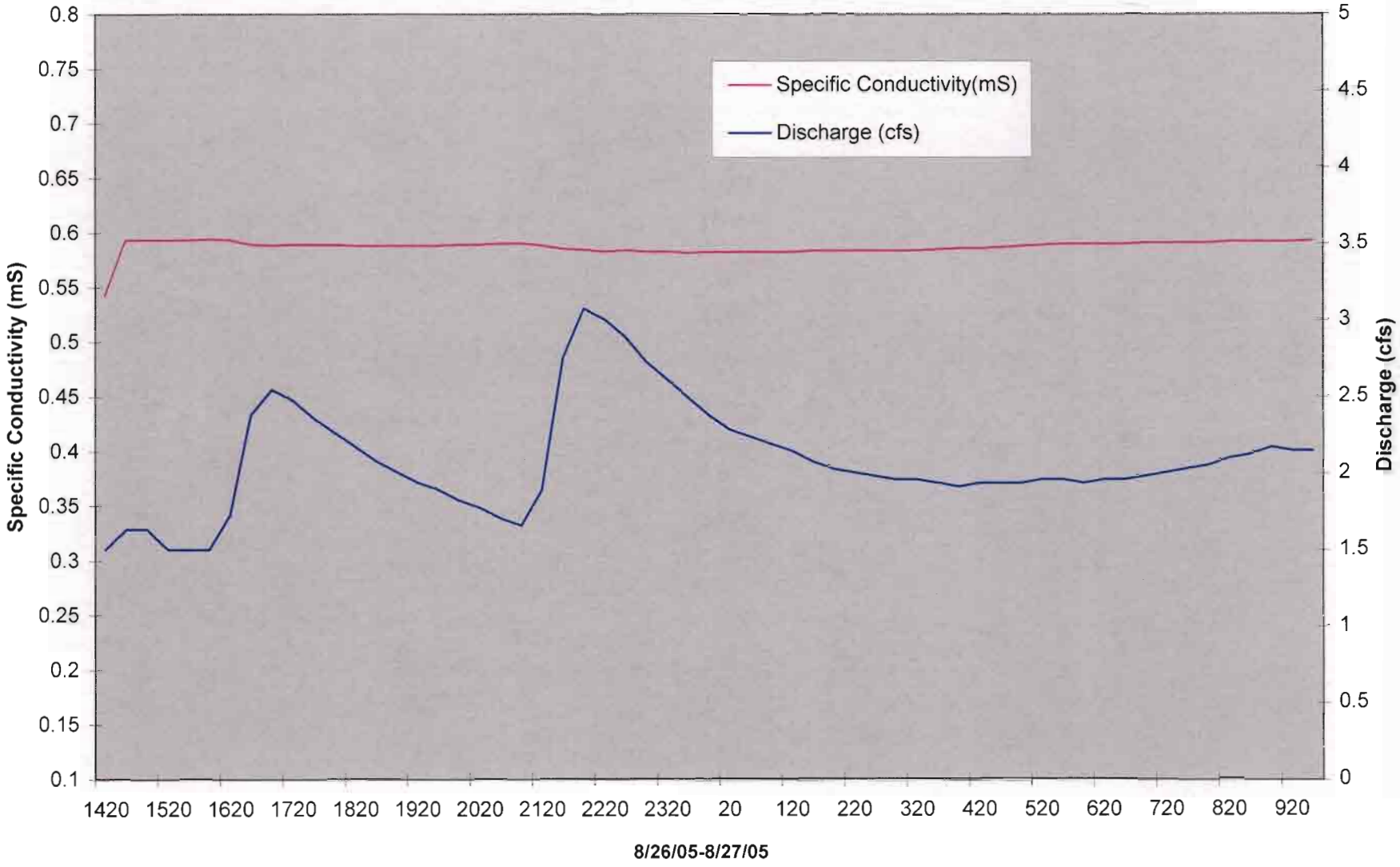
Graph 1.8B: Austin Street Monitoring Station pH\ Discharge vs Time



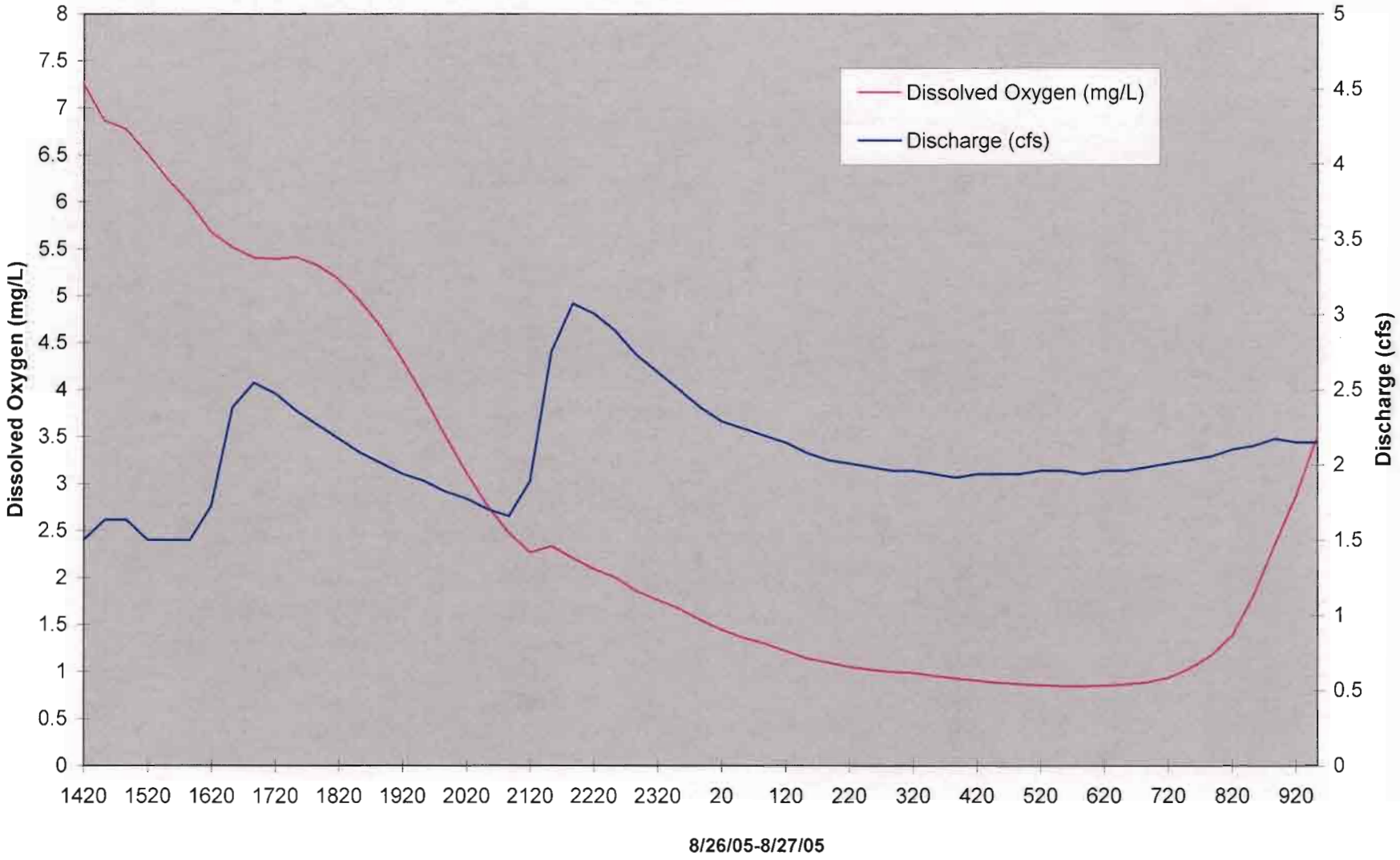
Graph 1.9B: Austin Street Monitoring Station Temperature\ Discharge vs Time



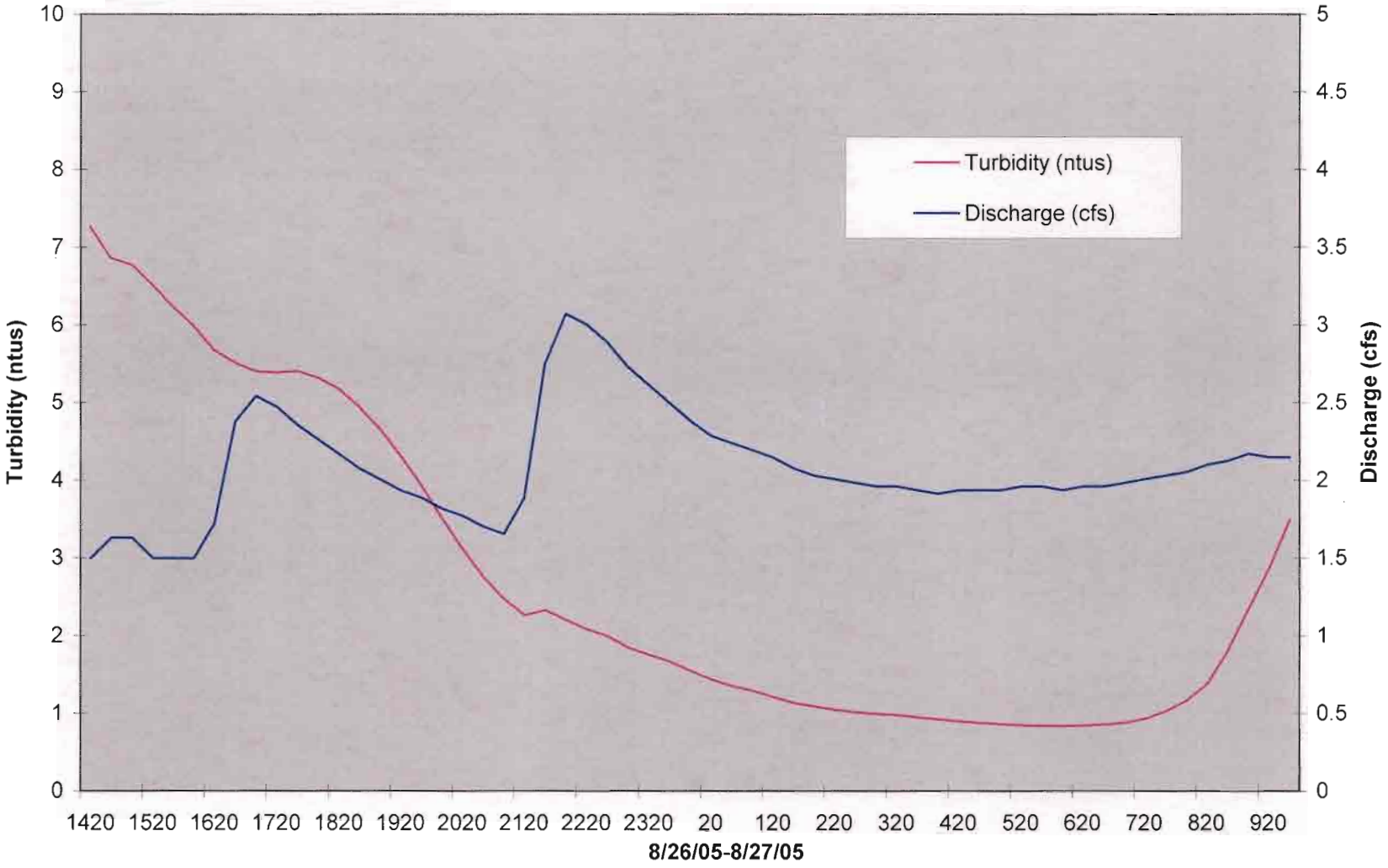
Graph 1.10B: Austin Street Monitoring Station Conductivity\ Discharge vs Time



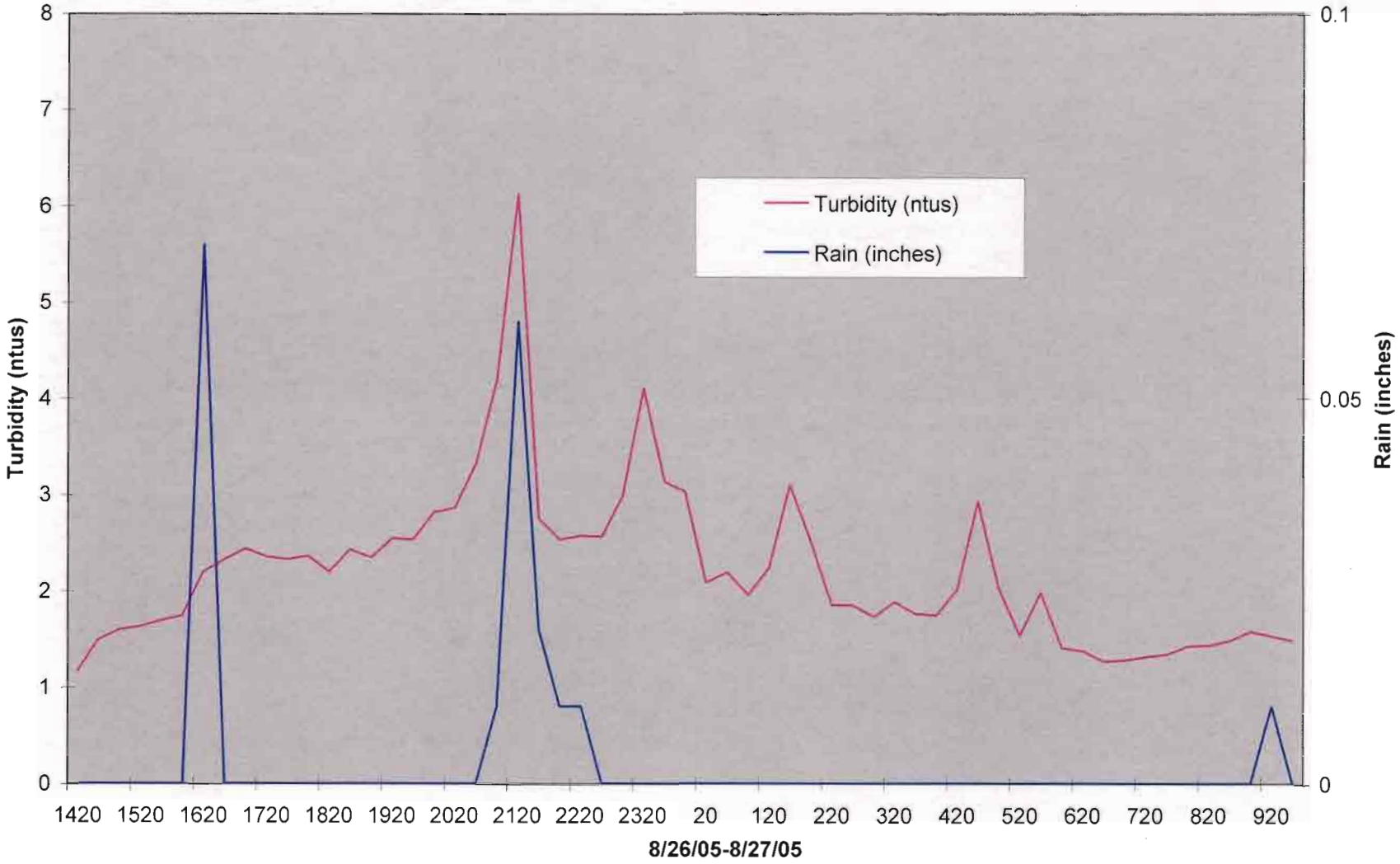
Graph 1.11B: Austin Street Monitoring Station Dissolved Oxygen\ Discharge vs Time



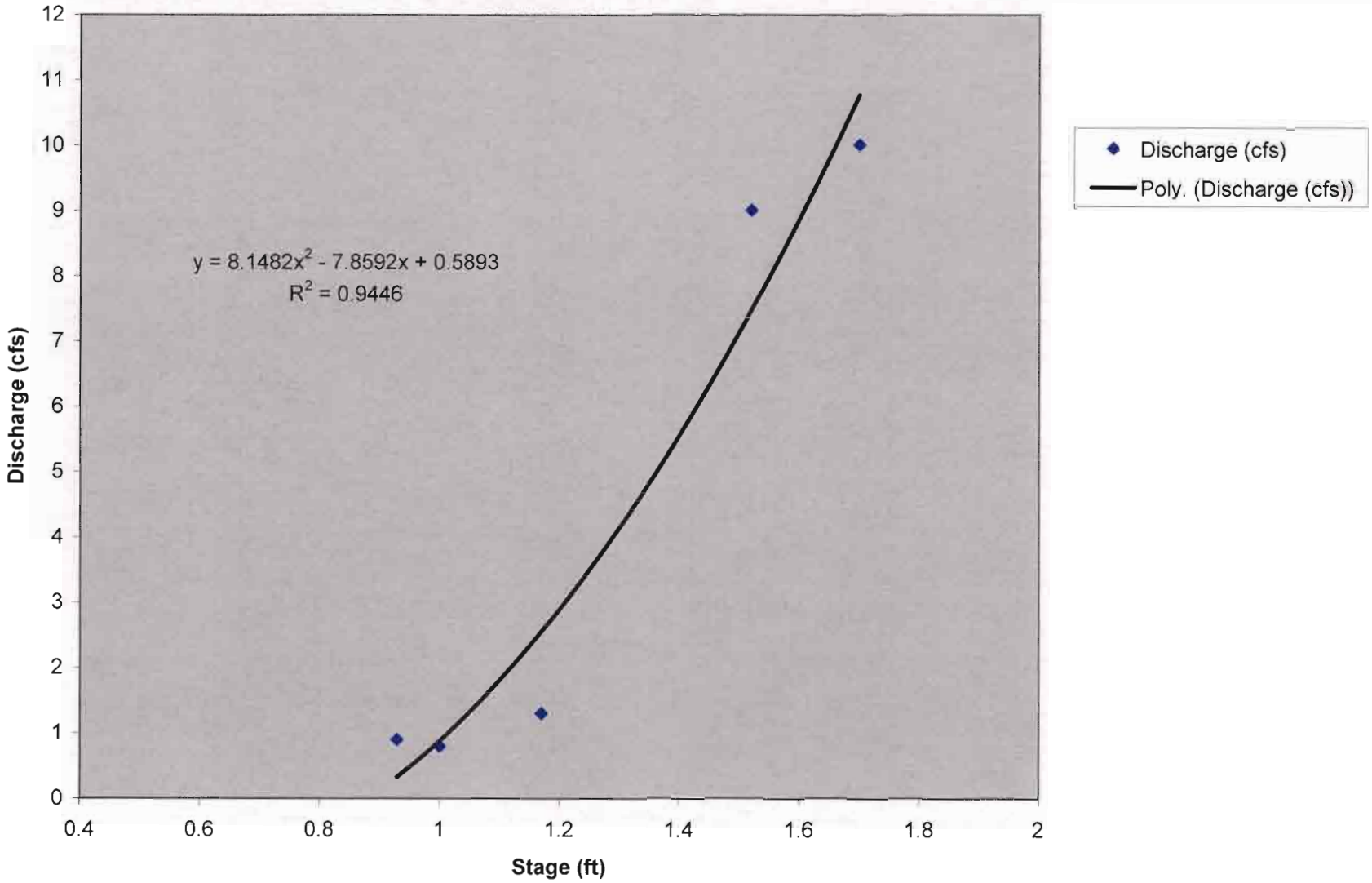
Graph 1.12B: Austin Street Monitoring Station Turbidity\ Discharge vs Time



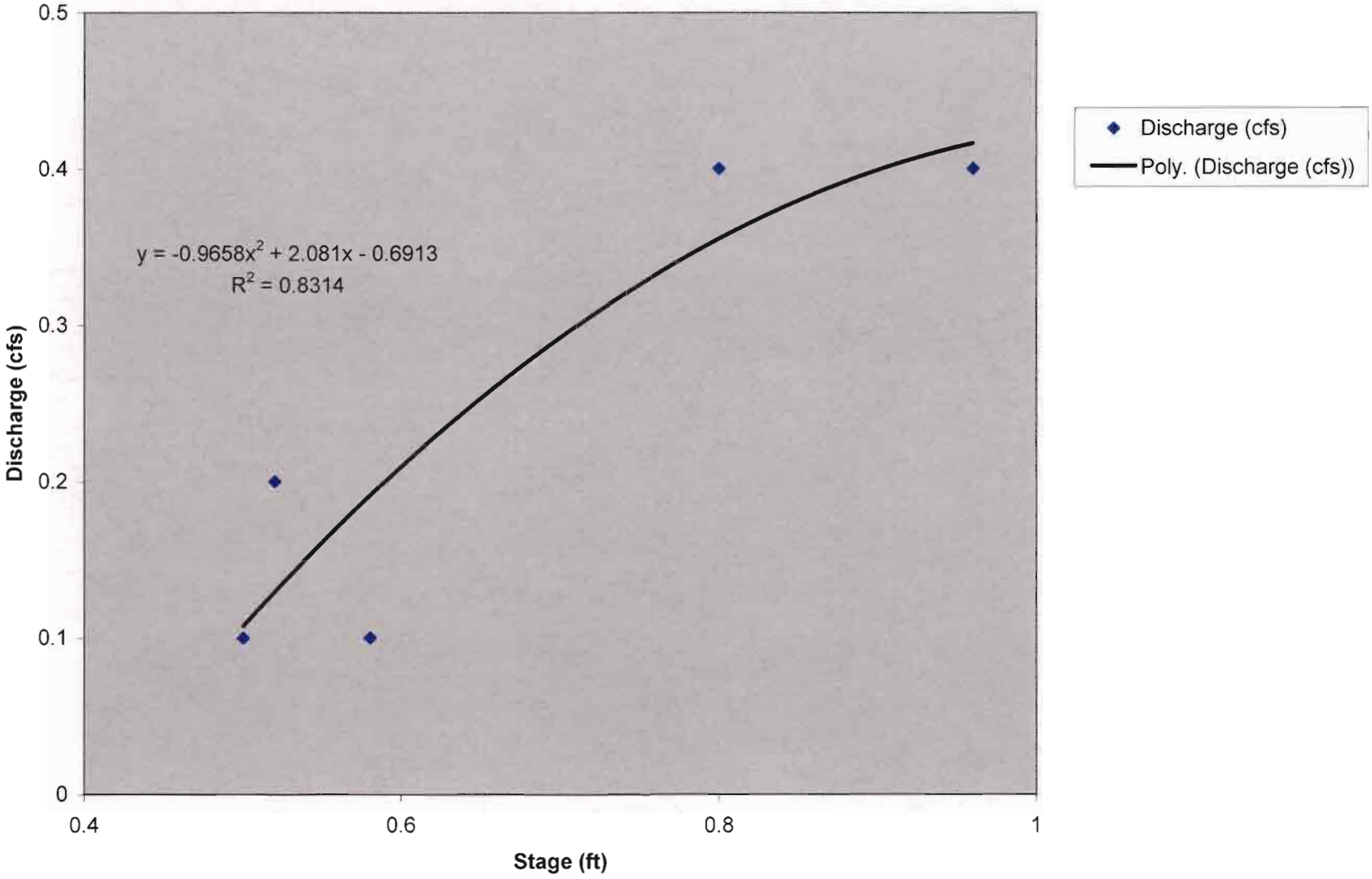
Graph 1.13B: Austin Street Monitoring Station Turbidity\ Rain vs Time



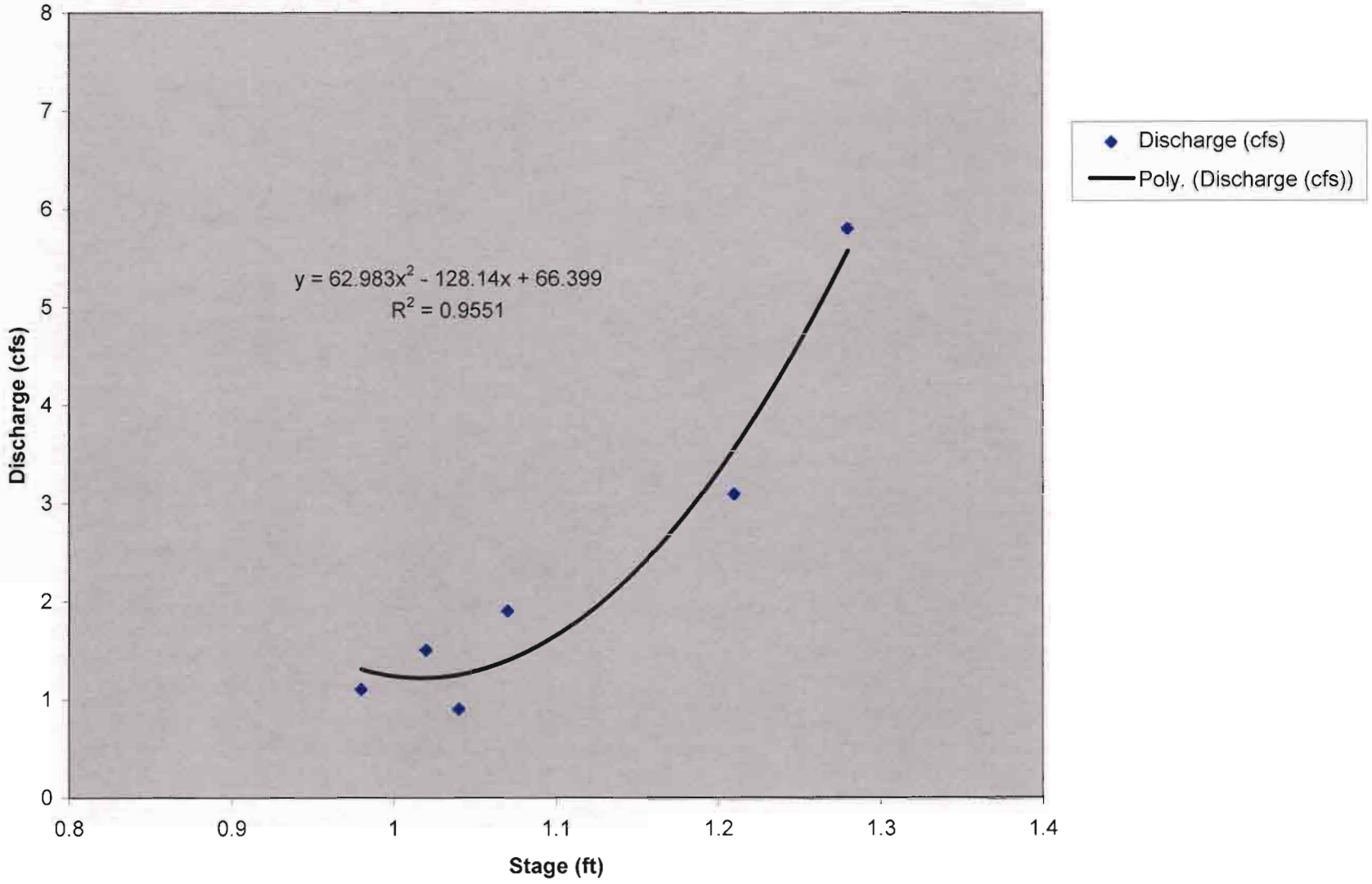
Graph 1.1C: Austin Street Monitoring Station Discharge vs Stage Calibration Curve
9/1/05-11/30/05 for Stage 1.00 ft. to 1.7 ft.



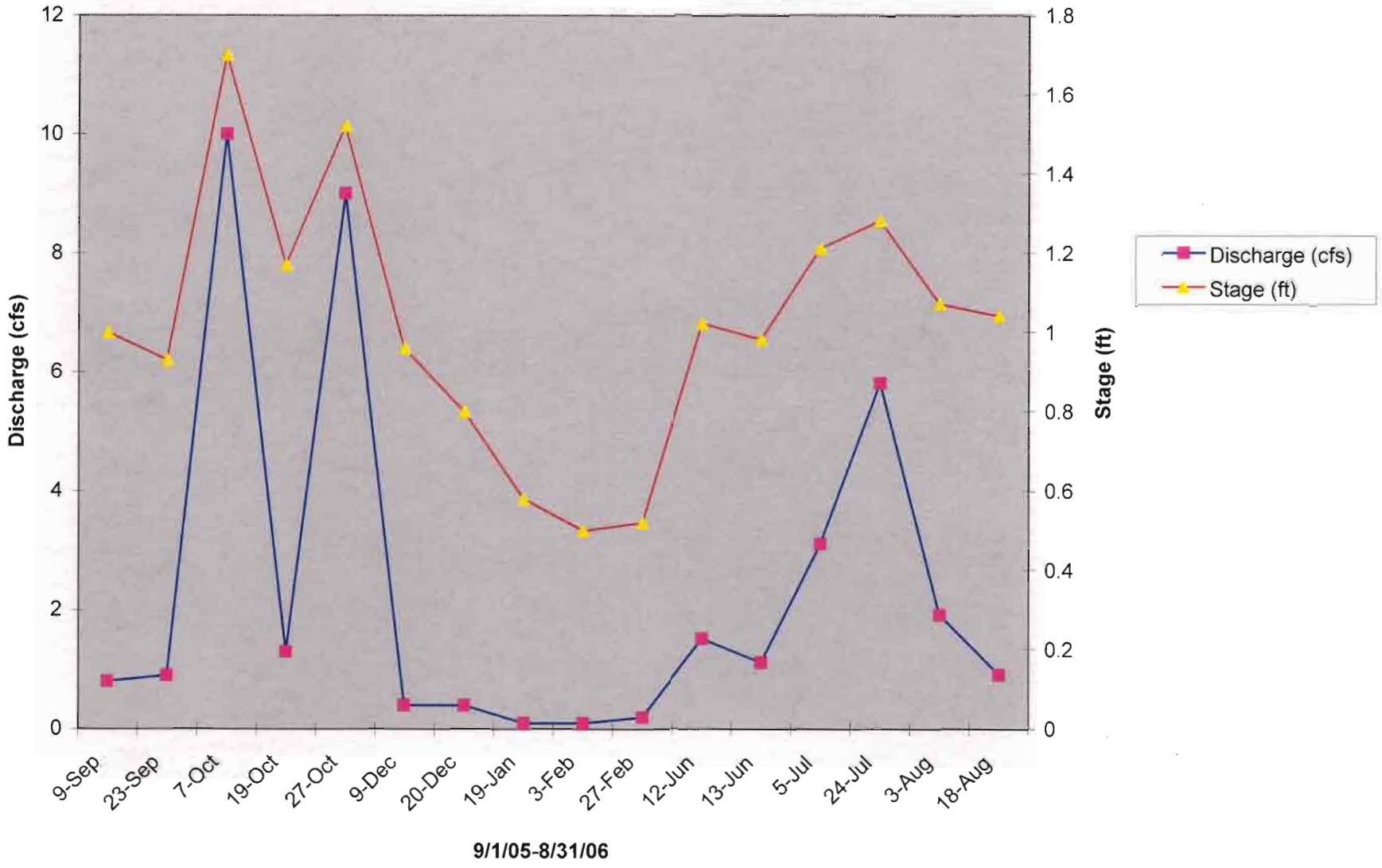
Graph 1.2C: Austin Street Monitoring Station Discharge vs Stage Calibration Curve
12/1/05-2/3/06 for Stage >= 0.5 ft. and <= 0.96 ft.



Graph 1.3C: Austin Street Monitoring Station Discharge vs Stage Calibration Curve
6/1/06-8/31/06 for Stage >= 1.02 ft. and <= 1.28 ft.

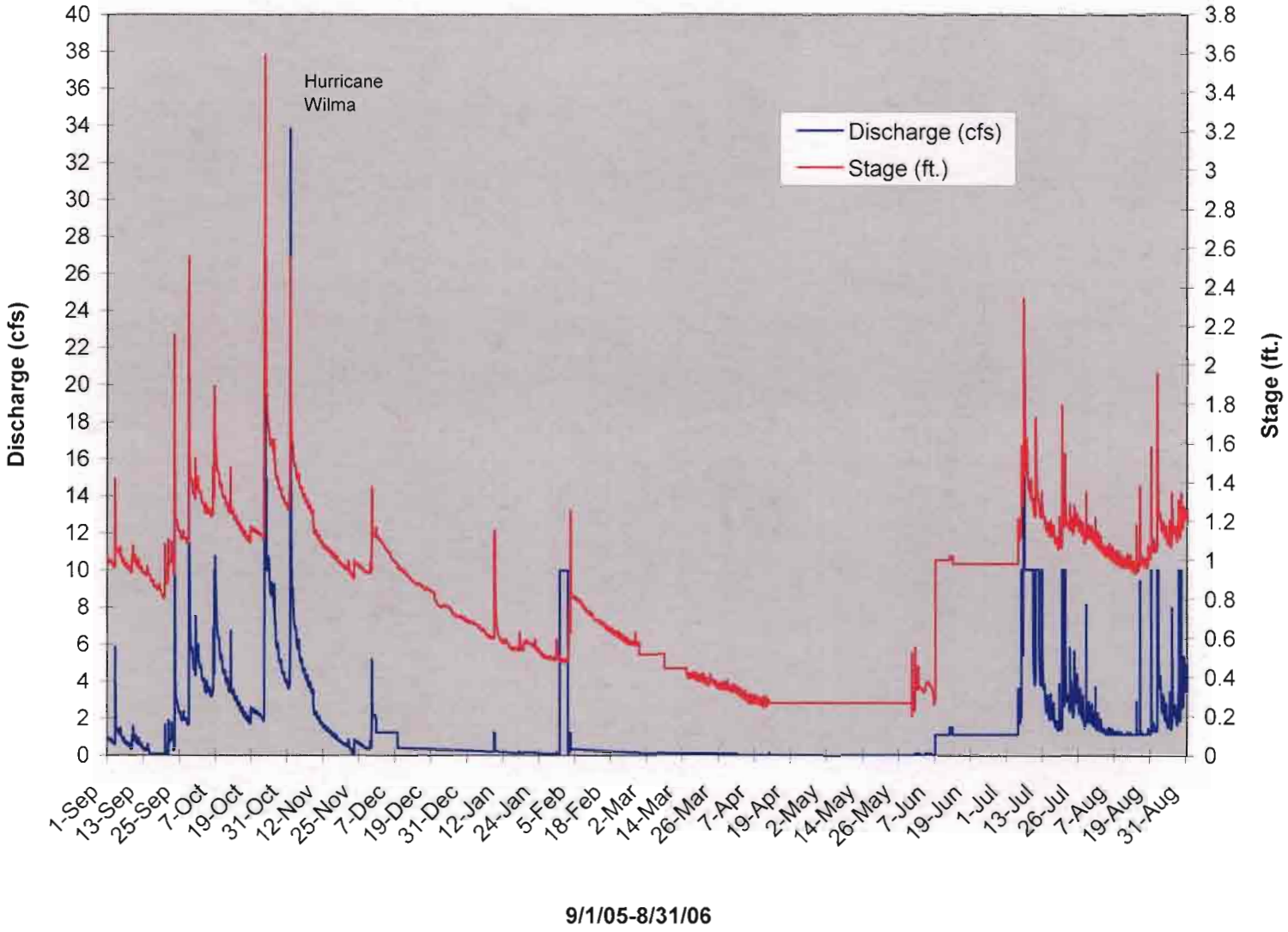


Graph 1.4C: Austin Street Monitoring Station ADV Discharge/Stage vs Time



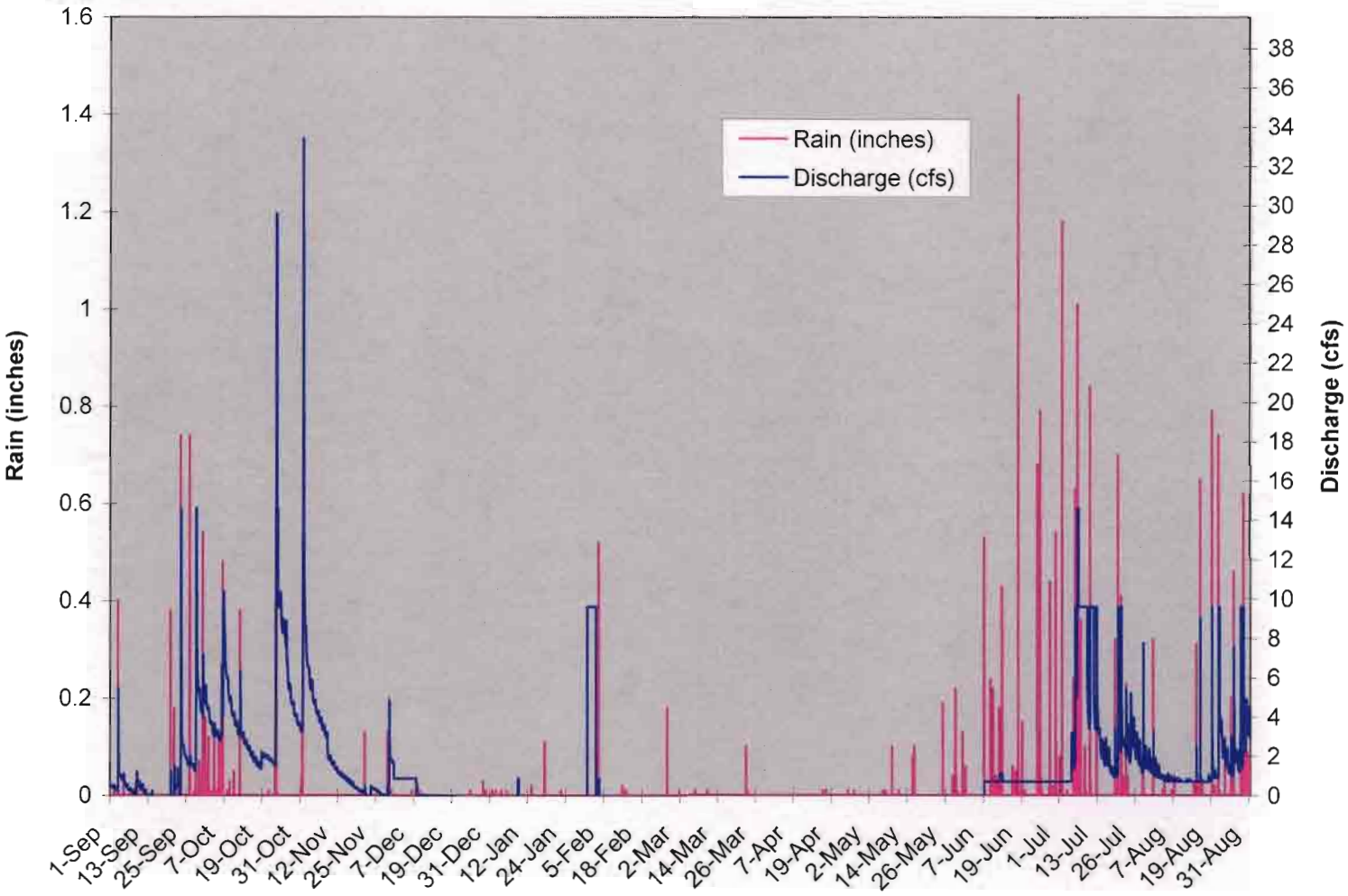
9/1/05-8/31/06

Graph 1.5C: Austin Street Monitoring Station Rain\ Stage vs Time



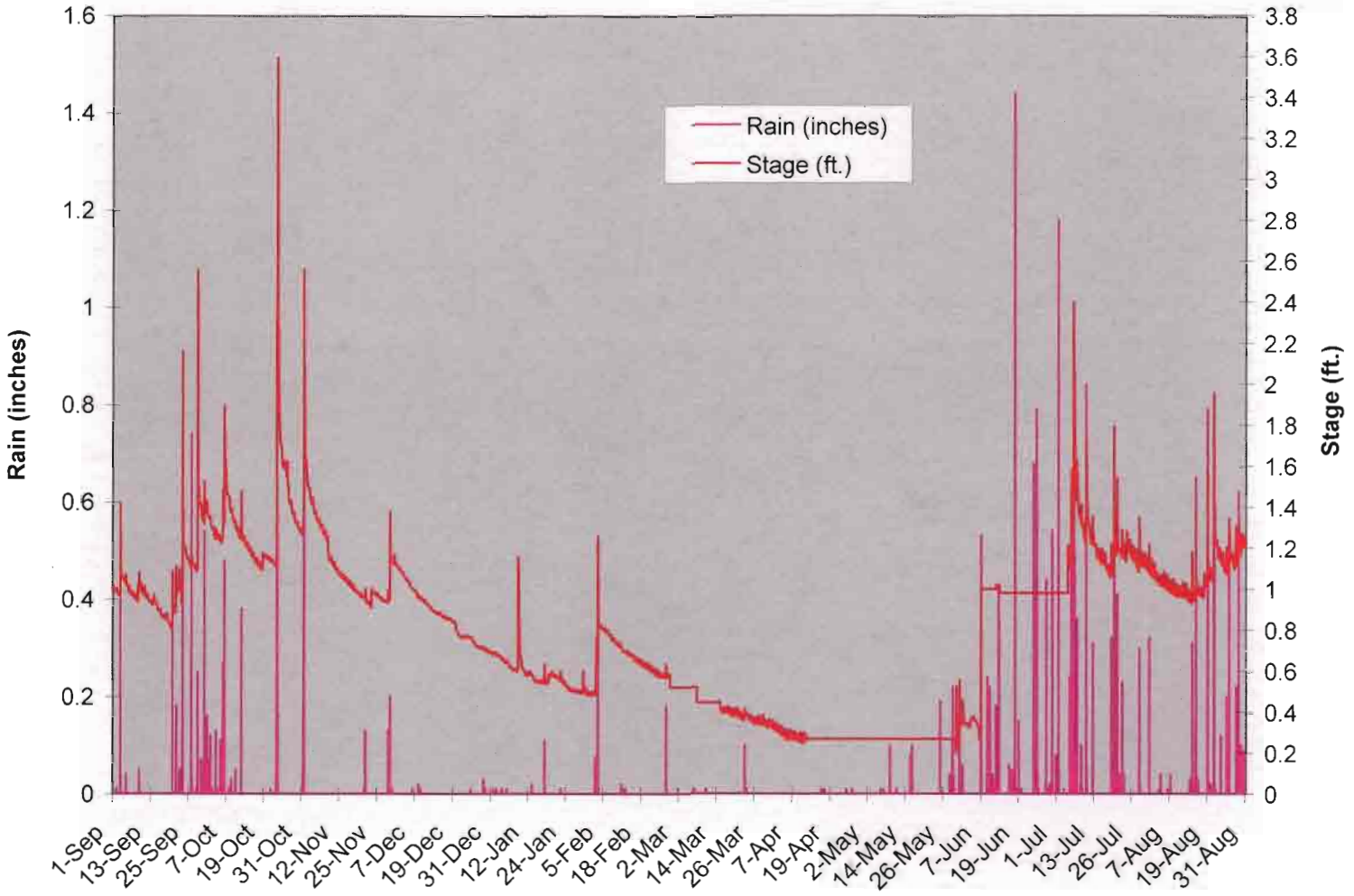
9/1/05-8/31/06

Graph 1.6C: Austin Street Monitoring Station Rain\ Discharge vs Time



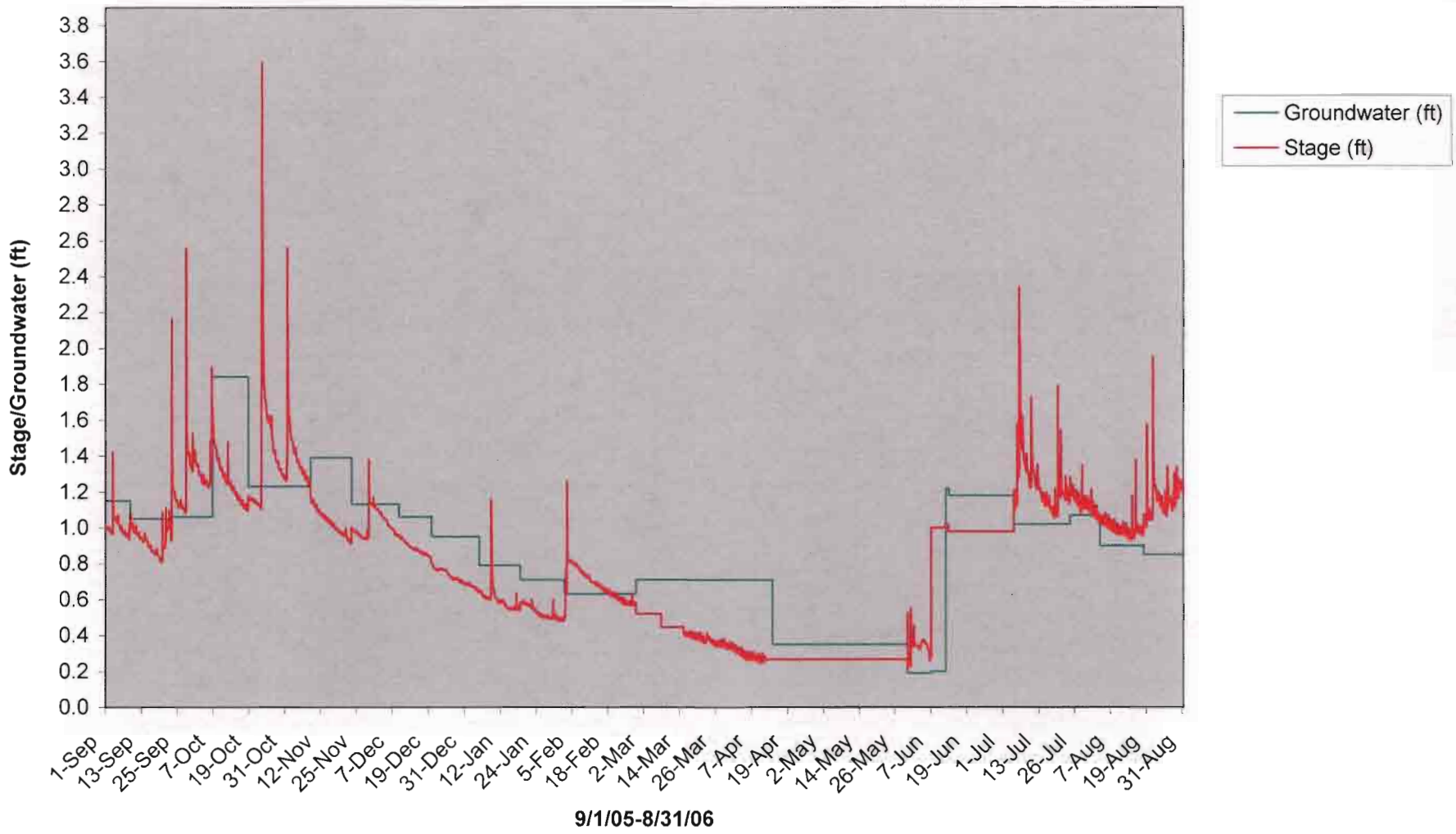
9/1/05-8/31/06

Graph 1.7C: Austin Street Monitoring Station Rain\ Stage vs Time



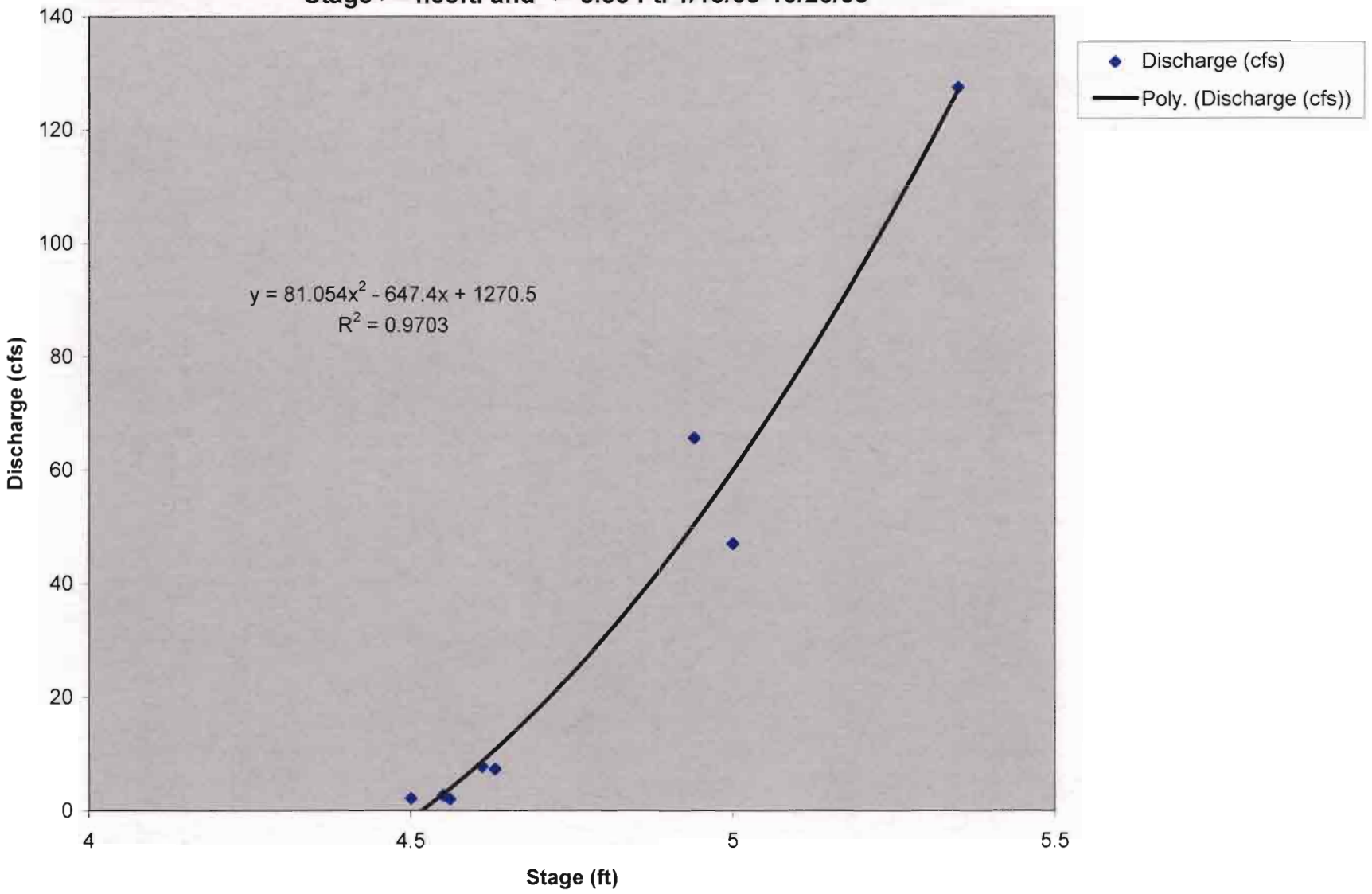
9/1/05-8/31/06

Graph 1.8C: Austin Street Monitoring Station Stage\Groundwater Elevation vs Time

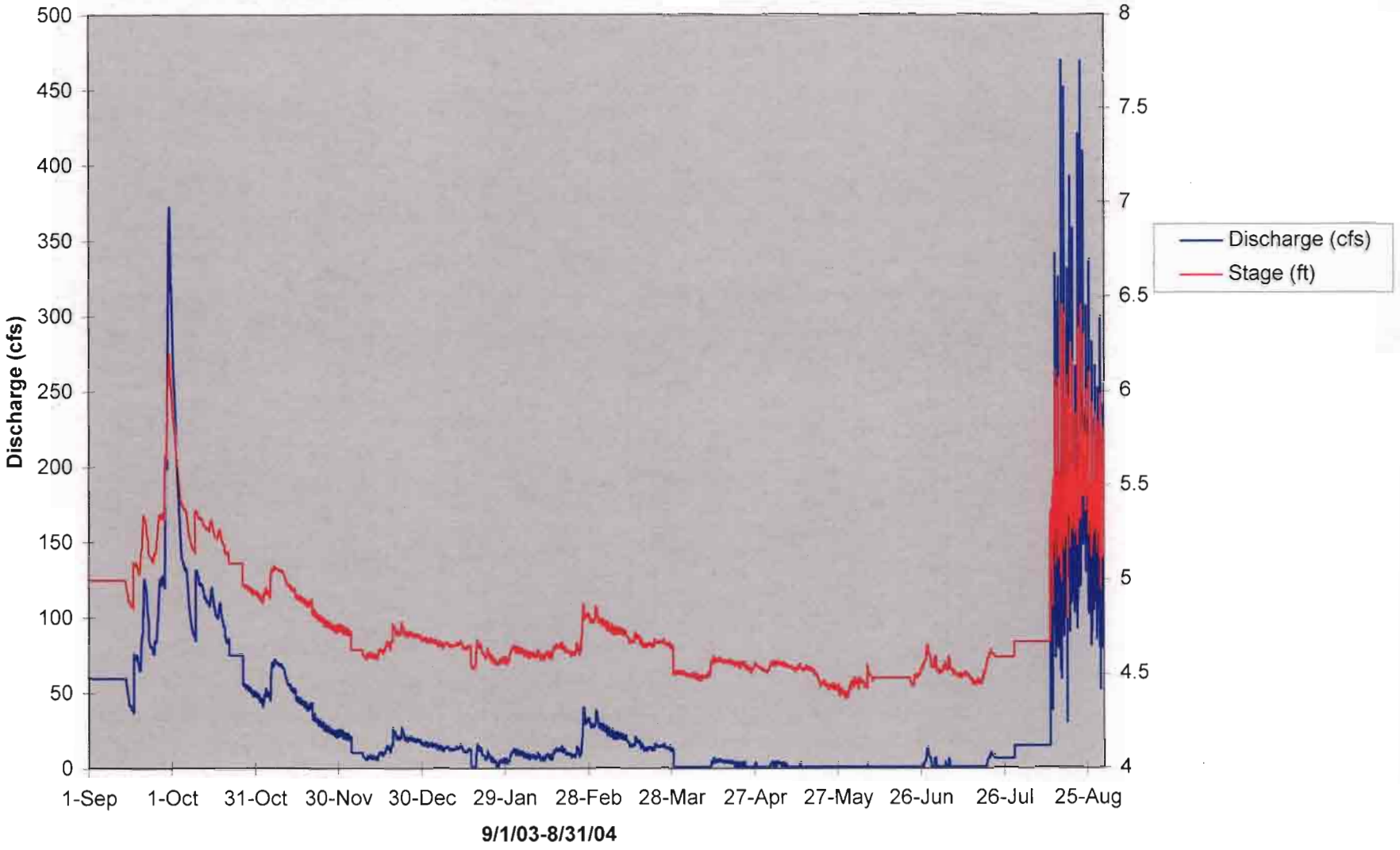


A.2 BROOKS TROPICAL GRAPHS

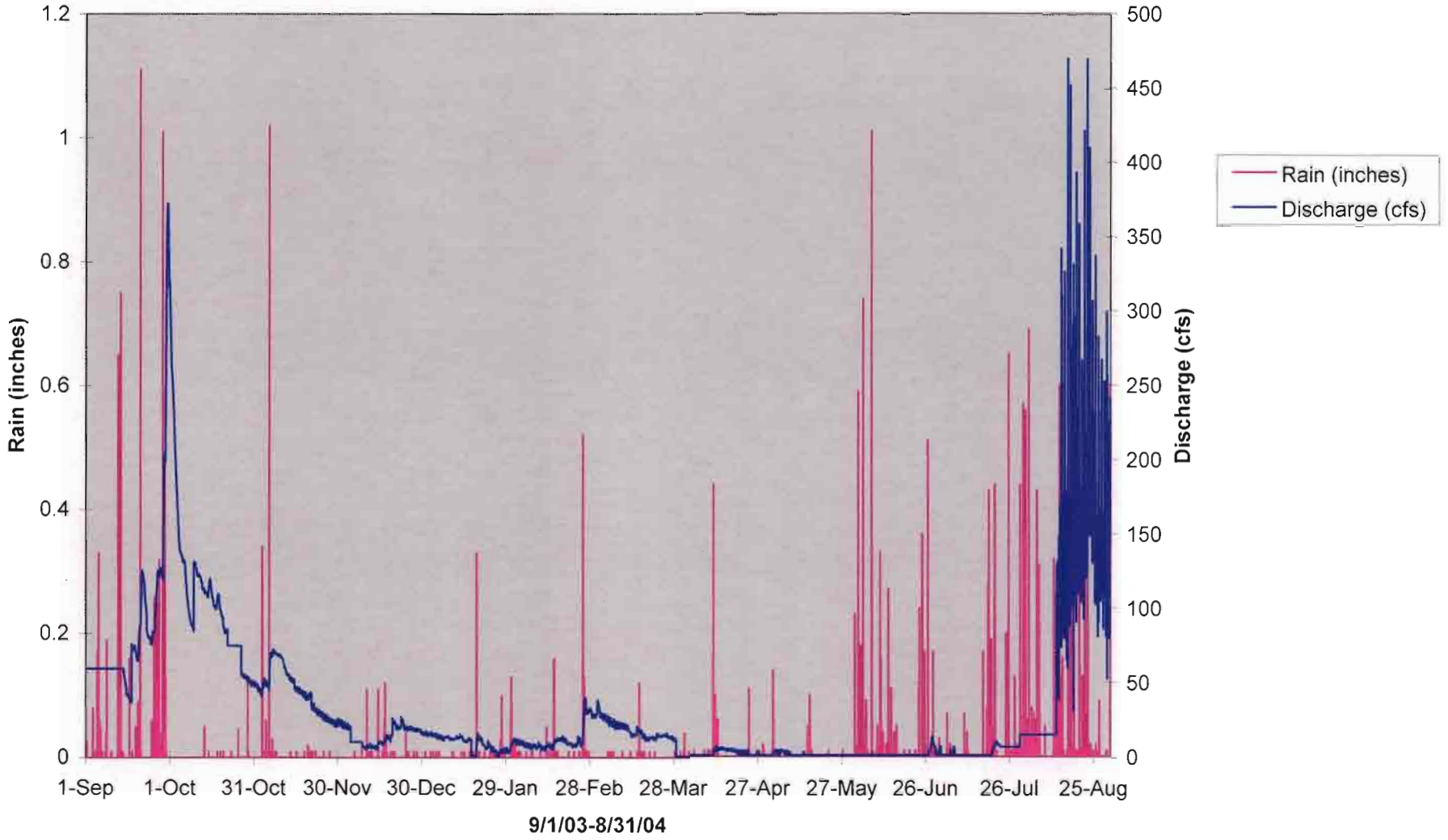
Graph 2.1A: Brooks Tropical Monitoring Station Discharge vs Stage Calibration Curve for Stage >=4.55ft. and <= 5.35 Ft. 1/13/03-10/26/05



Graph 2.2A: Brooks Tropical Monitoring Station Stage\Discharge vs Time

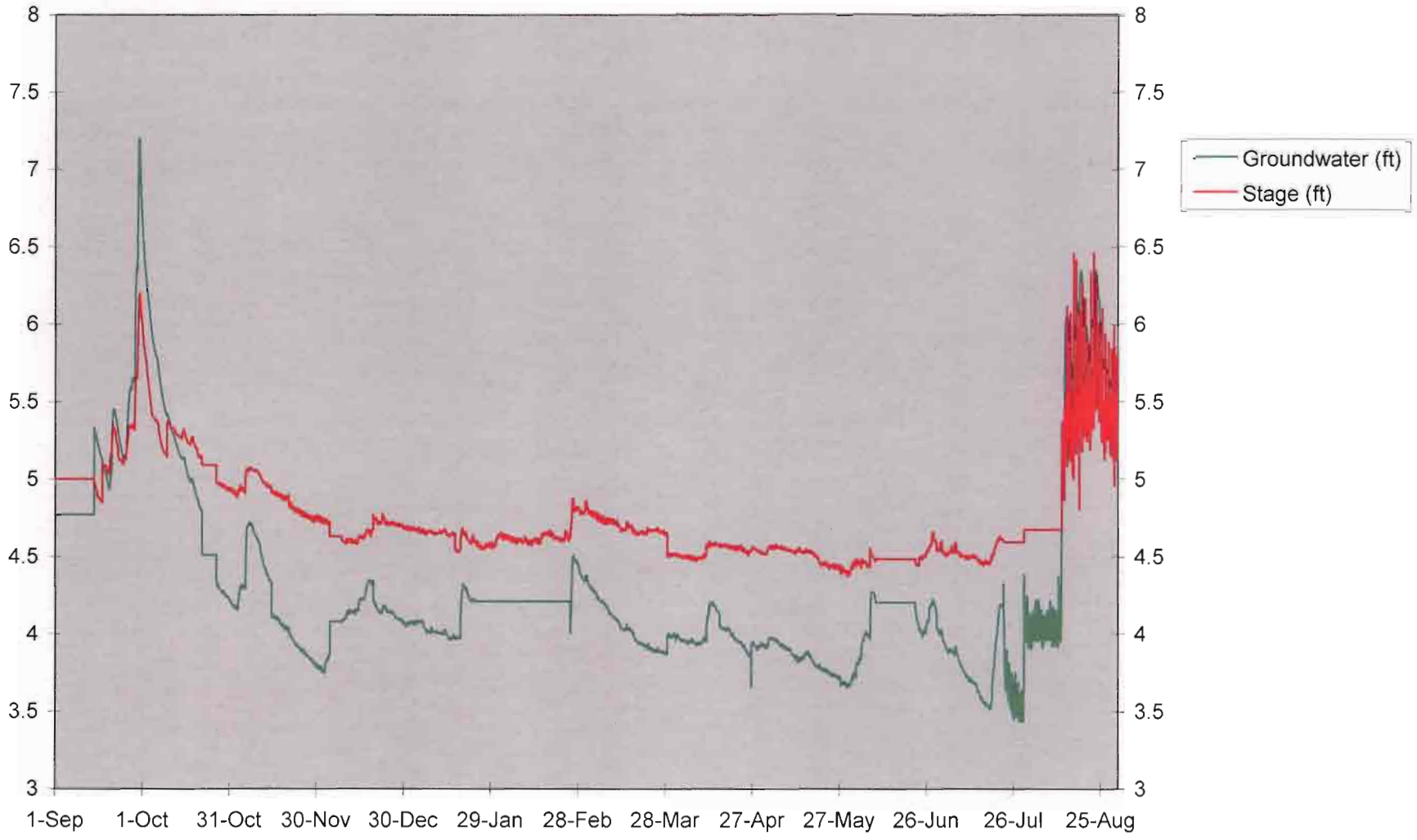


Graph 2.3A: Brooks Tropical Monitoring Station Rain\Discharge vs Time



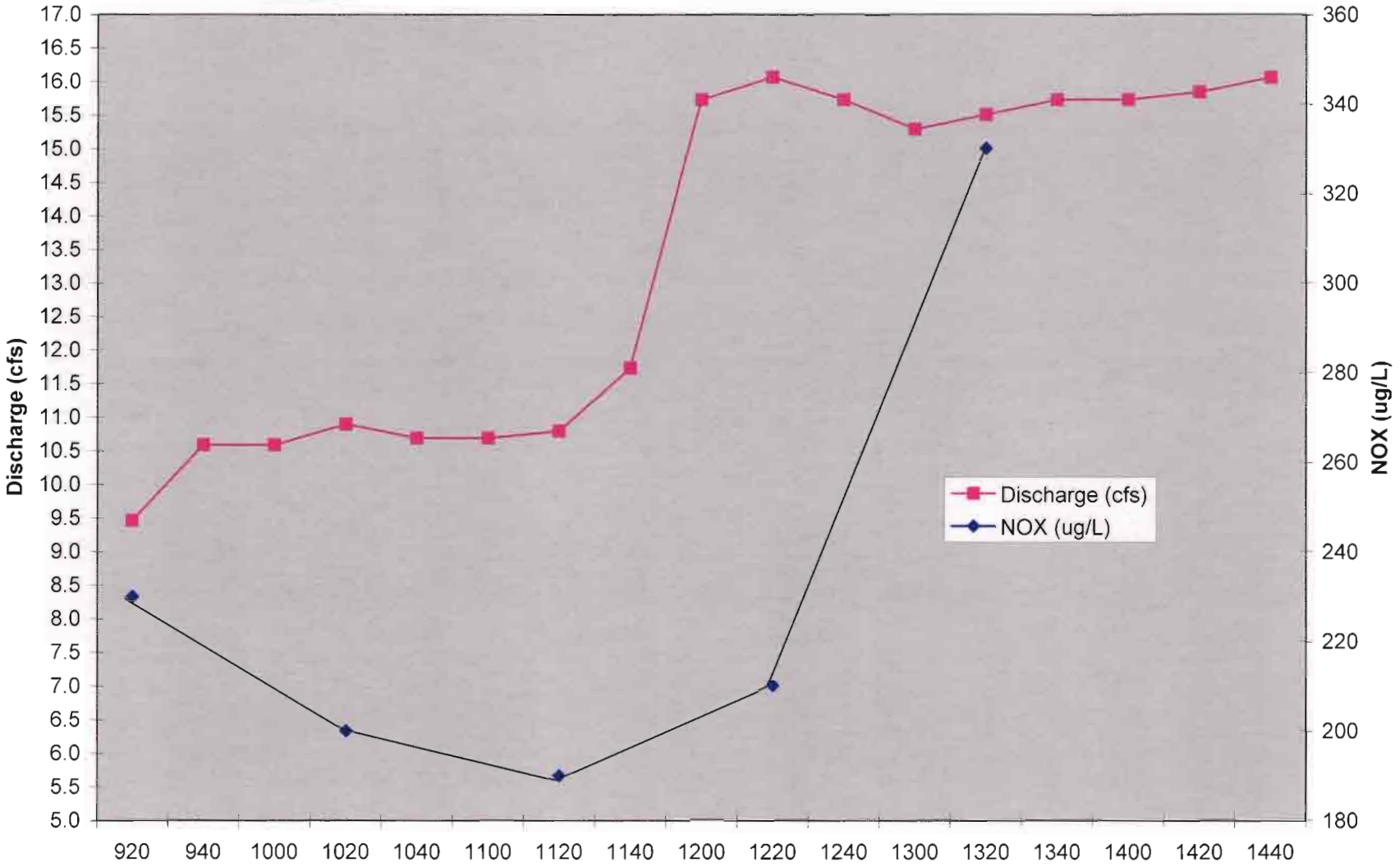
9/1/03-8/31/04

Graph 2.4A: Brooks Tropical Monitoring Station Groundwater Elevation\Stage vs Time

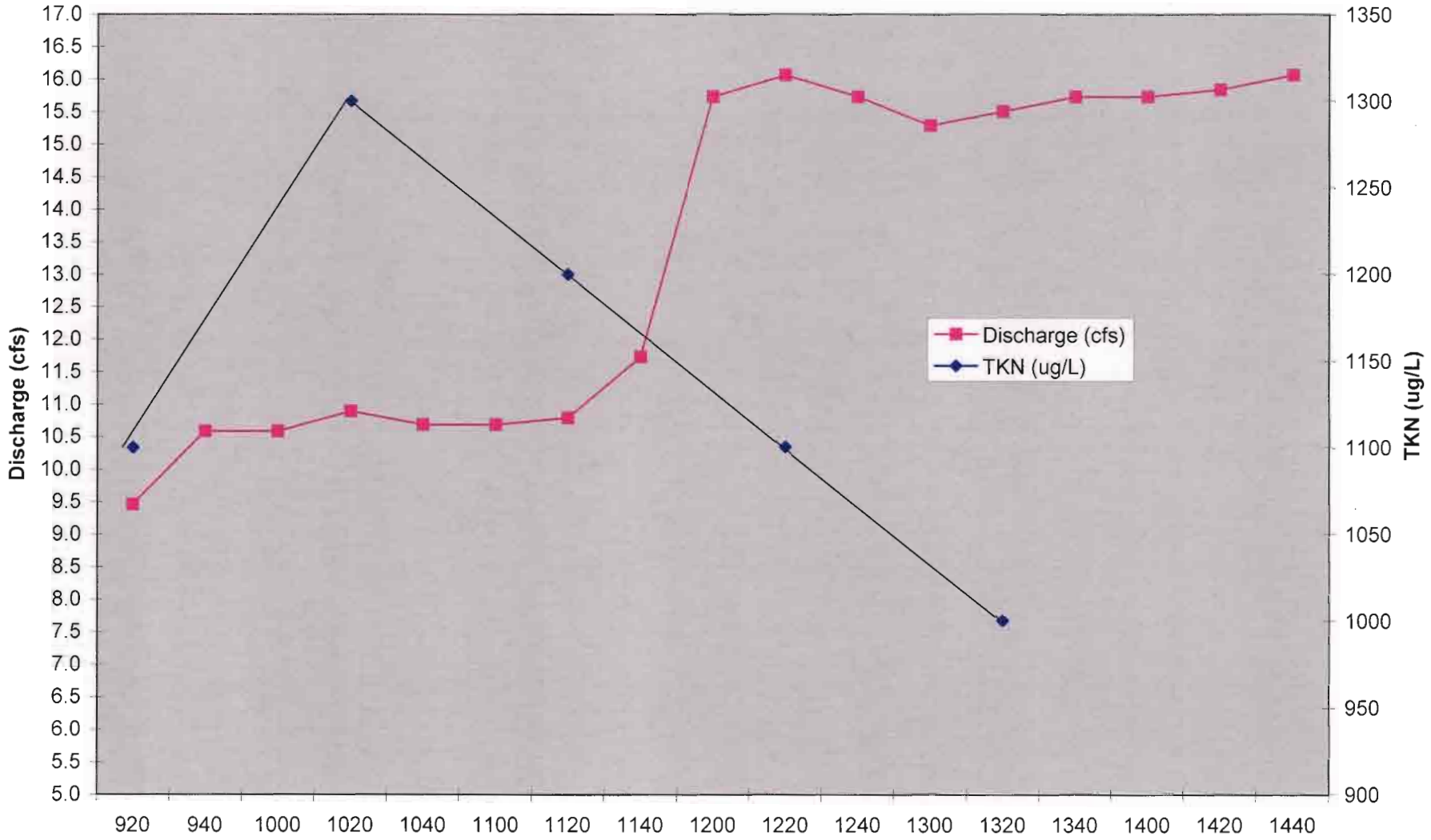


9/1/03-8/31/04

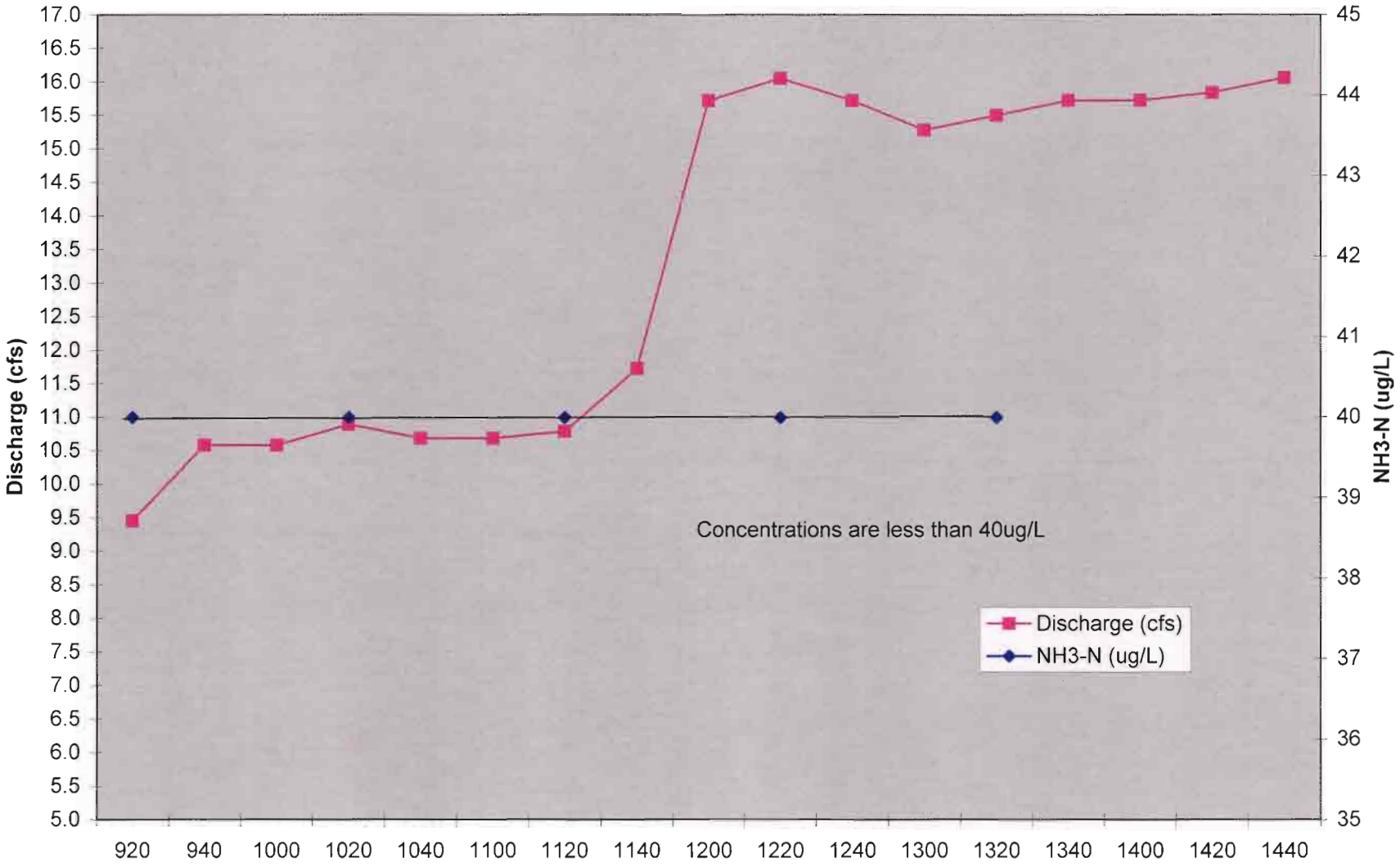
Graph 2.5A: Brooks Tropical Monitoring Station Nitrate + Nitrite (NOX) / Discharge vs Time 2/25/04



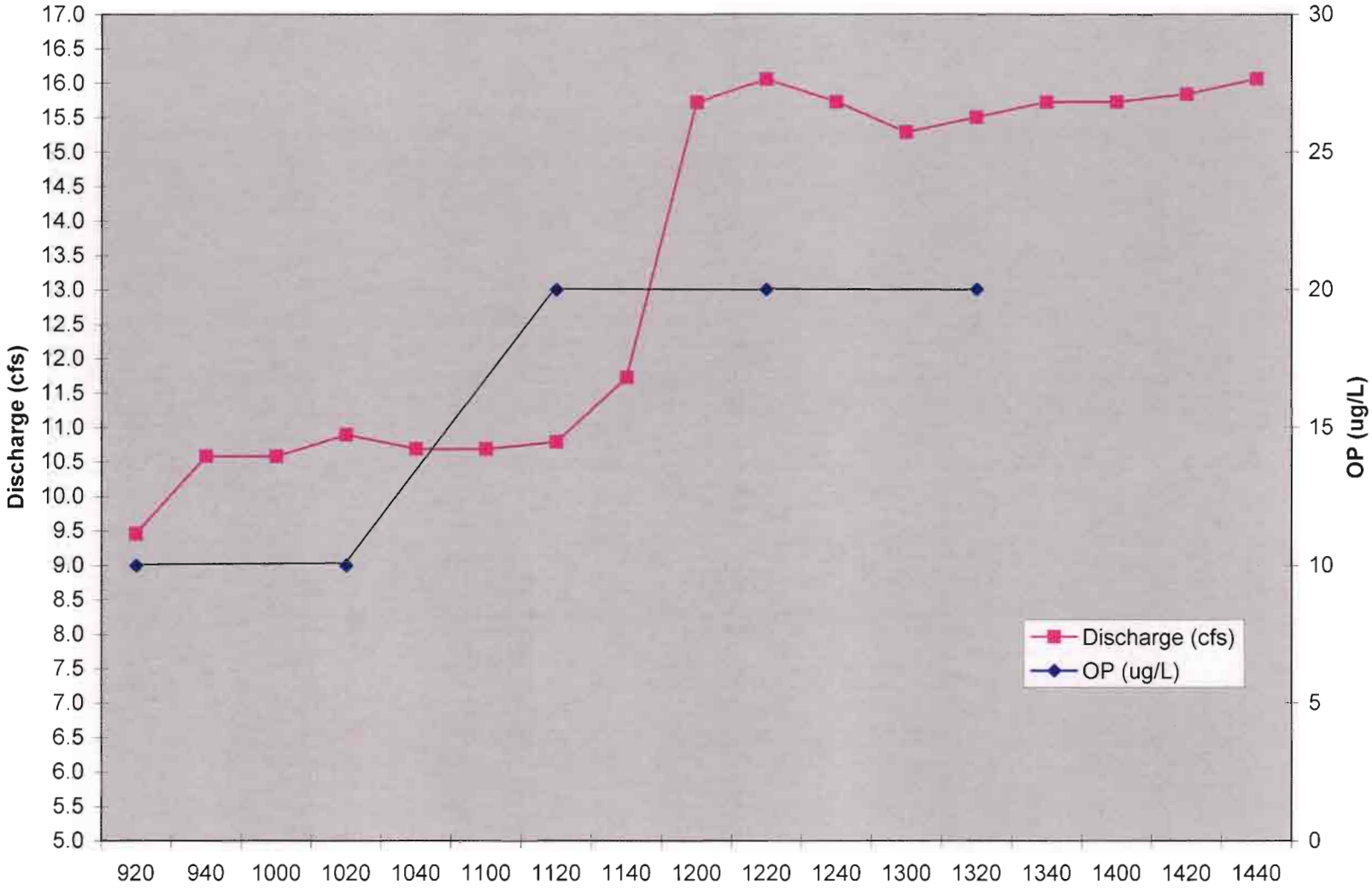
Graph 2.6A: Brooks Tropical Monitoring Station Total Keldahl Nitrogen (TKN) / Discharge vs Time 2/25/04



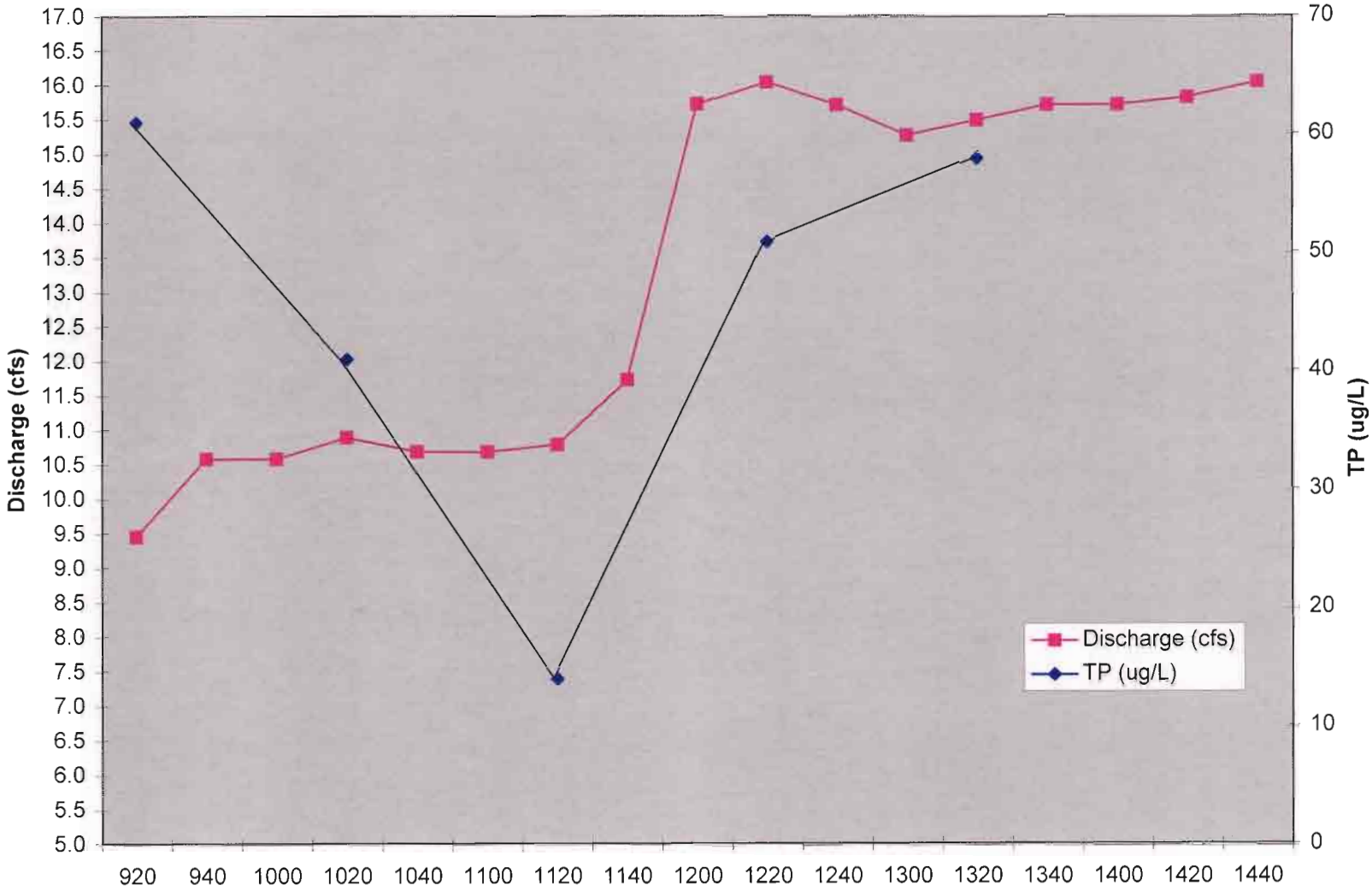
Graph 2.7A: Brooks Tropical Monitoring Station Ammonia (NH3-N) / Discharge vs Time 2/25/04



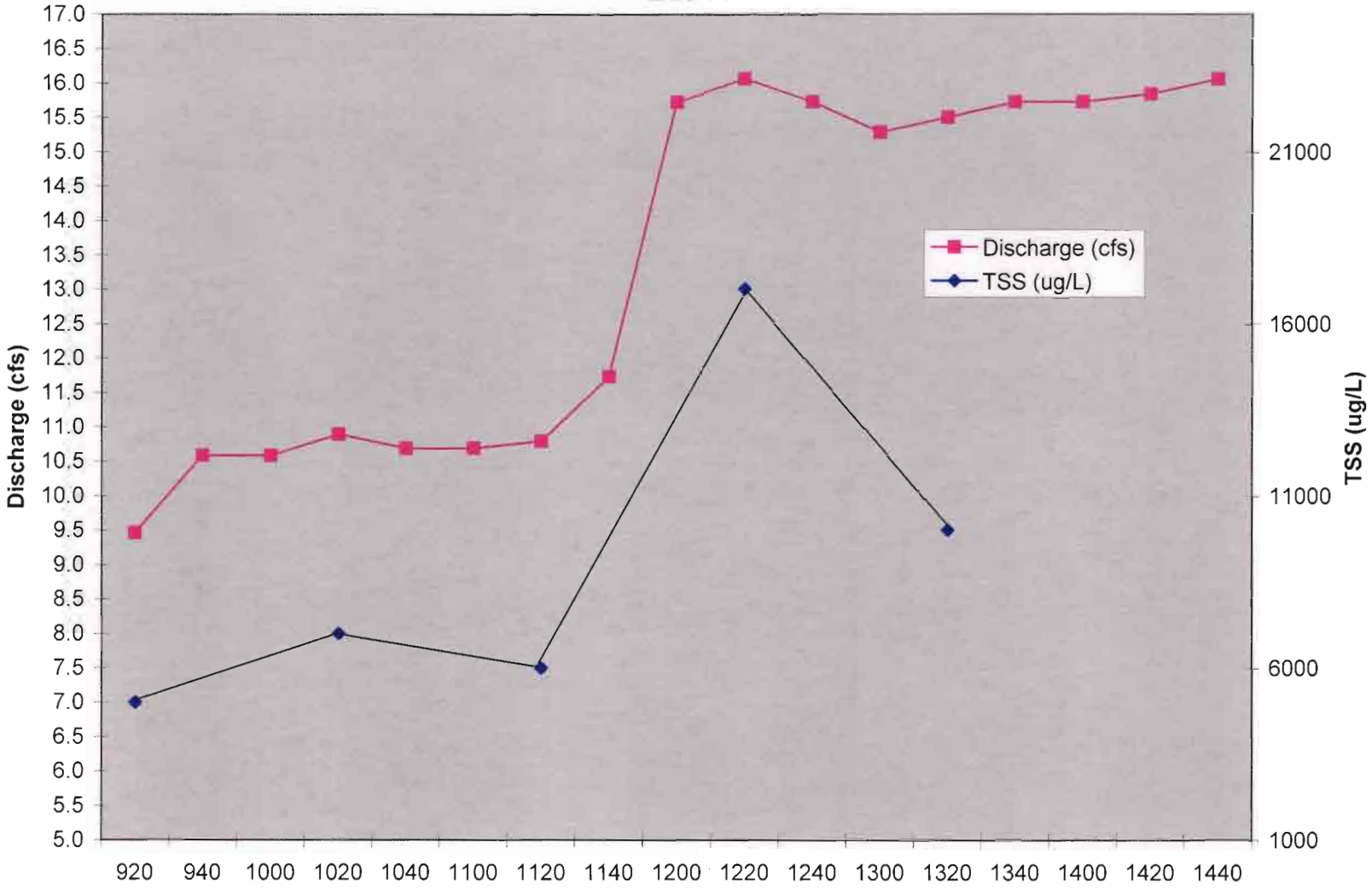
Graph 2.8A: Brooks Tropical Monitoring Station Ortho Phosphate (OP) / Discharge vs Time 2/25/04



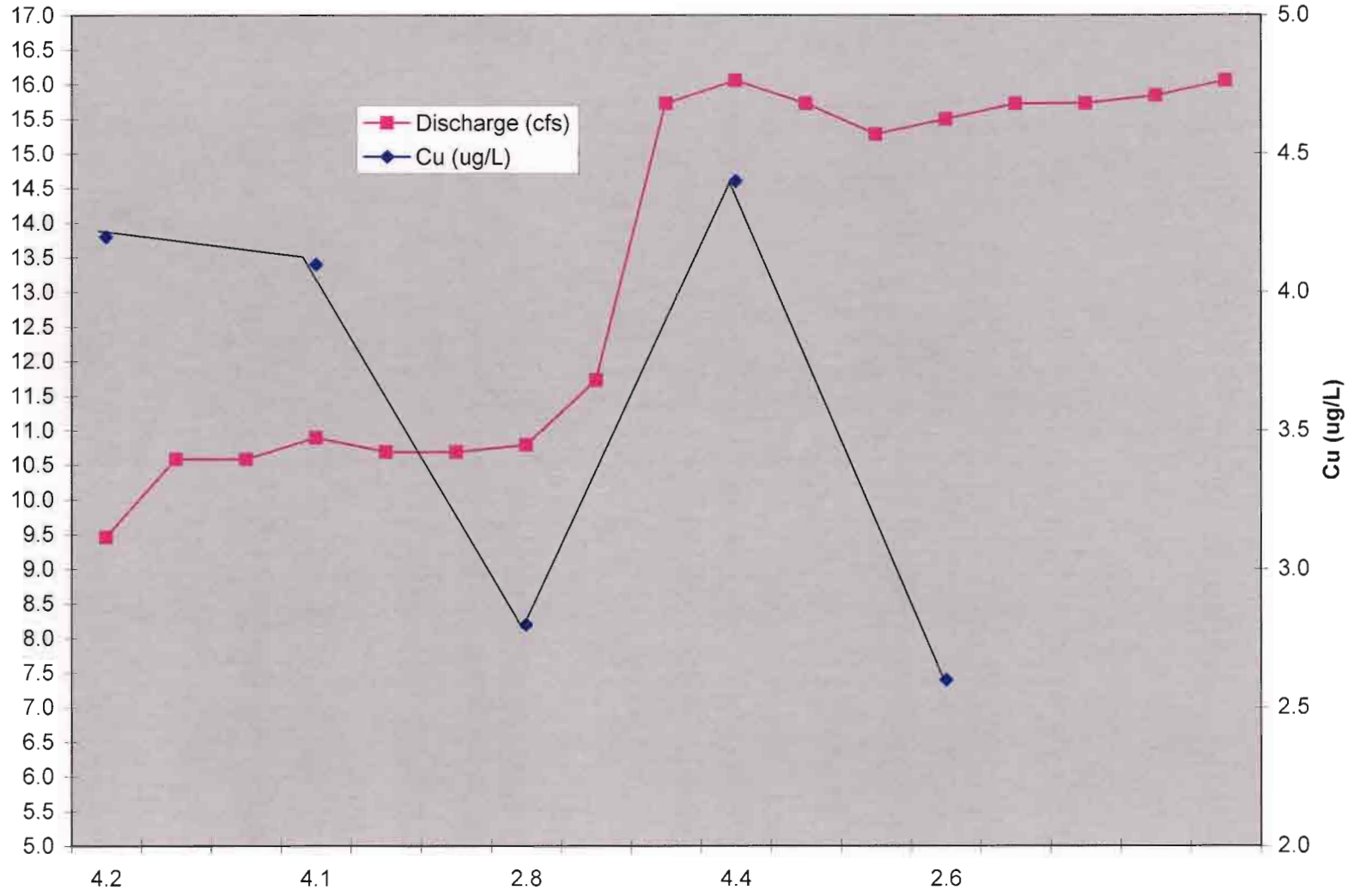
Graph 2.9A: Brooks Tropical Street Monitoring Station Total Phosphate (TP) / Discharge vs Time 2/25/04



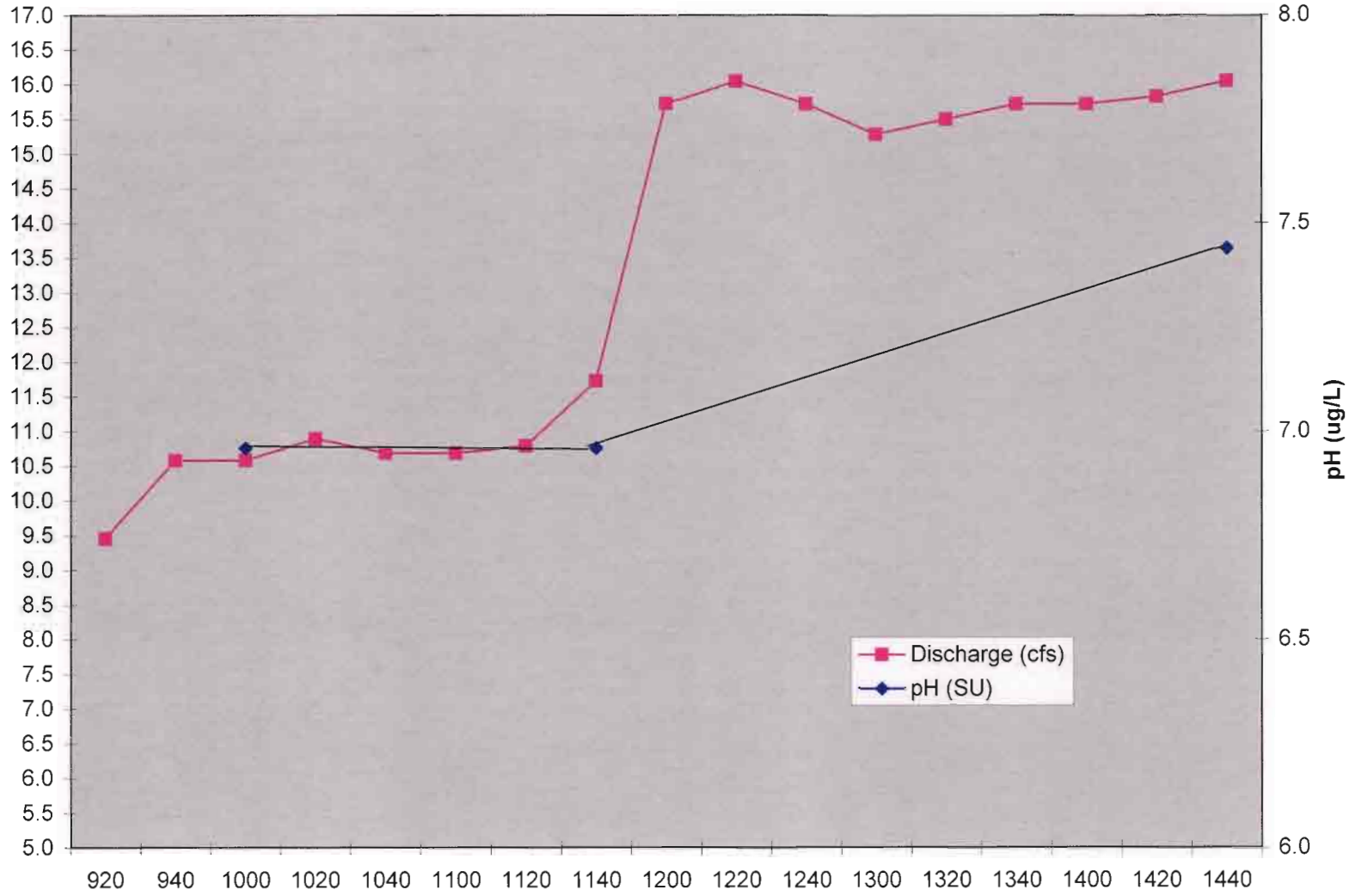
Graph 2.10A: Brooks Tropical Monitoring Station Total Suspended Solids (TSS) / Discharge vs Time
2/25/04



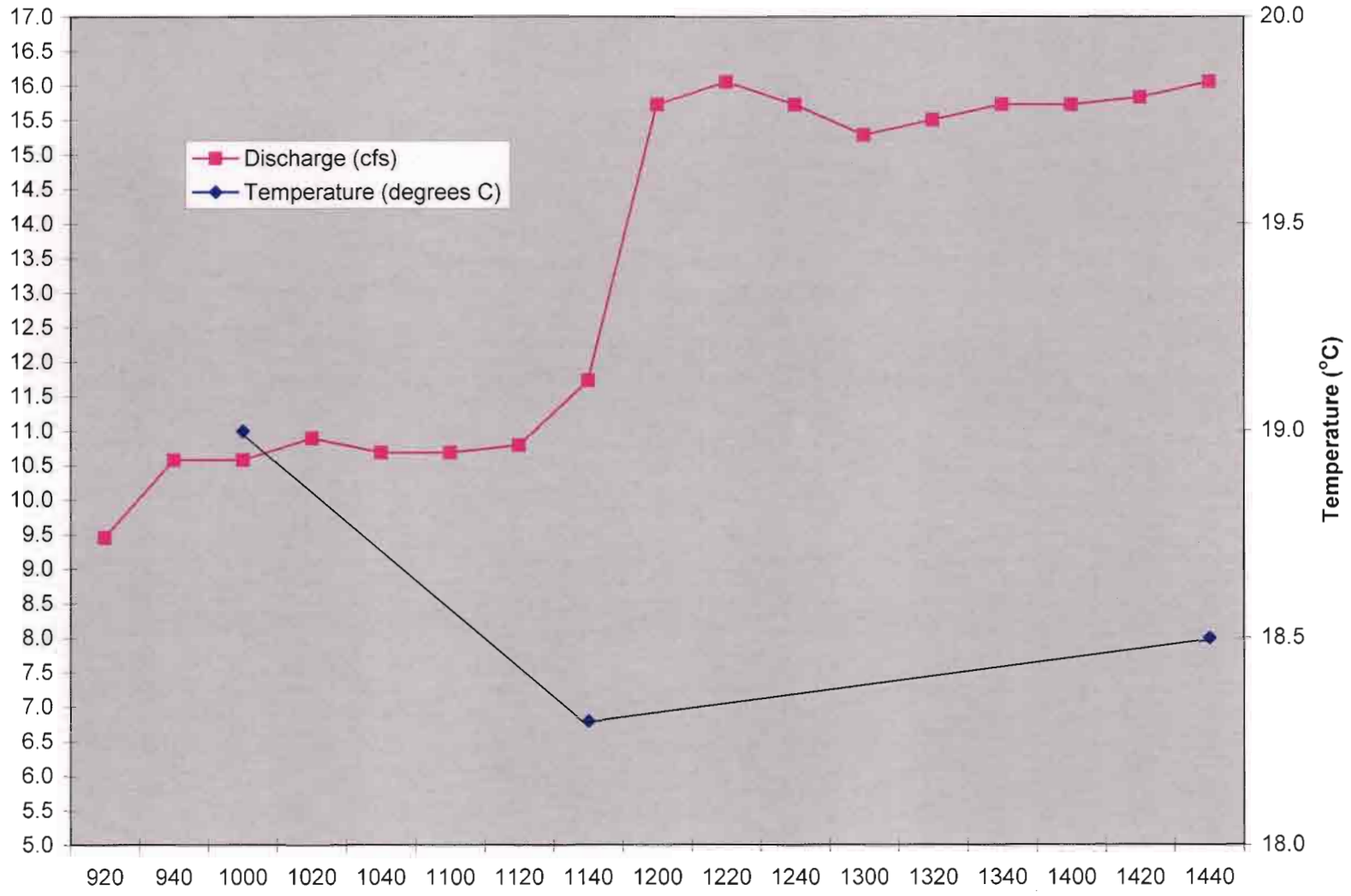
Graph 2.11A: Brooks Tropical Monitoring Station Copper (Cu) / Discharge vs Time 2/25/04



Graph 2.12A: Brooks Tropical Monitoring Station pH / Discharge vs Time 2/25/04

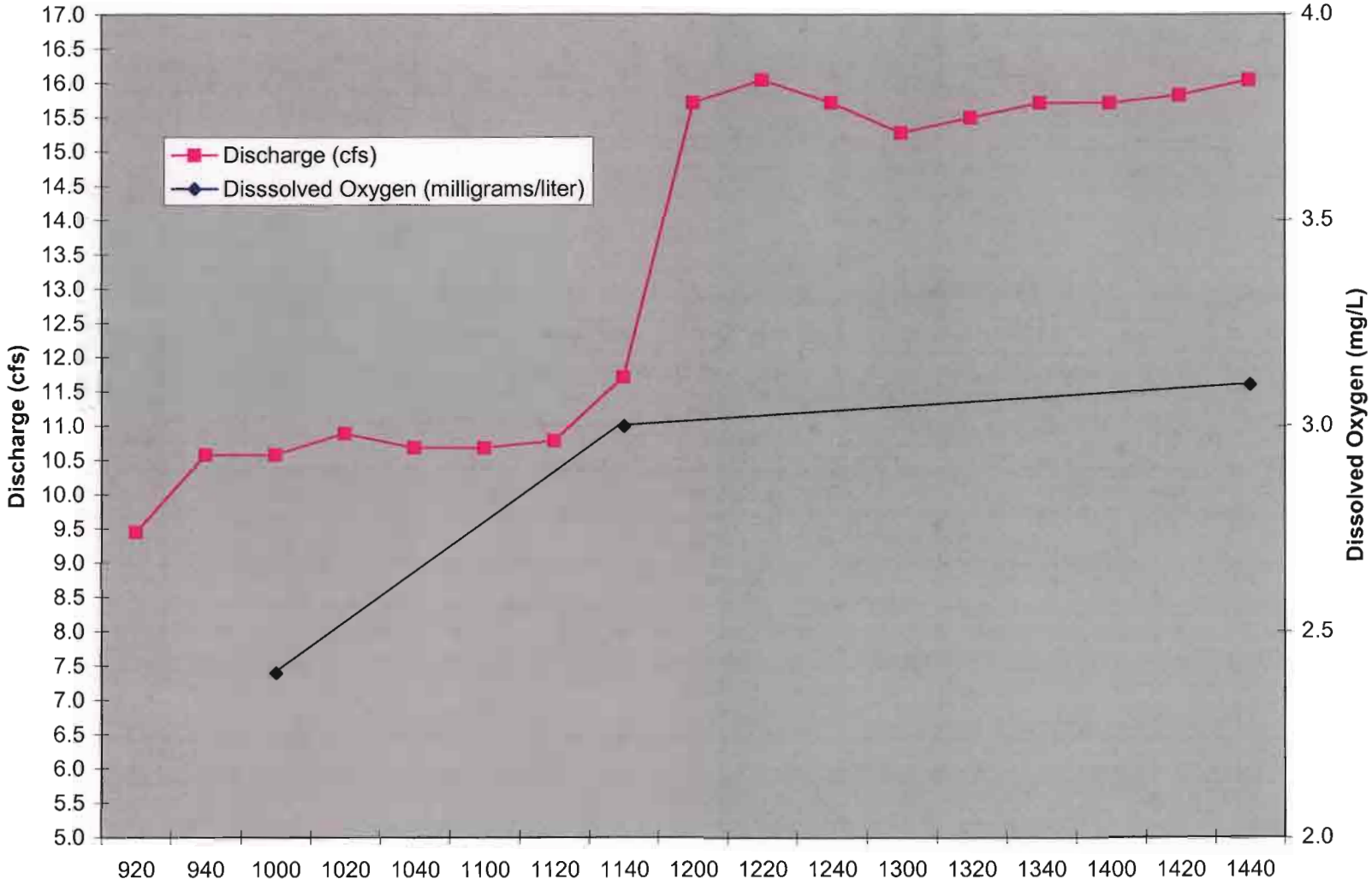


Graph 2.13A: Brooks Tropical Monitoring Station Temperature / Discharge vs Time 2/25/04

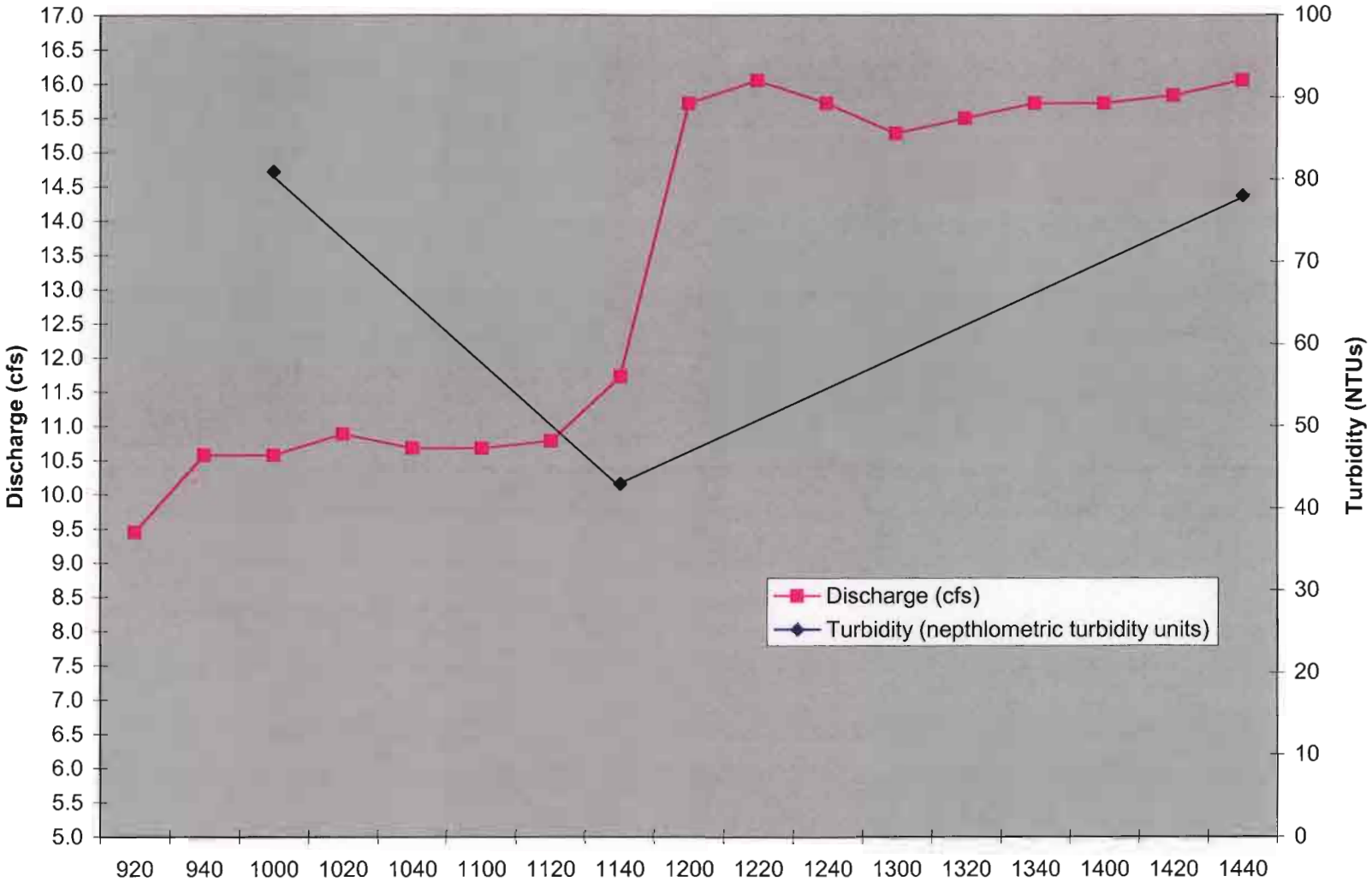


Graph 2.14A: Brooks Tropical Monitoring Station Specific Conductivity / Discharge vs Time 2/25/04

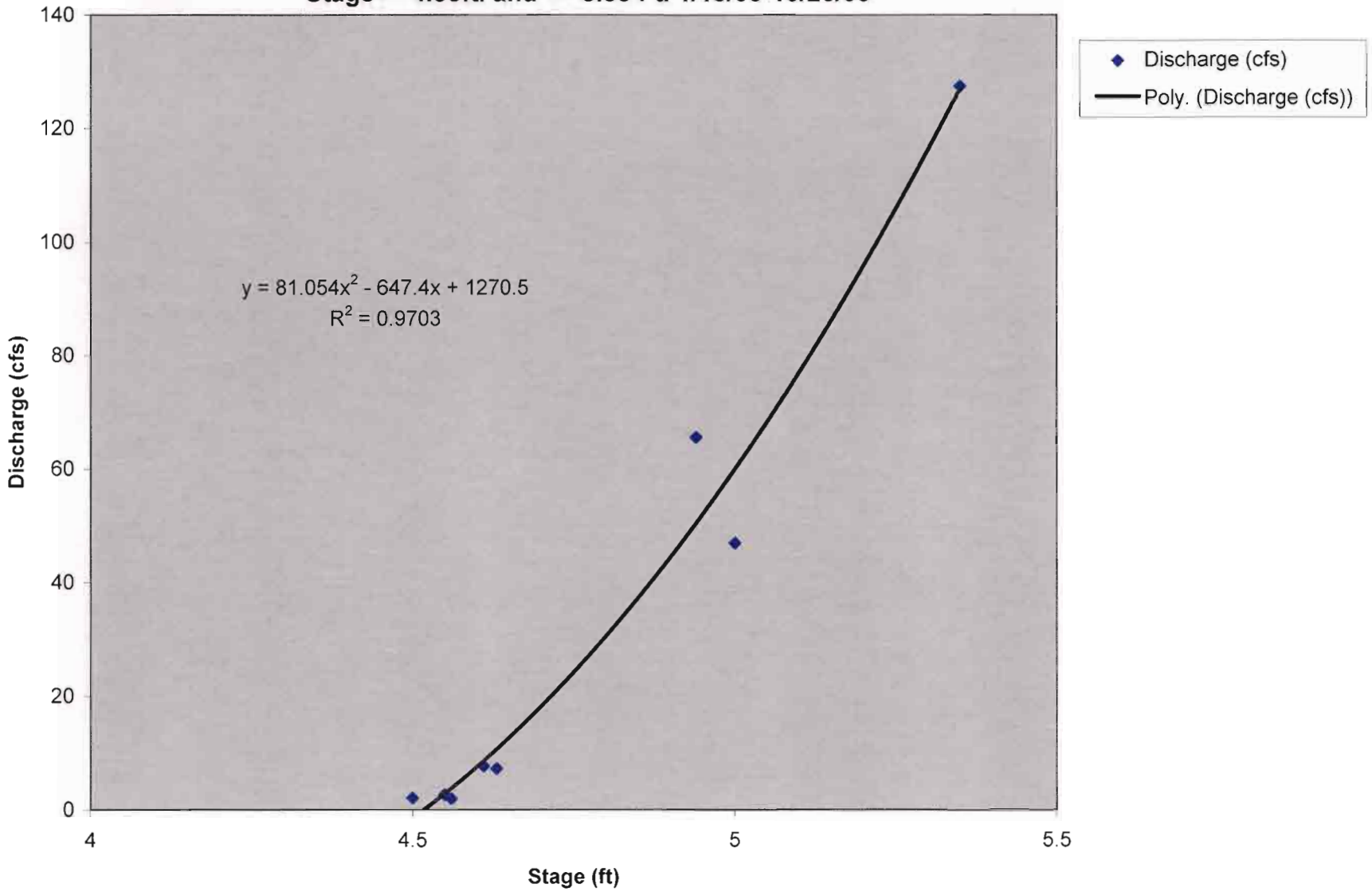
Graph 2.15A: Brooks Tropical Monitoring Station Dissolved Oxygen / Discharge vs Time 2/25/04



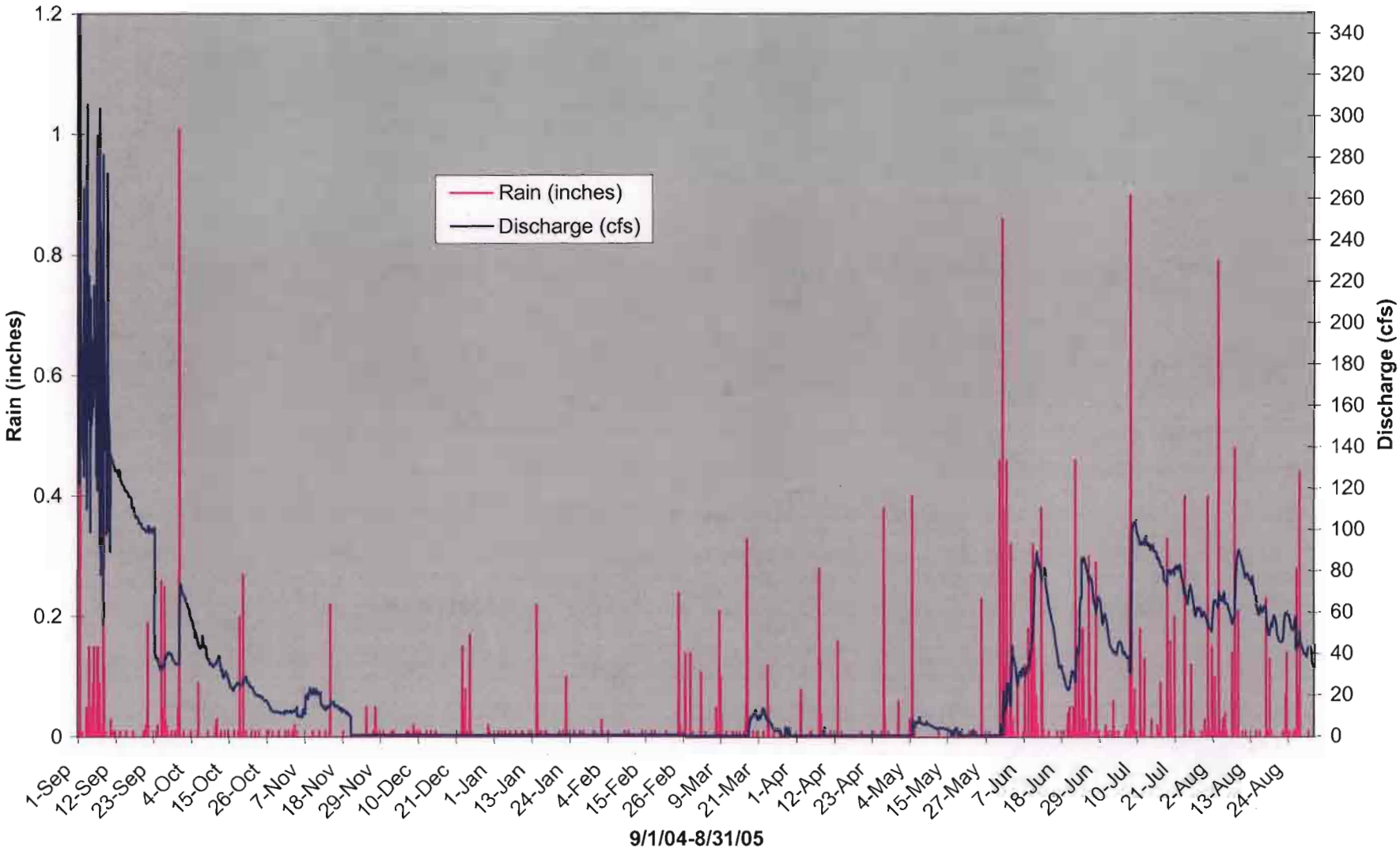
Graph 2.16A: Brooks Tropical Monitoring Station Turbidity / Discharge vs Time 2/25/04



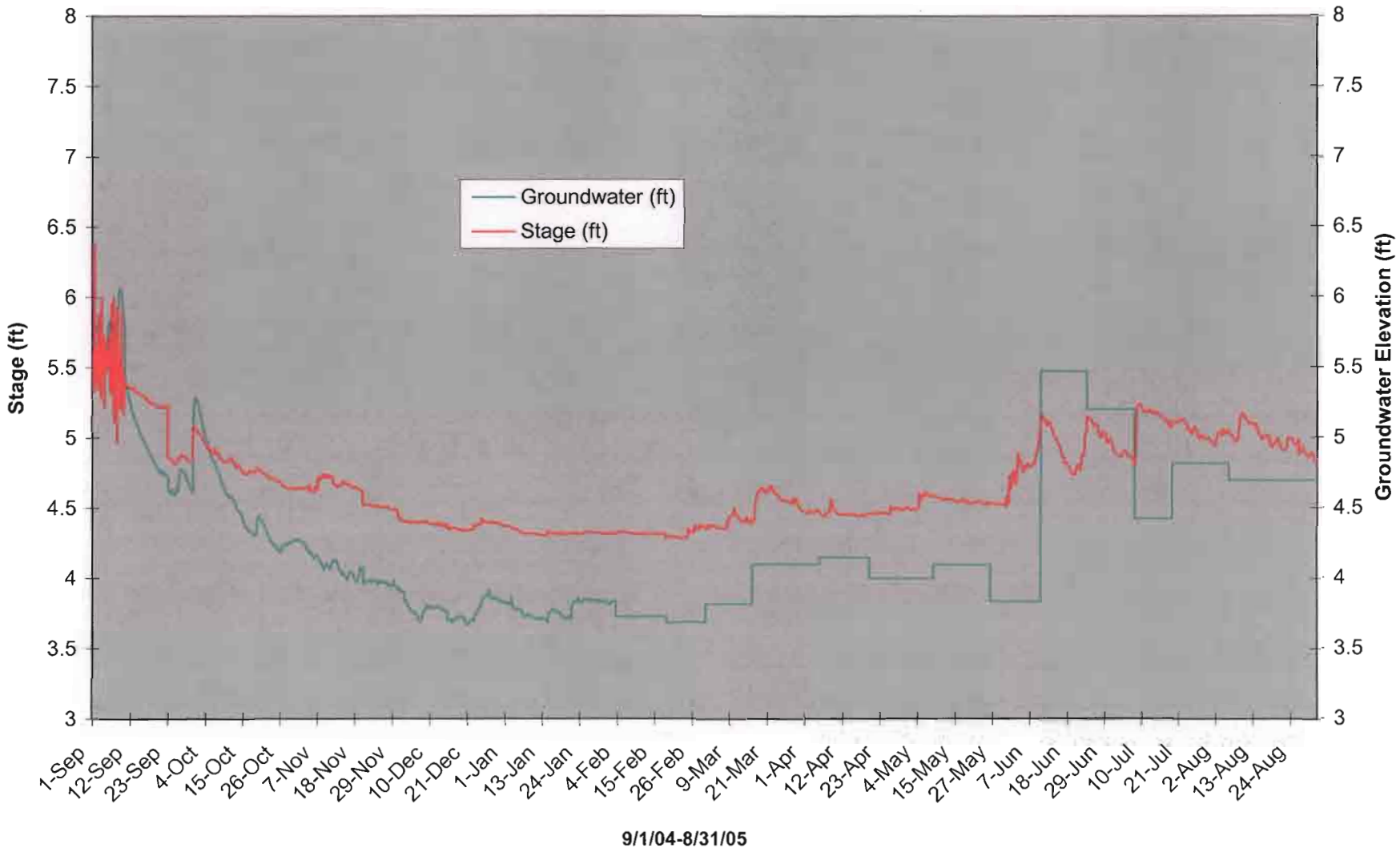
Graph 2.1B: Brooks Tropical Monitoring Station Discharge vs Stage Calibration Curve for Stage >=4.55ft. and <= 5.35 Ft. 1/13/03-10/26/05



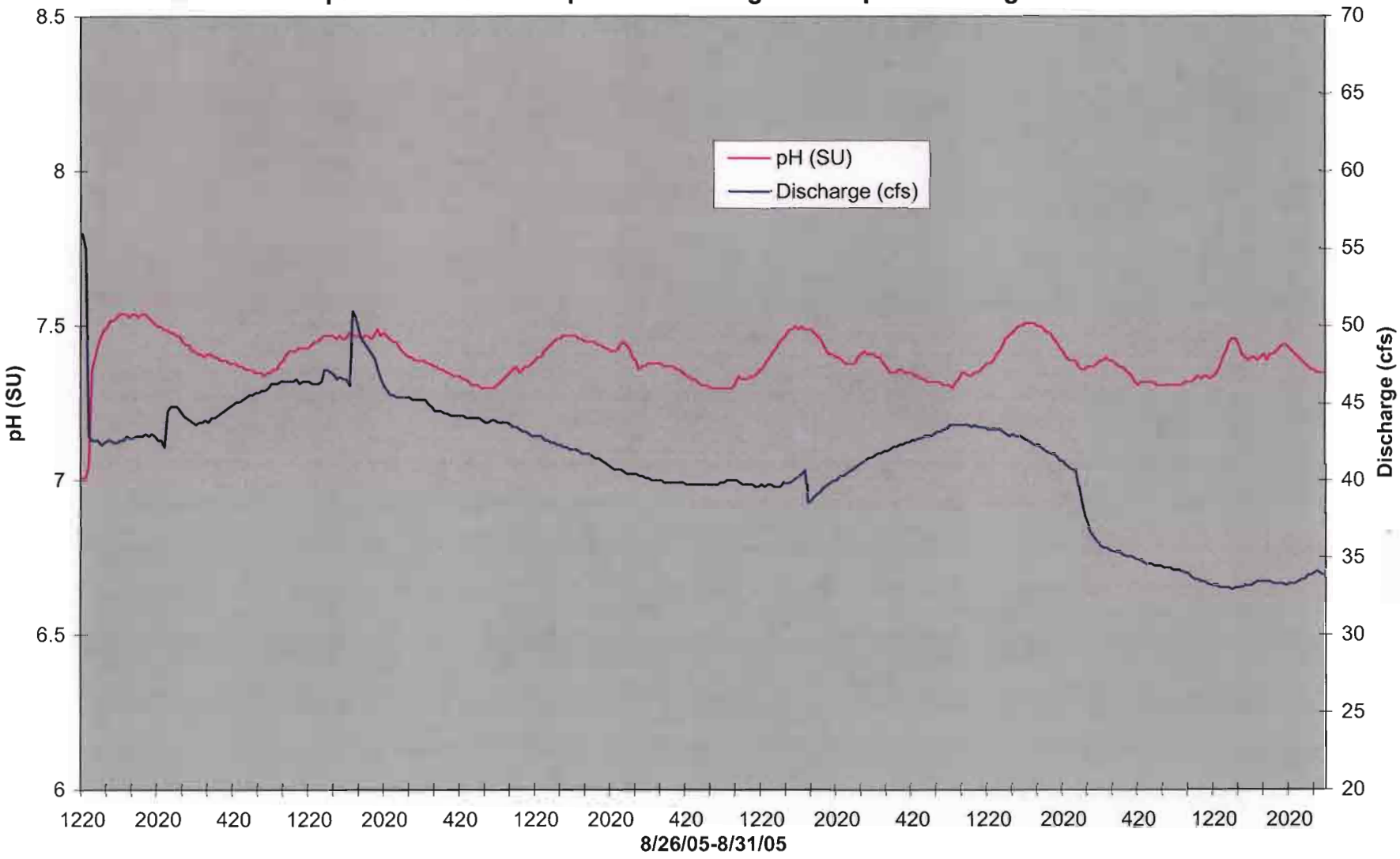
Graph 2.2B: Brooks Tropical Monitoring Station Rain\Discharge vs Time



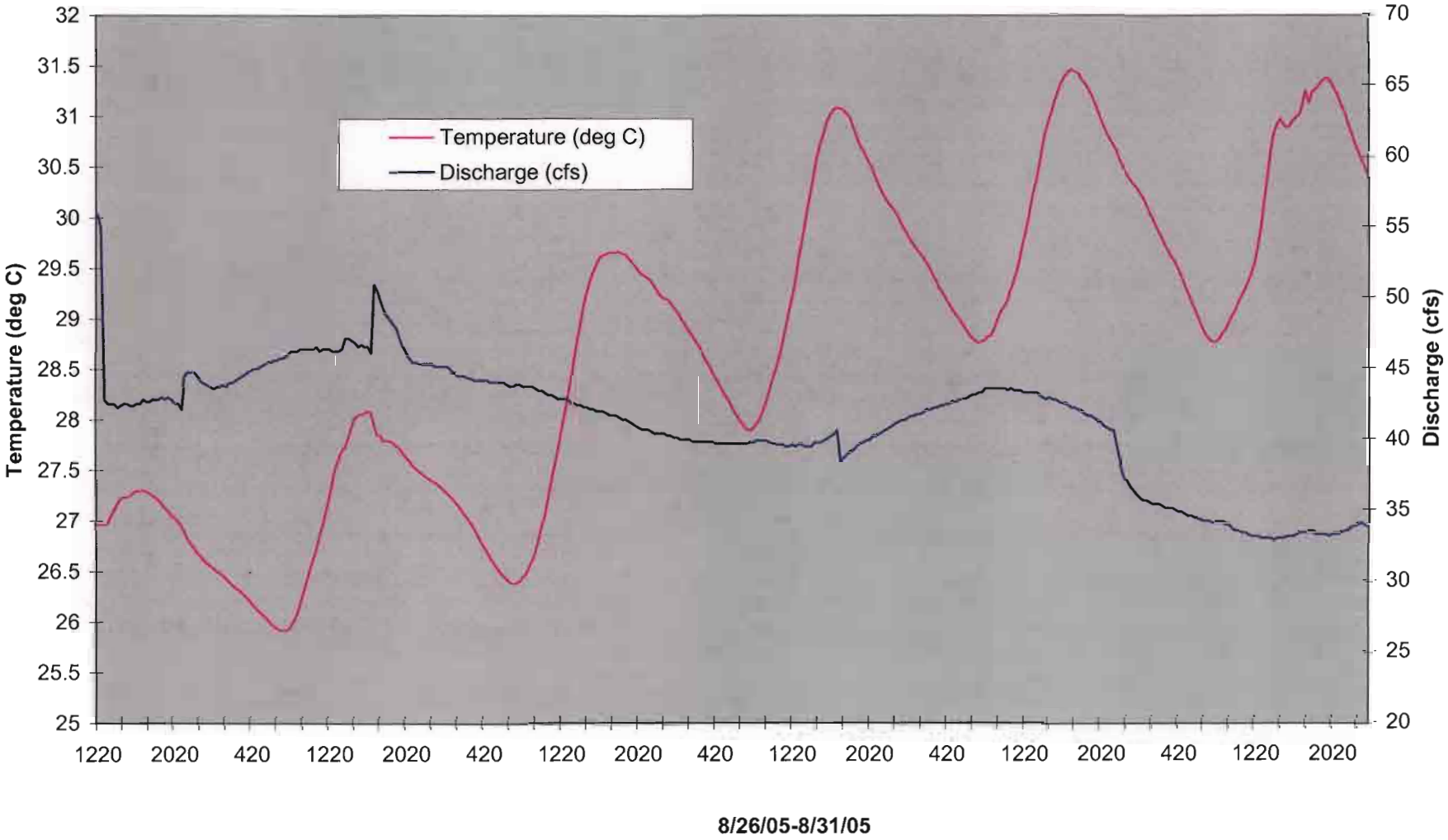
Graph 2.3B: Brooks Tropical Monitoring Station Stage\Groundwater Elevation vs Time



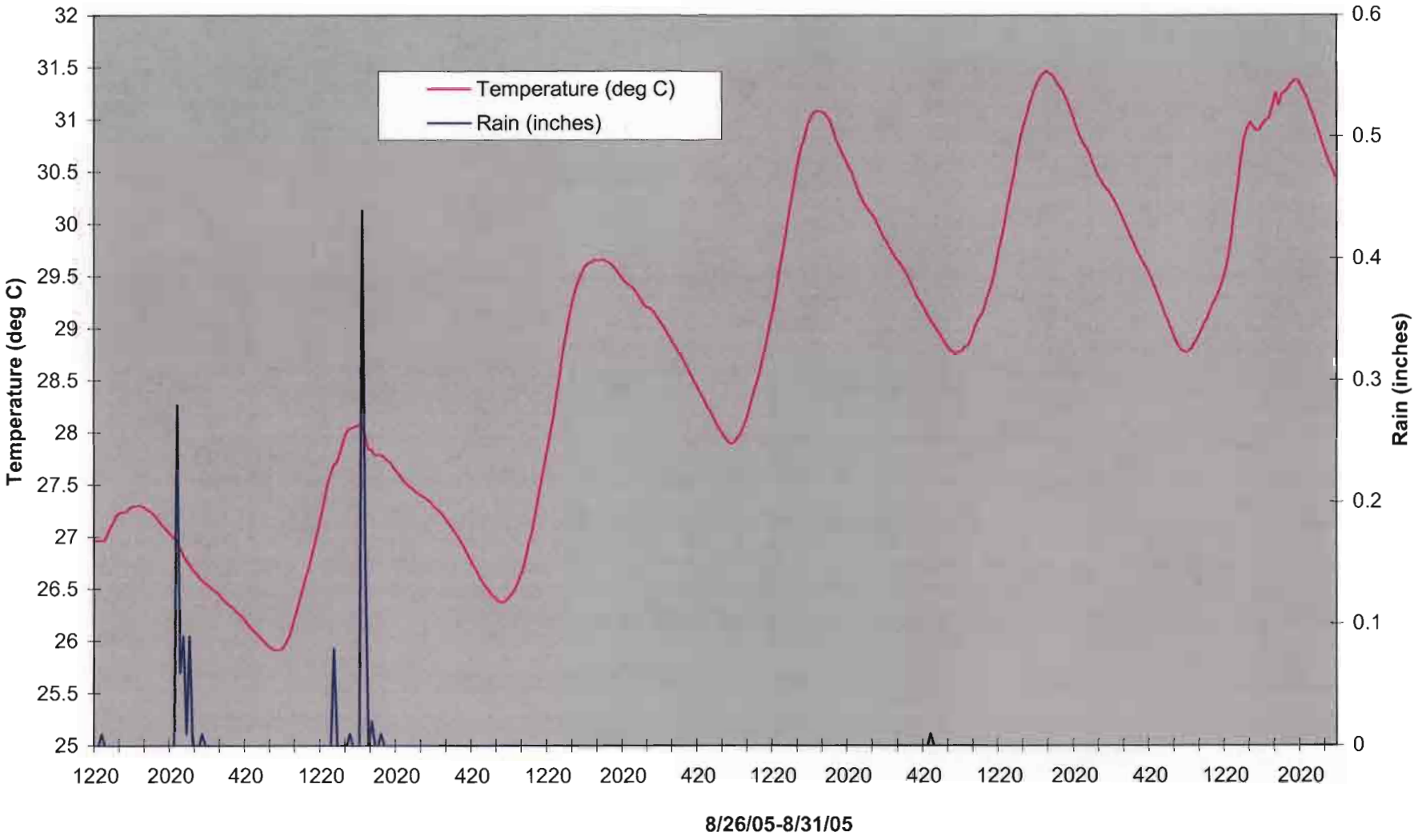
Graph 2.4B: Brooks Tropical Monitoring Station pH\ Discharge vs Time



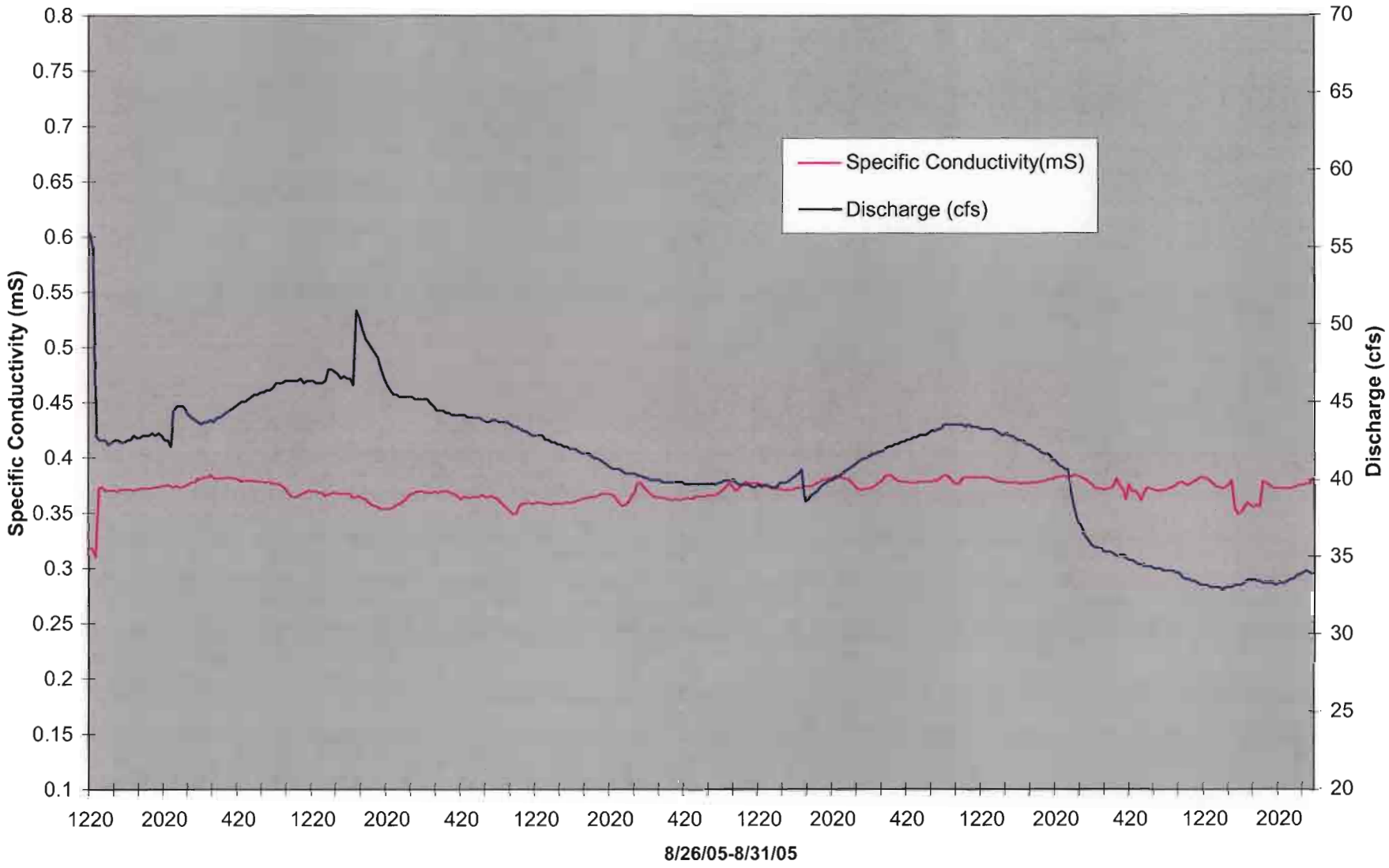
Graph 2.5B: Brooks Tropical Street Monitoring Station Temperature\ Discharge vs Time



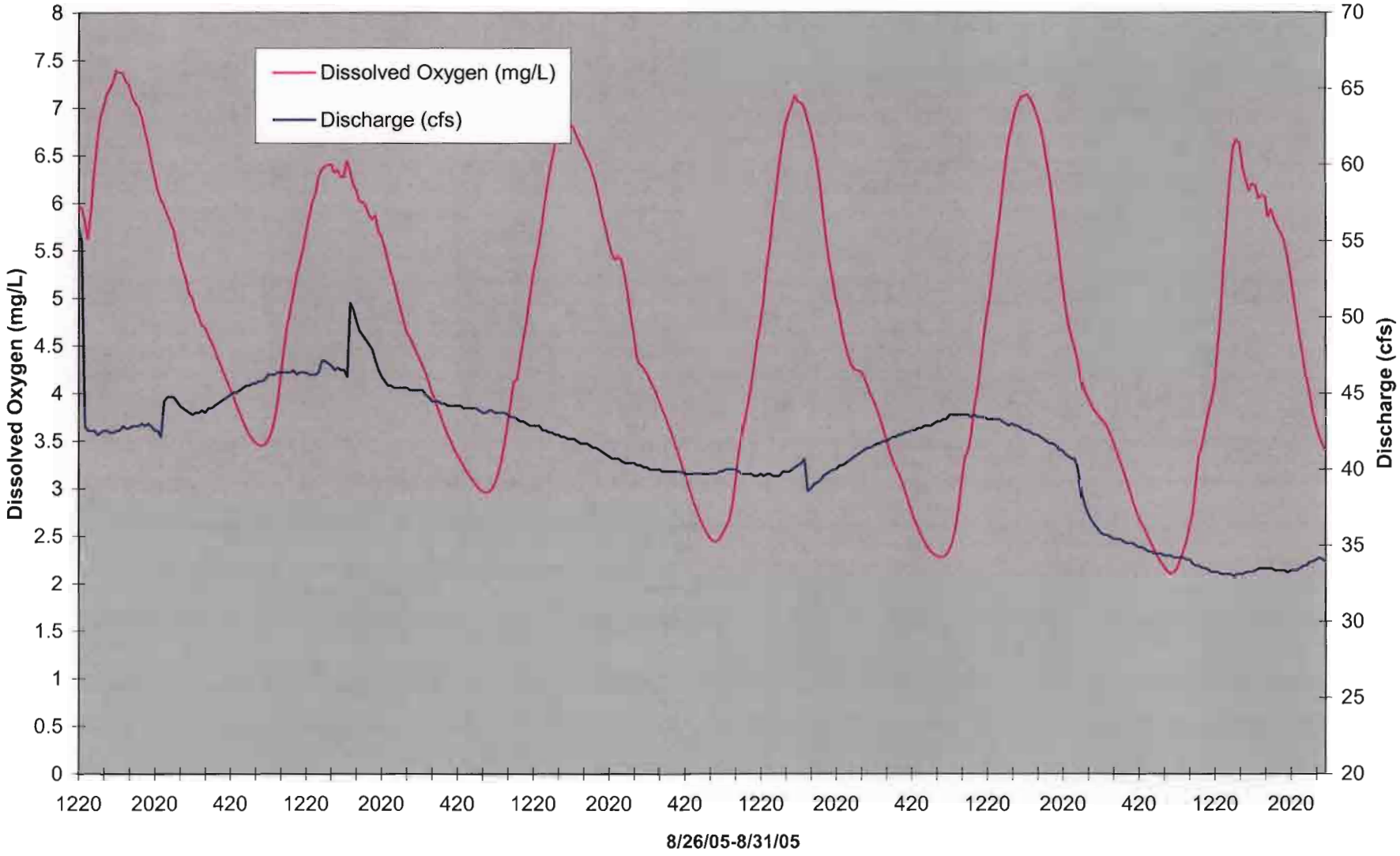
Graph 2.6B: Brooks Tropical Street Monitoring Station Temperature\ Discharge vs Time



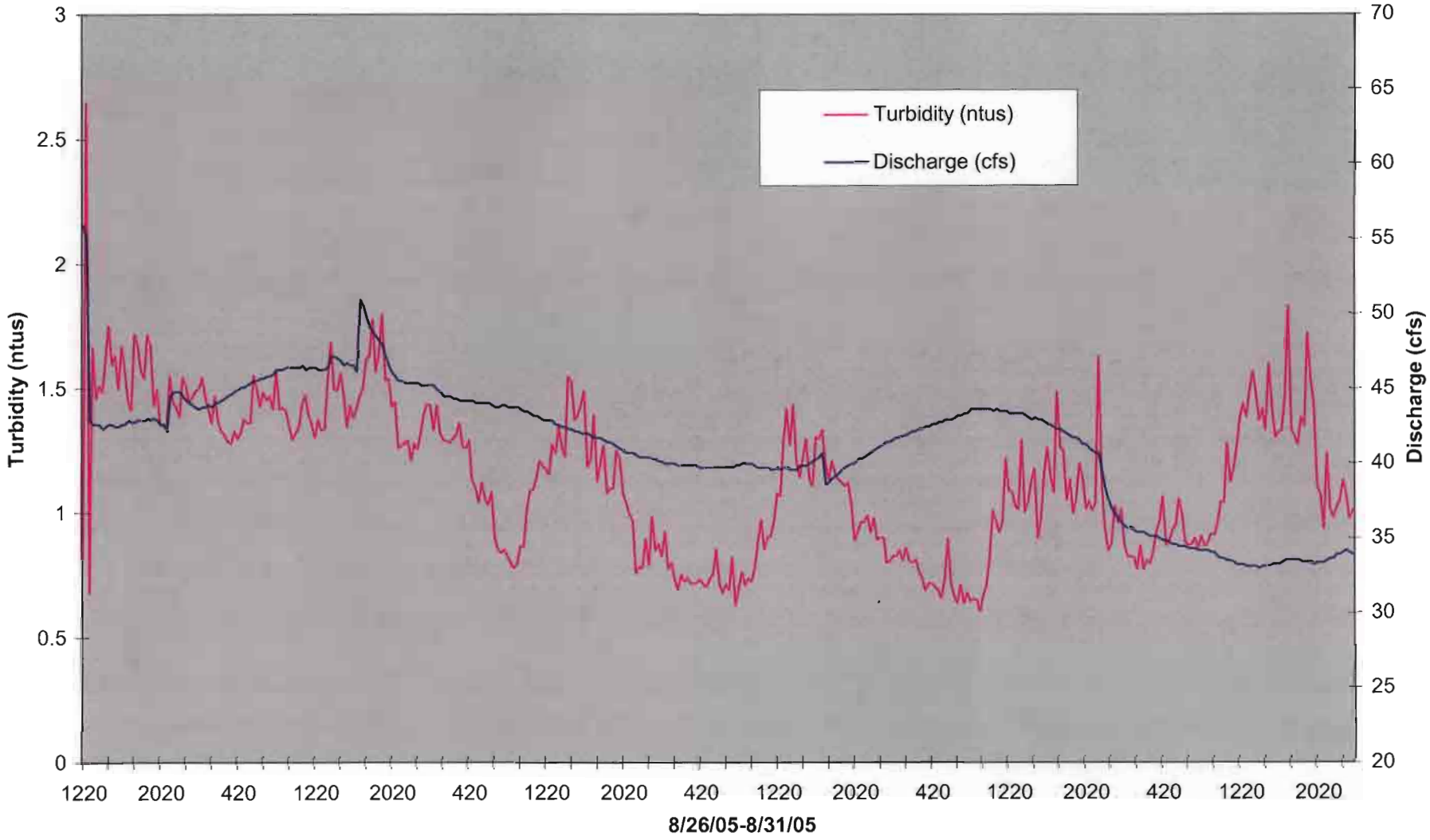
Graph 2.7B: Brooks Tropical Monitoring Station Conductivity\ Discharge vs Time



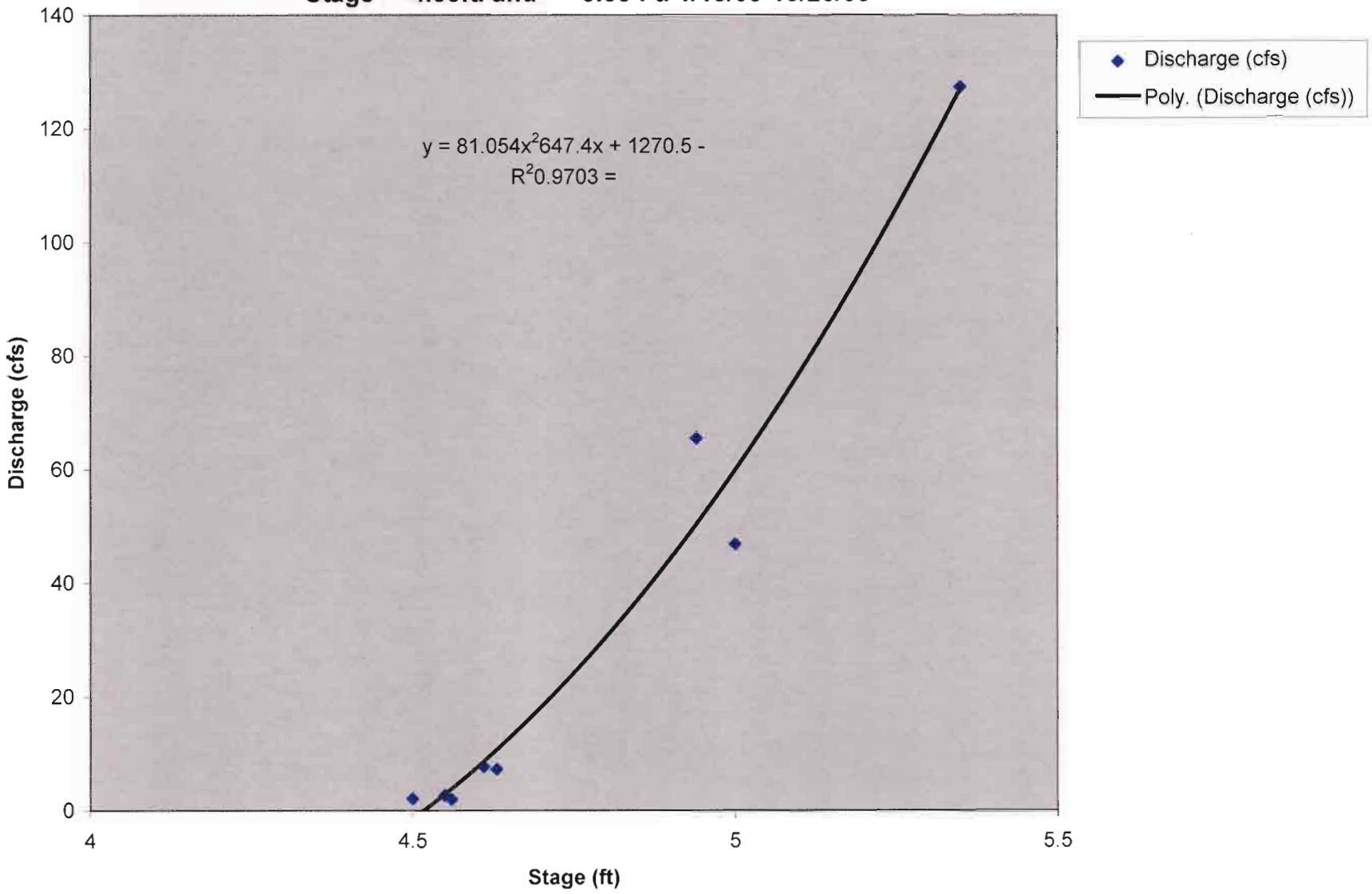
Graph 2.8B: Brooks Tropical Monitoring Station Dissolved Oxygen\ Discharge vs Time



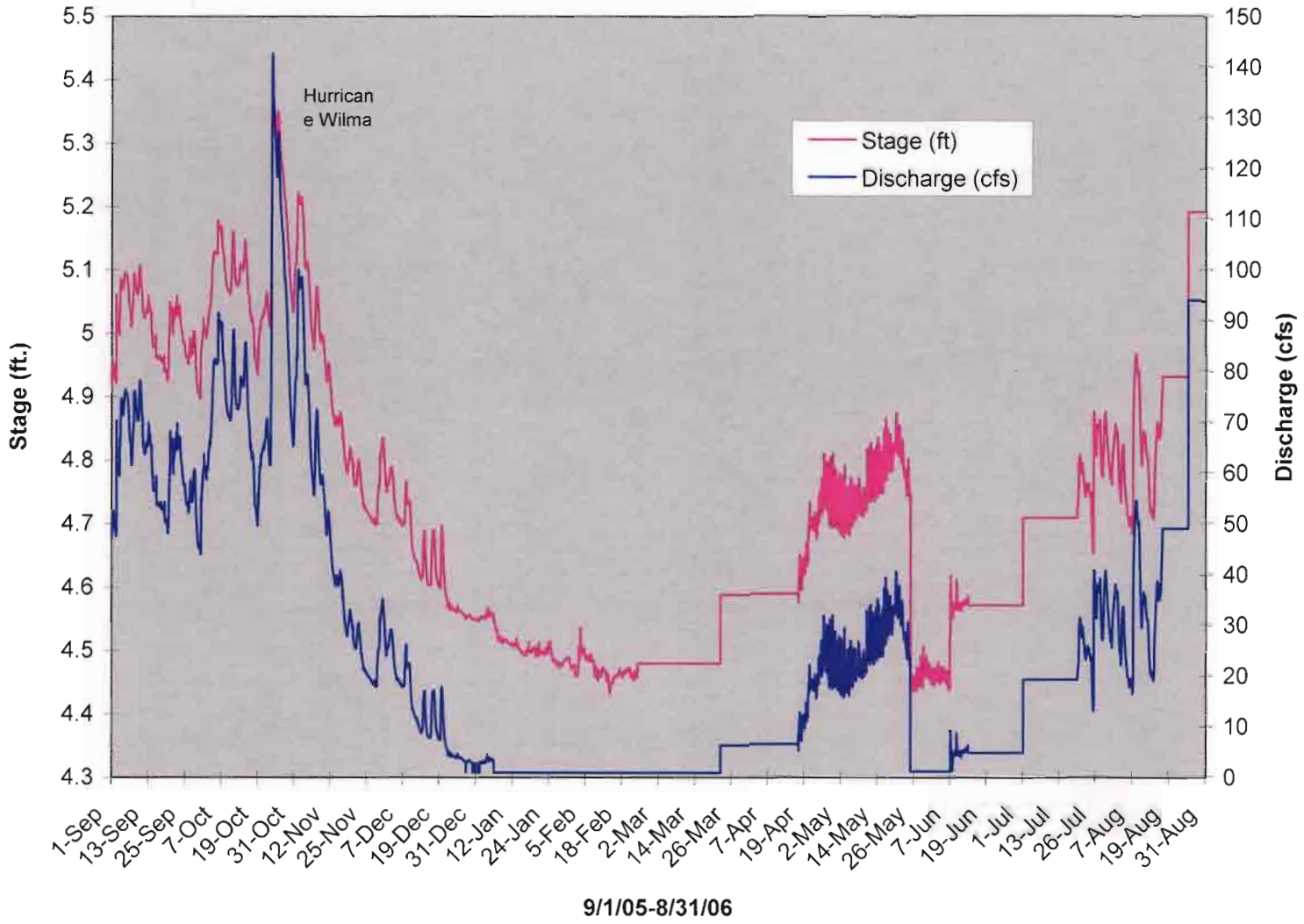
Graph 2.9B: Brooks Tropical Monitoring Station Turbidity\ Discharge vs Time



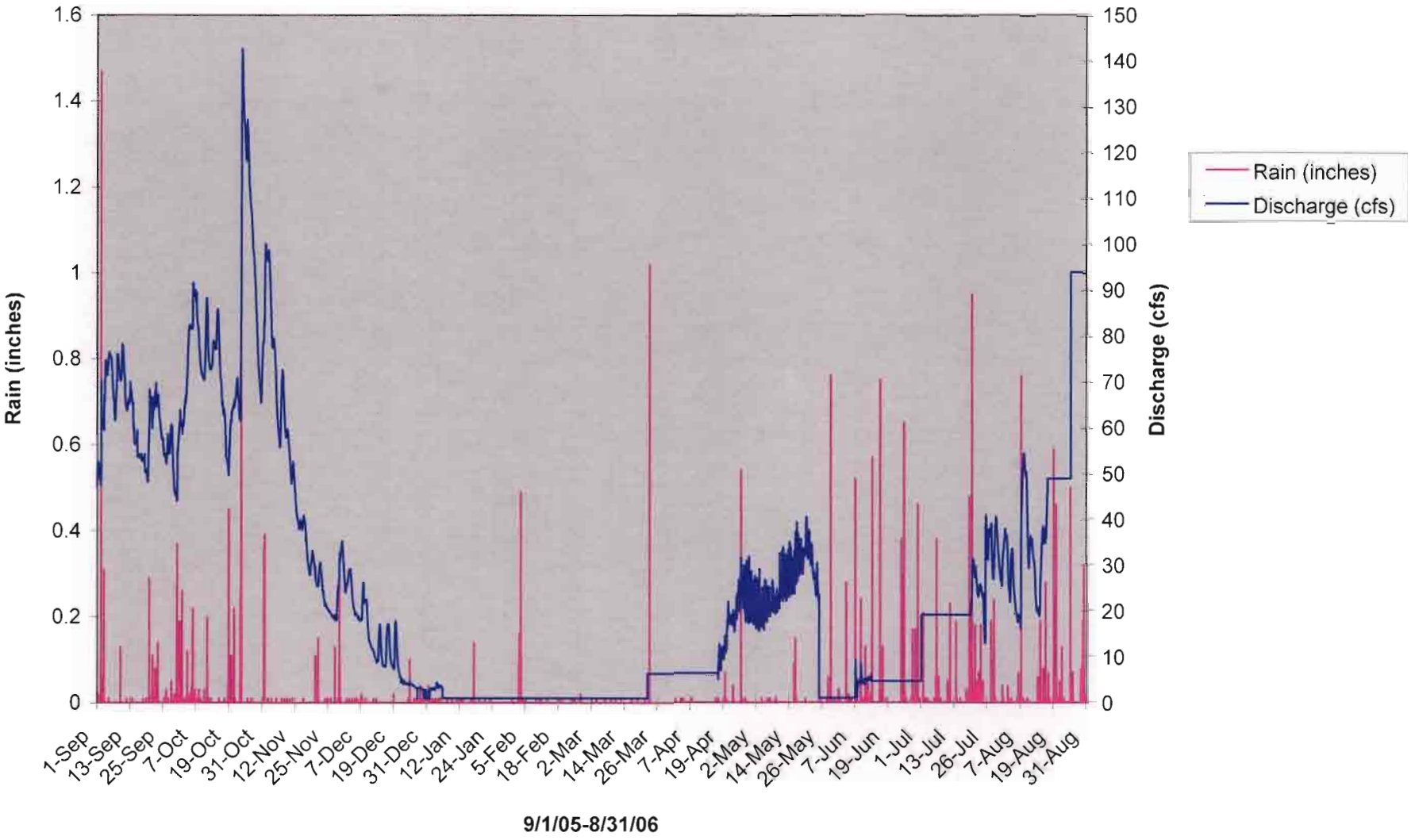
Graph 2.1C: Brooks Tropical Monitoring Station Discharge vs Stage Calibration Curve for Stage >=4.55ft. and <= 5.35 Ft. 1/13/03-10/26/05



Graph 2.2C: Brooks Tropical Monitoring Station Stage\Discharge vs Time

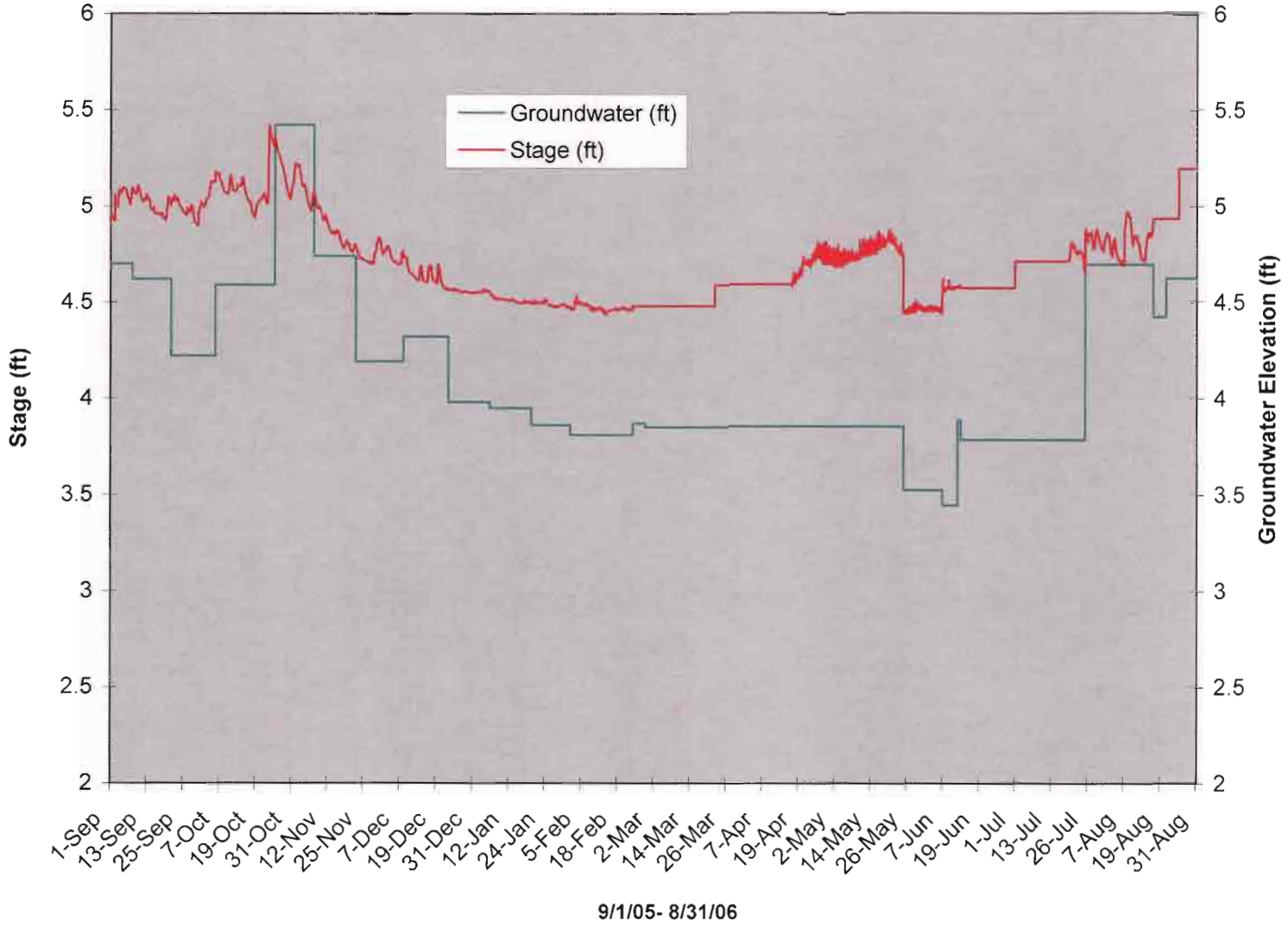


Graph 2.3C: Brooks Tropical Monitoring Station Rain\Stage vs Time

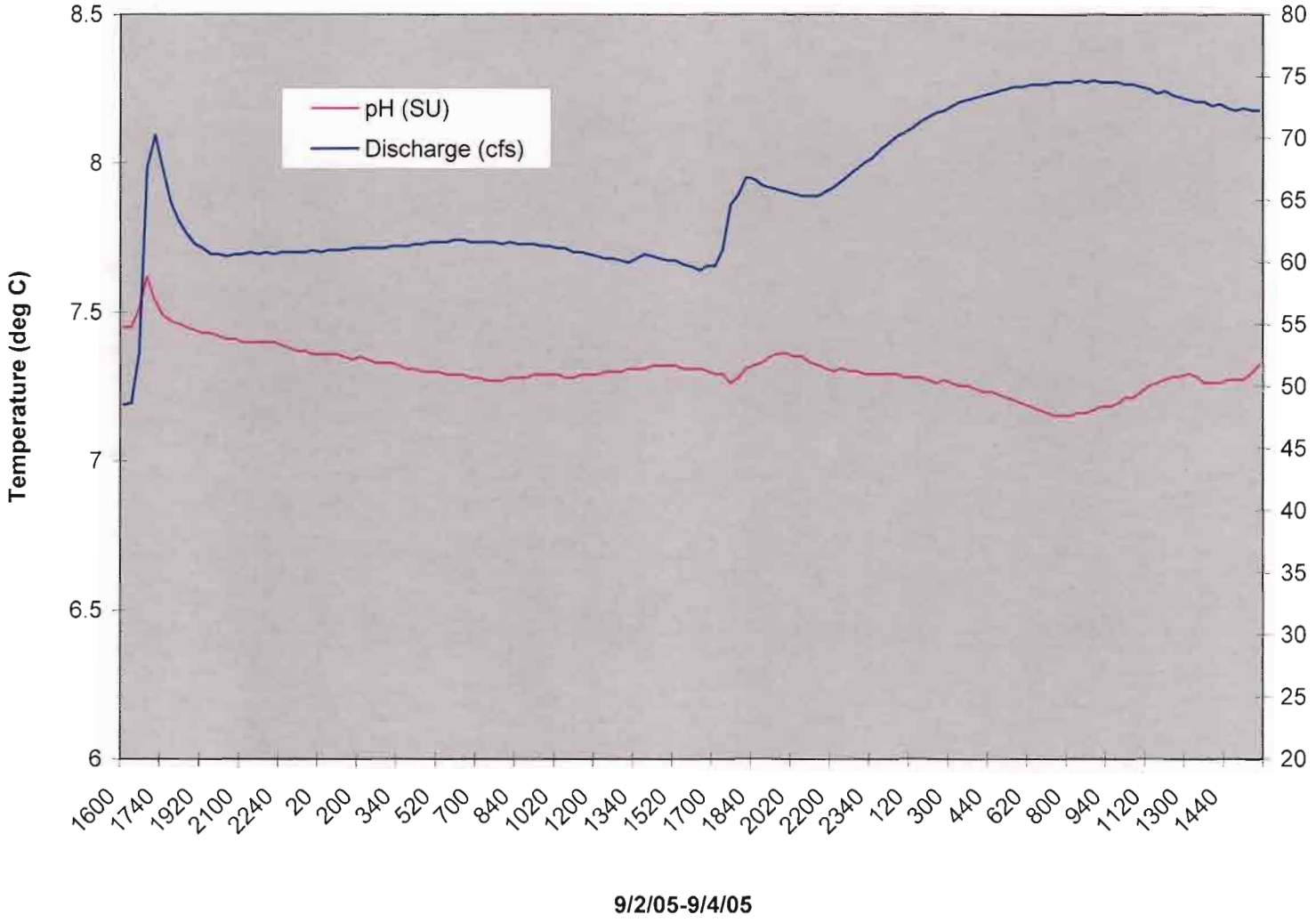


9/1/05-8/31/06

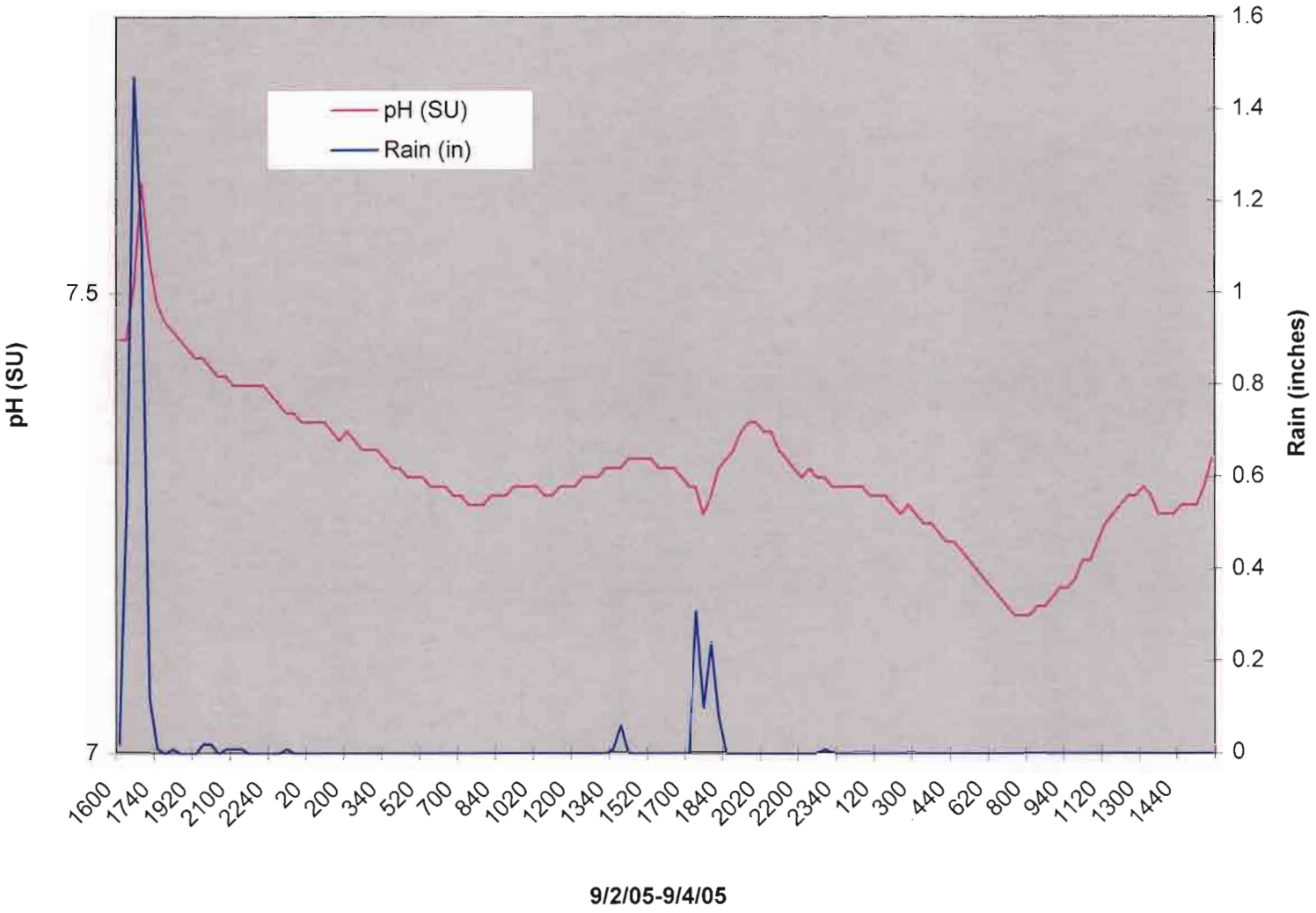
Graph 2.4C: Brooks Tropical Monitoring Station Stage\Groundwater Elevation vs Time



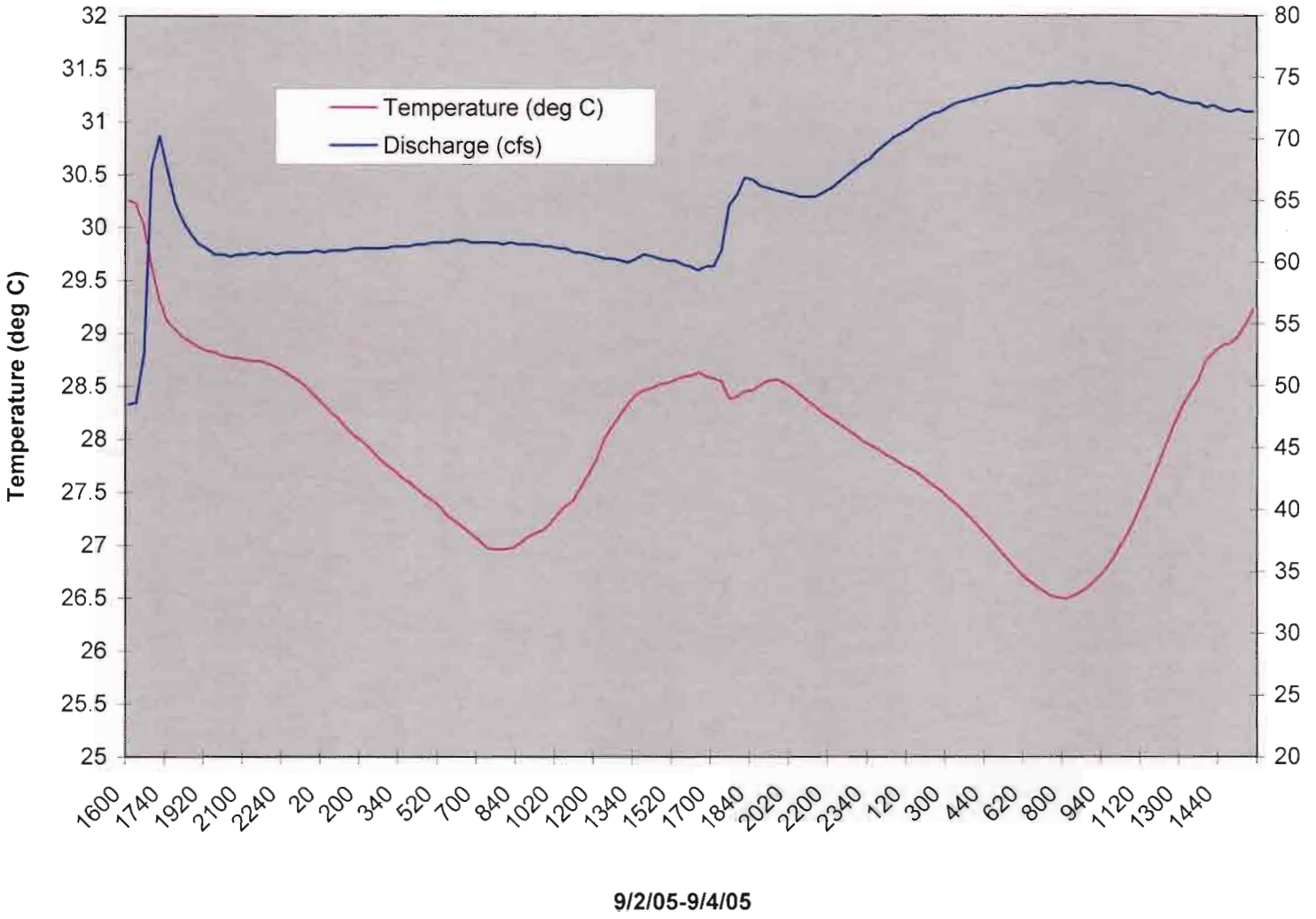
Graph 2.5C: Brooks Tropical Street Monitoring Station pH\ Discharge vs Time



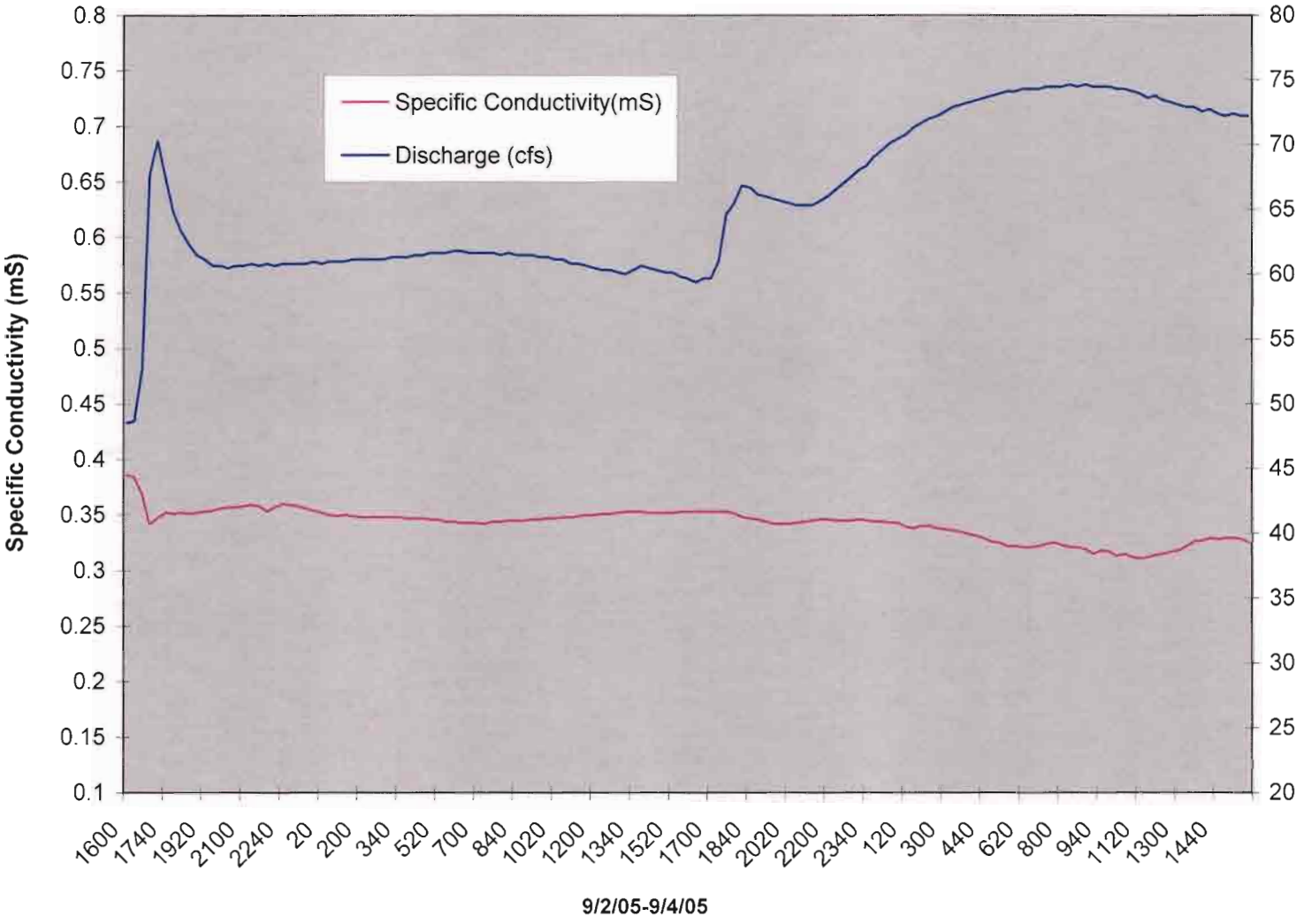
Graph 2.6C: Brooks Tropical Street Monitoring Station pH\ Rain vs Time



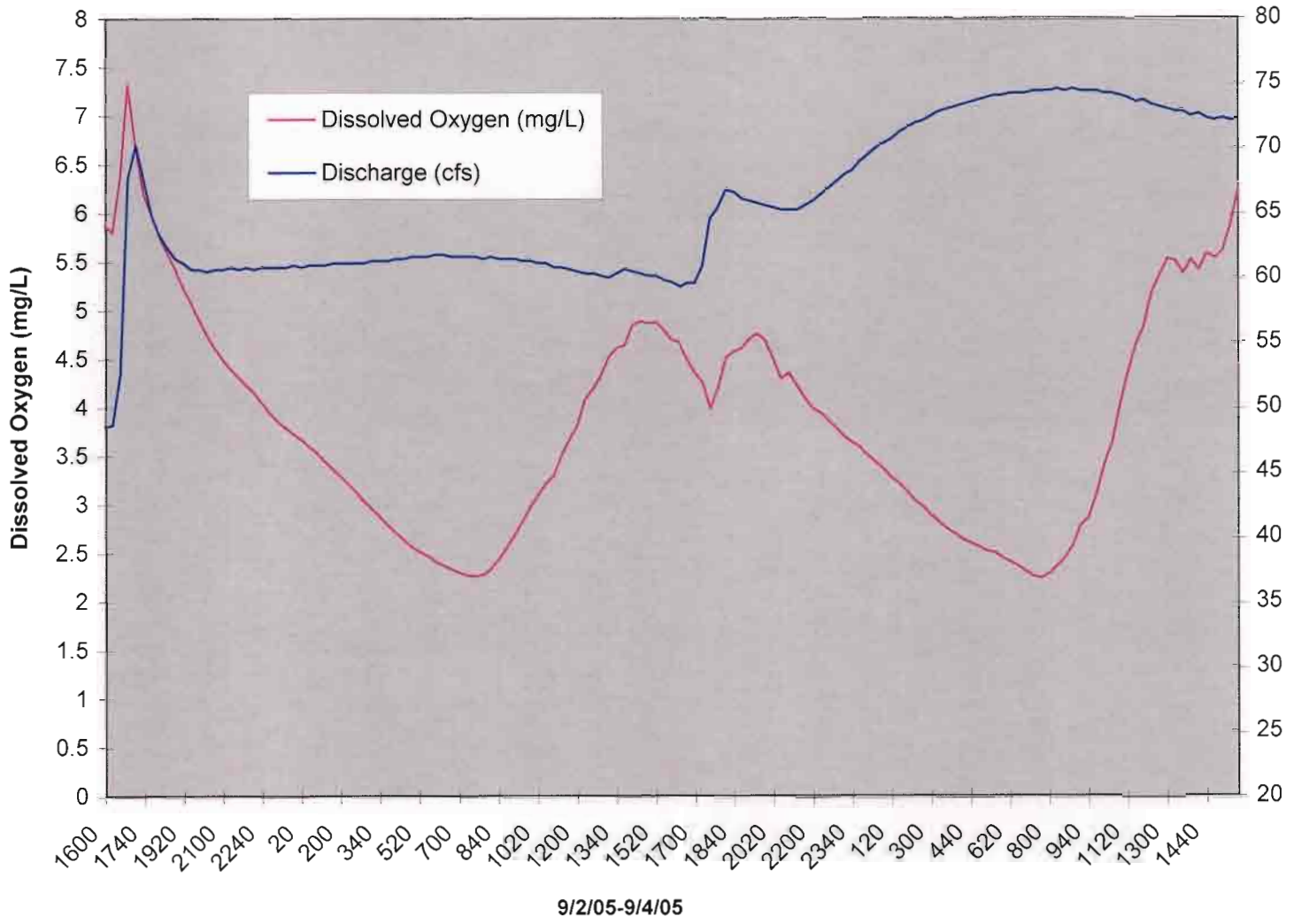
Graph 2.7C: Brooks Tropical Street Monitoring Station Temperature\ Discharge vs Time



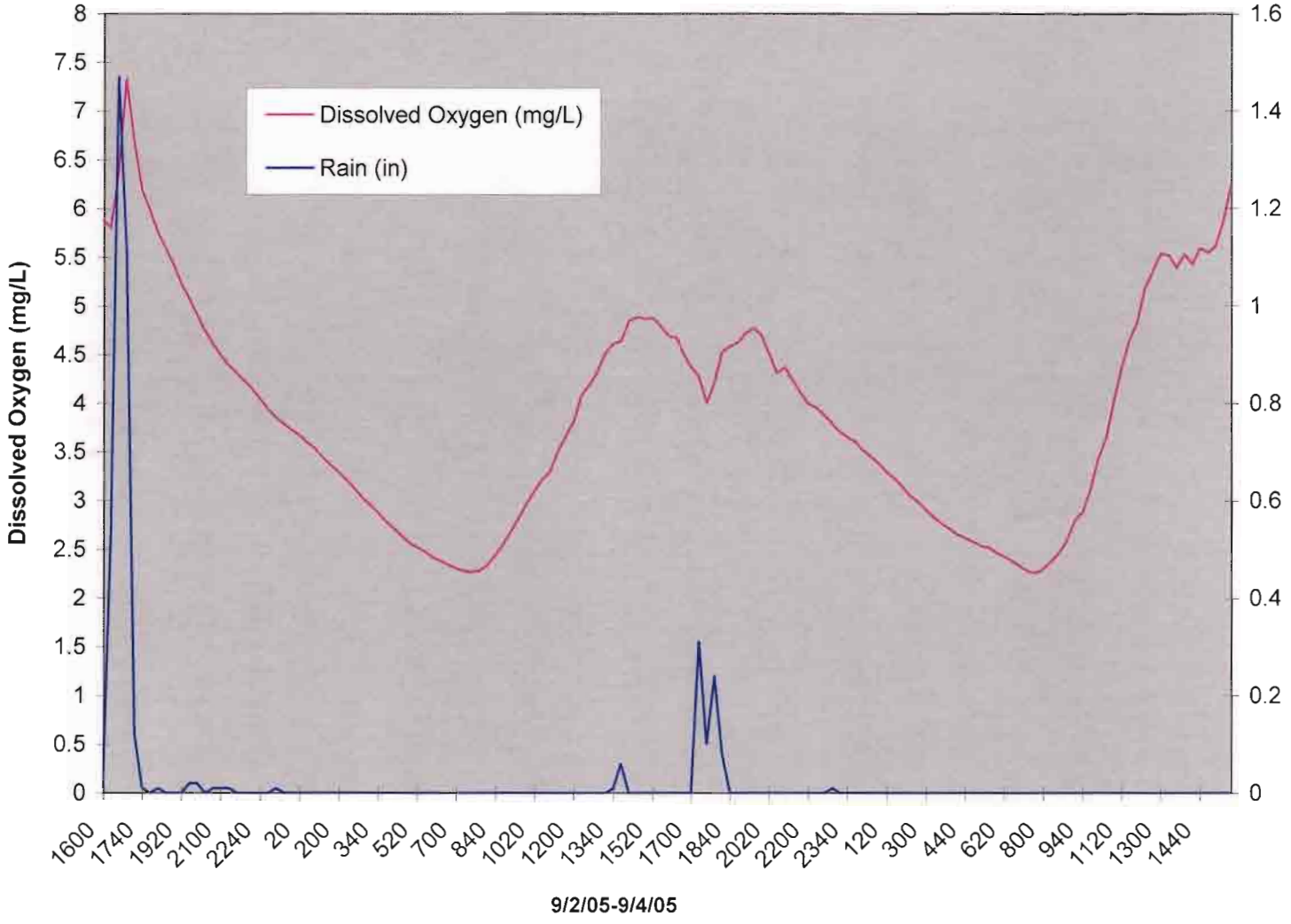
Graph 2.8C: Brooks Tropical Monitoring Station Conductivity\ Discharge vs Time



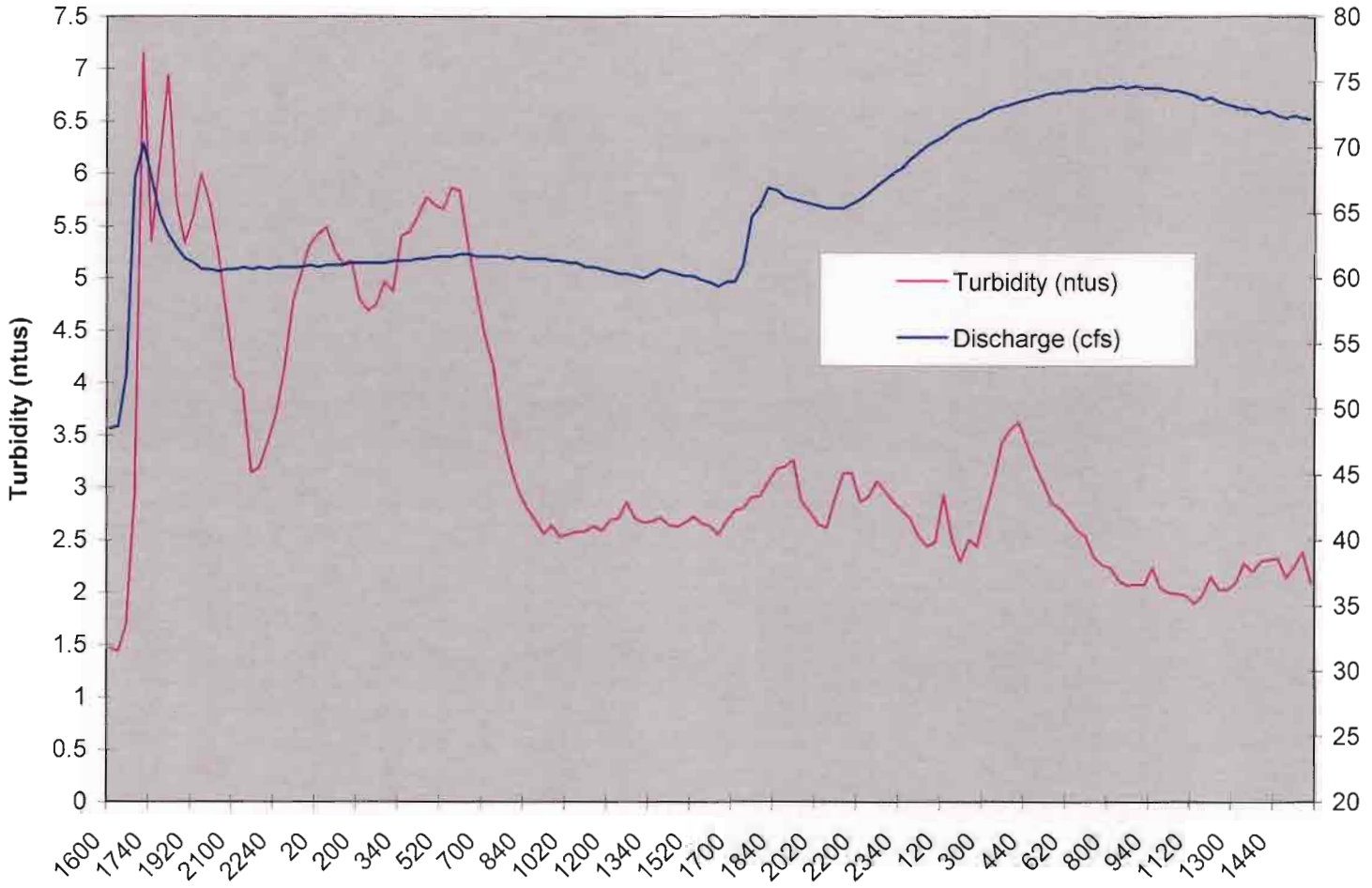
Graph 2.9C: Brooks Tropical Monitoring Station Dissolved Oxygen\ Discharge vs Time



Graph 2.10C: Brooks Tropical Monitoring Station Dissolved Oxygen\ Rain vs Time



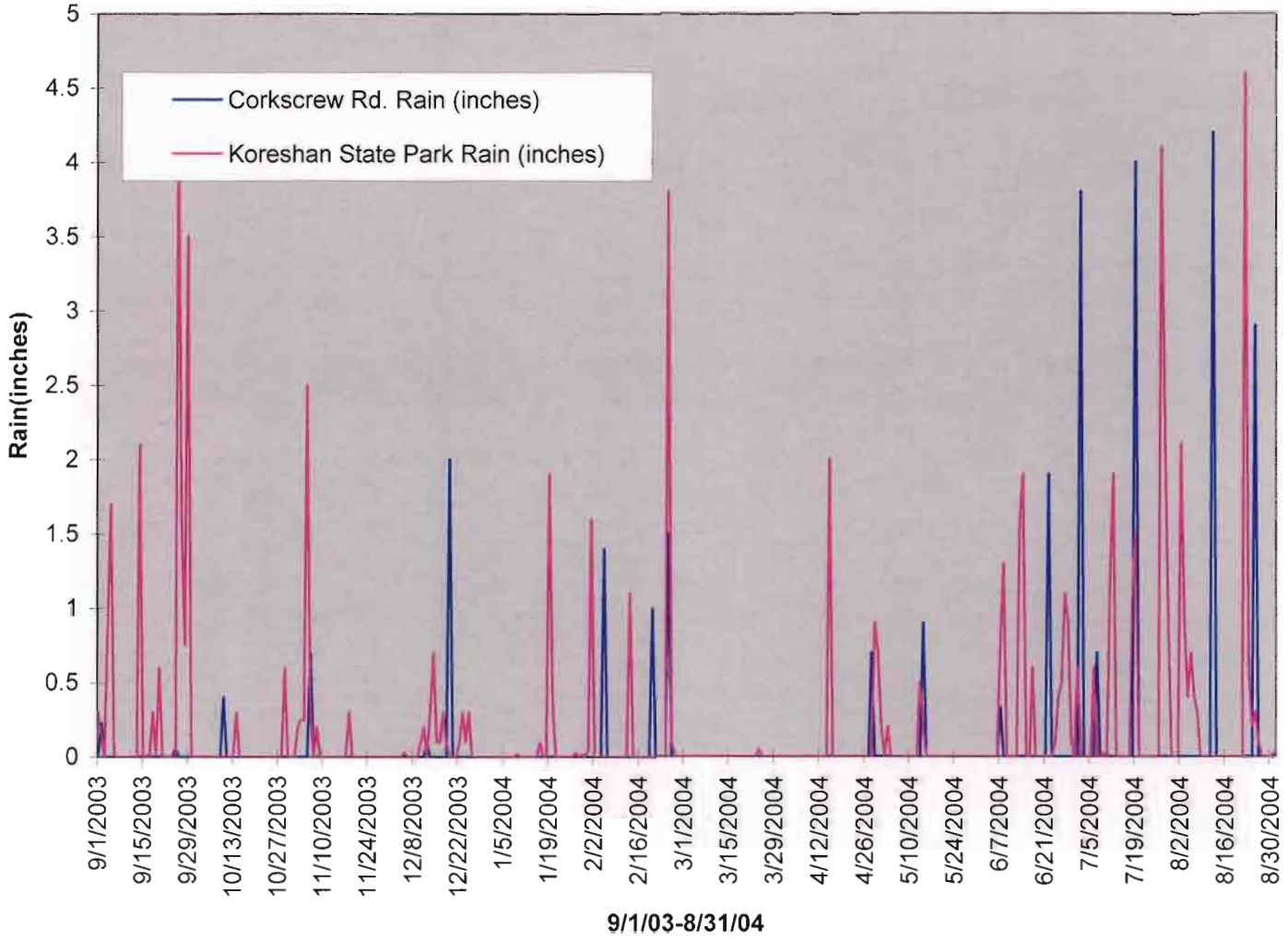
Graph 2.11C: Brooks Tropical Monitoring Station Turbidity\ Discharge vs Time



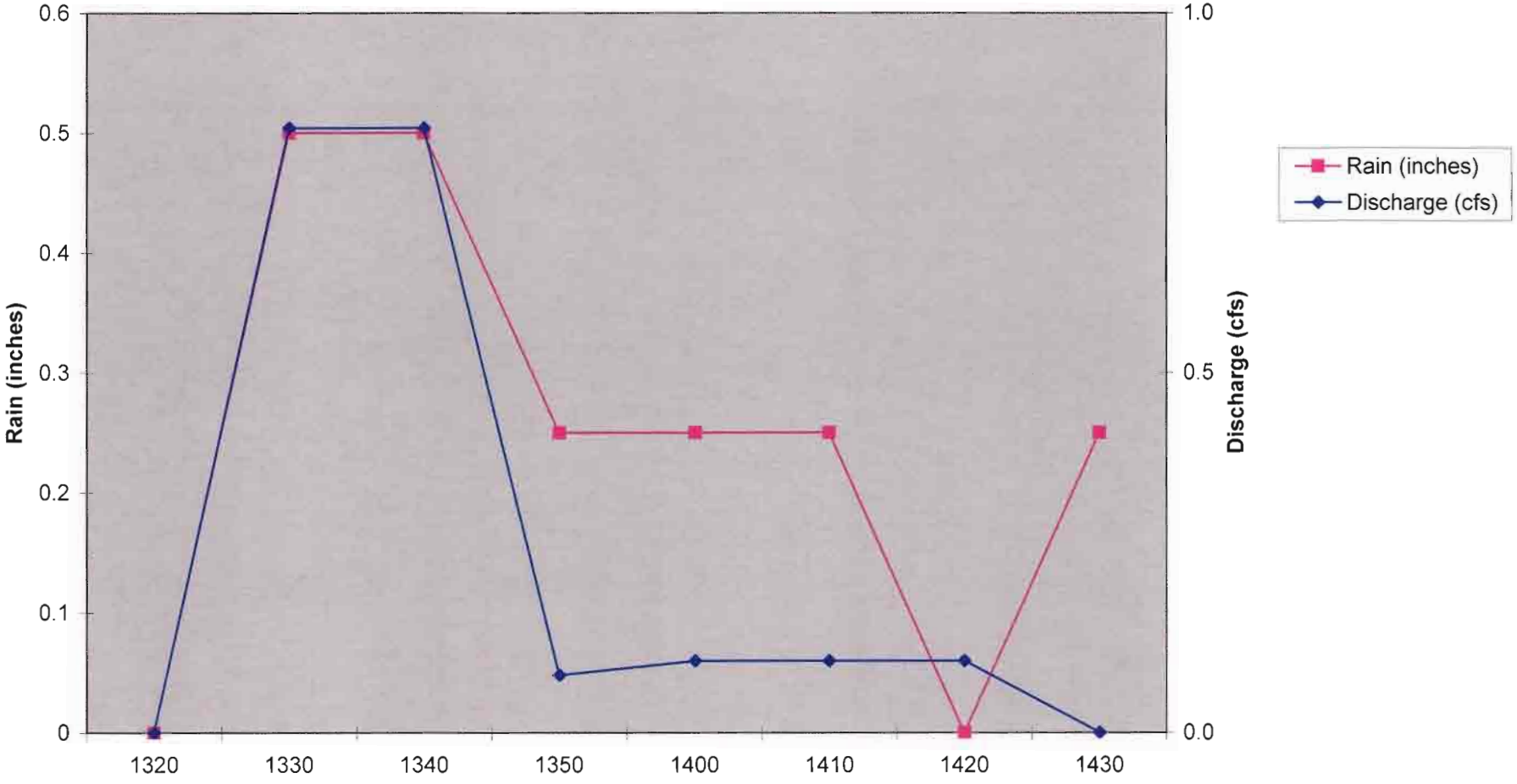
9/2/05-9/4/05

A.3 CORKSCREW ROAD GRAPHS

Graph 3.1A: Corkscrew Road & Koreshan State Park Rainfall Comparison

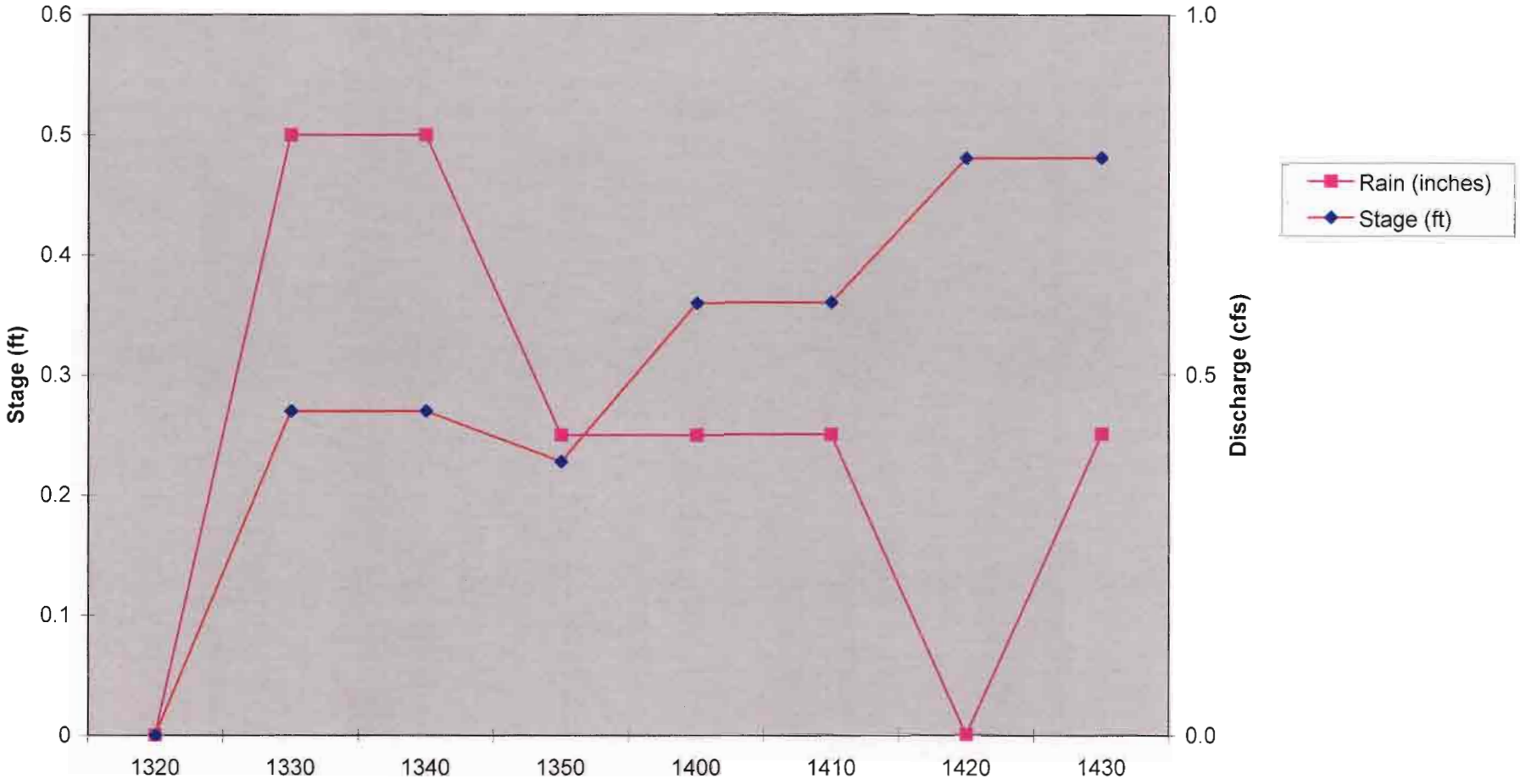


Graph 3.2A: Corkscrew Road Monitoring Station Rain\Discharge vs Time



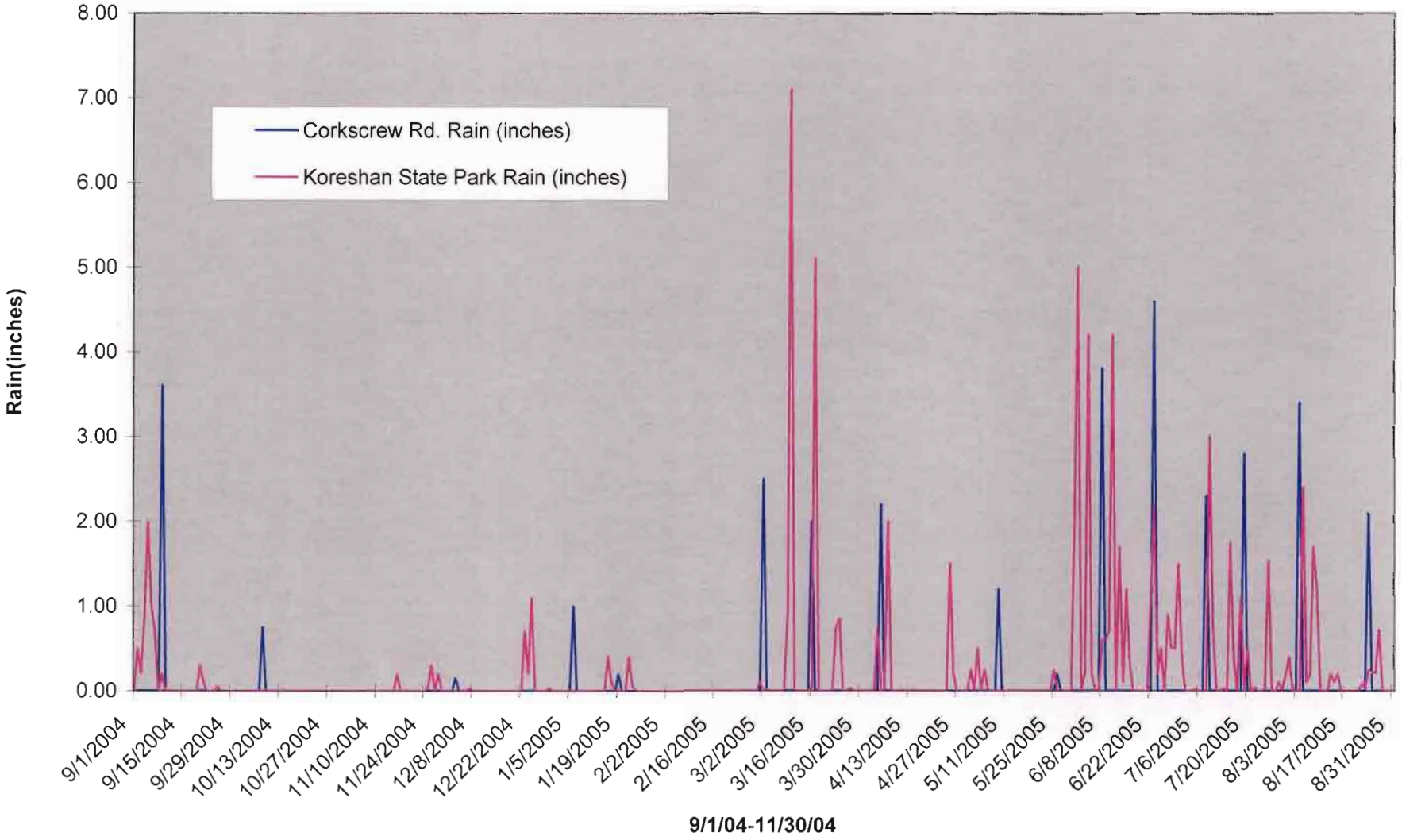
7/19/04

Graph 3.3A: Corkscrew Road Monitoring Station Stage\Discharge vs Time

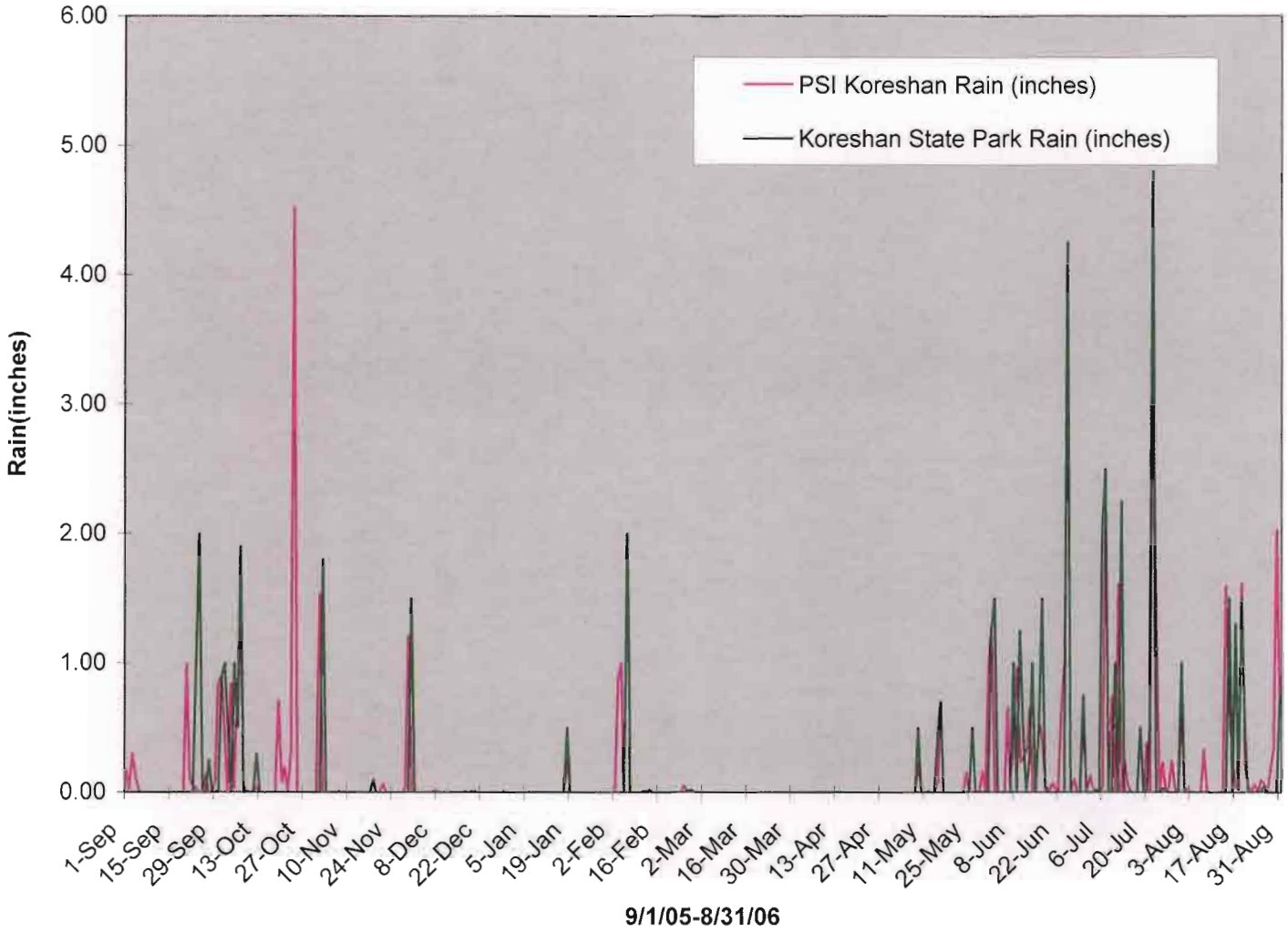


7/19/04

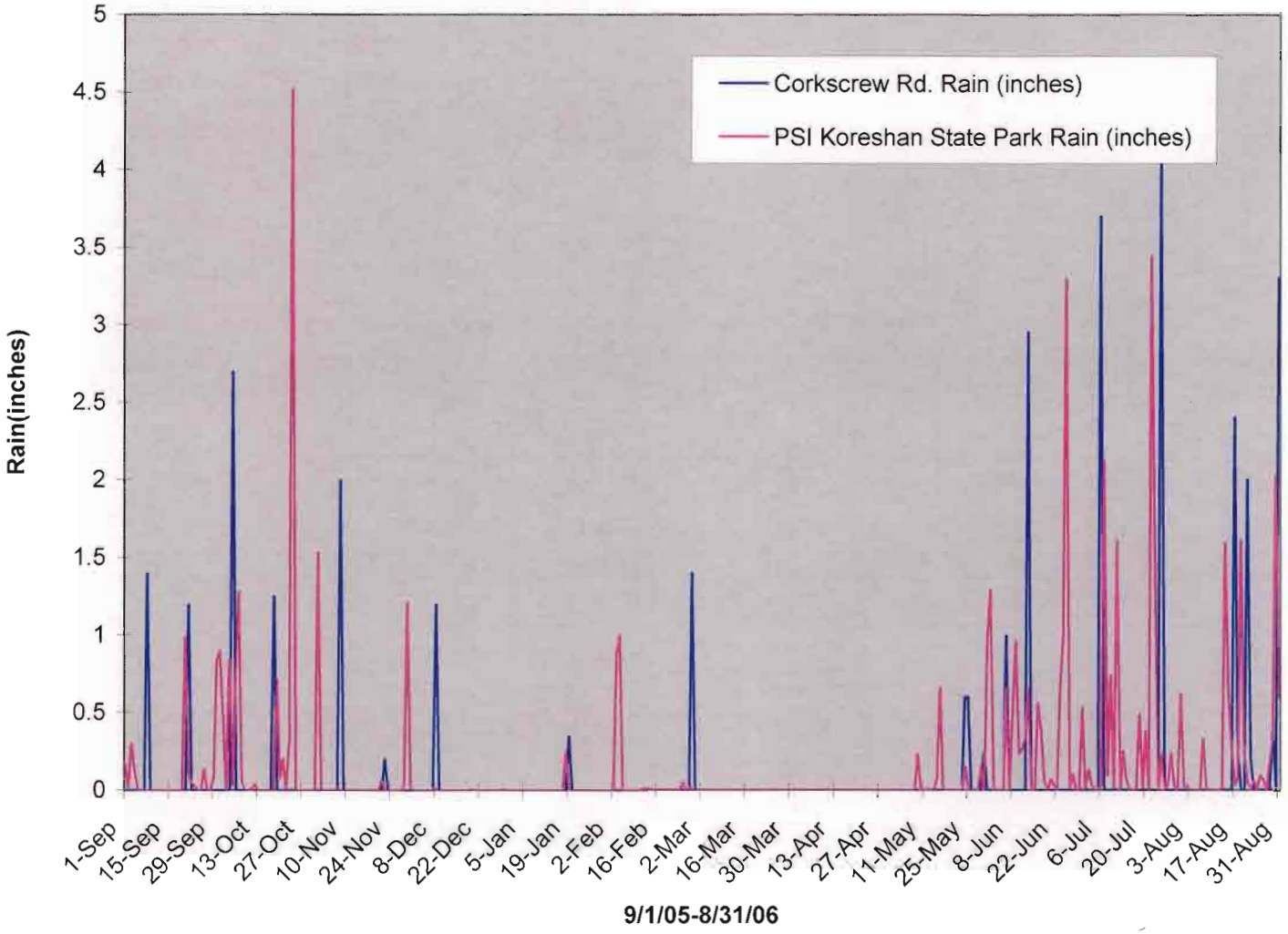
Graph 3.1B: Corkscrew Road & Koreshan State Park Rainfall Comparison



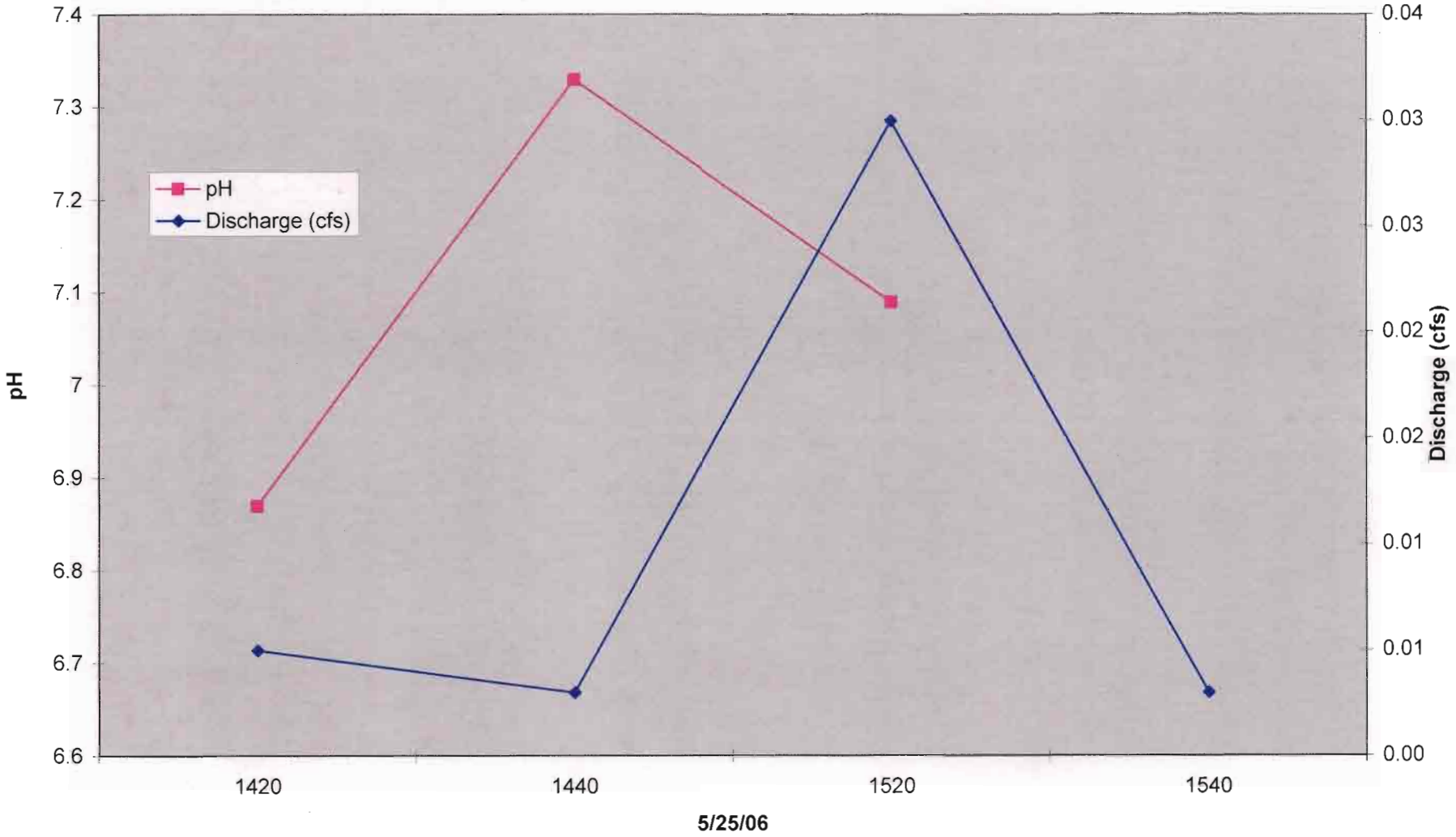
Graph 3.1C: PSI Koreshan & Koreshan State Park Rainfall Comparison



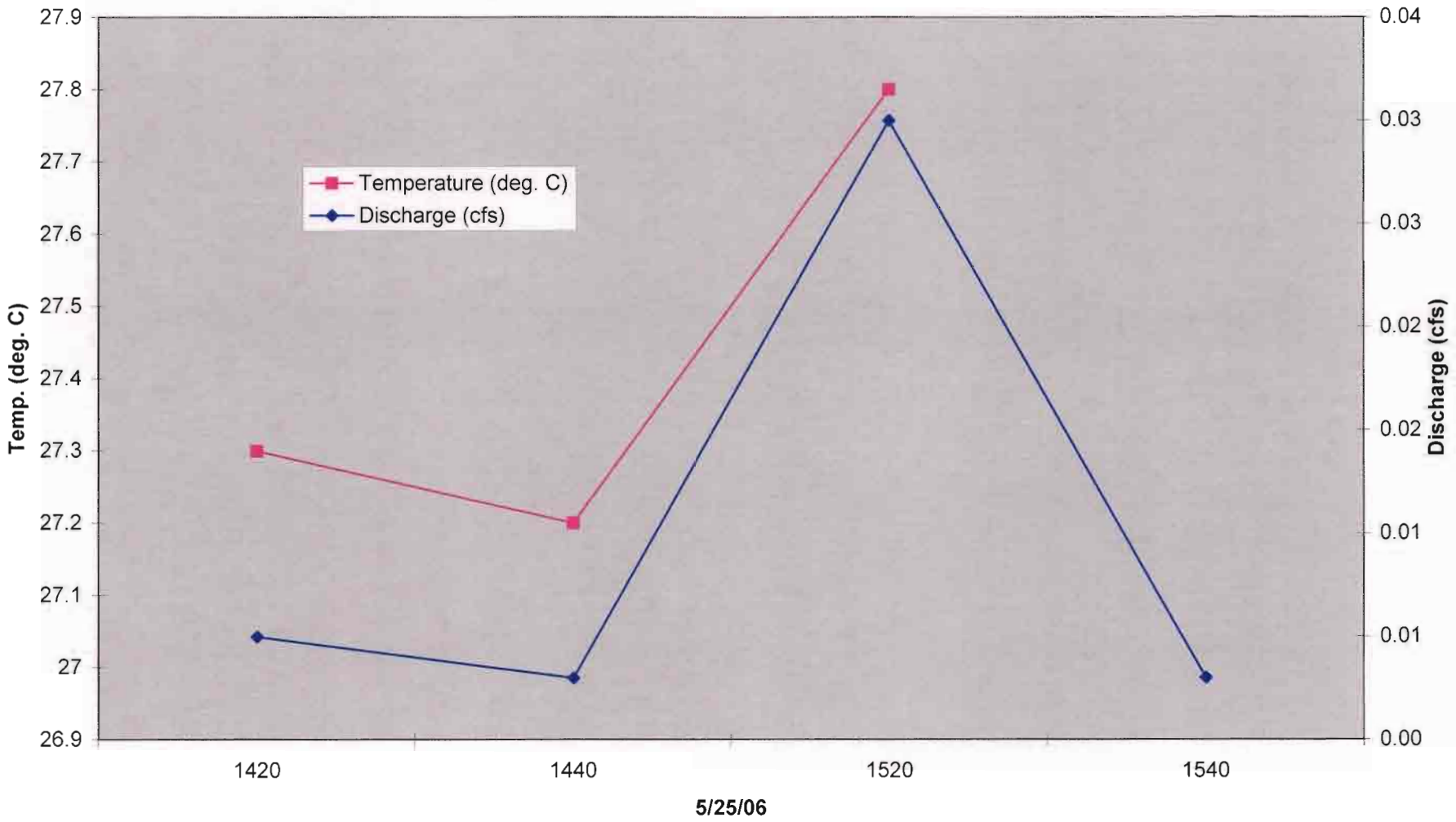
Graph 3.2C: Corkscrew Road & Koreshan State Park Rainfall Comparison



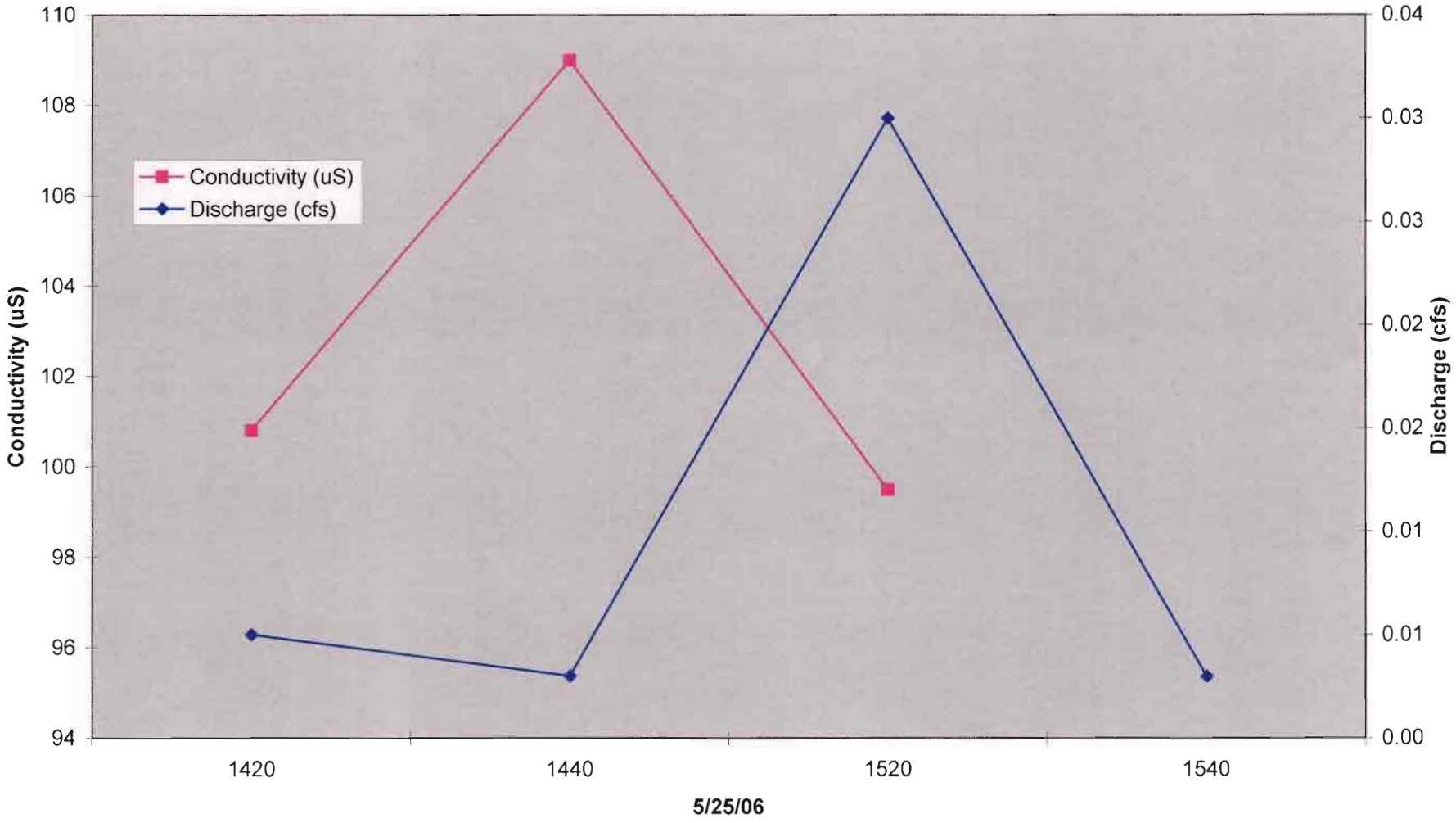
Graph 3.3C: Corkscrew Road Monitoring Station pH/Discharge vs. Time 5/25/06 Rain Event



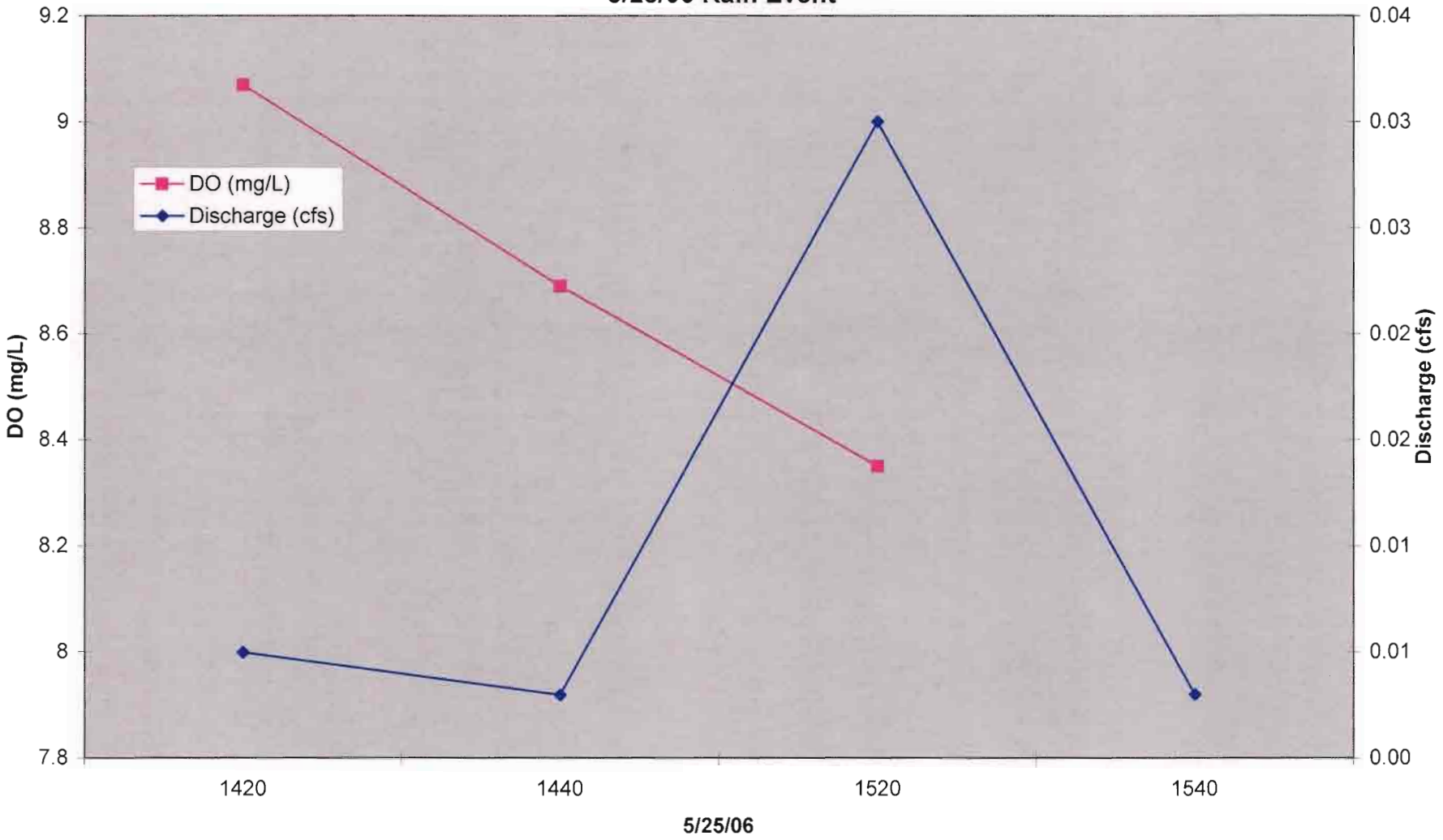
Graph 3.4C: Corkscrew Road Monitoring Station Temperature/Discharge vs. Time 5/25/06 Rain Event



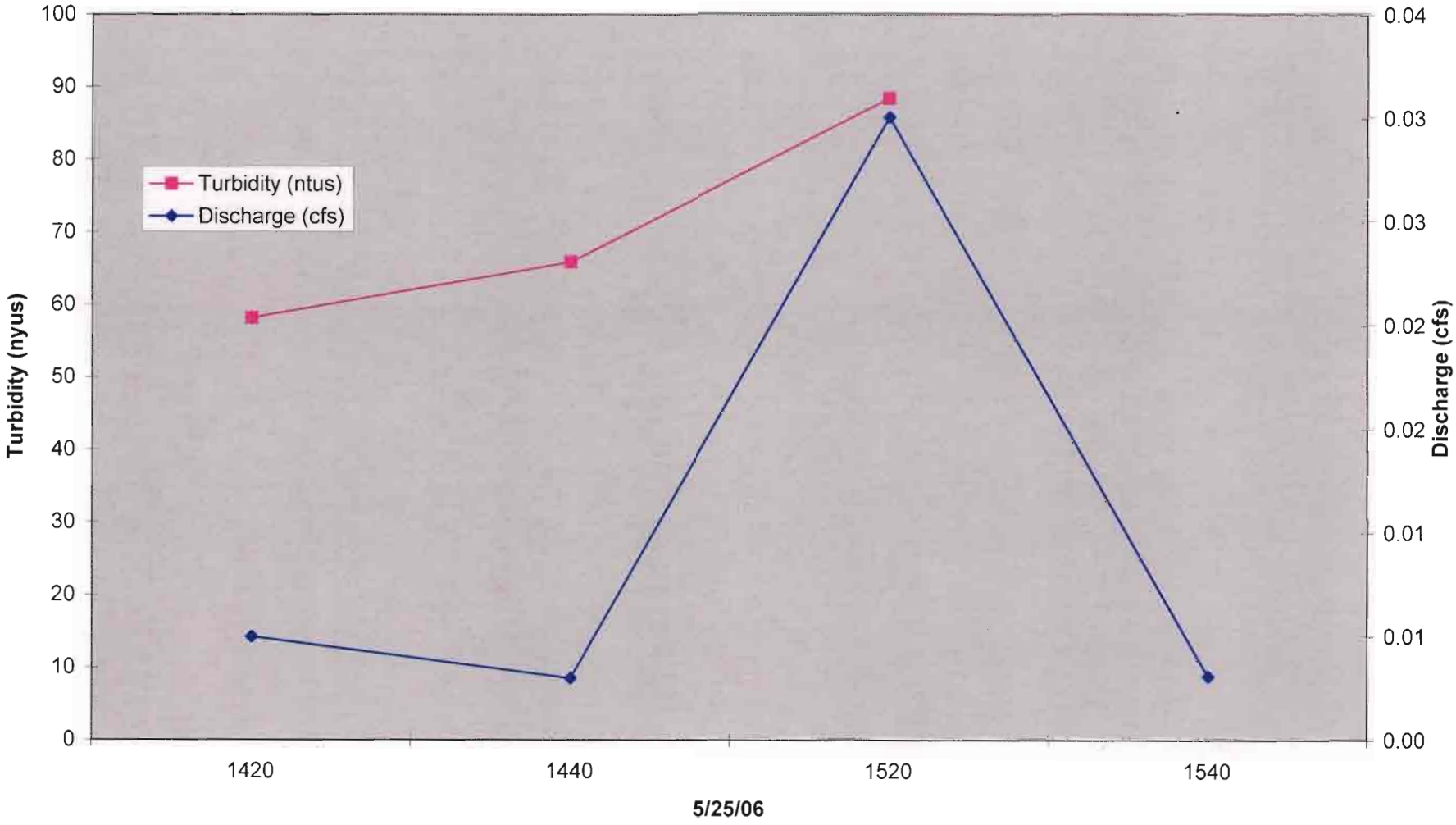
Graph 3.5C: Corkscrew Road Monitoring Station Conductivity/Discharge vs. Time 5/25/06 Rain Event



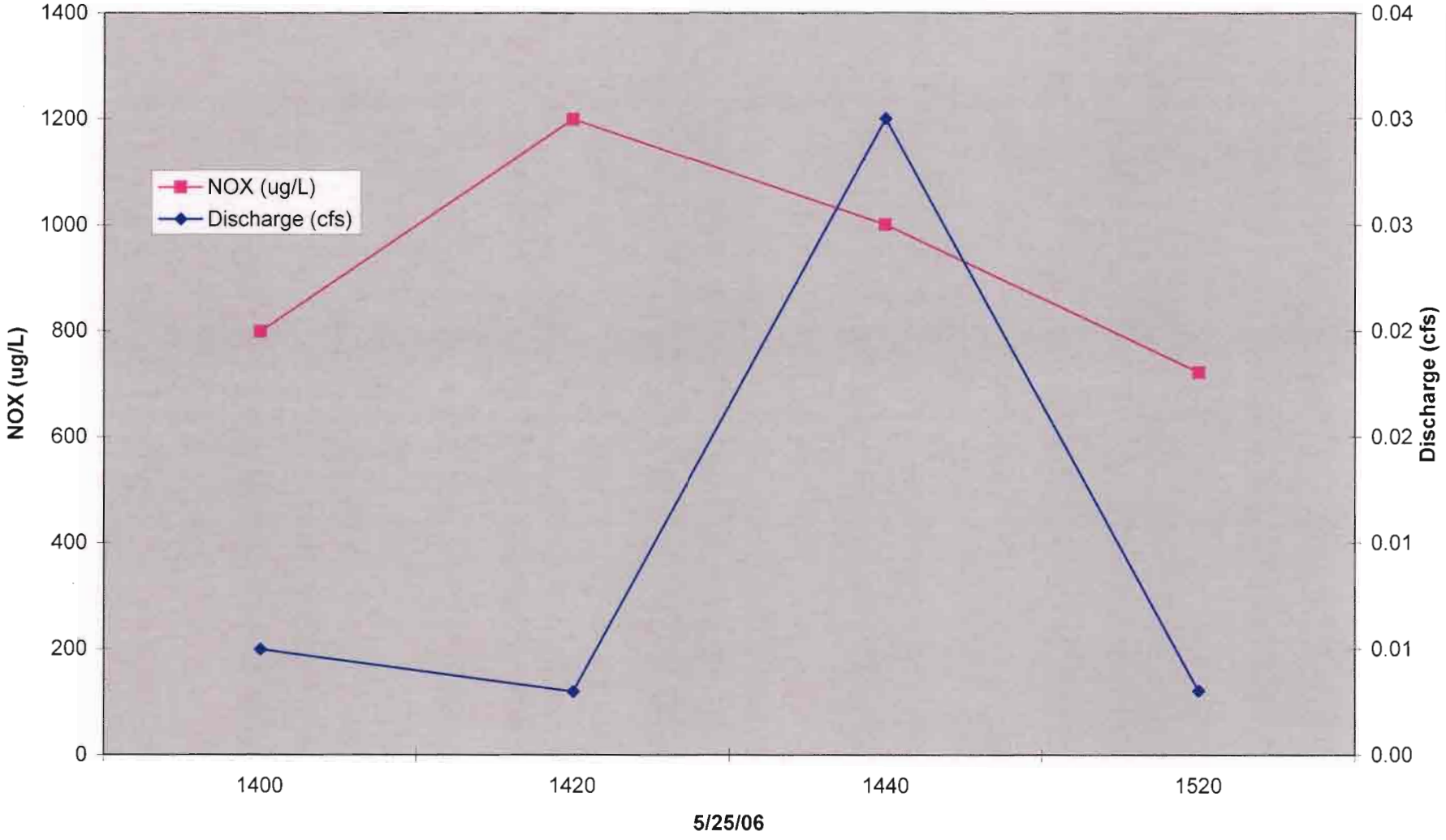
Graph 3.6C: Corkscrew Road Monitoring Station Dissolved Oxygen/Discharge vs. Time
5/25/06 Rain Event



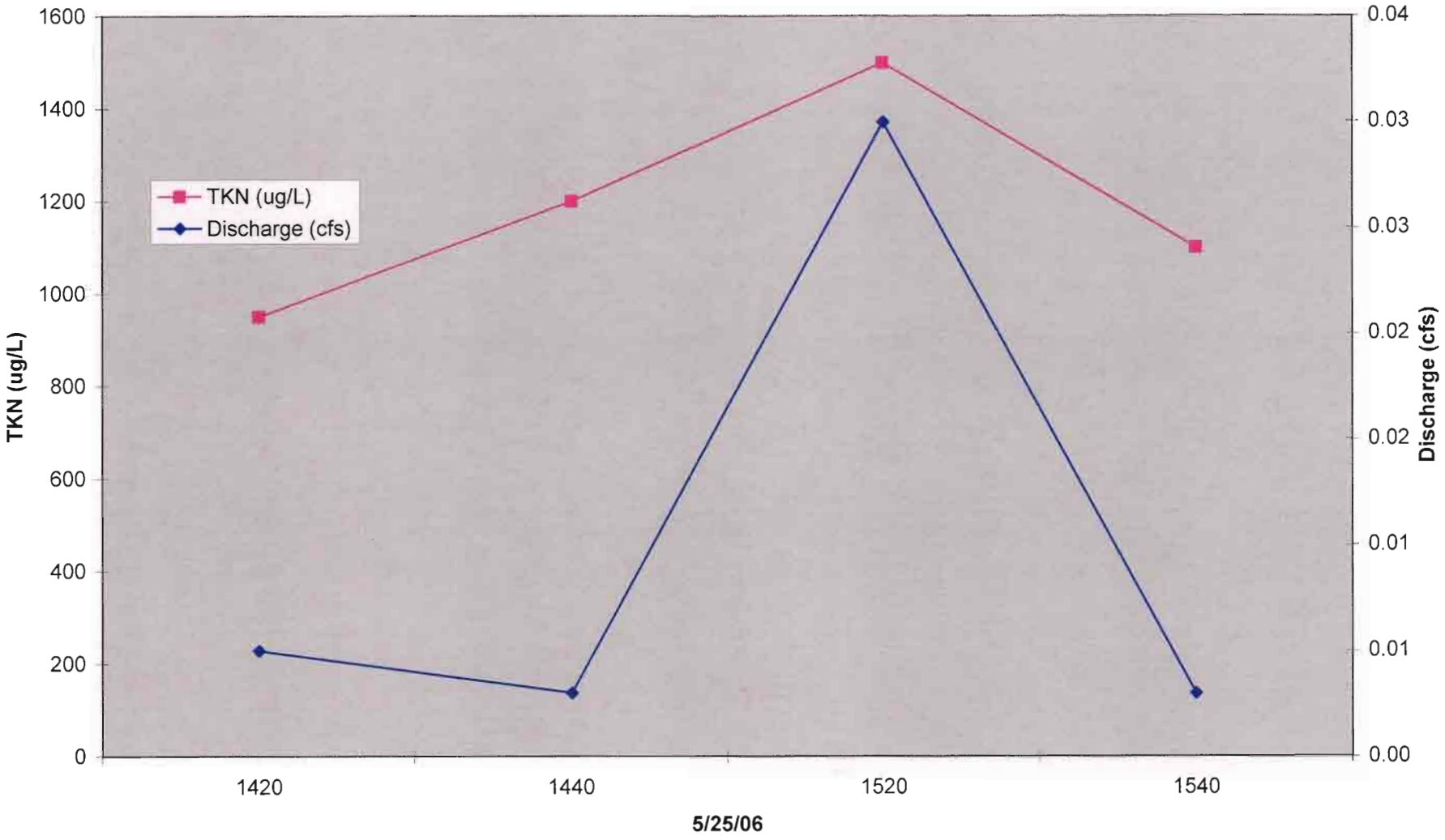
Graph 3.7C: Corkscrew Road Monitoring Station Tuurbidity/Discharge vs. Time 5/25/06 Rain Event



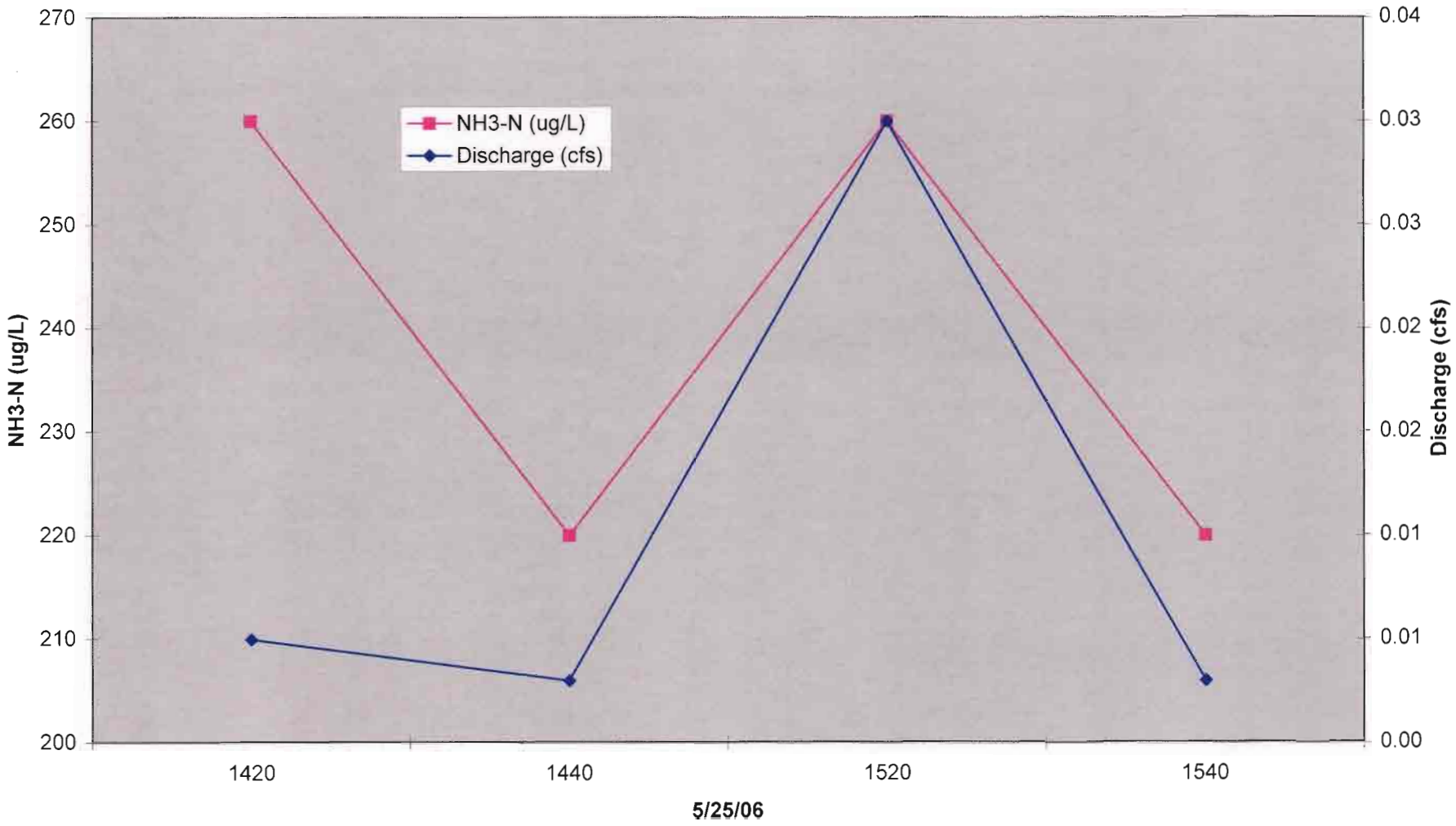
Graph 3.8C: Corkscrew Road Monitoring Station NOX/Discharge vs. Time 5/25/06 Rain Event



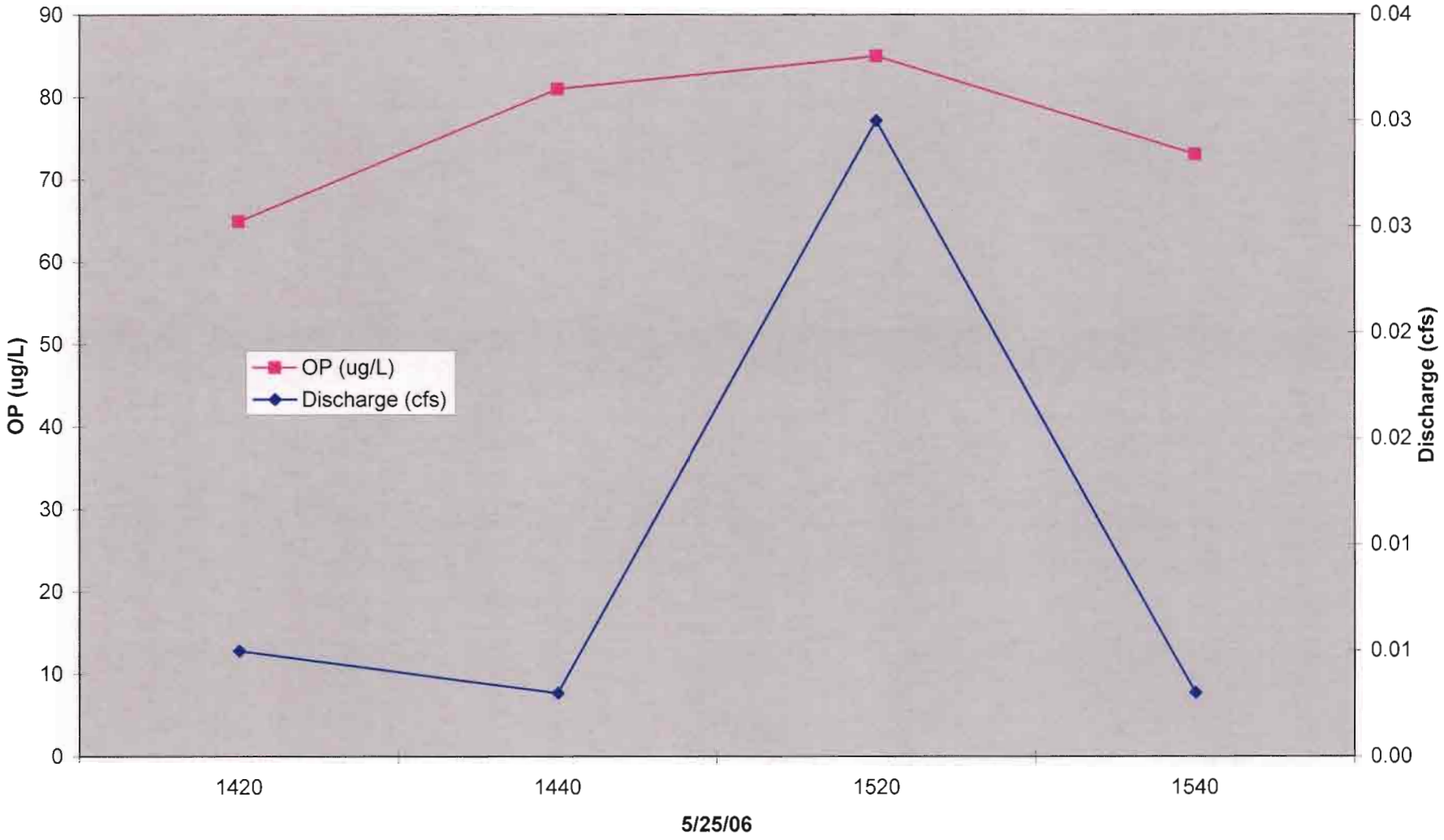
Graph 3.9C: Corkscrew Road Monitoring Station TKN/Discharge vs. Time 5/25/06 Rain Event



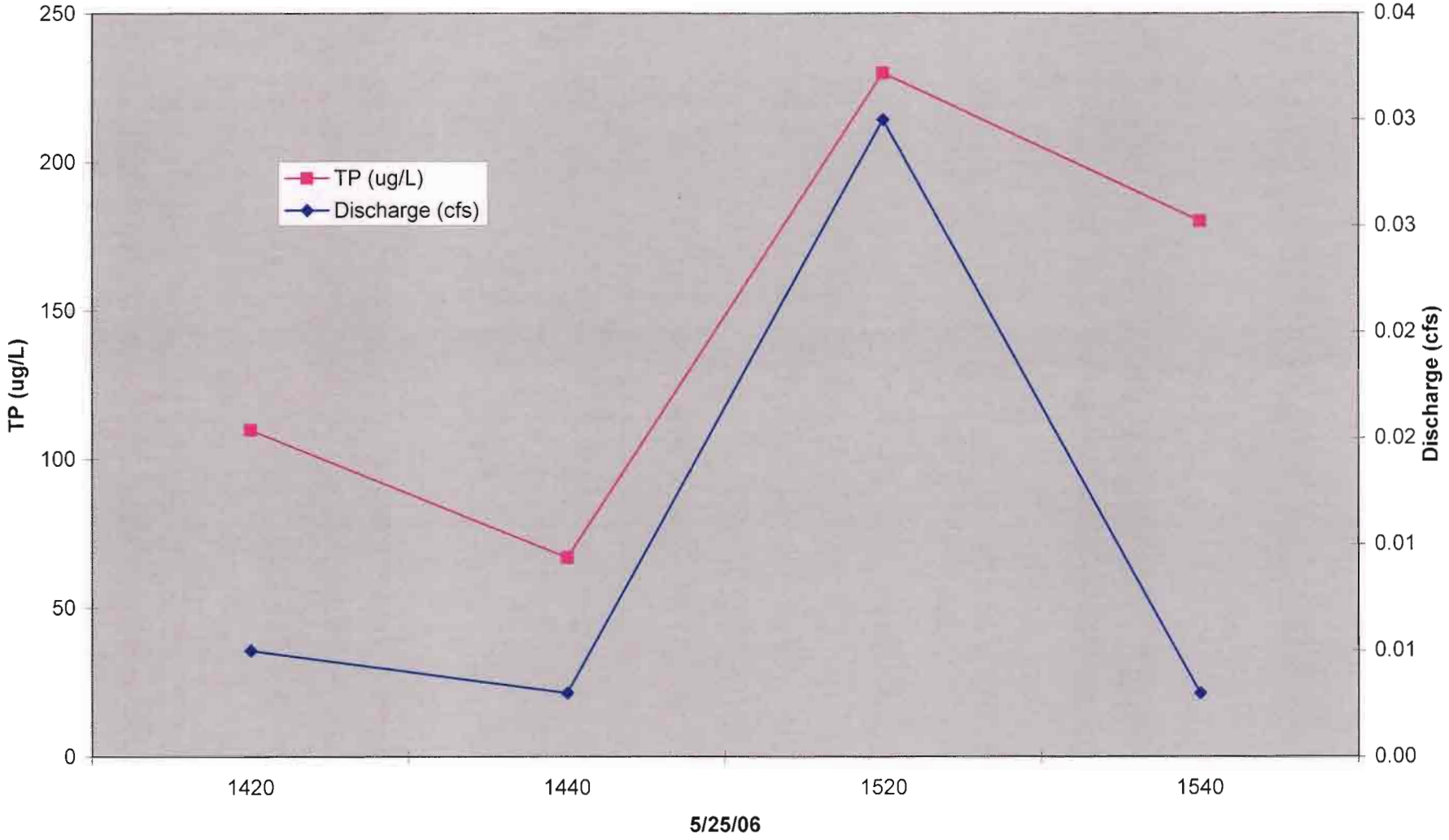
Graph 3.10C: Corkscrew Road Monitoring Station NH3-N/Discharge vs. Time 5/25/06 Rain Event



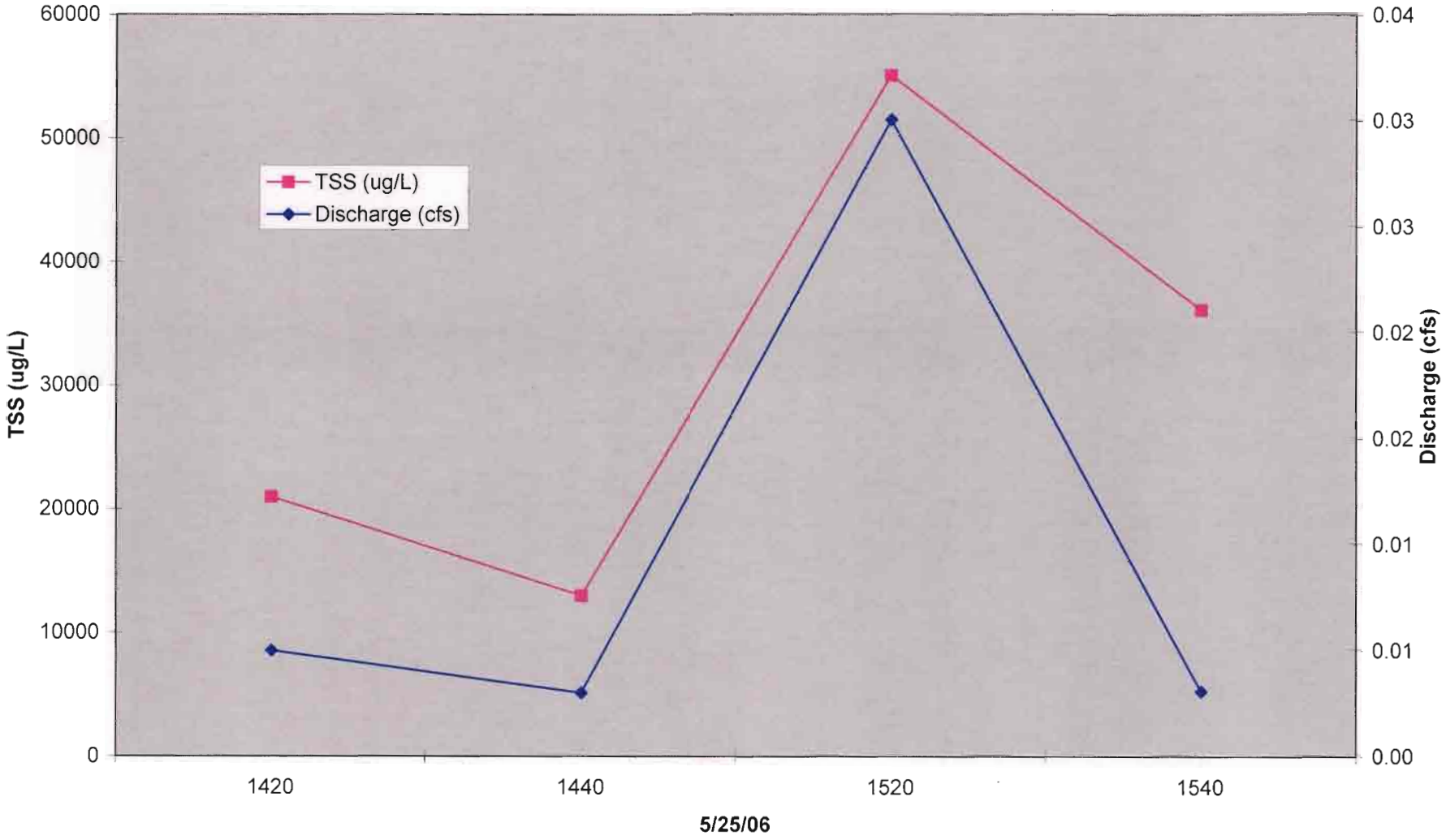
Graph 3.11C: Corkscrew Road Monitoring Station OP/Discharge vs. Time 5/25/06 Rain Event



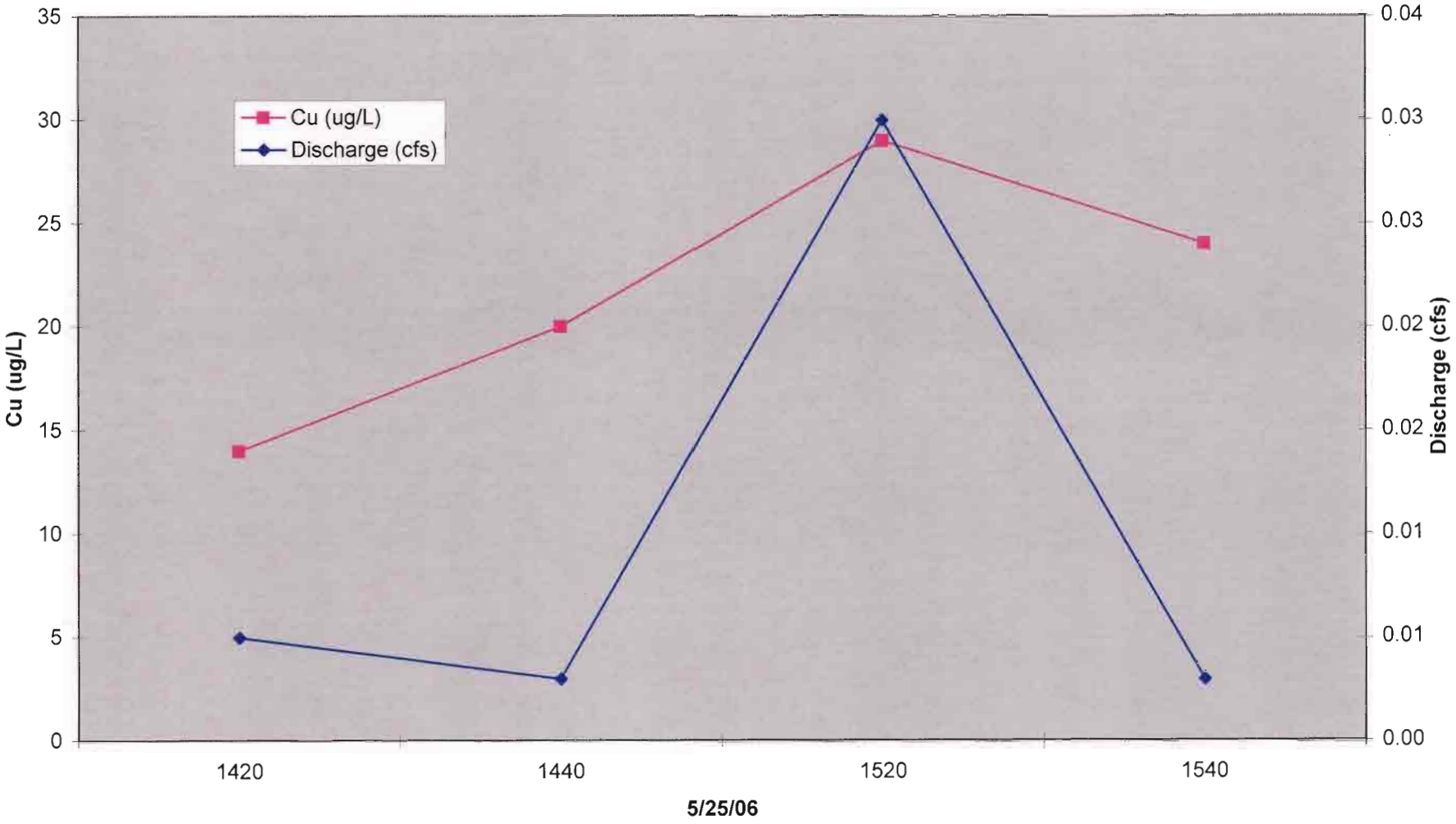
Graph 3.12C: Corkscrew Road Monitoring Station TP/Discharge vs. Time 5/25/06 Rain Event



Graph 3.13C: Corkscrew Road Monitoring Station TSS/Discharge vs. Time 5/25/06 Rain Event

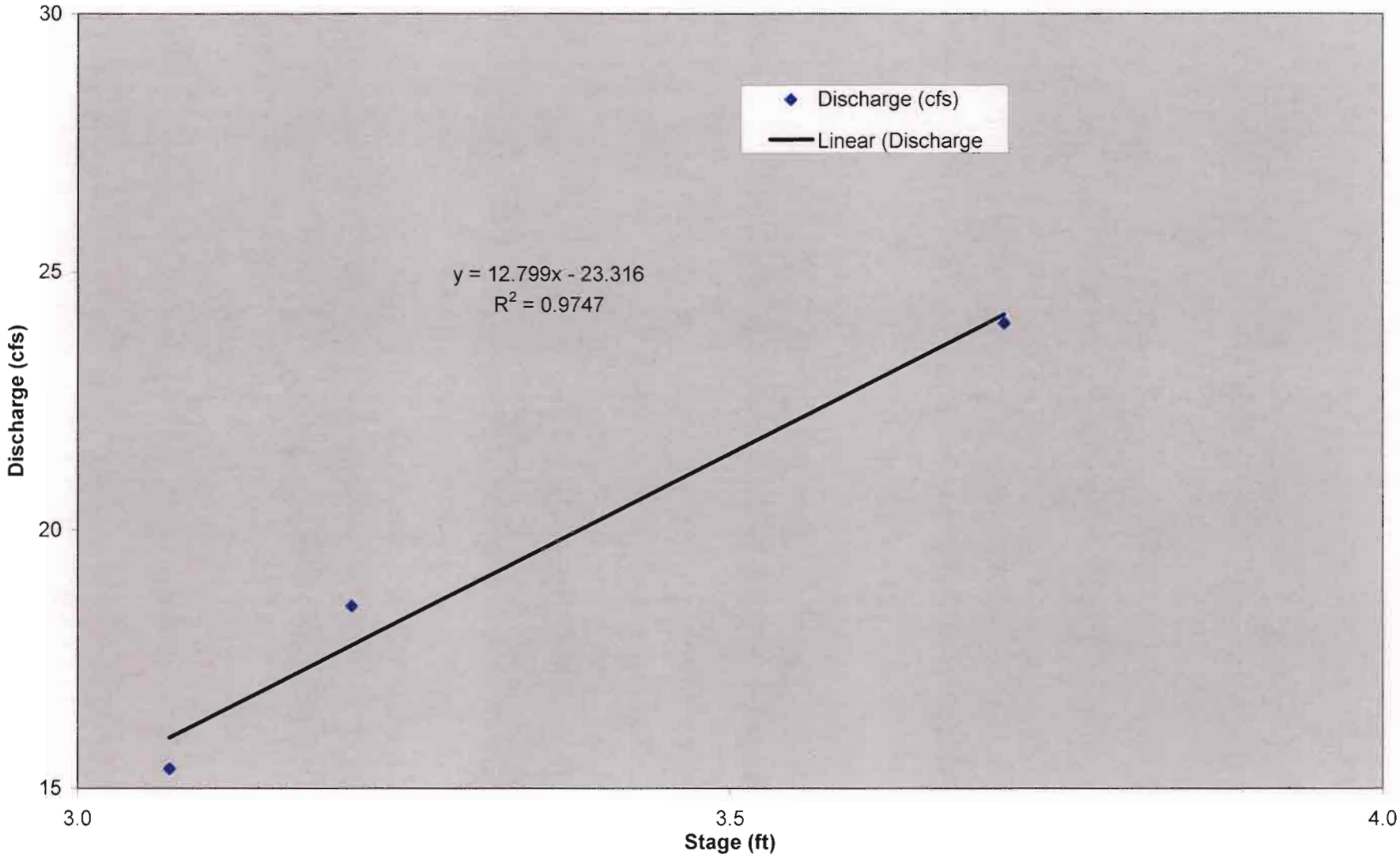


Graph 3.14C: Corkscrew Road Monitoring Station Copper/Discharge vs. Time 5/25/06 Rain Event

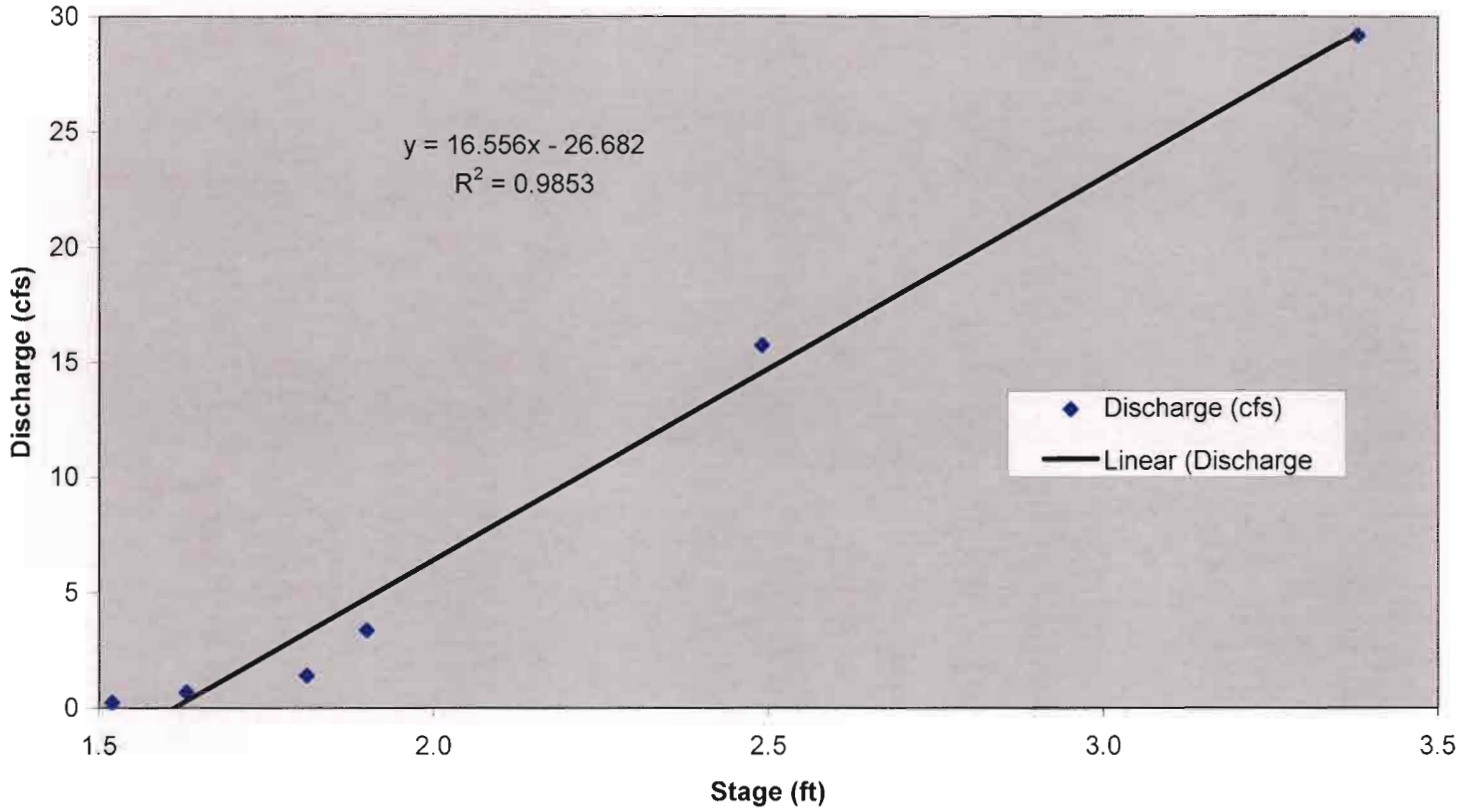


A.4 CORKSCREW SWAMP GRAPHS

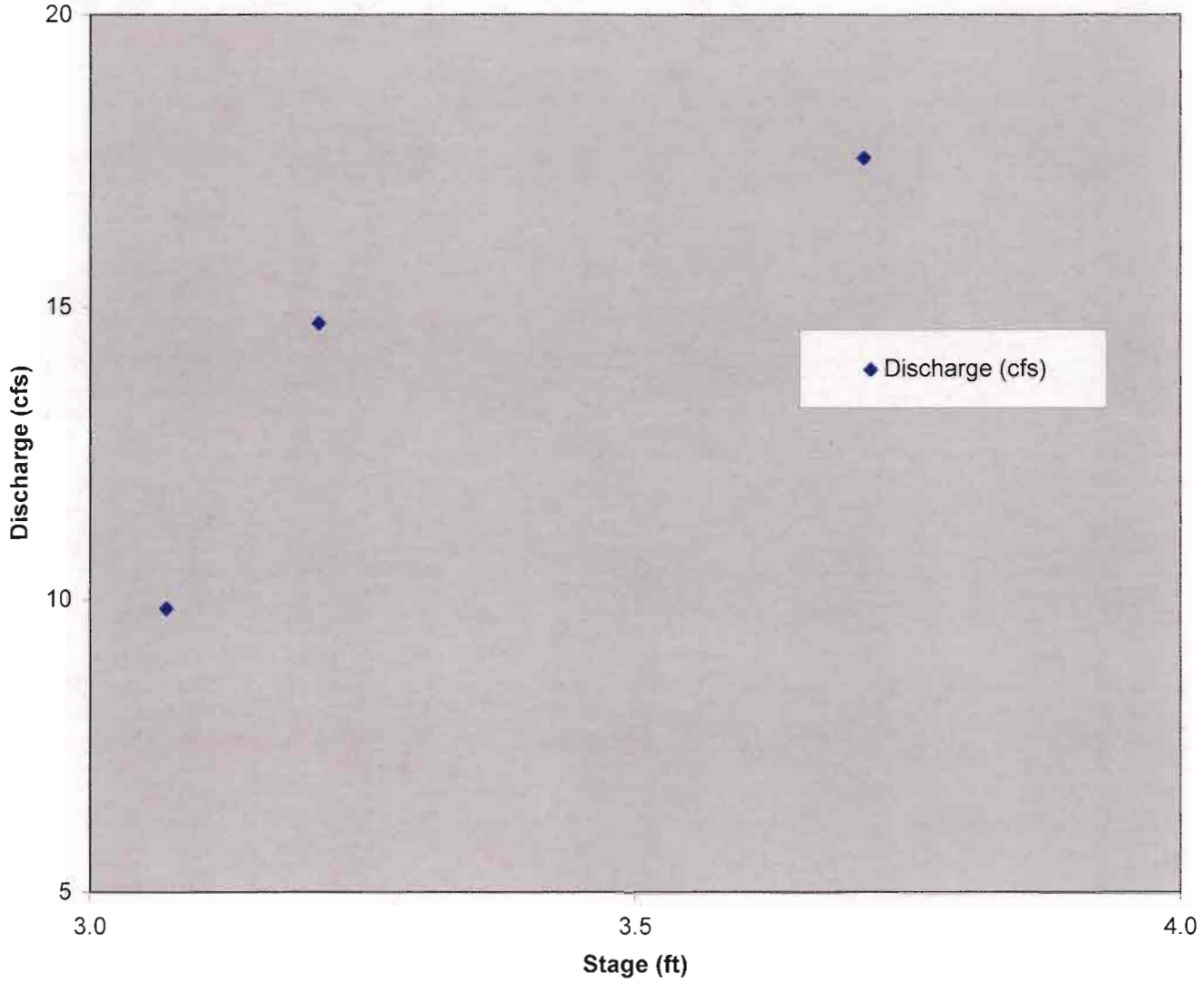
Graph 4.1A: Corkscrew Swamp Monitoring Station Discharge vs. Stage South Culvert Calibration Curve 9/1/03-11/30/03



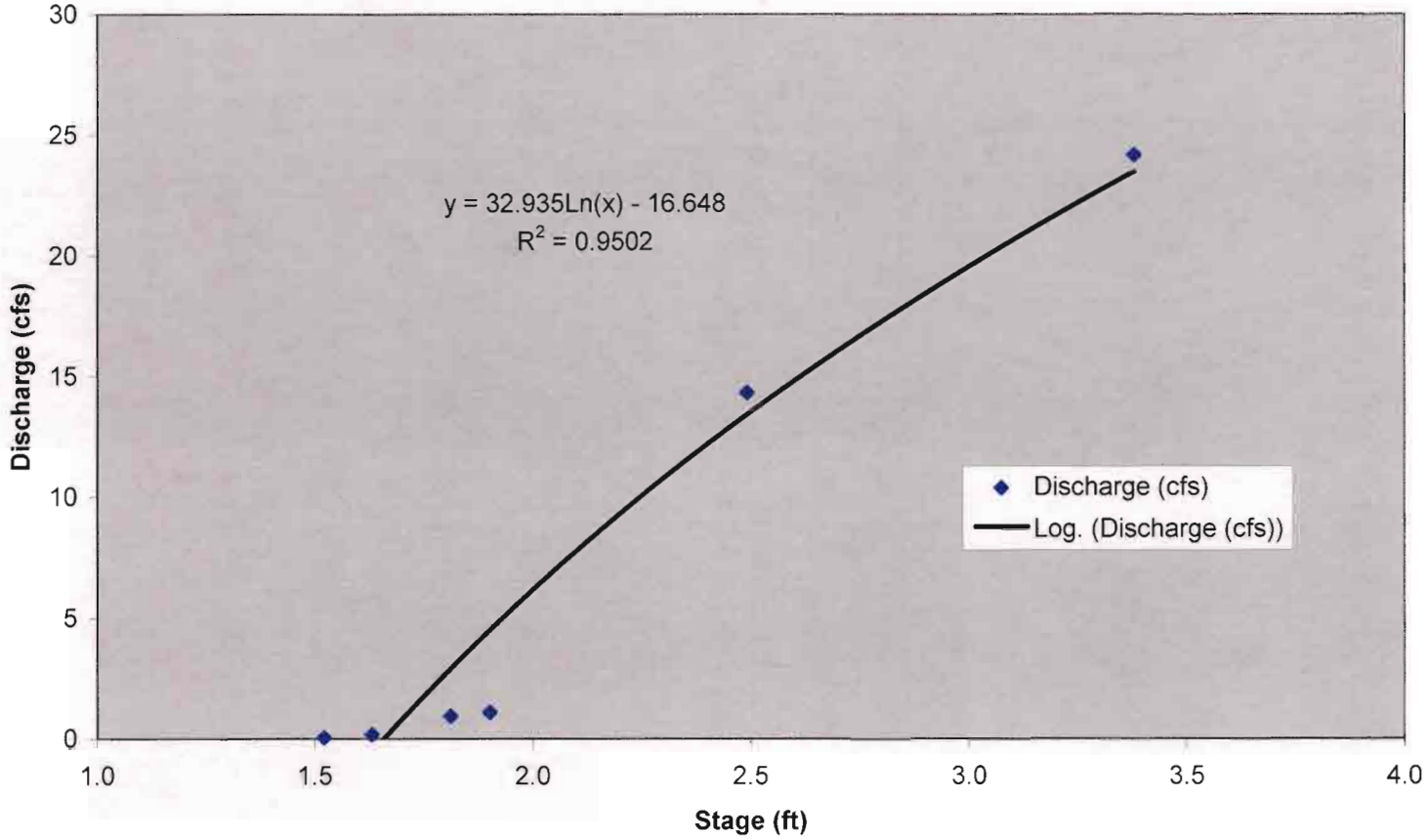
Graph 4.2A: Corkscrew Swamp Monitoring Station Discharge vs. Stage South Culvert Calibration Curve 6/1/04-8/31/04 for Stage Greater Than 1.62 Ft.



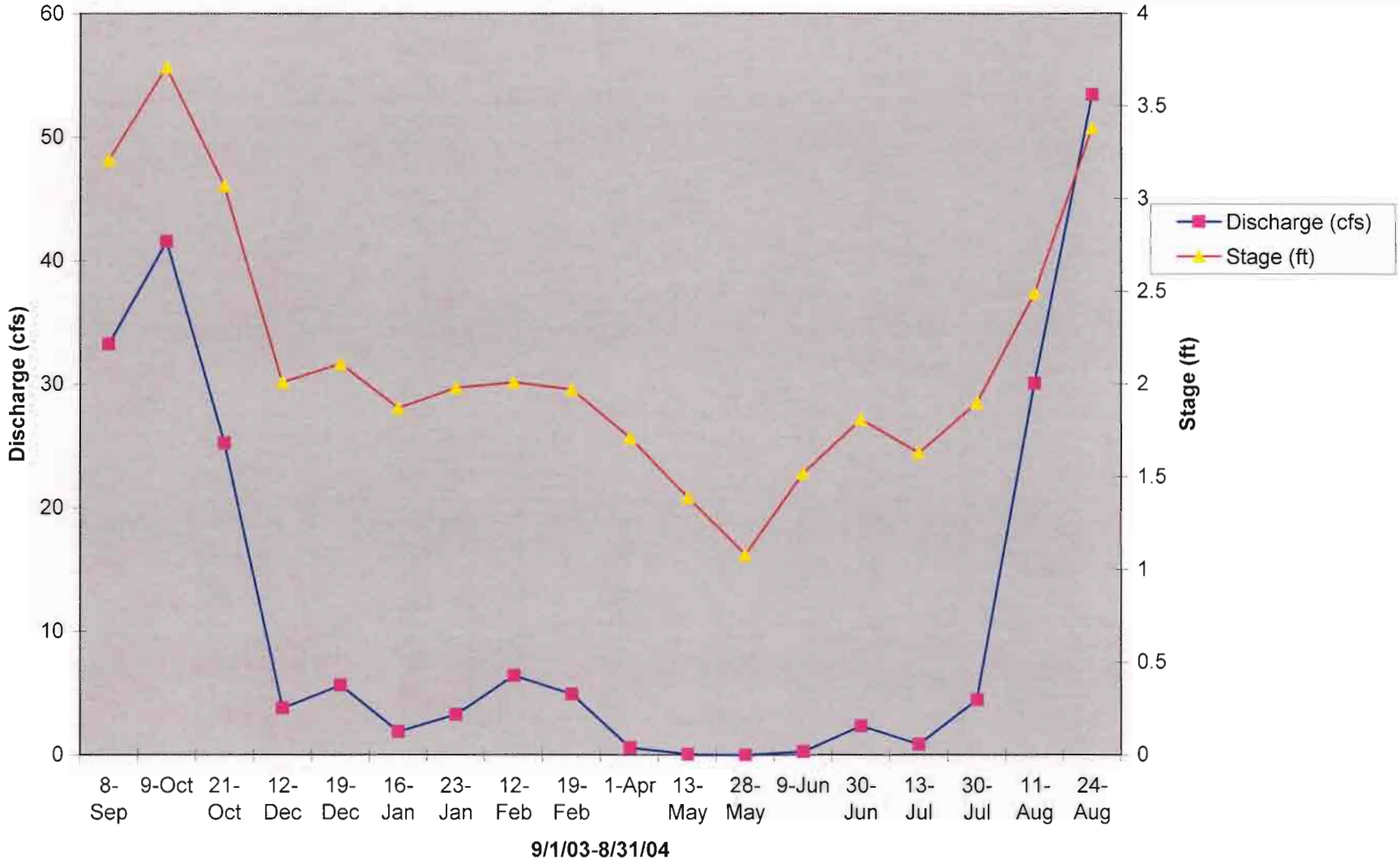
Graph 4.3A: Corkscrew Swamp Monitoring Station Discharge vs. Stage North Culvert Calibration Curve 9/1/03-11/30/03



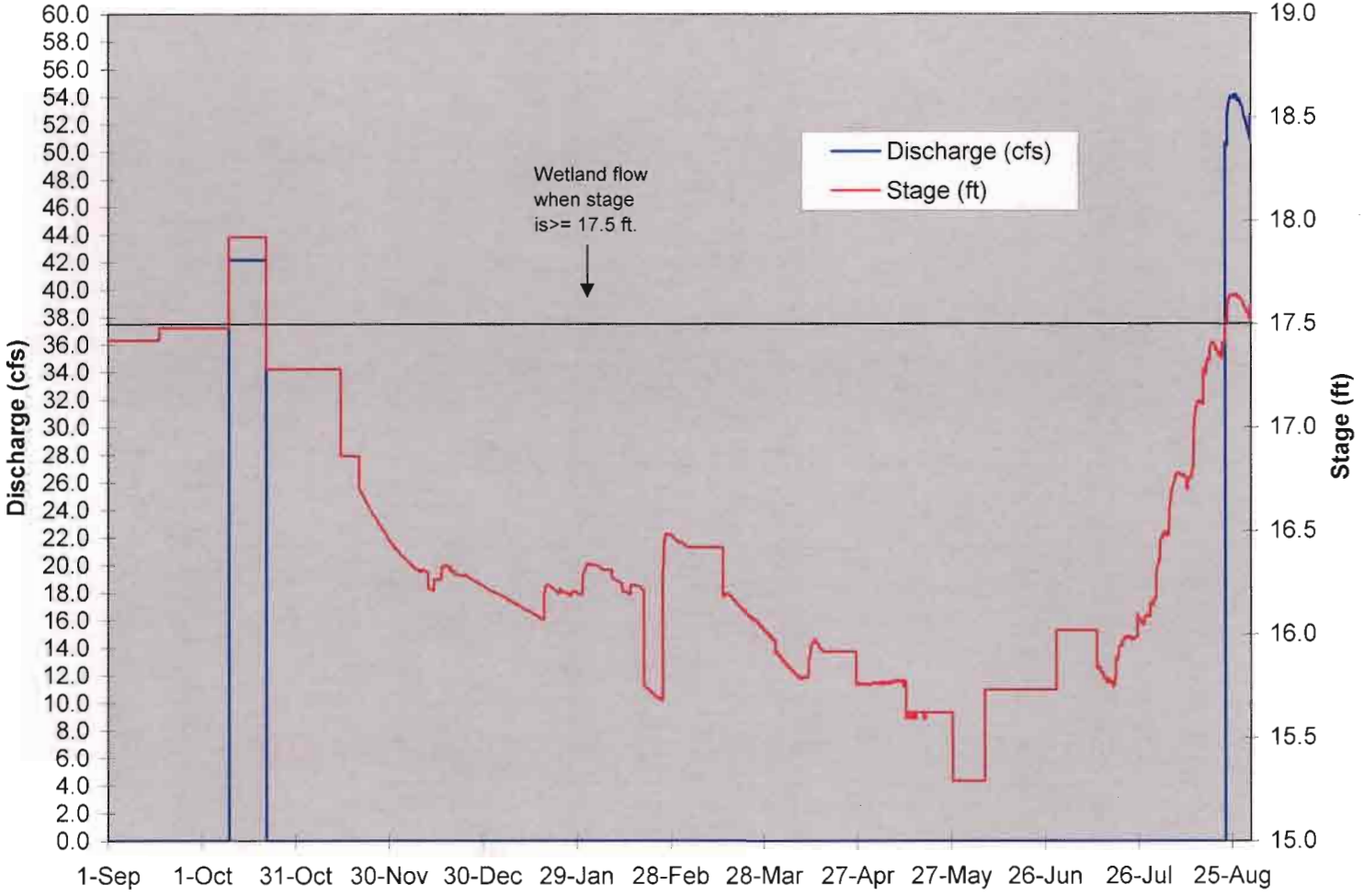
Graph 4.4A: Corkscrew Swamp Monitoring Station Discharge vs. Stage North Culvert Calibration Curve 6/1/04-8/31/04 for Stage Greater Than 1.65 Ft.



Graph 4.5A: Corkscrew Swamp Monitoring Station Discharge/Stage vs Time

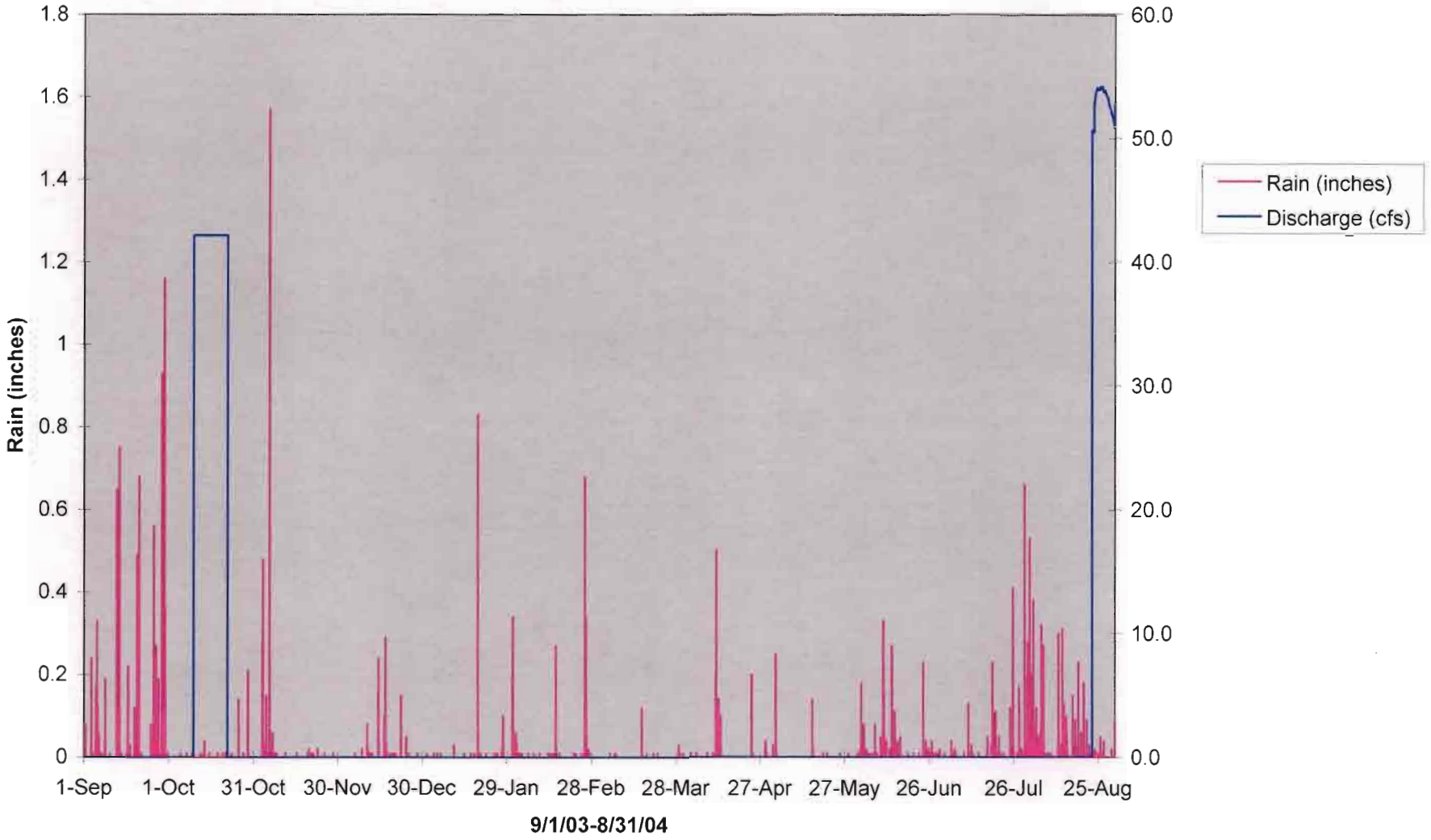


Graph 4.6A: Corkscrew Swamp Monitoring Station Discharge/Stage vs Time

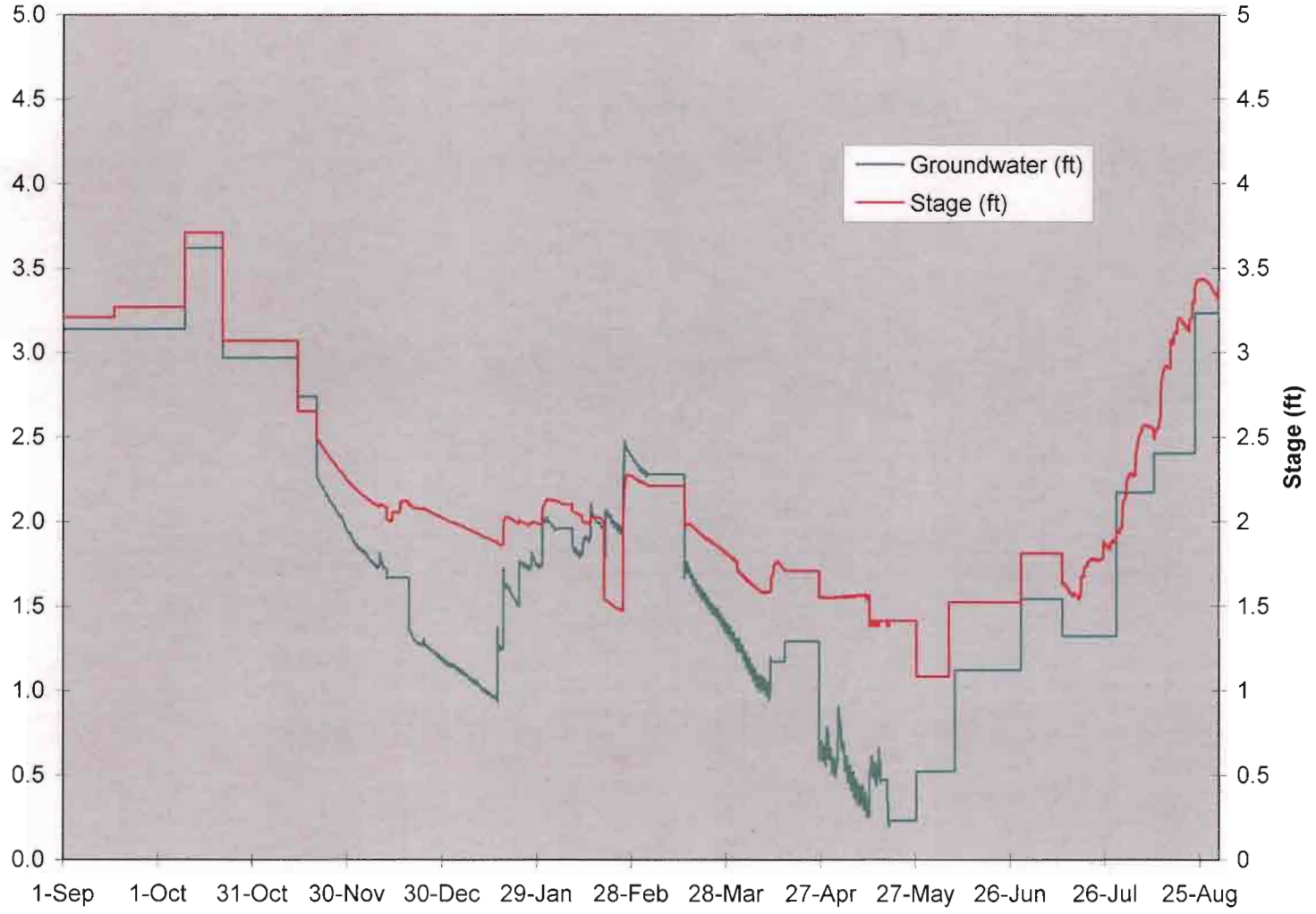


9/1/03-8/31/04

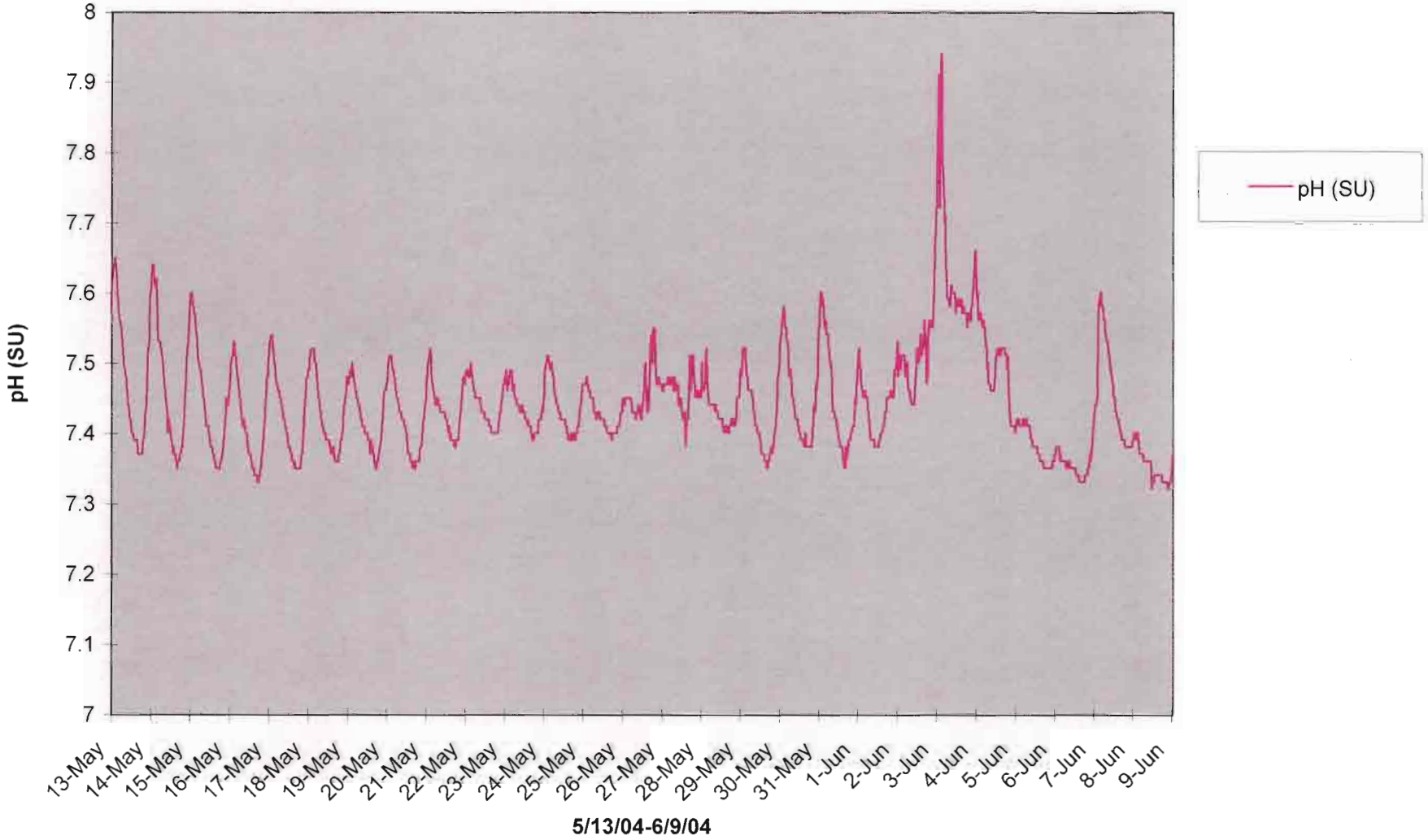
Graph 4.7A: Corkscrew Swamp Monitoring Station Rain\Discharge vs Time



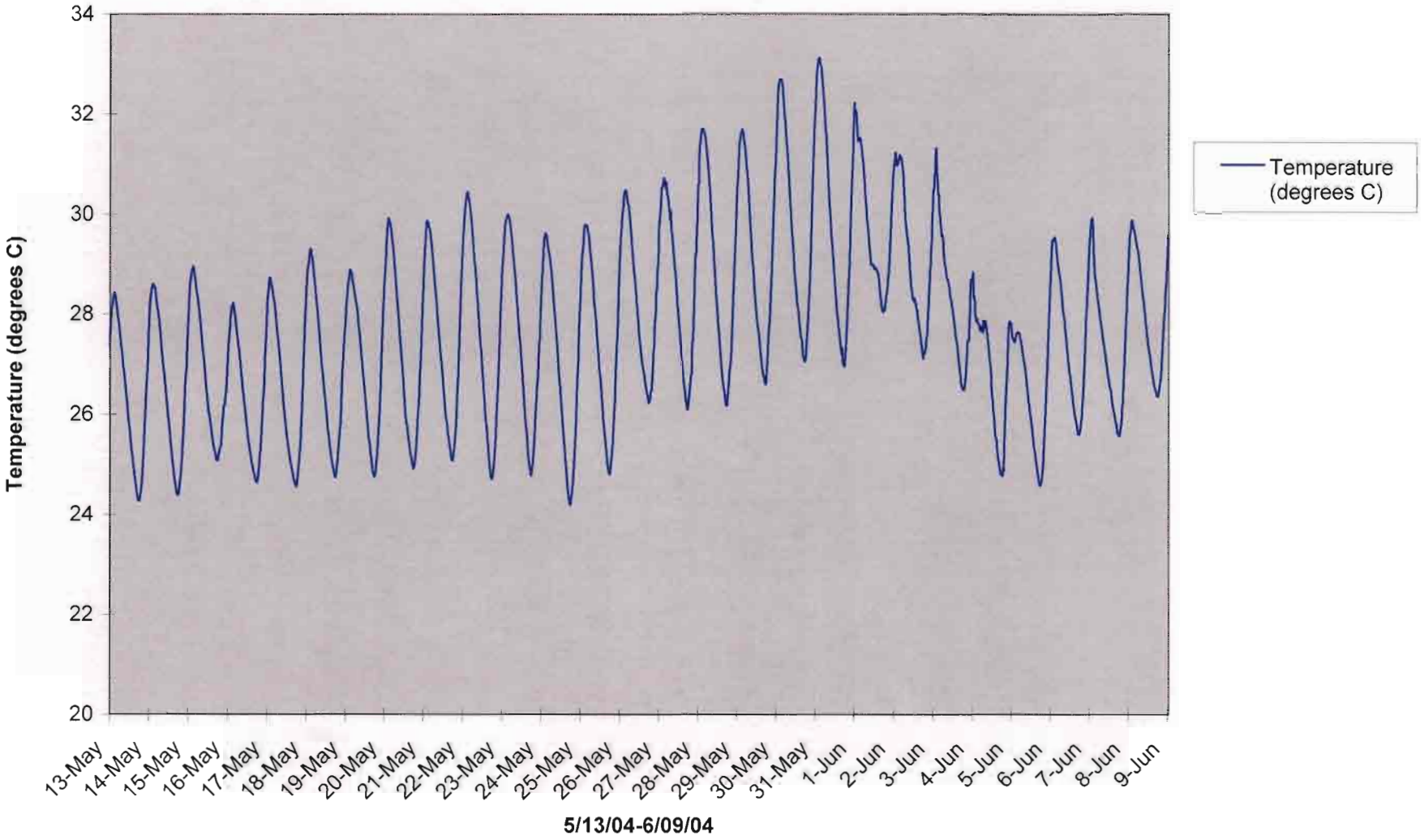
Graph 4.8A: Corkscrew Swamp Monitoring Station Groundwater/Stage Elevation vs Time



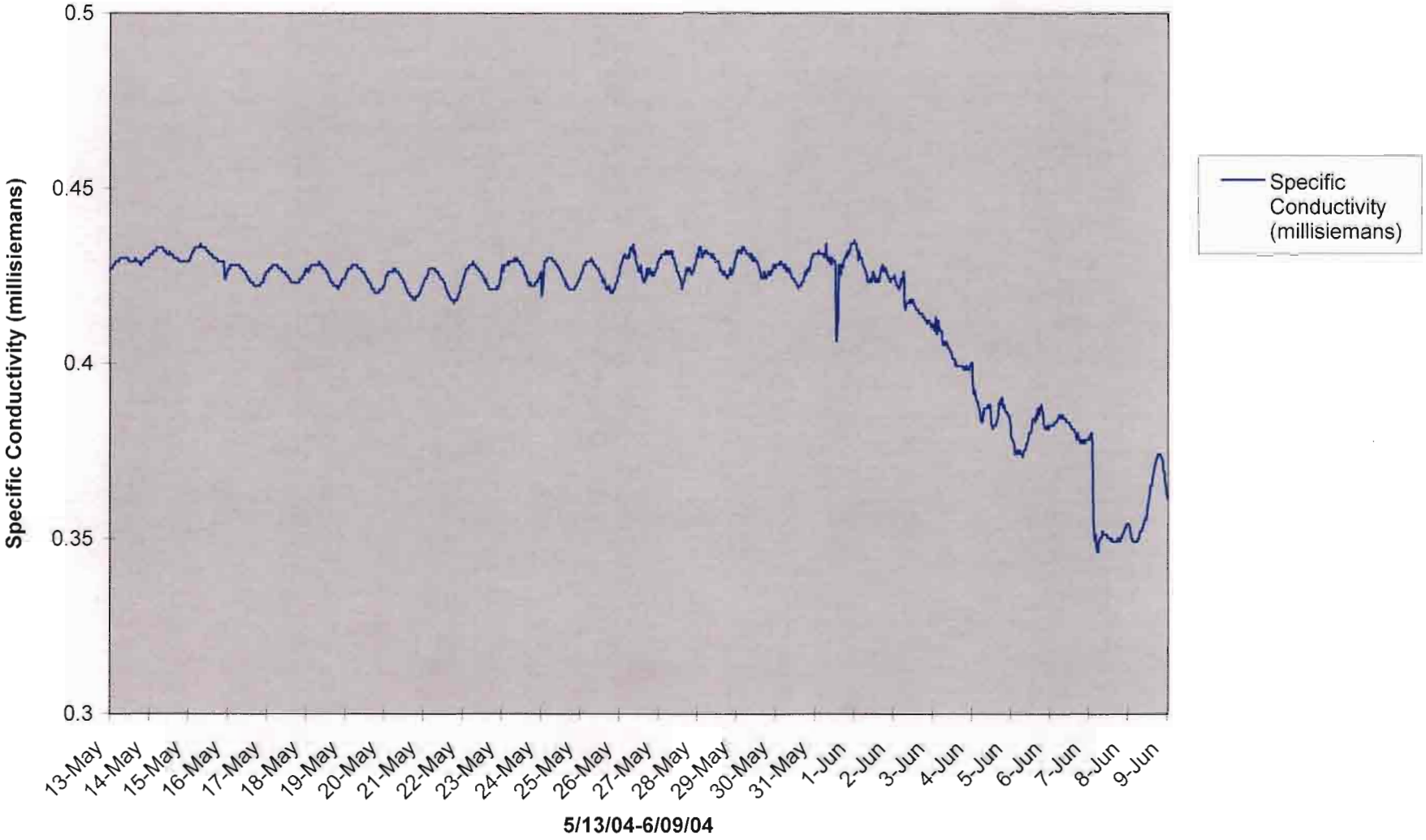
Graph 4.9A: Corkscrew Swamp Monitoring Station pH vs Time



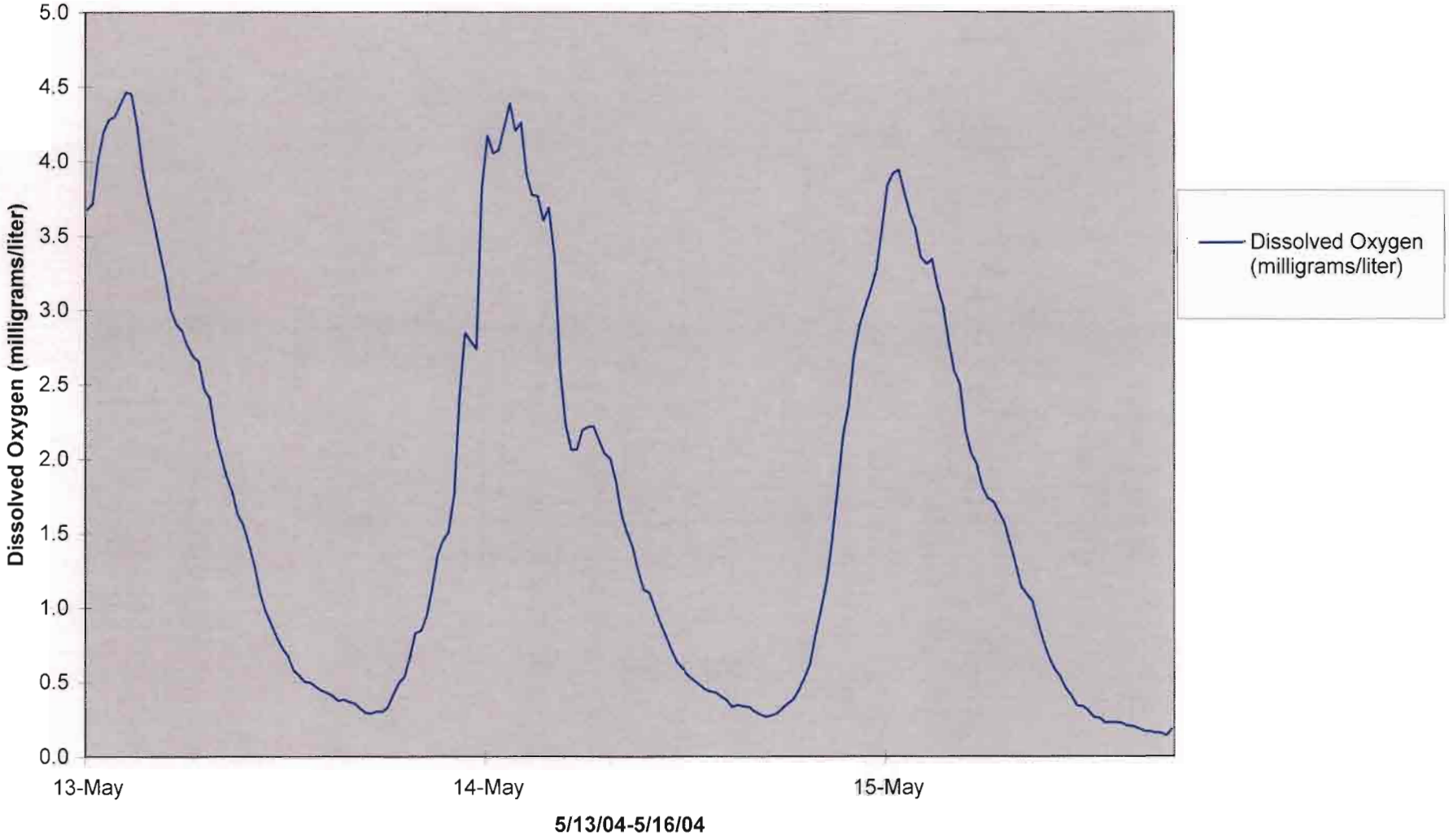
Graph 4.10A: Corkscrew Swamp Monitoring Station Water Temperature vs Time



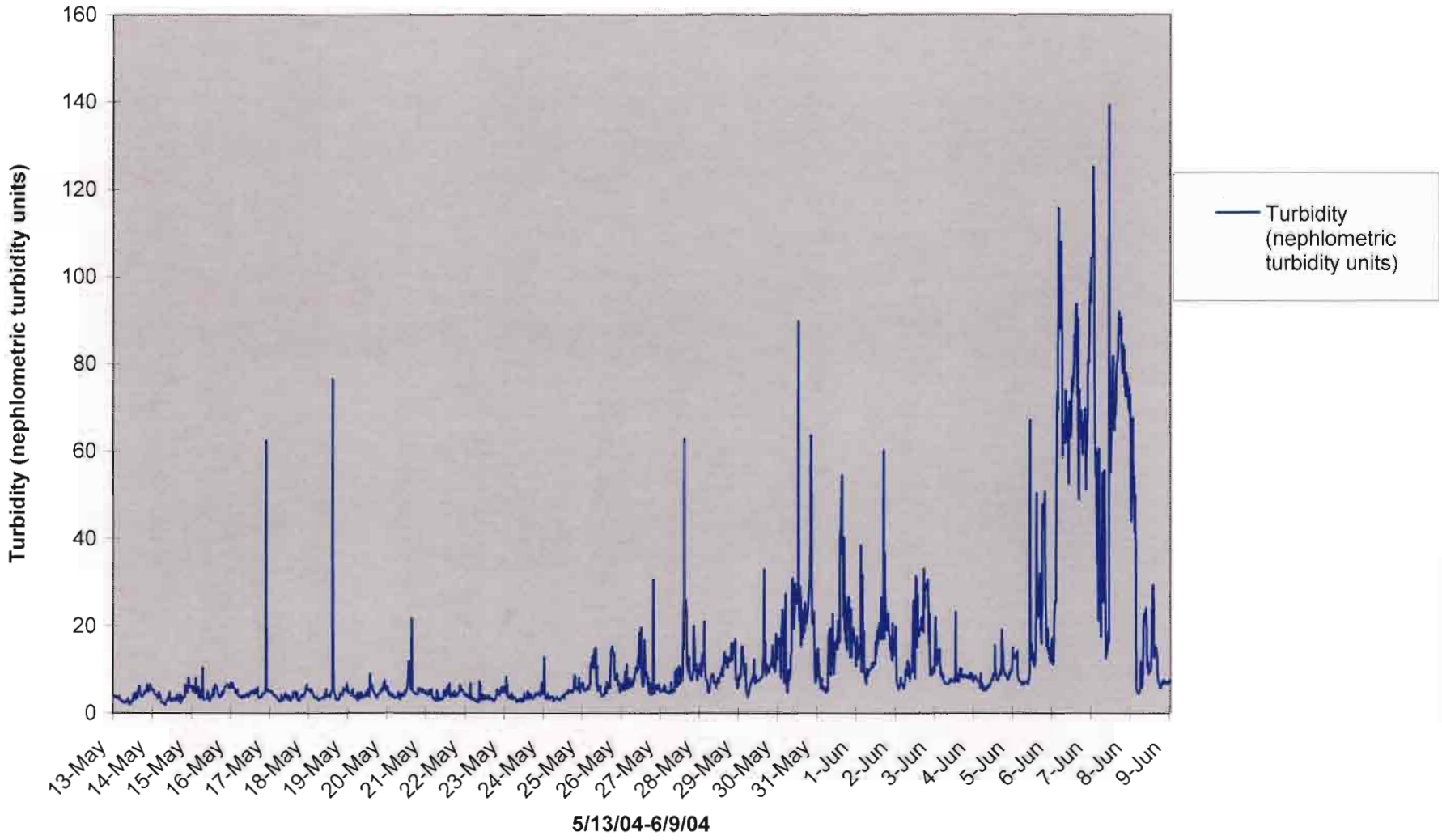
Graph 4.11A: Corkscrew Swamp Monitoring Station Specific Conductivity vs Time



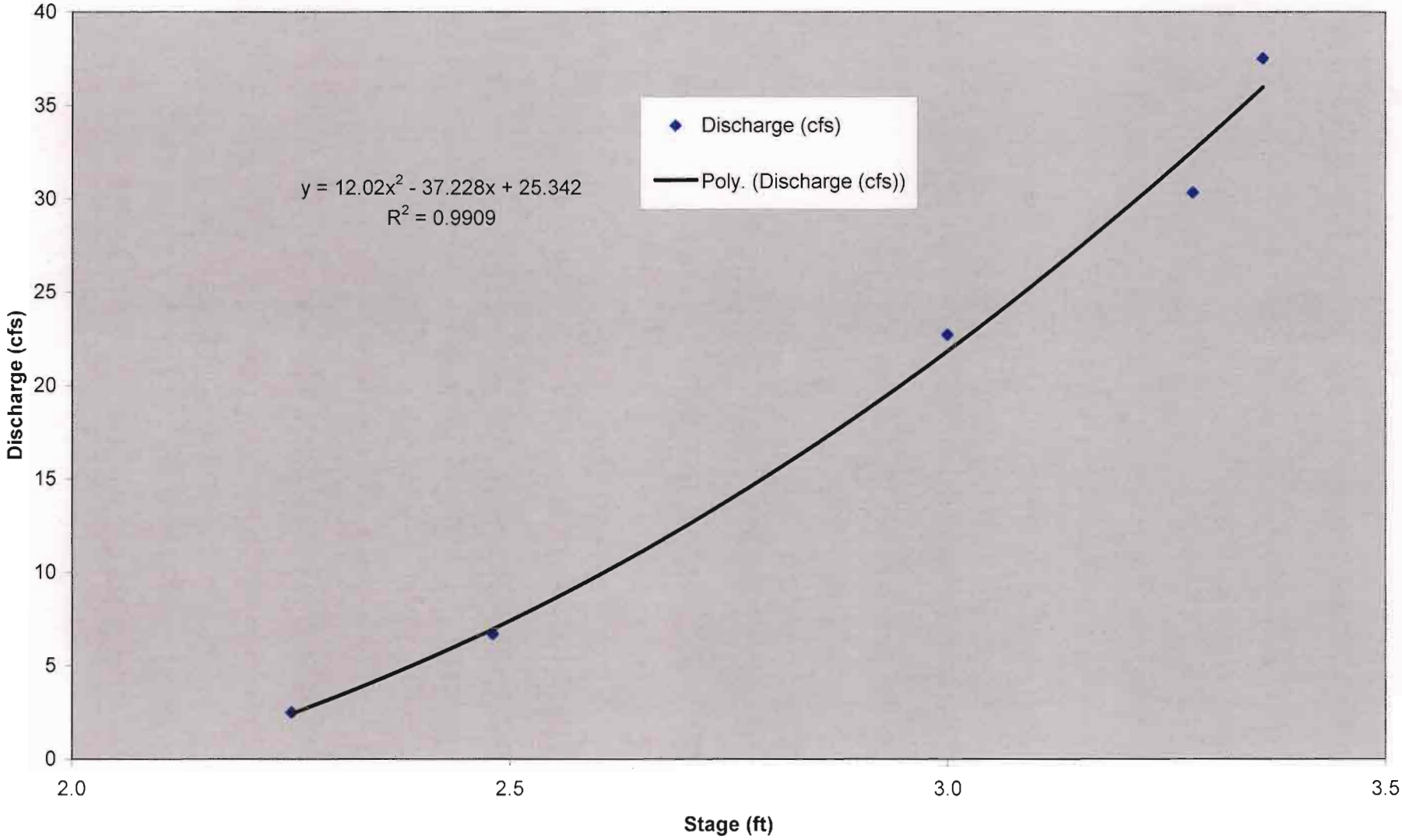
Graph 4.12A: Corkscrew Swamp Monitoring Station Dissolved Oxygen vs Time



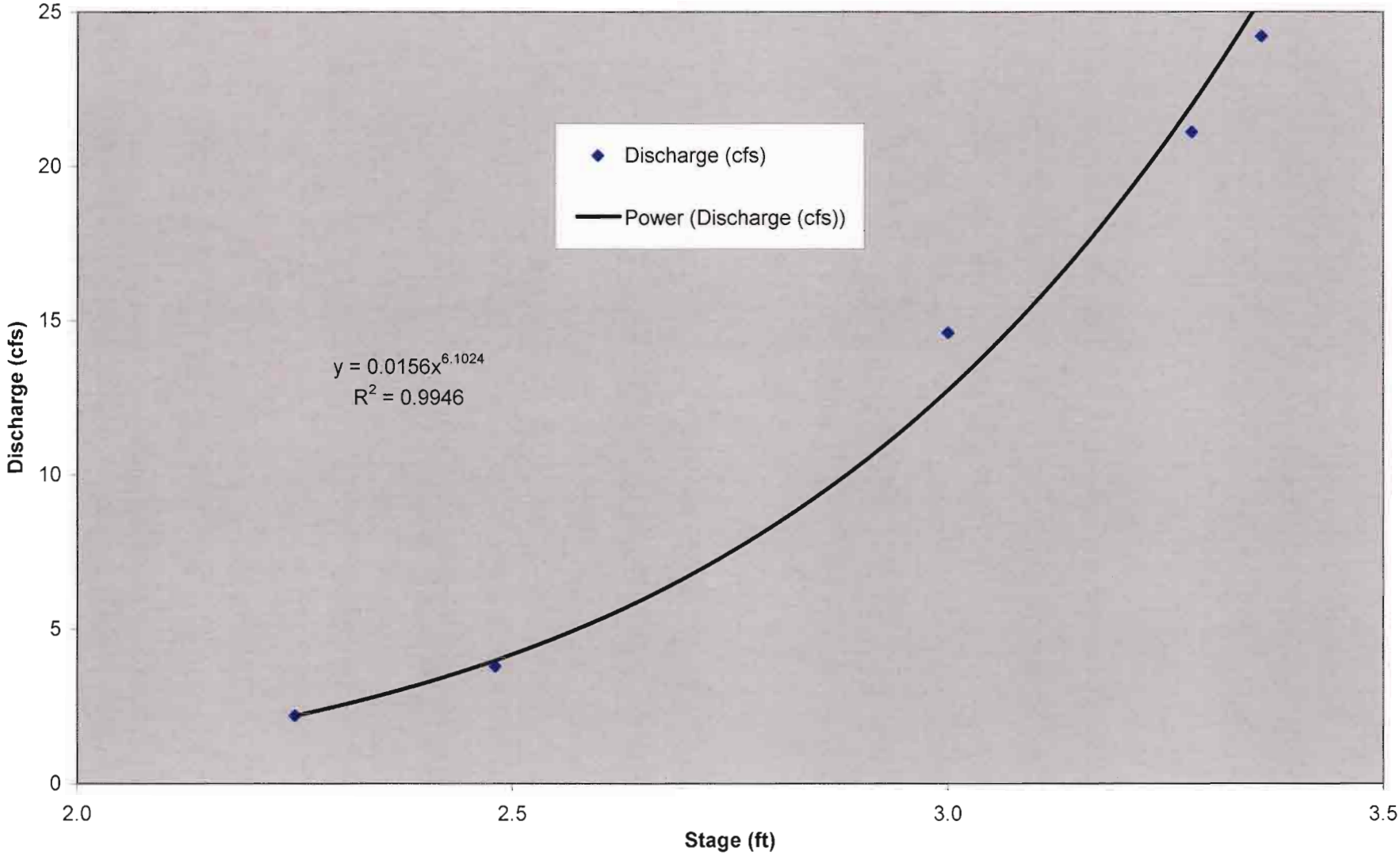
Graph 4.13A: Corkscrew Swamp Monitoring Station Turbidity vs Time



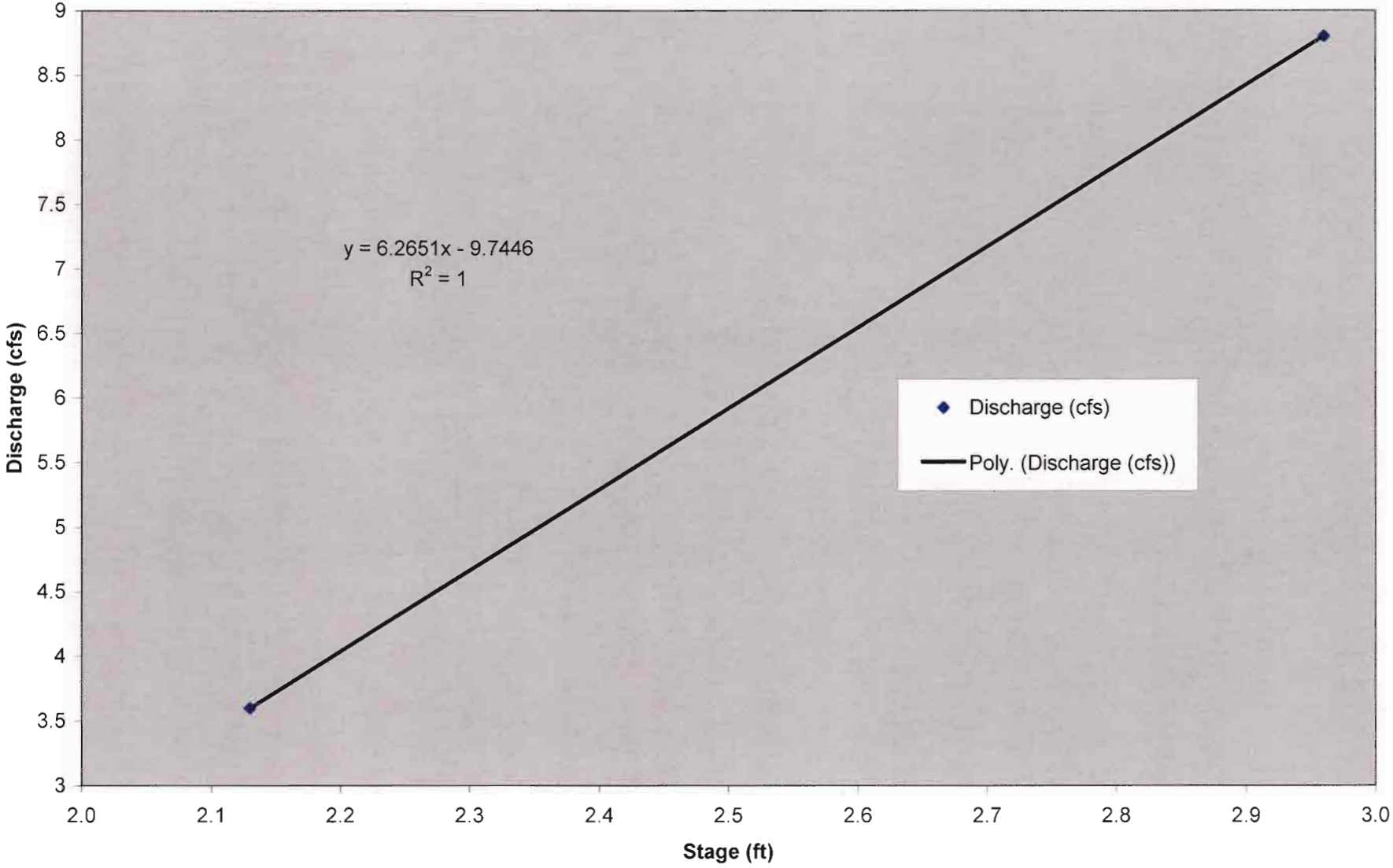
Graph 4.1B: Corkscrew Swamp Monitoring Station Discharge vs. Stage South Culvert
Calibration Curve 9/1/04-11/30/04



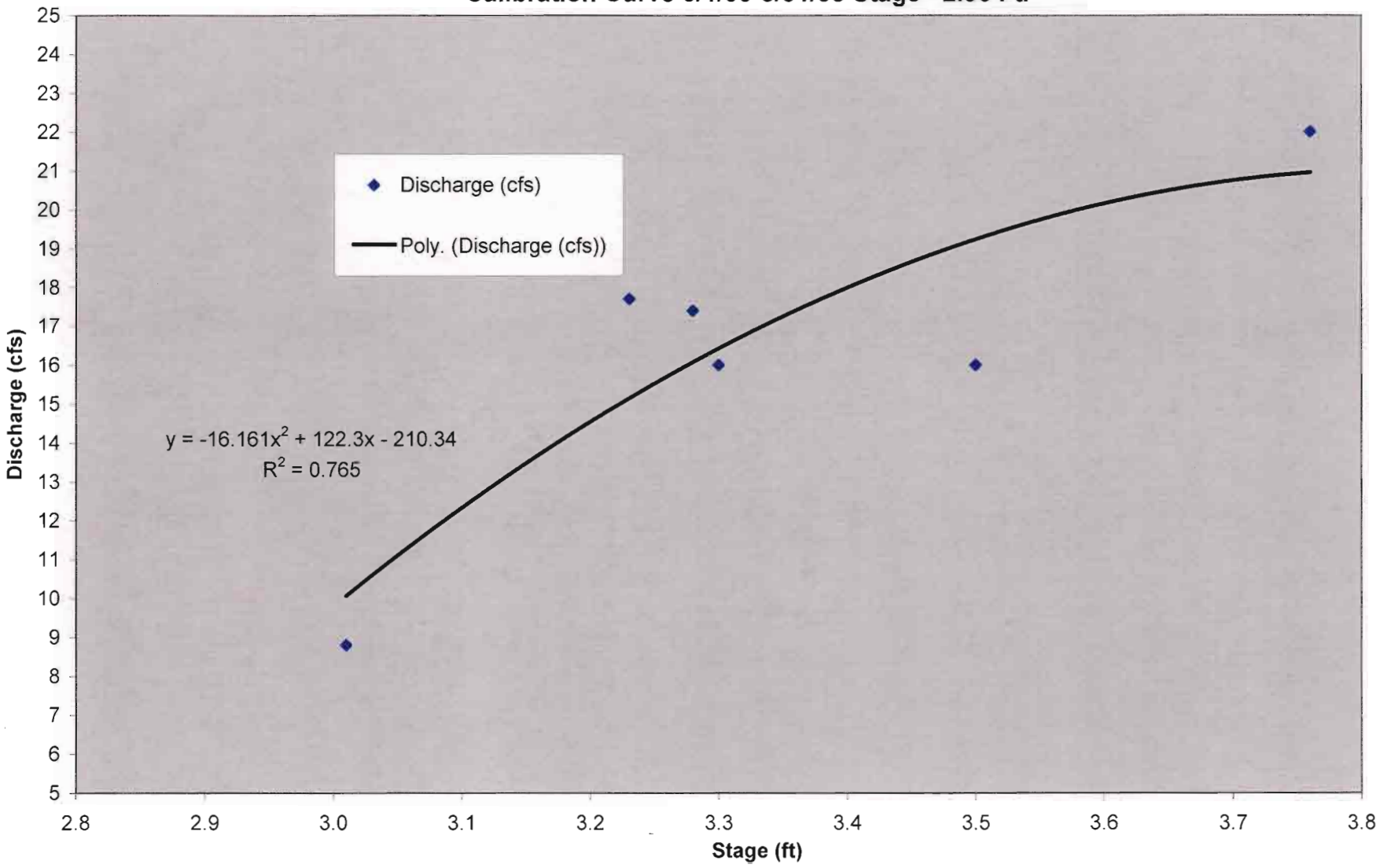
Graph 4.2B: Corkscrew Swamp Monitoring Station Discharge vs. Stage North Culvert Calibration Curve 9/1/2004-11/30/2004



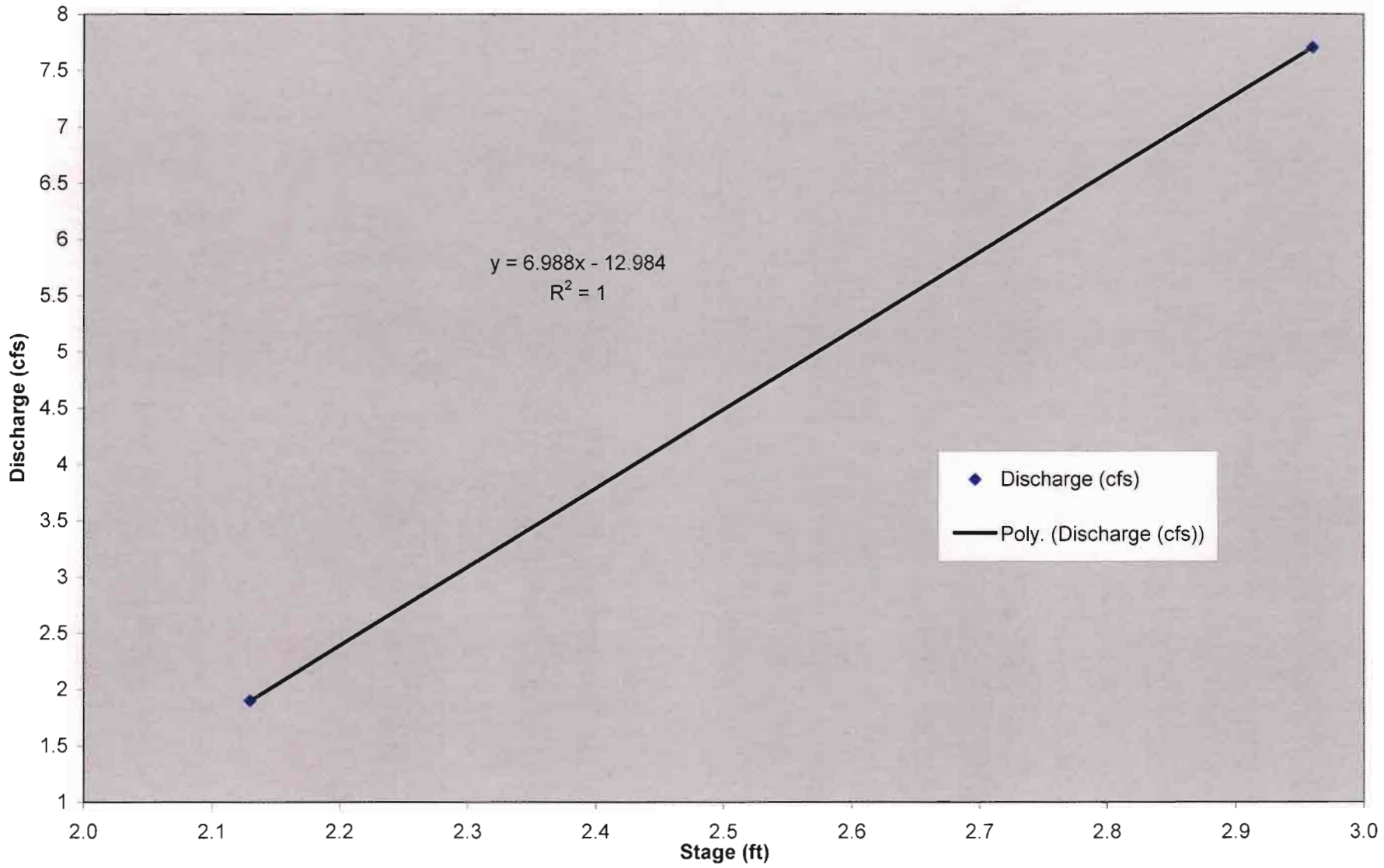
Graph 4.3B: Corkscrew Swamp Monitoring Station Discharge vs. Stage South Culvert Calibration Curve 6/1/05-8/31/05 Stage <2.96 Ft.



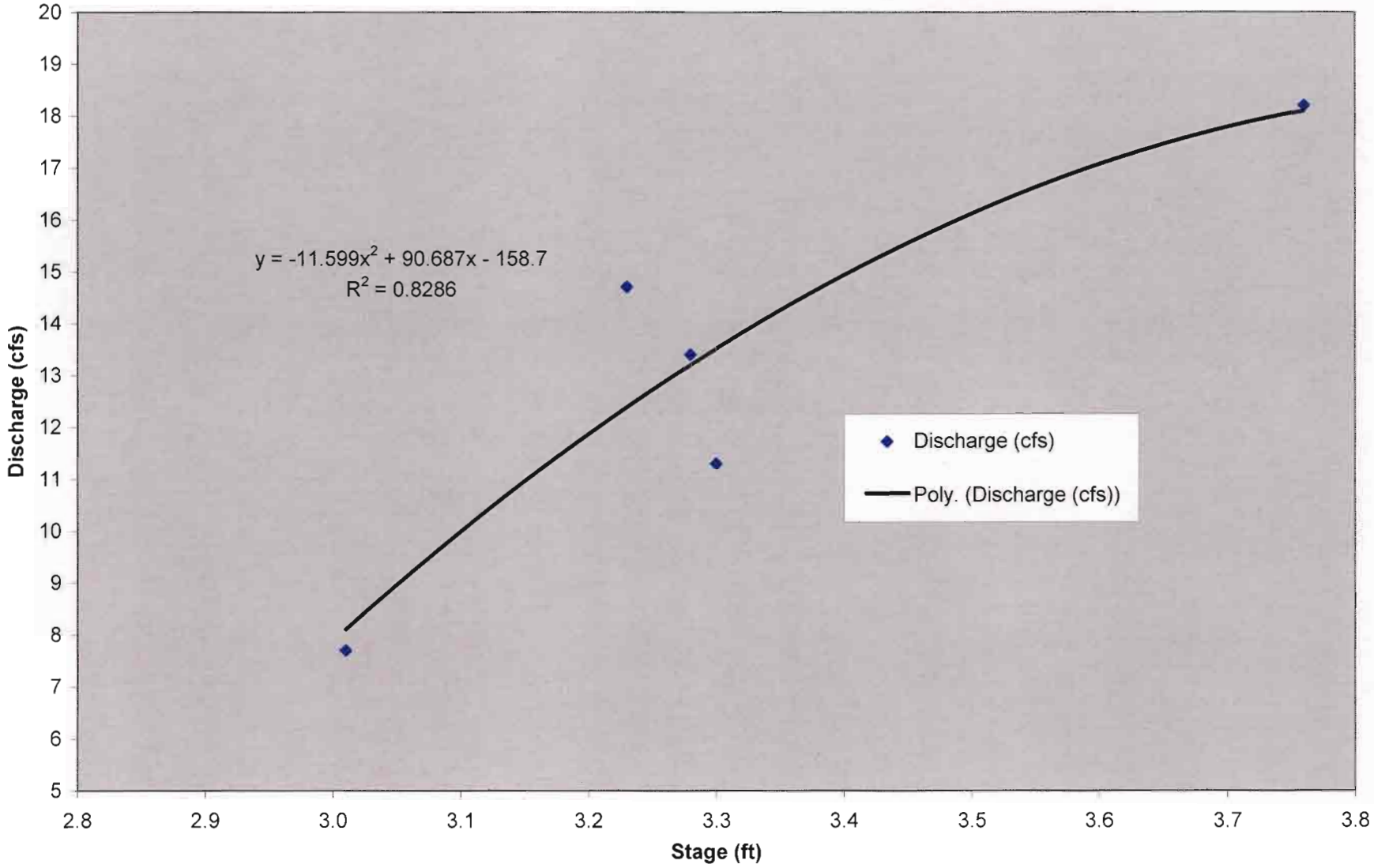
Graph 4.4B: Corkscrew Swamp Monitoring Station Discharge vs. Stage South Culvert Calibration Curve 6/1/05-8/31/05 Stage >2.96 Ft.



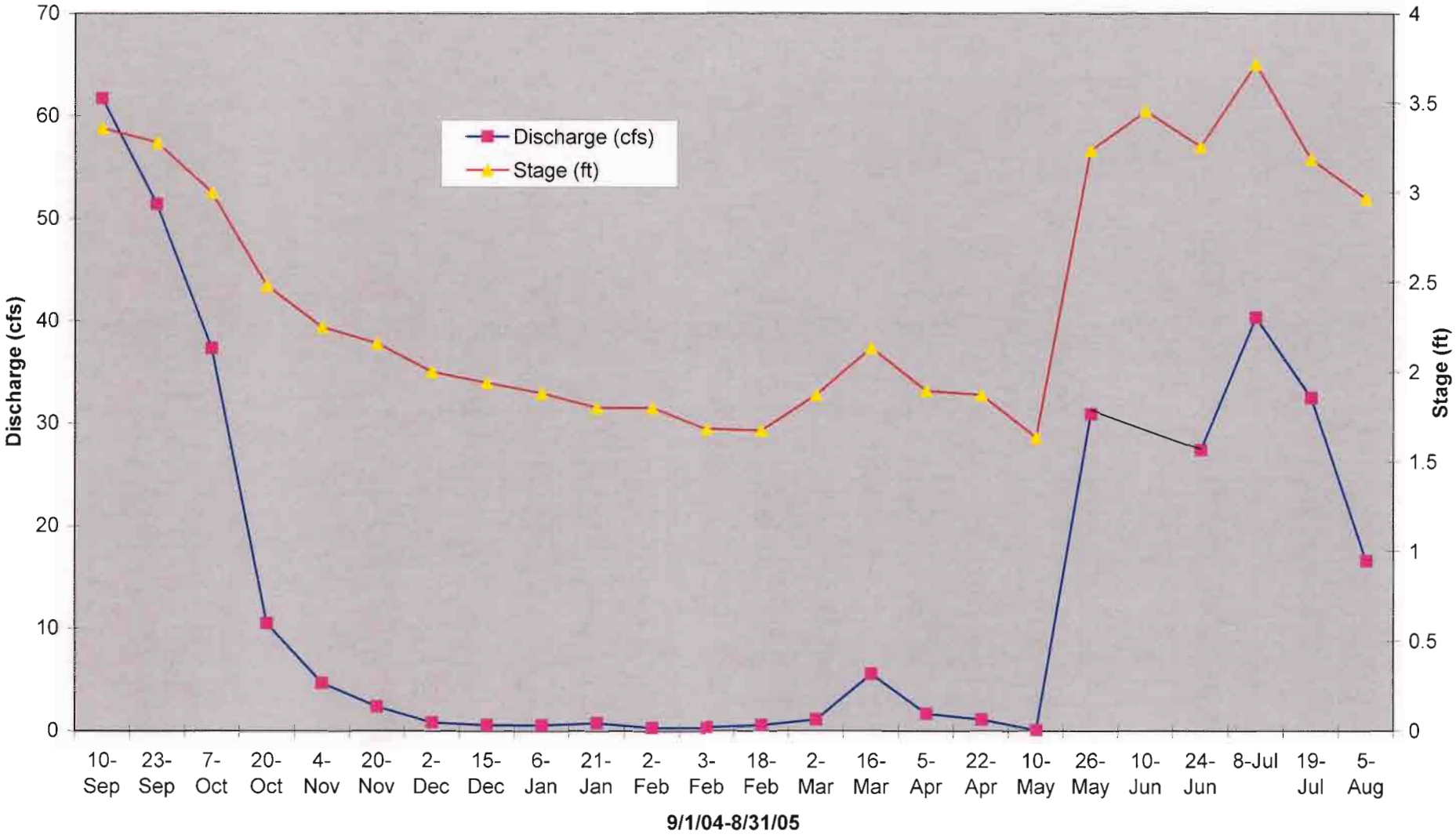
Graph 4.5B: Corkscrew Swamp Monitoring Station Discharge vs. Stage North Culvert Calibration Curve 6/1/2005-8/31/2005 Stage <2.96 Ft.



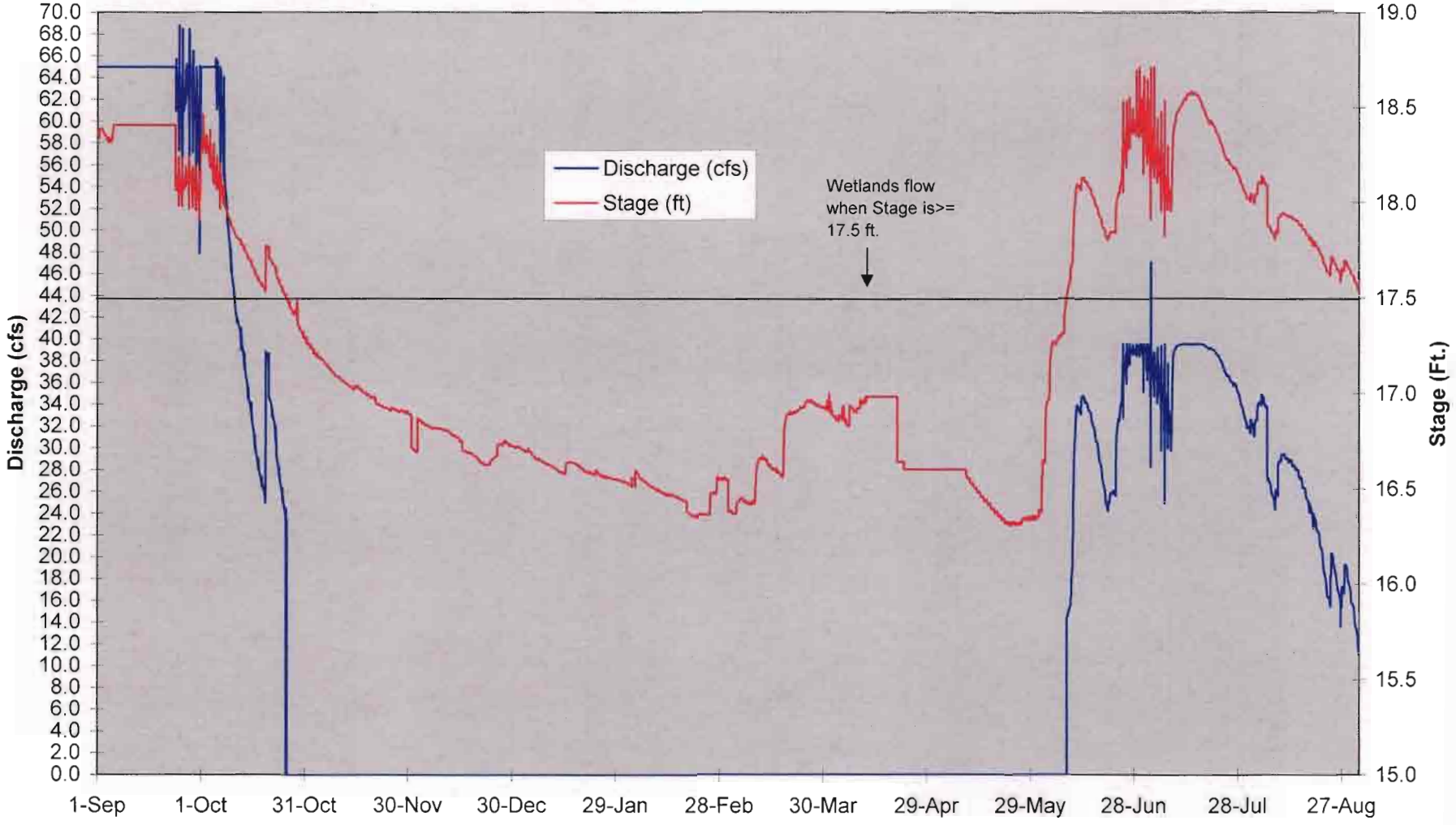
Graph 4.6B: Corkscrew Swamp Monitoring Station Discharge vs. Stage North Culvert Calibration Curve 6/1/2005-8/31/2005 Stage >2.96 Ft.



Graph 4.7B: Corkscrew Swamp Monitoring Station Discharge/Stage vs Time

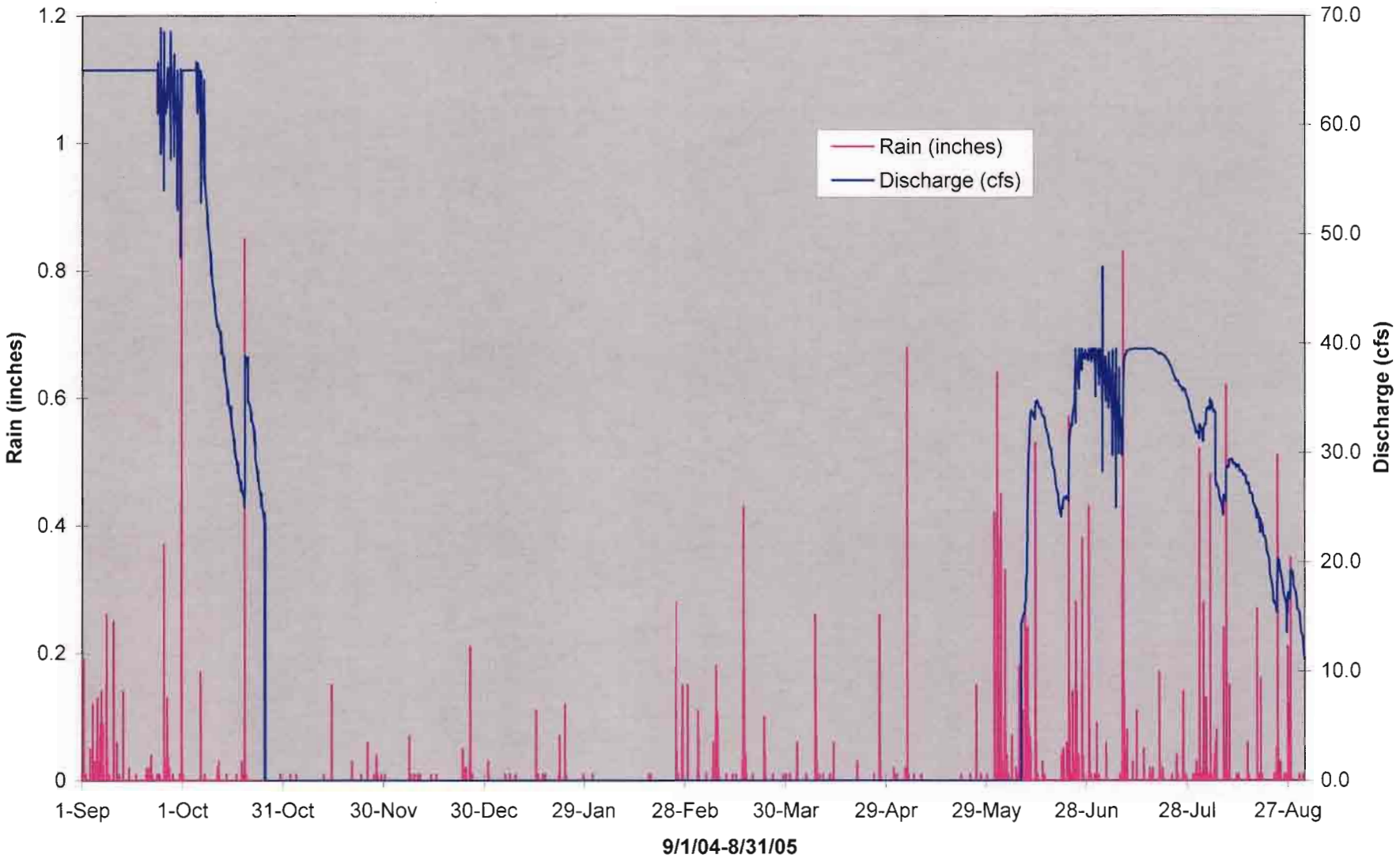


Graph 4.8B: Corkscrew Swamp Monitoring Station Discharge/Stage vs Time

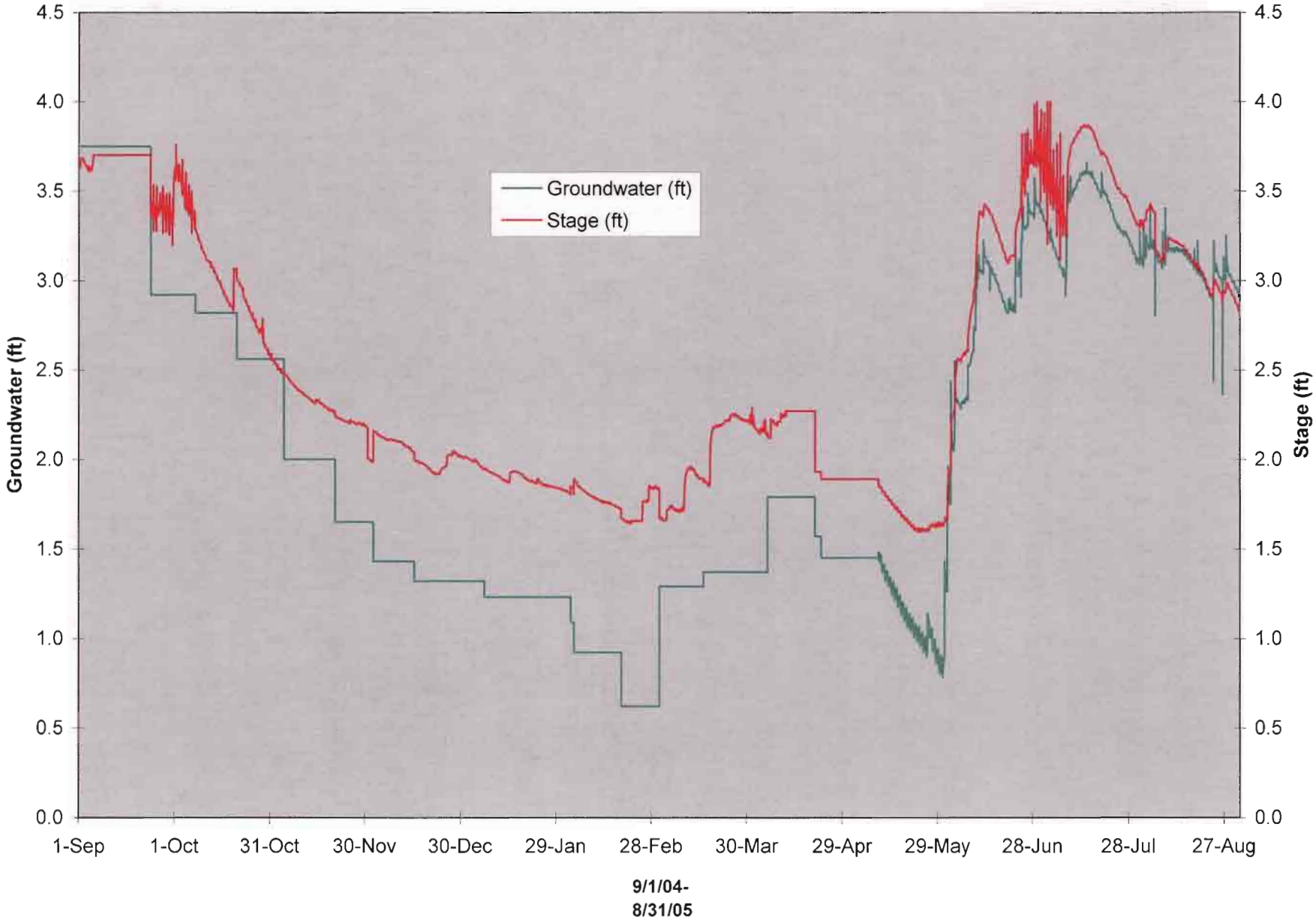


9/1/04-8/31/05

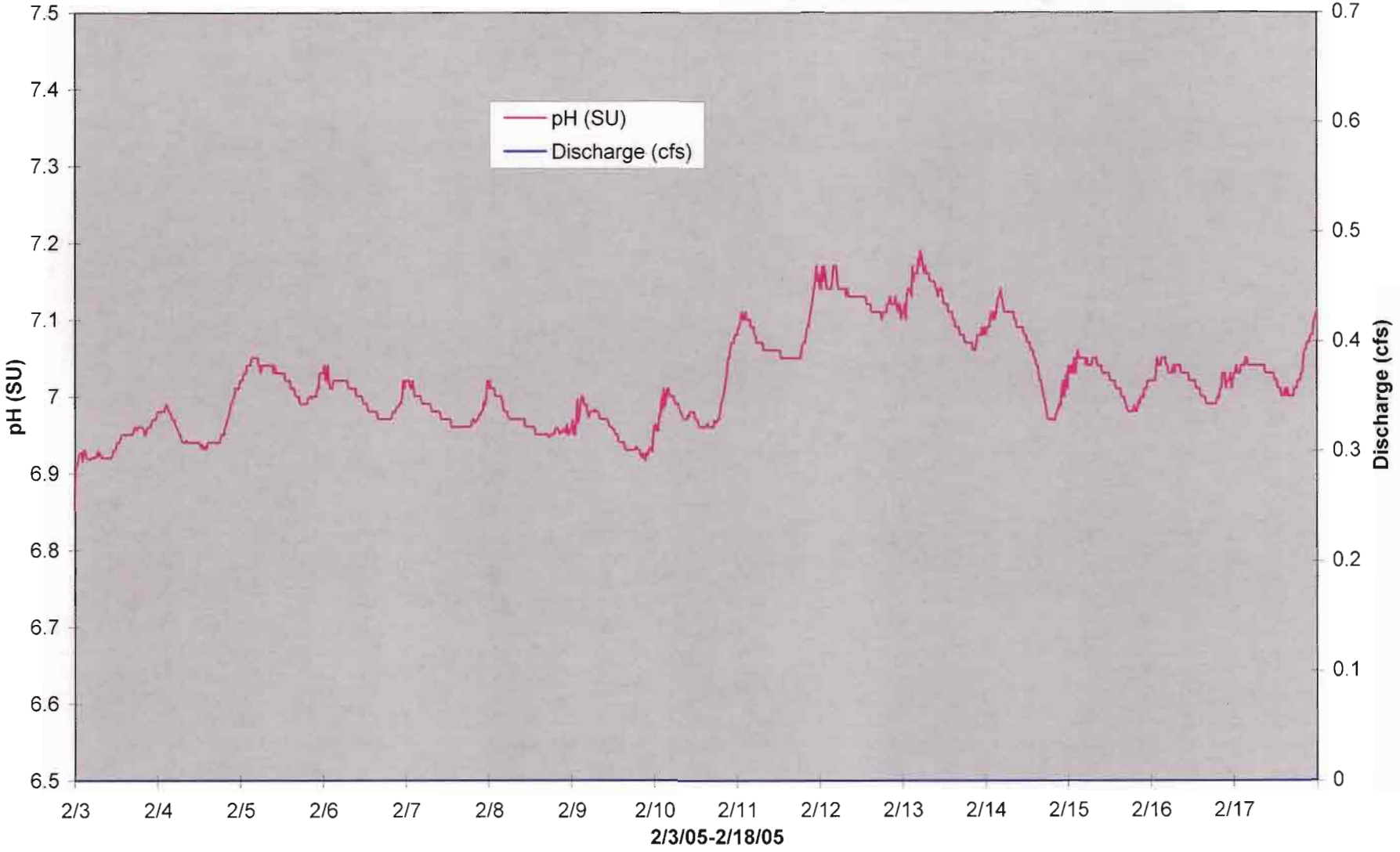
Graph 4.9B: Corkscrew Swamp Monitoring Station Rain\Discharge vs Time



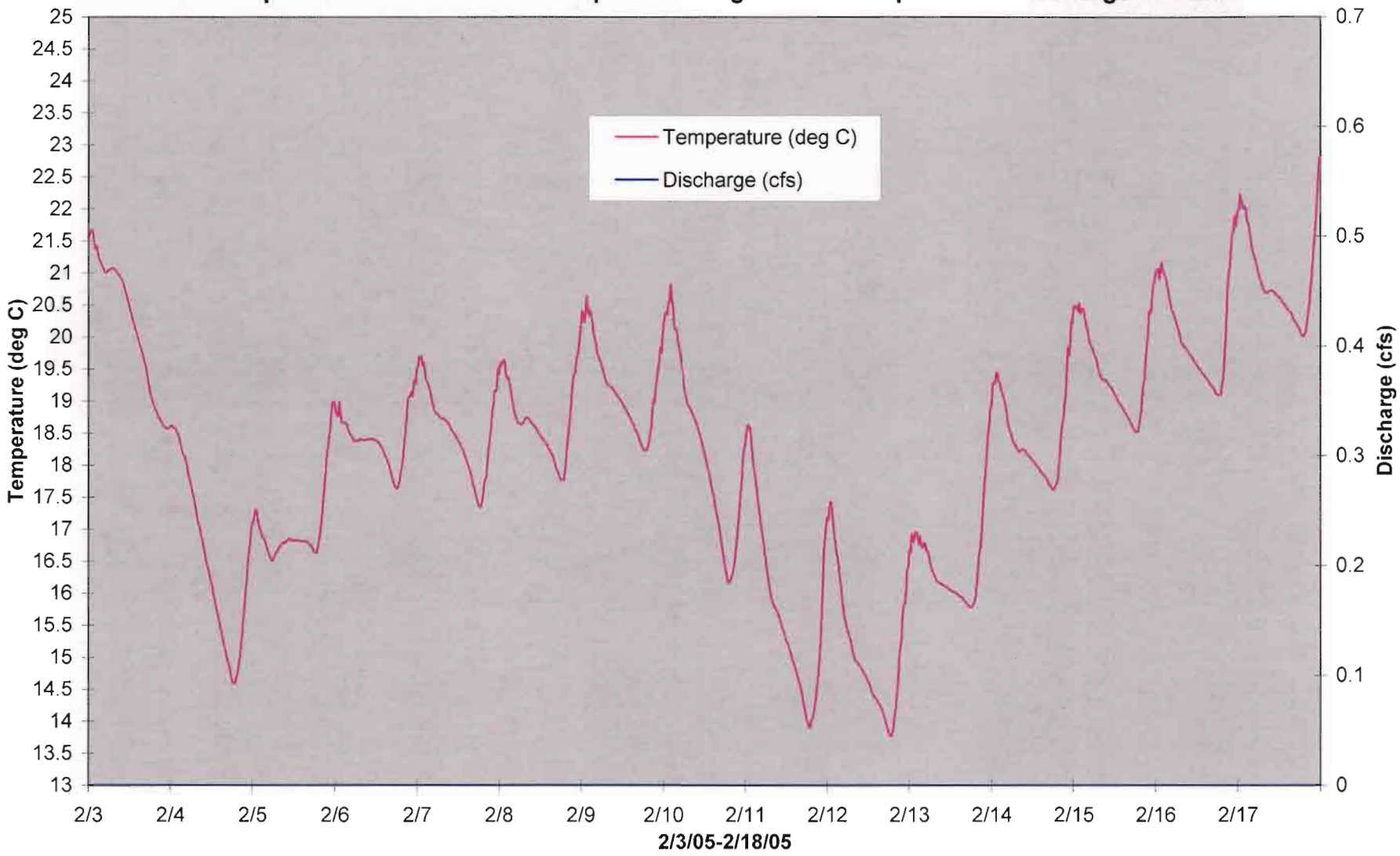
Graph 4.10B: Corkscrew Swamp Monitoring Station Groundwater/Stage Elevation vs Time



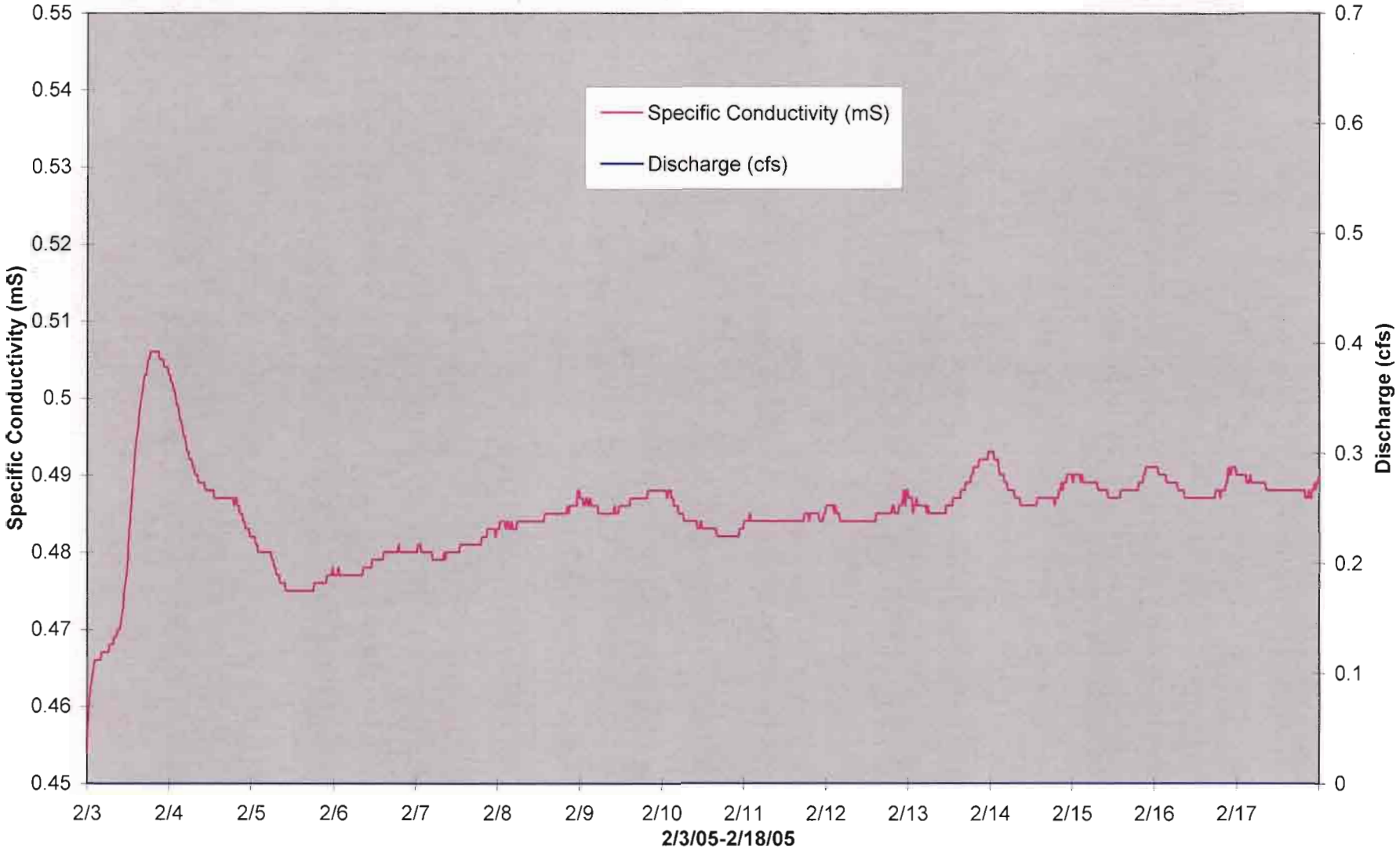
Graph 4.11B: Corkscrew Swamp Monitoring Station pH\ Discharge vs Time



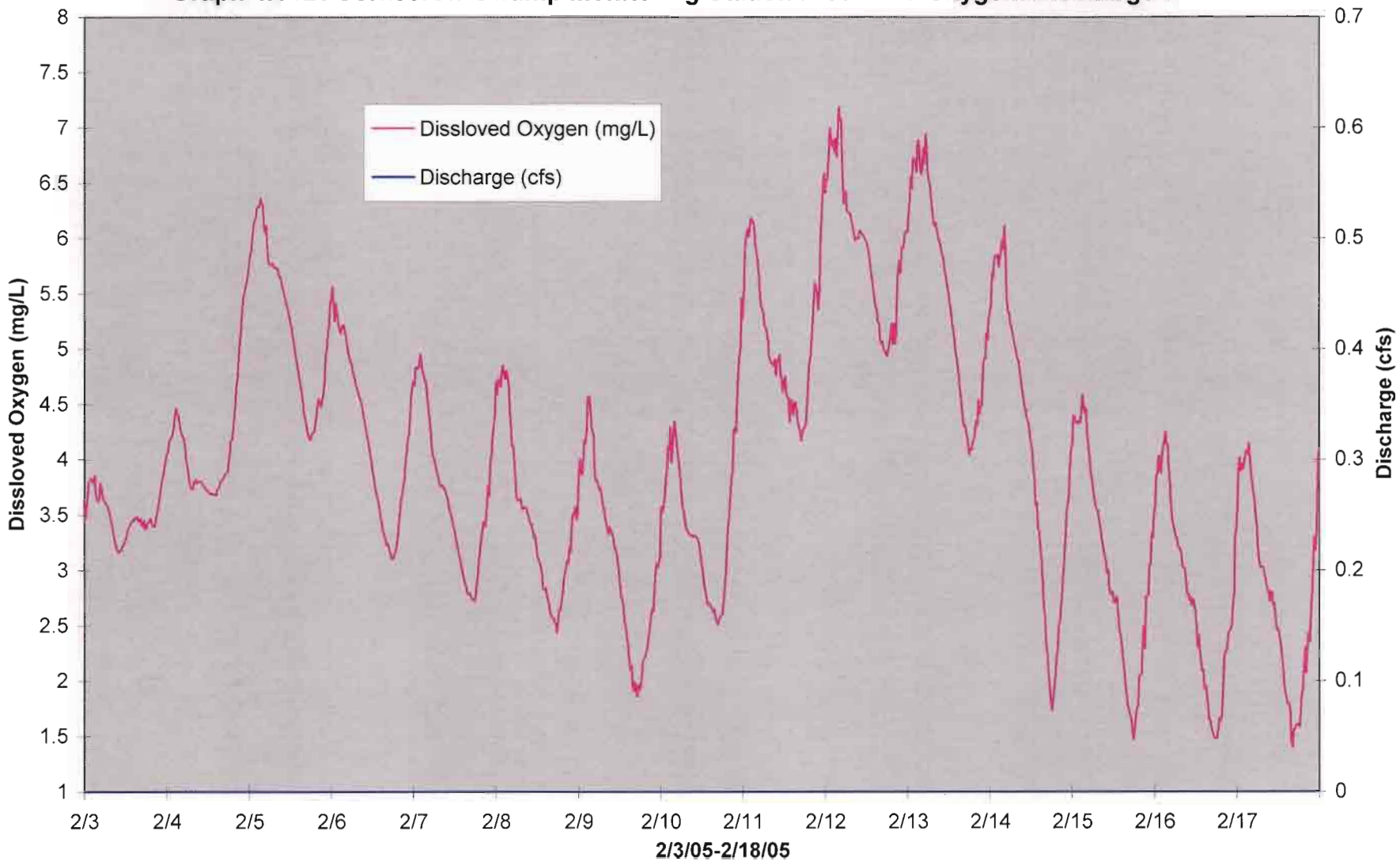
Graph 4.12B: Corkscrew Swamp Monitoring Station Temperature\ Discharge vs Time



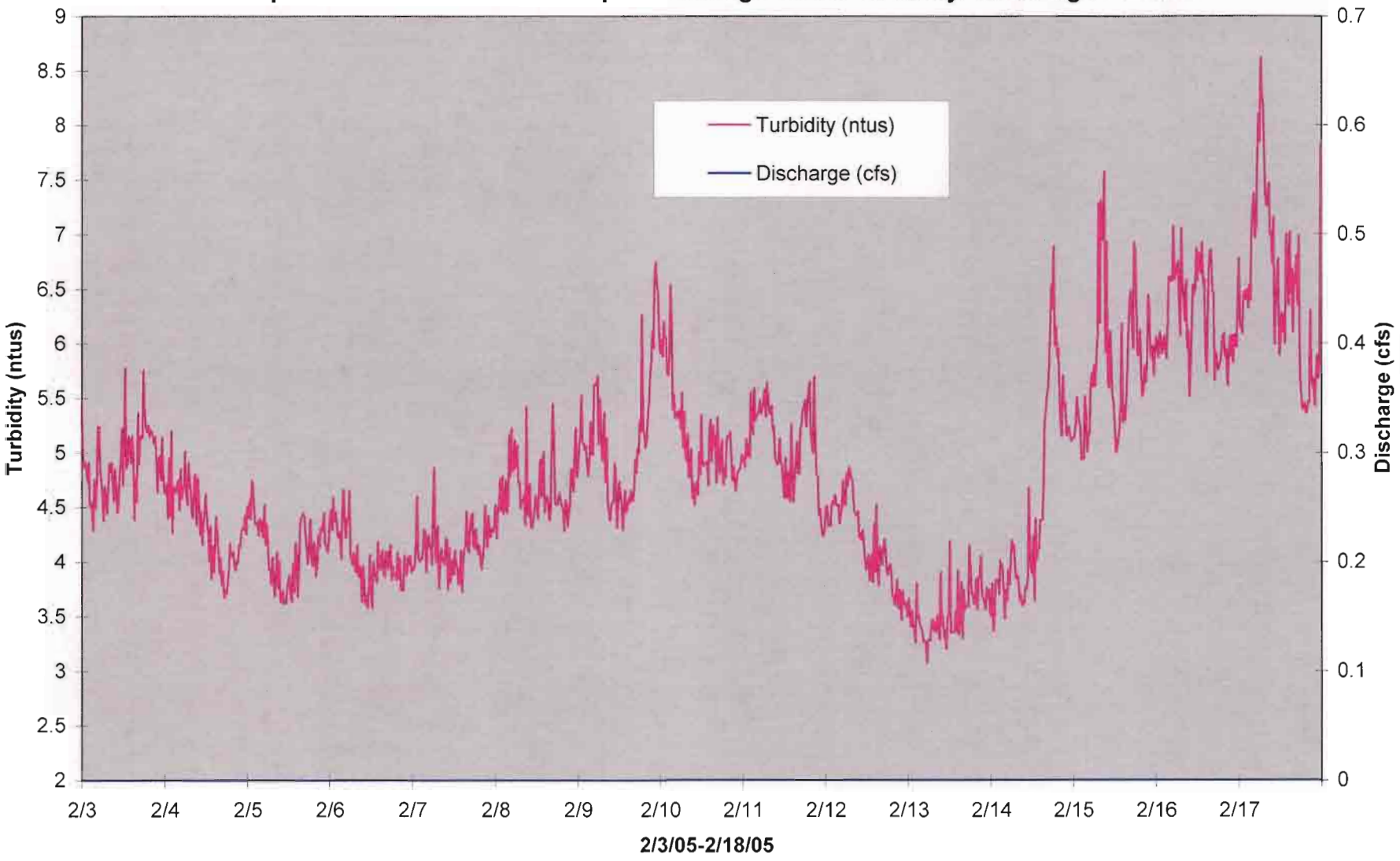
Graph 4.13B: Corkscrew Swamp Monitoring Station Specific Conductivity\ Discharge vs Time



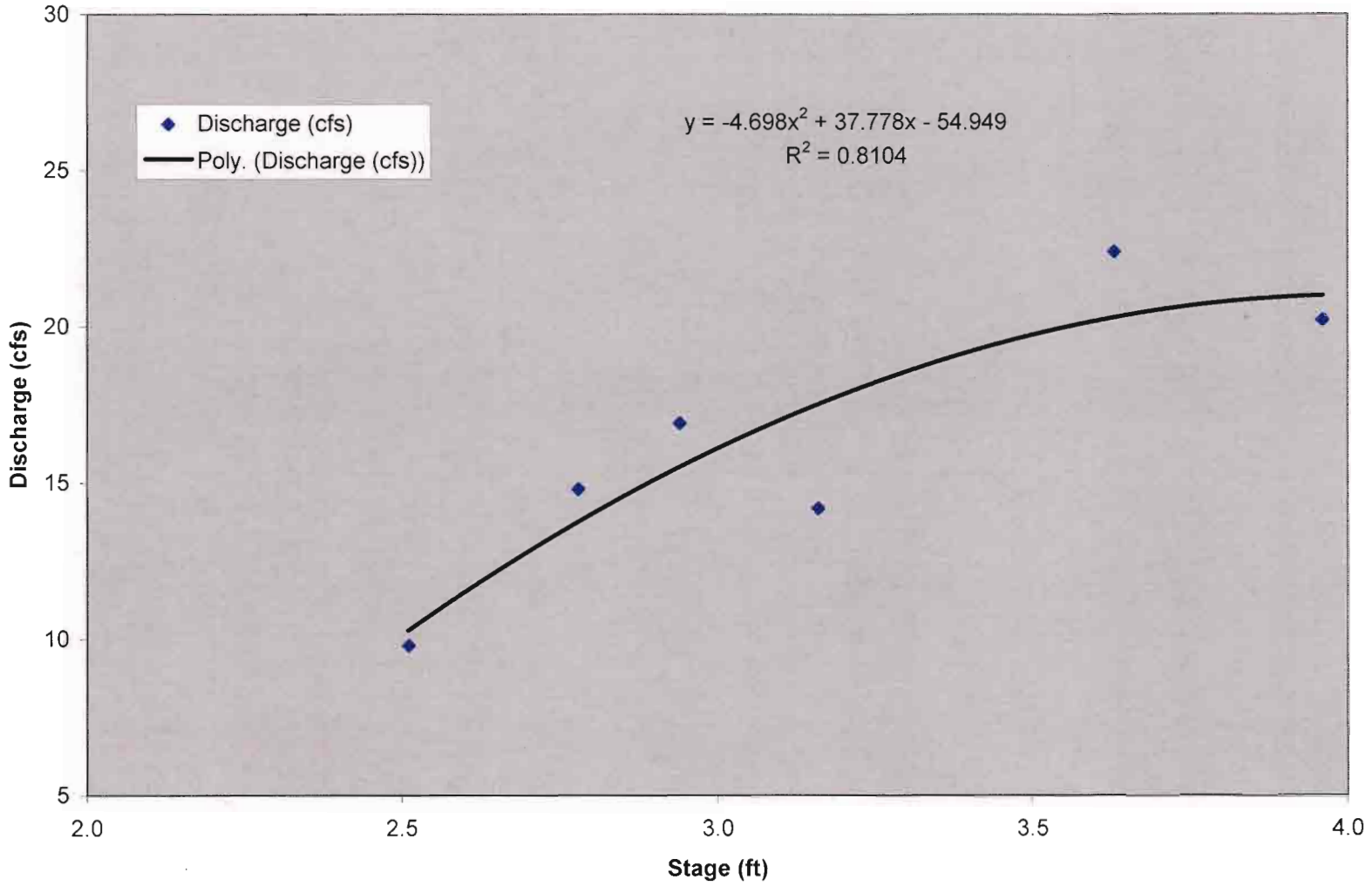
Graph 4.14B: Corkscrew Swamp Monitoring Station Dissolved Oxygen\ Discharge vs Time



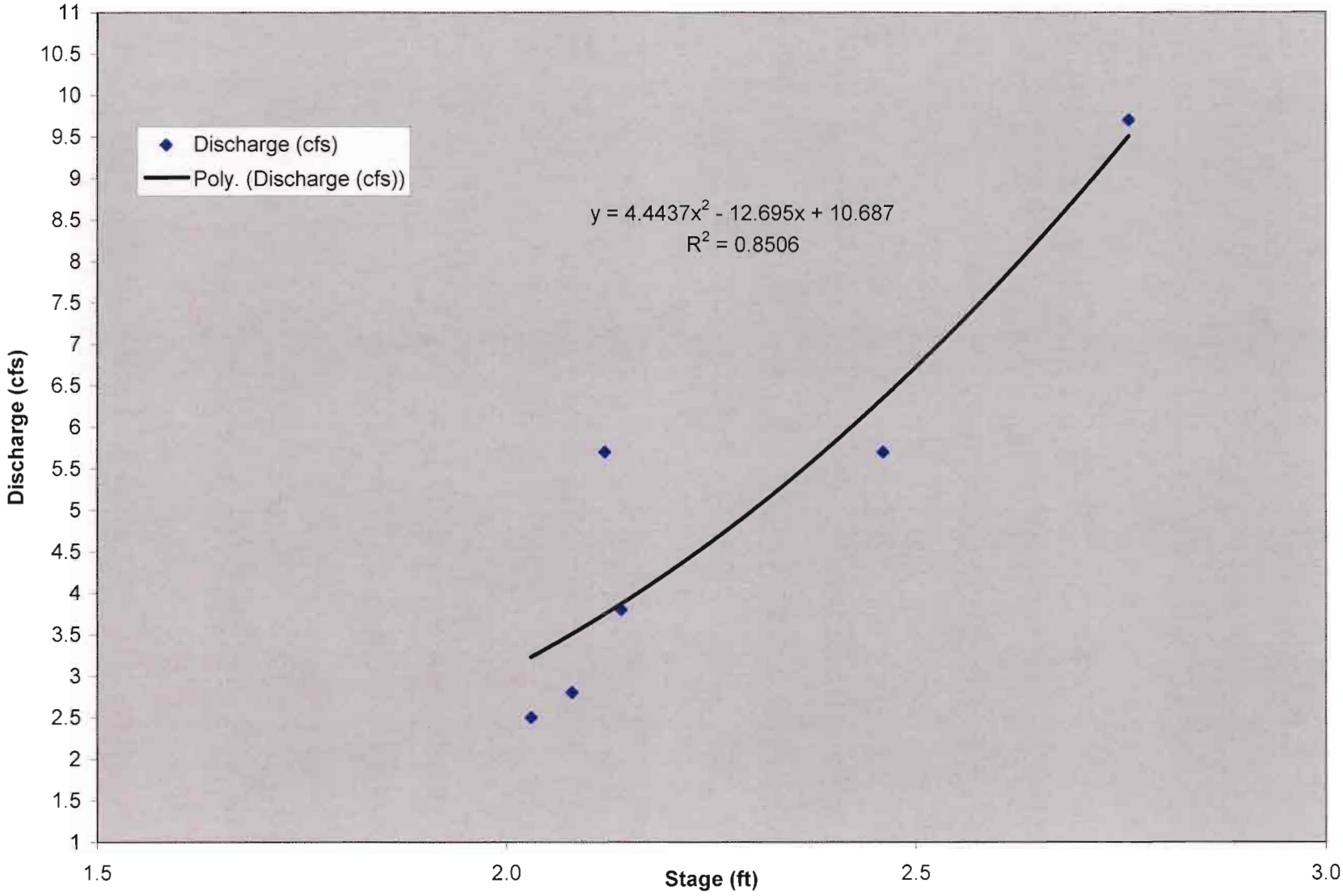
Graph 4.15B: Corkscrew Swamp Monitoring Station Turbidity\ Discharge vs Time



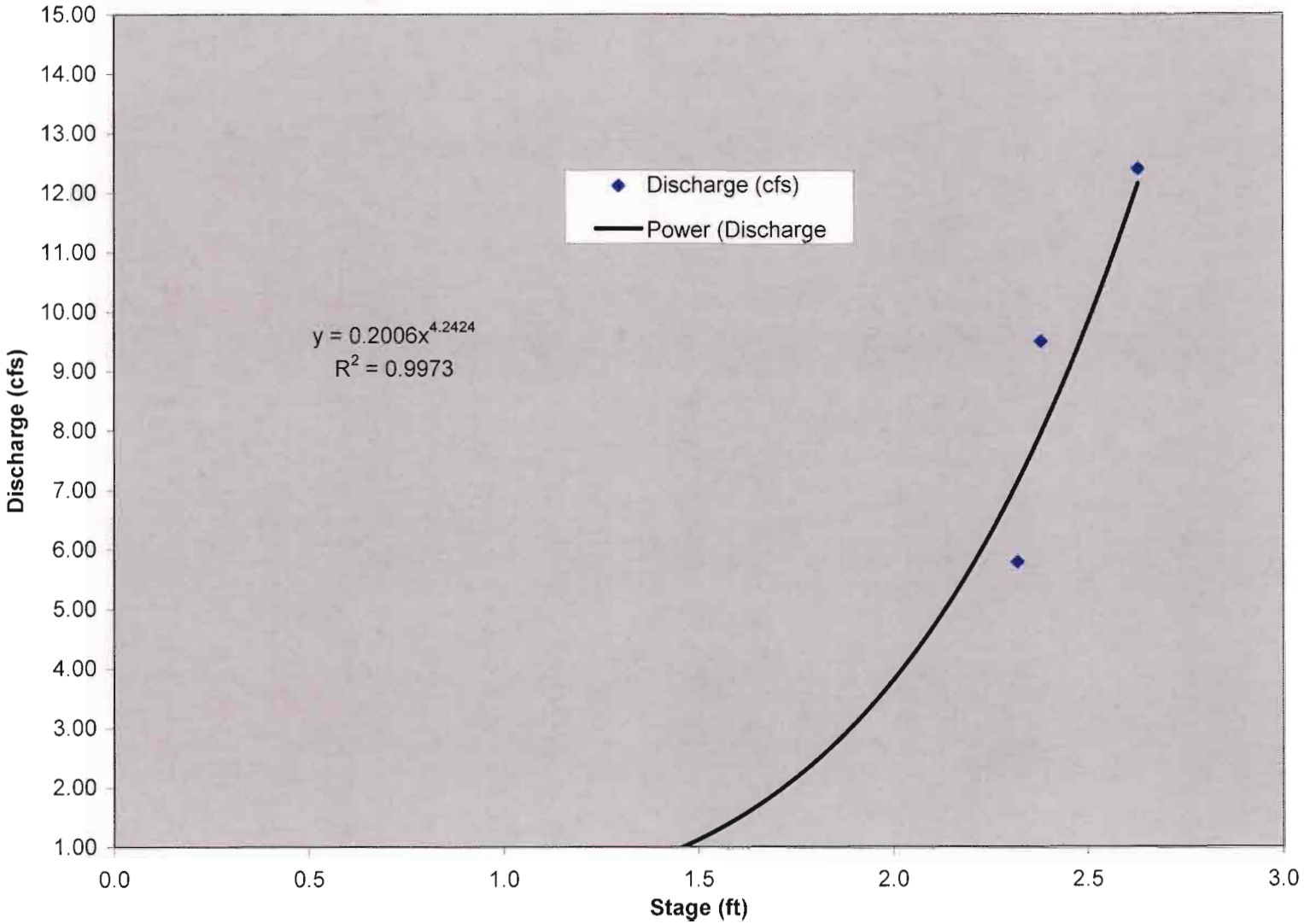
Graph 4.1C: Corkscrew Swamp Monitoring Station Discharge vs. Stage South Culvert Calibration Curve 9/1/05-11/30/05



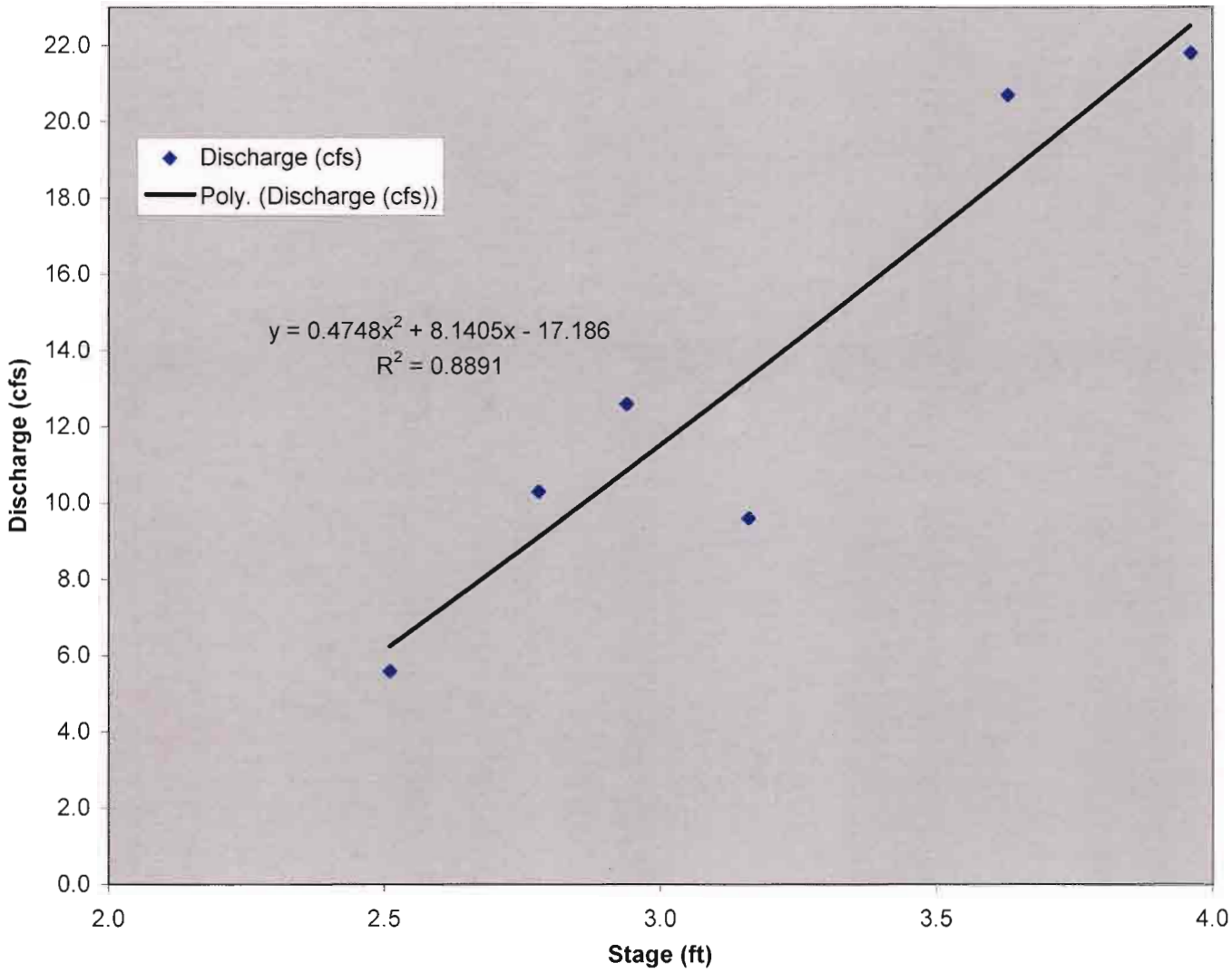
Graph 4.2C: Corkscrew Swamp Monitoring Station Discharge vs. Stage South Culvert Calibration Curve 12/1/05-2/28/06



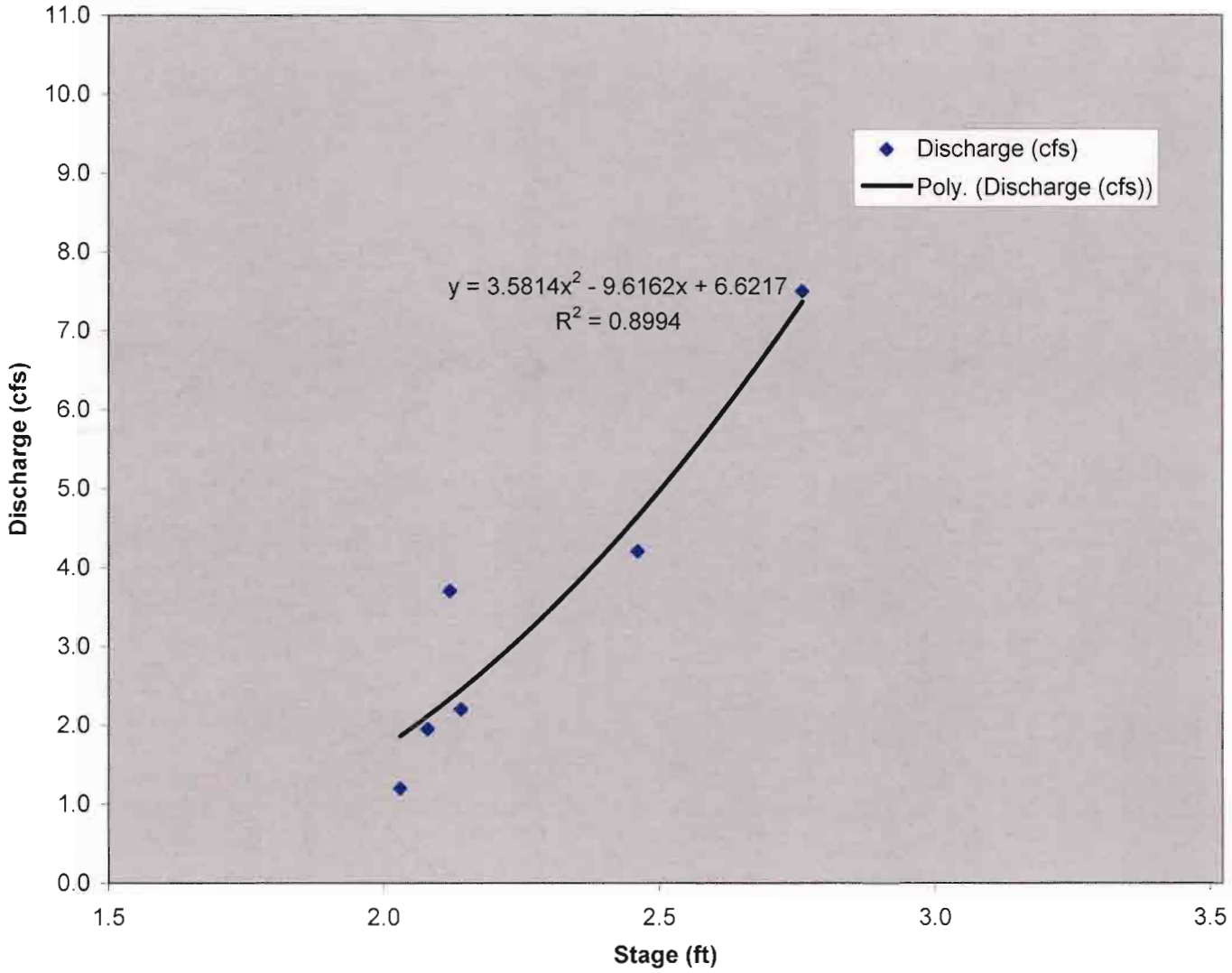
Graph 4.3C: Corkscrew Swamp Monitoring Station Discharge vs. Stage South Culvert Calibration Curve 6/1/06-8/31/06



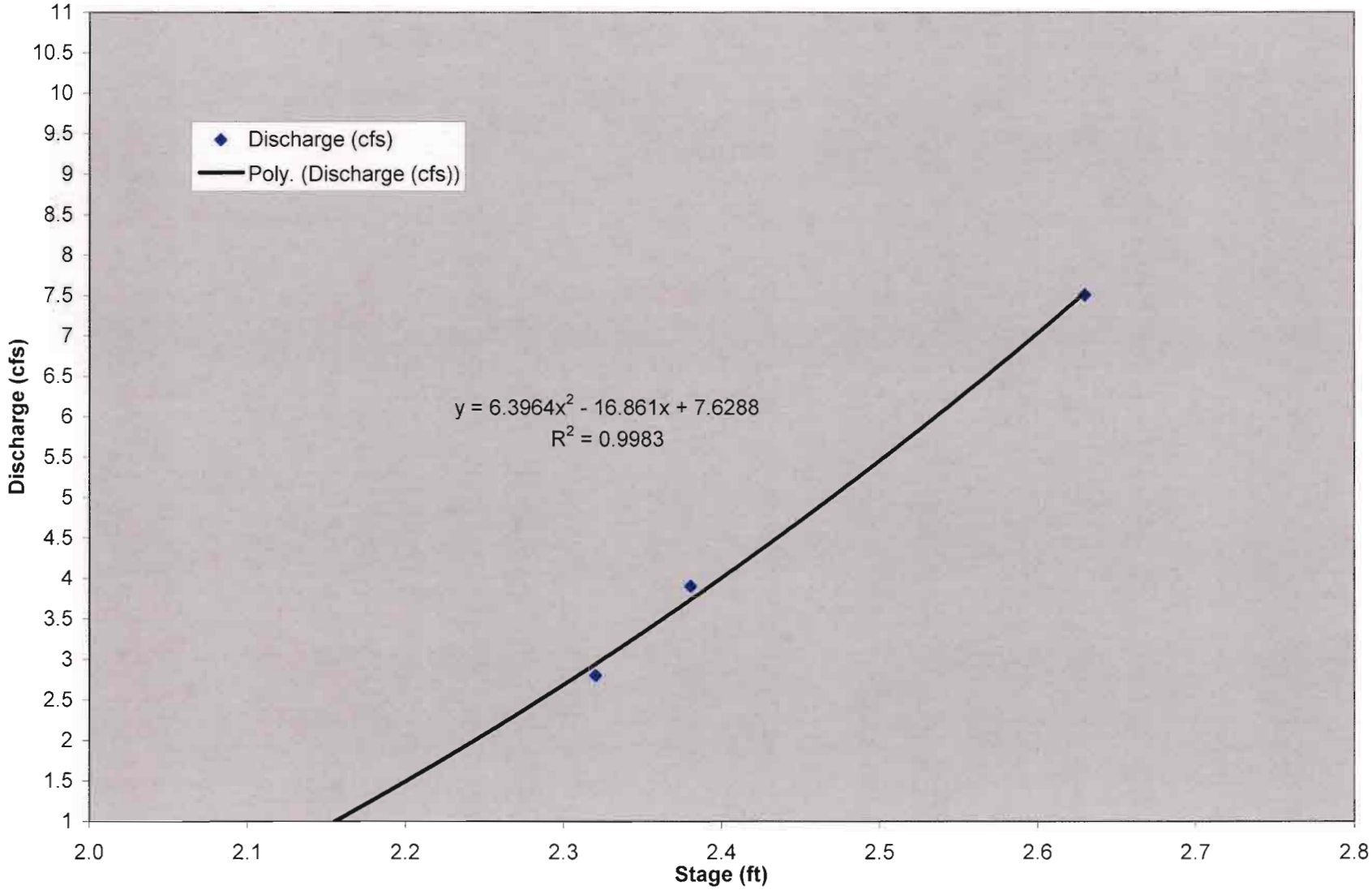
Graph 4.4C: Corkscrew Swamp Monitoring Station Discharge vs. Stage North Culvert Calibration Curve 9/1/05-11/30/05



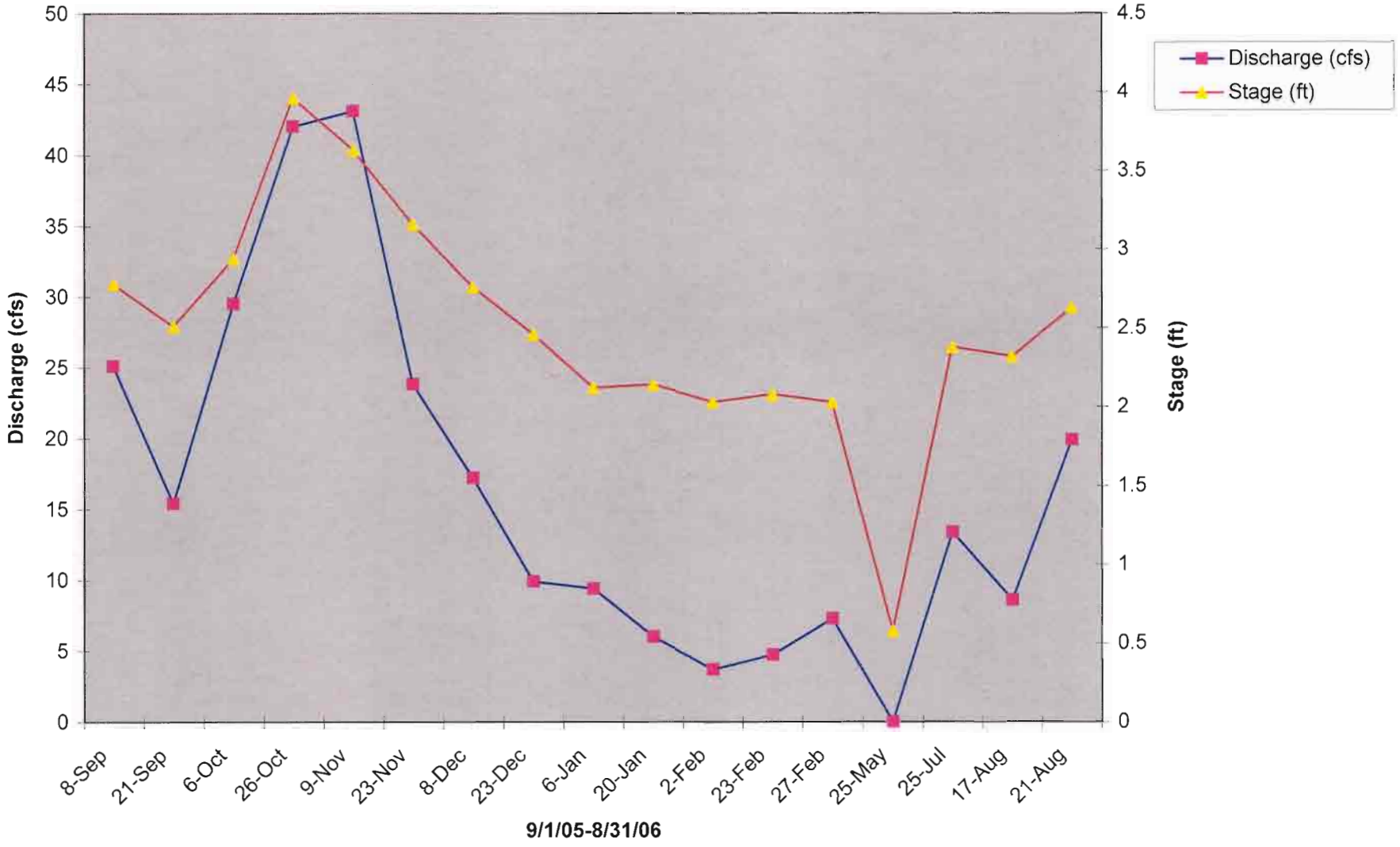
Graph 4.5C: Corkscrew Swamp Monitoring Station Discharge vs. Stage North Culvert Calibration Curve 12/1/05-2/28/06



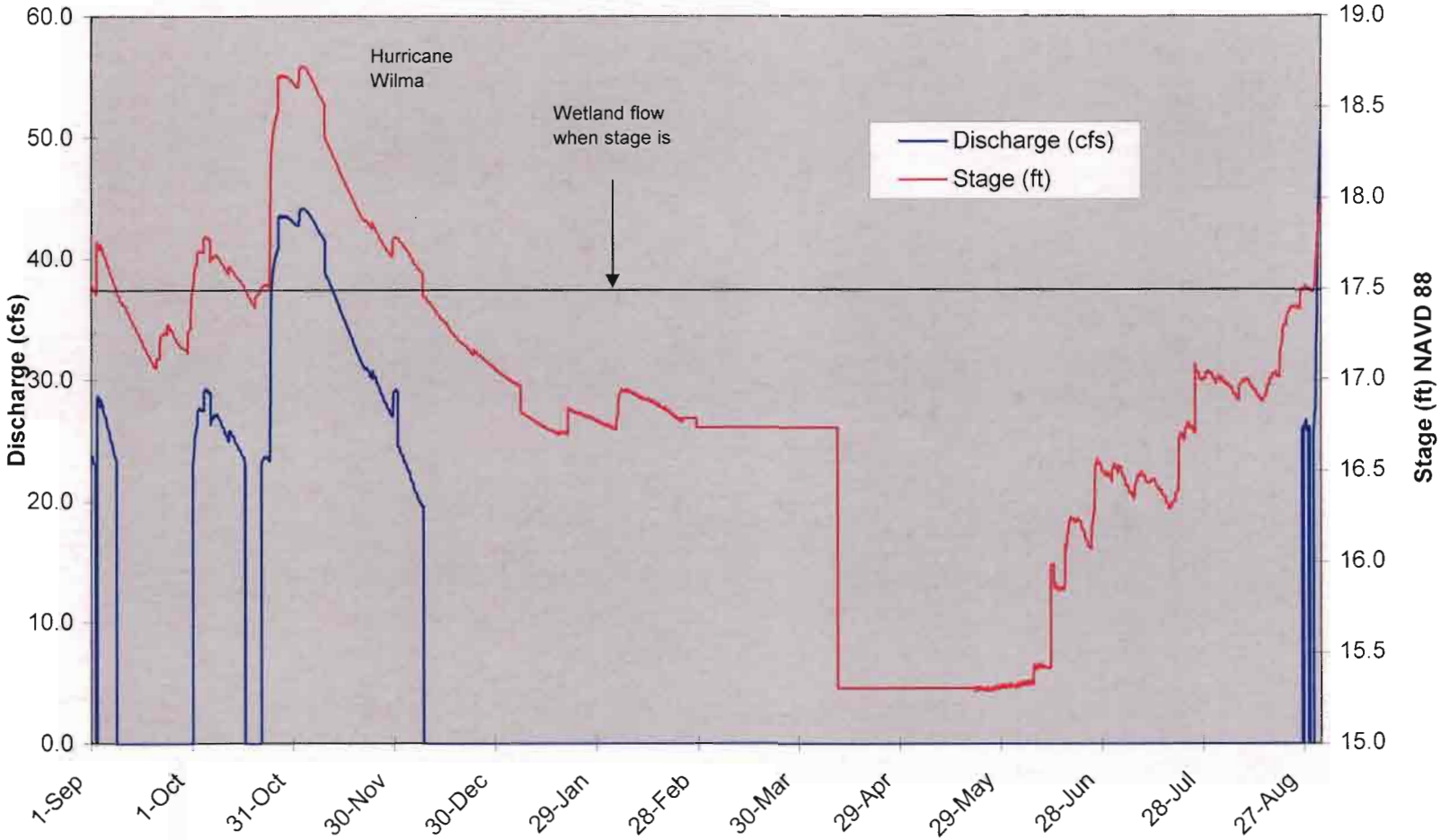
Graph 4.6C: Corkscrew Swamp Monitoring Station Discharge vs. Stage North Culvert Calibration Curve 6/1/06-8/31/06 for Stage >= 2.06 ft.



Graph 4.7C: Corkscrew Swamp Monitoring Station Discharge/Stage vs Time

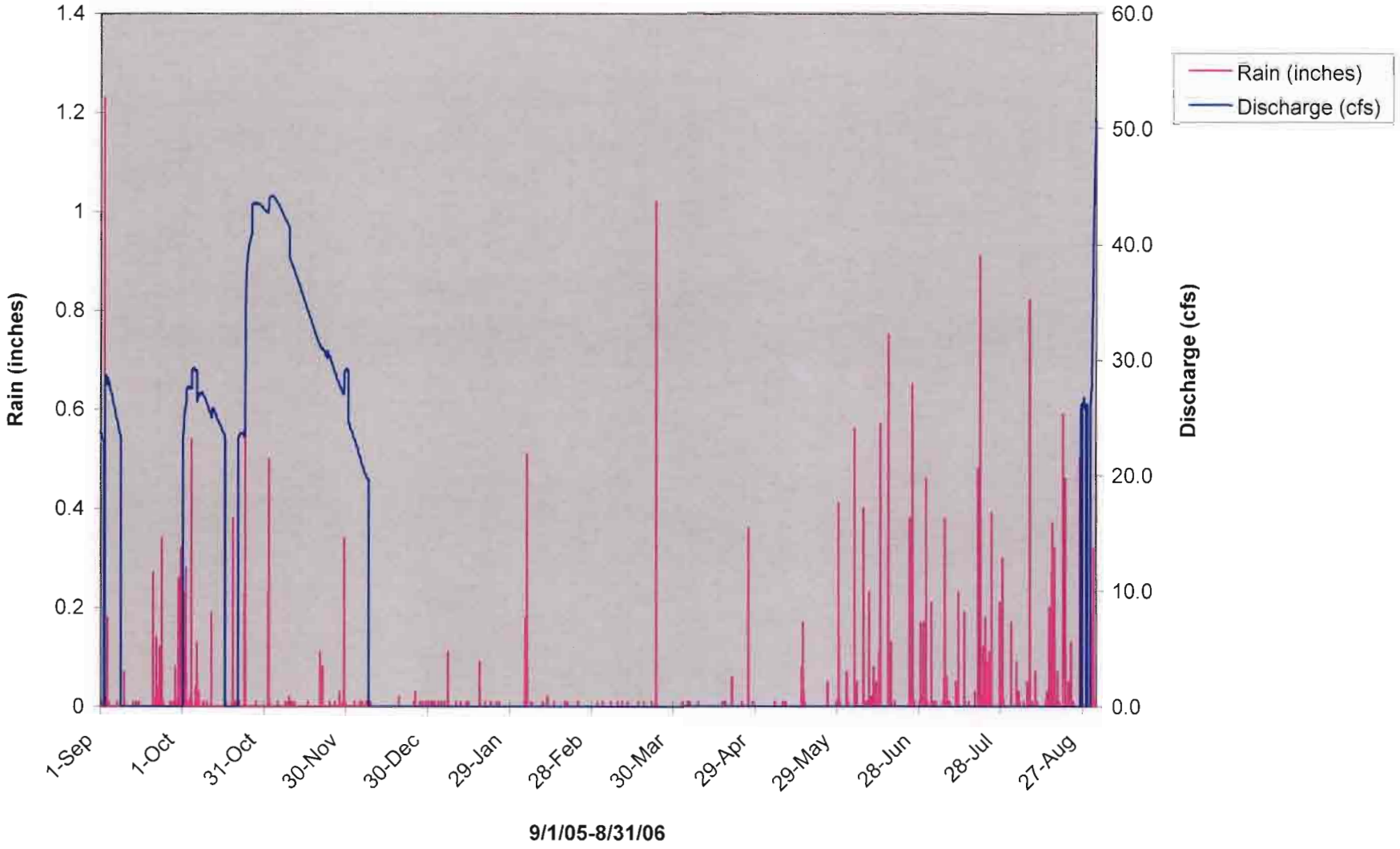


Graph 4.8C: Corkscrew Swamp Monitoring Station Discharge/Stage vs Time

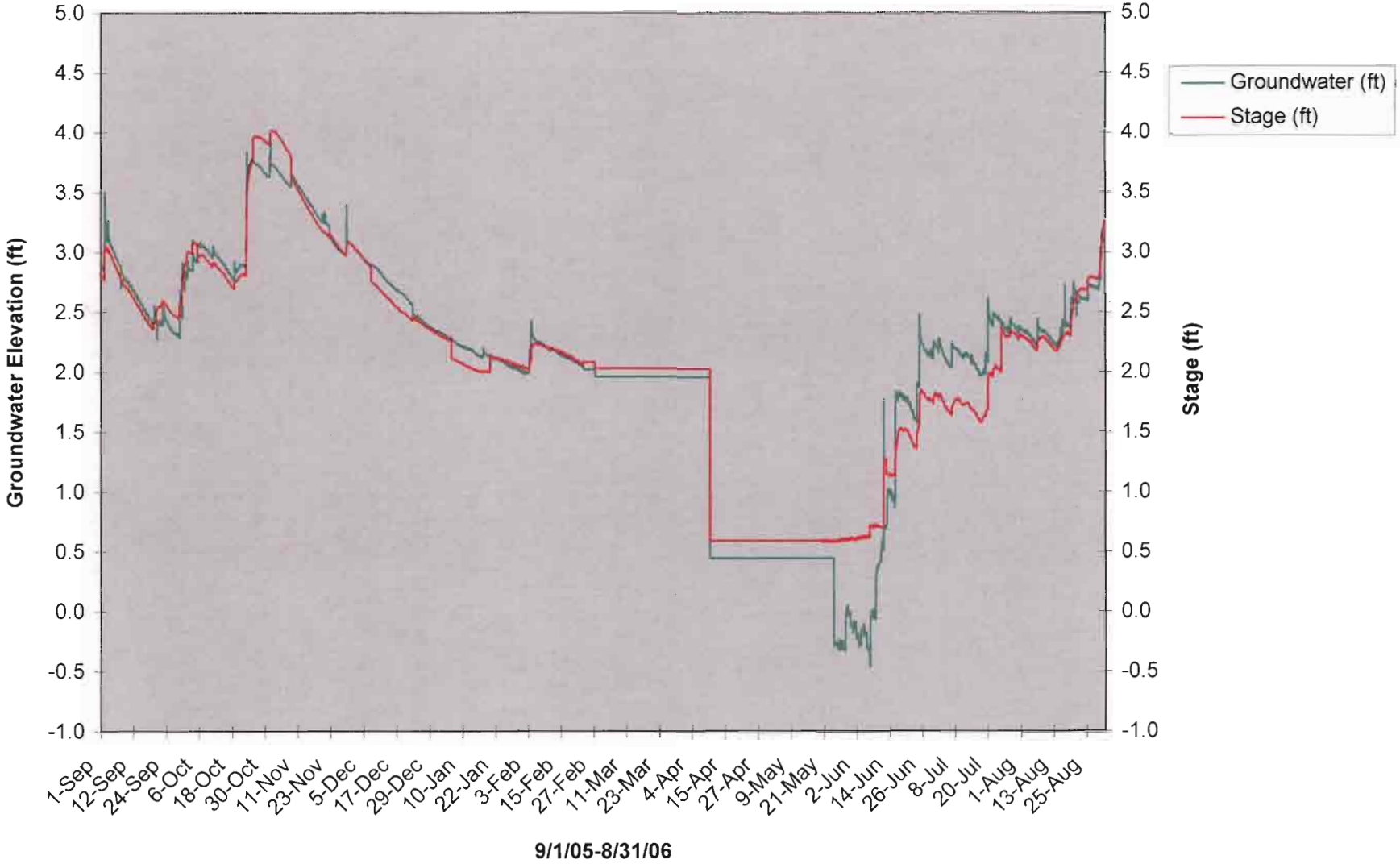


9/1/05-8/31/06

Graph 4.9C: Corkscrew Swamp Monitoring Station Rain\Discharge vs Time

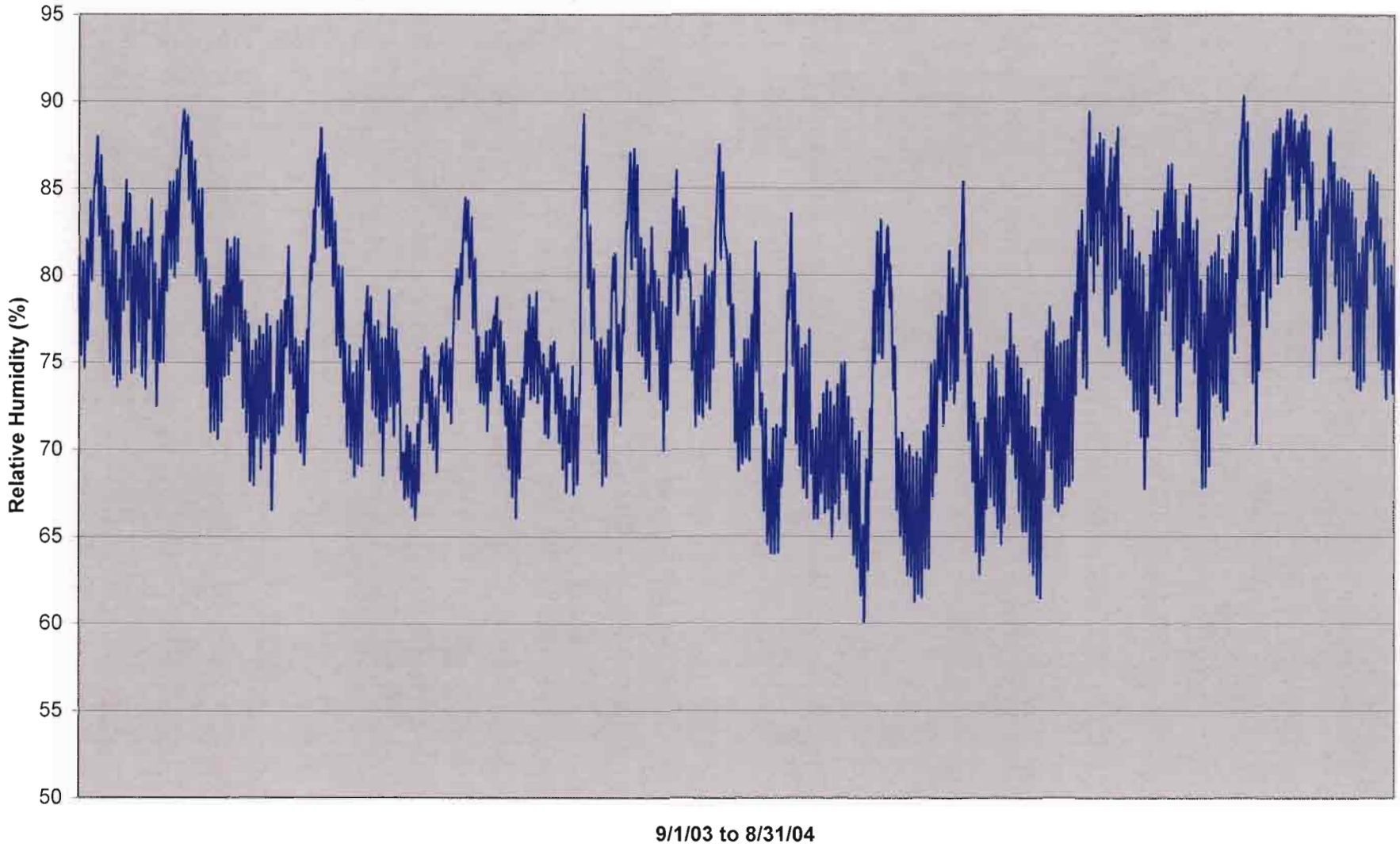


Graph 4.10C: Corkscrew Swamp Monitoring Station Groundwater/Stage Elevation vs Time

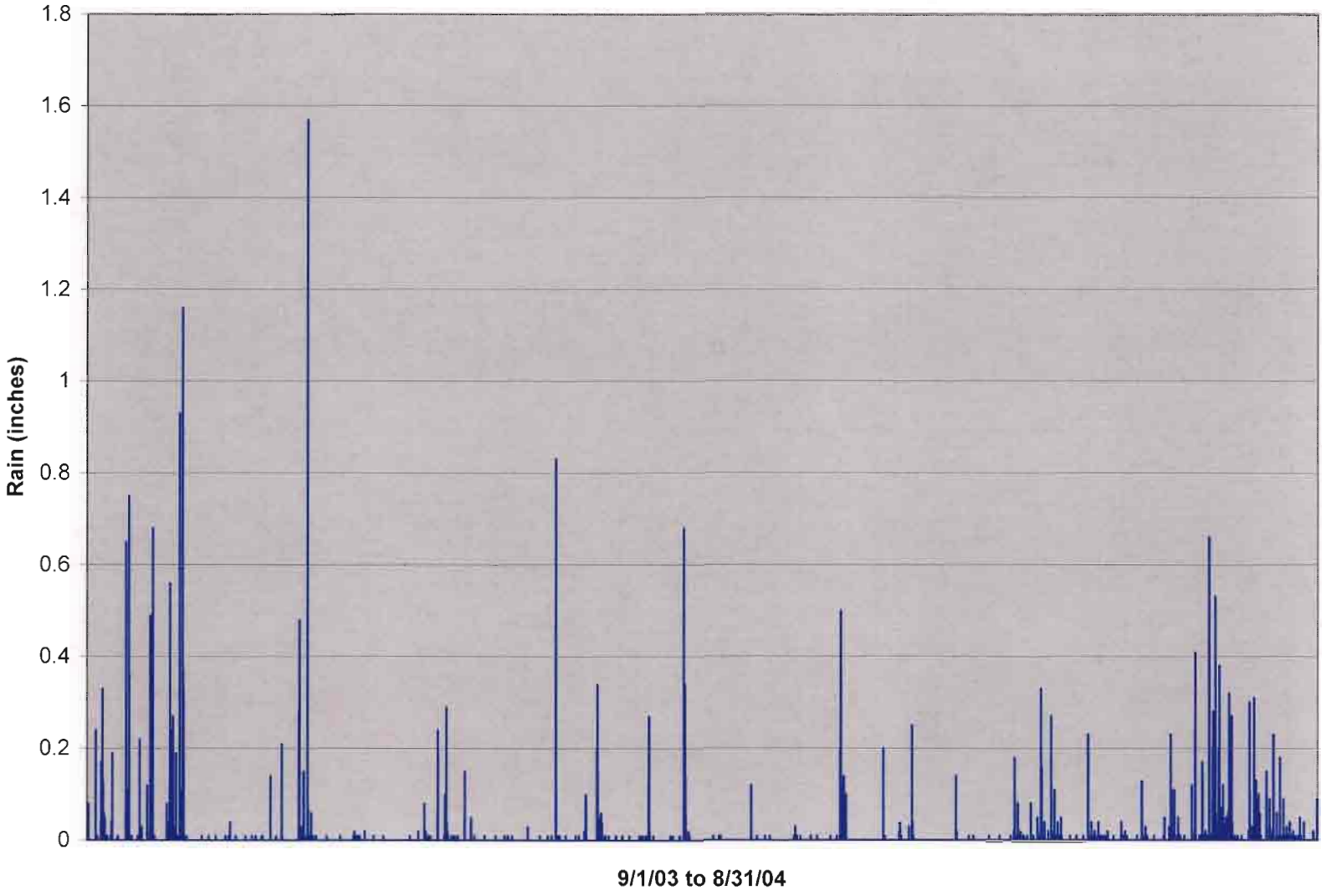


A.5 CORKSCREW SWAMP WEATHER STATION GRAPHS

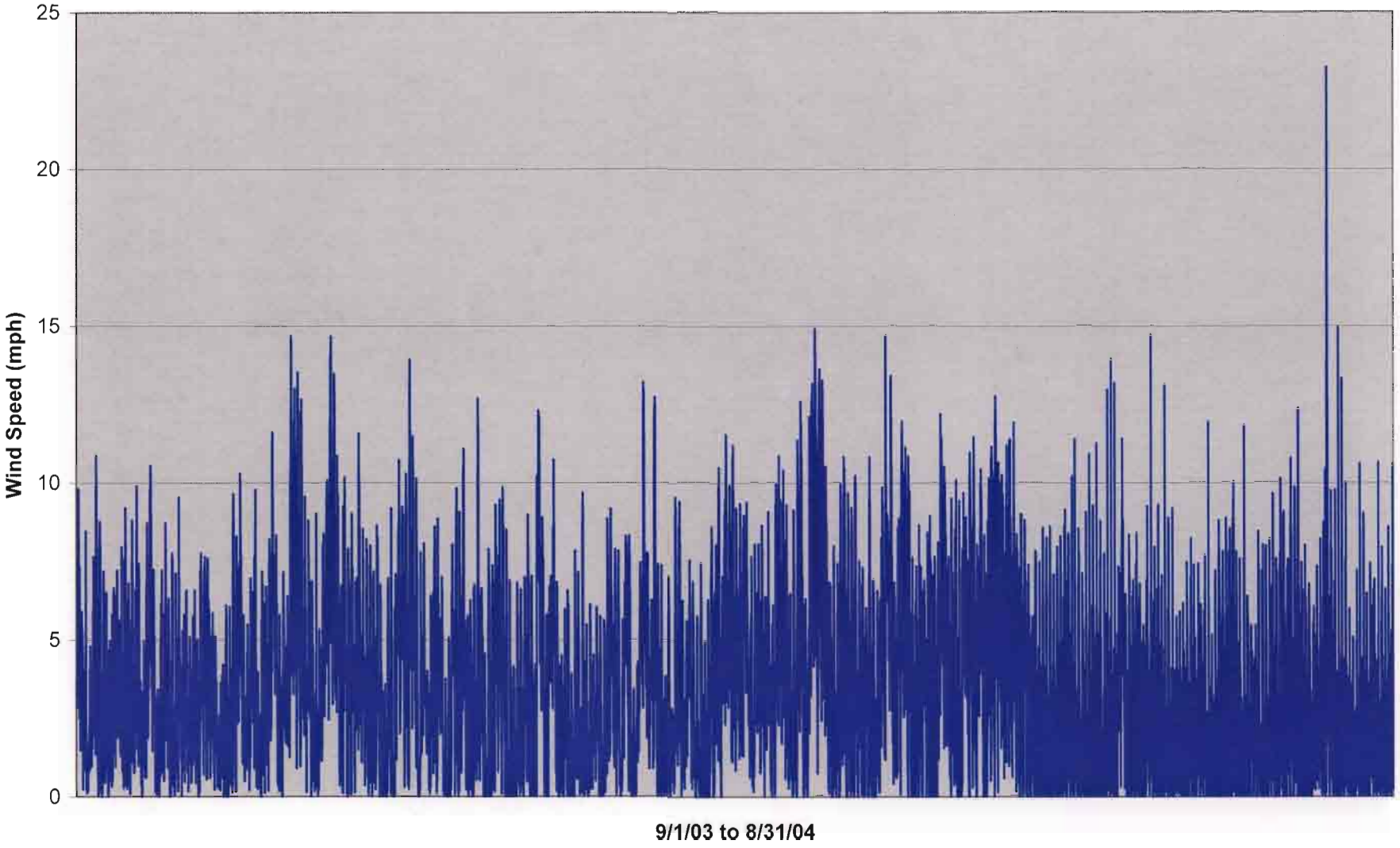
Graph 5.2A: Corkscrew Weather Station Relative Humidity



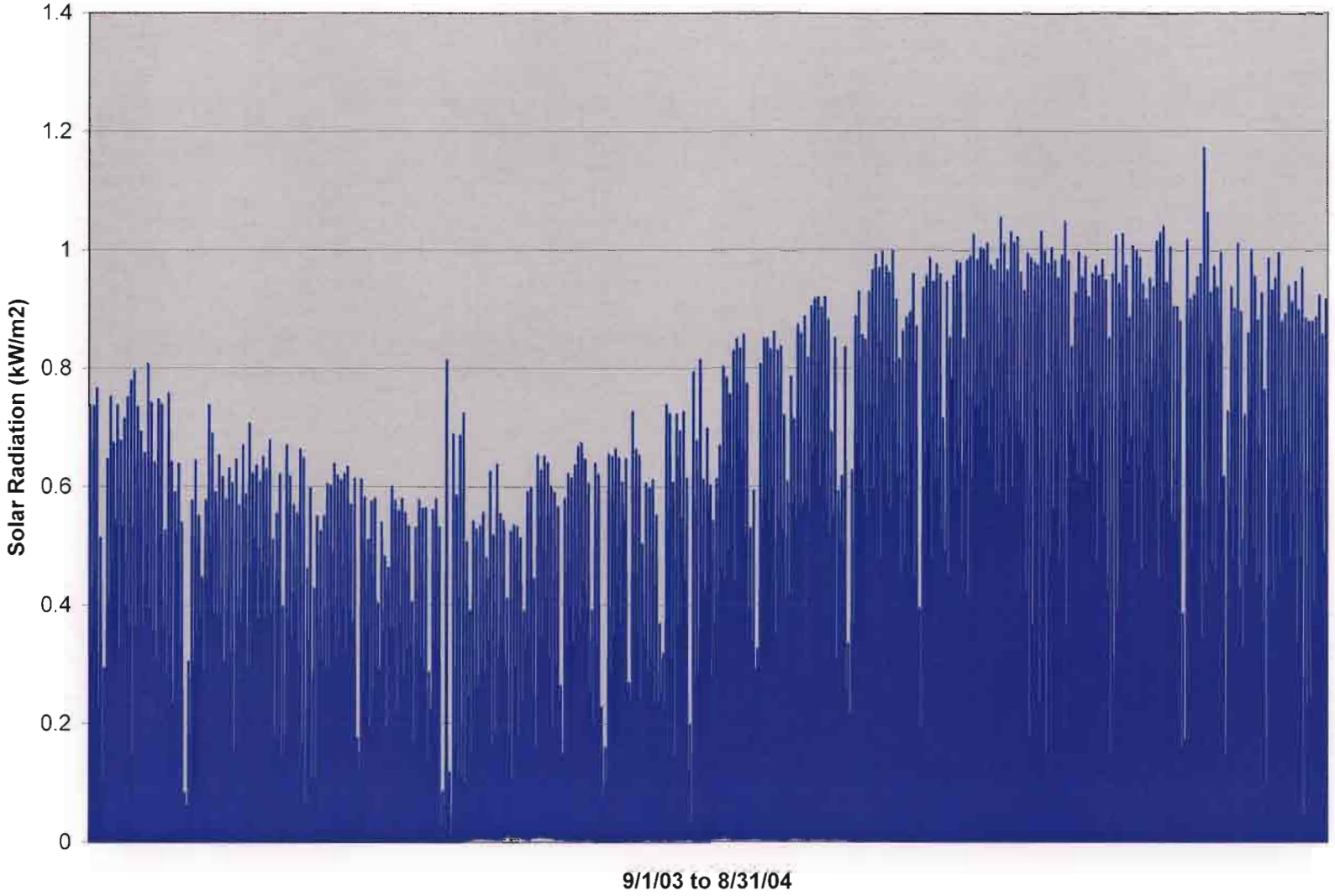
Graph 5.3A: Corkscrew Weather Station Rain



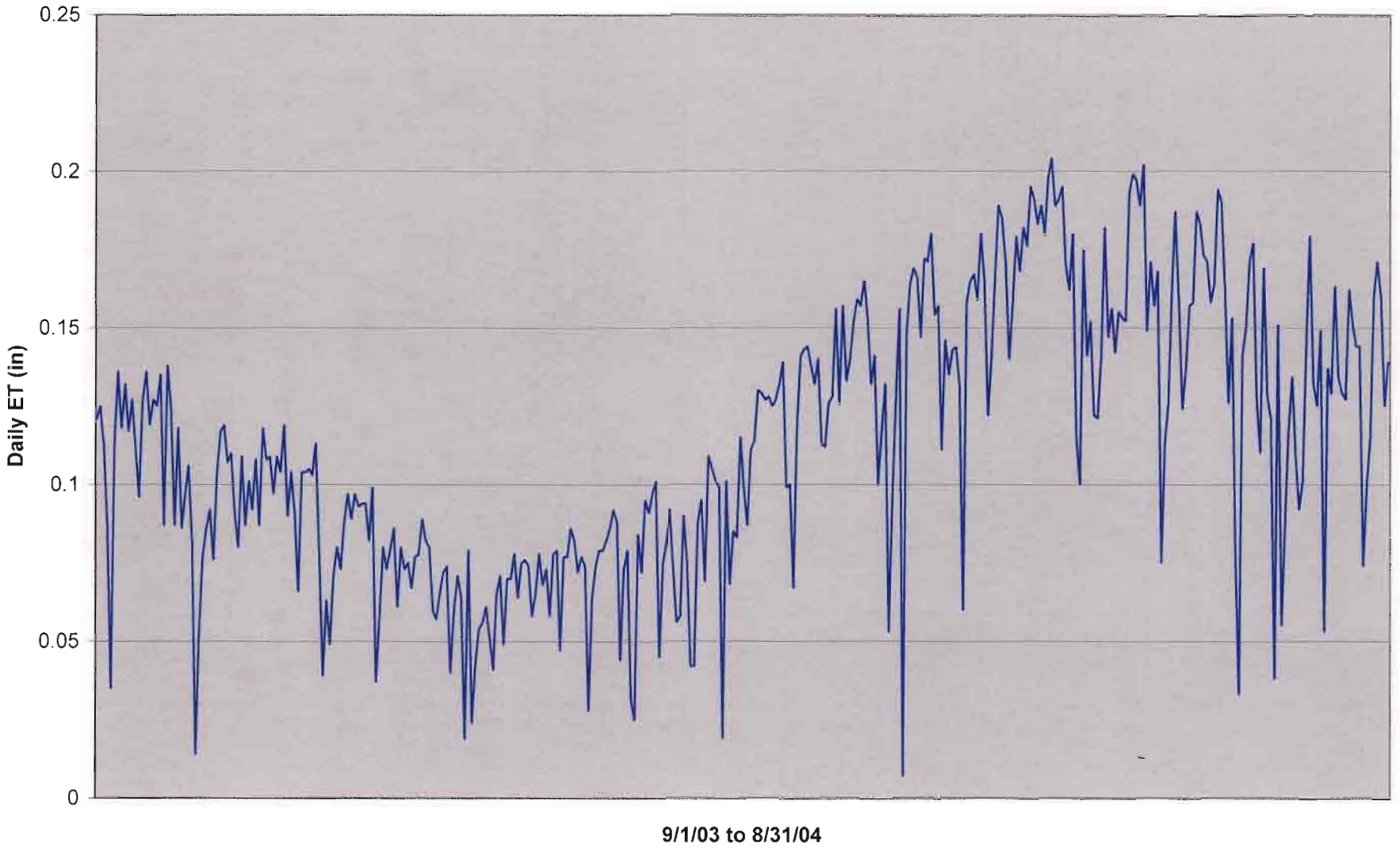
Graph 5.4A: Corkscrew Weather Station Wind Speed



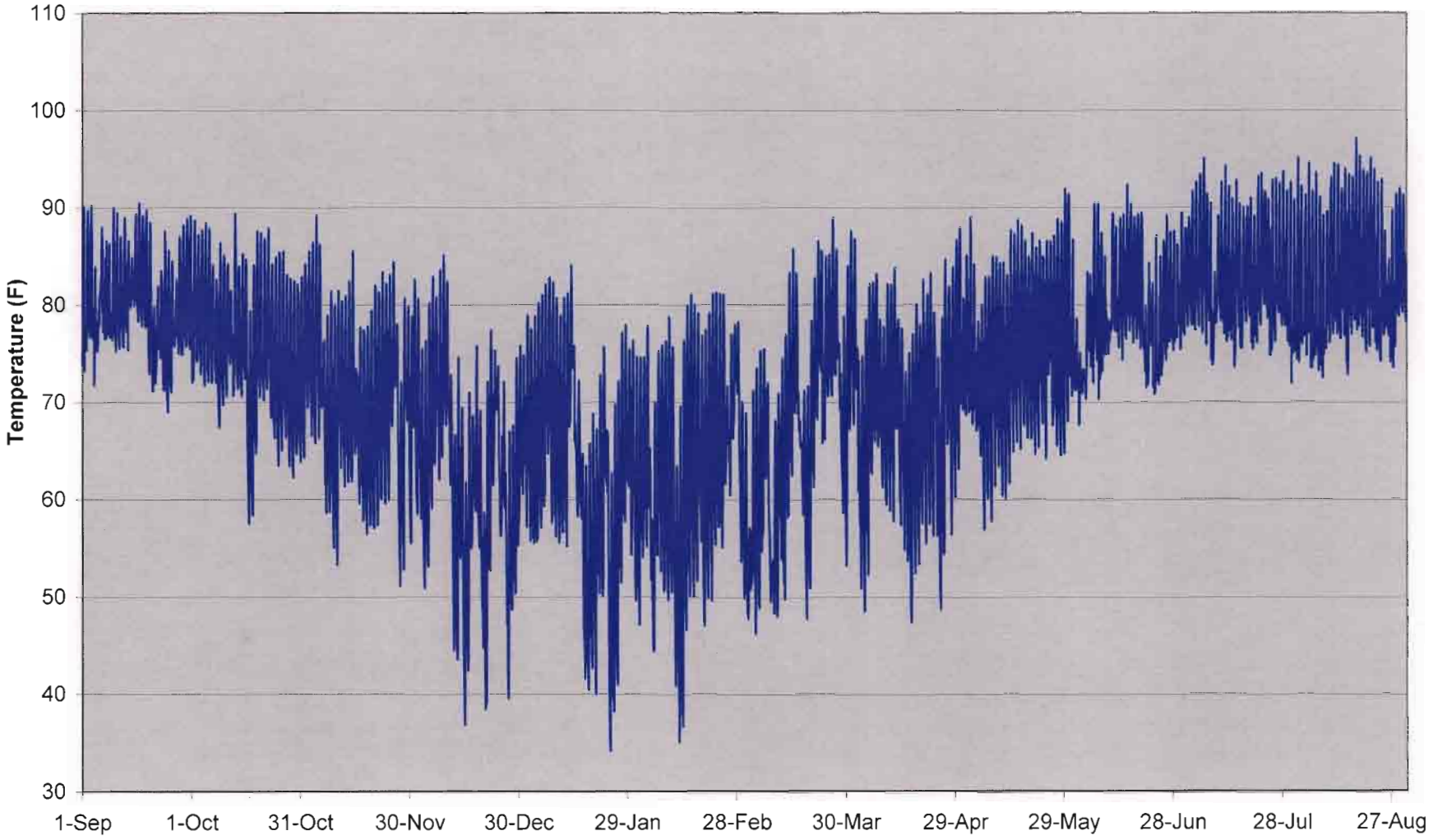
Graph 5.5A: Corkscrew Weather Station Solar Radiation



Graph 5.6A: Corkscrew Weather Station Evapotranspiration

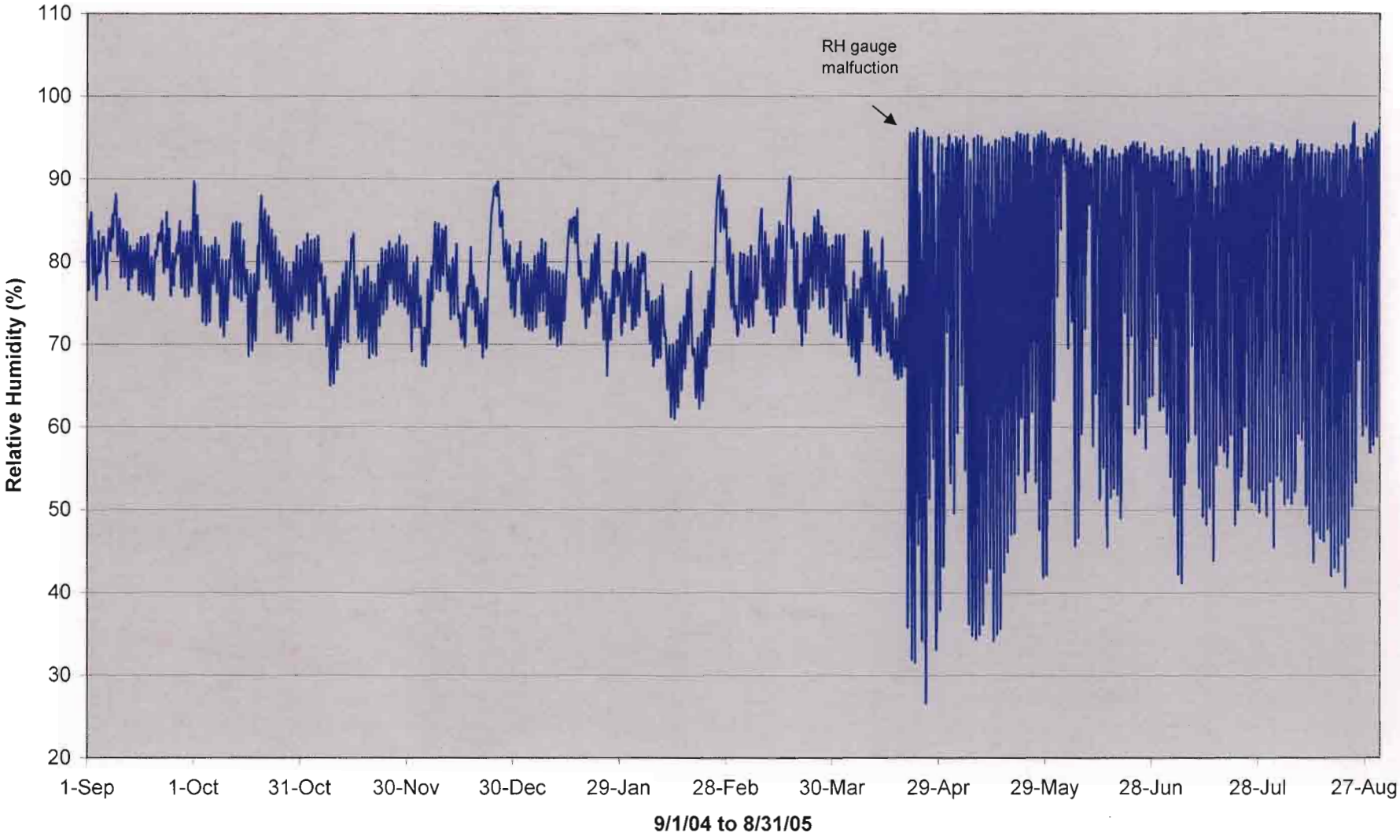


Graph 5.1B: Corkscrew Weather Station Temperature

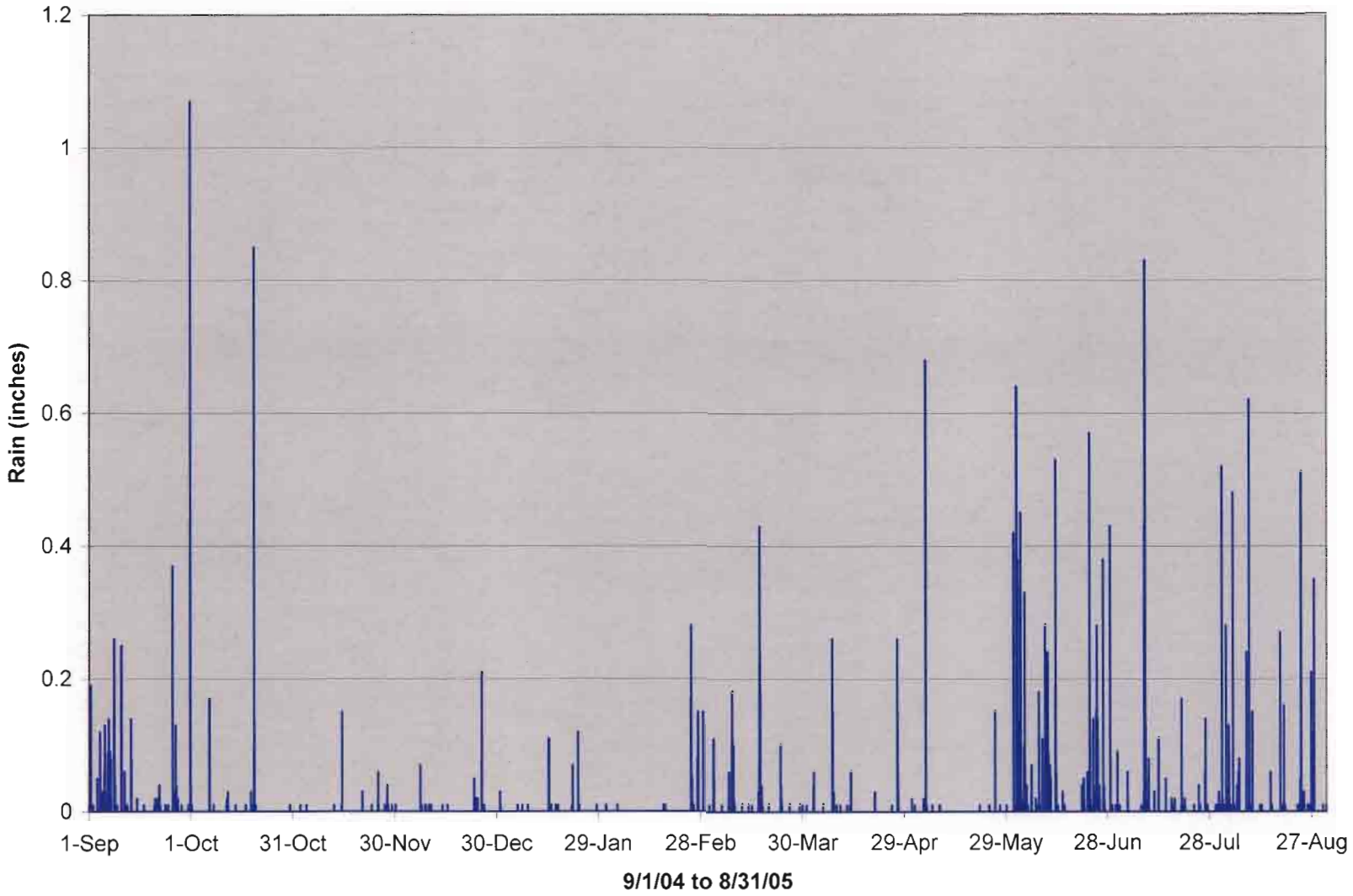


9/1/04 to 8/31/05

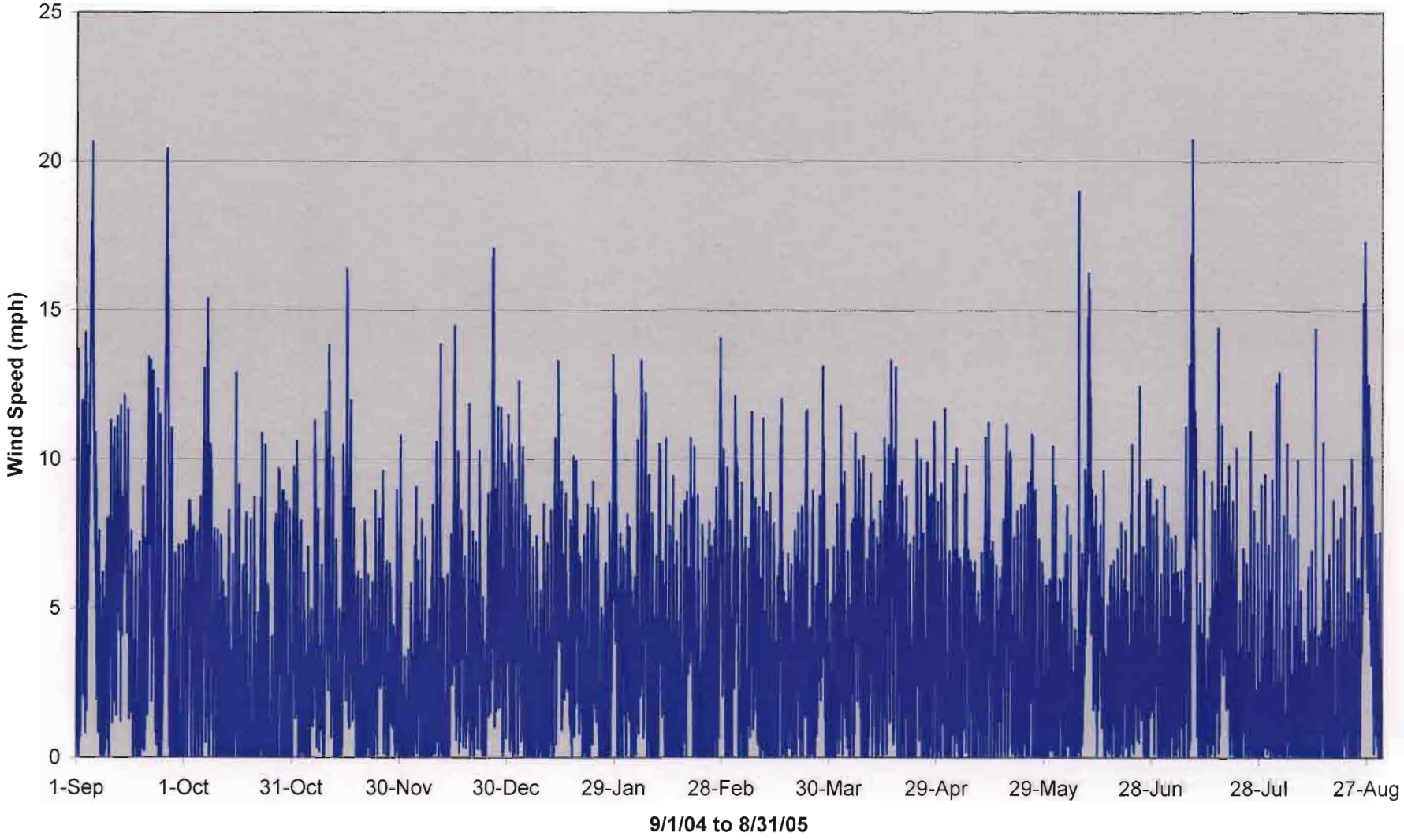
Graph 5.2B: Corkscrew Weather Station Relative Humidity



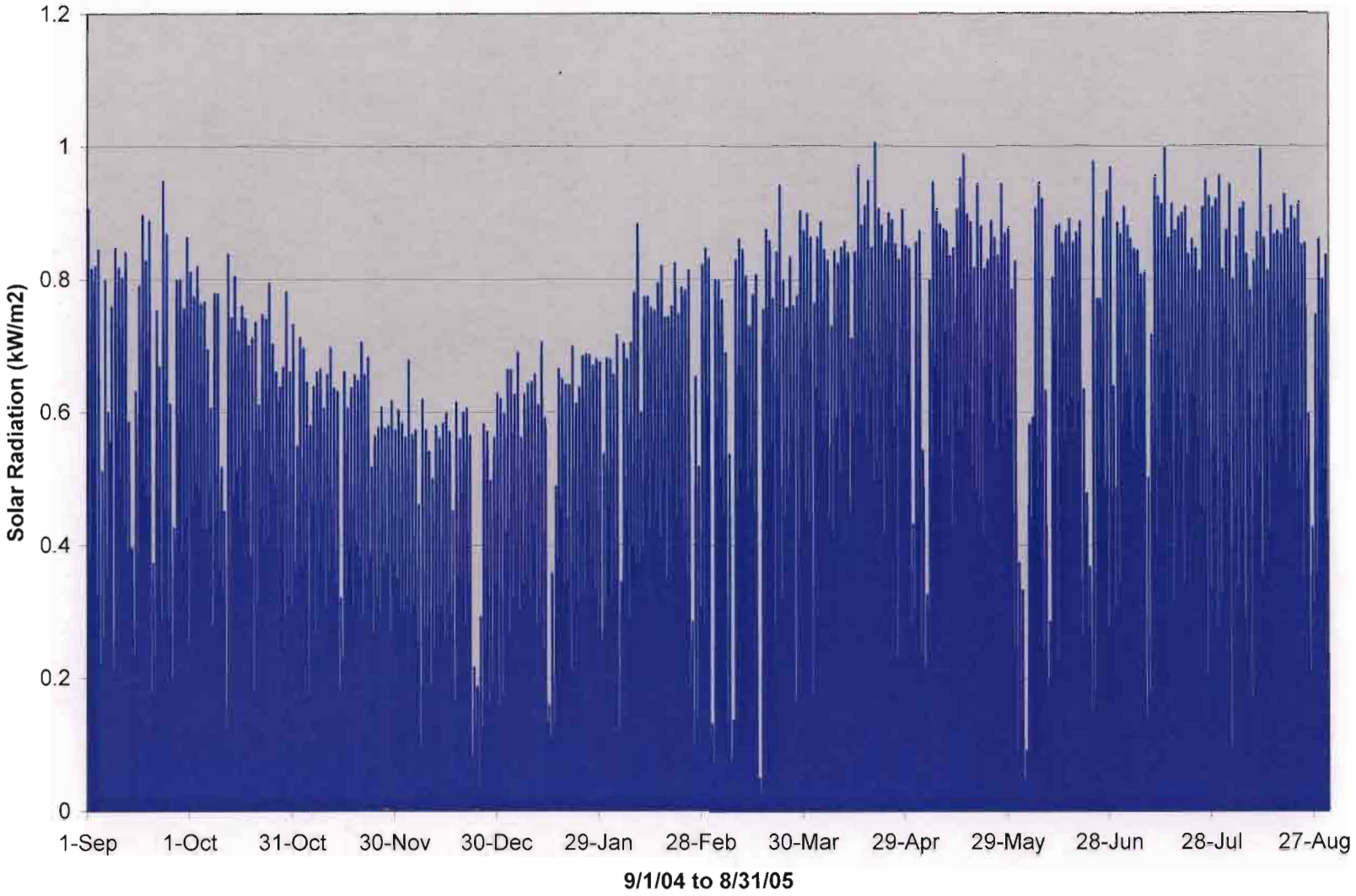
Graph 5.3B: Corkscrew Weather Station Rain



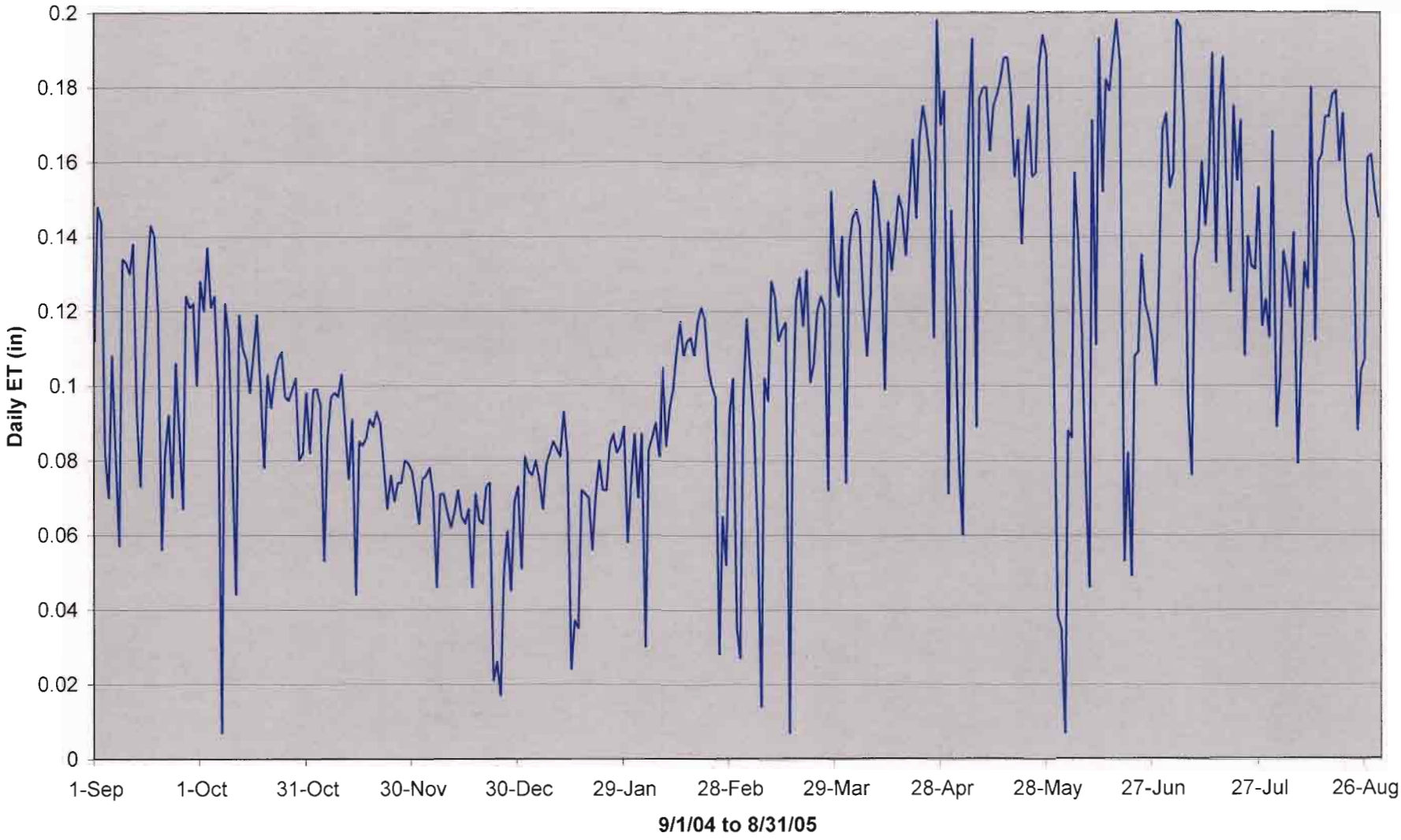
Graph 5.4B: Corkscrew Weather Station Wind Speed



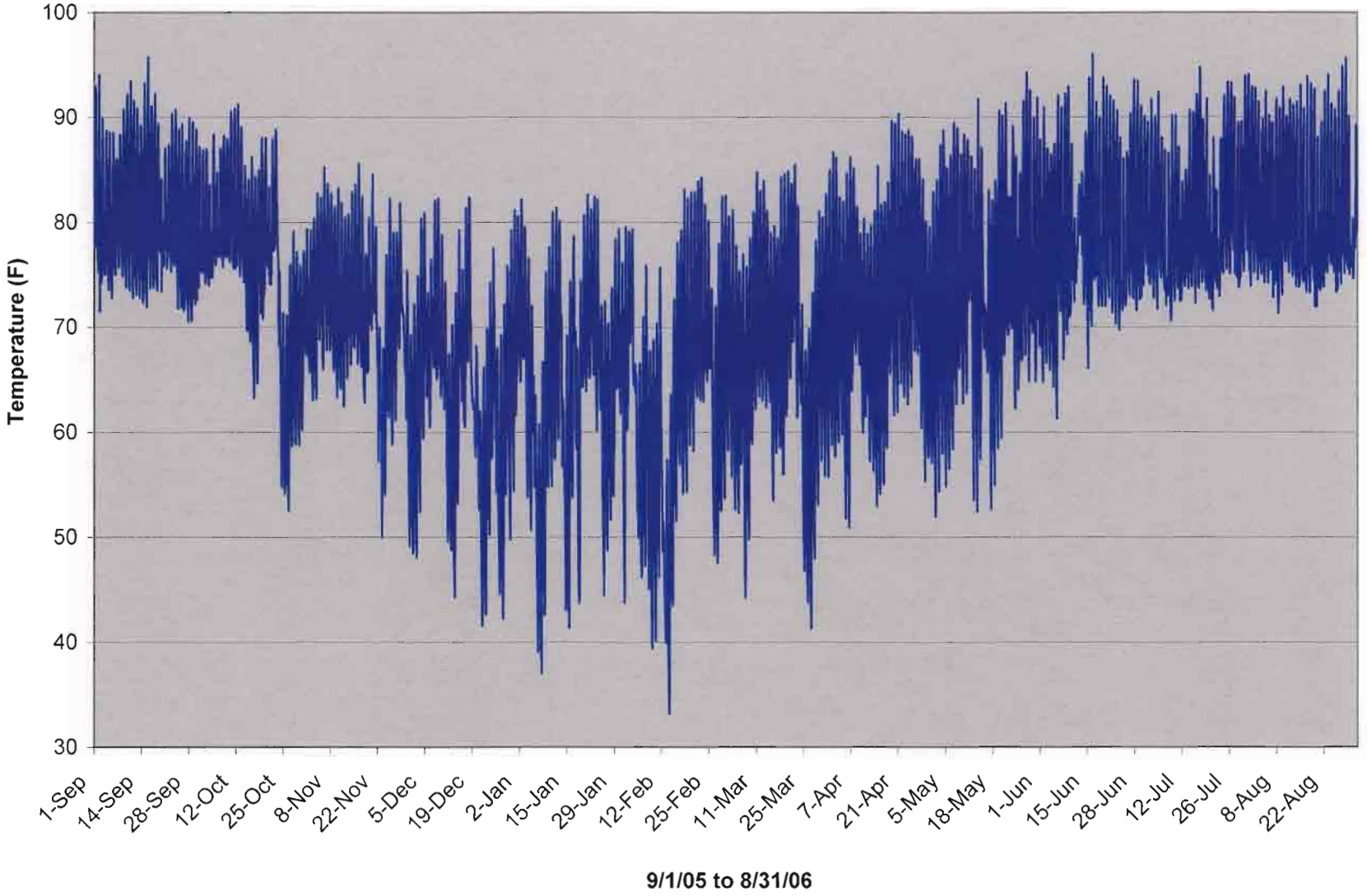
Graph 5.5B: Corkscrew Weather Station Solar Radiation



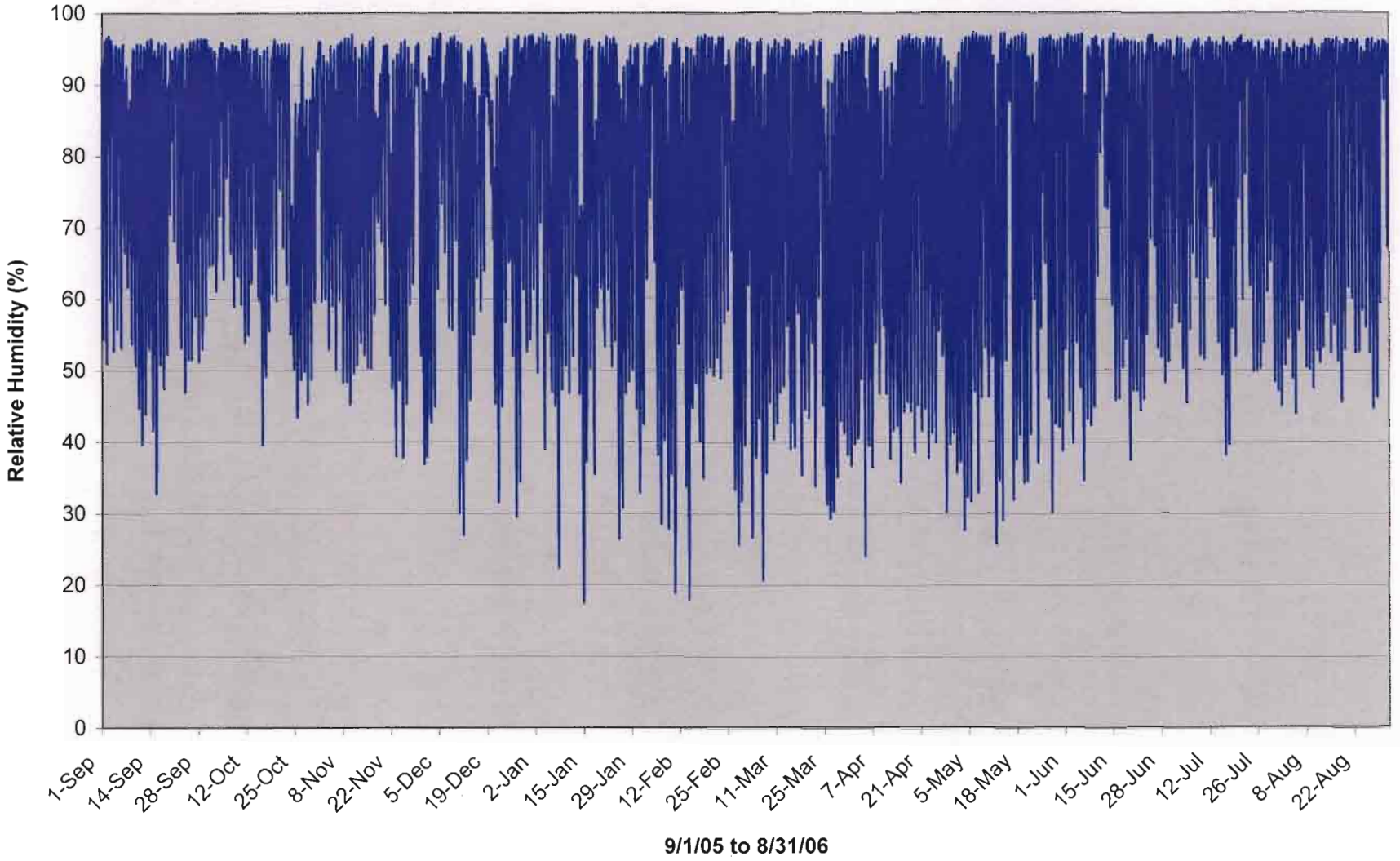
Graph 5.6B: Corkscrew Weather Station Evapotranspiration



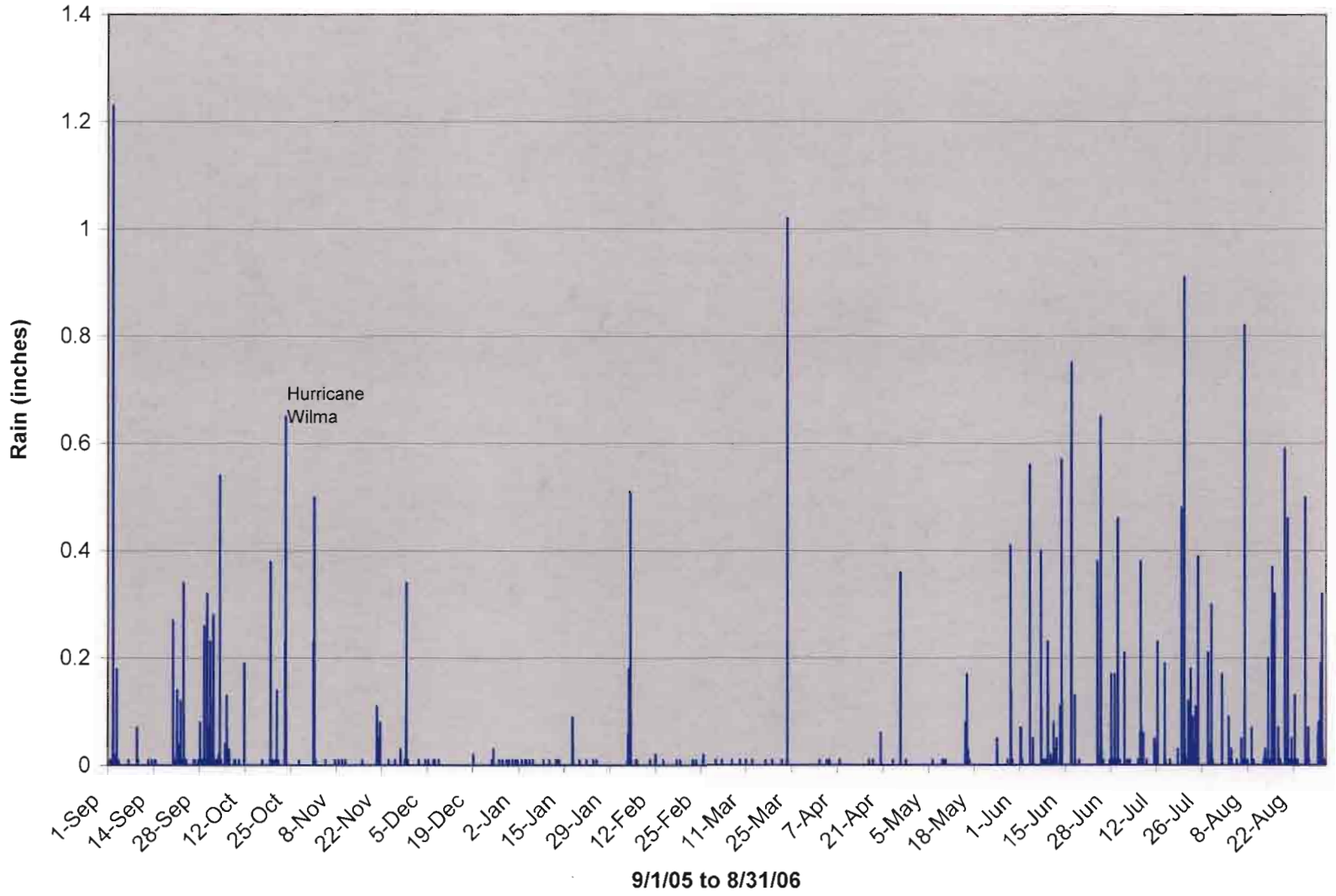
Graph 5.1C: Corkscrew Weather Station Temperature



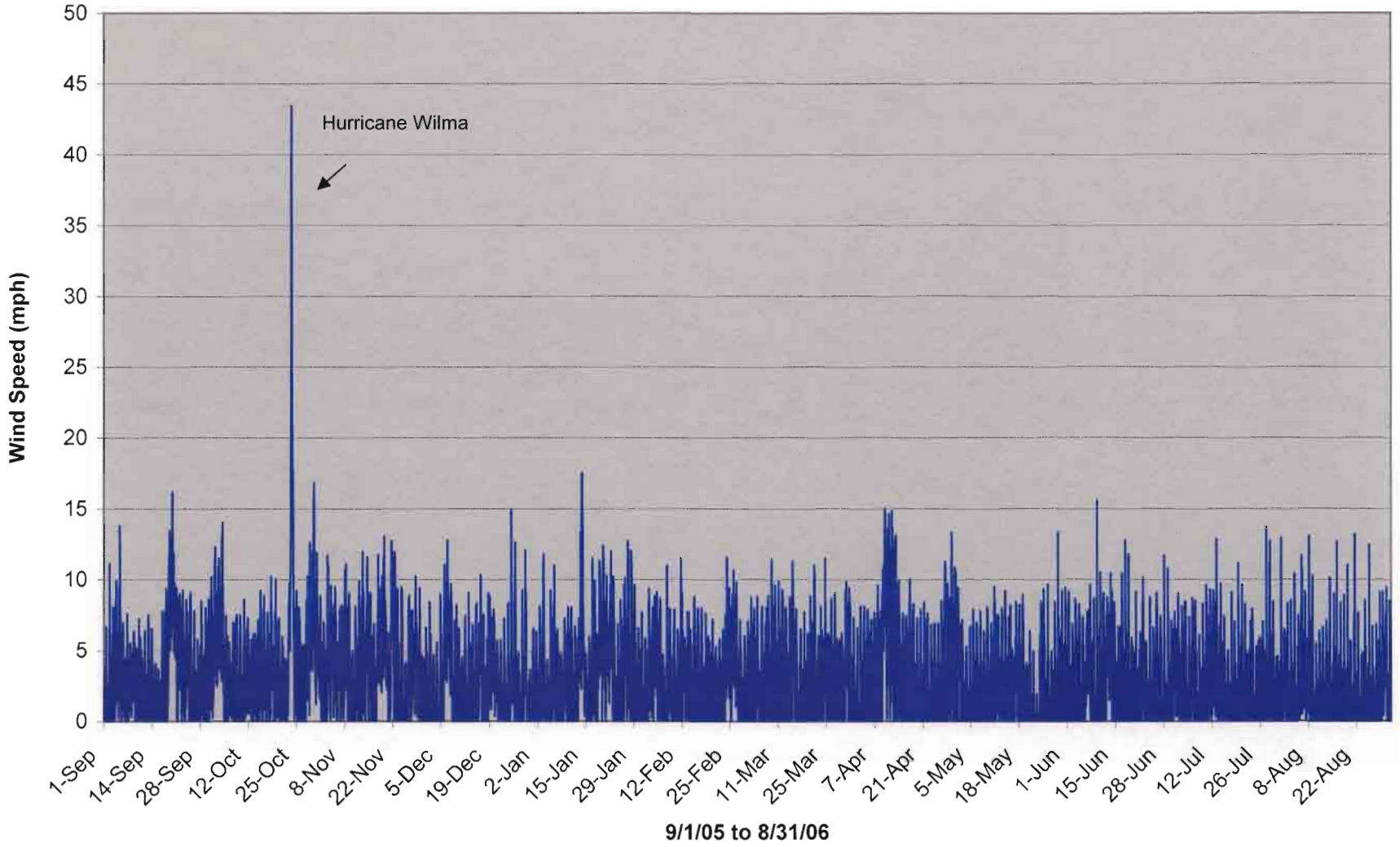
Graph 5.2C: Corkscrew Weather Station Relative Humidity



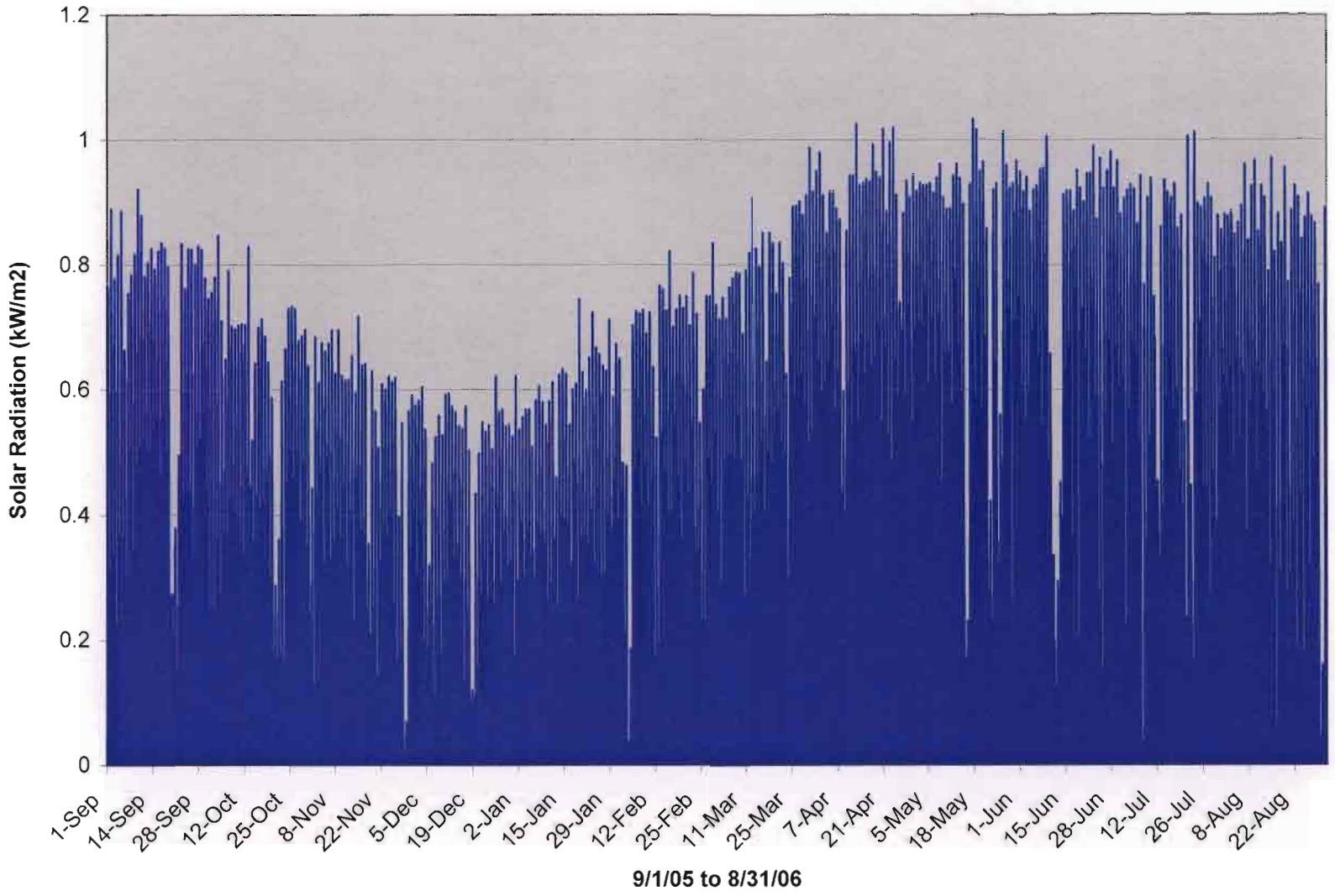
Graph 5.3C: Corkscrew Weather Station Rain



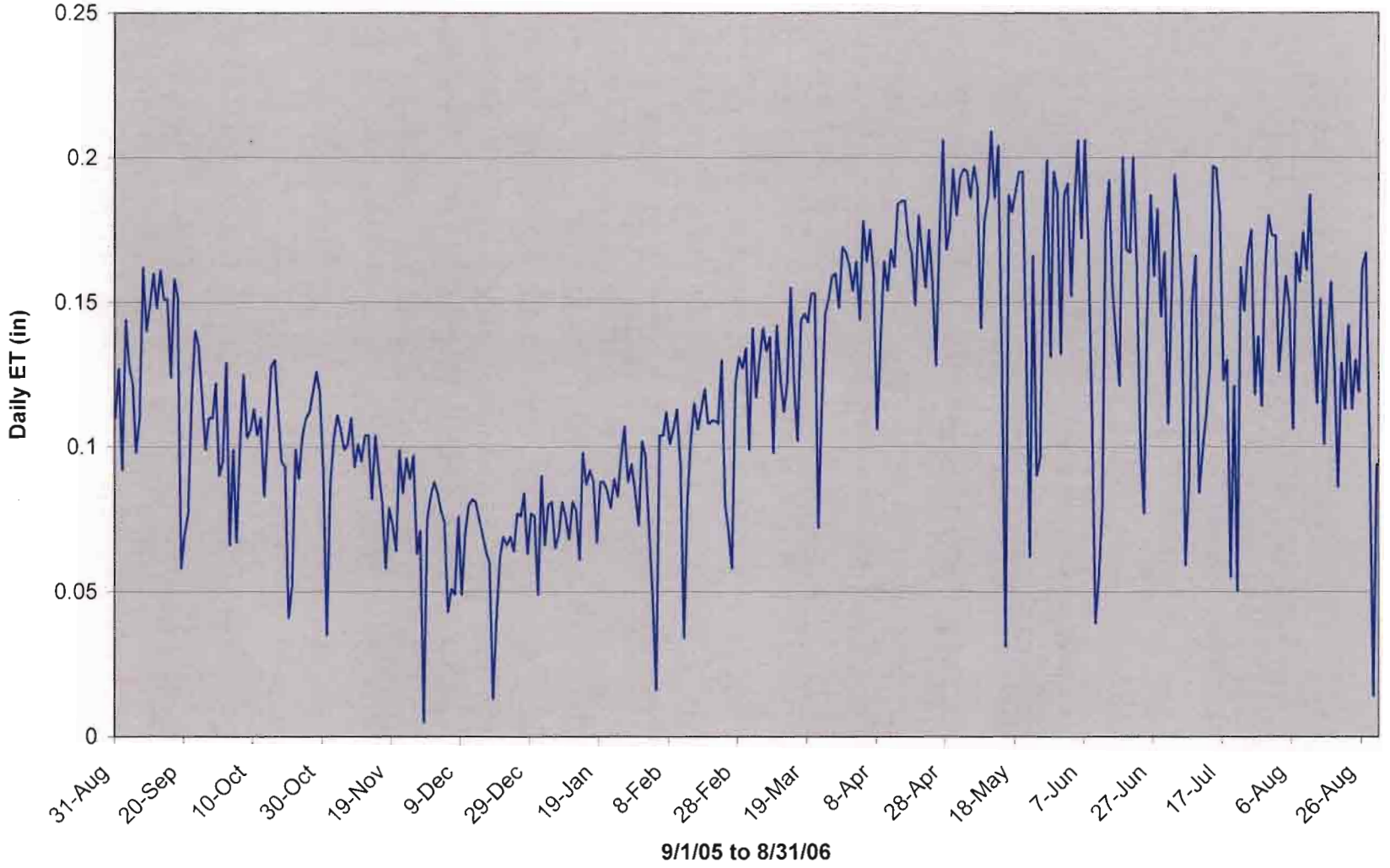
Graph 5.4C: Corkscrew Weather Station Wind Speed



Graph 5.5C: Corkscrew Weather Station Solar Radiation

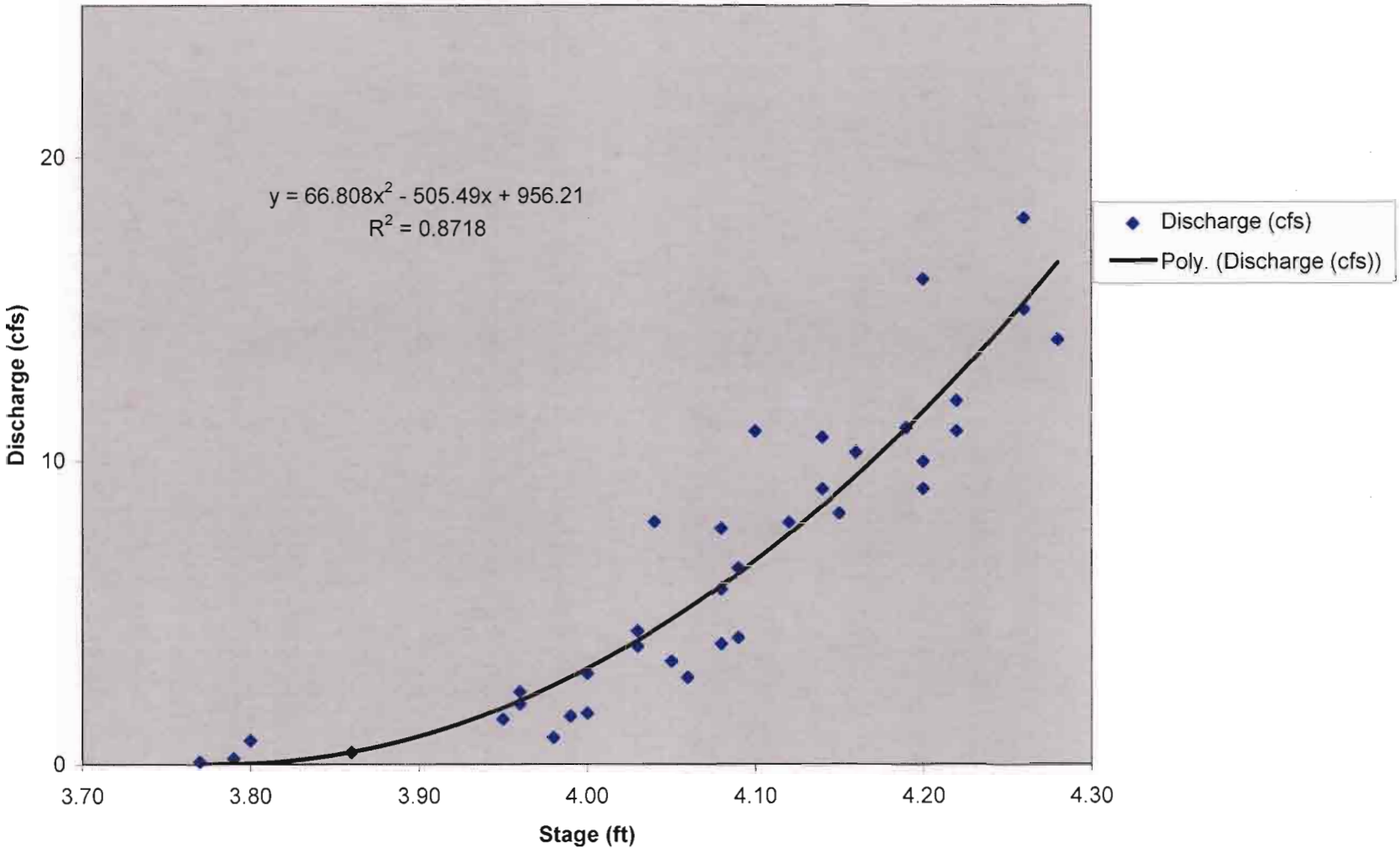


Graph 5.6C: Corkscrew Weather Station Evapotranspiration

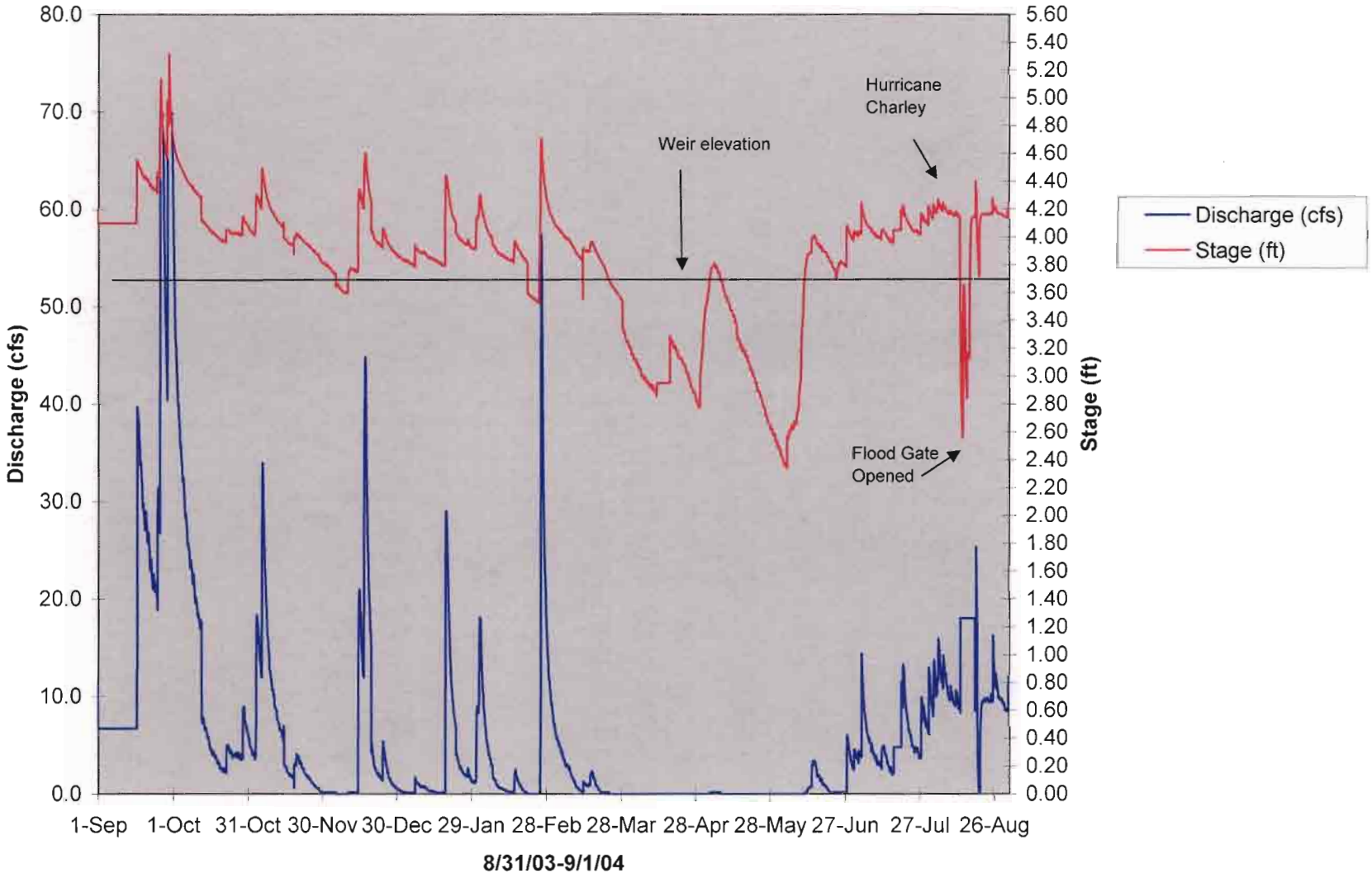


A.6 EASTWOOD GOLF COURSE GRAPHS

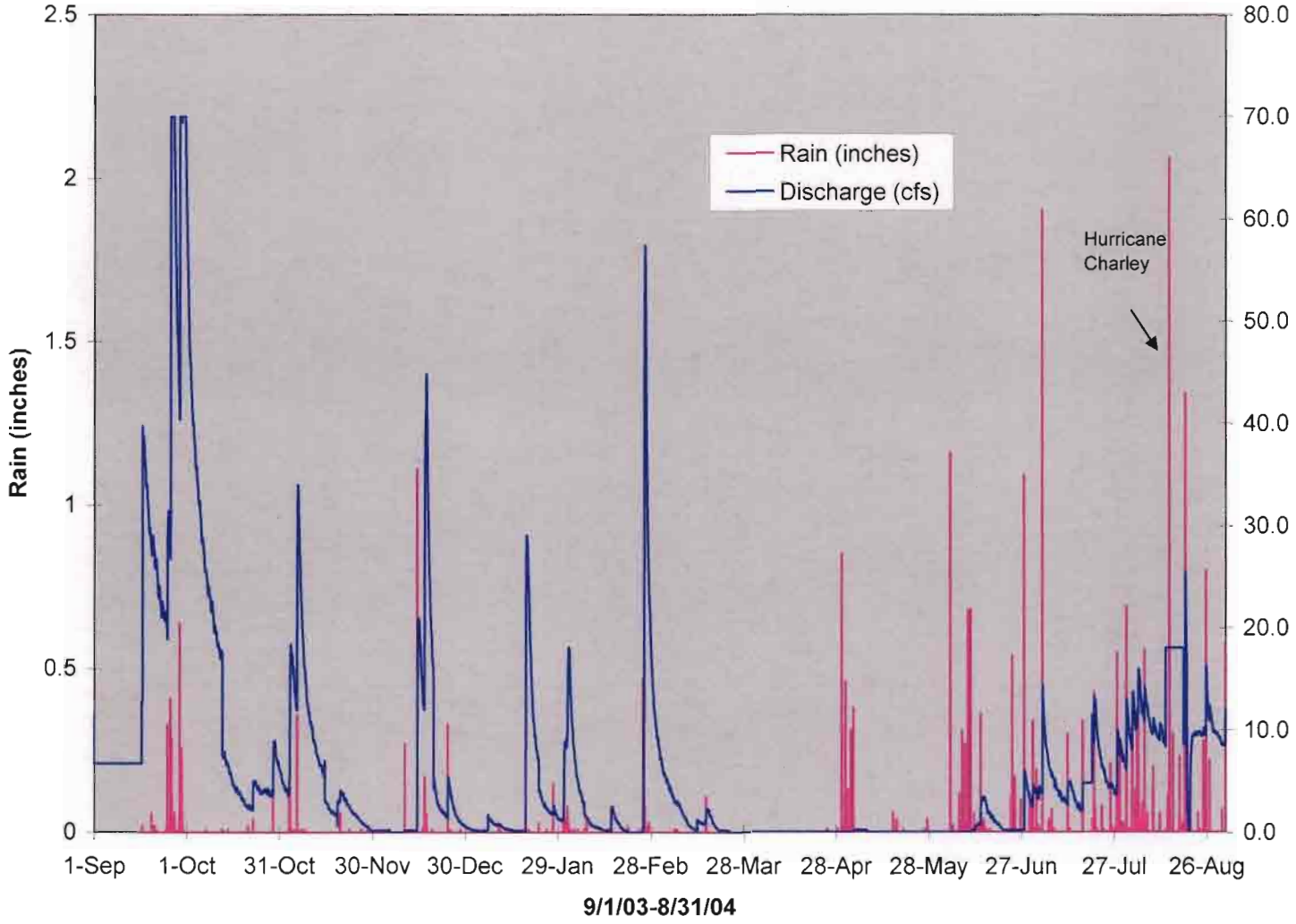
Graph 6.1A: Eastwood Golf Course Monitoring Station Discharge vs Stage Calibration Curve 9/1/03-8/31/06 for Stage <= 4.42 ft.



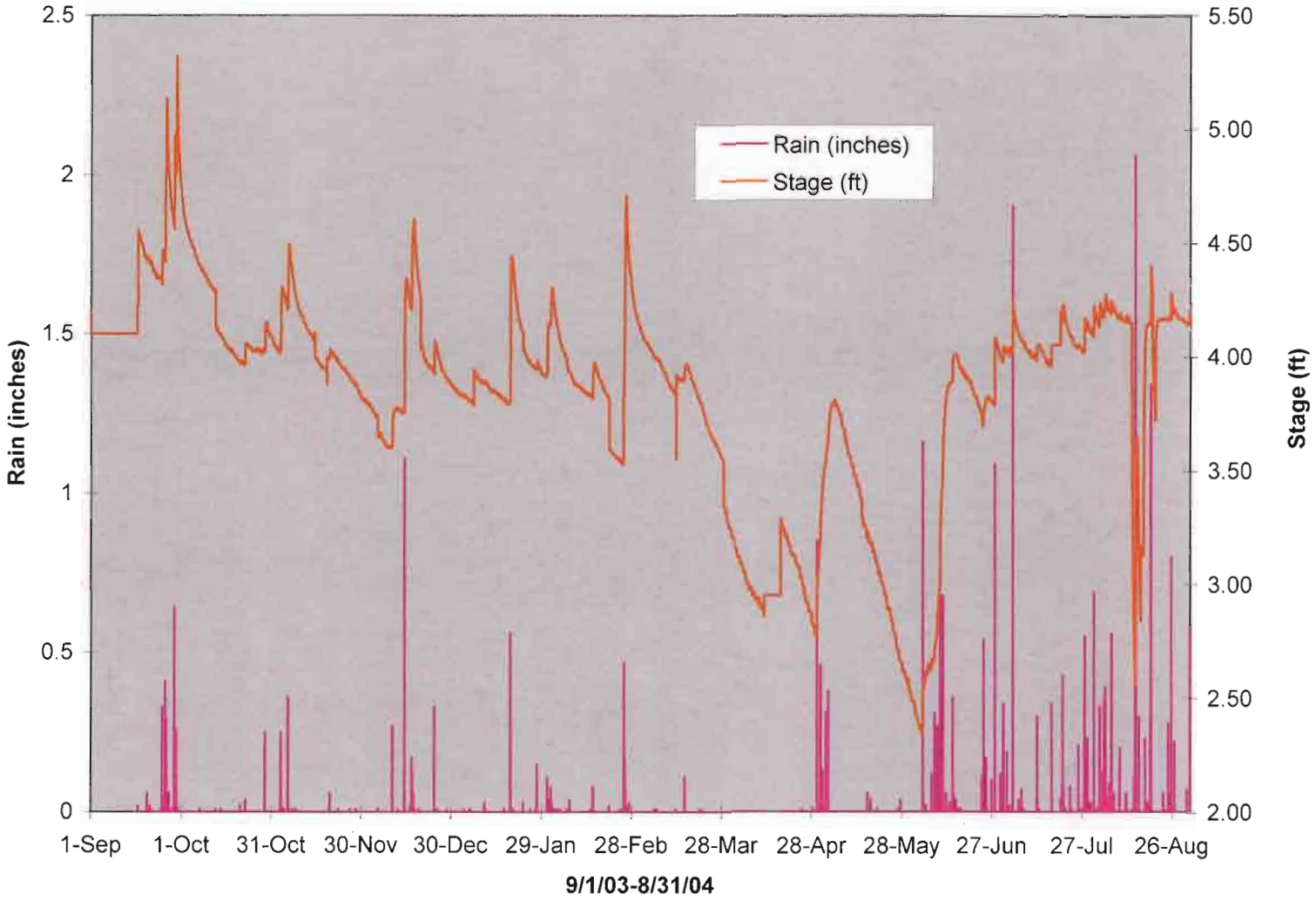
Graph 6.2A: Eastwood Golf Course Monitoring Station Stage\Discharge vs Time



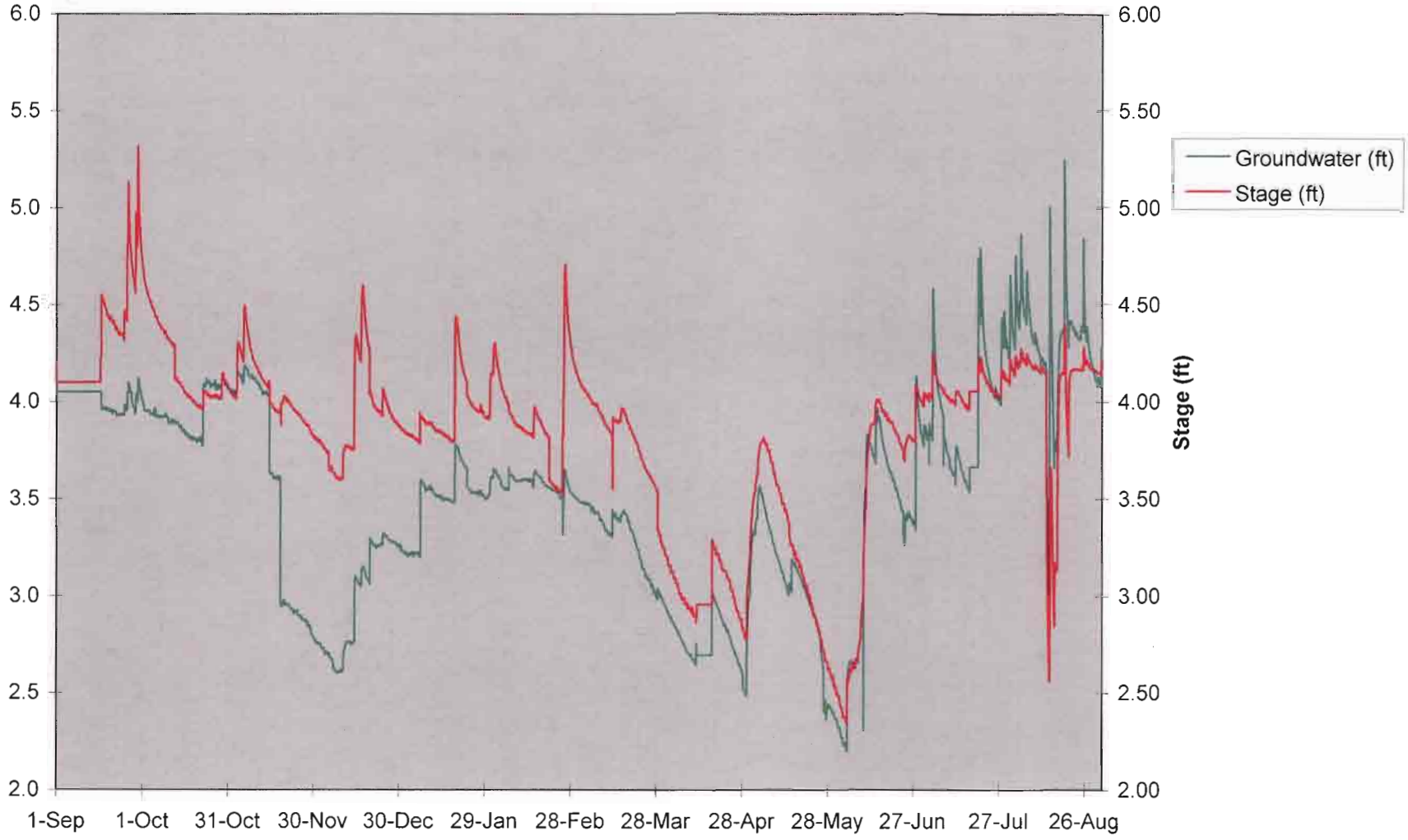
Graph 6.3A: Eastwood Golf Course Monitoring Station Rain\Discharge vs Time



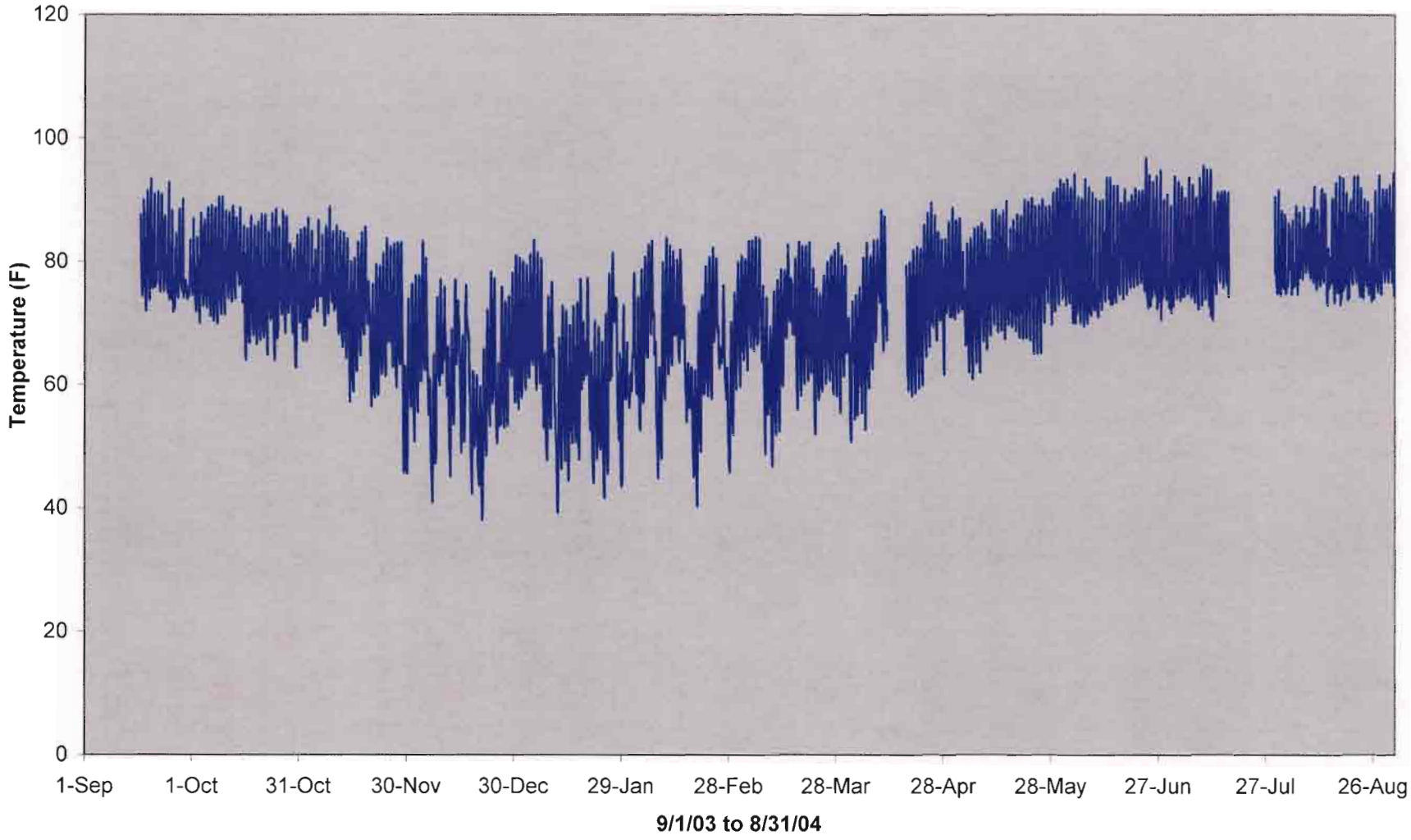
Graph 6.4A: Eastwood Golf Course Monitoring Station Rain\Stage vs Time



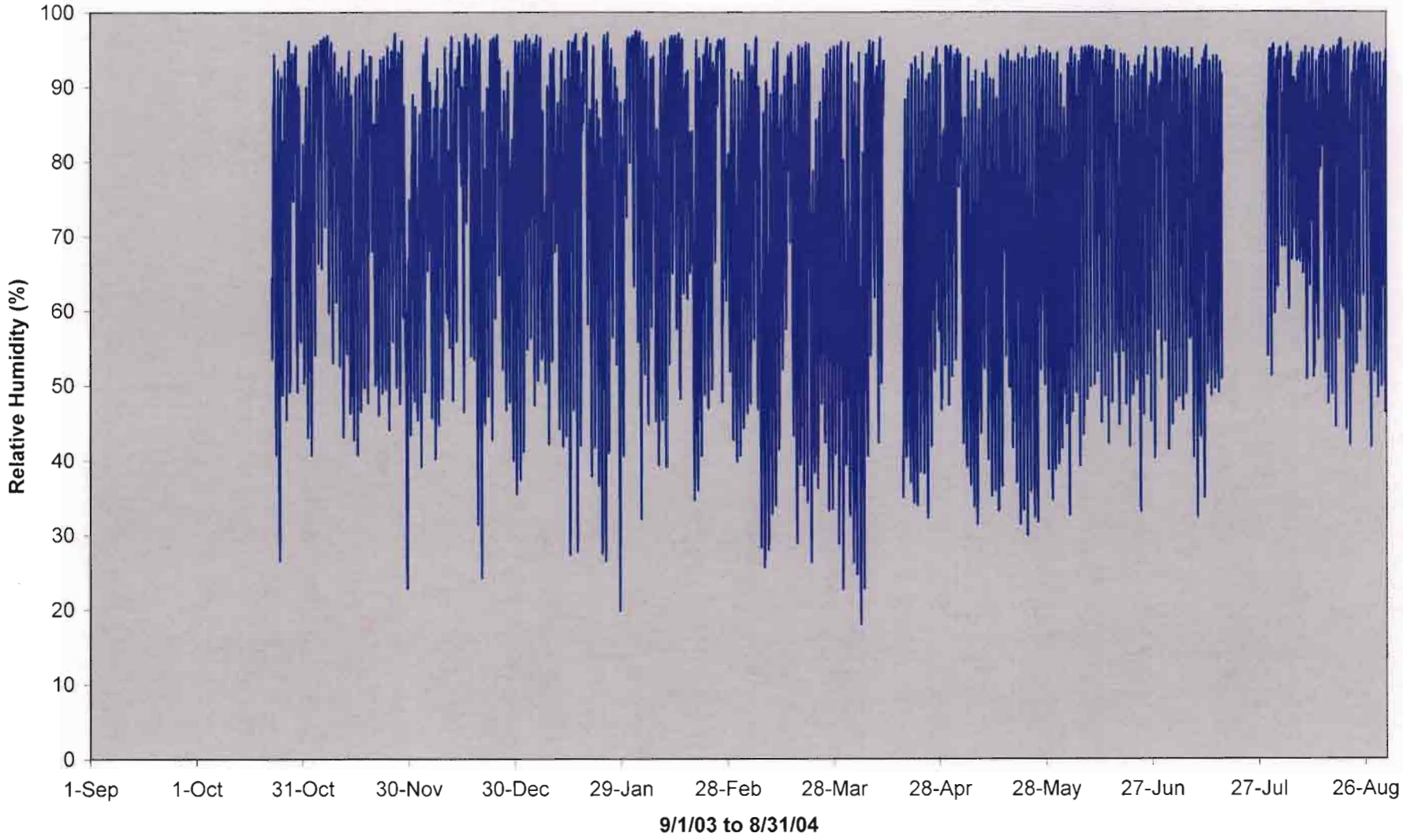
Graph 6.5A: Eastwood Golf Course Monitoring Station Stage vs.Groundwater Elevation



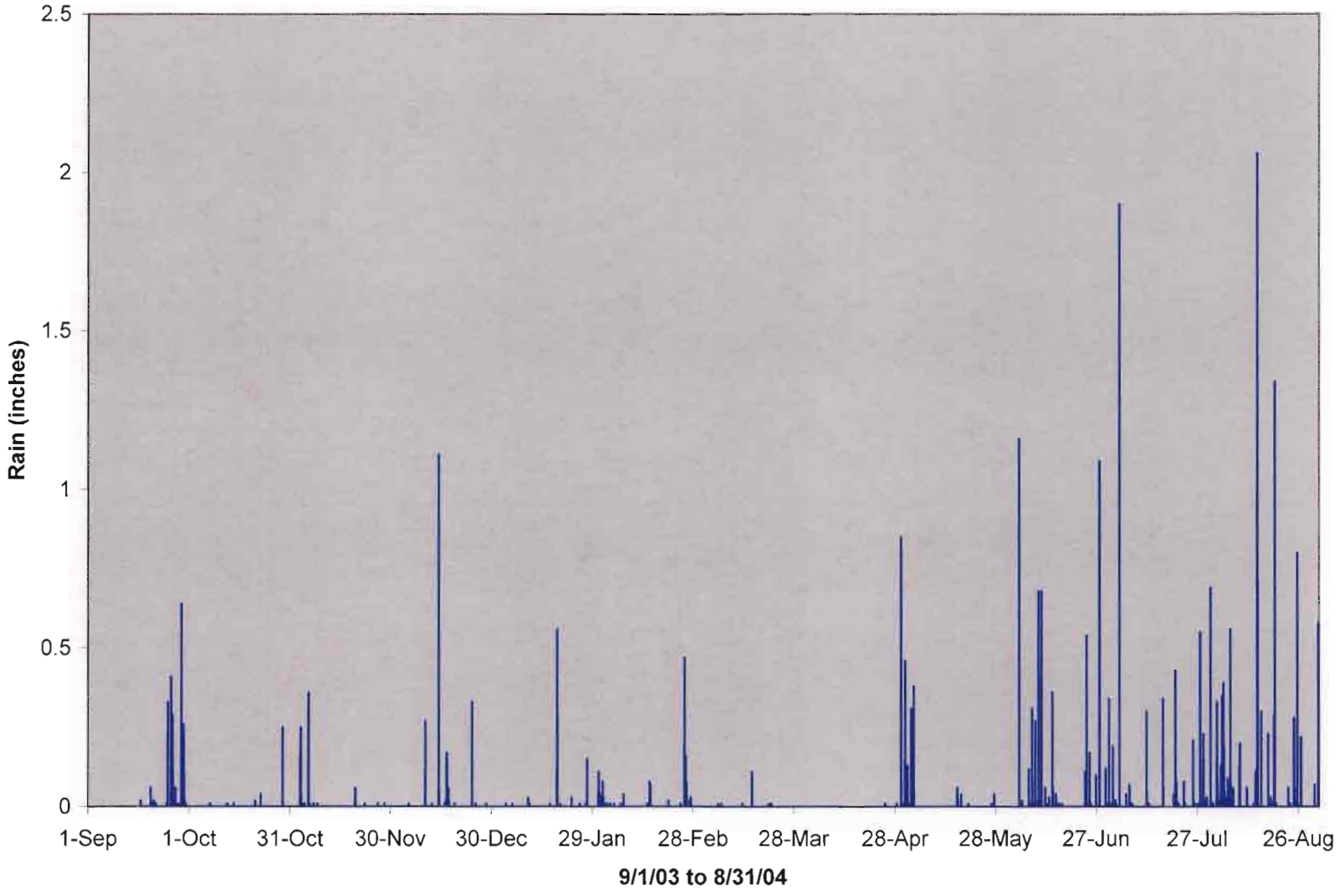
Graph 6.6A: Eastwood Golf Course Weather Station Temperature



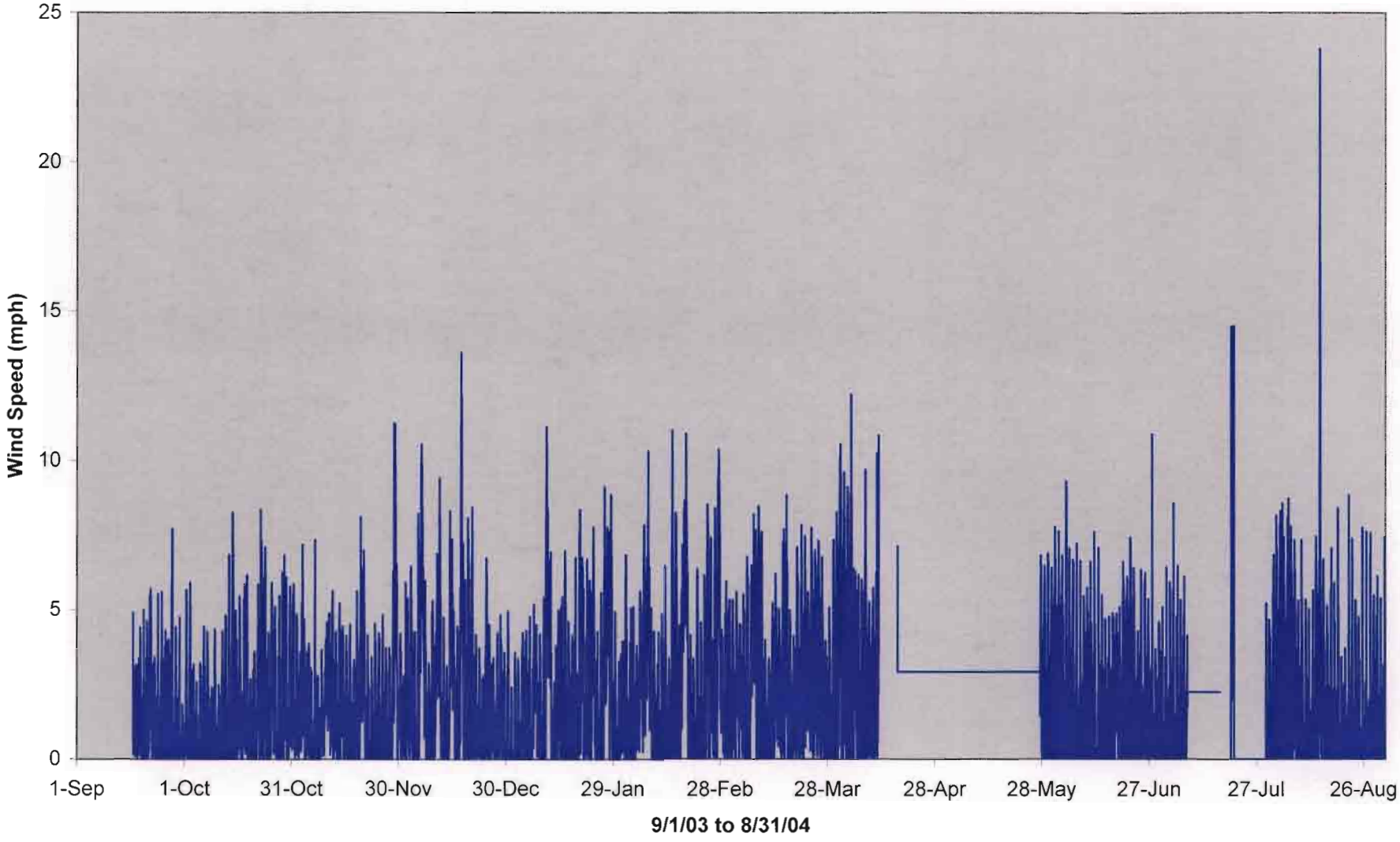
Graph 6.7A: Eastwood Golf Course Weather Station Relative Humidity



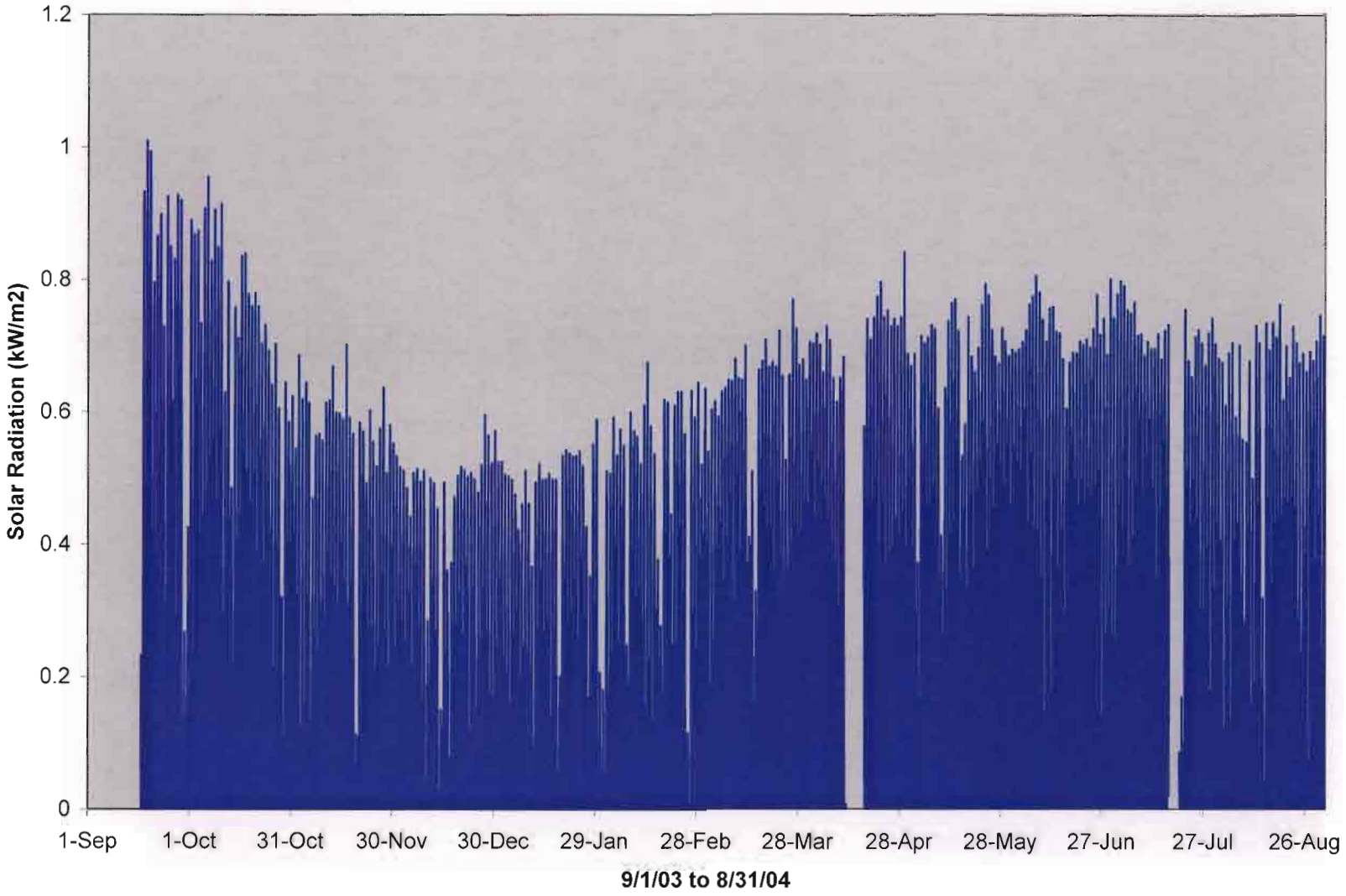
Graph 6.8A: Eastwood Golf Course Weather Station Rain



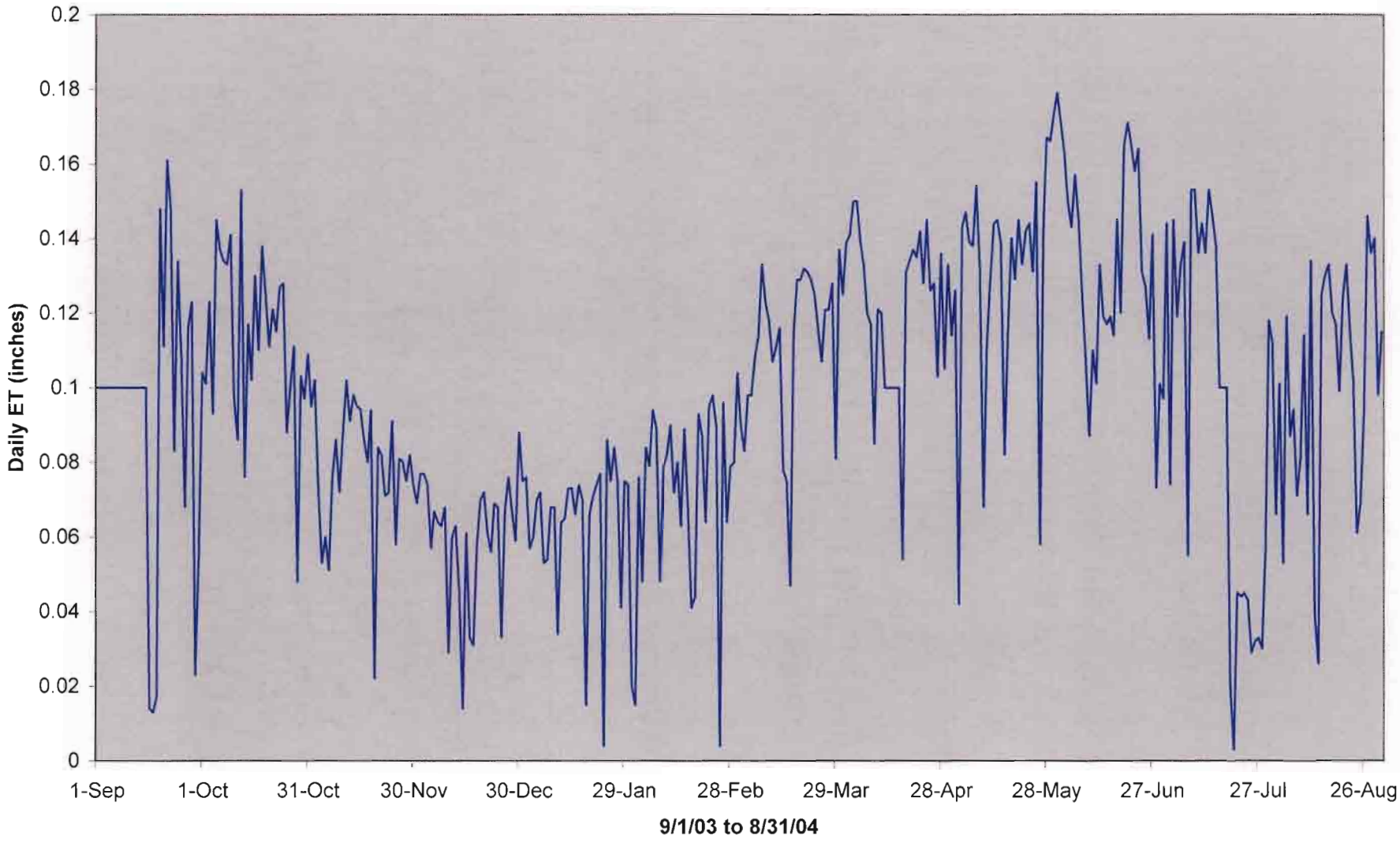
Graph 6.9A: Eastwood Golf Course Weather Station Wind Speed



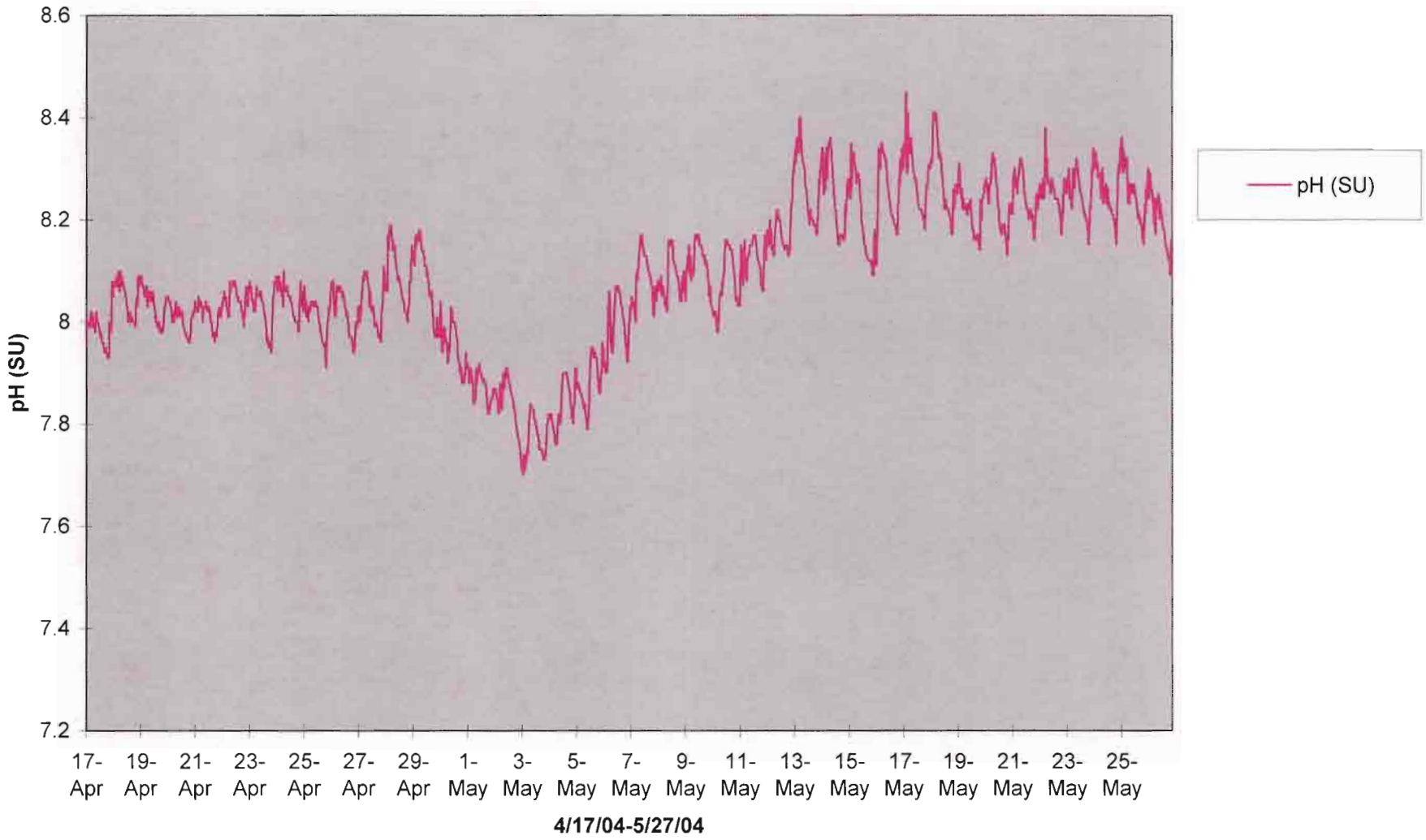
Graph 6.10A: Eastwood Golf Course Weather Station Solar Radiation



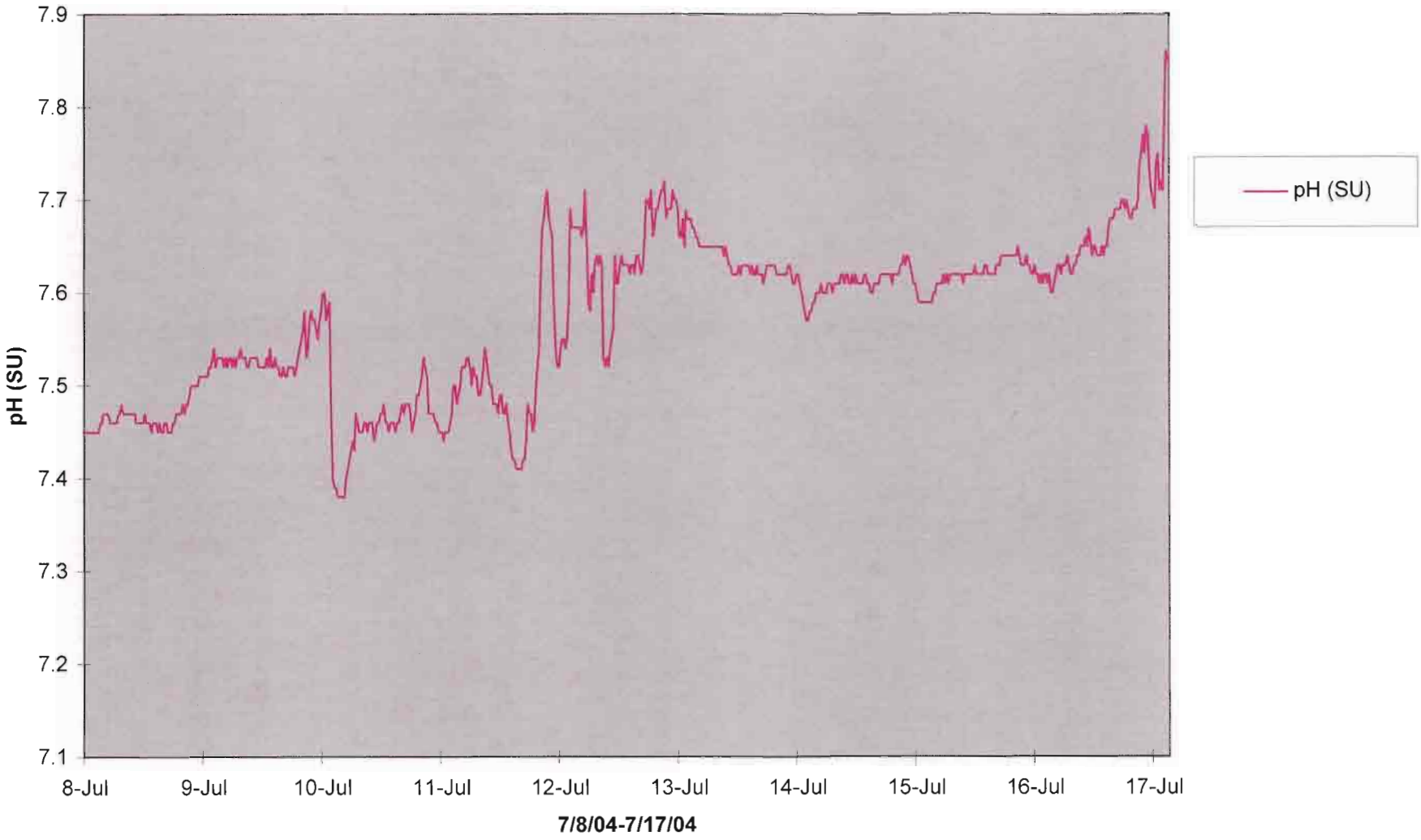
Graph 6.11A: Eastwood Golf Course Weather Station Evapotranspiration



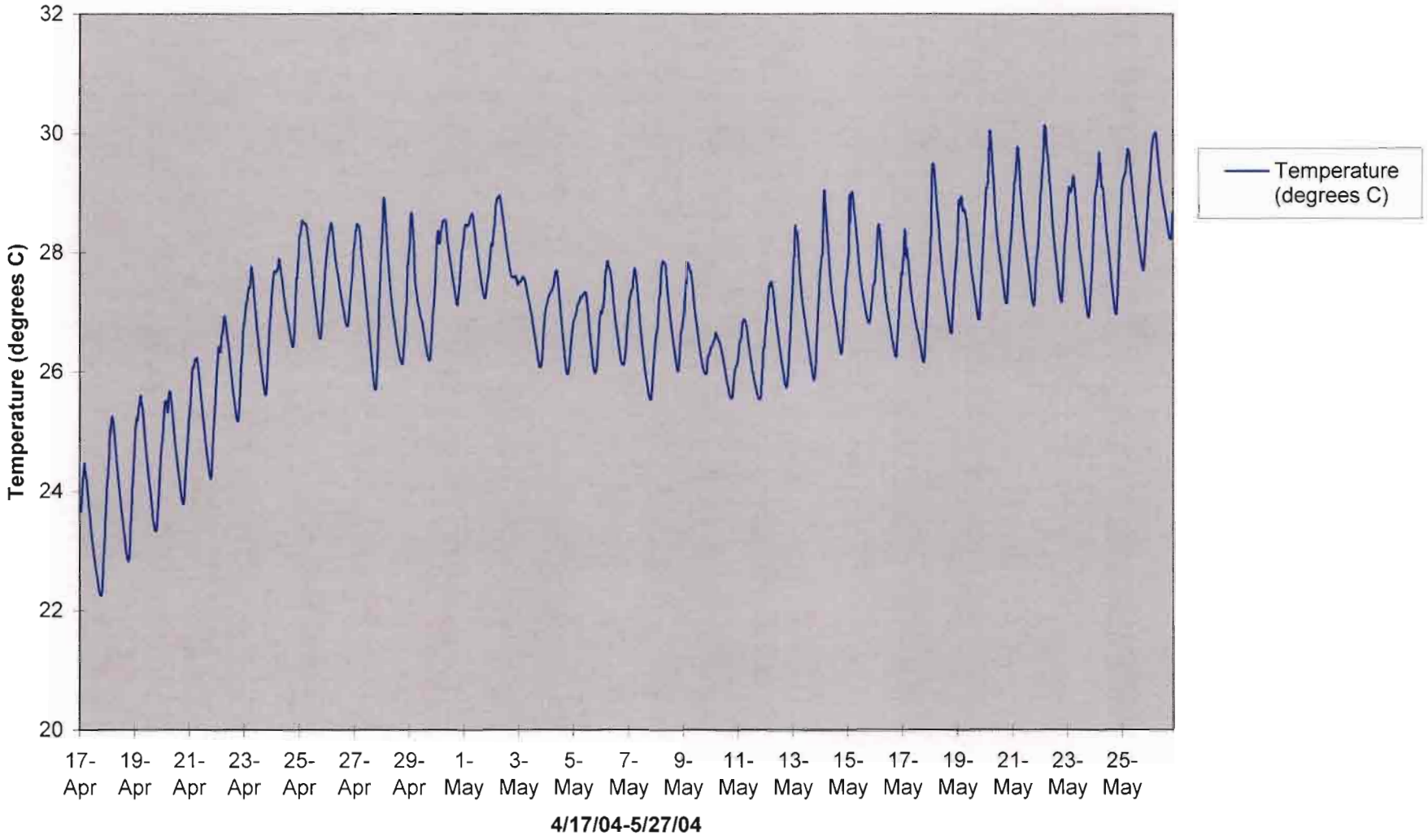
Graph 6.12A: Eastwood Golf Course Monitoring Station pH vs Time



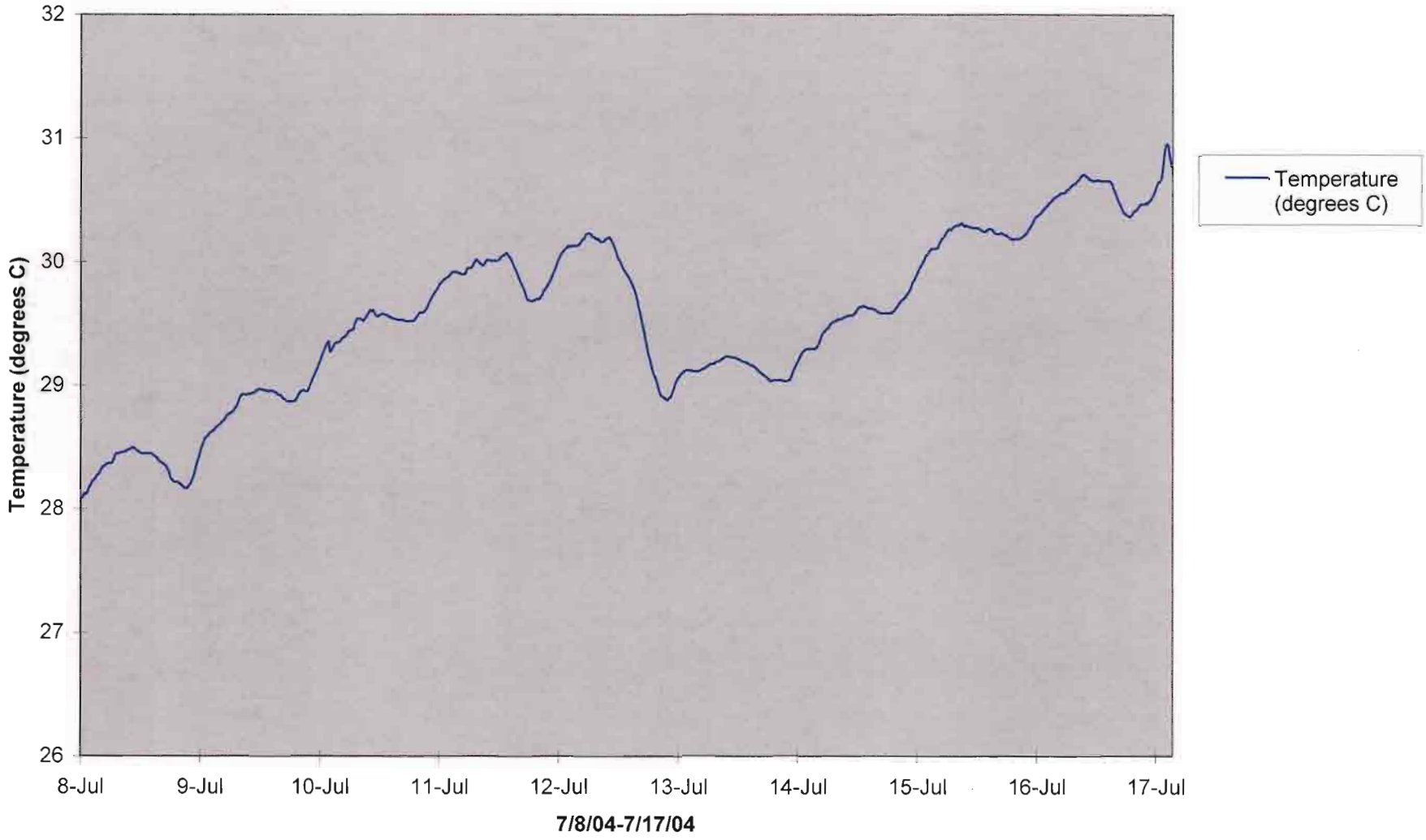
Graph 6.13A: Eastwood Golf Course Monitoring Station pH vs Time



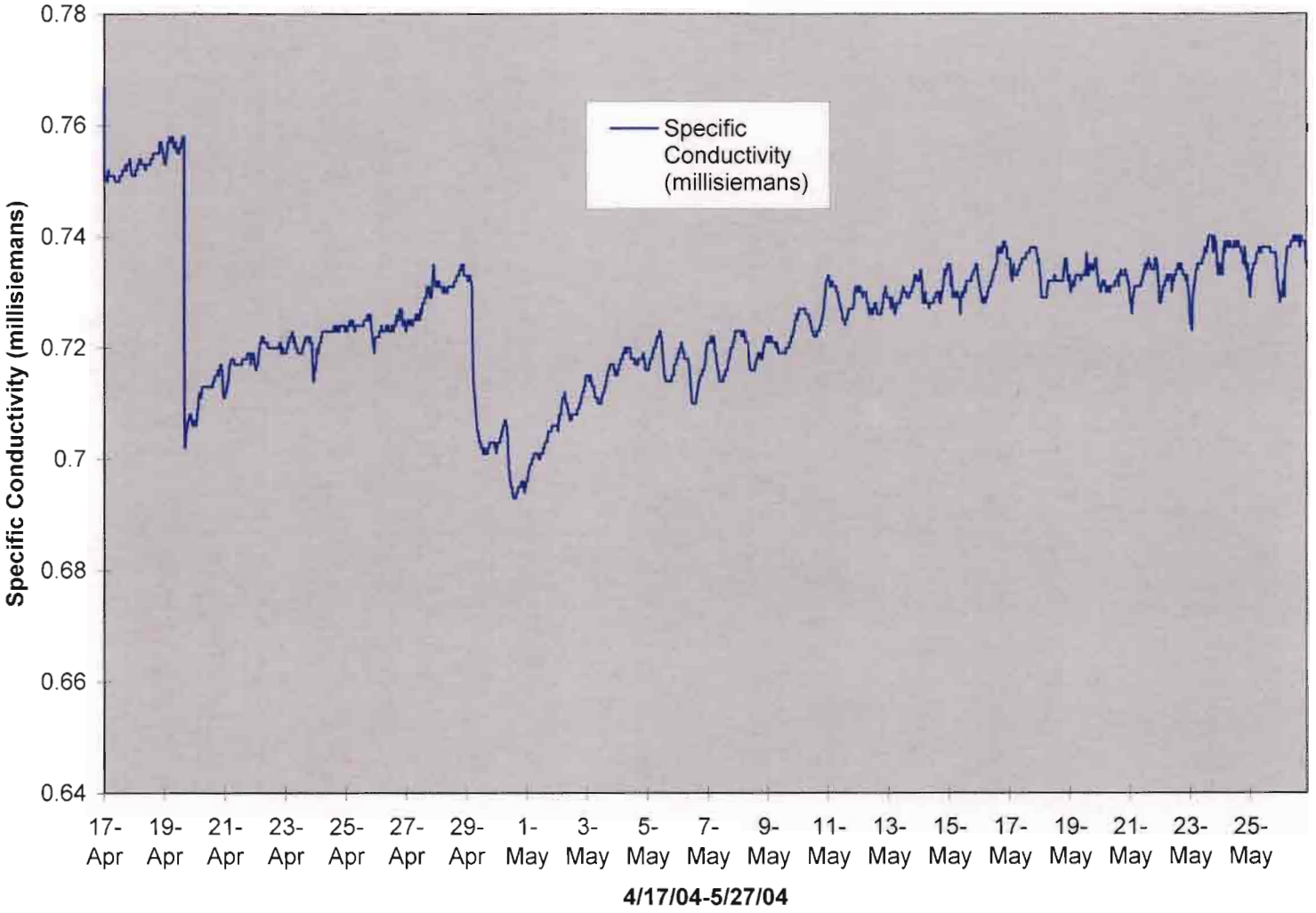
Graph 6.14A: Eastwood Golf Course Monitoring Station Water Temperature vs Time



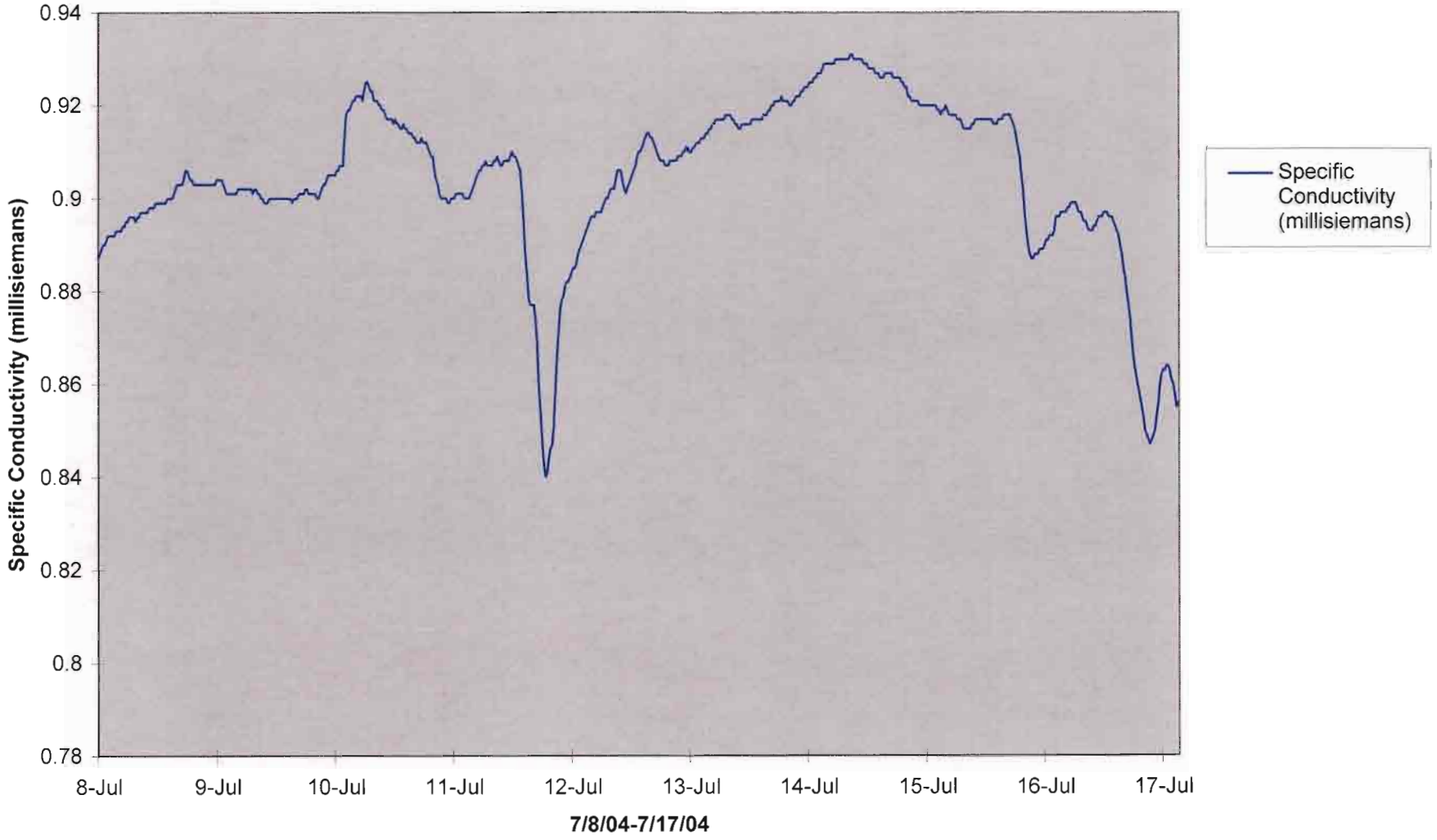
Graph 6.15A: Eastwood Golf Course Monitoring Station Water Temperature vs Time



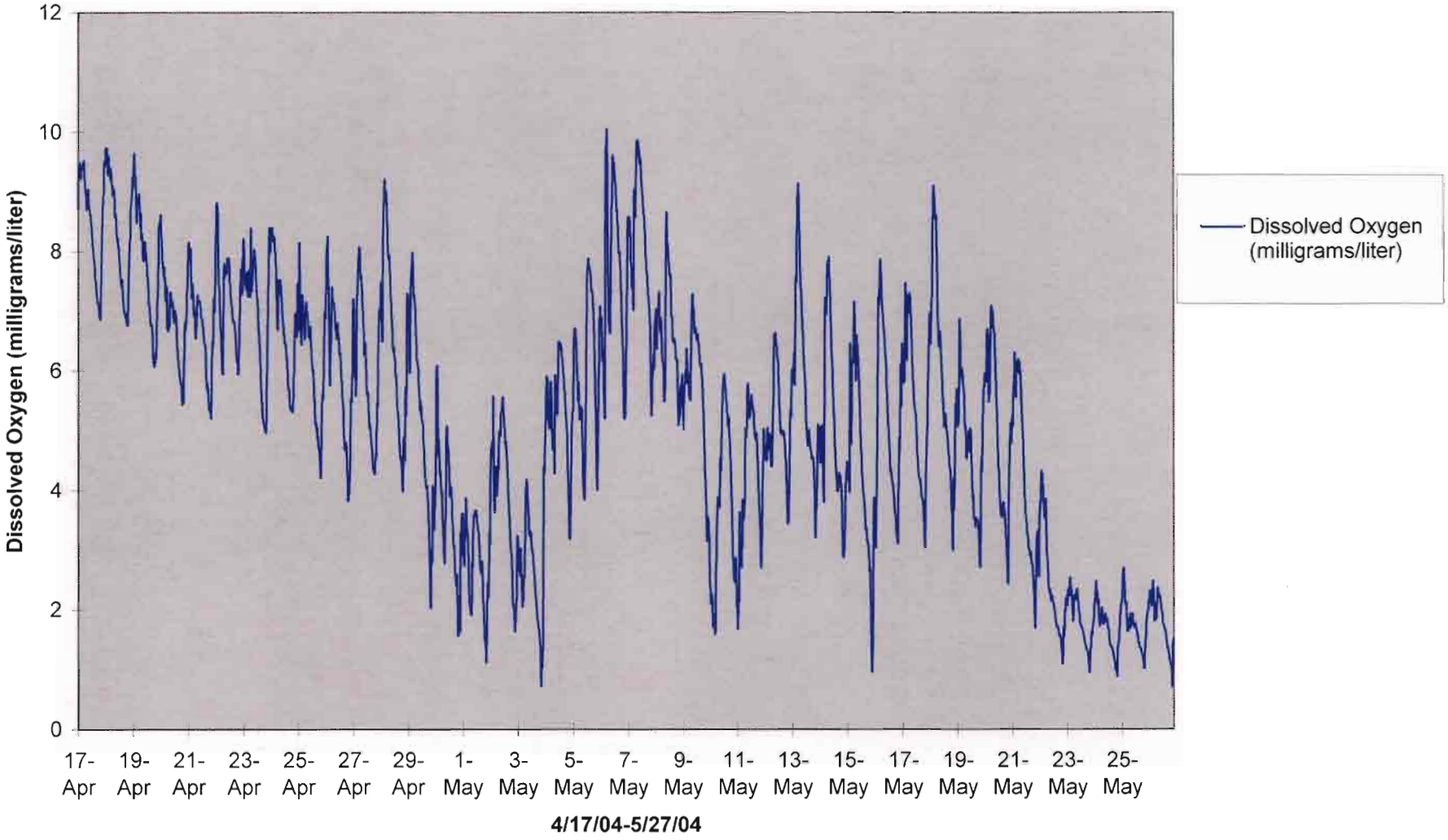
Graph 6.16A: Eastwood Golf Course Monitoring Station Specific Conductivity vs Time



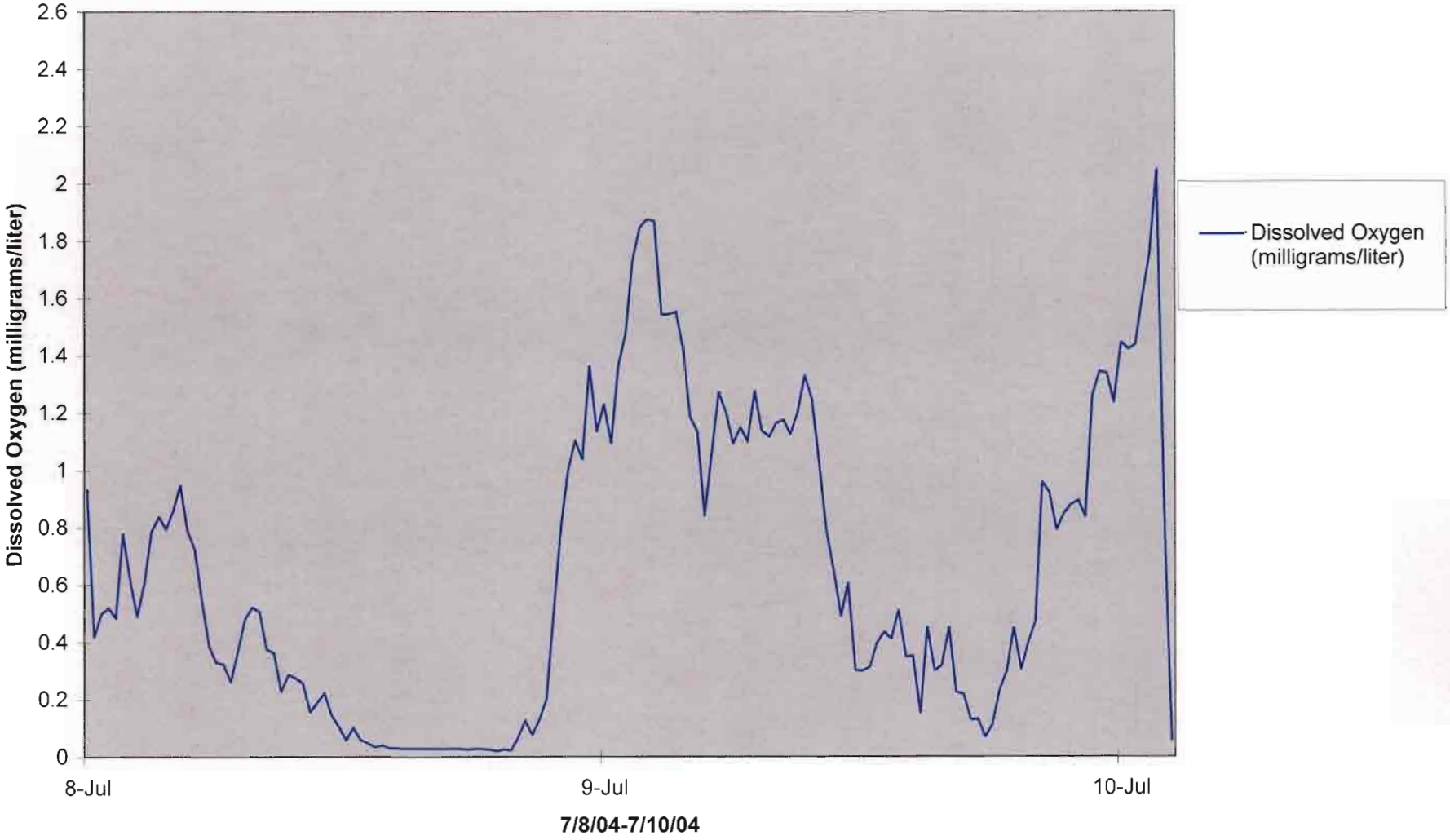
Graph 6.17A: Eastwood Golf Course Monitoring Station Specific Conductivity vs Time



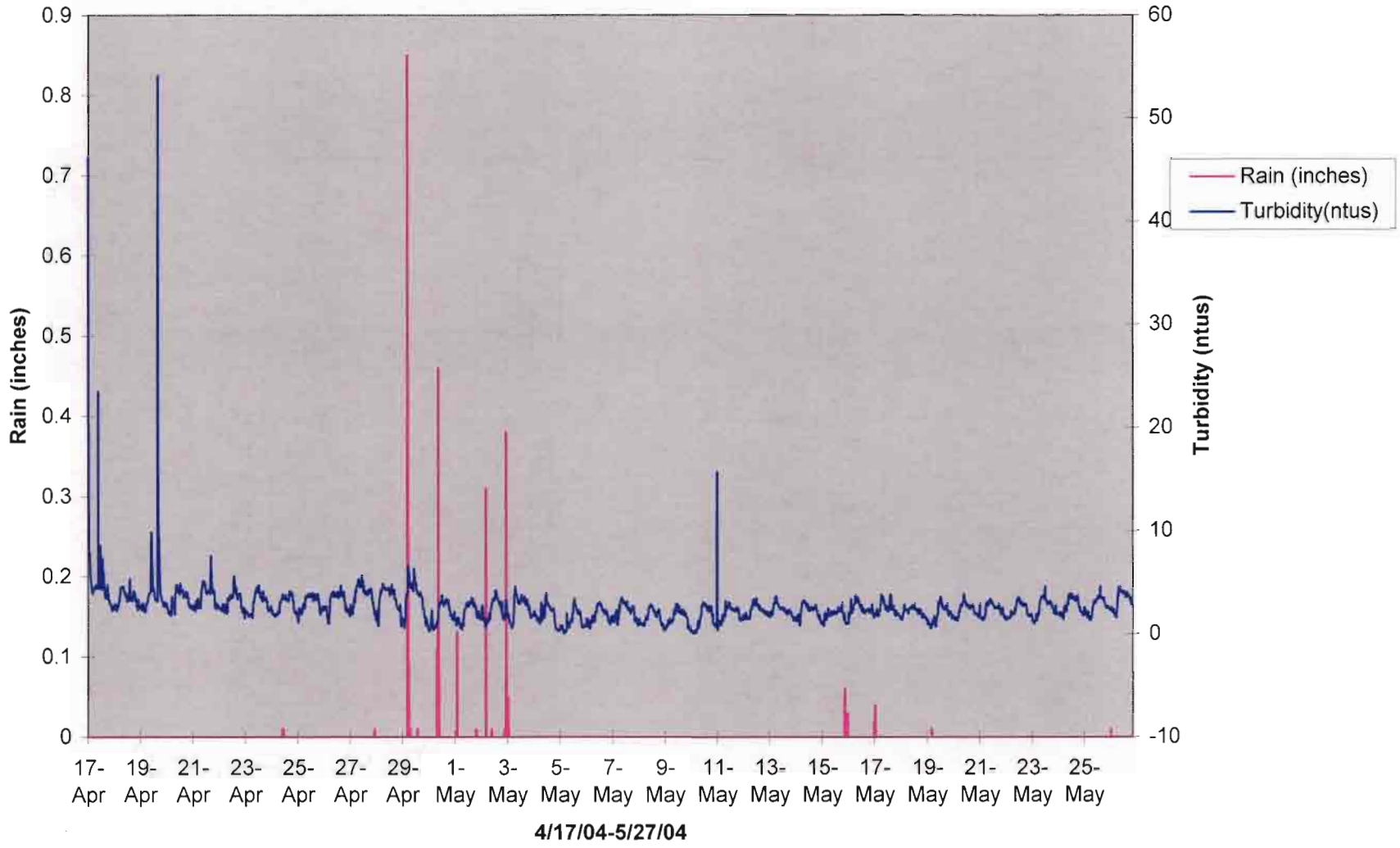
Graph 6.18A: Eastwood Golf Course Monitoring Station Dissolved Oxygen vs Time



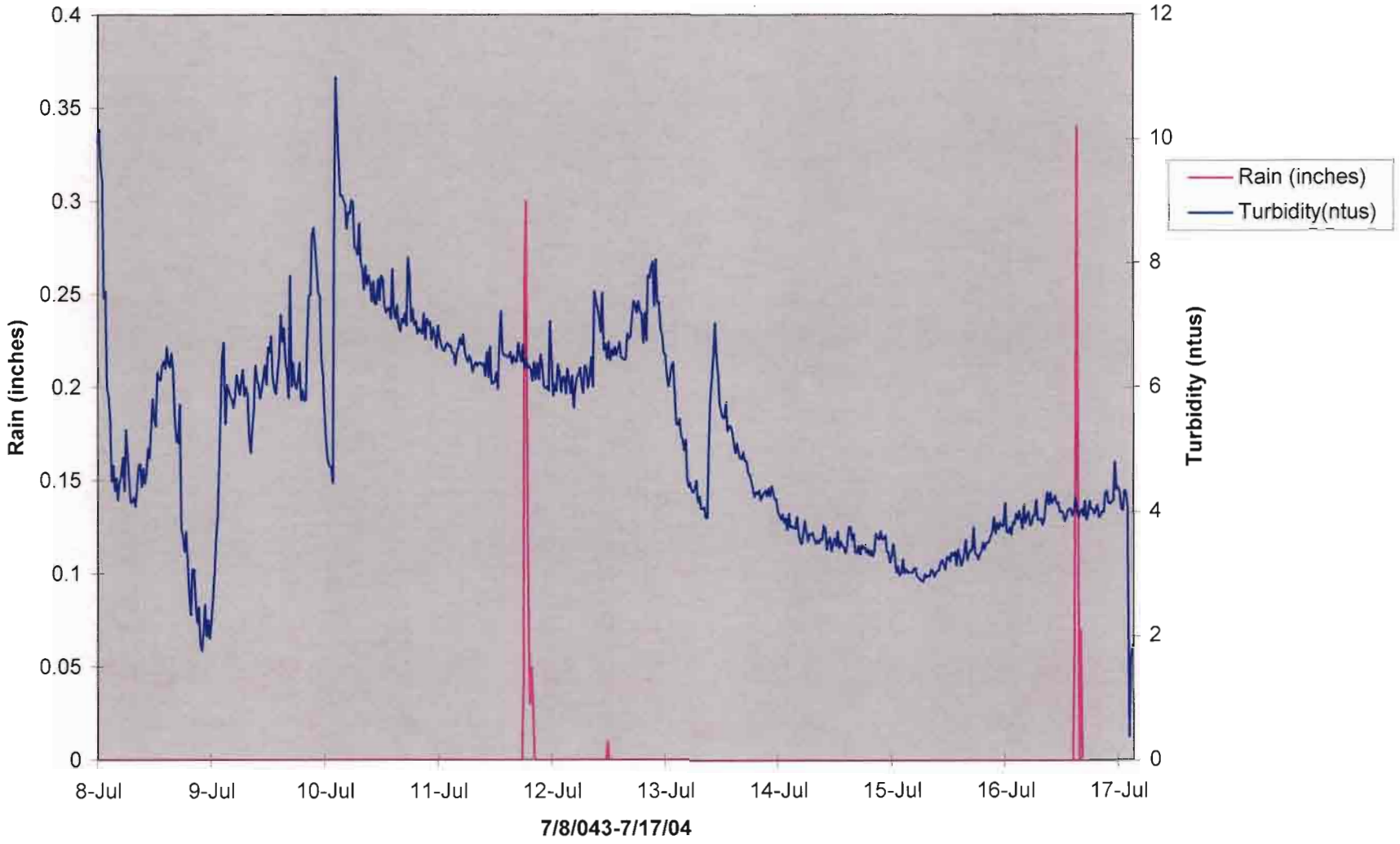
Graph 6.19A: Eastwood Golf Course Monitoring Station Dissolved Oxygen vs Time



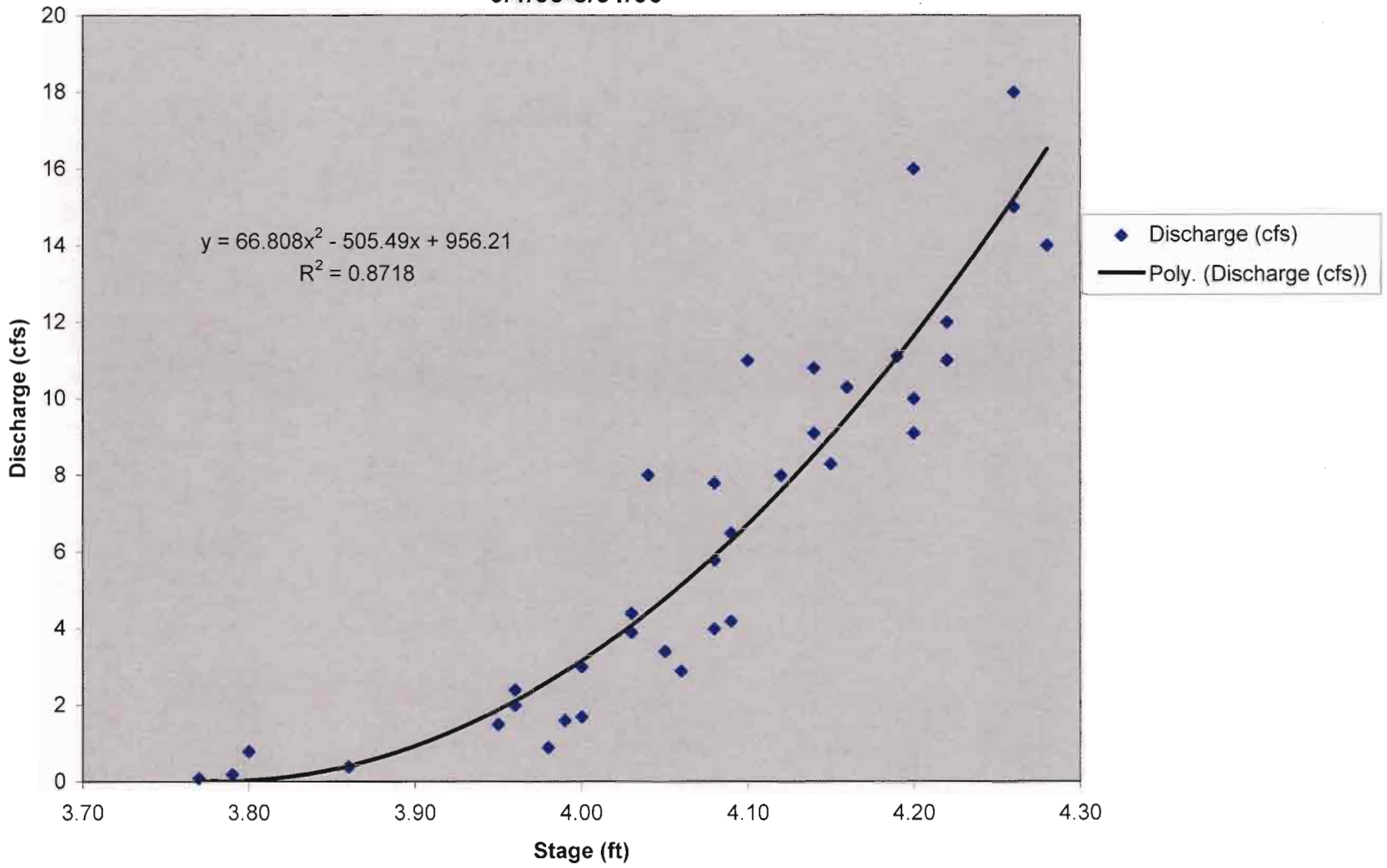
Graph 6.20A: Eastwood Golf Course Monitoring Station Rain\Turbidity vs Time



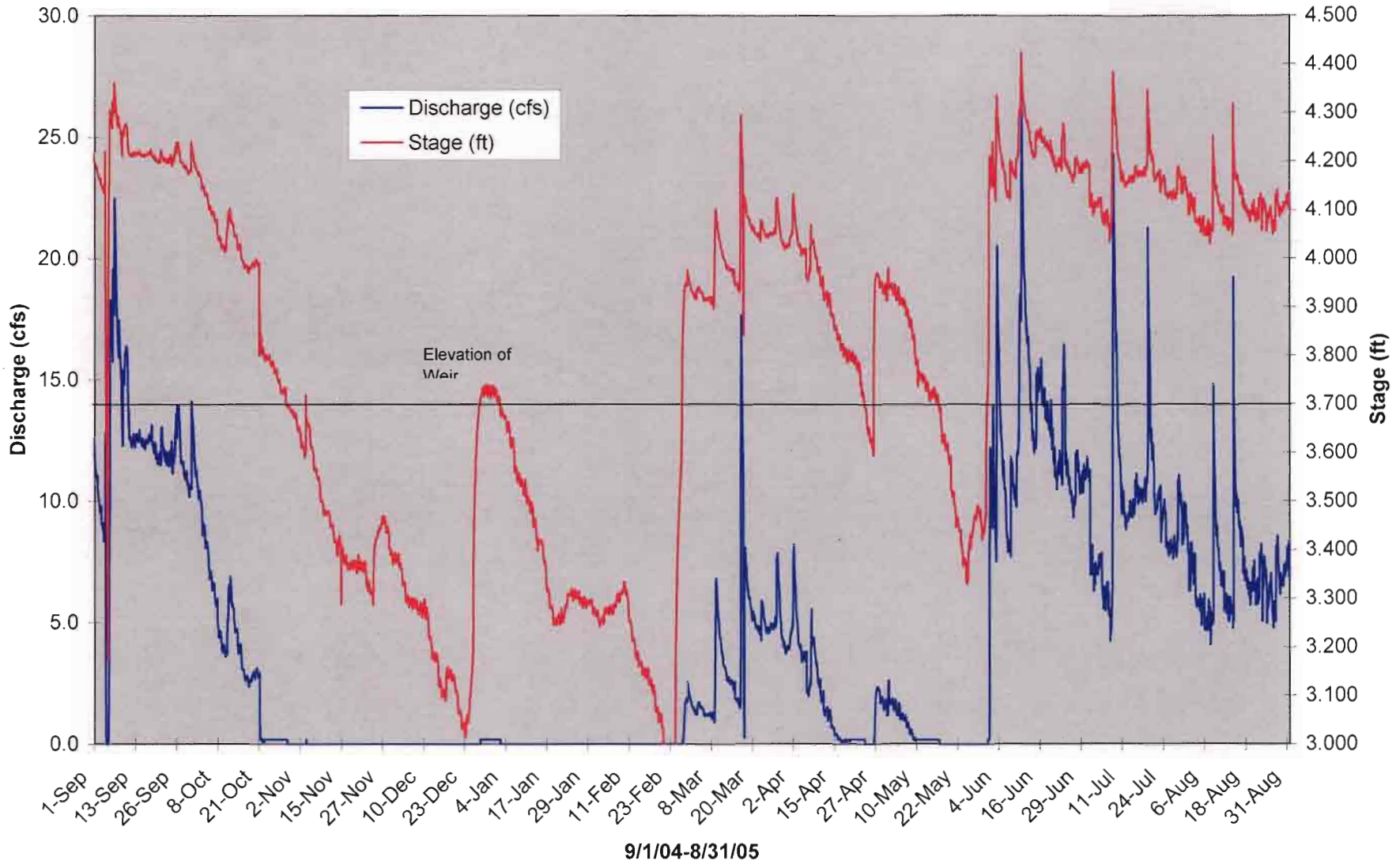
Graph 6.21A: Eastwood Golf Course Monitoring Station Rain\Turbidity vs Time



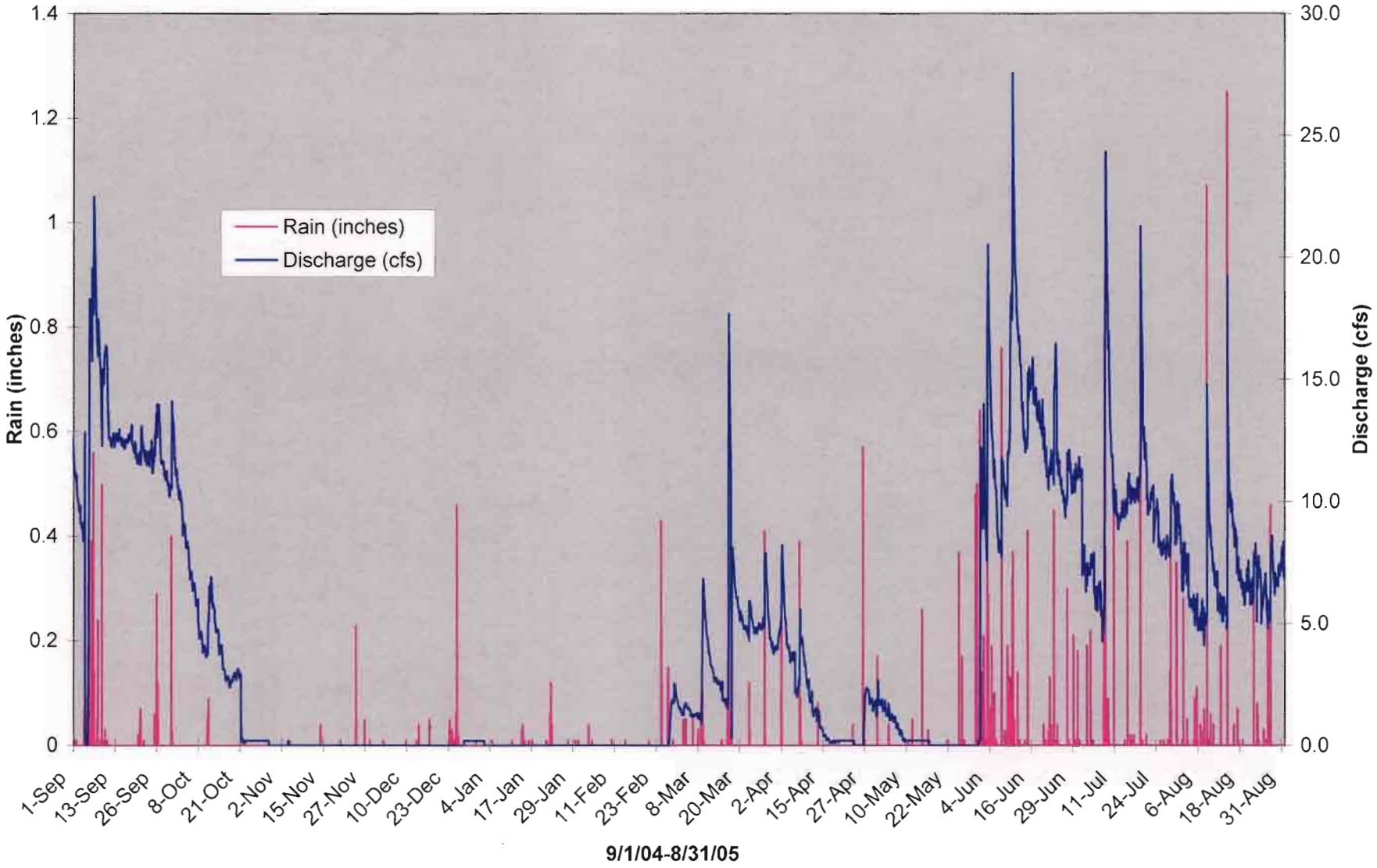
Graph 6.1B: Eastwood Golf Course Monitoring Station Discharge vs Stage Calibration Curve
9/1/03-8/31/06



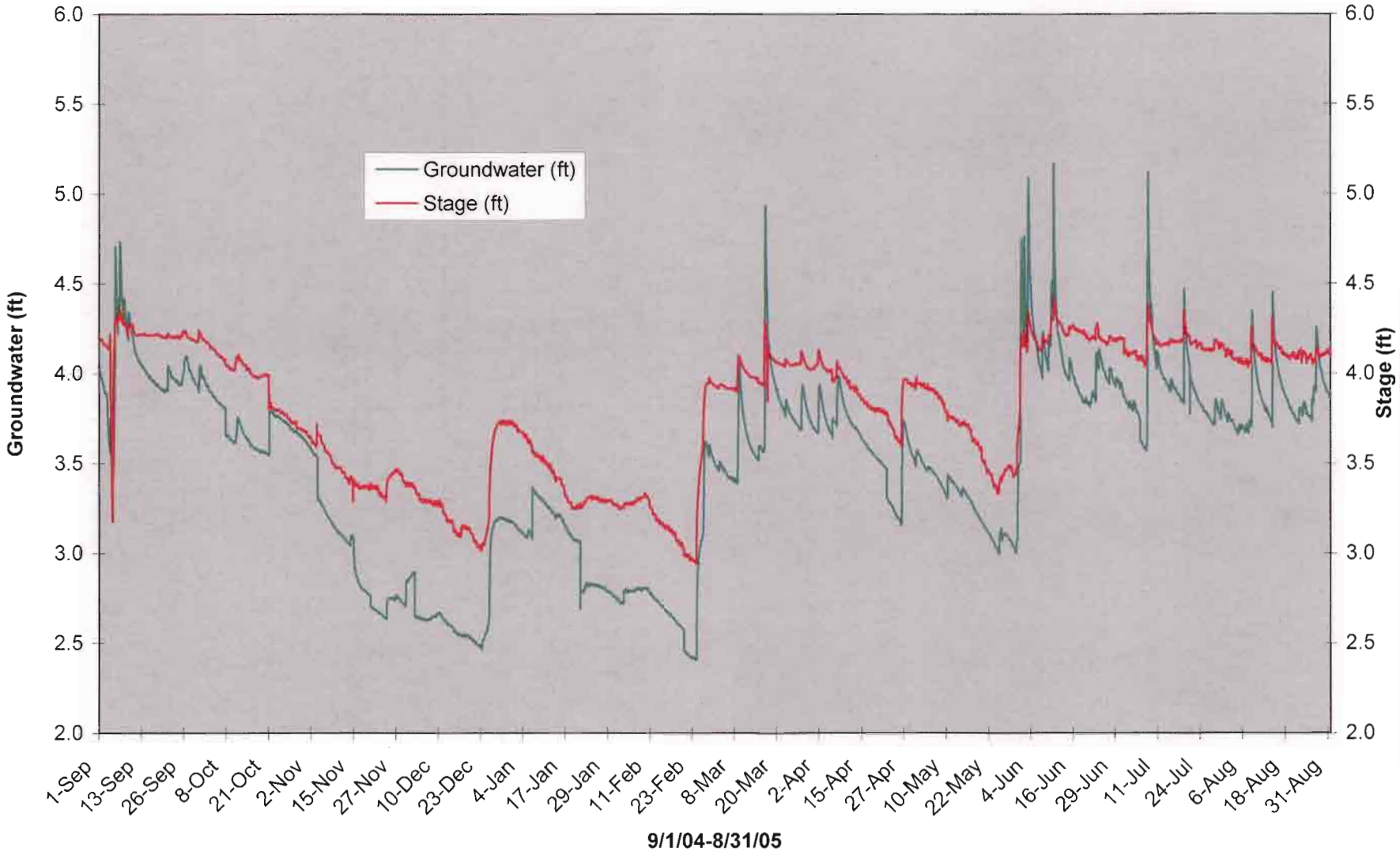
Graph 6.2B: Eastwood Golf Course Monitoring Station Stage\Discharge vs Time



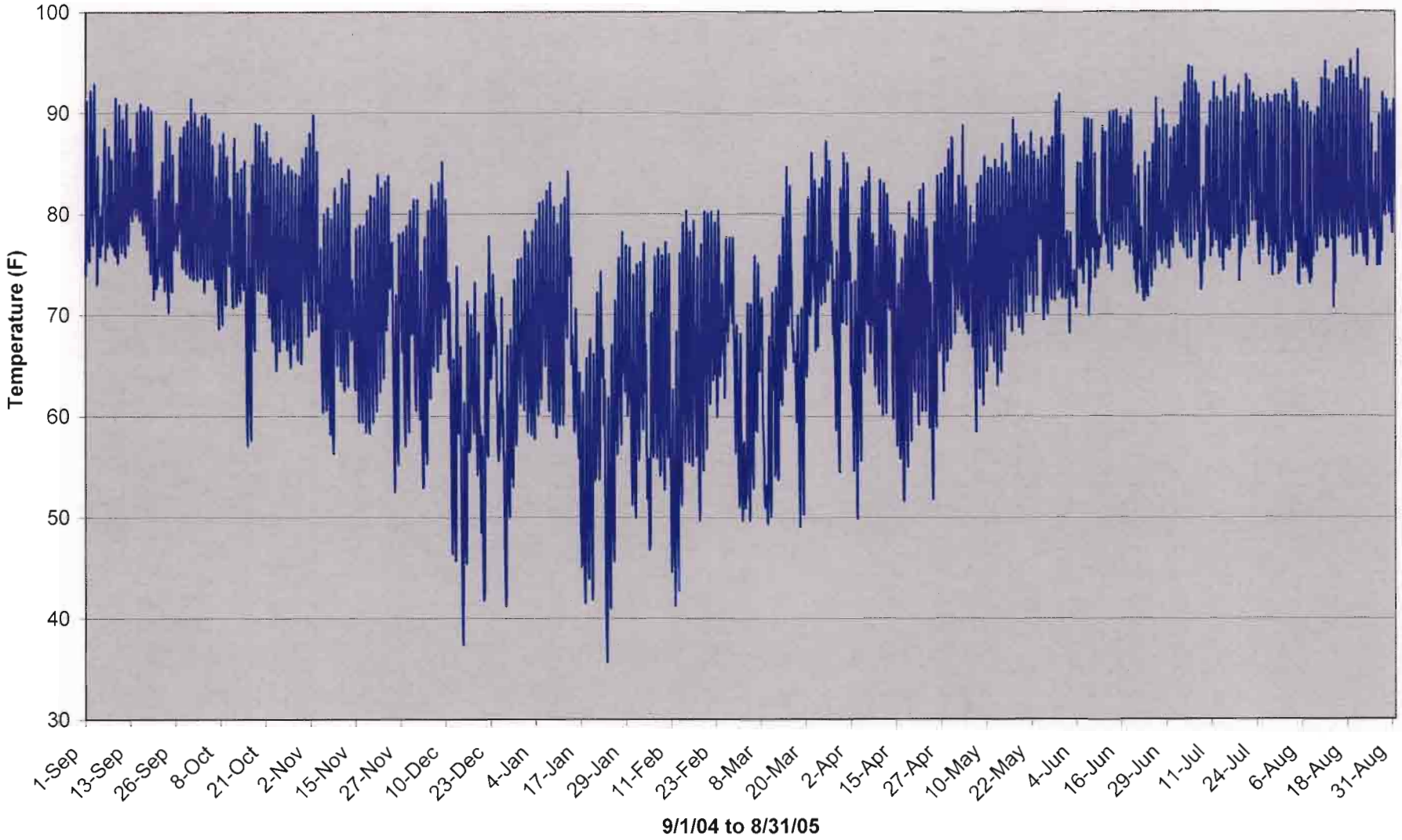
Graph 6.3B: Eastwood Golf Course Monitoring Station Rain\Discharge vs Time



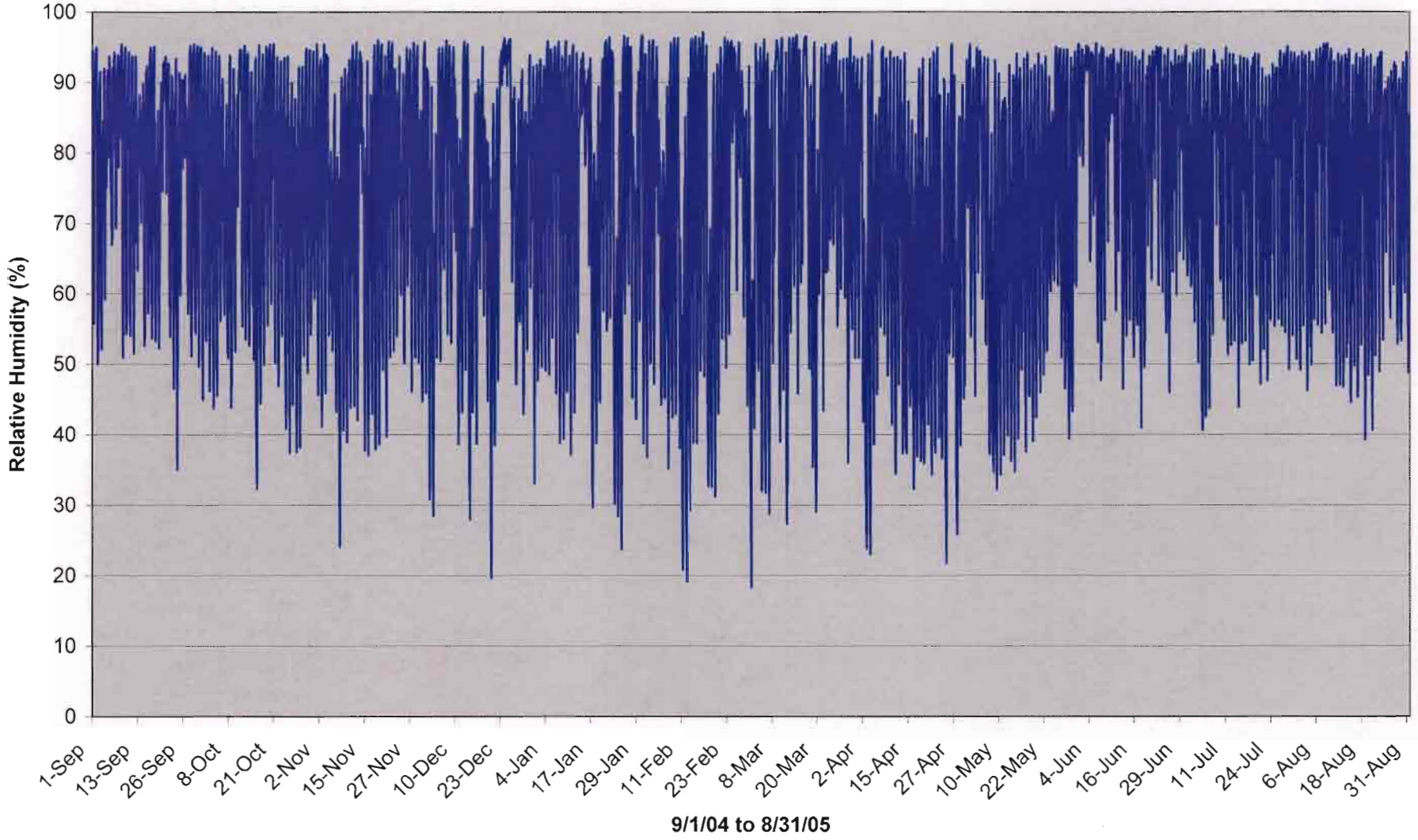
Graph 6.4B: Eastwood Golf Course Monitoring Station Stage vs.Groundwater Elevation



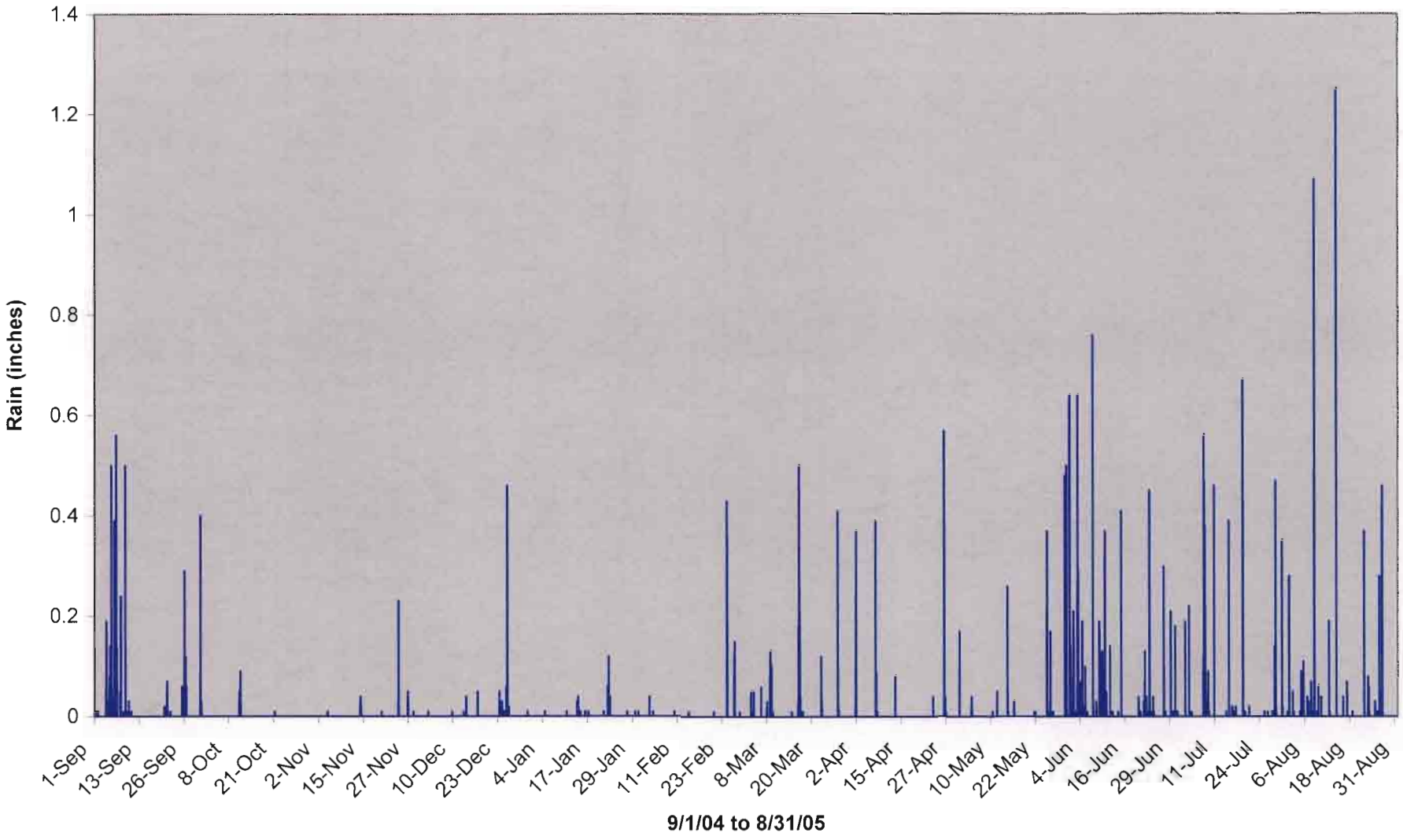
Graph 6.5B: Eastwood Golf Course Weather Station Temperature



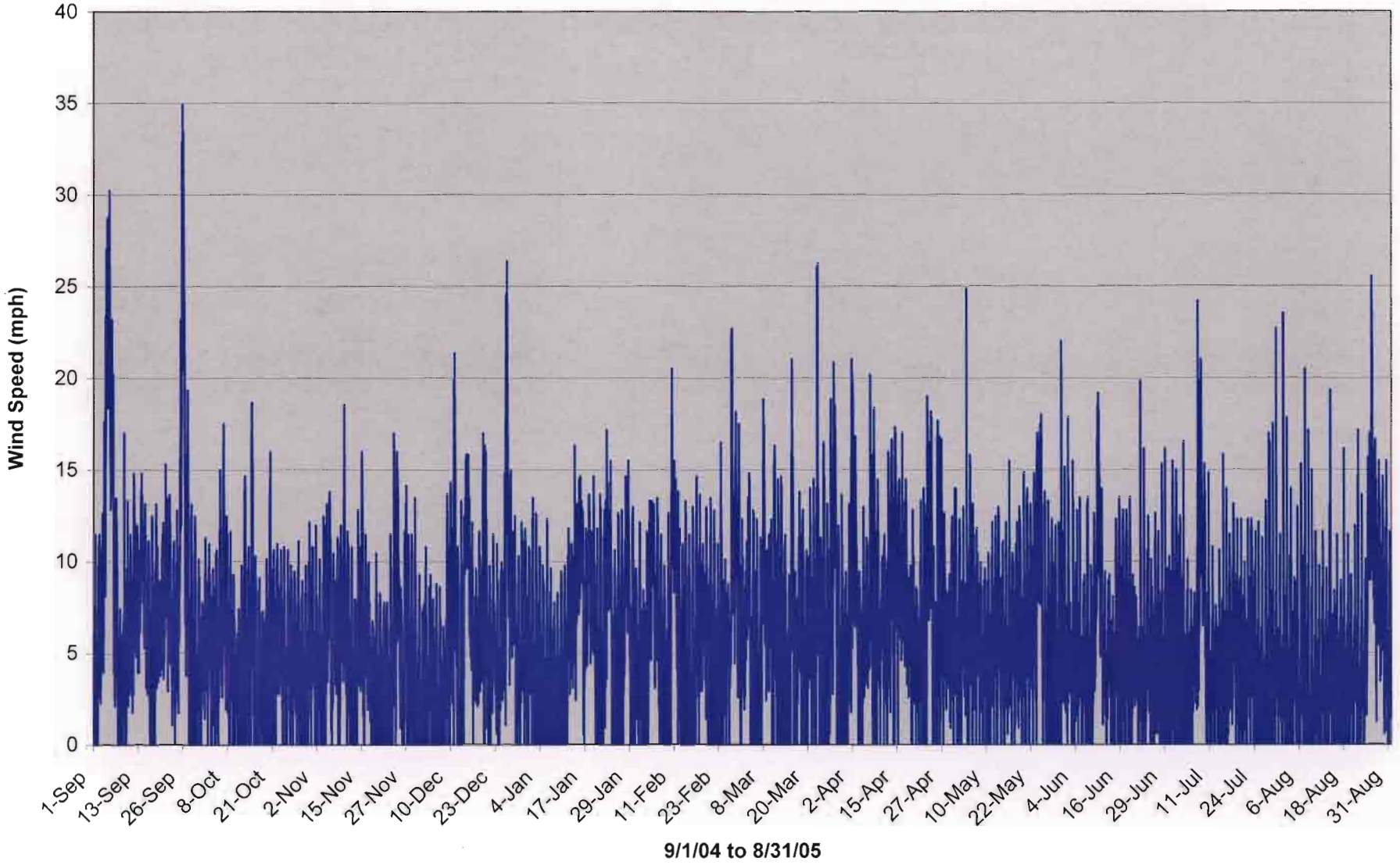
Graph 6.6B: Eastwood Golf Course Weather Station Relative Humidity



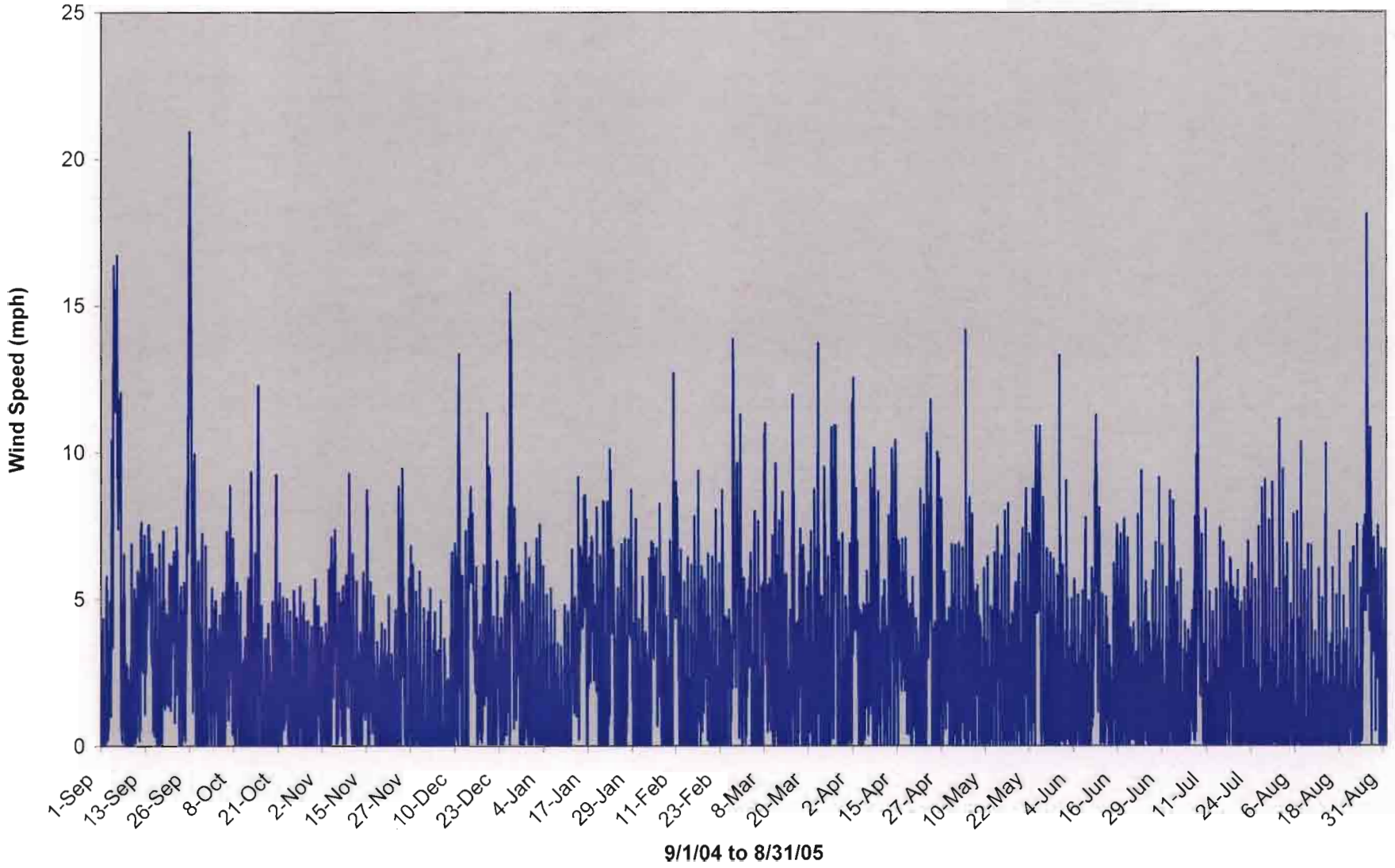
Graph 6.7B: Eastwood Golf Course Weather Station Rain



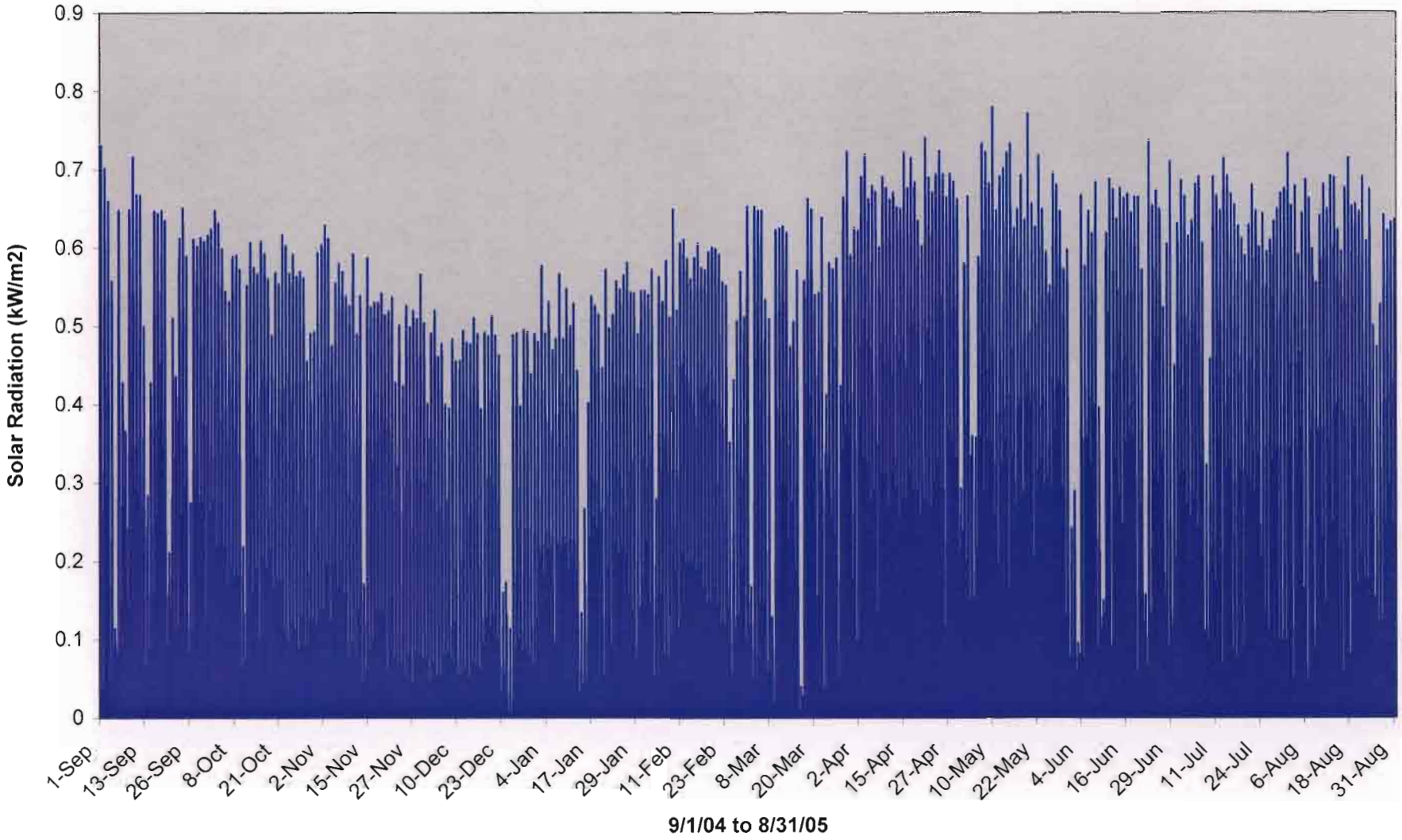
Graph 6.8B: Eastwood Golf Course Weather Station Max Wind Speed



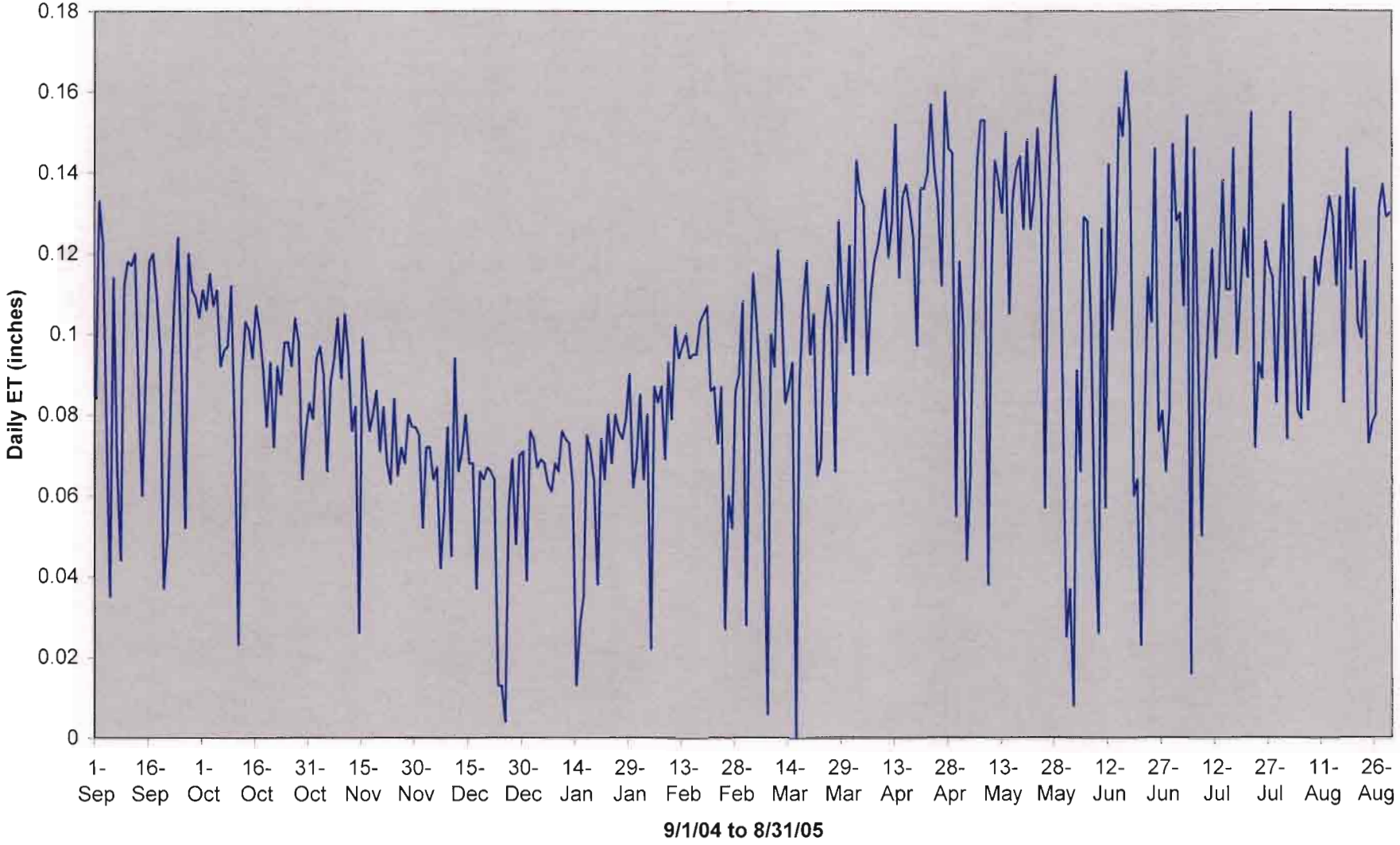
Graph 6.9B: Eastwood Golf Course Weather Station Wind Speed



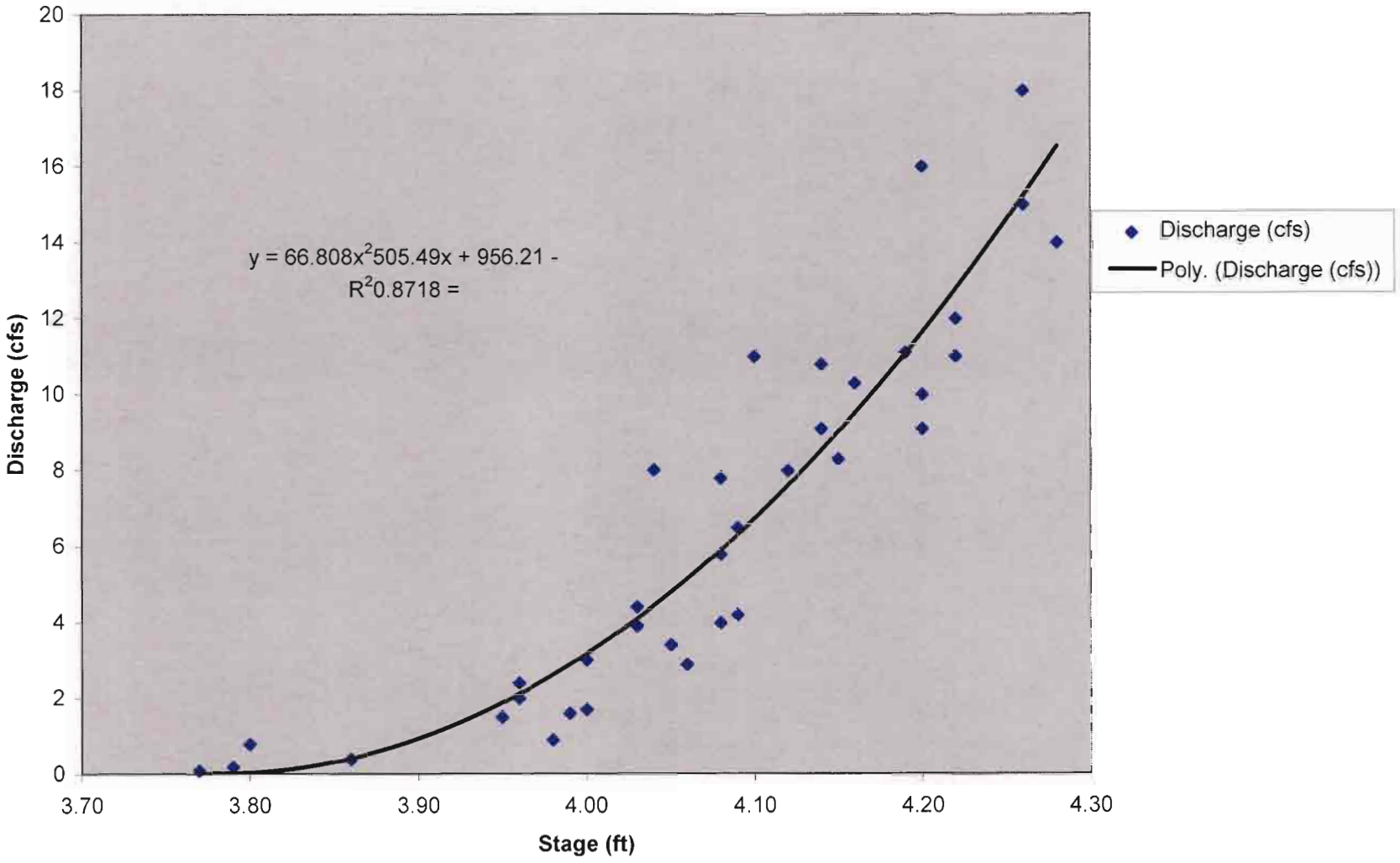
Graph 6.10B: Eastwood Golf Course Weather Station Solar Radiation



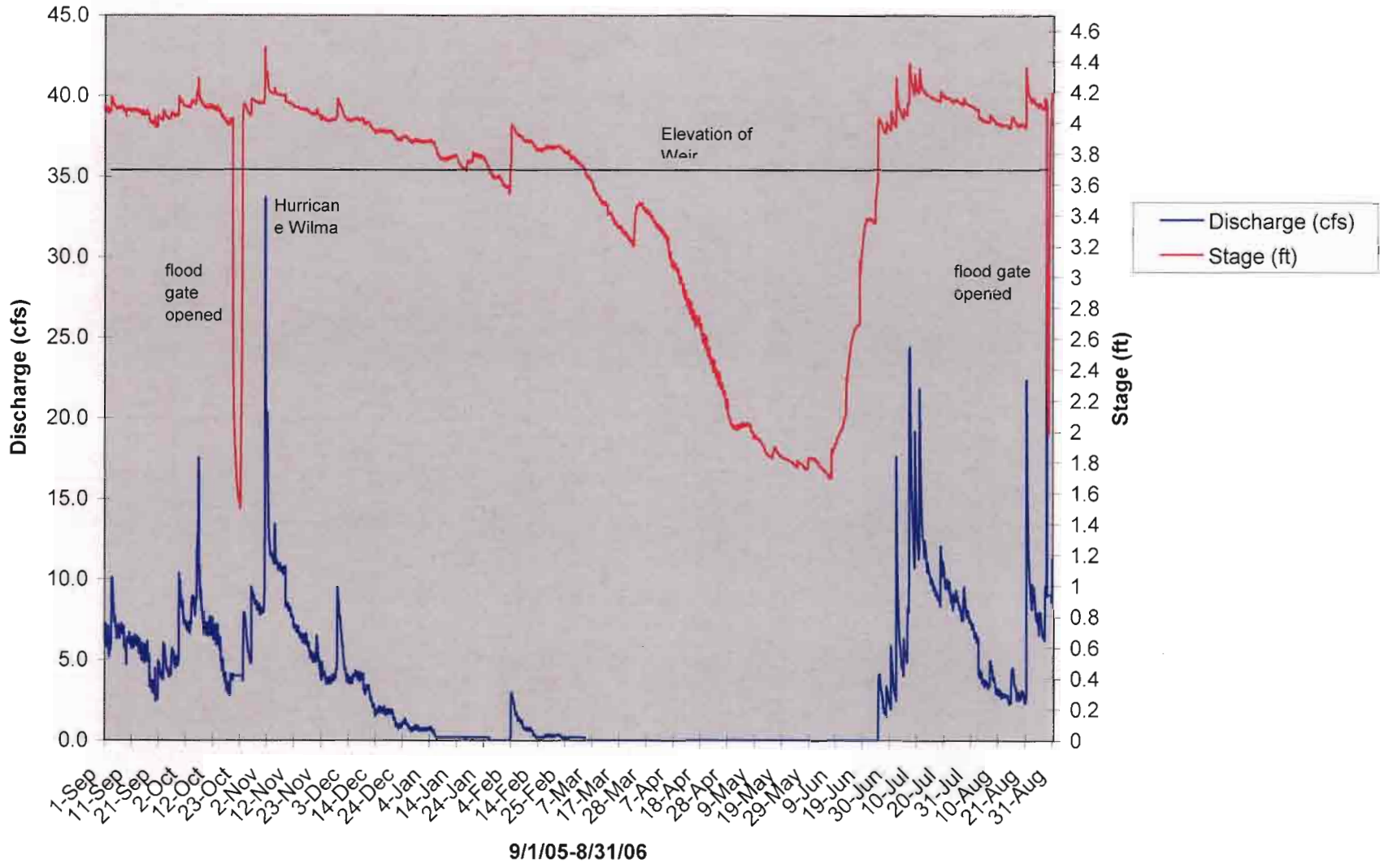
Graph 6.11B: Eastwood Golf Course Weather Station Evapotranspiration



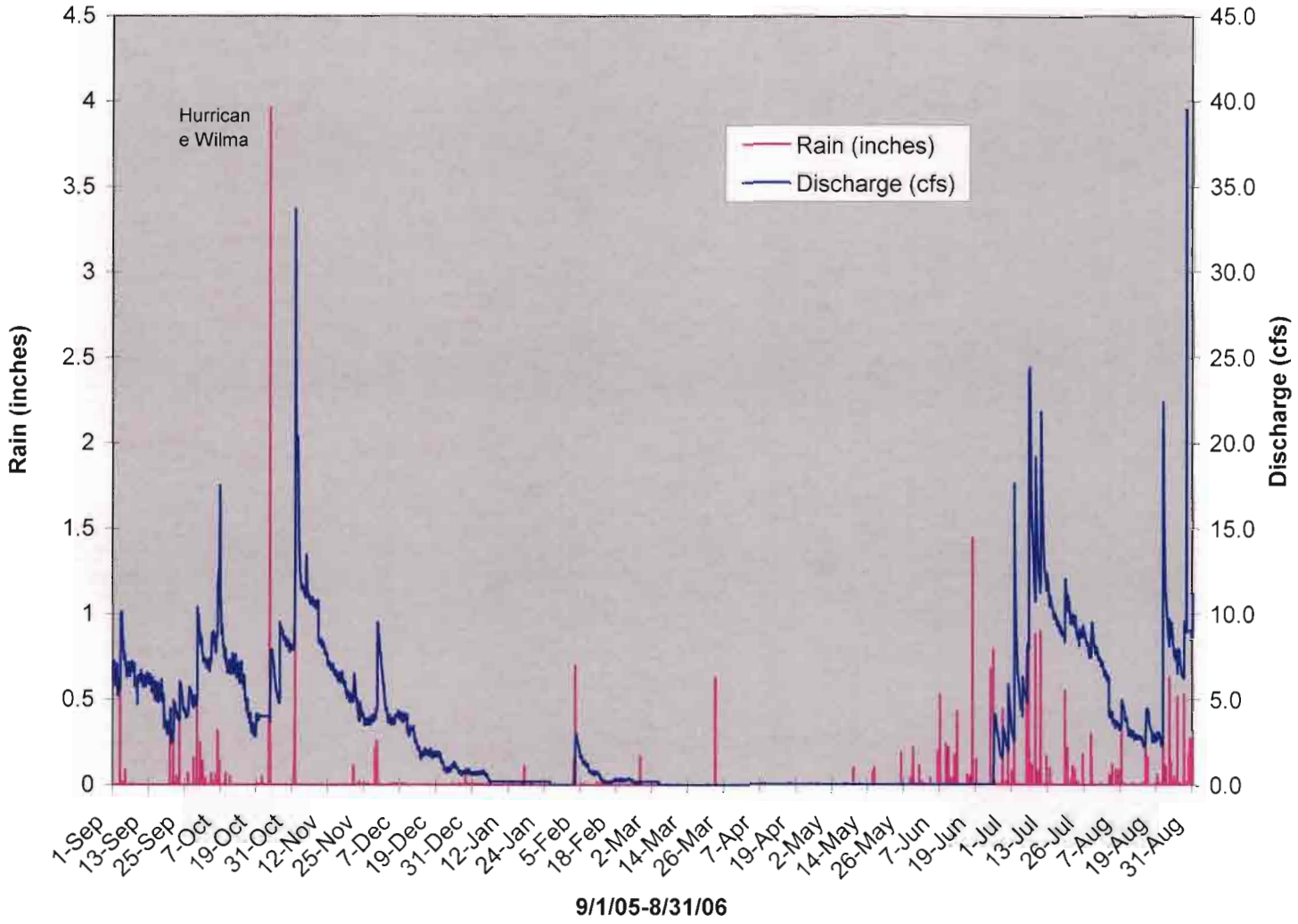
Graph 6.1C: Eastwood Golf Course Monitoring Station Discharge vs Stage Calibration Curve
9/1/03-8/31/06



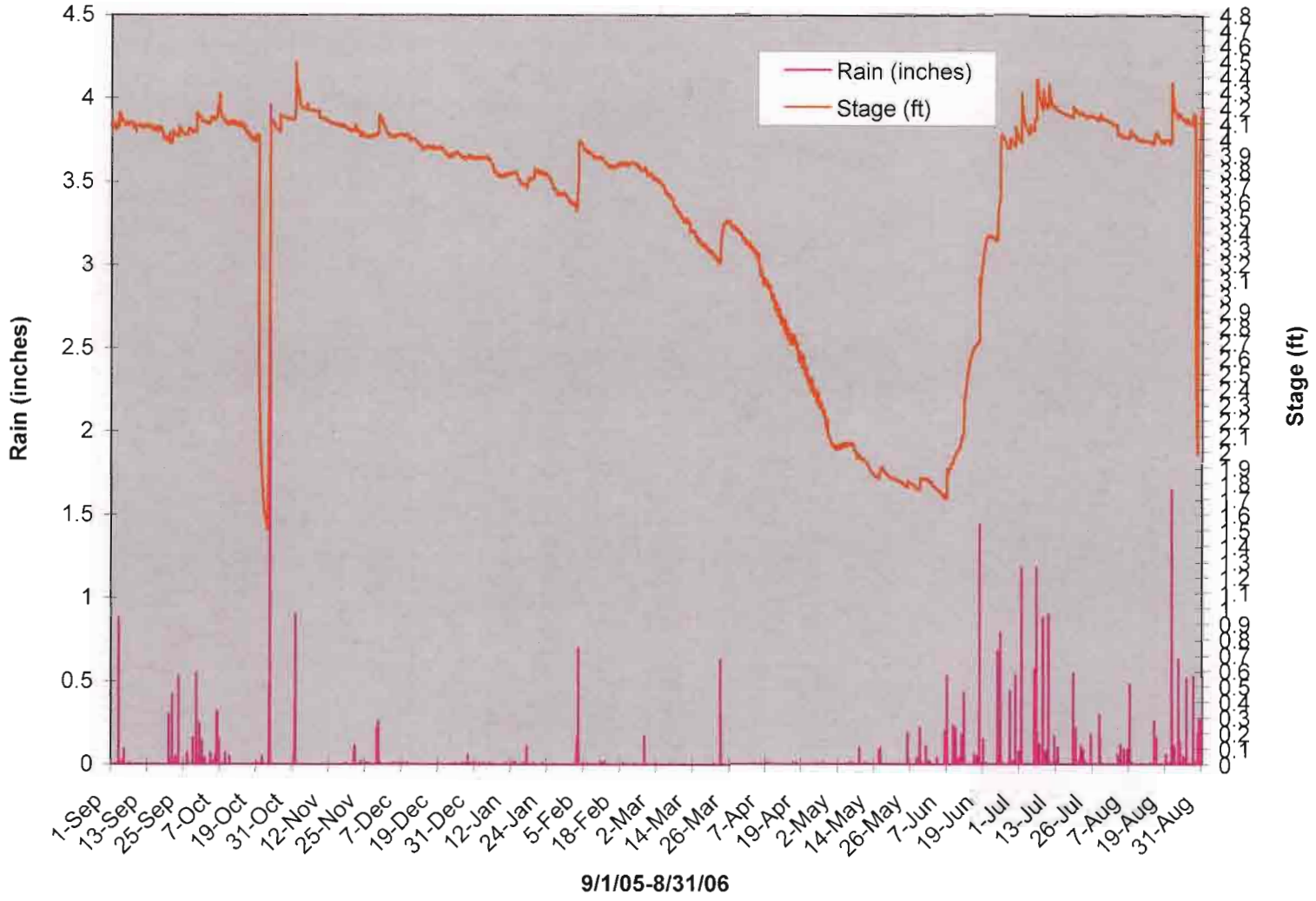
Graph 6.2C: Eastwood Golf Course Monitoring Station Stage\Discharge vs Time



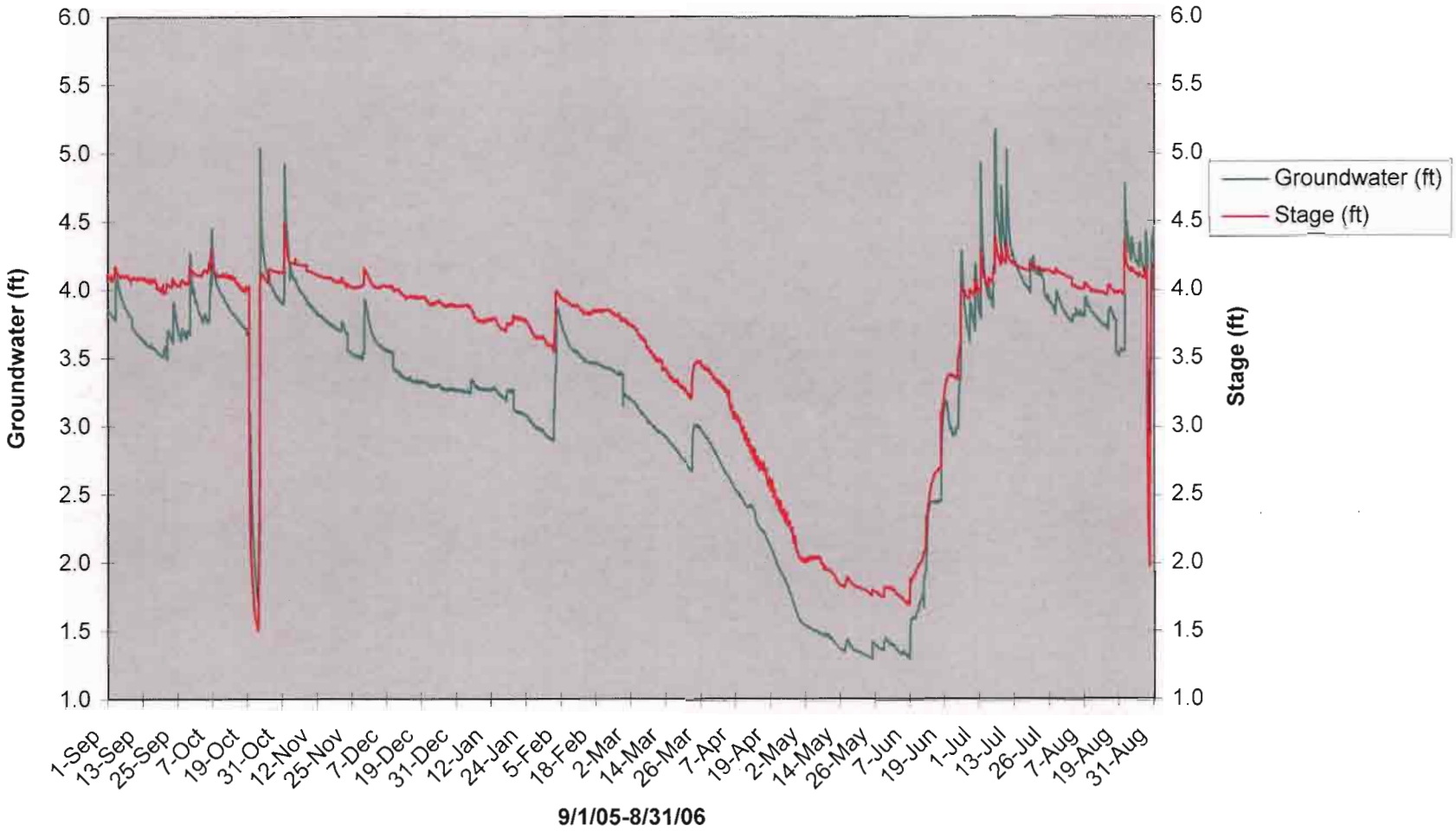
Graph 6.3C: Eastwood Golf Course Monitoring Station Rain\Discharge vs Time



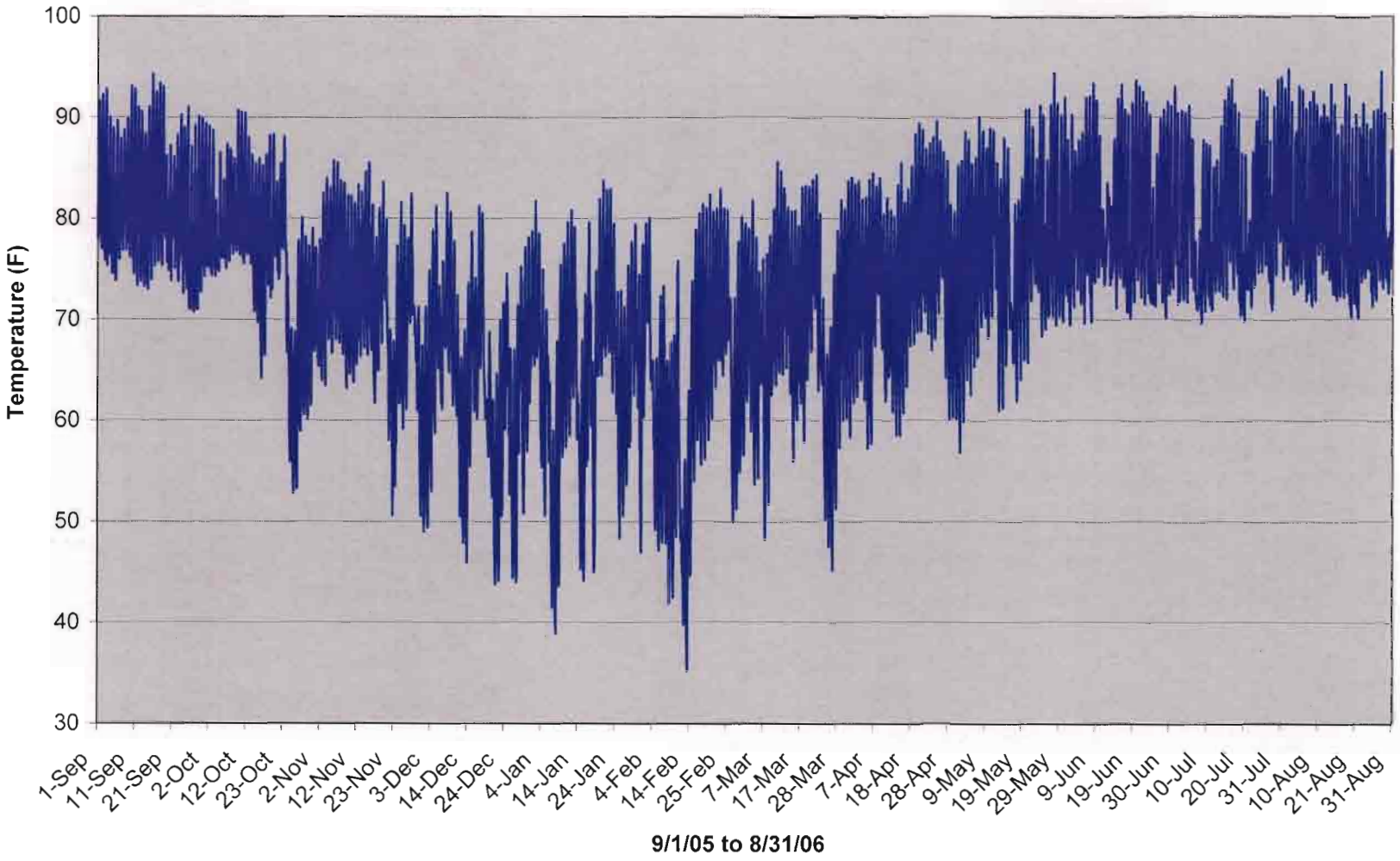
Graph 6.4C: Eastwood Golf Course Monitoring Station Rain\Stage vs Time



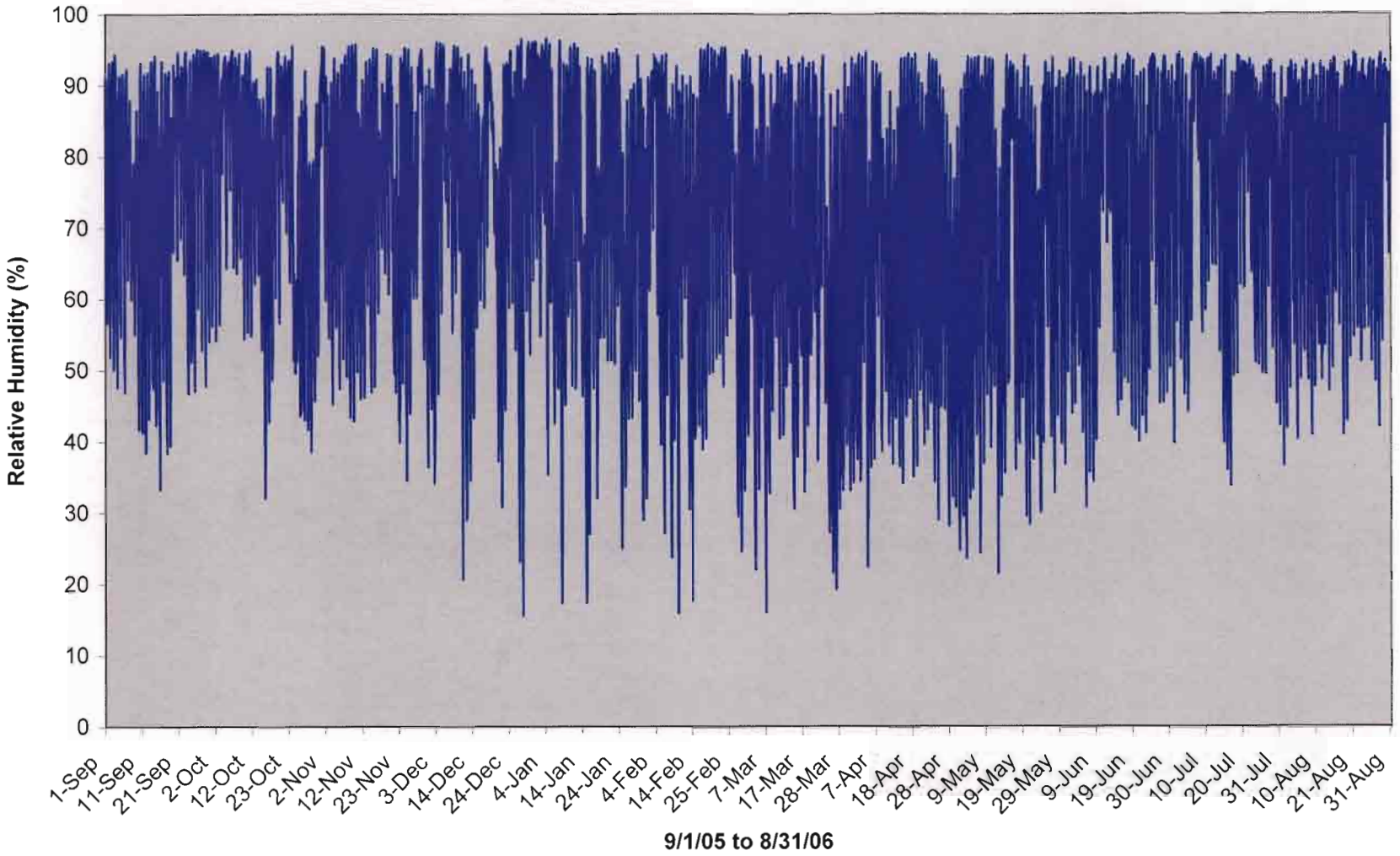
Graph 6.5C: Eastwood Golf Course Monitoring Station Stage vs.Groundwater Elevation



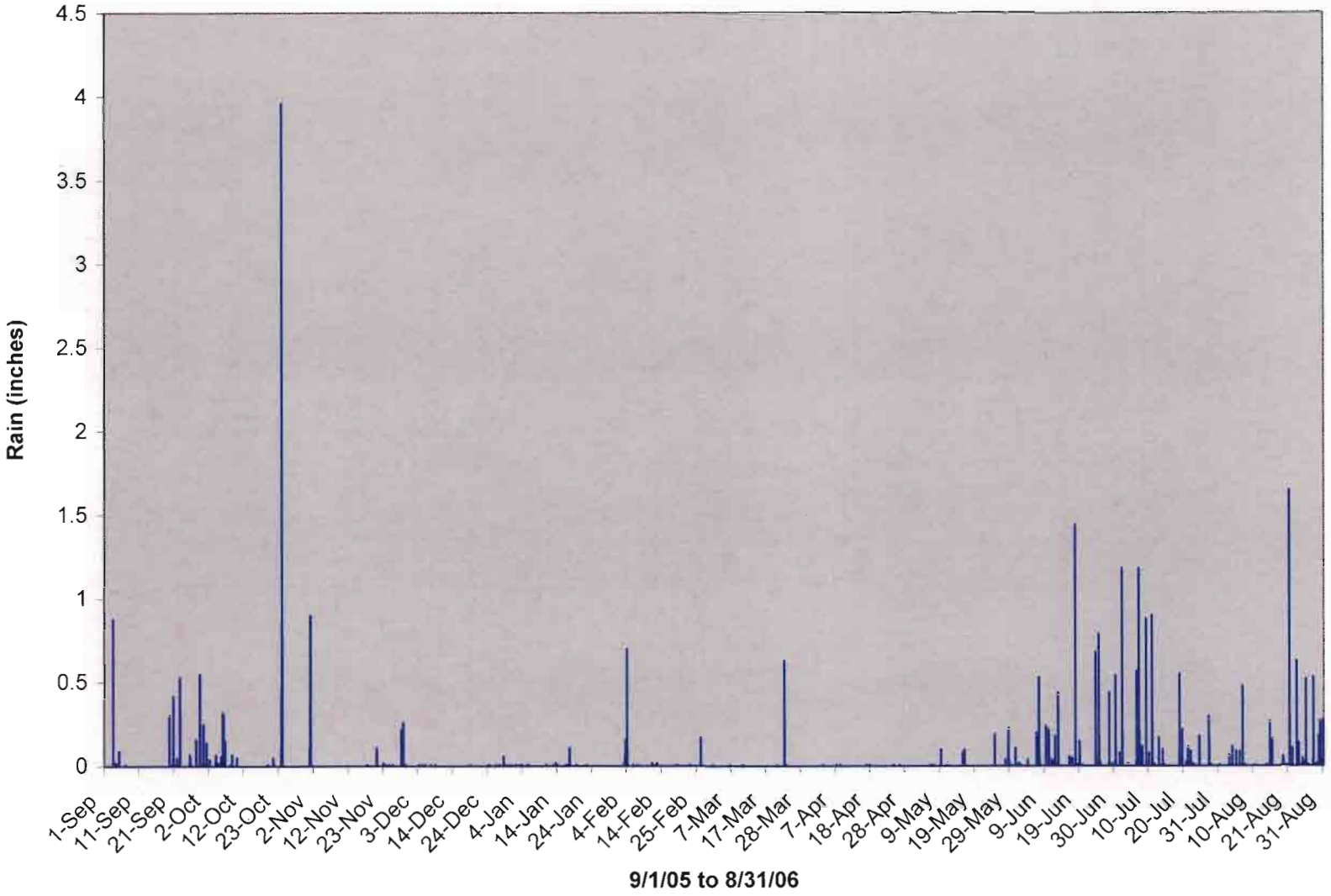
Graph 6.6C: Eastwood Golf Course Weather Station Temperature



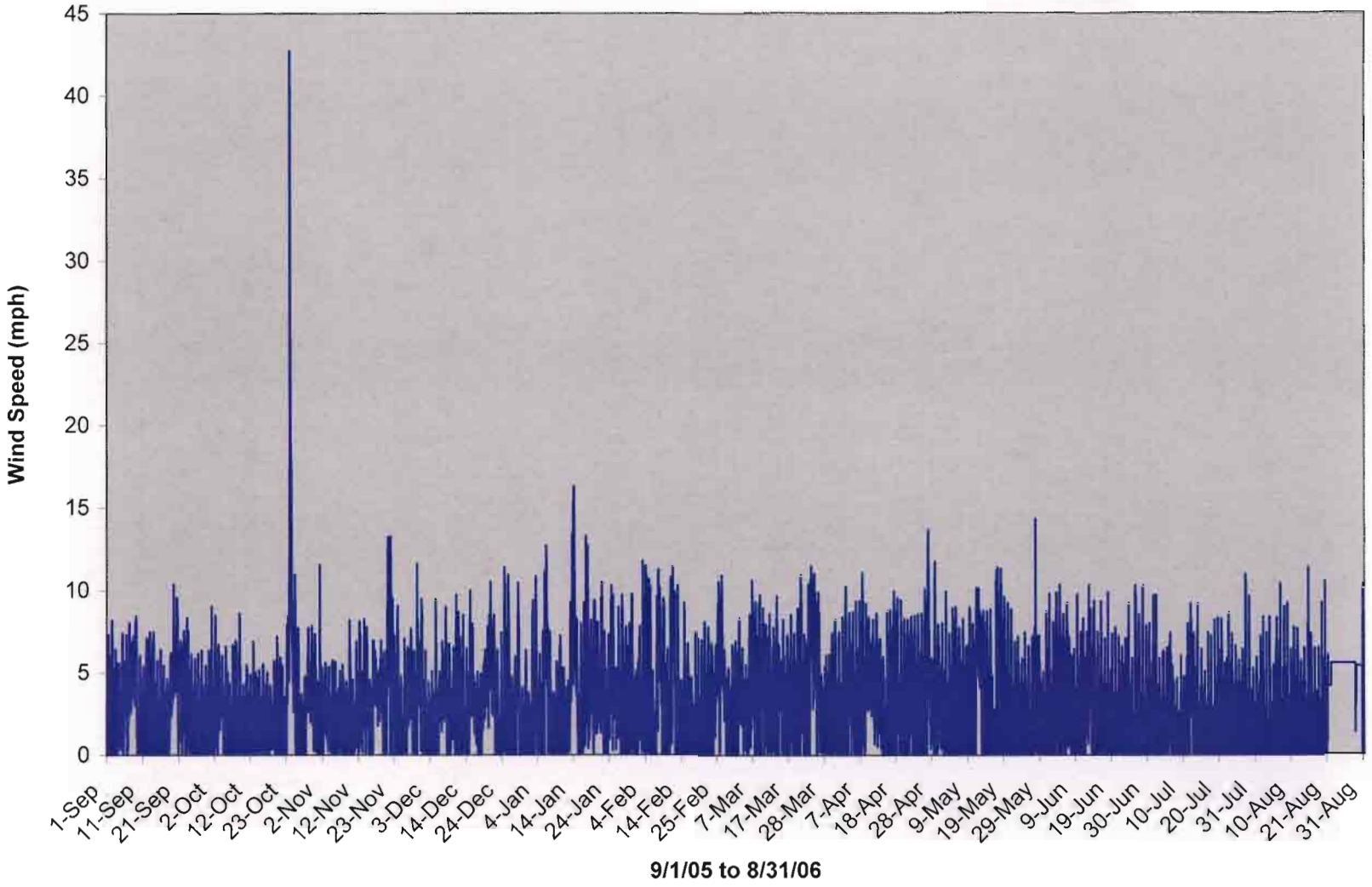
Graph 6.7C: Eastwood Golf Course Weather Station Relative Humidity



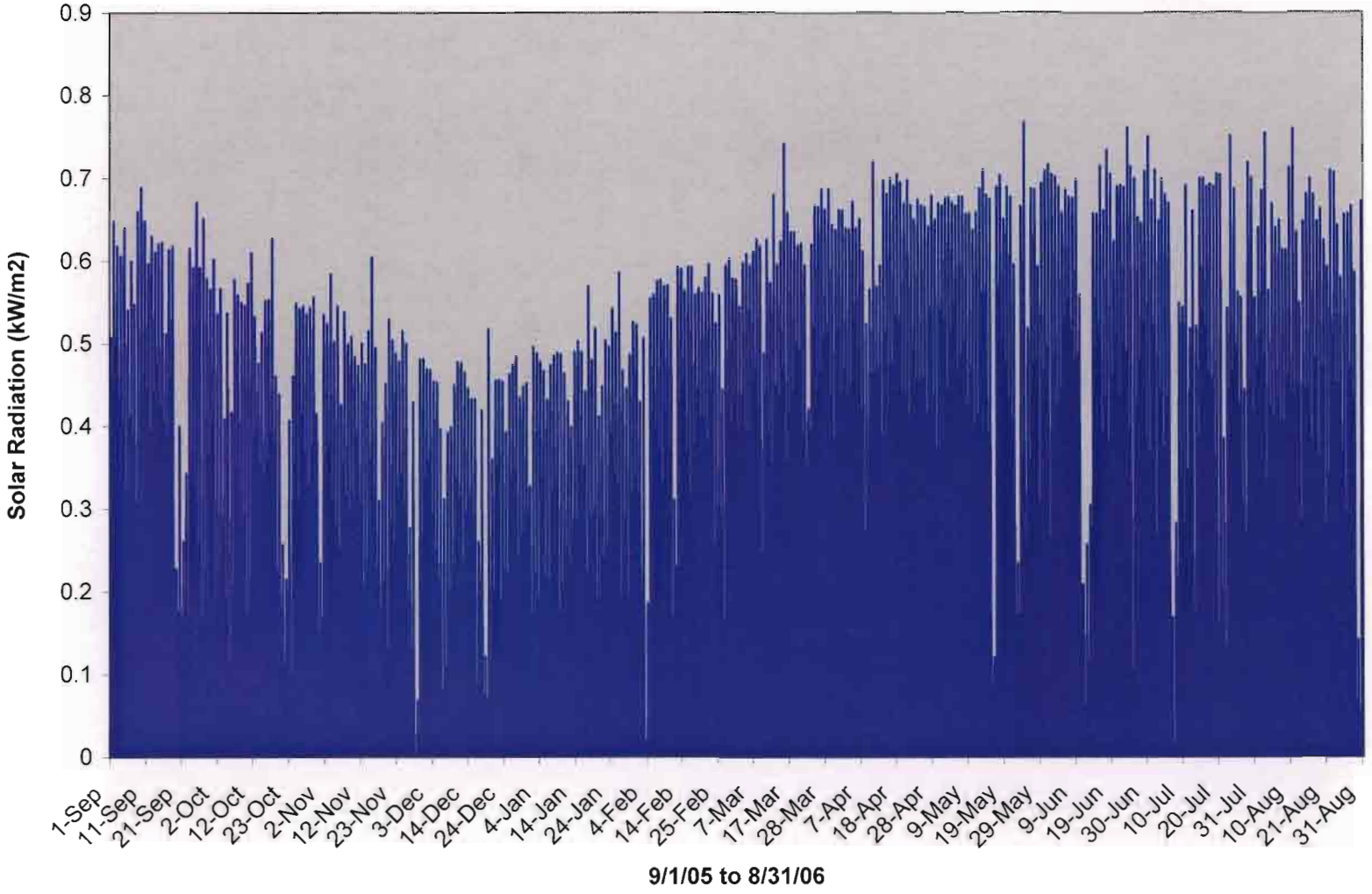
Graph 6.8C: Eastwood Golf Course Weather Station Rain



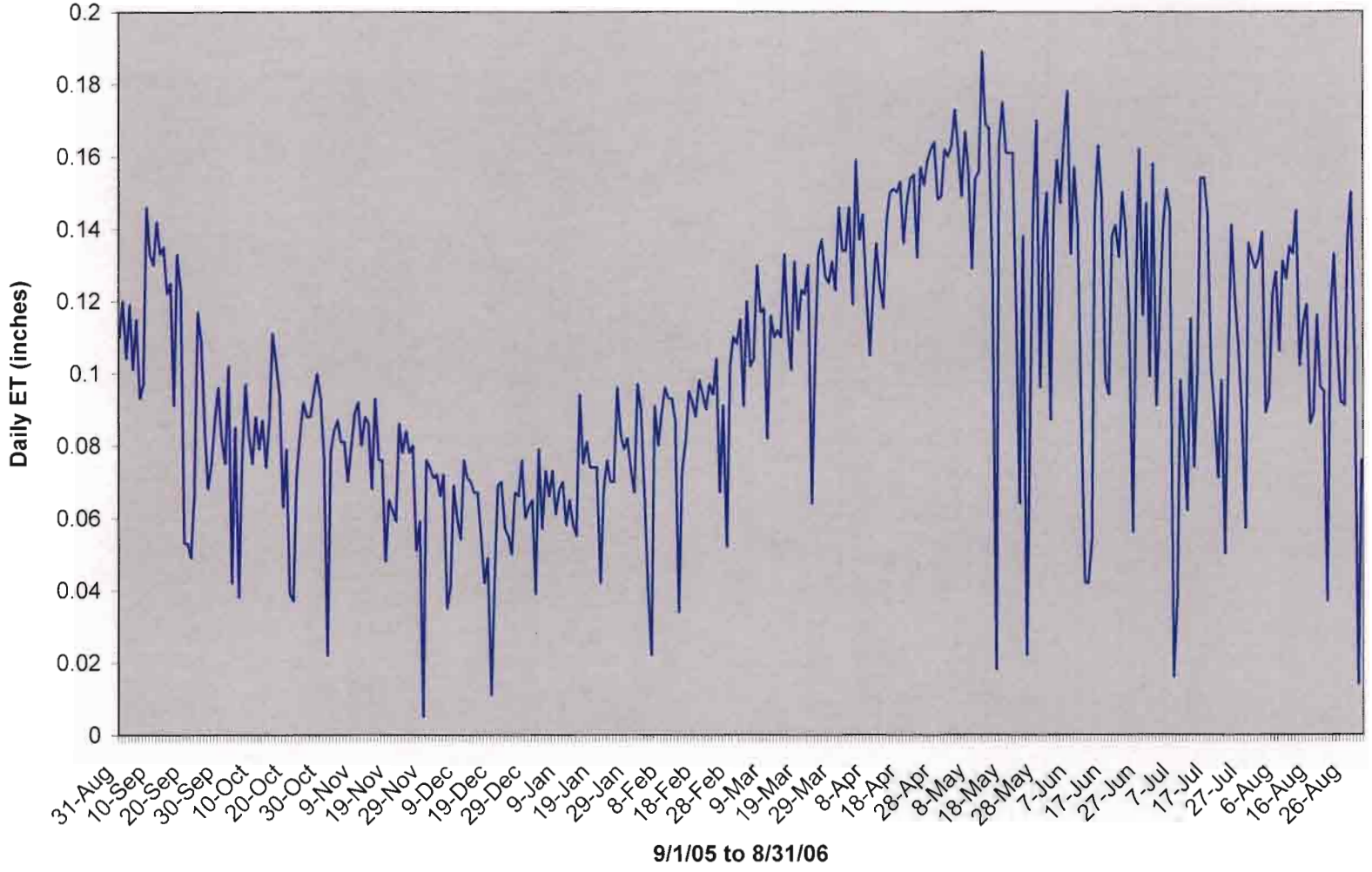
Graph 6.9C: Eastwood Golf Course Weather Station Wind Speed



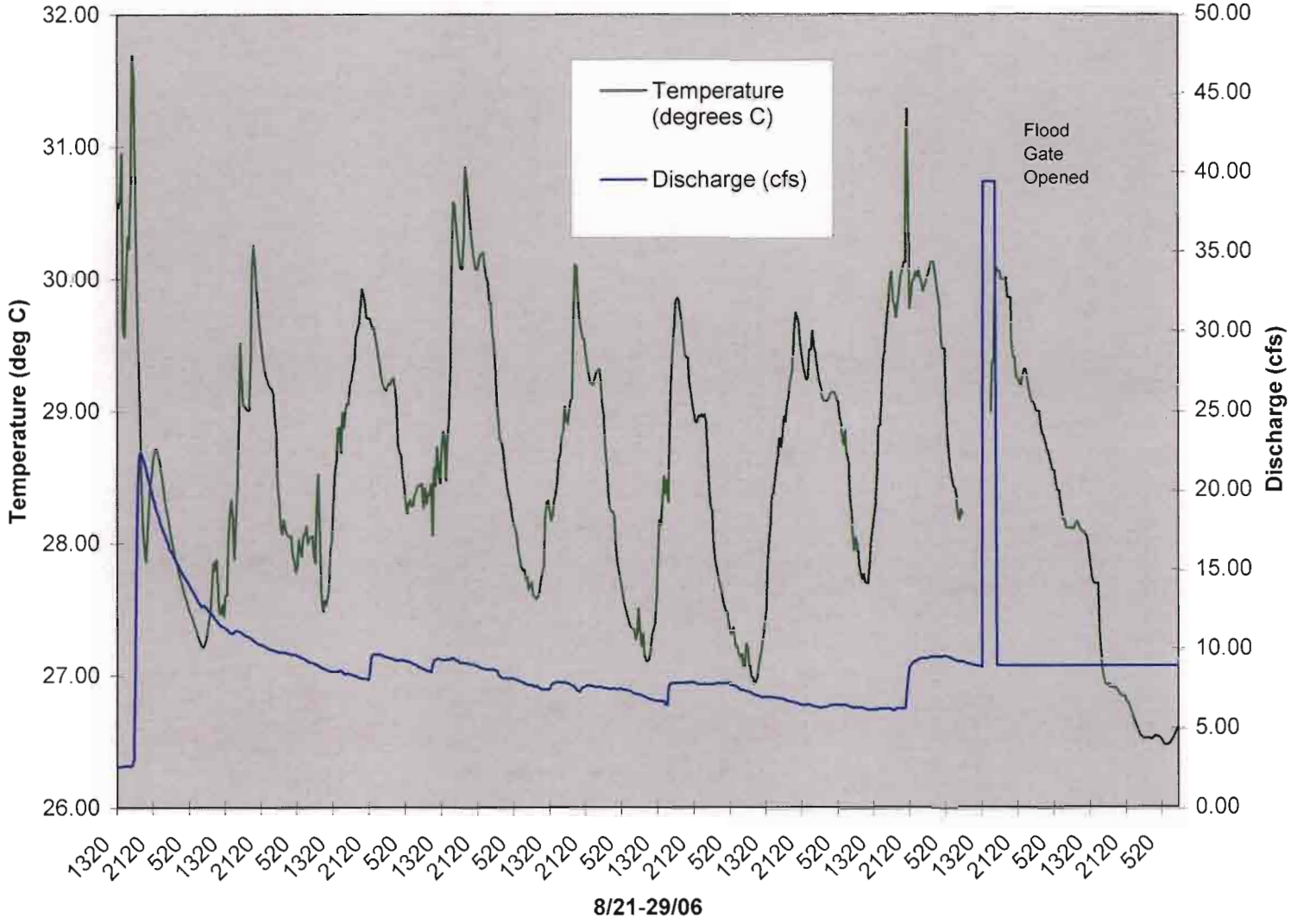
Graph 6.10C: Eastwood Golf Course Weather Station Solar Radiation



Graph 6.11C: Eastwood Golf Course Weather Station Evapotranspiration

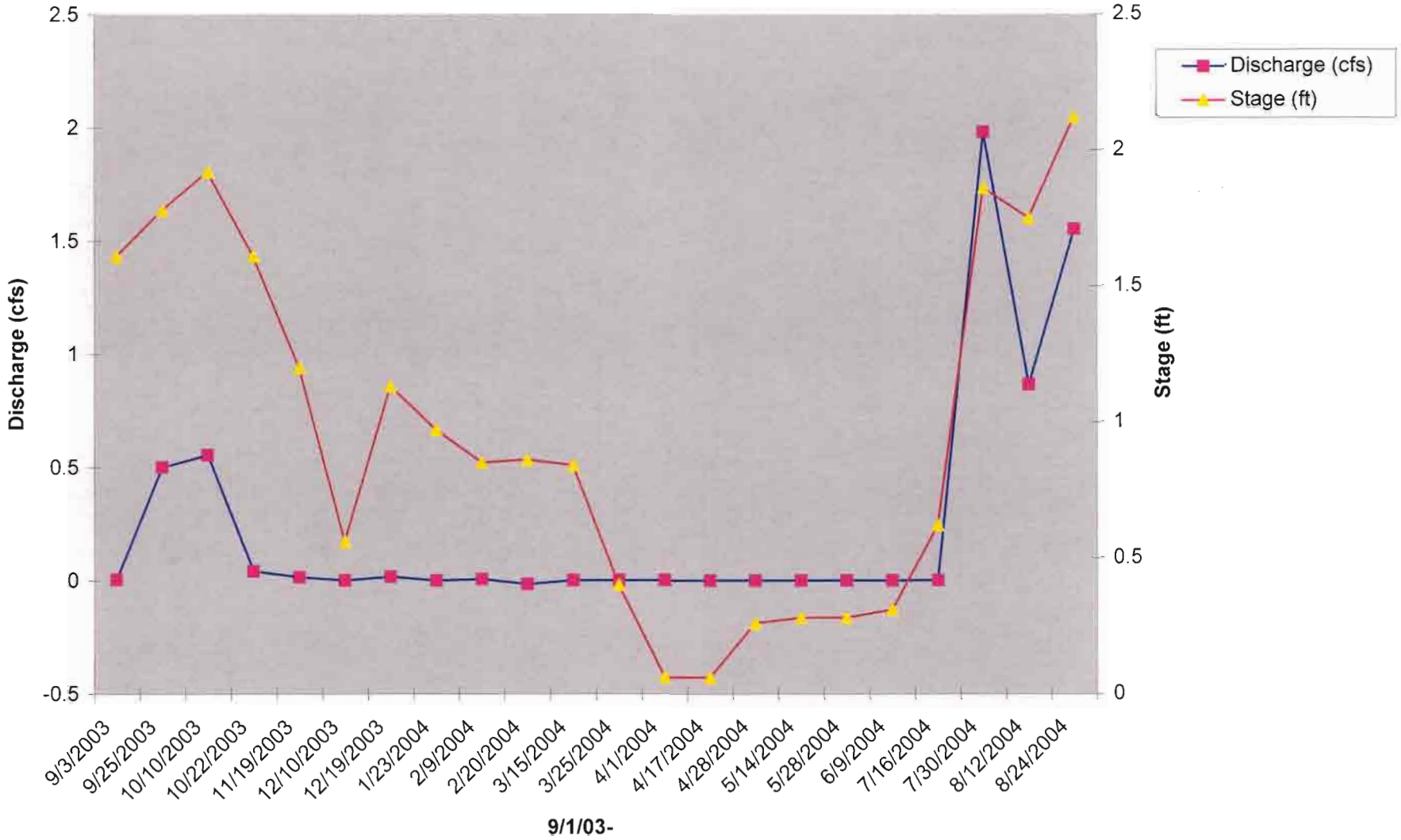


Graph 6.12C: Eastwood Golf Course Monitoring Station Water Temperature/Discharge vs Time 8/21/06- 8/29/06

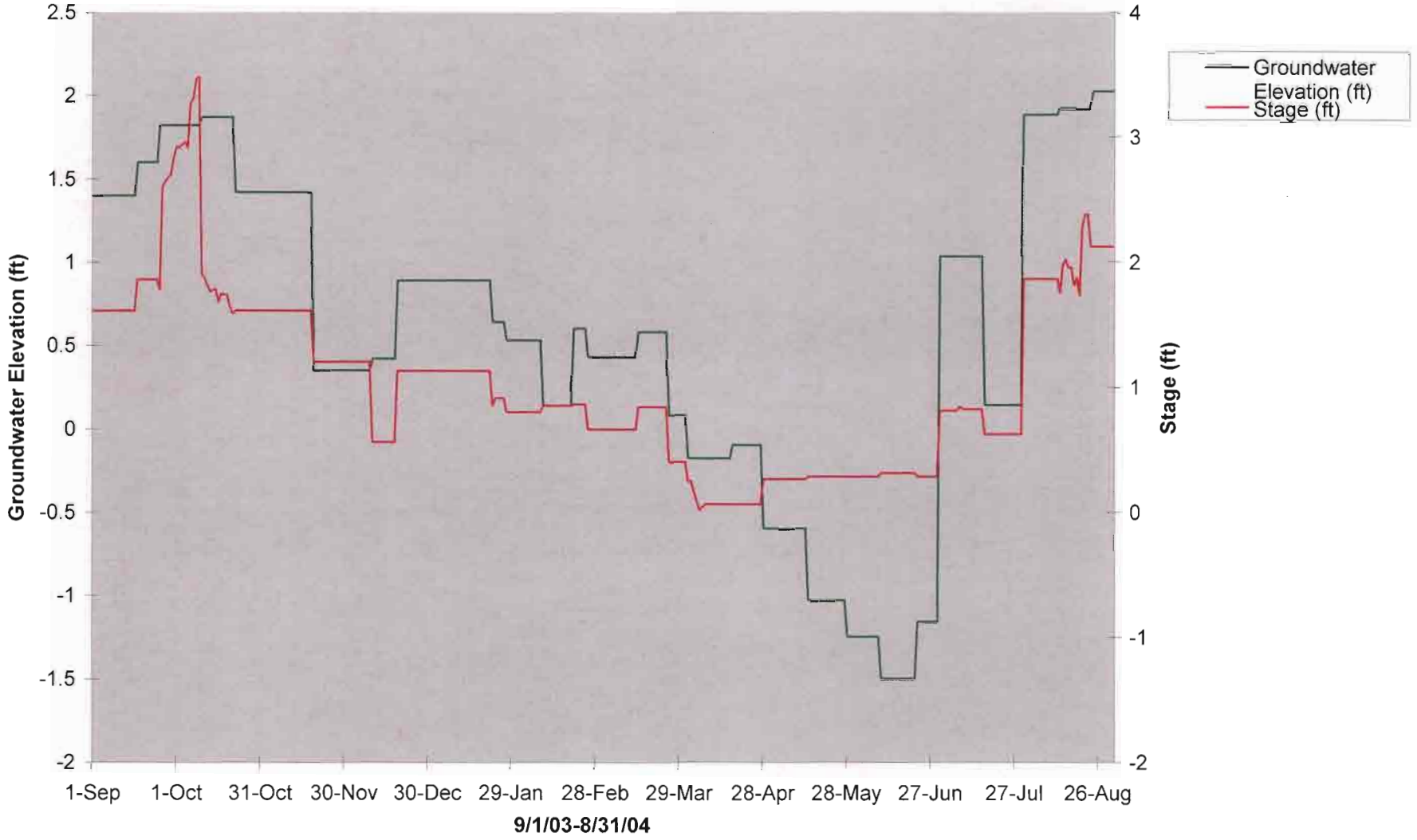


A.7 FLORIDA GULF COAST UNIVERSITY GRAPHS

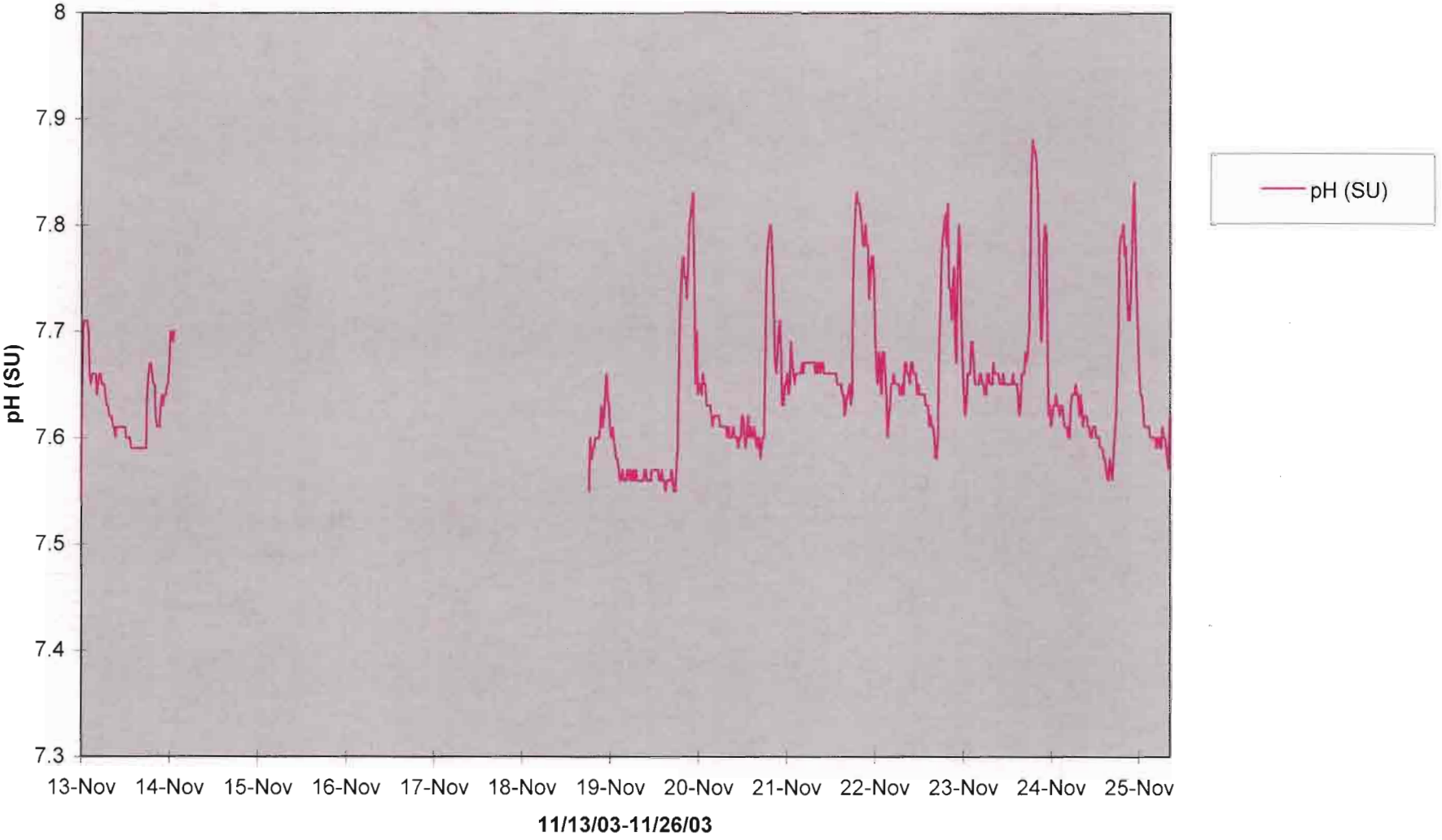
Graph 7.1A: FGCU Monitoring Station Discharge (ADV)\Stage vs Time



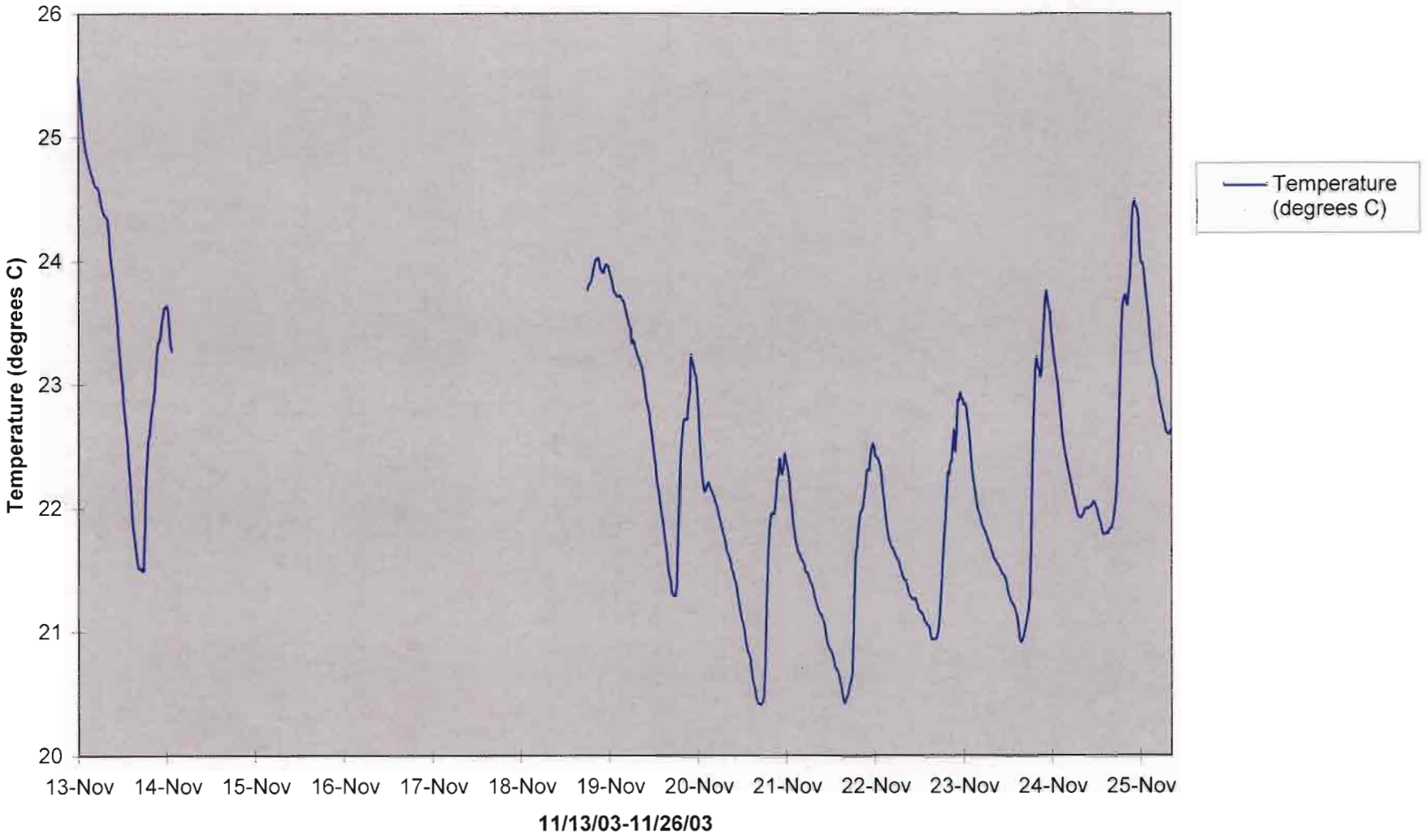
Graph 7.2A: FGCU Monitoring Station Groundwater Elevation\Stage vs Time



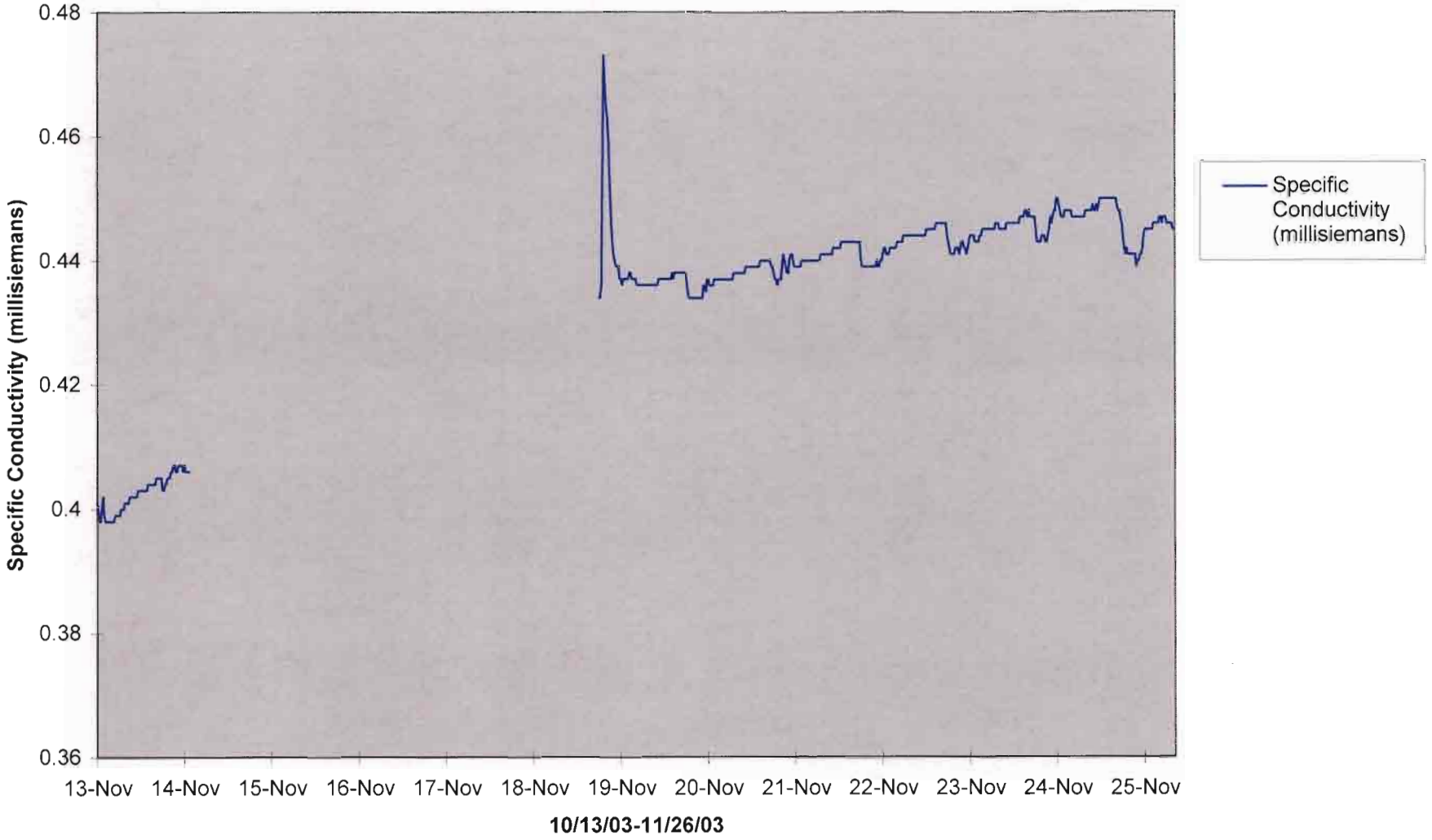
Graph 7.3A: FGCU Monitoring Station pH vs Time



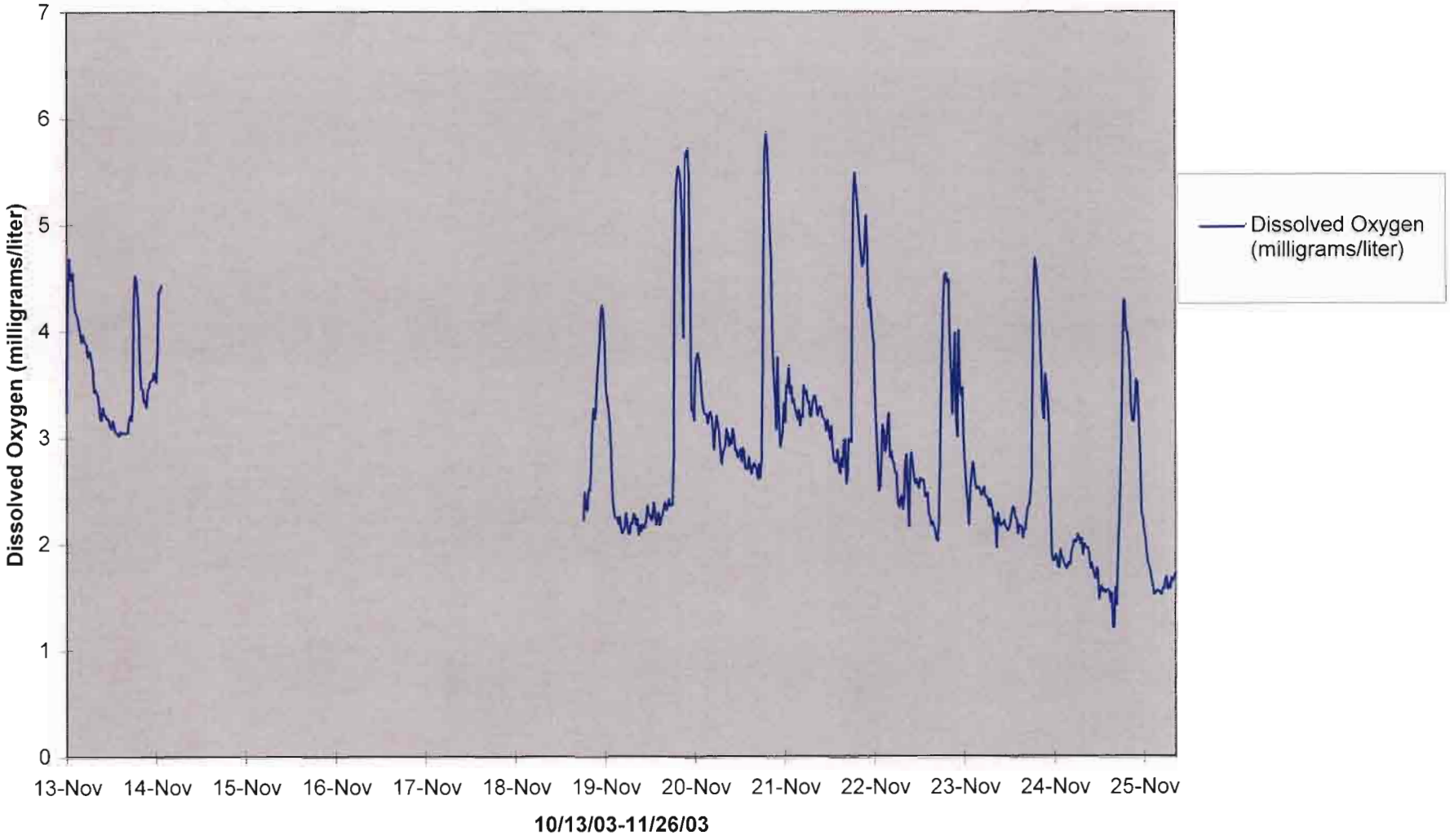
Graph 7.4A: FGCU Monitoring Station Water Temperature vs Time



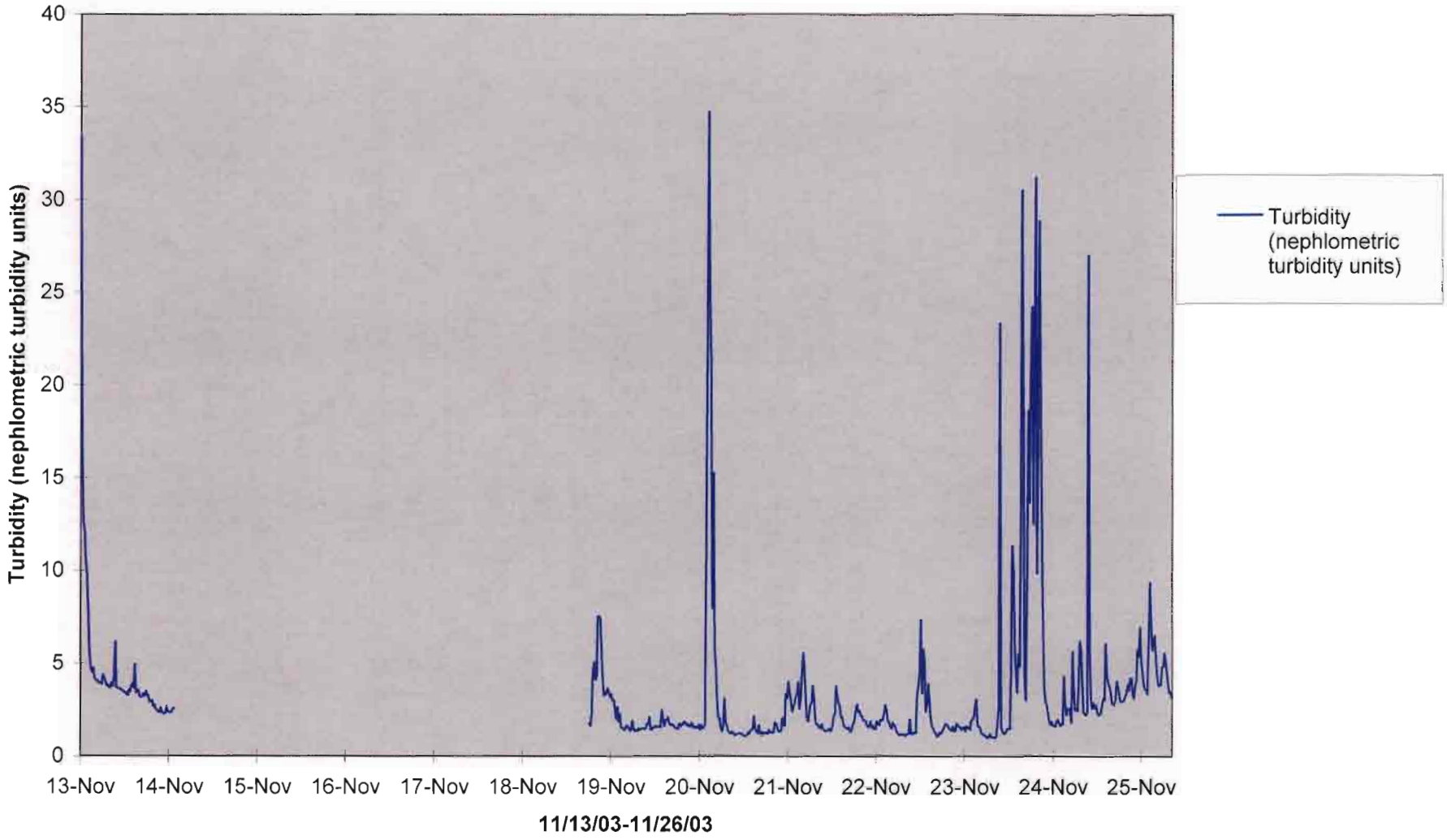
Graph 7.5A: FGCU Monitoring Station Specific Conductivity vs Time



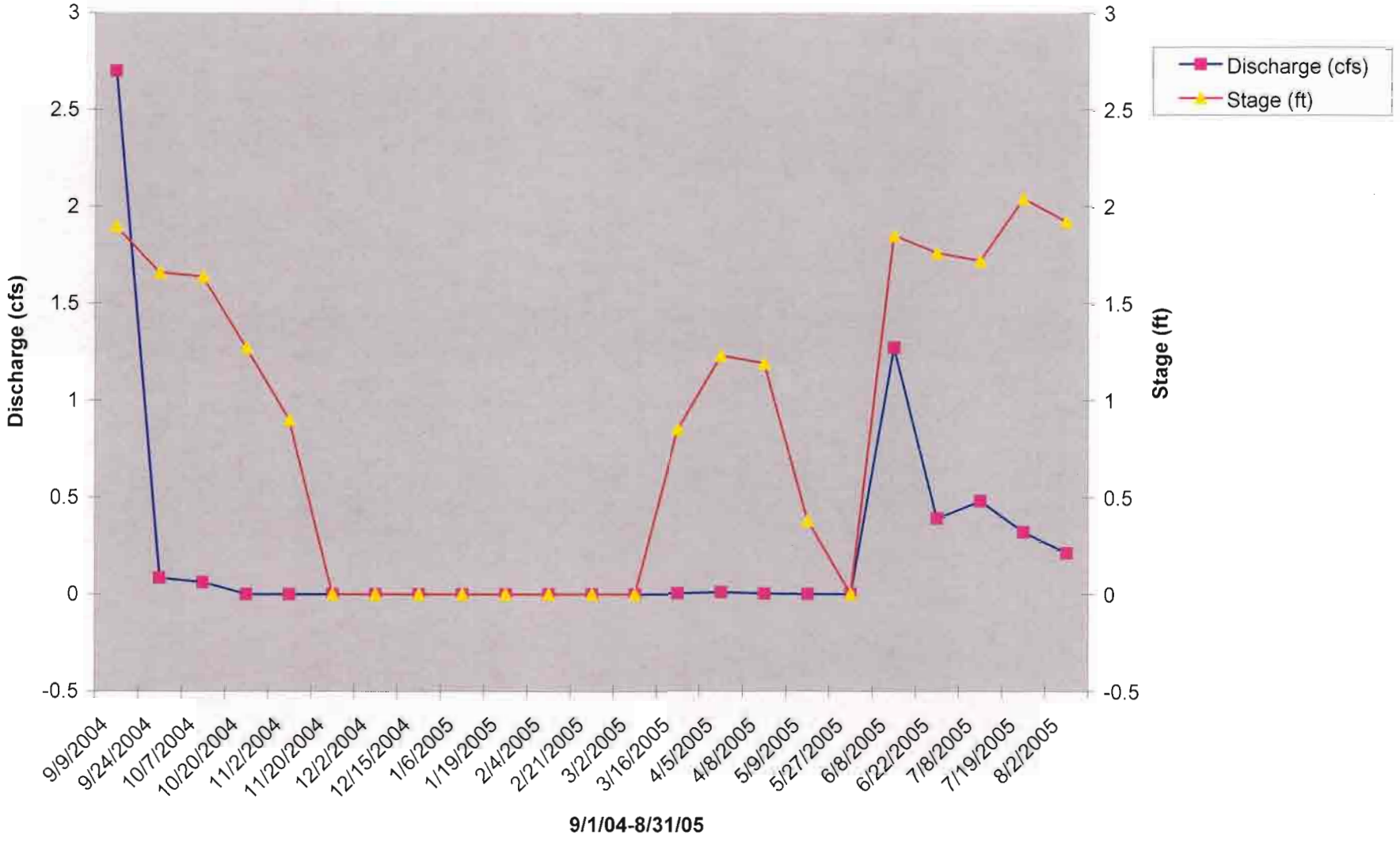
Graph 7.6A: FGCU Monitoring Station Dissolved Oxygen vs Time



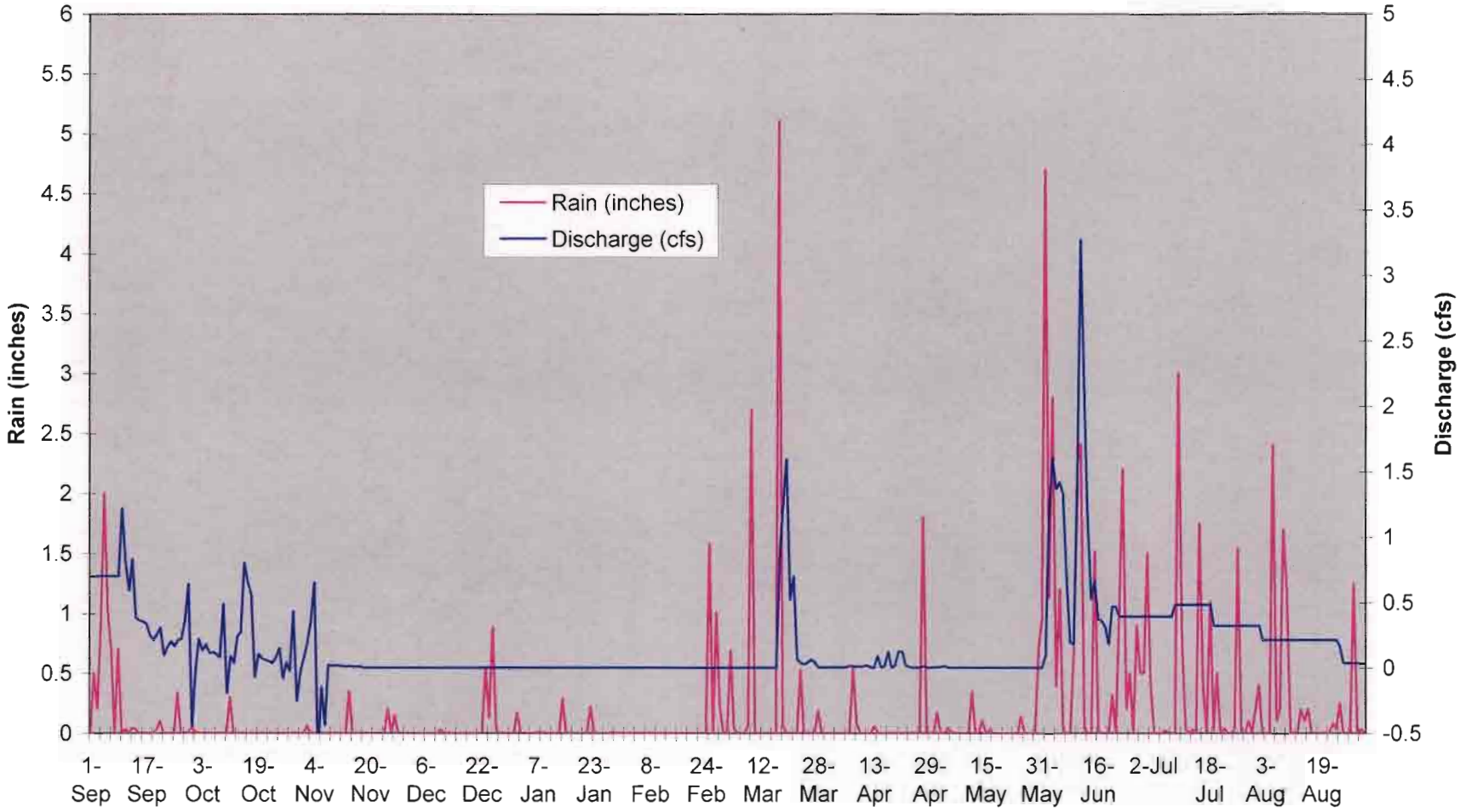
Graph 7.7A: FGCU Monitoring Station Turbidity vs Time



Graph 7.1B: FGCU Monitoring Station Discharge (ADV)\Stage vs Time

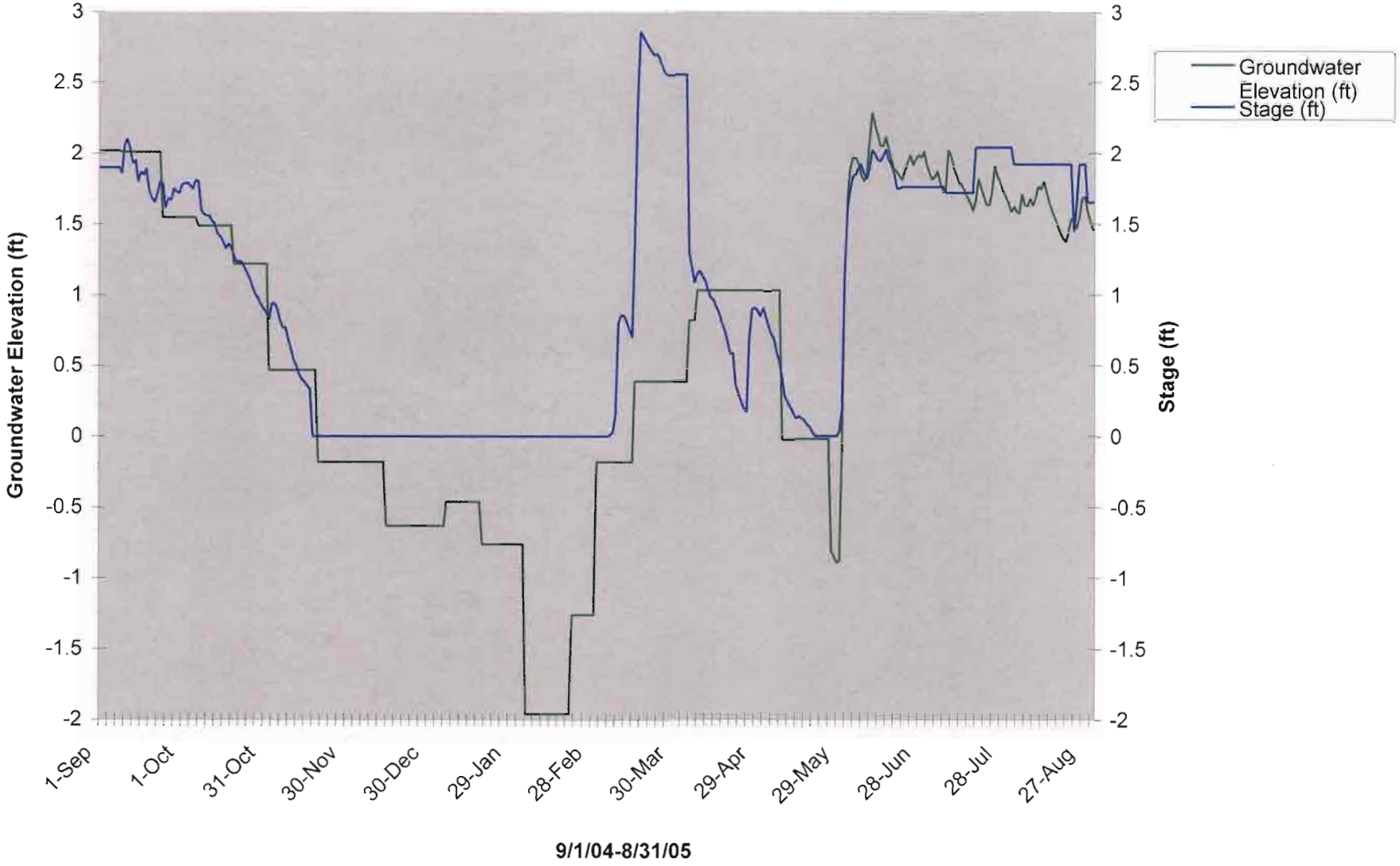


Graph 7.2B: FGCU Monitoring Station Rain\ Discharge vs Time

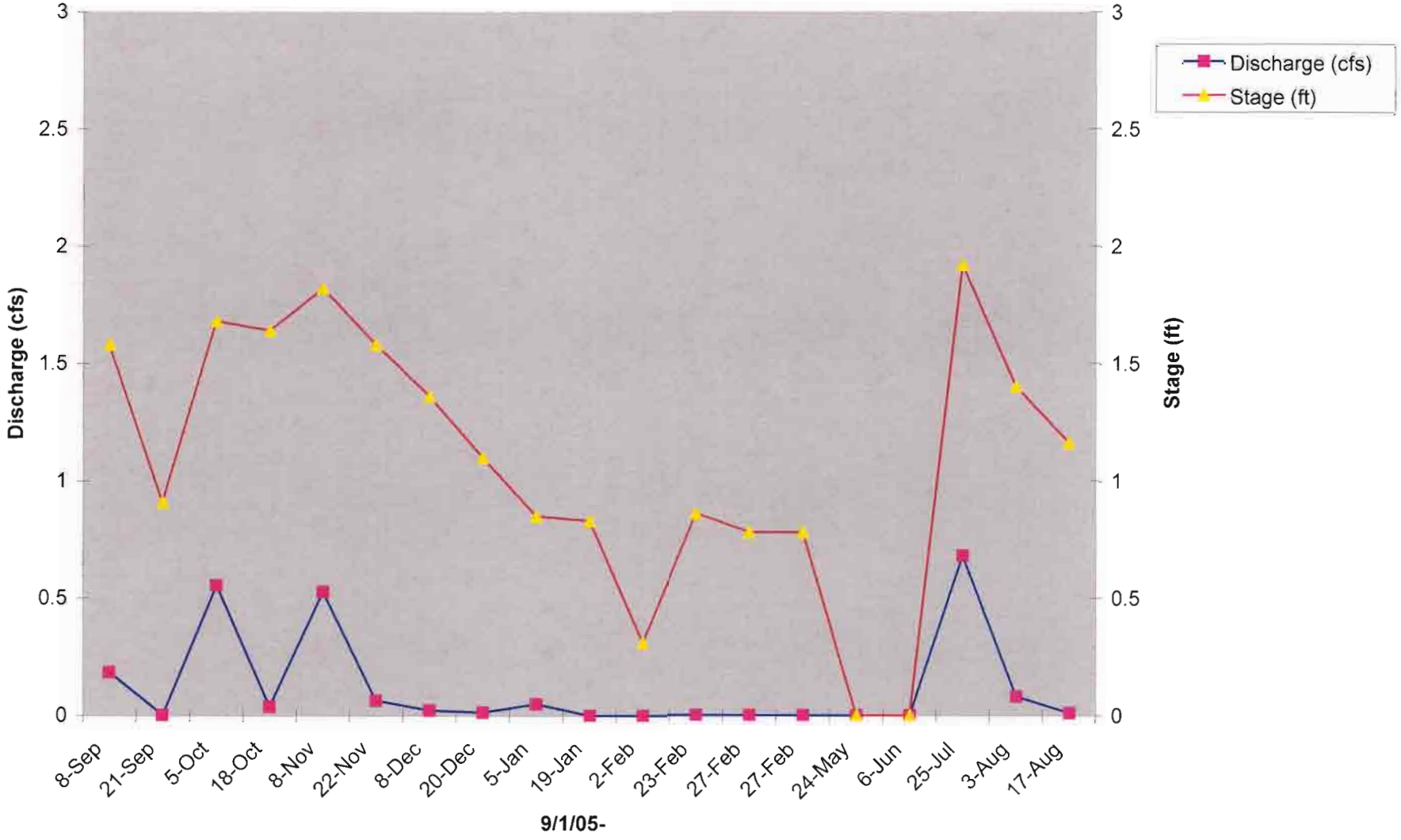


9/1/04-8/31/05

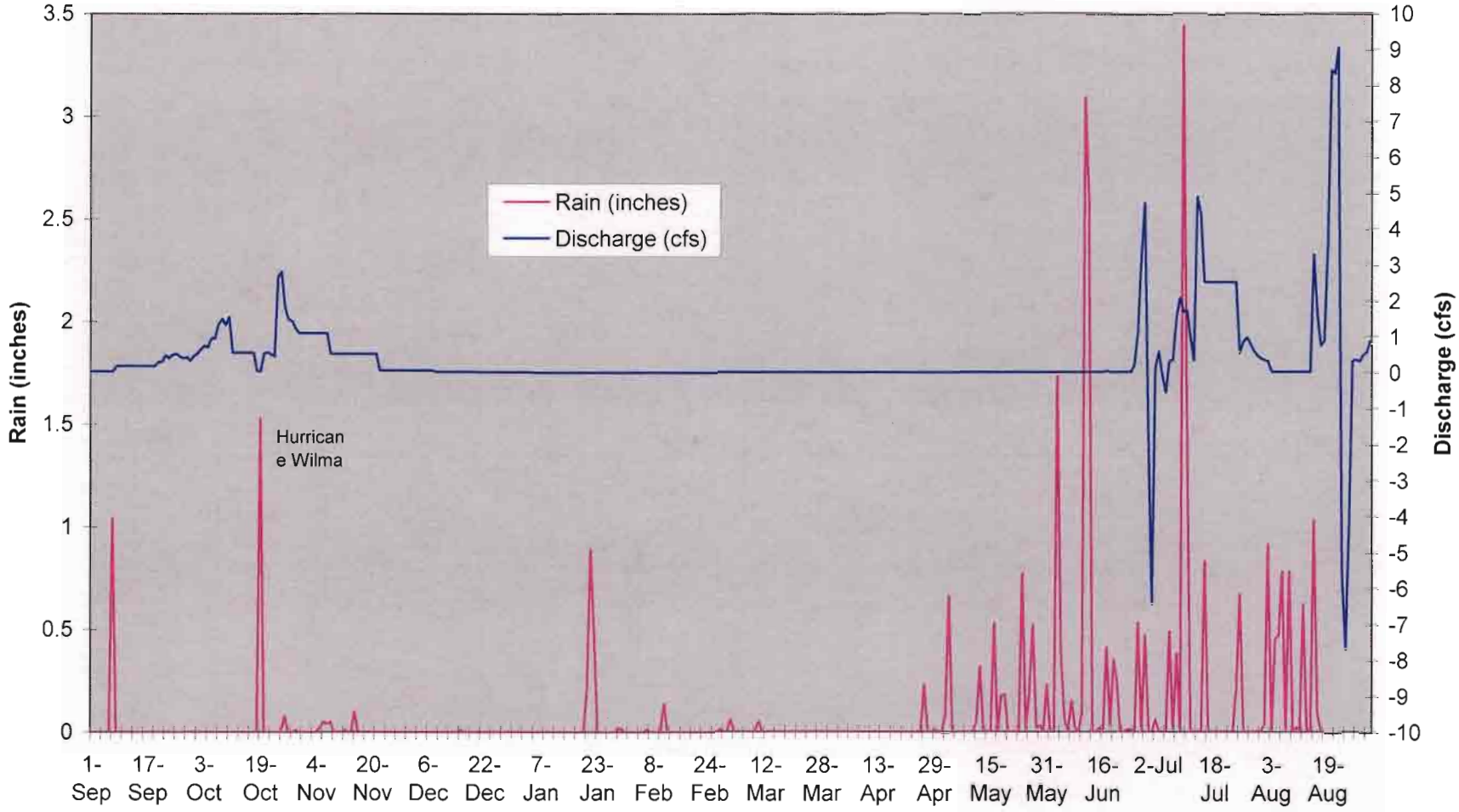
Graph 7.3B: FGCU Monitoring Station Groundwater Elevation\Stage vs Time



Graph 7.1C: FGCU Monitoring Station Discharge (ADV)\Stage vs Time

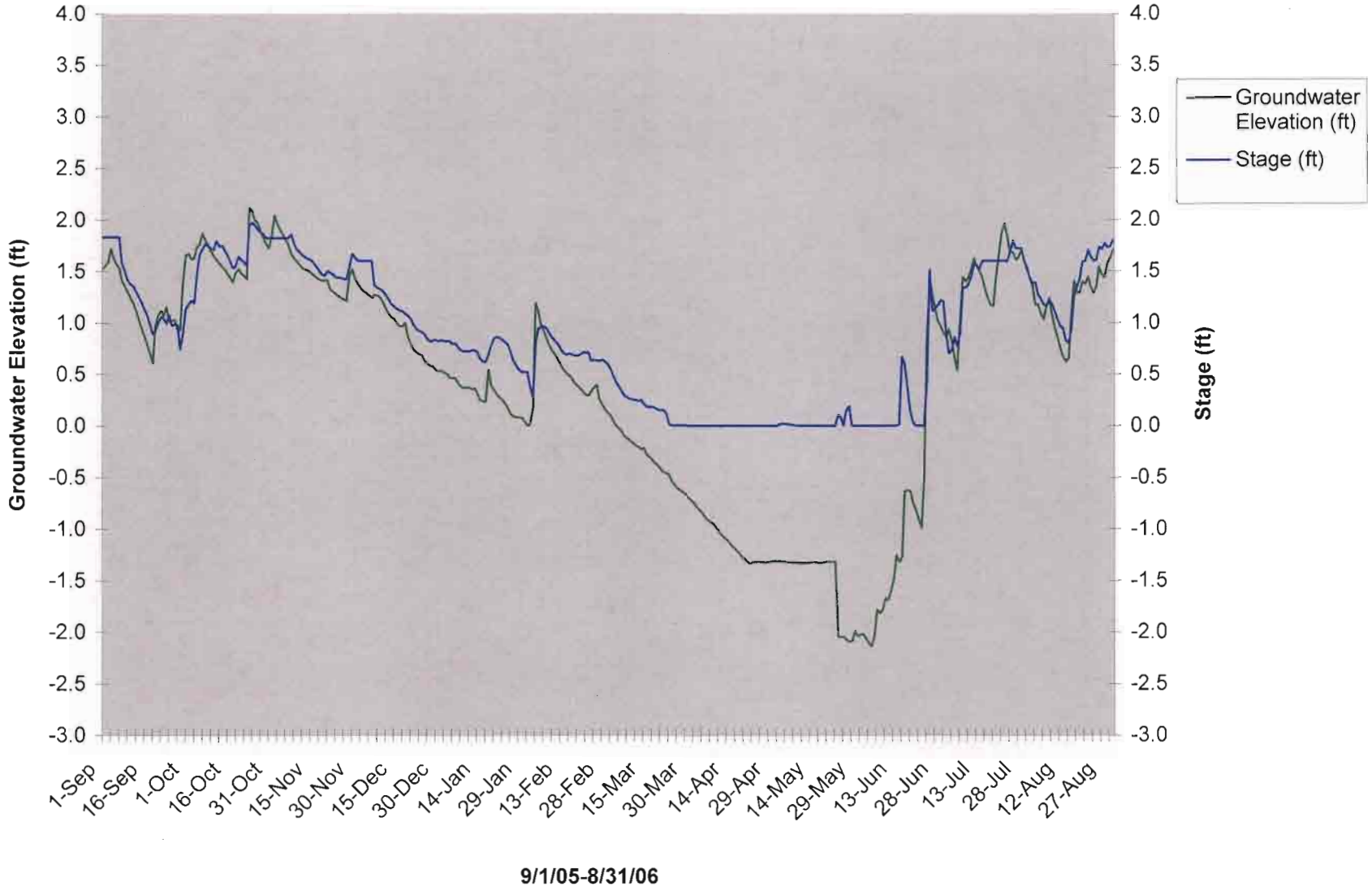


Graph 7.2C: FGCU Monitoring Station Rain\ Discharge vs Time



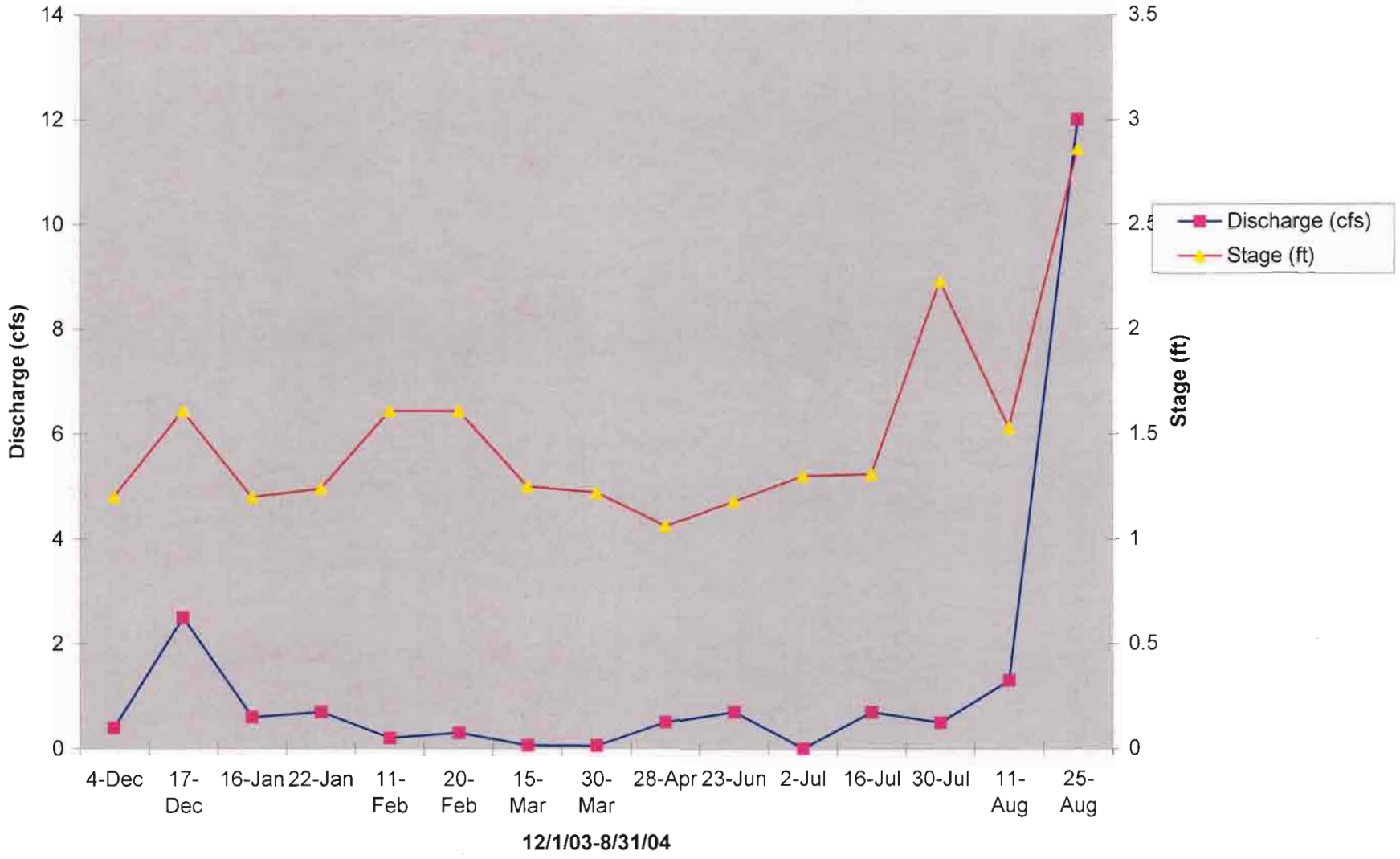
9/1/05-8/31/06

Graph 7.3C: FGCU Monitoring Station Groundwater Elevation\Stage vs Time

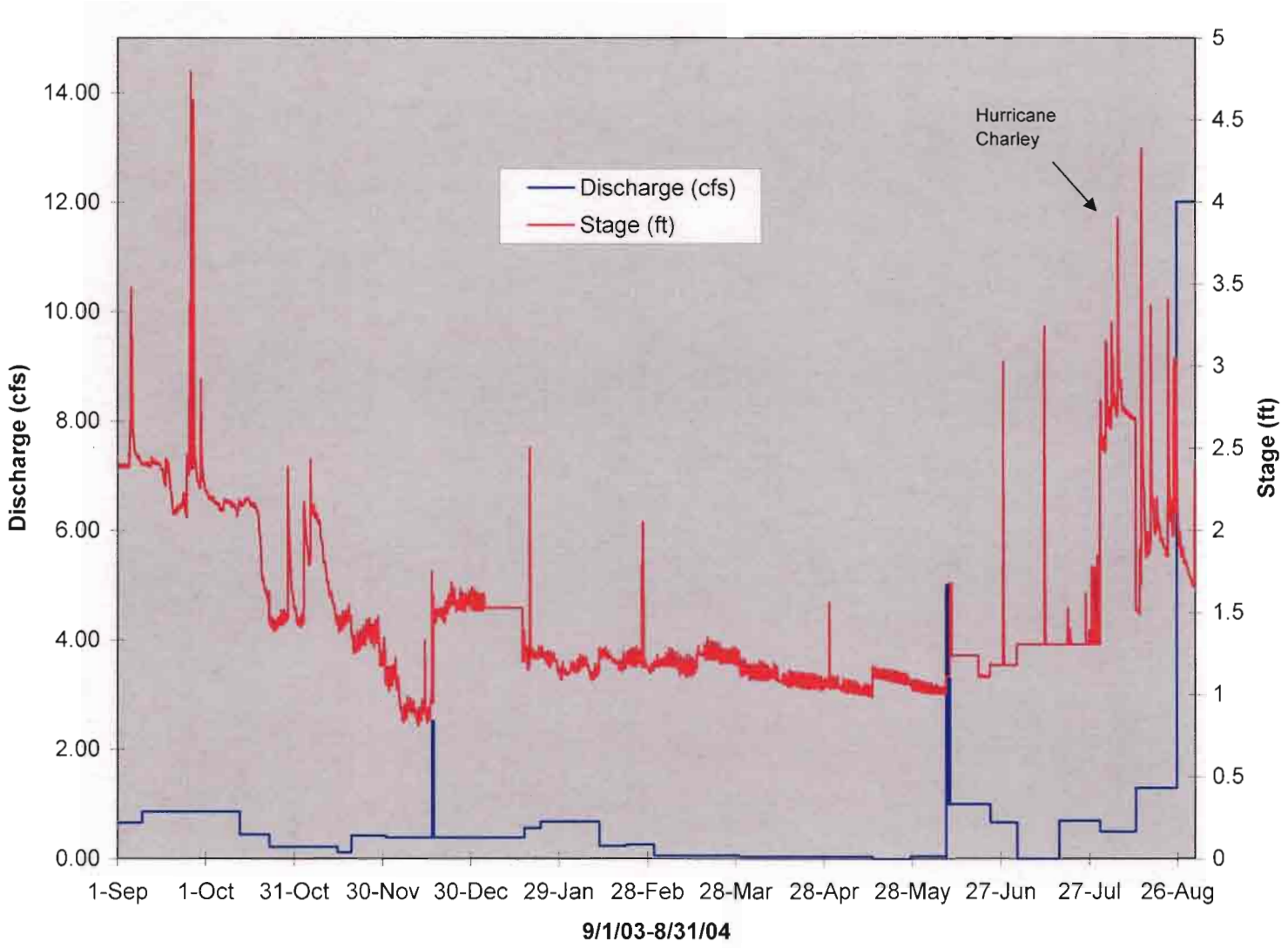


A.8 GALEANA STREET GRAPHS

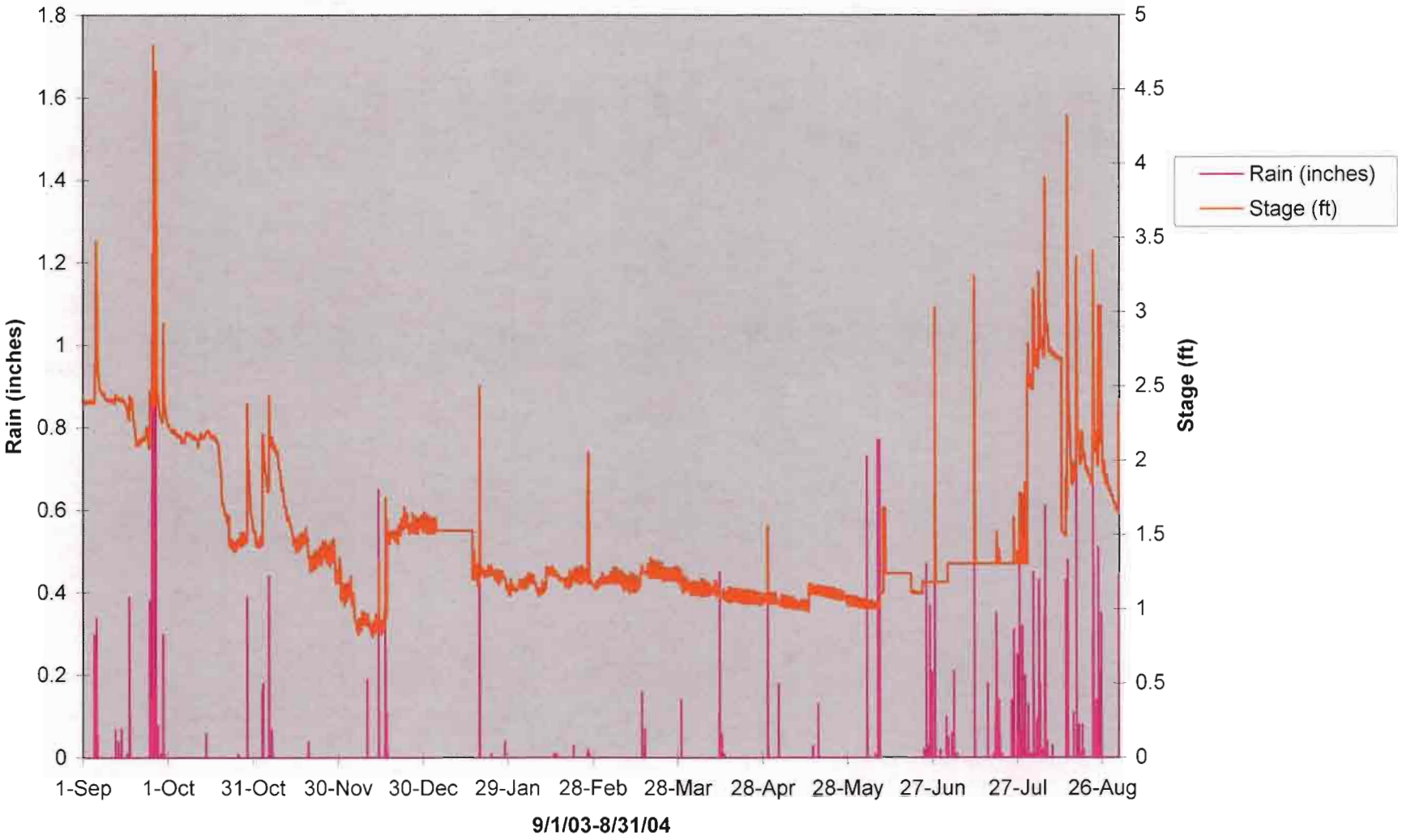
Graph 8.1A: Galeana Street Monitoring Station Discharge(ADV)\Stage vs Time



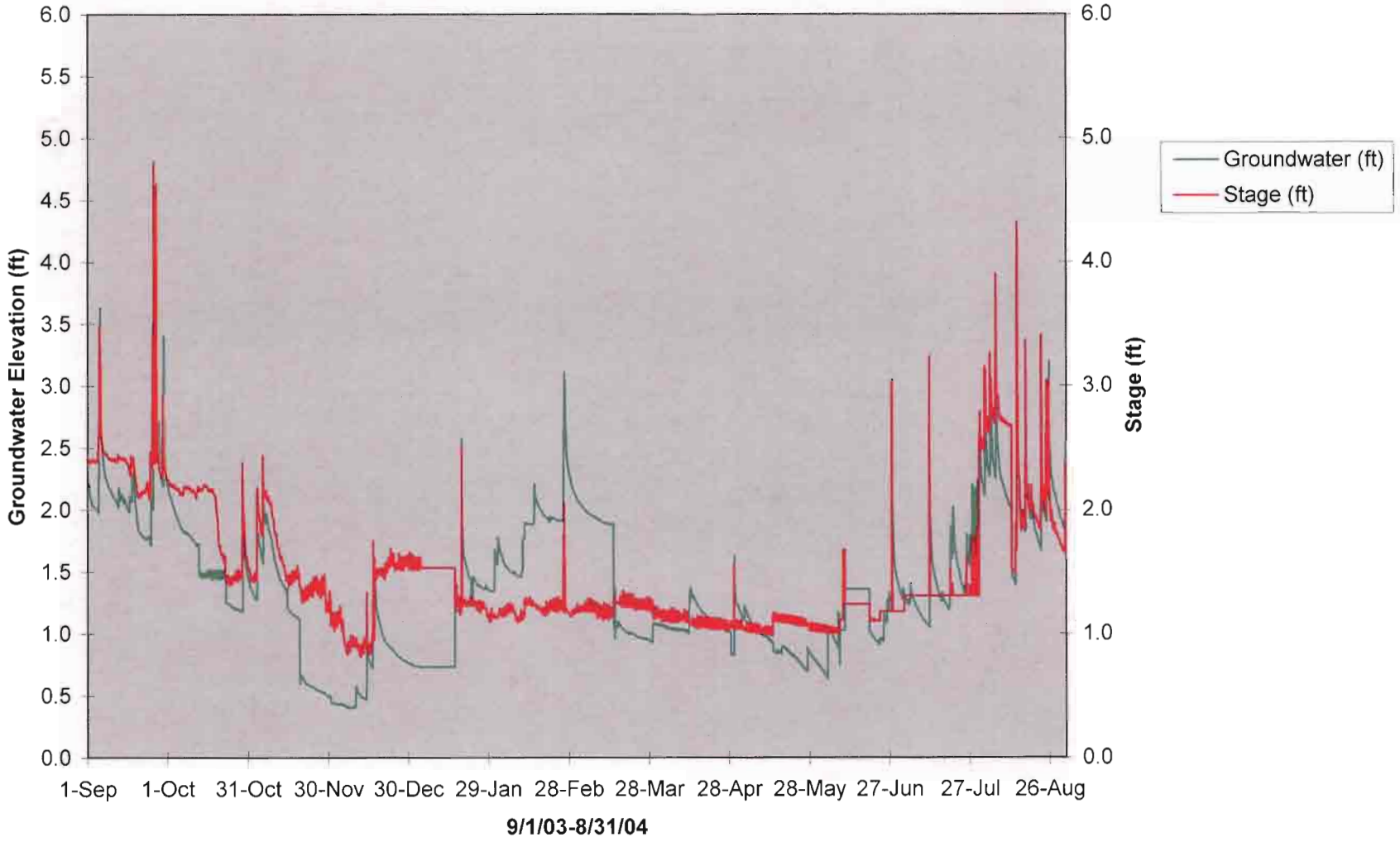
Graph 8.2A: Galeana Street Monitoring Station Discharge\Stage vs Time



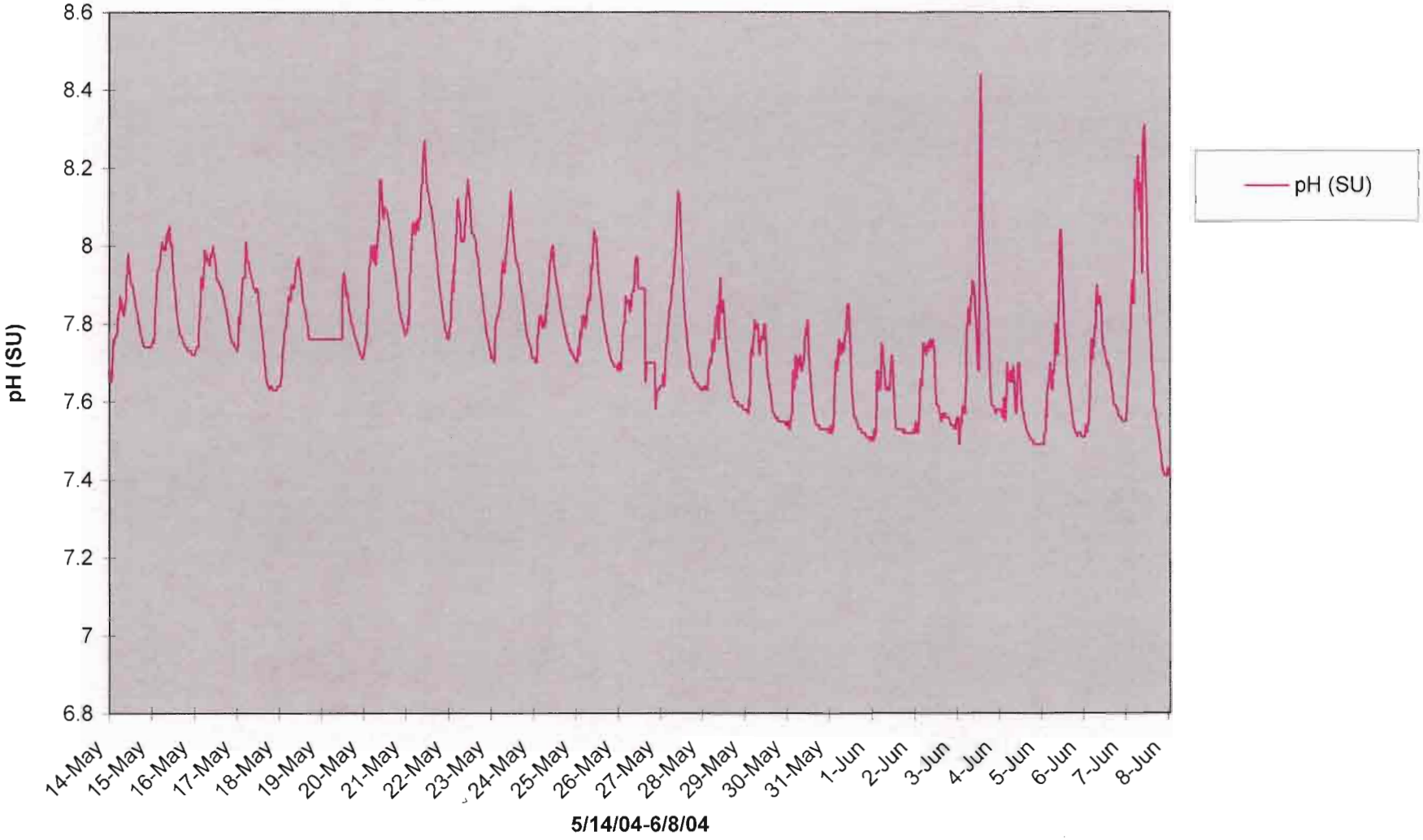
Graph 8.3A: Galeana Street Monitoring Station Rain\Stage vs Time



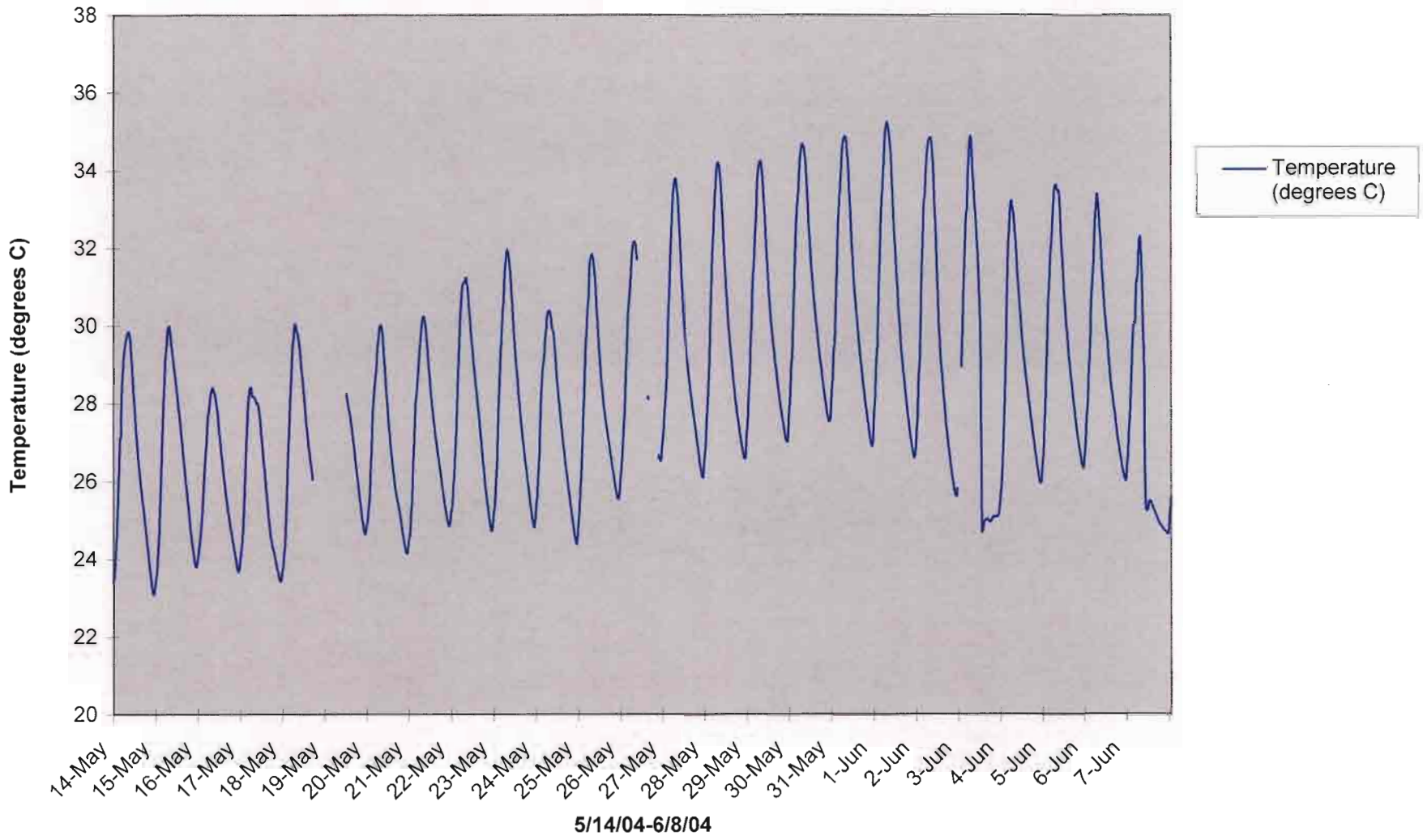
Graph 8.4A: Galeana Street Monitoring Station Groundwater Elevation\Stage vs.Time



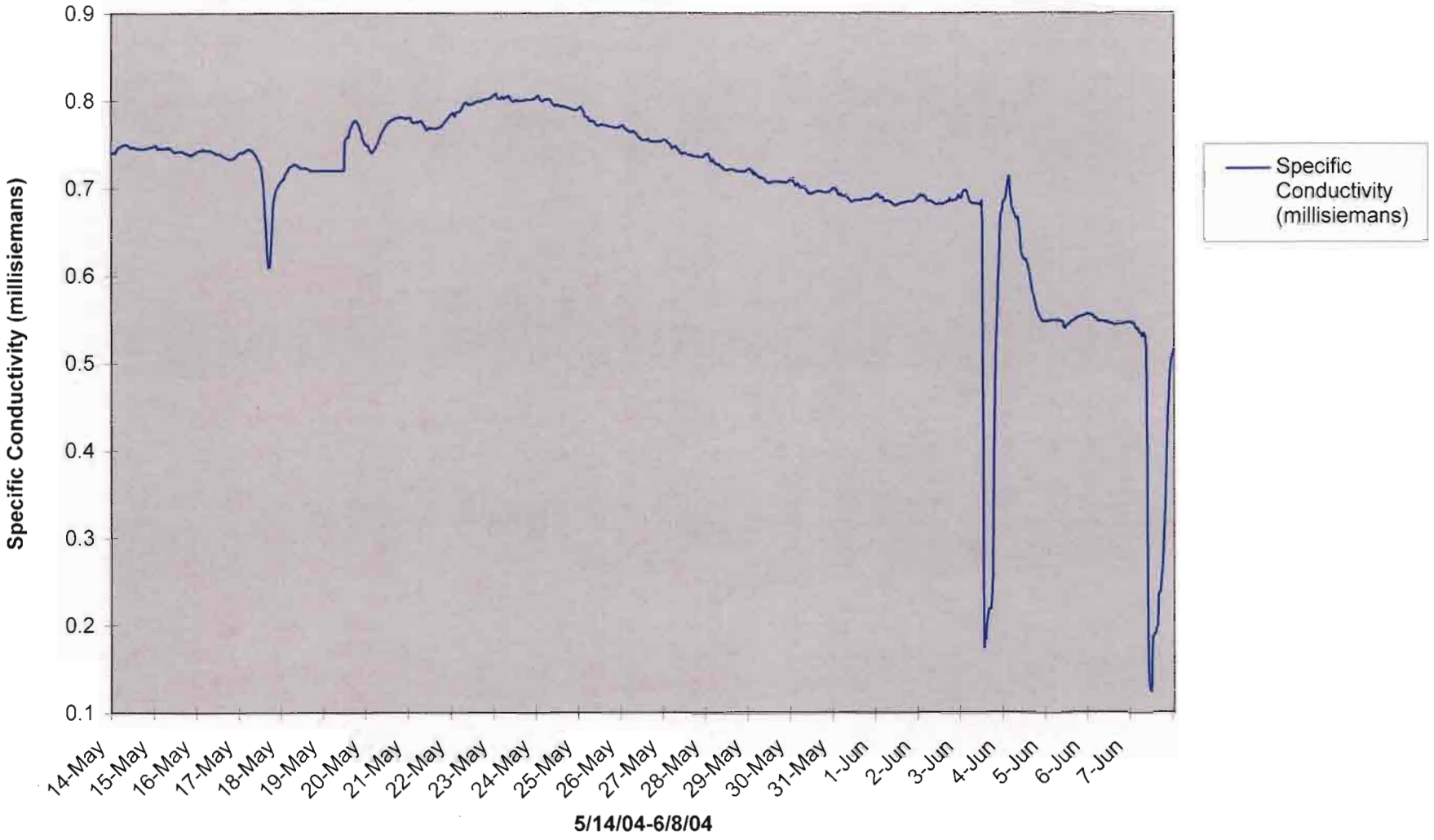
Graph 8.5A: Galeana Street Monitoring Station pH vs Time



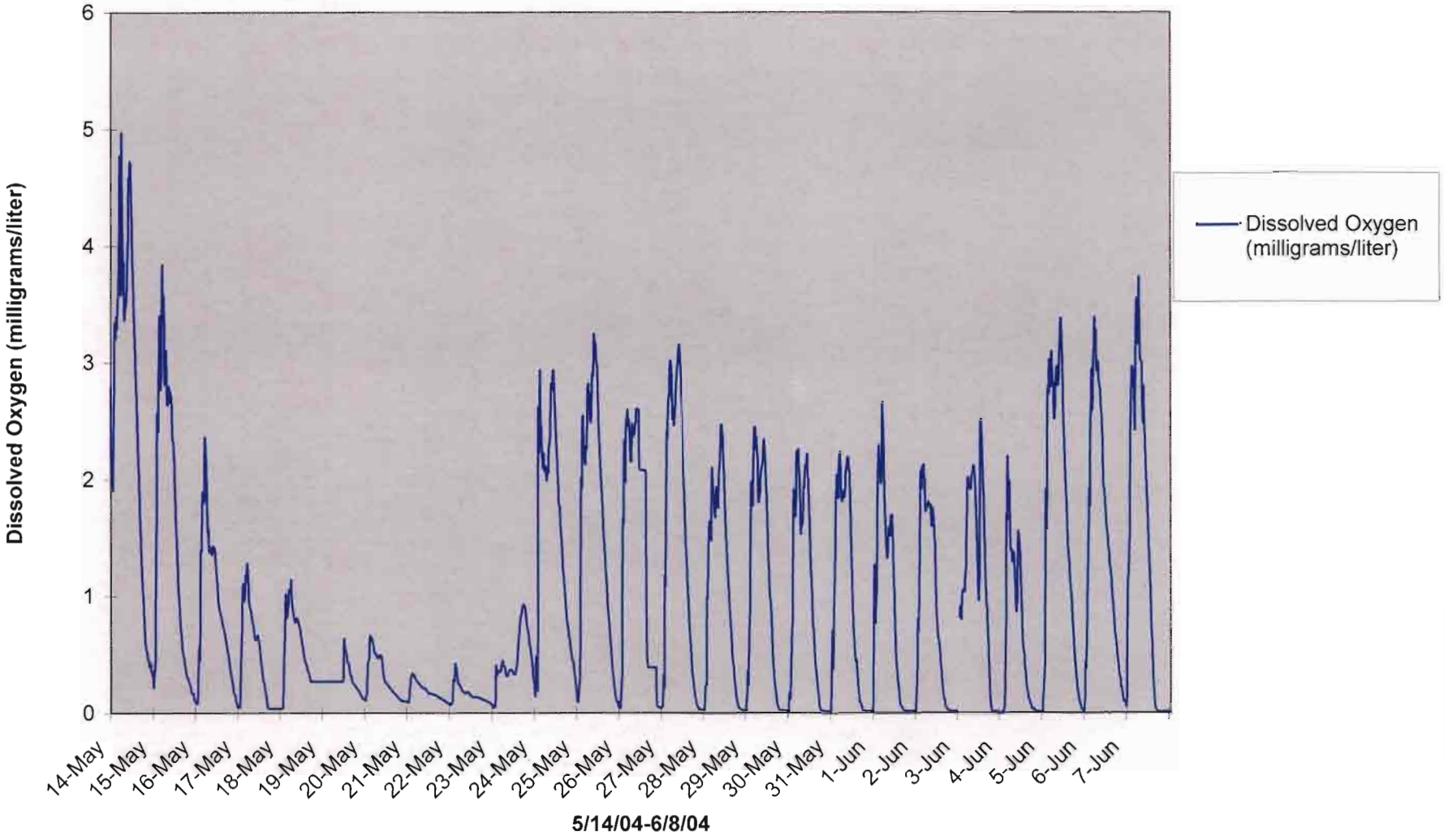
Graph 8.6A: Galeana Street Monitoring Station Water Temperature vs Time



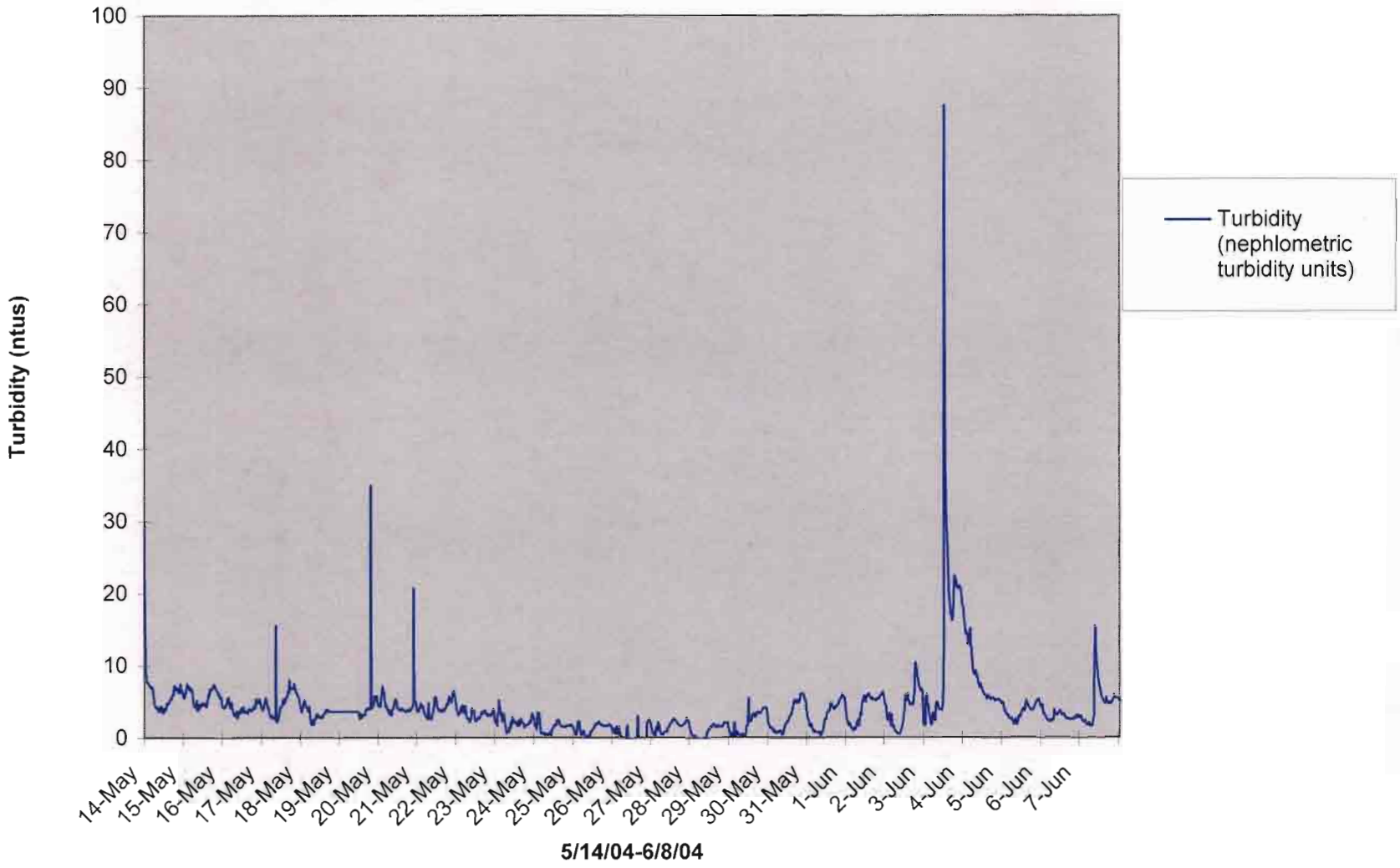
Graph 8.7A: Galeana Street Monitoring Station Specific Conductivity vs Time



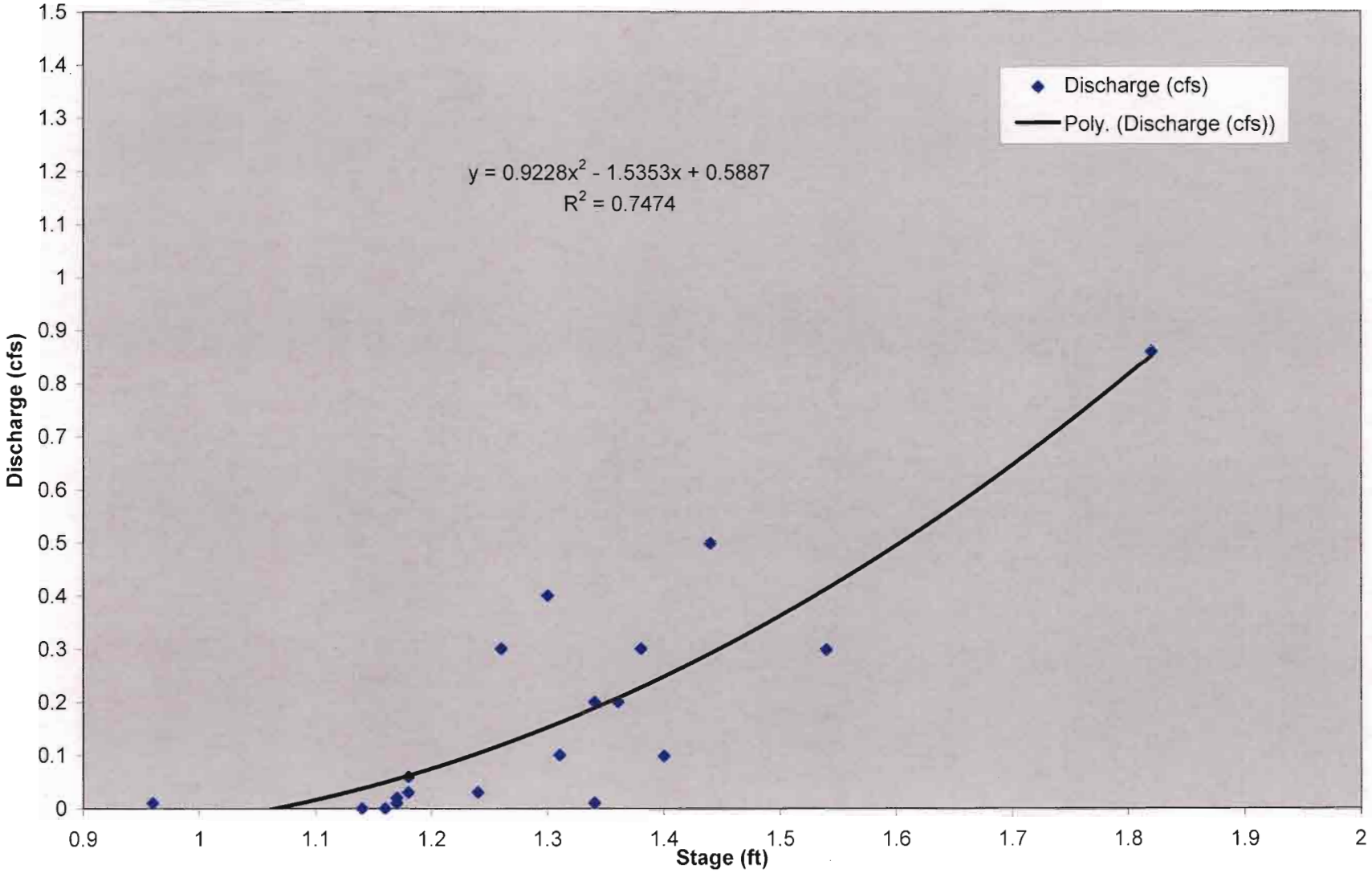
Graph 8.8A: Galeana Street Monitoring Station Dissolved Oxygen vs Time



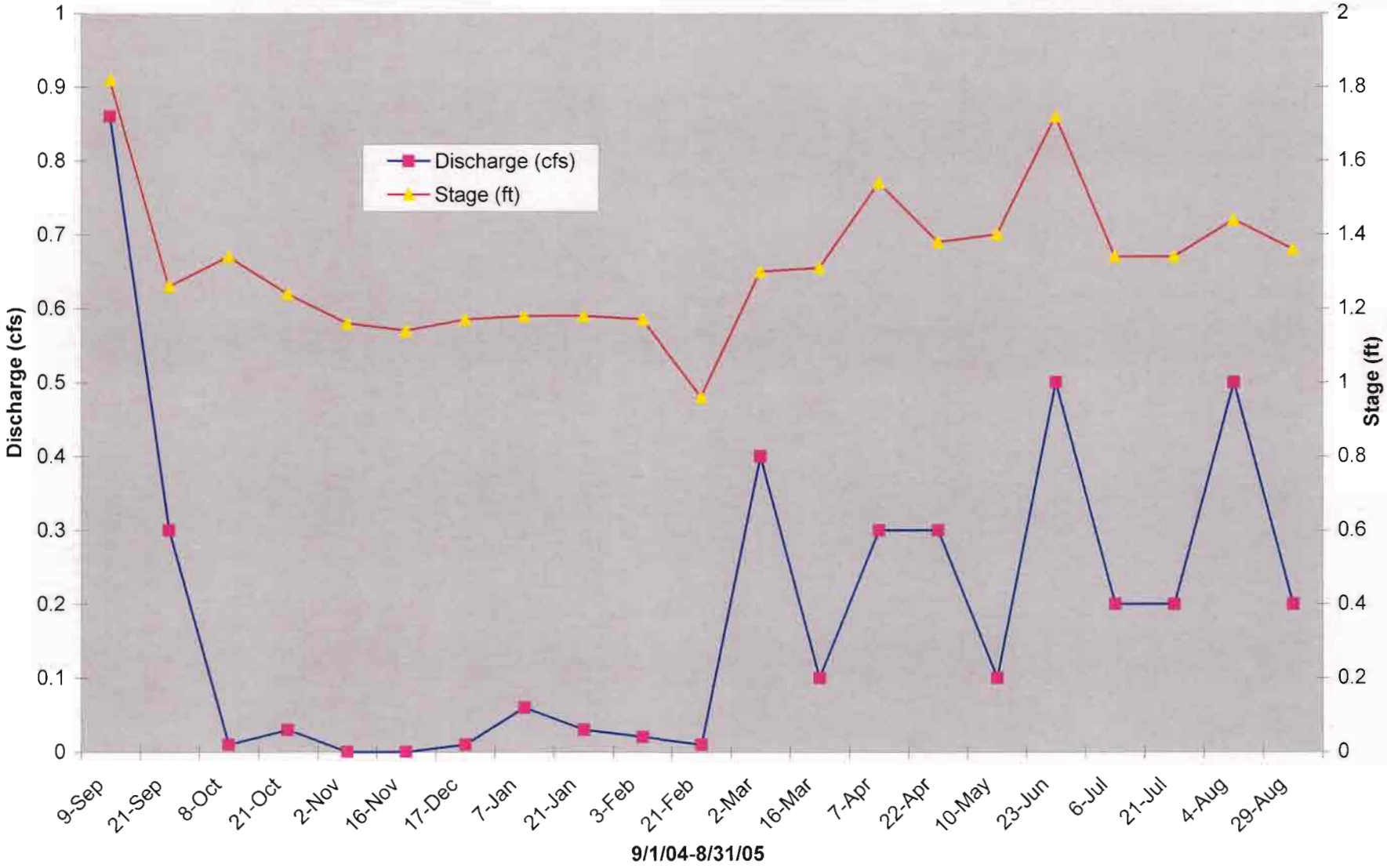
Graph 8.9A: Galeana Street Monitoring Station Turbidity vs Time



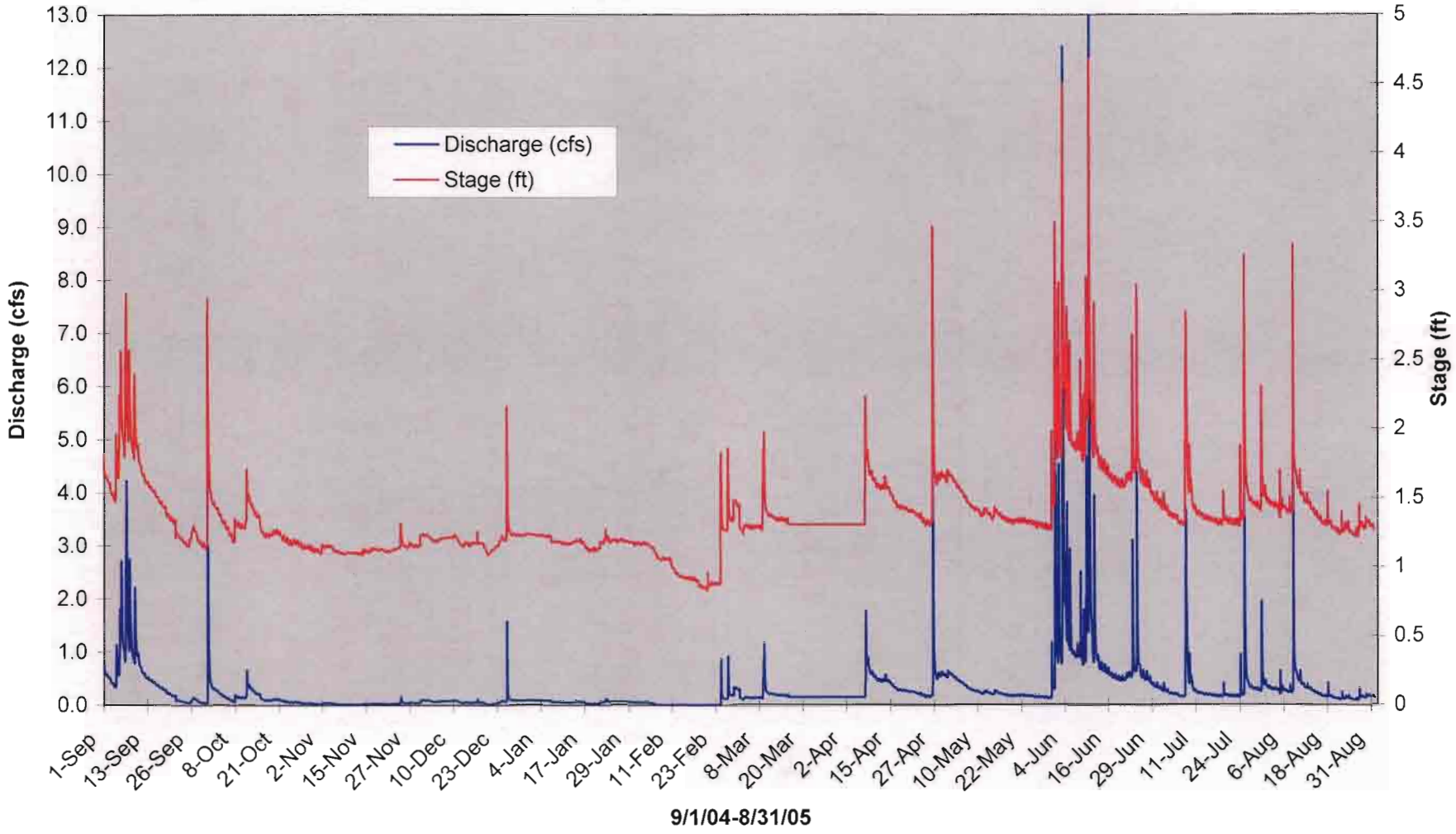
Graph 8.1B: Galeana Street Monitoring Station Discharge vs Stage Calibration Curve 2004-2005



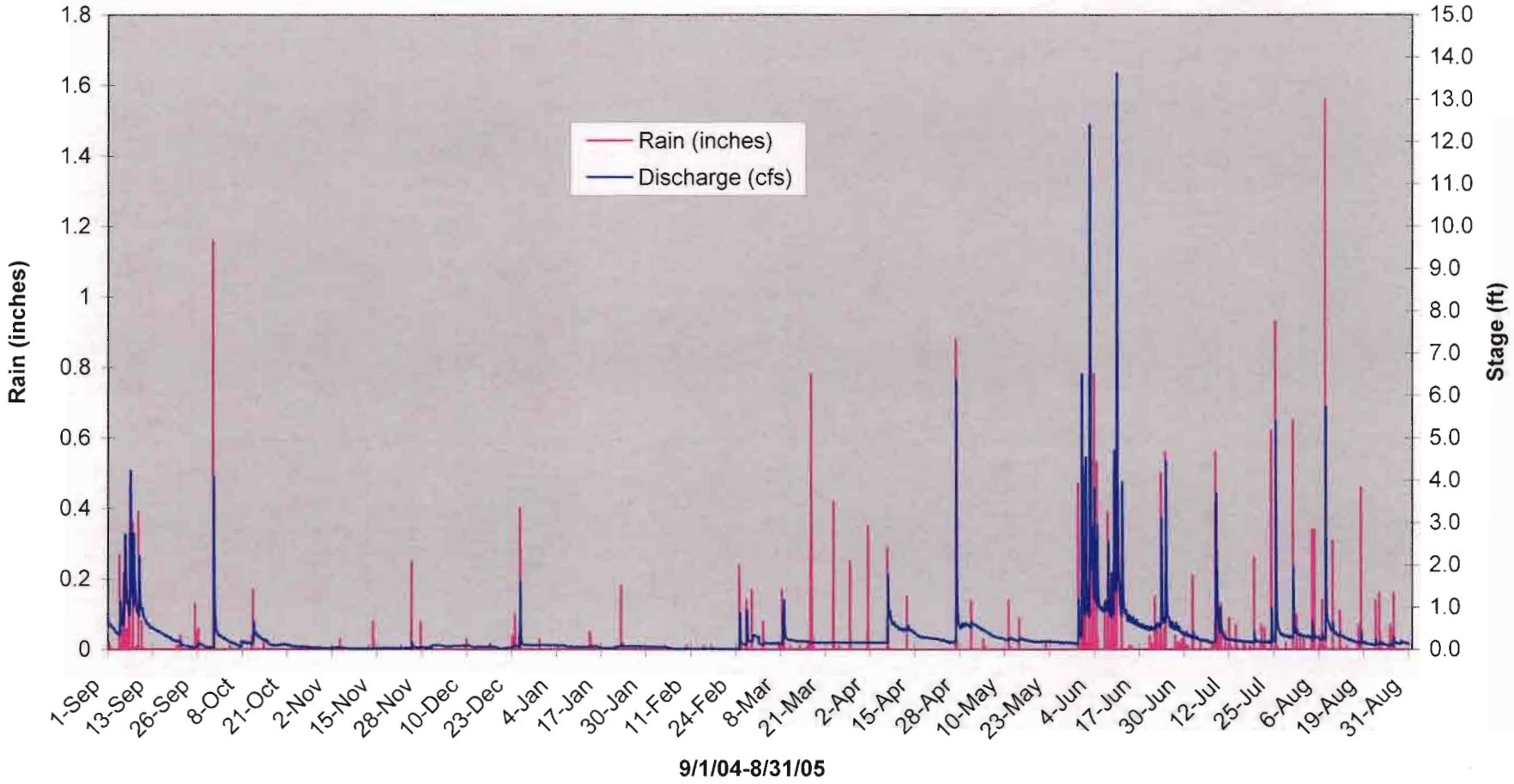
Graph 8.2B: Galeana Street Monitoring Station Discharge(ADV)\Stage vs Time



Graph 8.3B: Galeana Street Monitoring Station Discharge\Stage vs Time

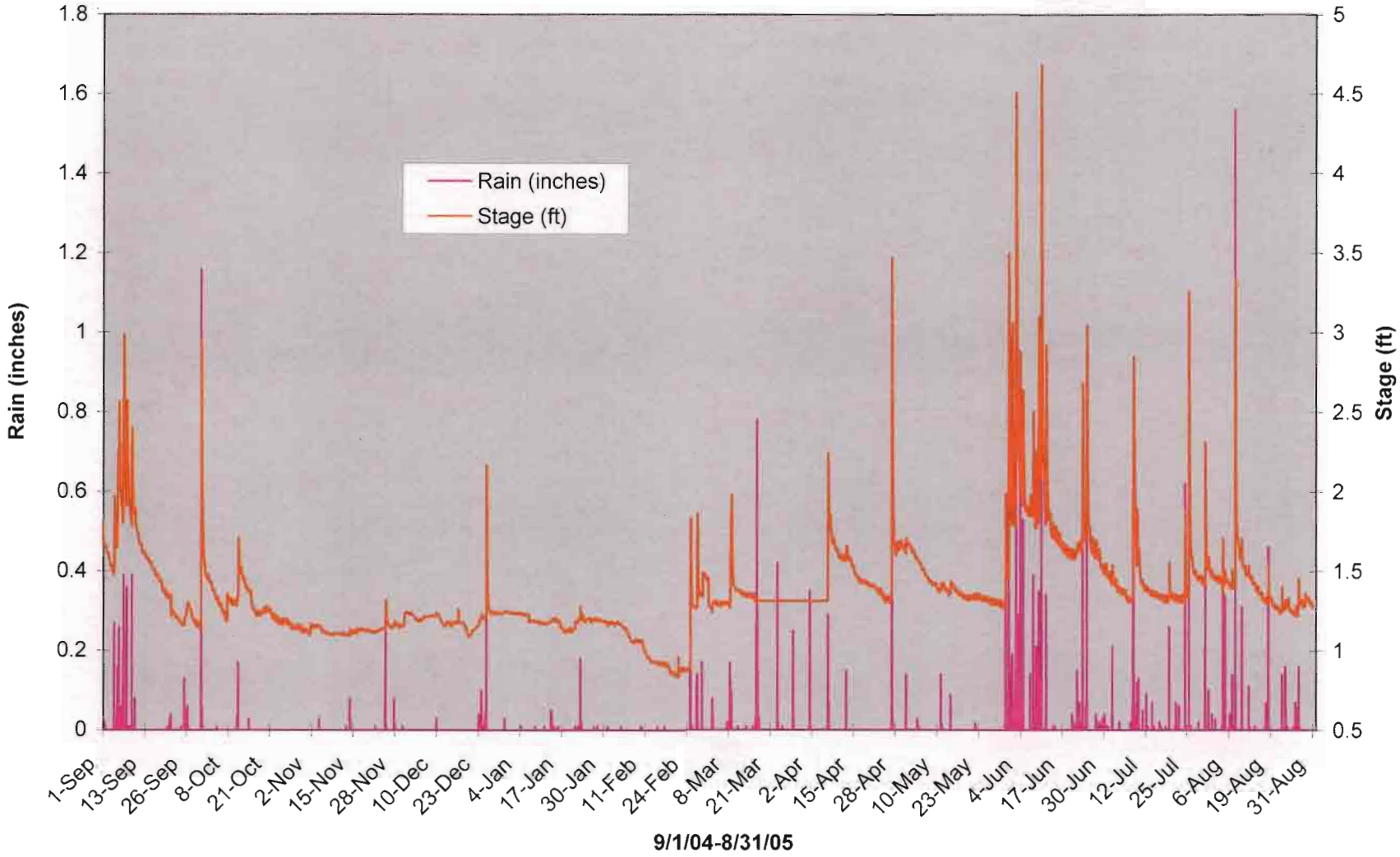


Graph 8.4B: Galeana Street Monitoring Station Rain\Discharge vs Time

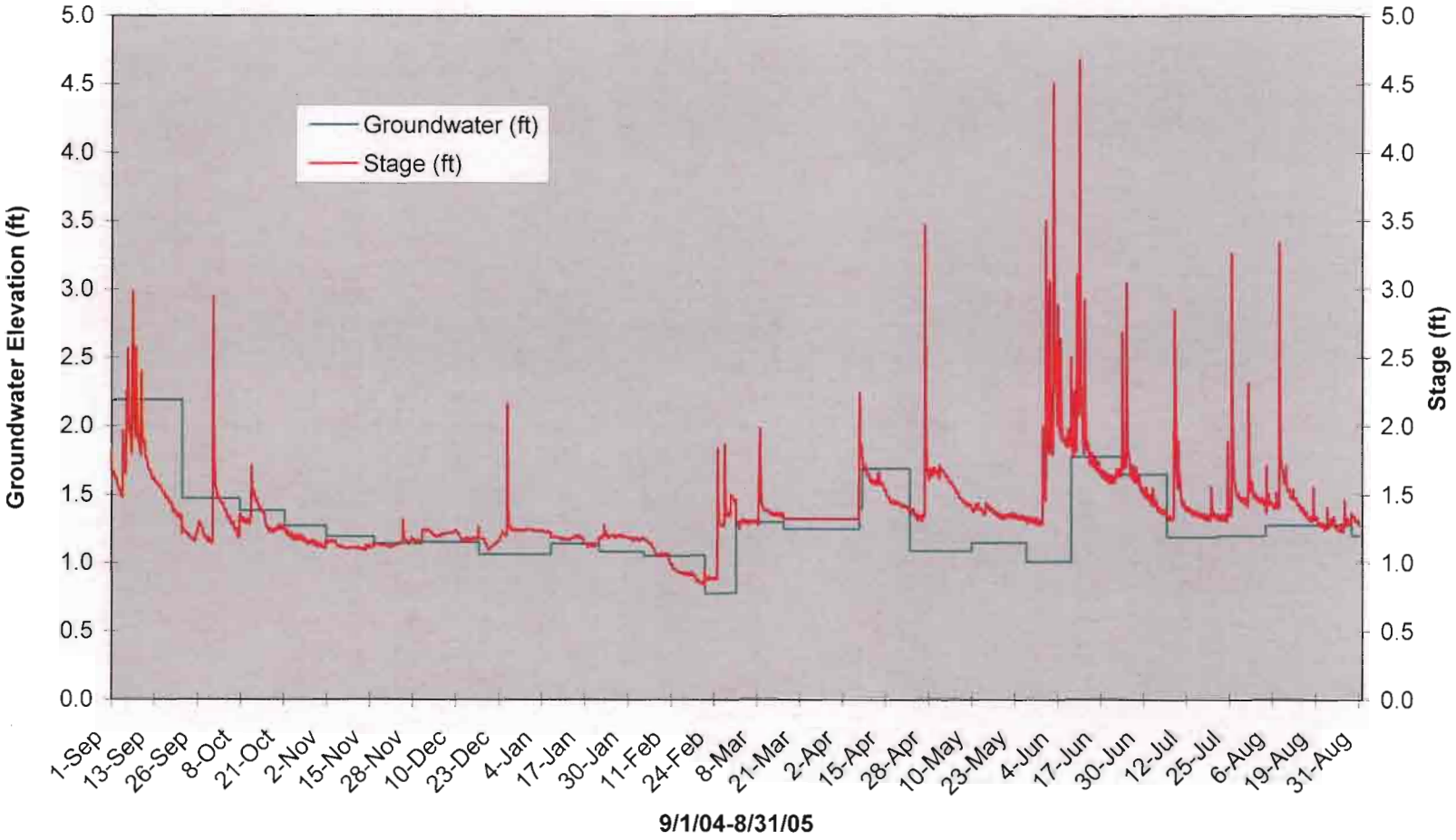


9/1/04-8/31/05

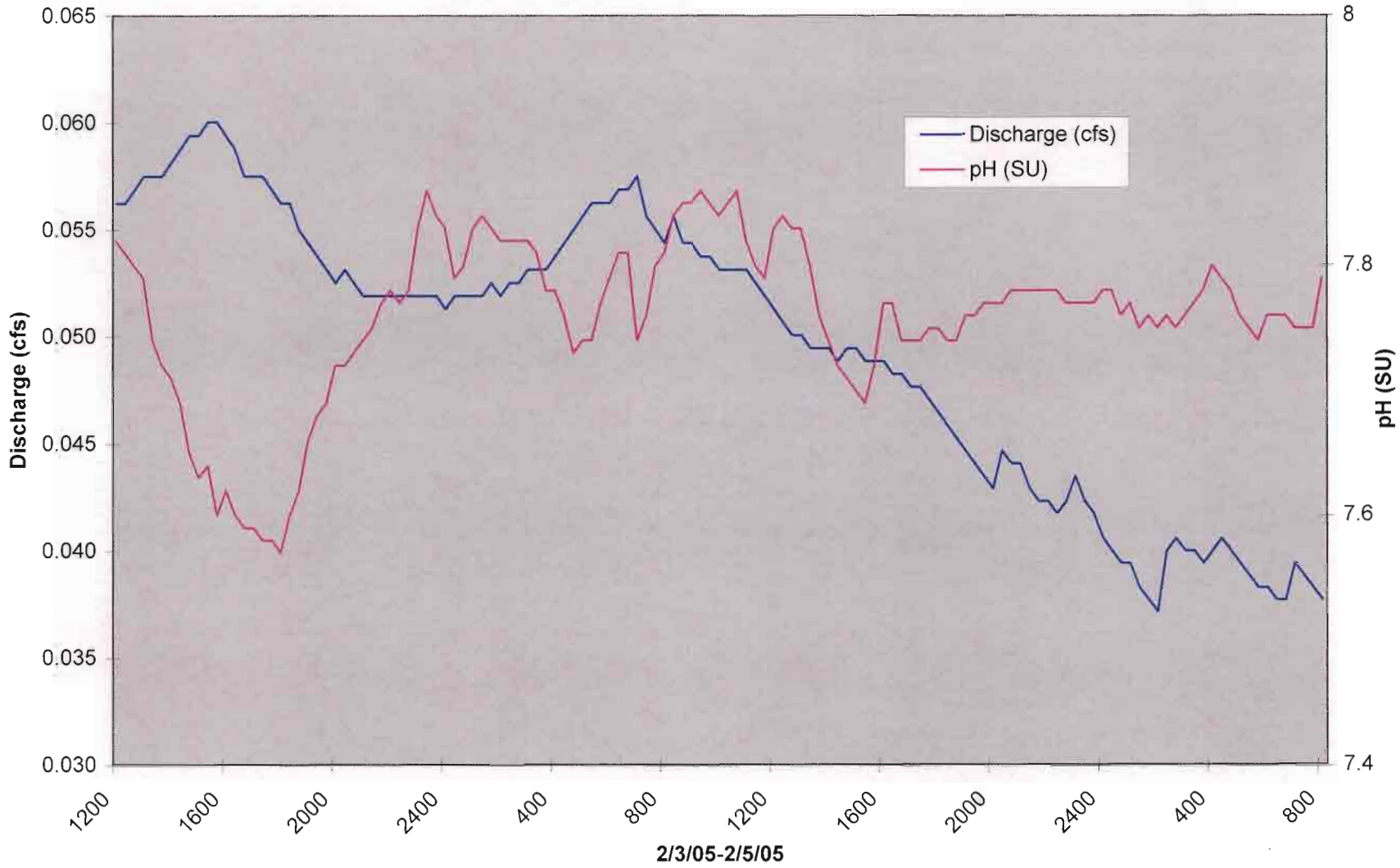
Graph 8.5B: Galeana Street Monitoring Station Rain\Stage vs Time



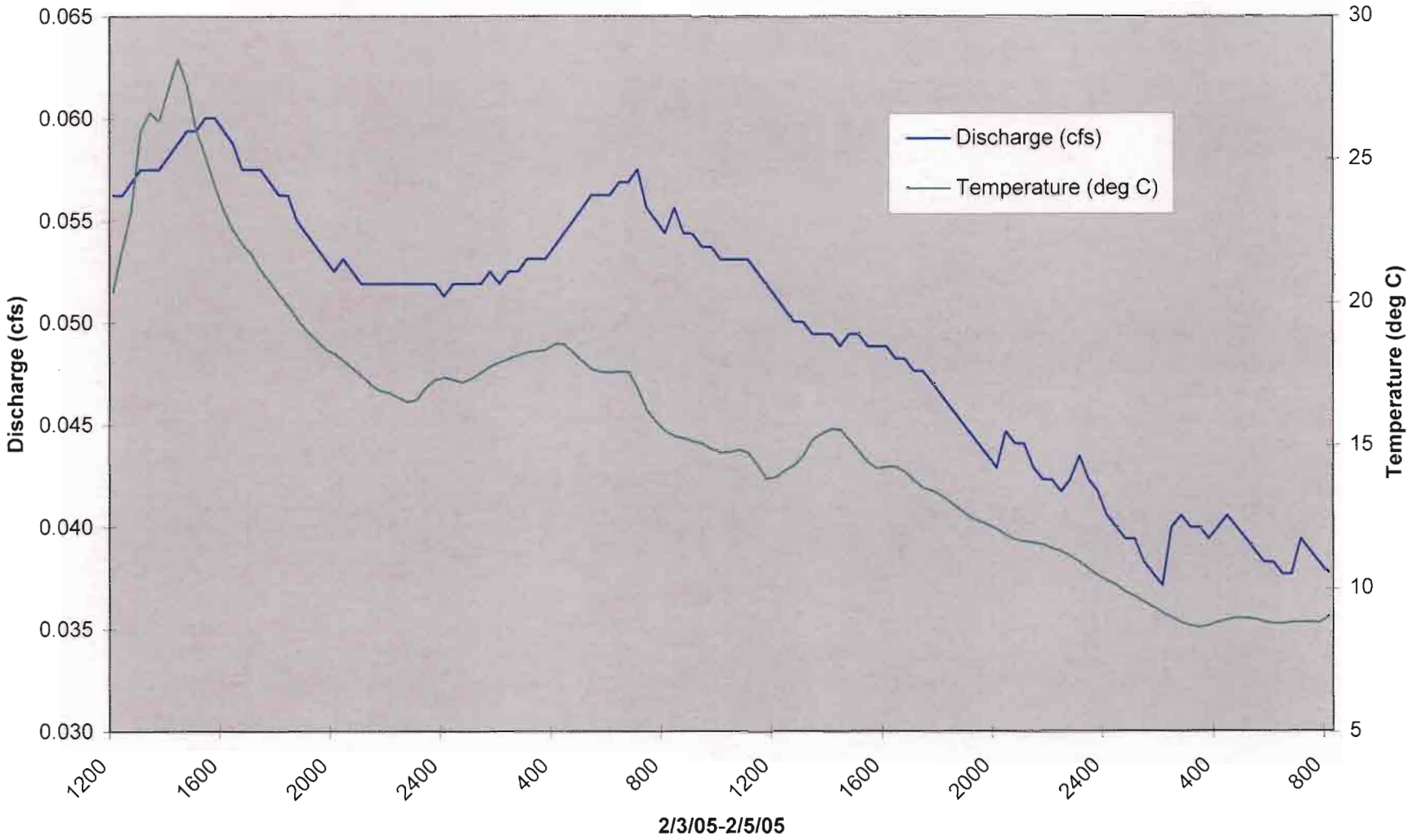
Graph 8.6B: Galeana Street Monitoring Station Groundwater Elevation\Stage vs.Time



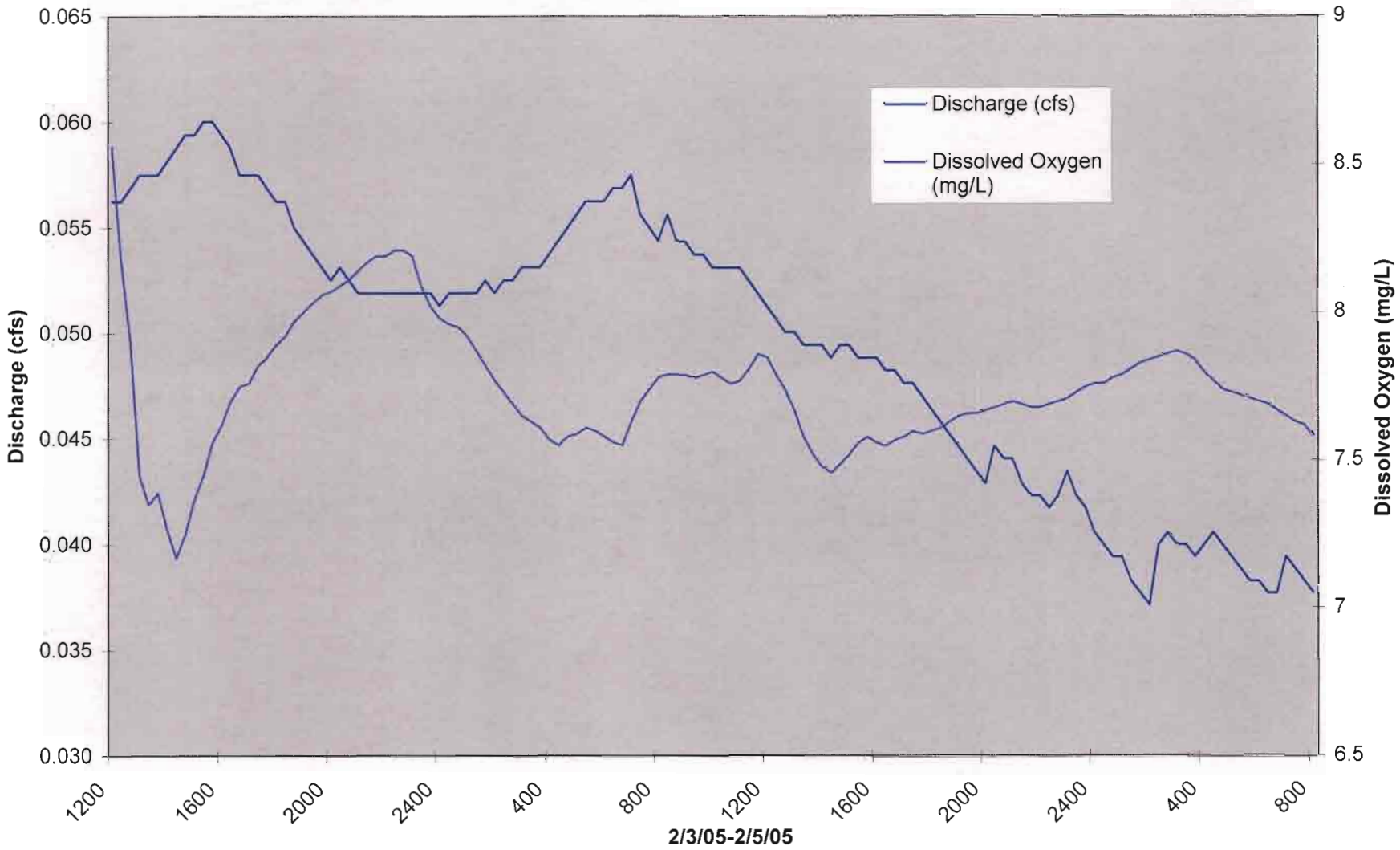
Graph 8.7B: Galeana Street Monitoring Station Discharge\pH vs Time



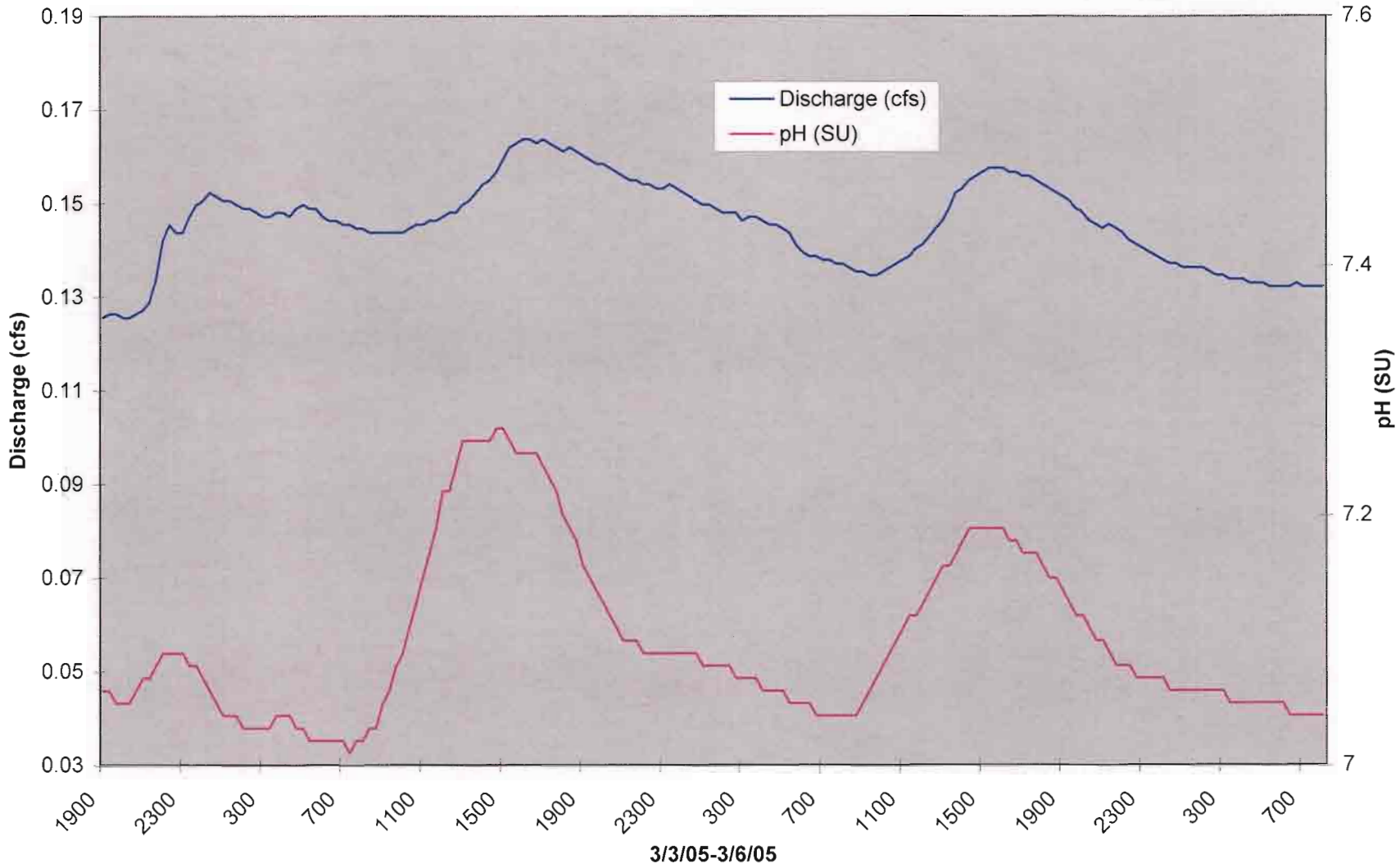
Graph 8.8B: Galeana Street Monitoring Station Discharge\Temperature vs Time



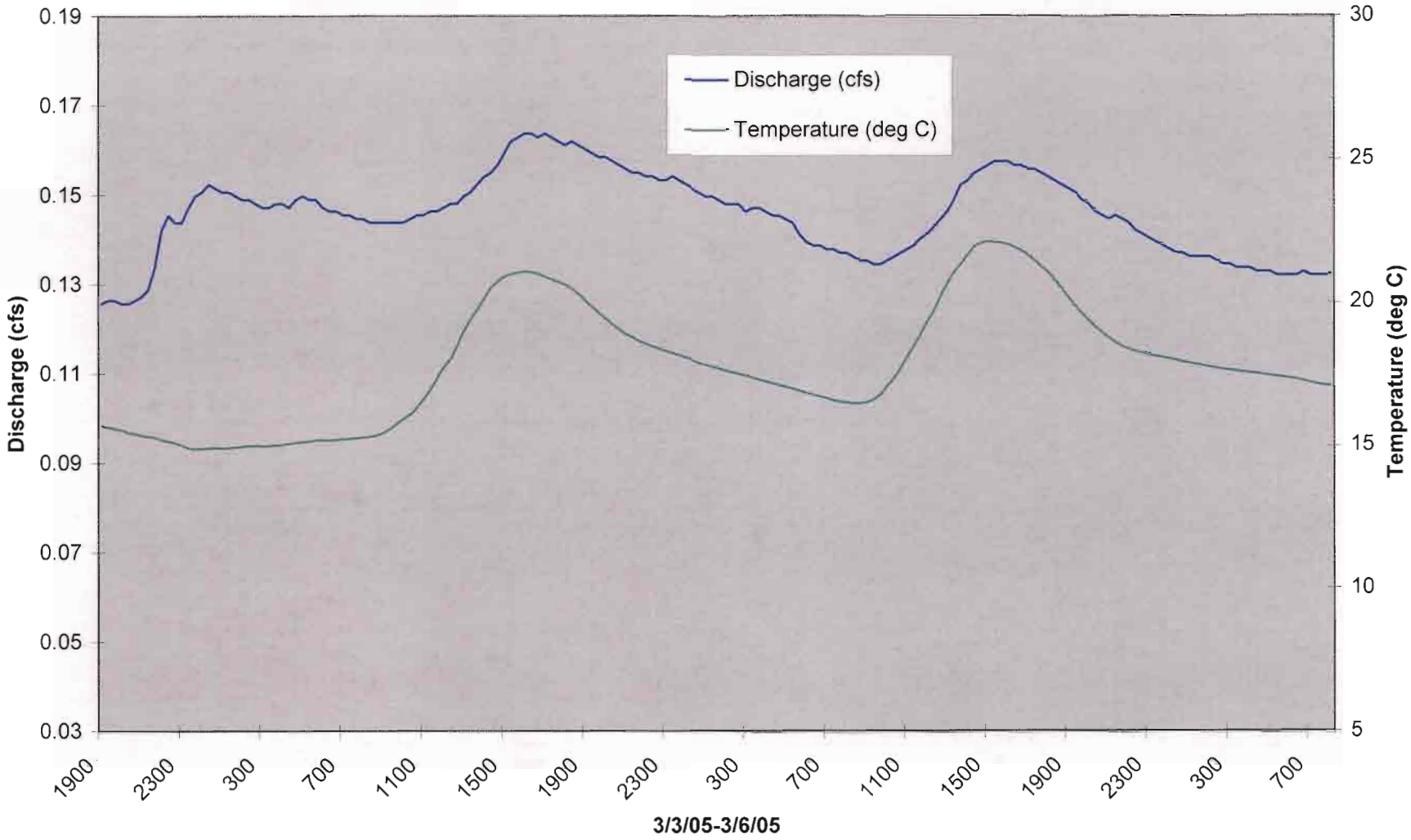
Graph 8.9B: Galeana Street Monitoring Station Discharge\Dissolved Oxygen vs Time



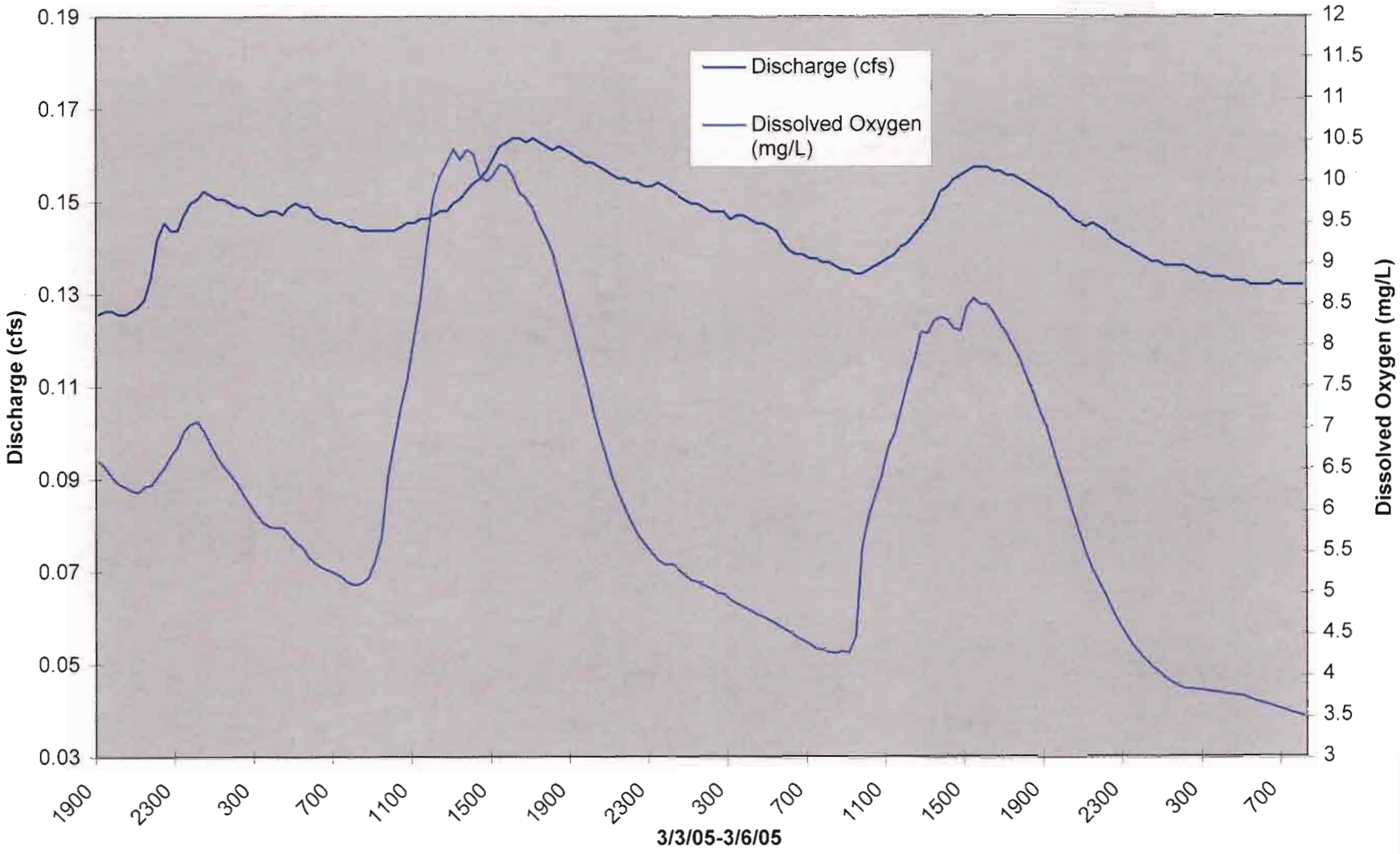
Graph 8.10B: Galeana Street Monitoring Station Discharge\pH vs Time



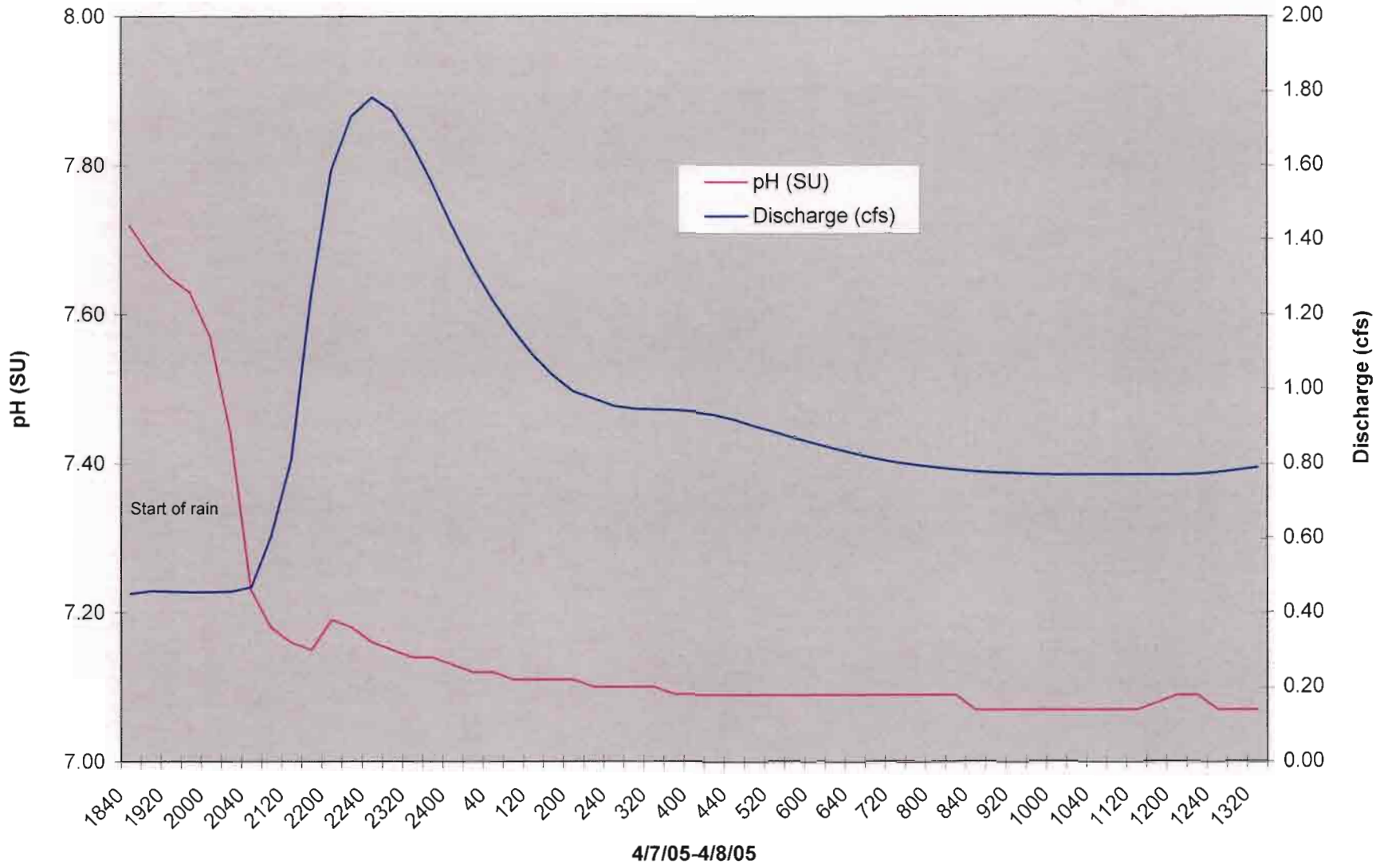
Graph 8.11B: Galeana Street Monitoring Station Discharge\Temperature vs Time



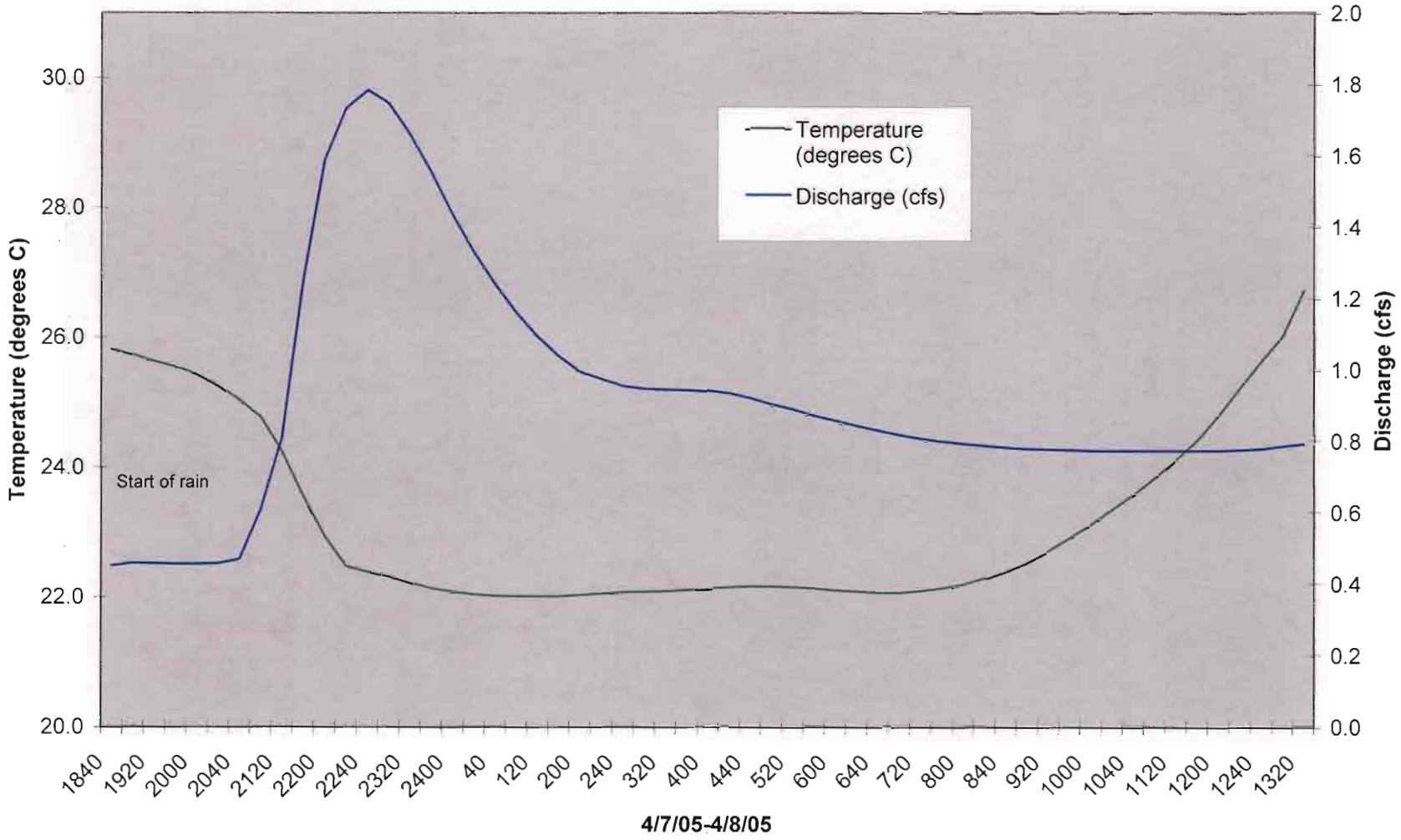
Graph 8.12B: Galeana Street Monitoring Station Discharge\Dissolved Oxygen vs Time



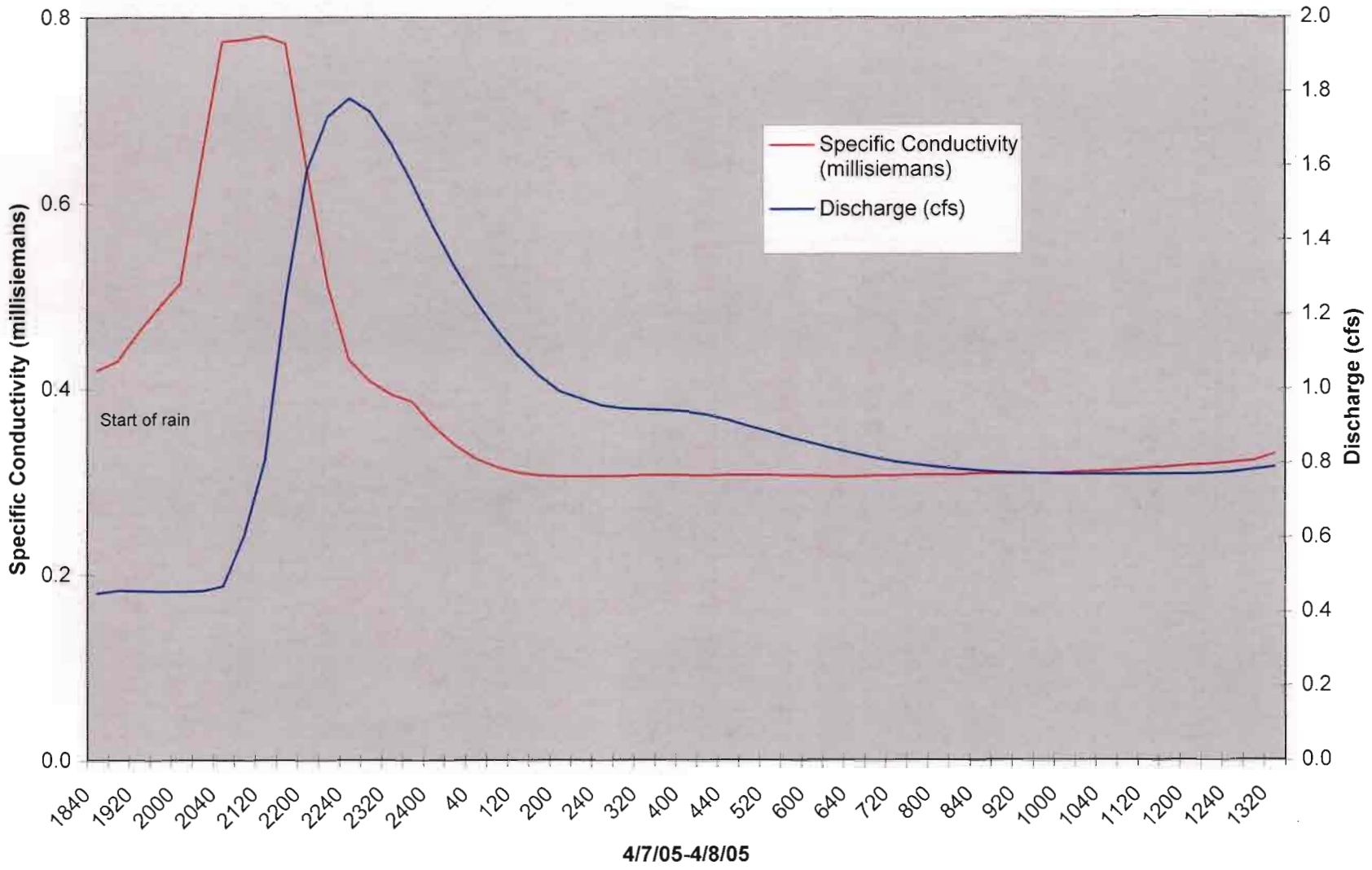
Graph 8.13B: Galeana Monitoring Station Discharge/pH vs Time 4/7/05- 4/8/05 Rain Event



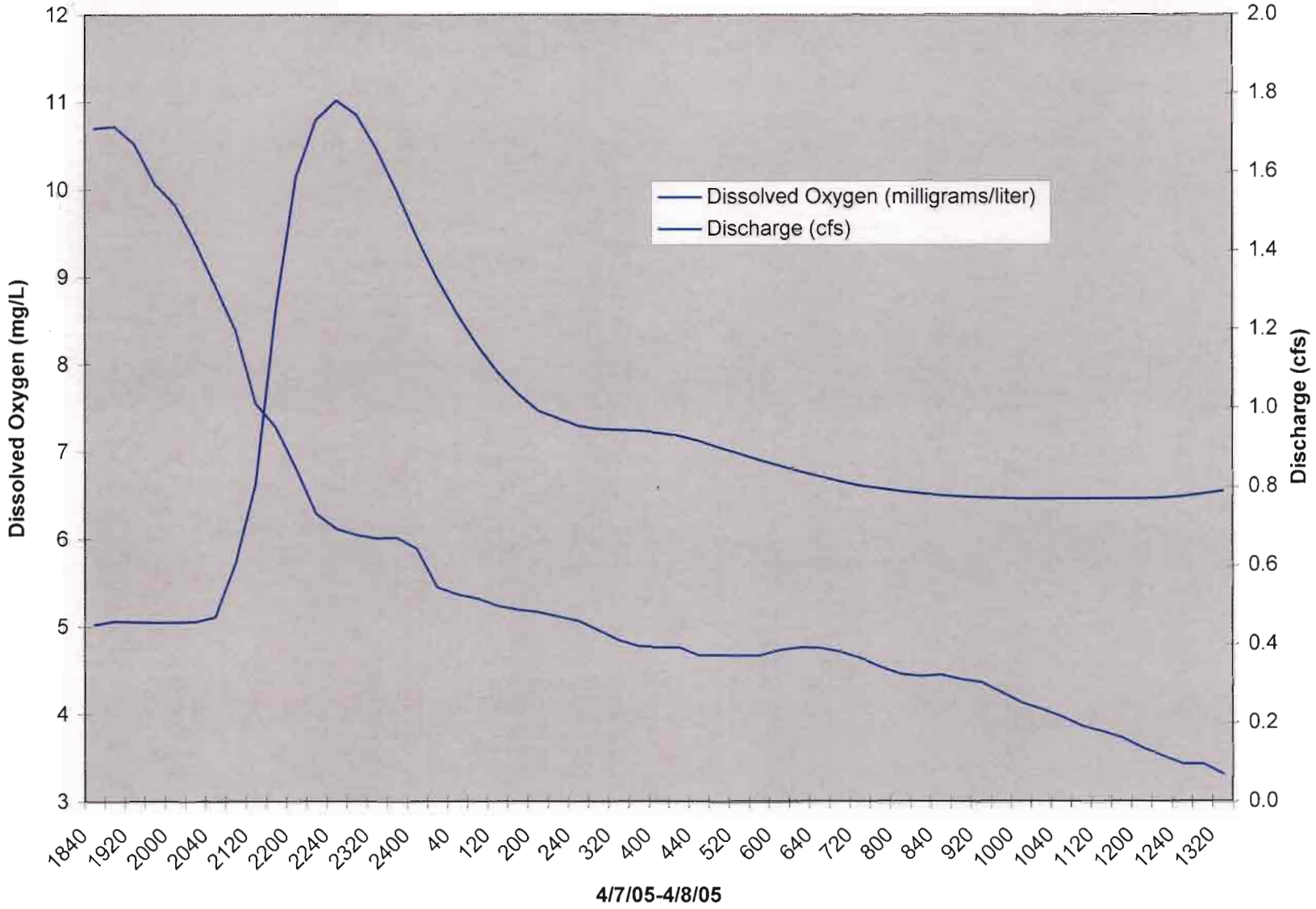
Graph 8.14B: Galeana Monitoring Station Discharge/Water Temperature vs Time
4/7/05- 4/8/05 Rain Event



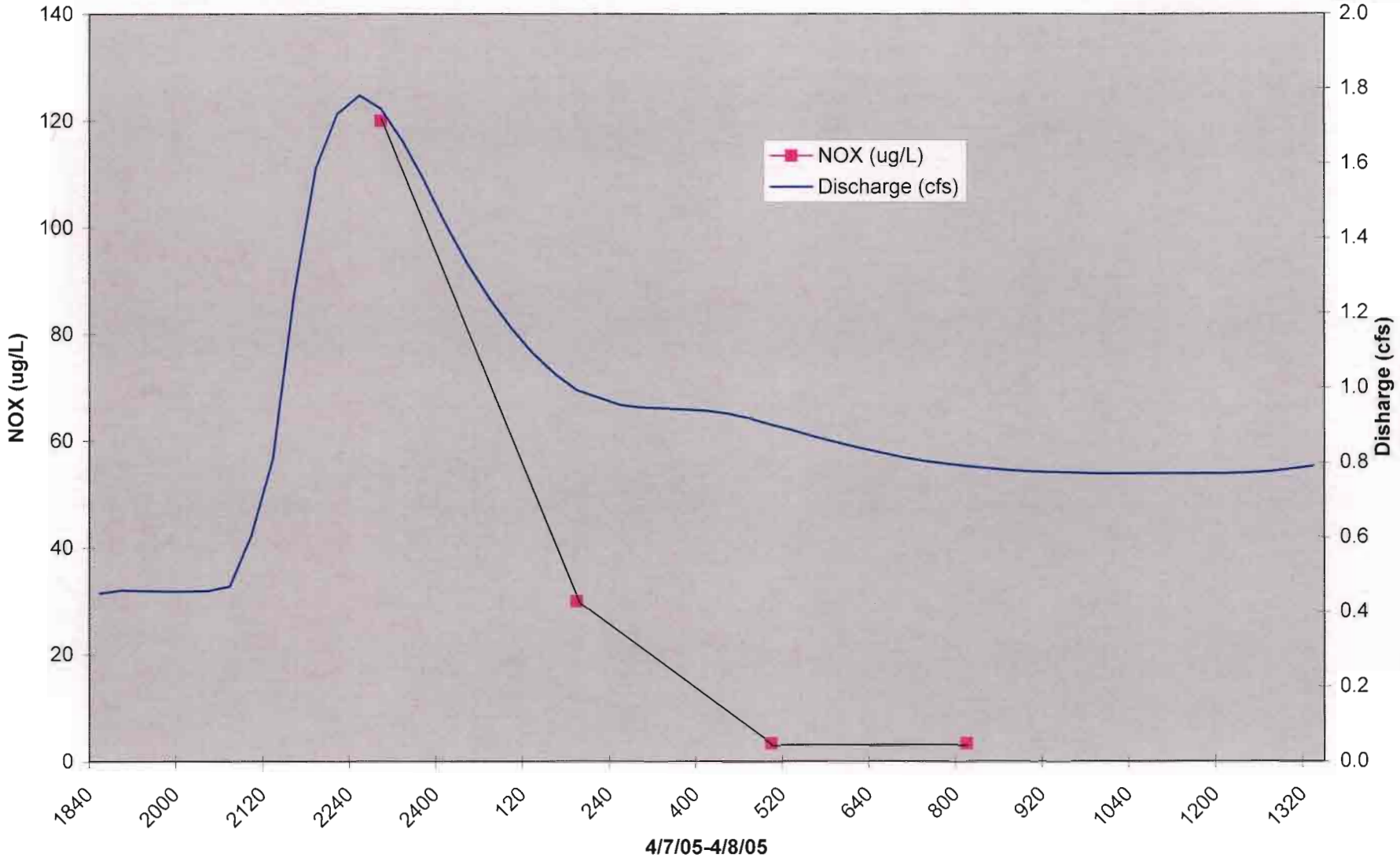
Graph 8.15B: Galena Monitoring Station Discharge/Conductivity vs Time 4/7/05- 4/8/05 Rain Event



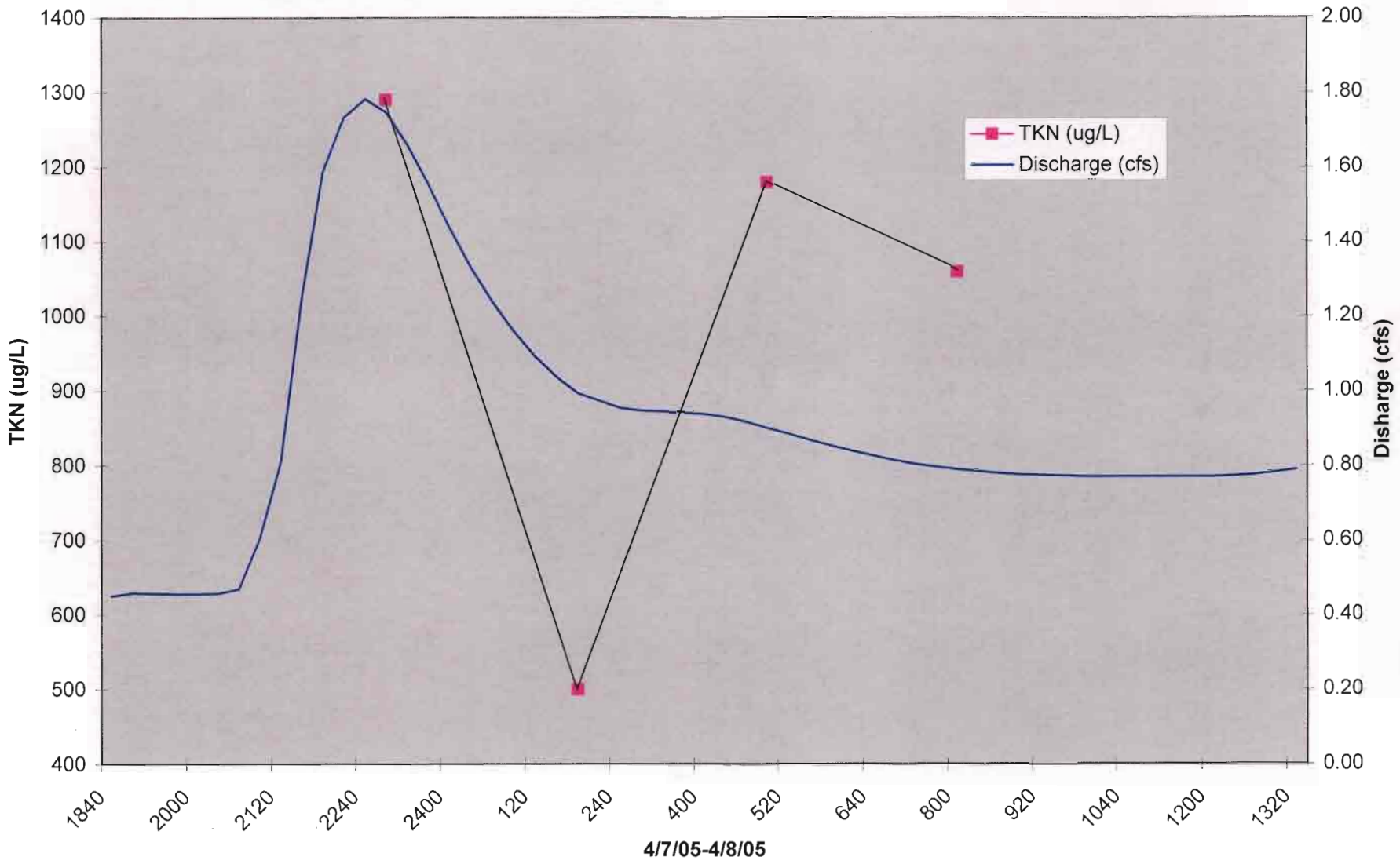
Graph 8.16B: Galeana Monitoring Station Discharge/Dissolved Oxygen vs Time 4/7/05- 4/8/05 Rain Event



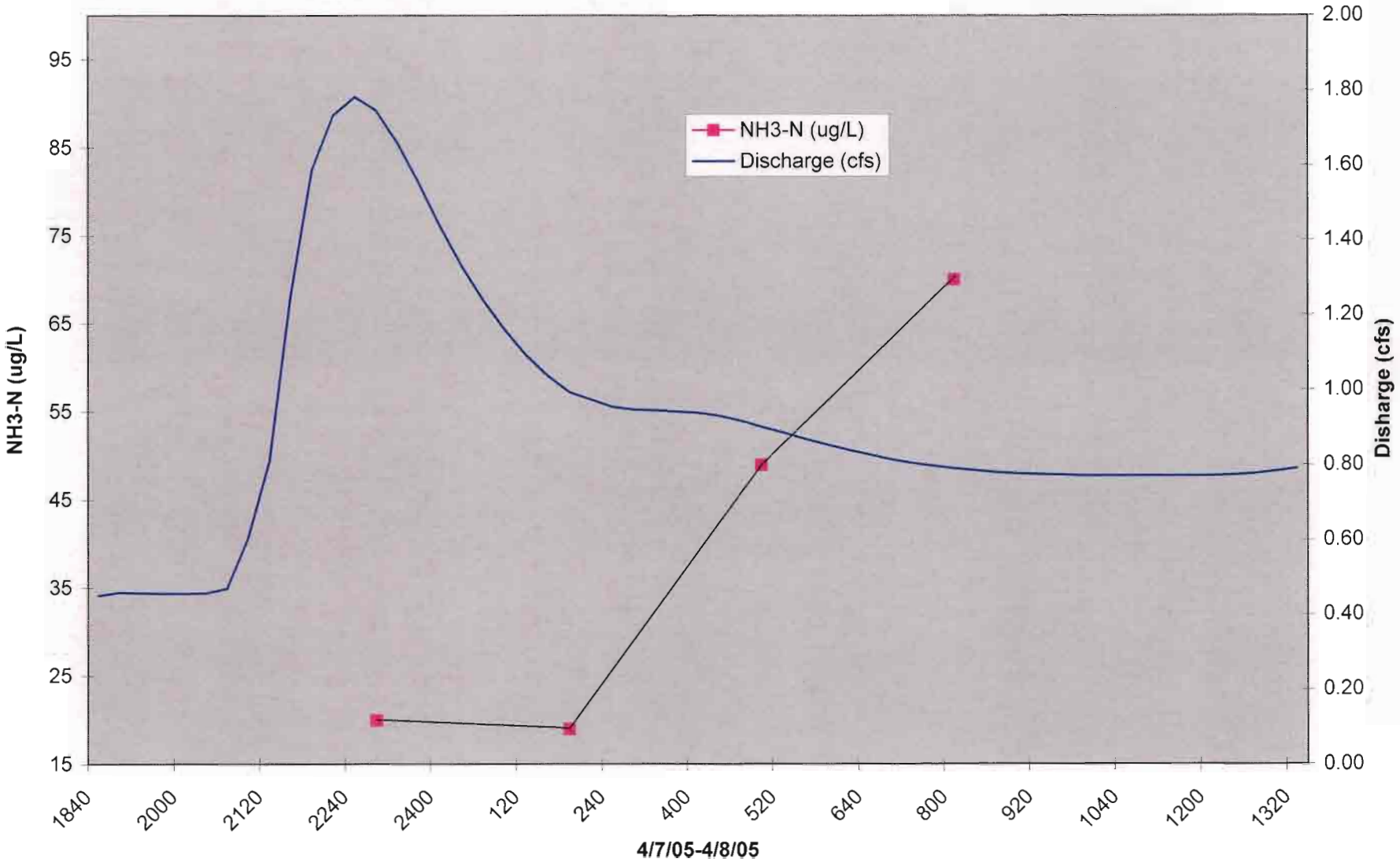
Graph 8.17B: Galeana Monitoring Station NOX/Discharge vs. Time 4/7/05-4/8/05 Rain Event



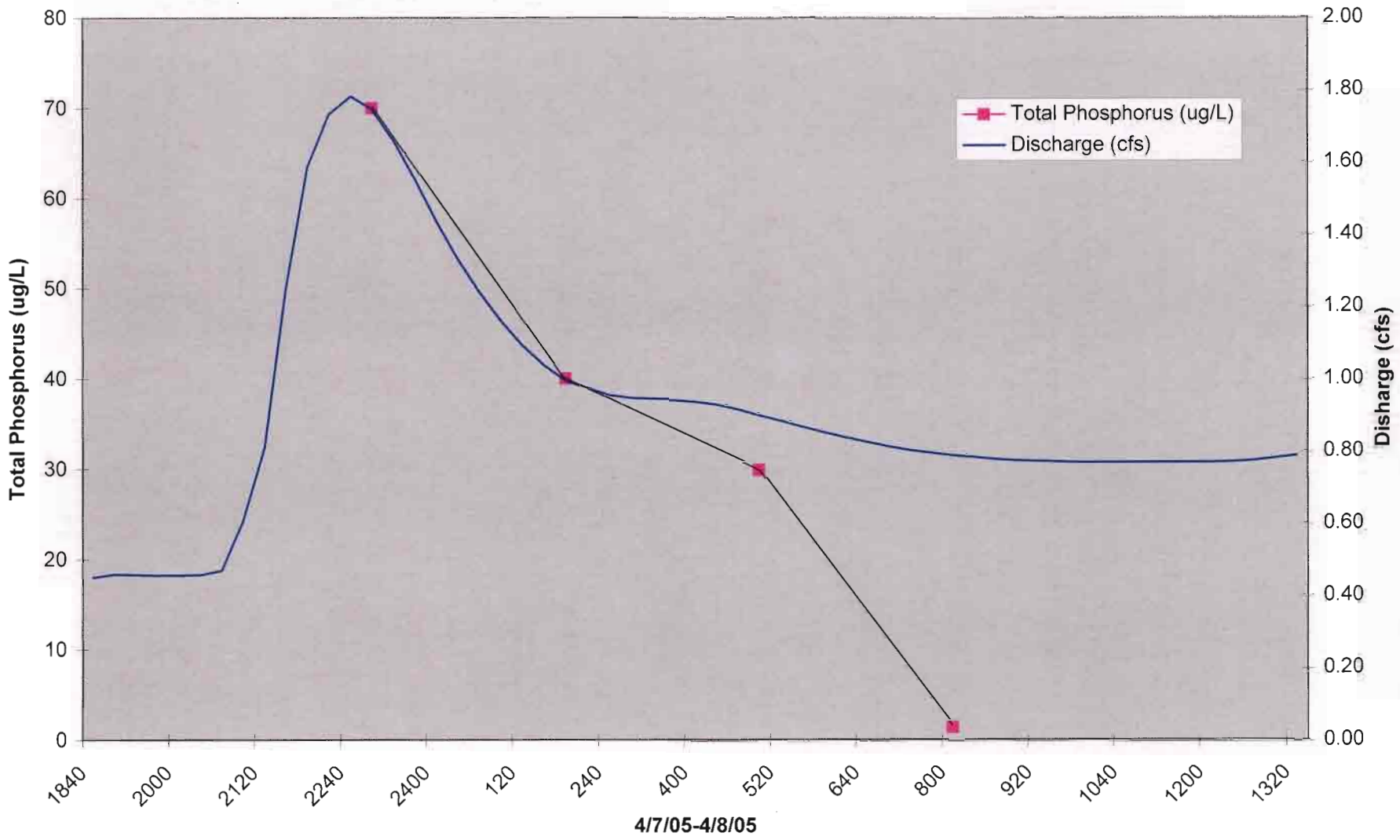
Graph 8.18B: Galeana Monitoring Station TKN/Discharge vs. Time 4/7/05-4/8/05 Rain Event



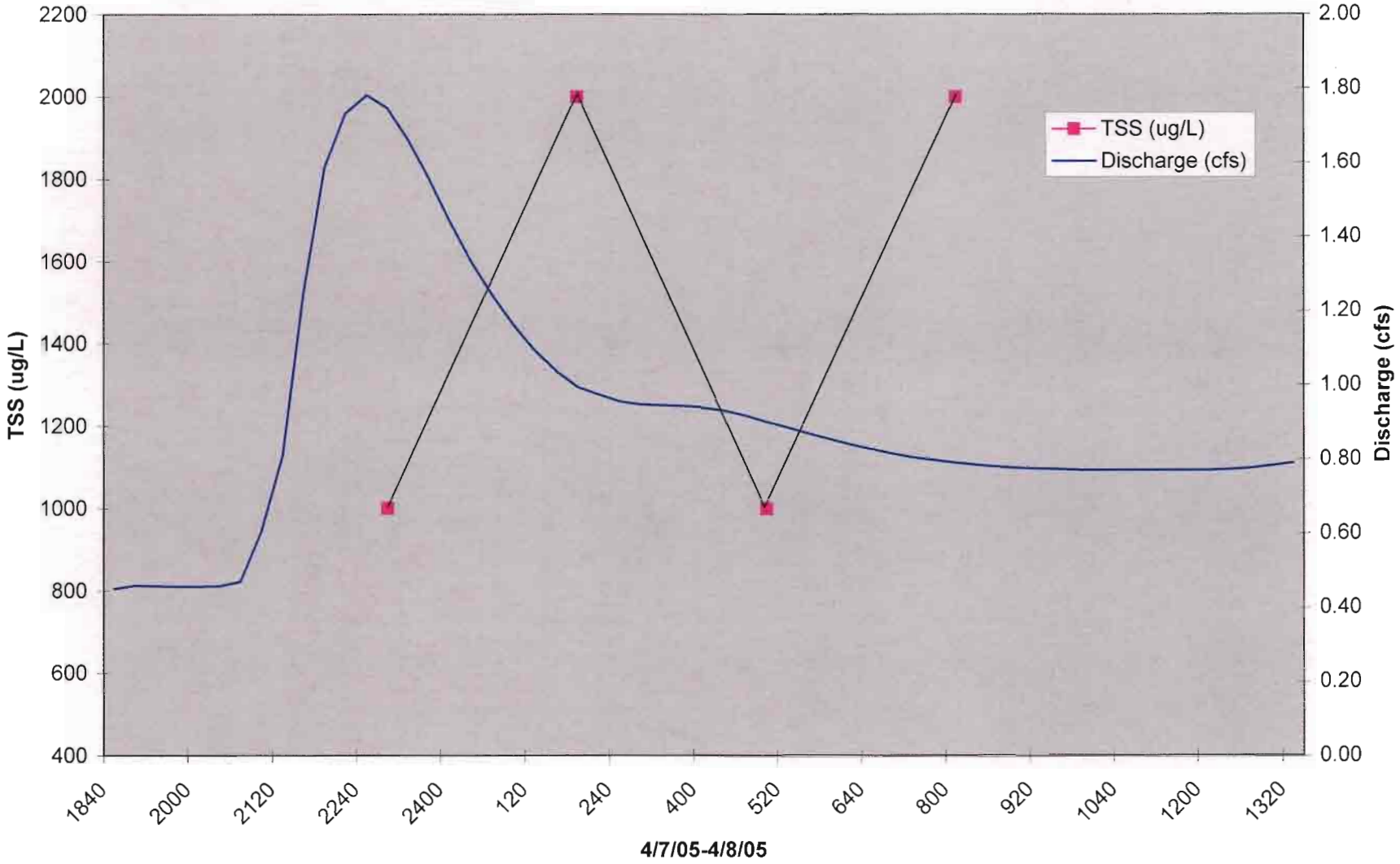
Graph 8.19B: Galeana Monitoring Station NH3-N/Discharge vs. Time 4/7/05-4/8/05 Rain Event



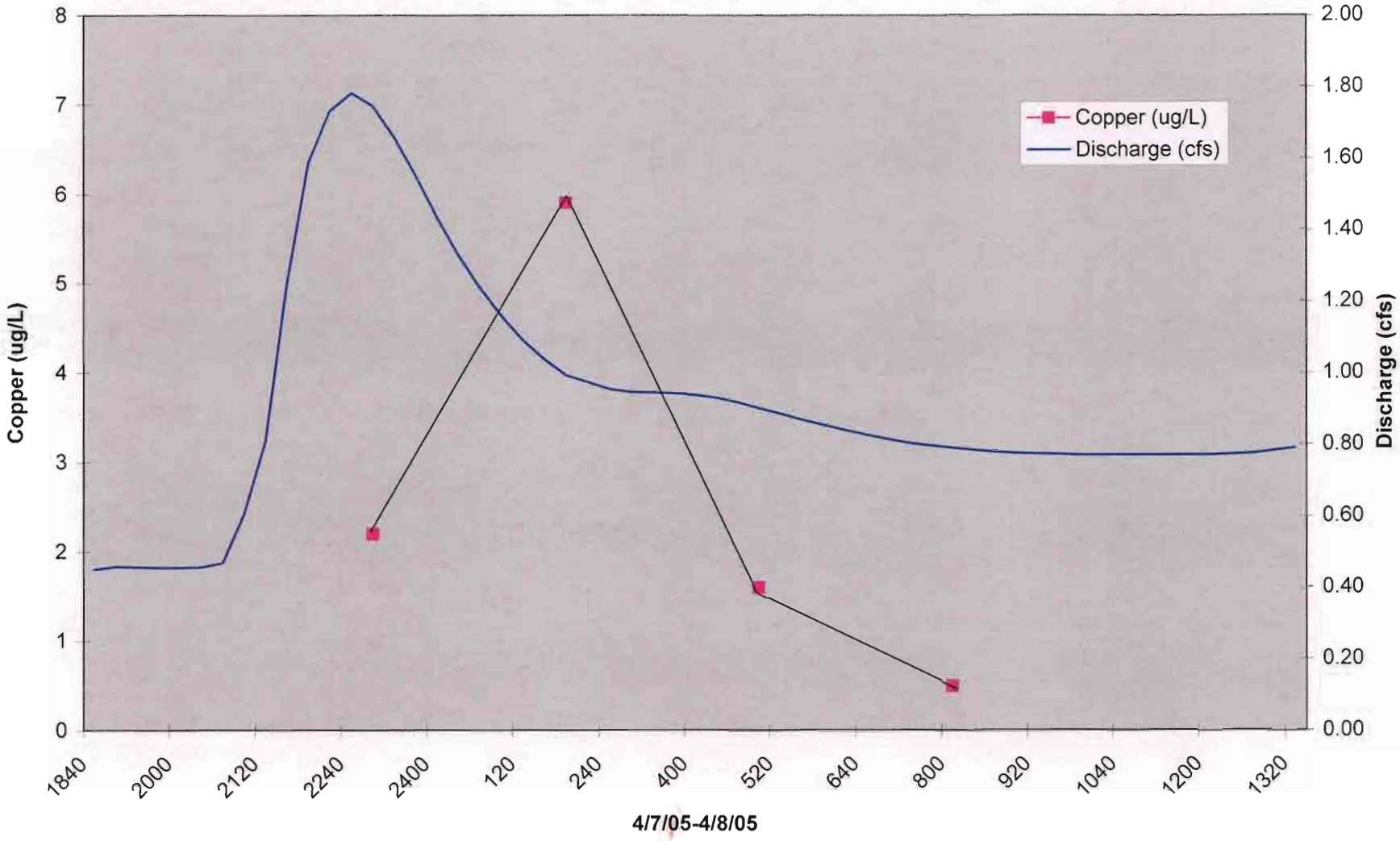
Graph 8.20B: Galeana Monitoring Station Total Phosphorus/Discharge vs. Time 4/7/05-4/8/05 Rain Event



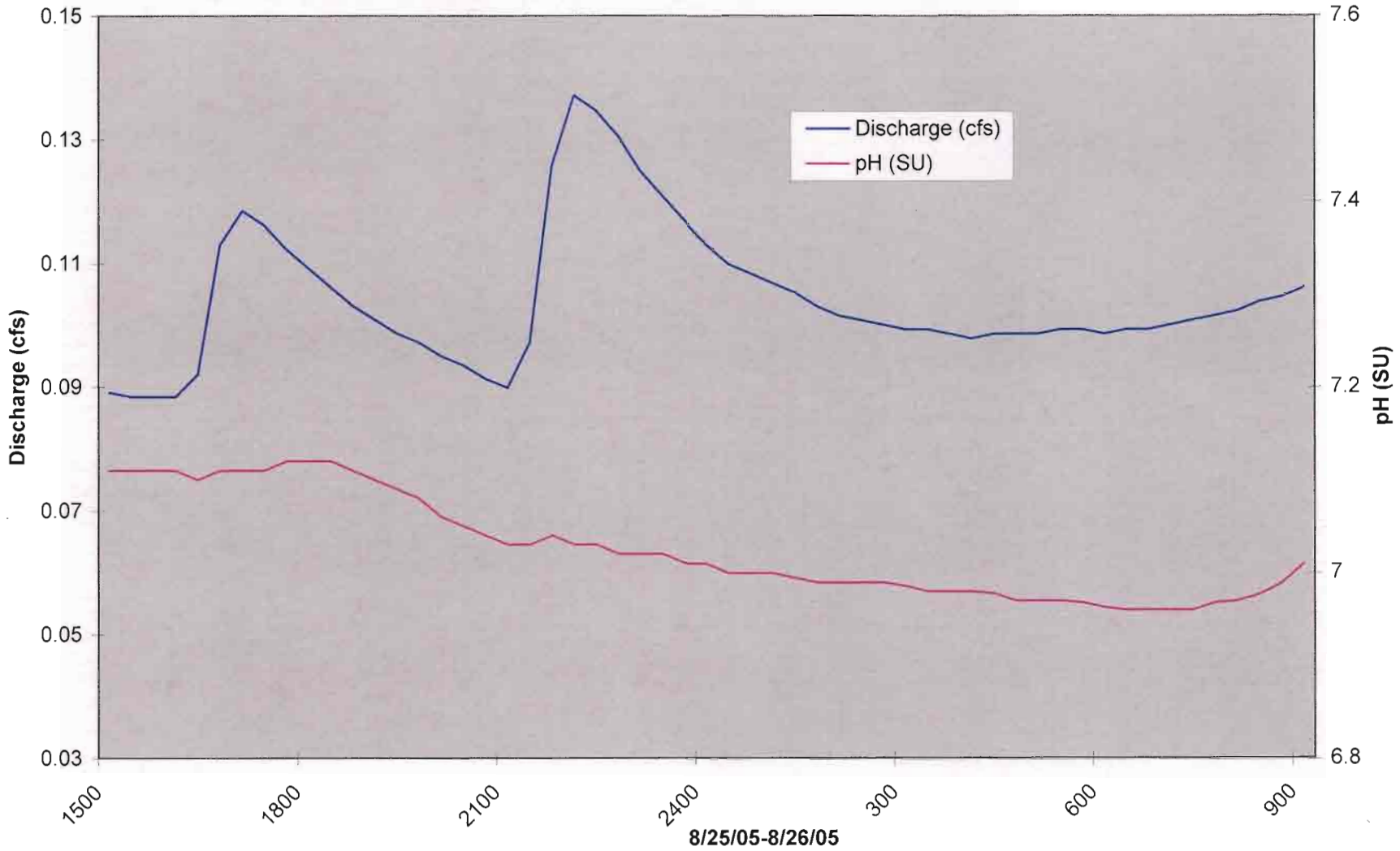
Graph 8.21B: Galeana Monitoring Station TSS/Discharge vs. Time 4/7/05-4/8/05 Rain Event



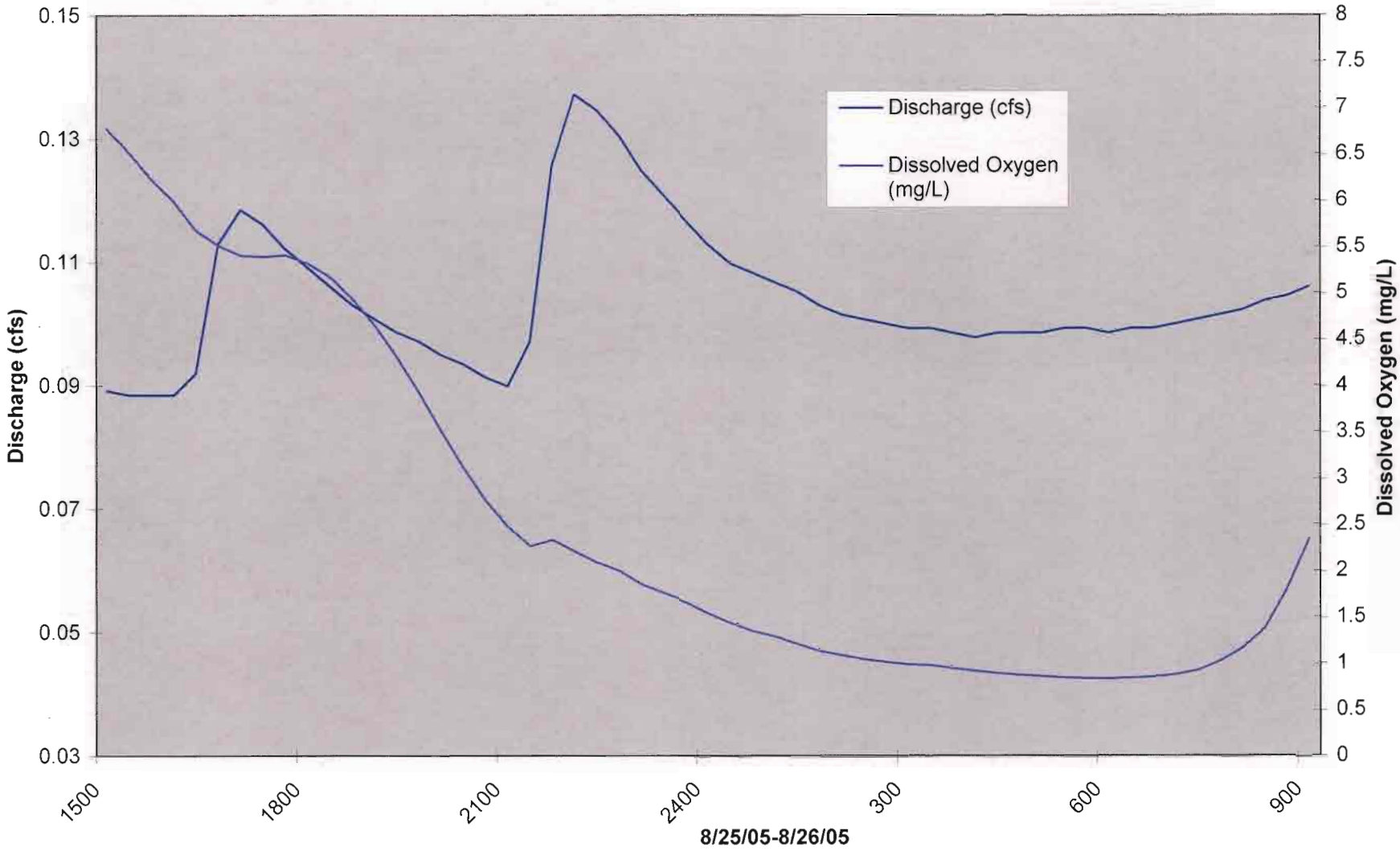
Graph 8.22B: Galeana Monitoring Station Copper/Discharge vs. Time 4/7/05-4/8/05 Rain Event



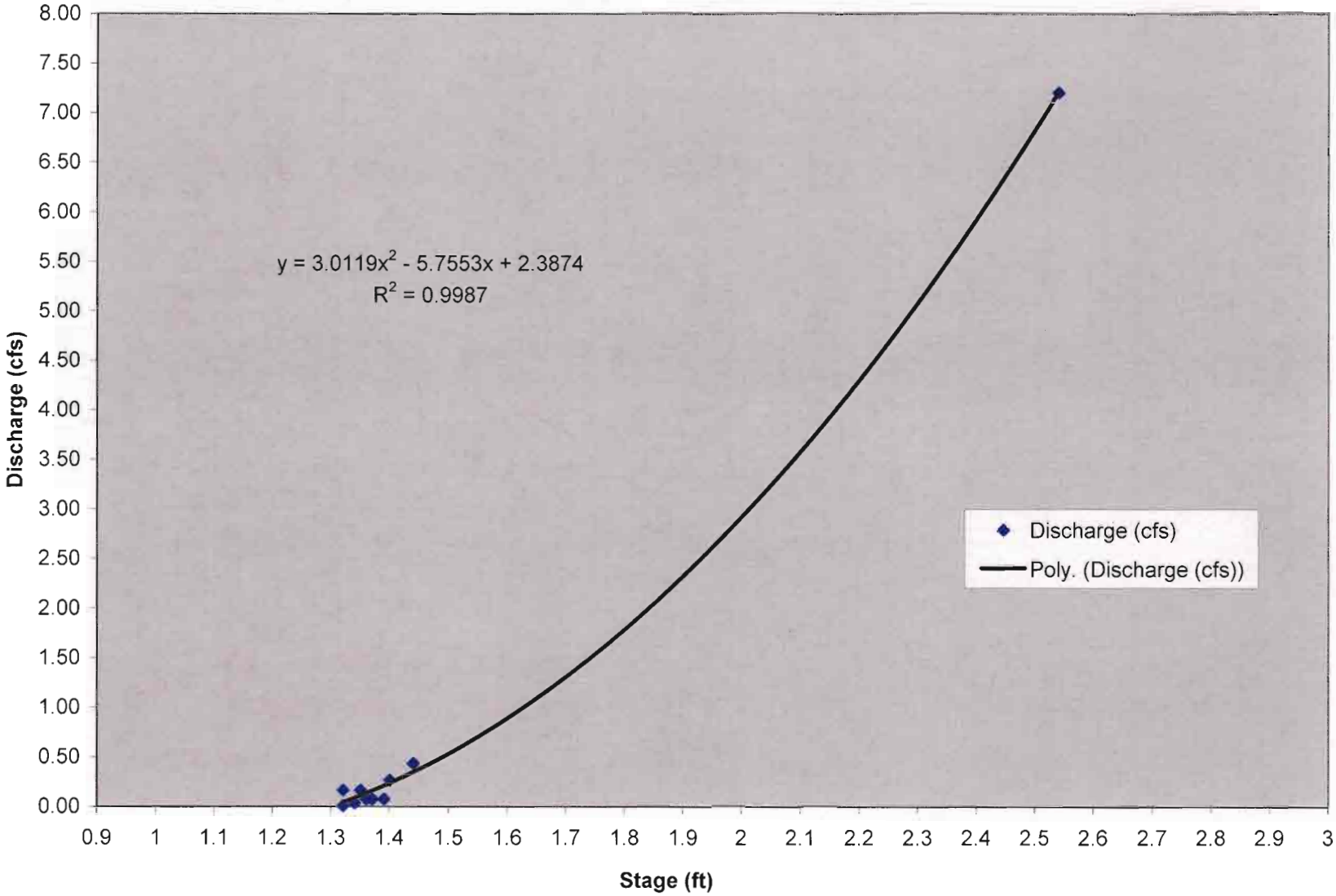
Graph 8.23B: Galeana Street Monitoring Station Discharge\pH vs Time



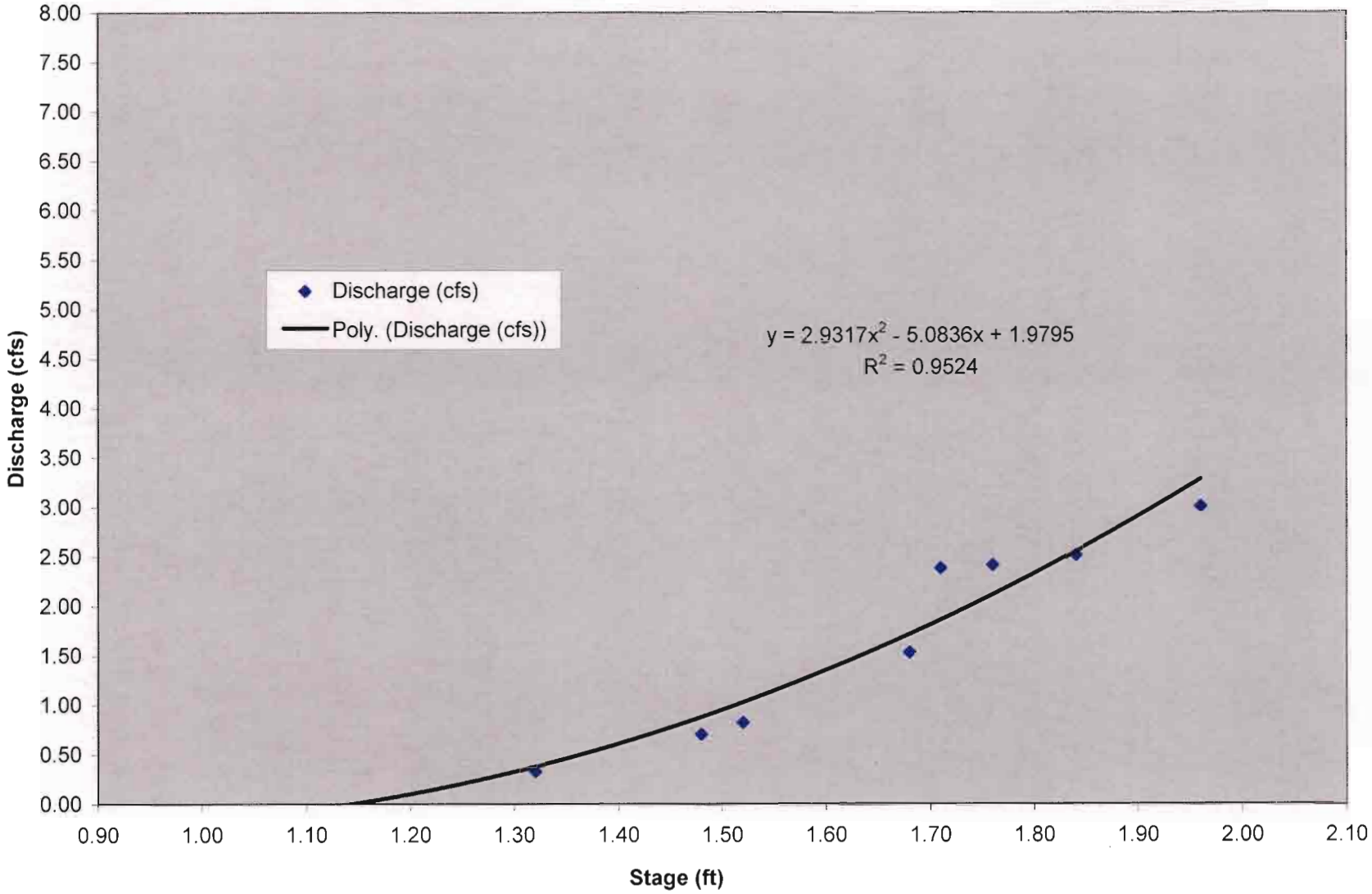
Graph 8.24B: Galeana Street Monitoring Station Discharge\Dissolved Oxygen vs Time



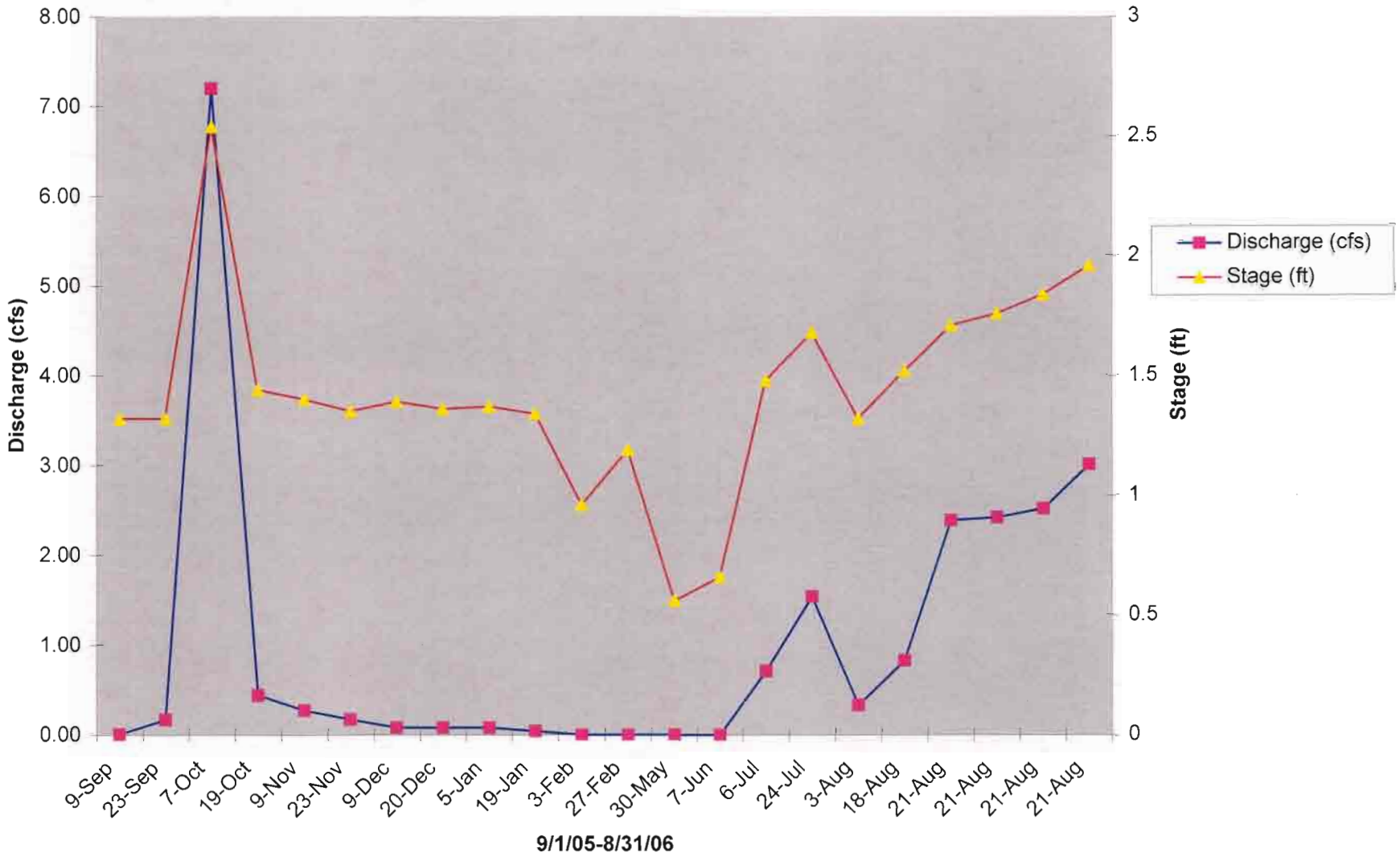
Graph 8.1C: Galeana Street Monitoring Station Discharge vs Stage Calibration Curve
9/1/05-2/28/06 For Stage >=1.31 ft.



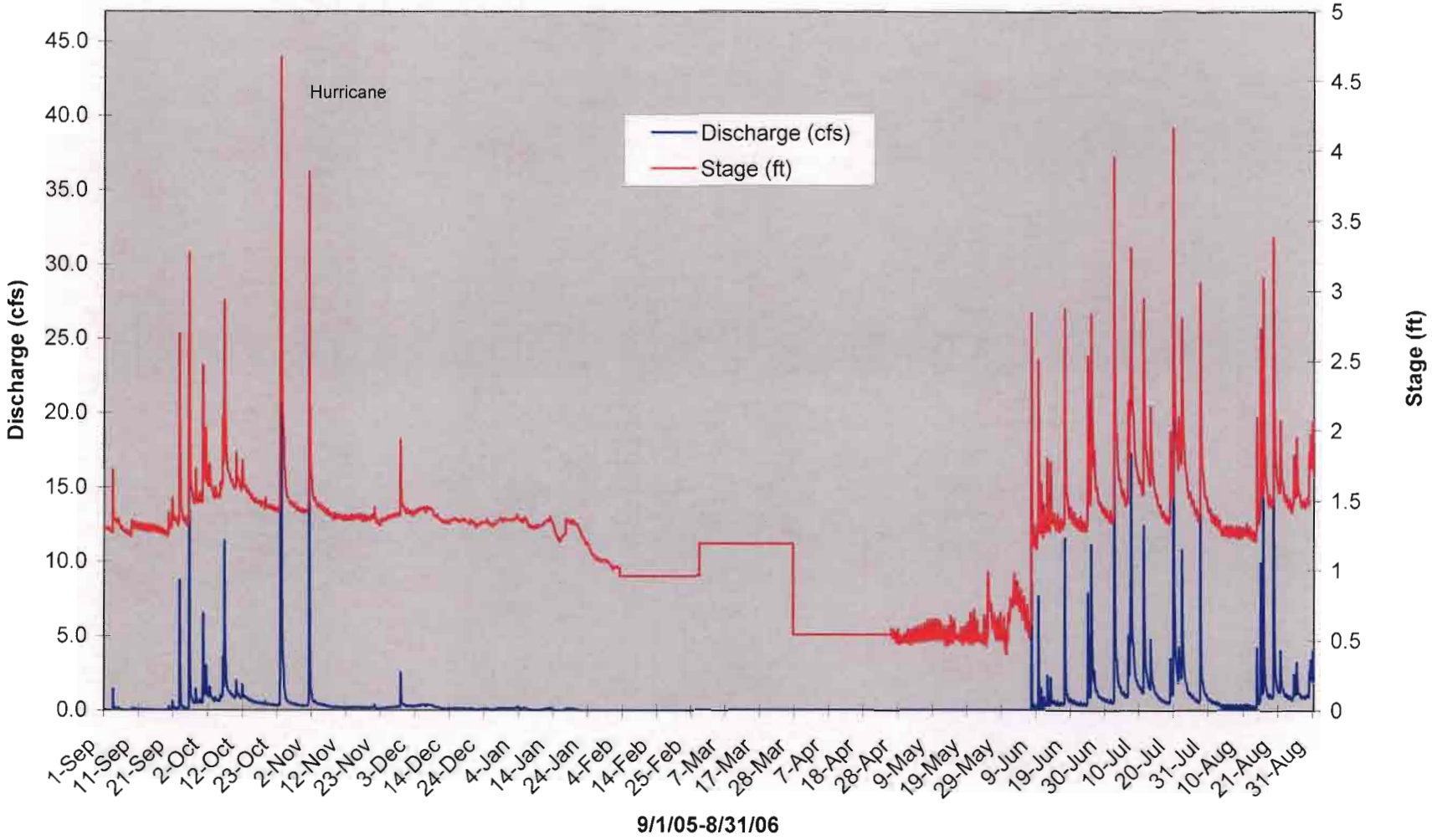
Graph 8.2C: Galeana Street Monitoring Station Discharge vs Stage Calibration Curve
6/1/06-8/31/06 For Stage >1.27 ft.



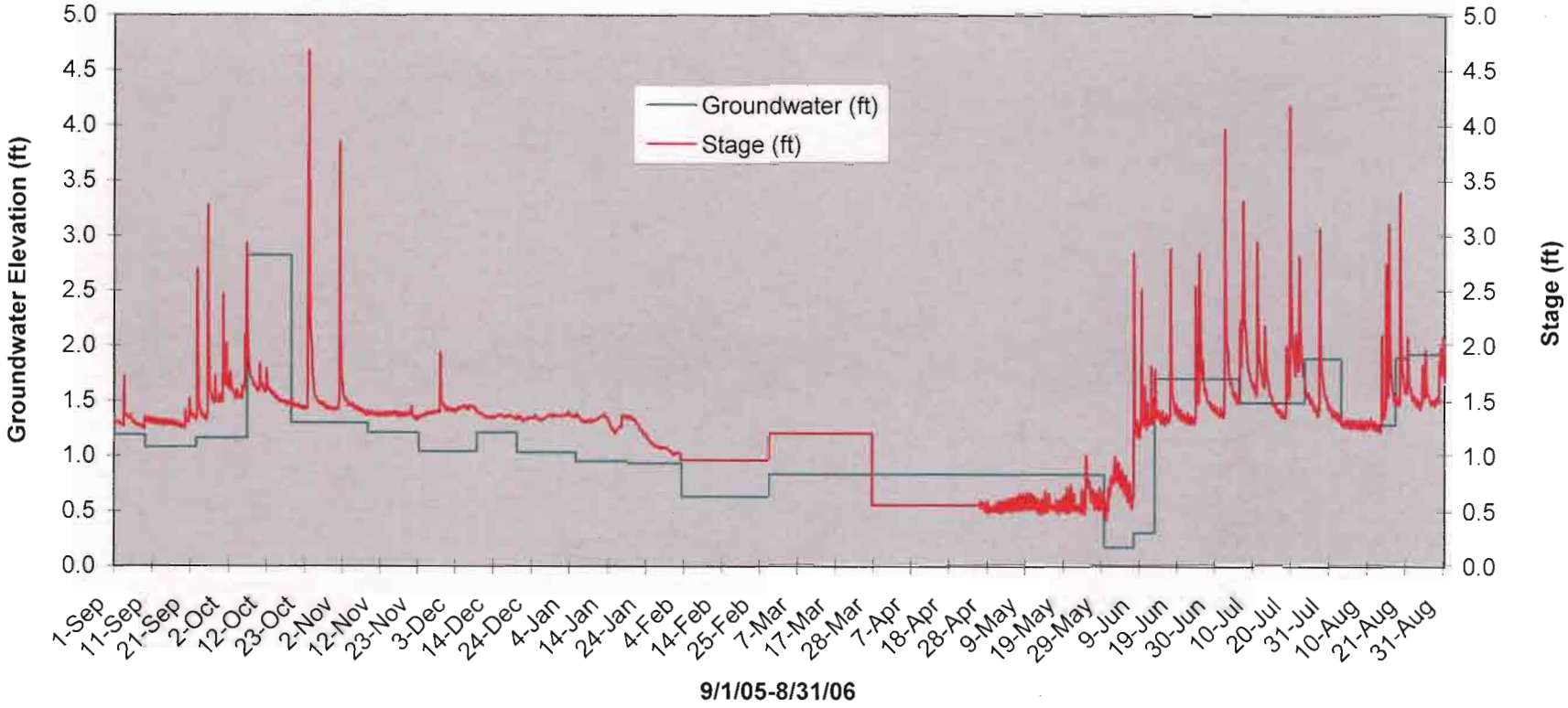
Graph 8.3C: Galeana Street Monitoring Station Discharge(ADV)\Stage vs Time



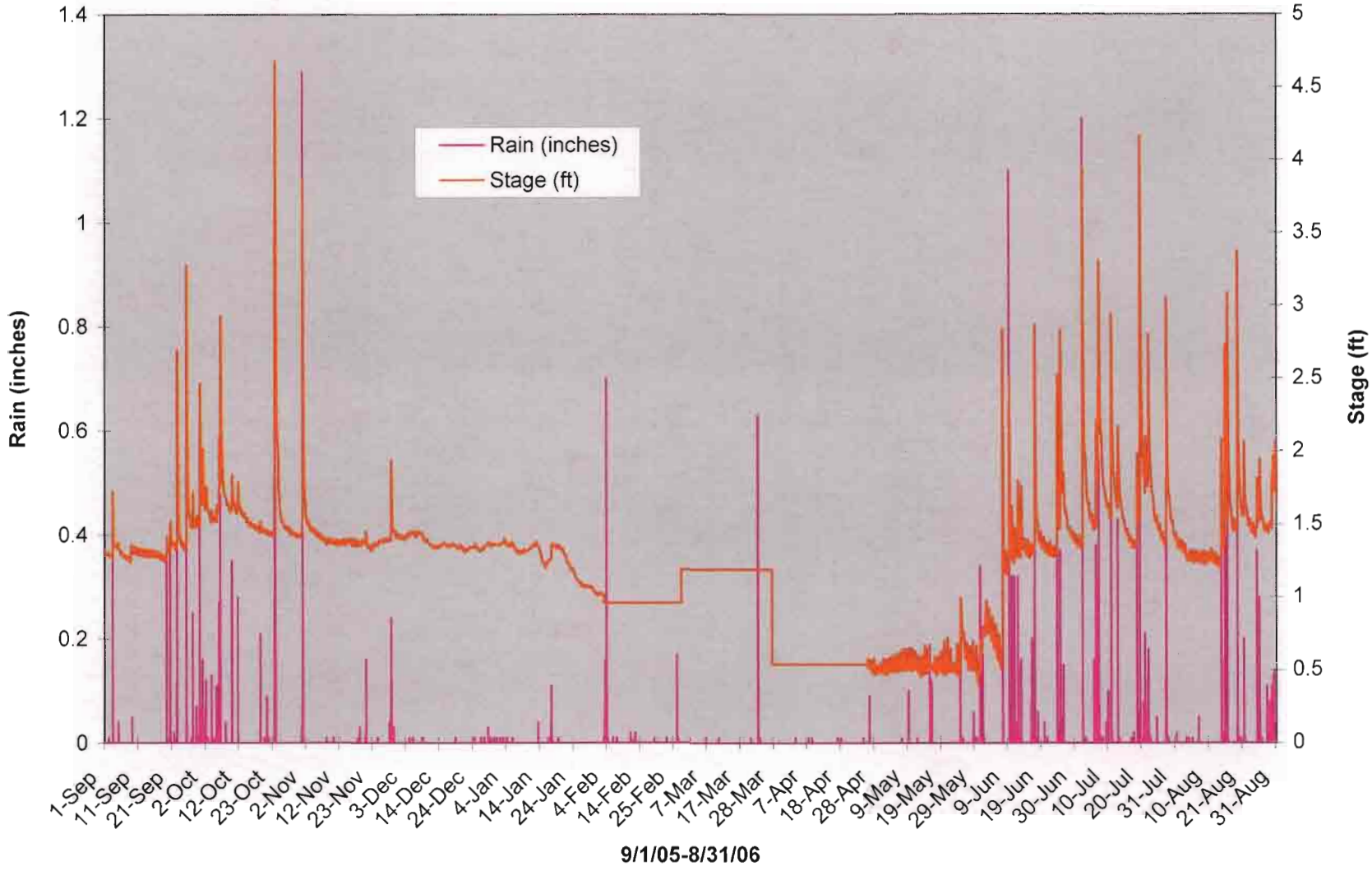
Graph 8.4C: Galeana Street Monitoring Station Discharge\Stage vs Time



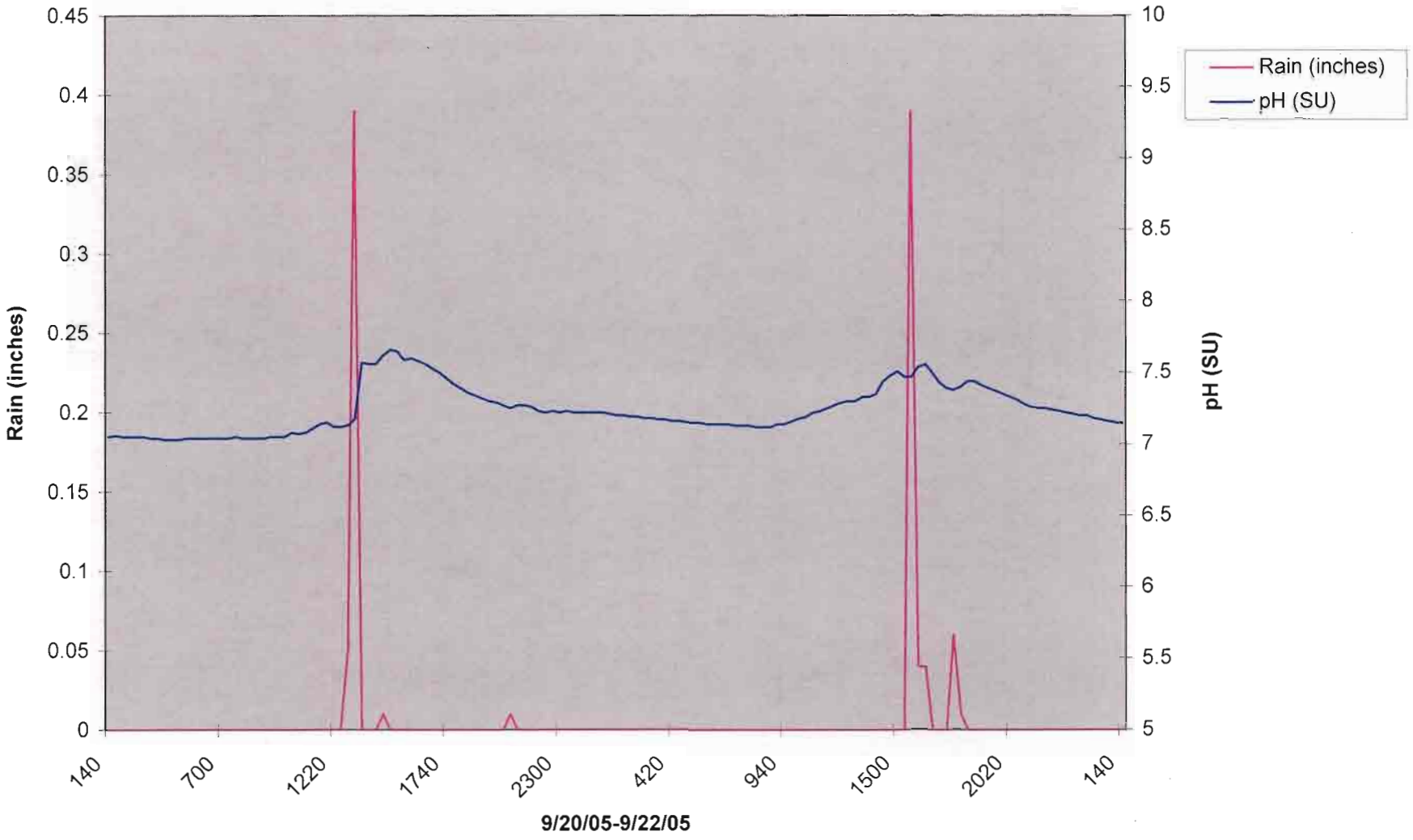
Graph 8.5C: Galeana Street Monitoring Station Groundwater Elevation\Stage vs.Time



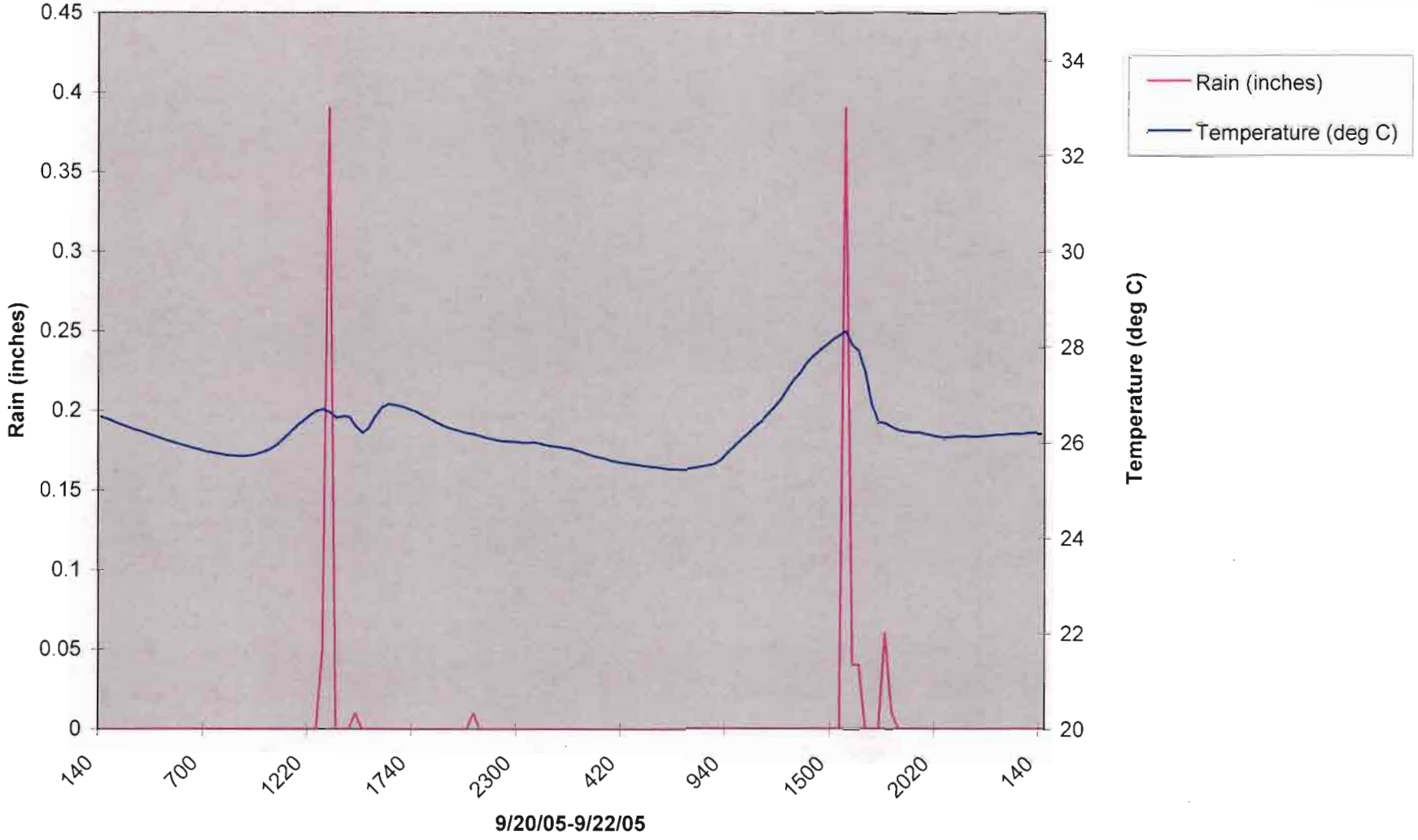
Graph 8.6C: Galeana Street Monitoring Station Rain\Stage vs Time



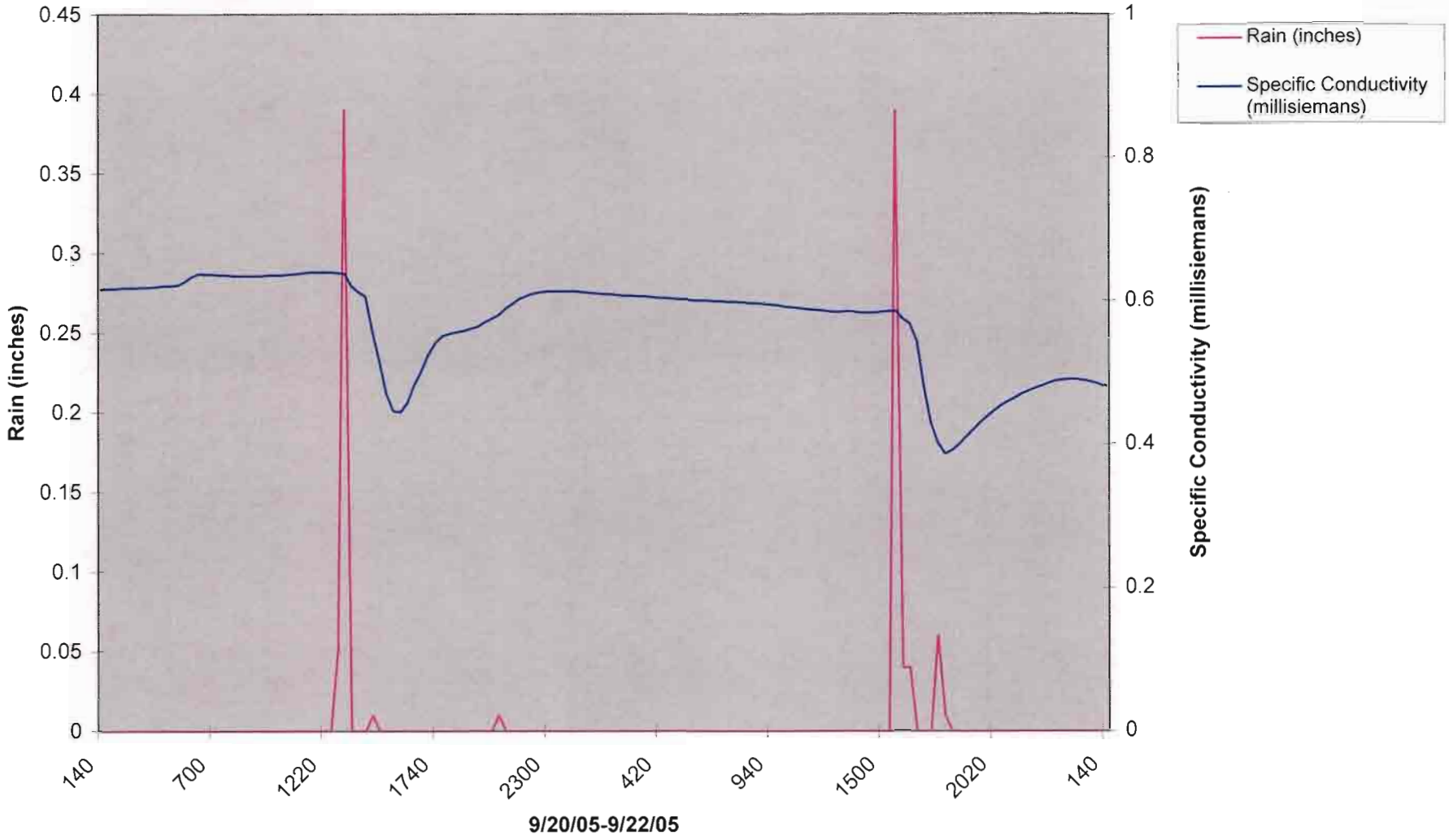
Graph 8.7C: Galeana Street Monitoring Station Rain\pH vs Time



Graph 8.8C: Galeana Street Monitoring Station Rain\Temperature vs Time

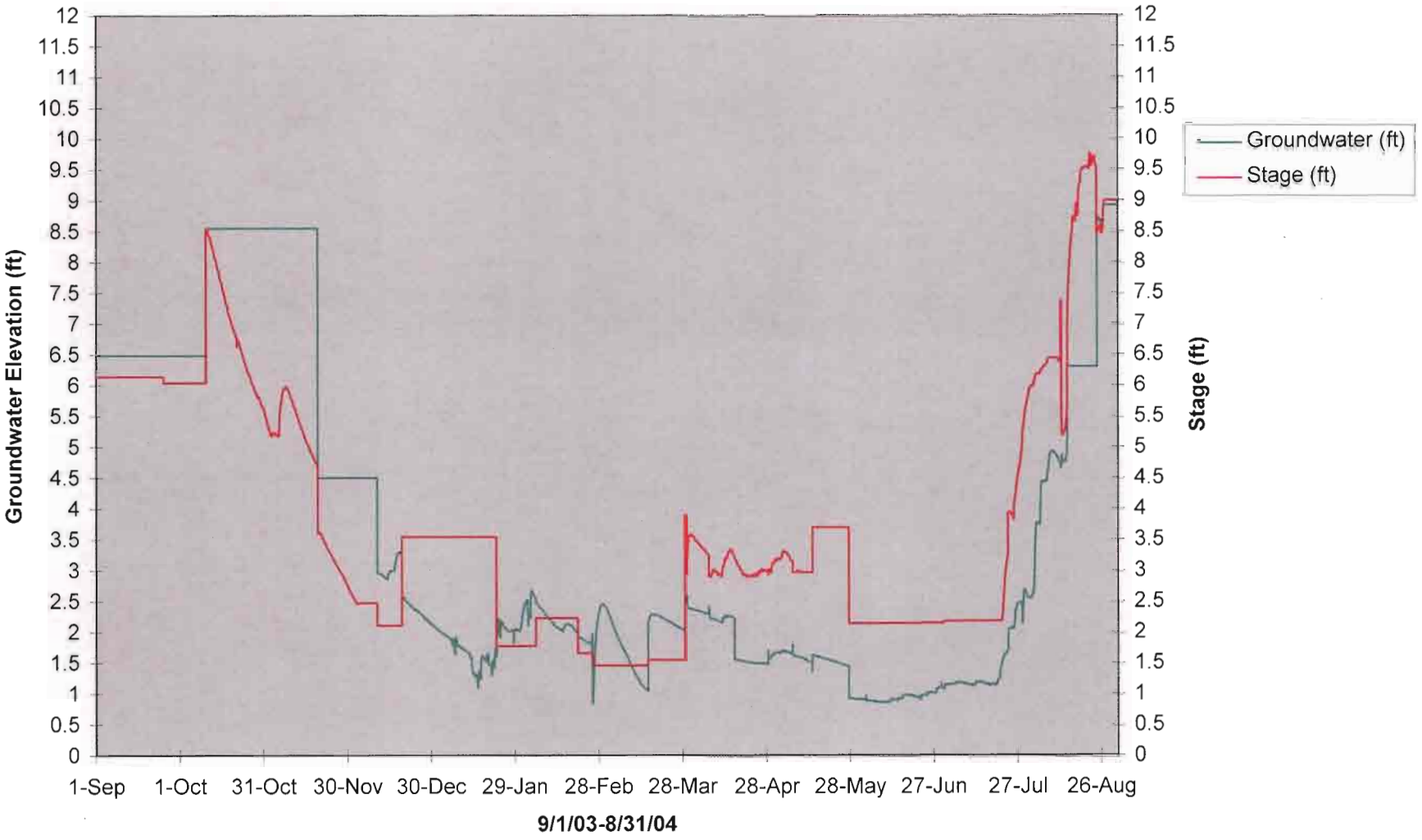


Graph 8.9C: Galeana Street Monitoring Station Rain\SpecificConductivity vs Time

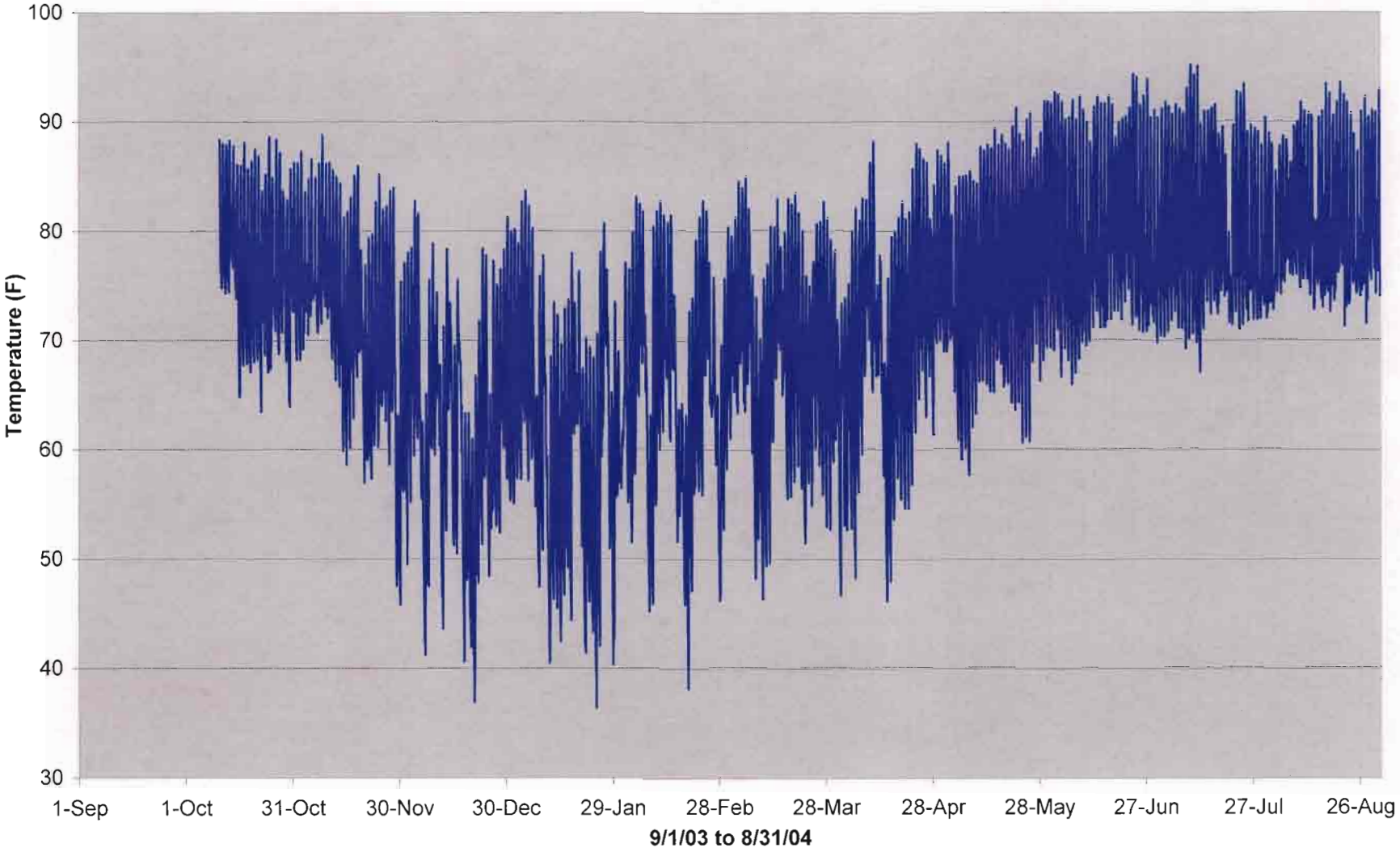


A.9 KIEHL CANAL GRAPHS

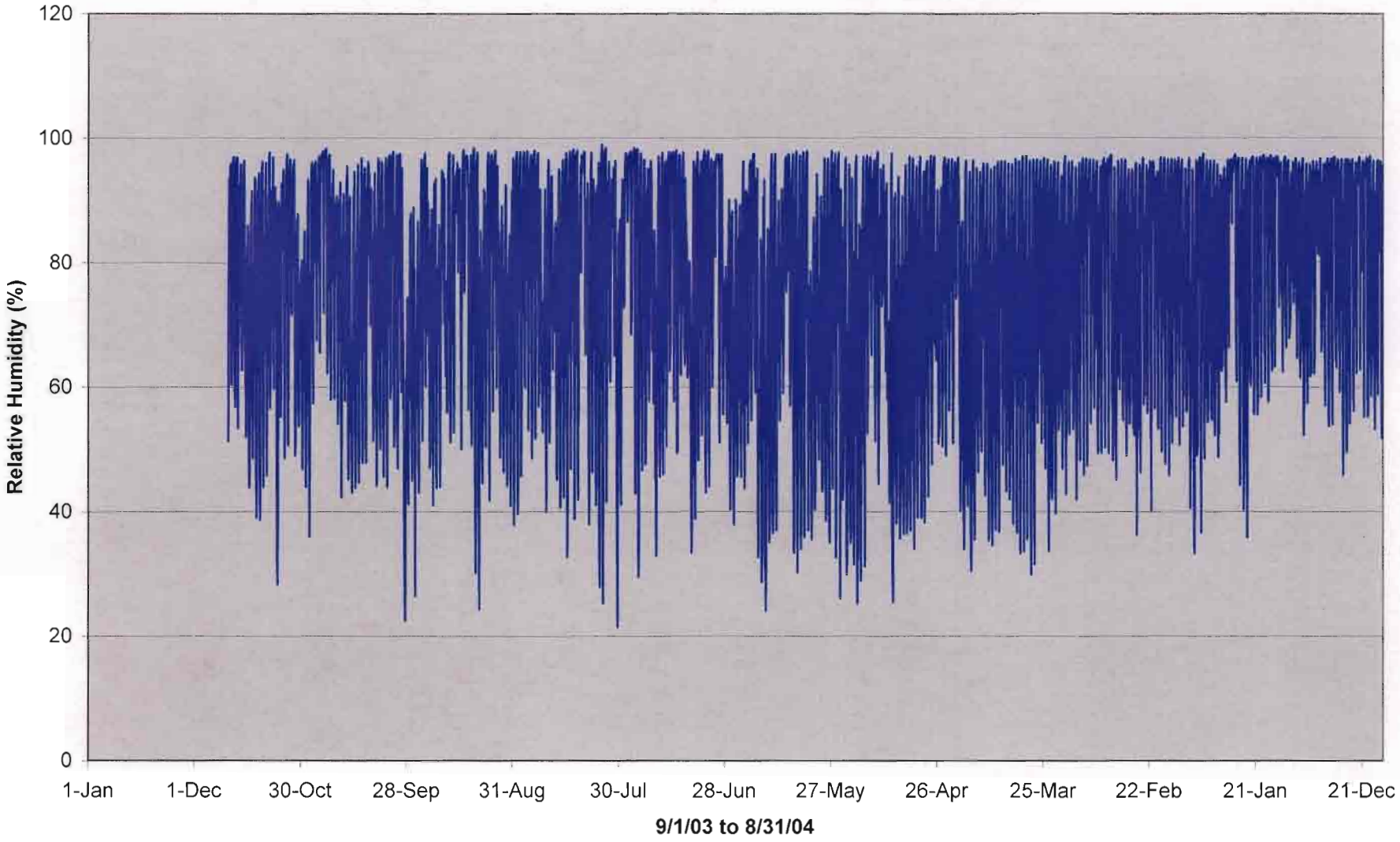
Graph 9.1A: Kiehl Canal Monitoring Station Stage\Groundwater Elevation vs Time



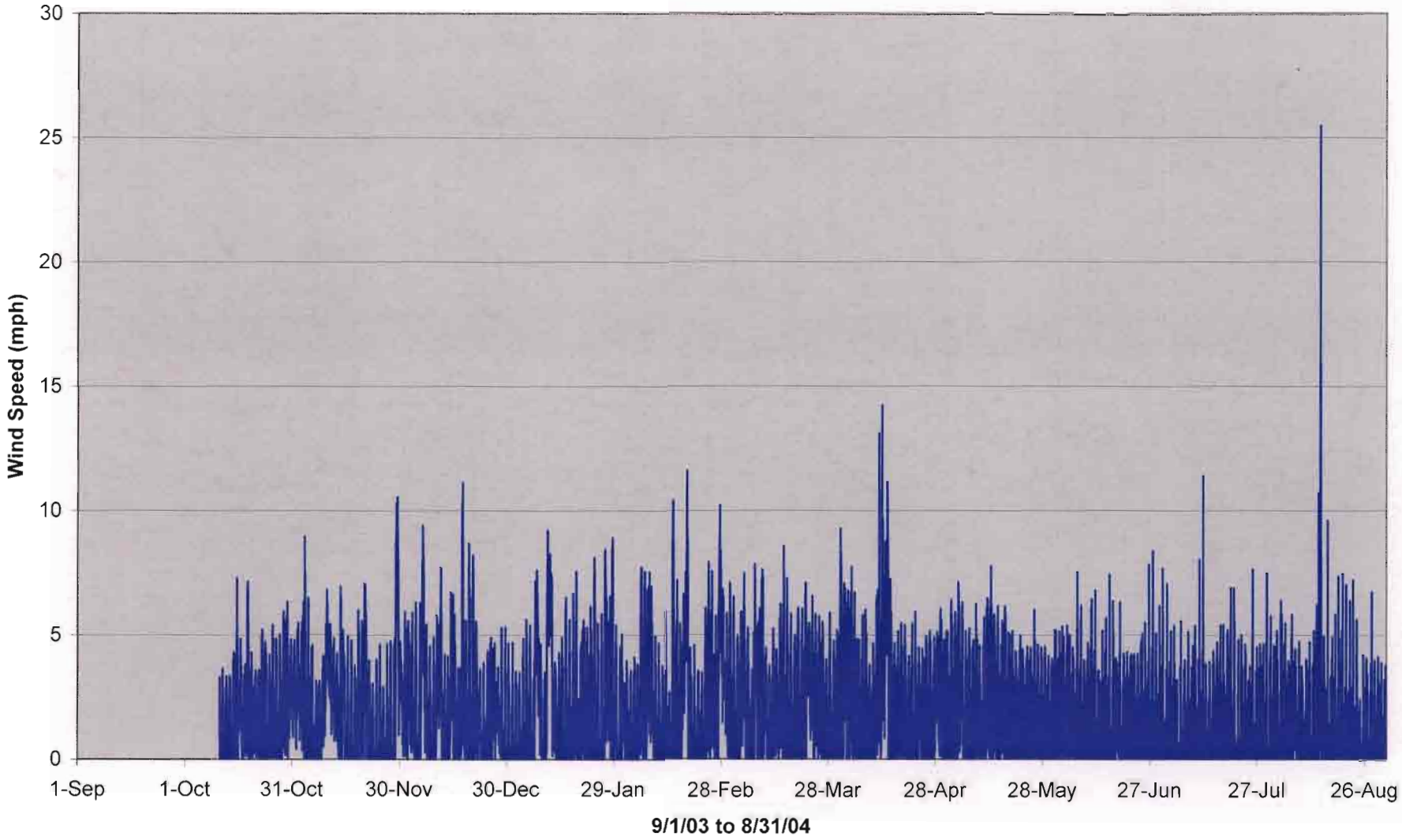
Graph 9.2A: Kiehl Canal Monitoring Station Air Temperature



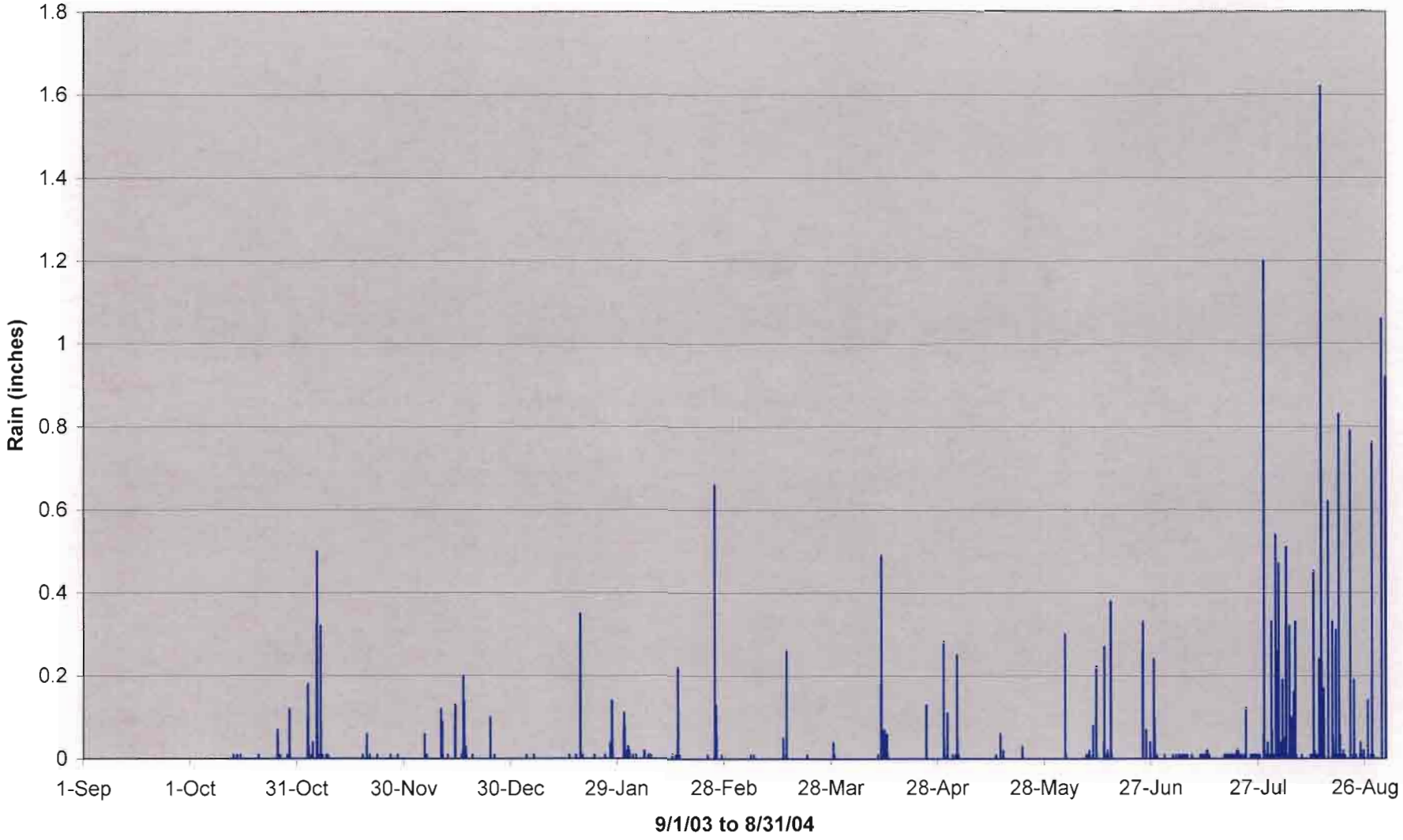
Graph 9.3A: Kiehl Weather Station Relative Humidity



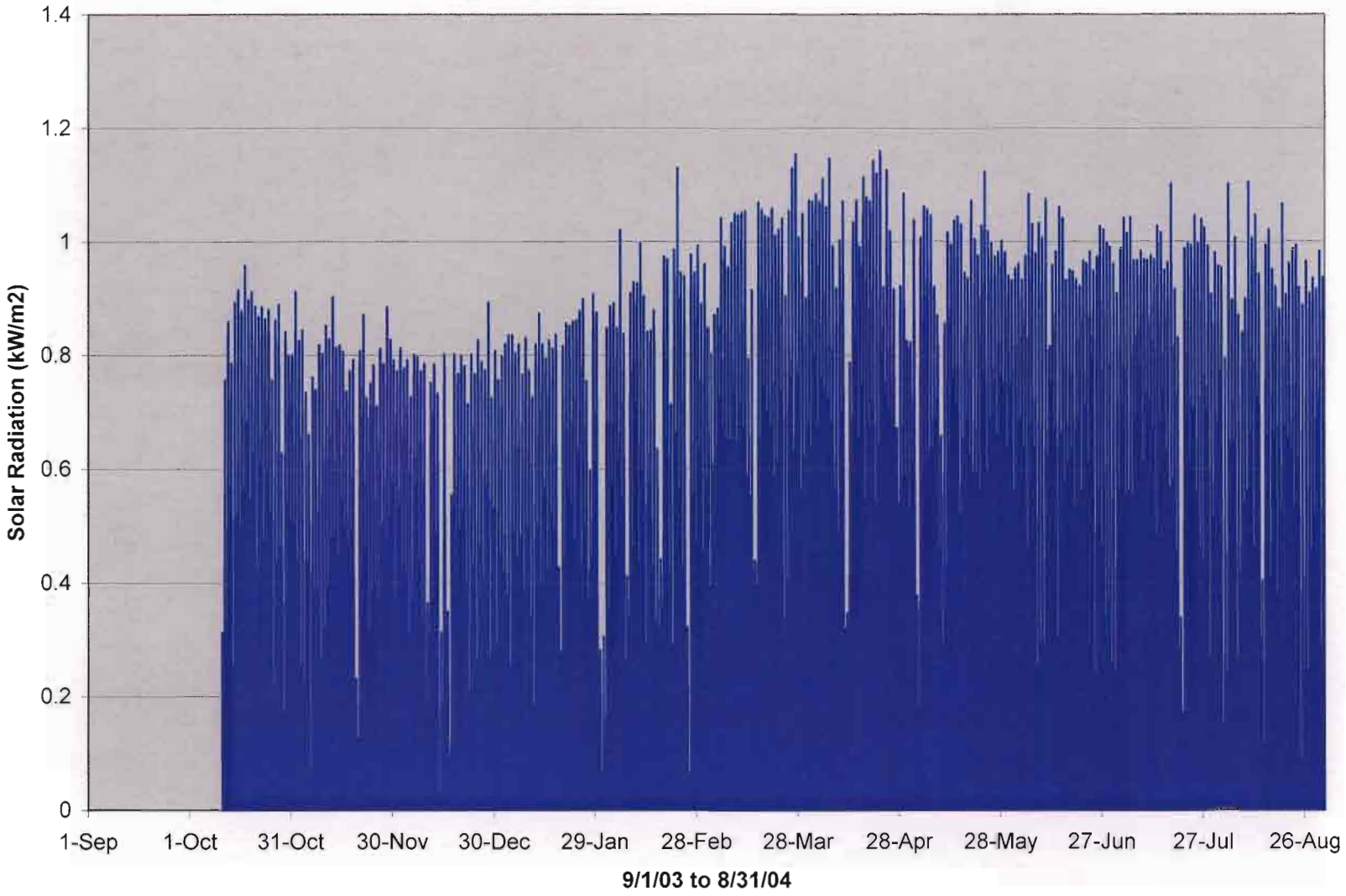
Graph 9.4A: Kiehl Canal Monitoring Station Wind Speed



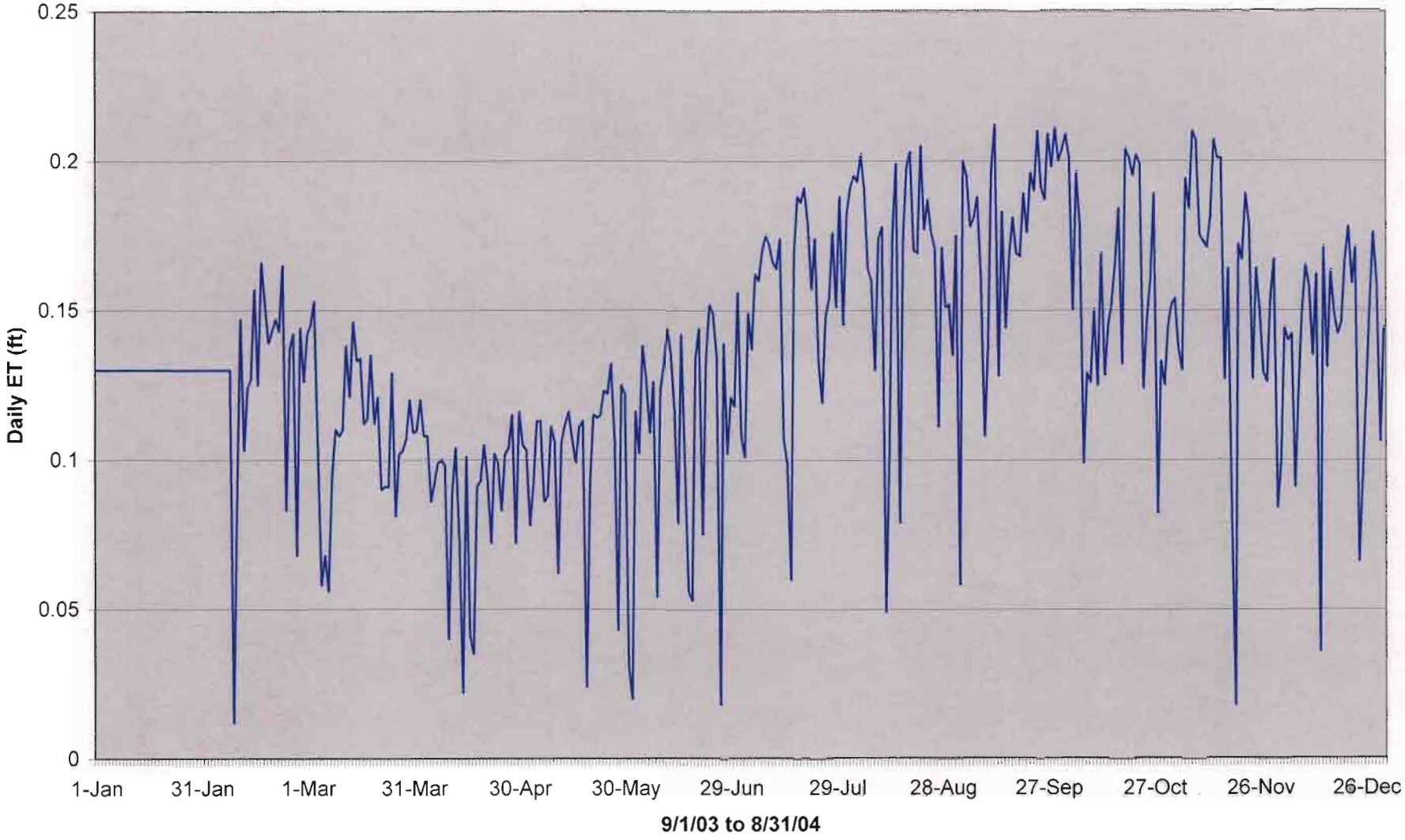
Graph 9.5A: Kiehl Canal Monitoring Station Rain



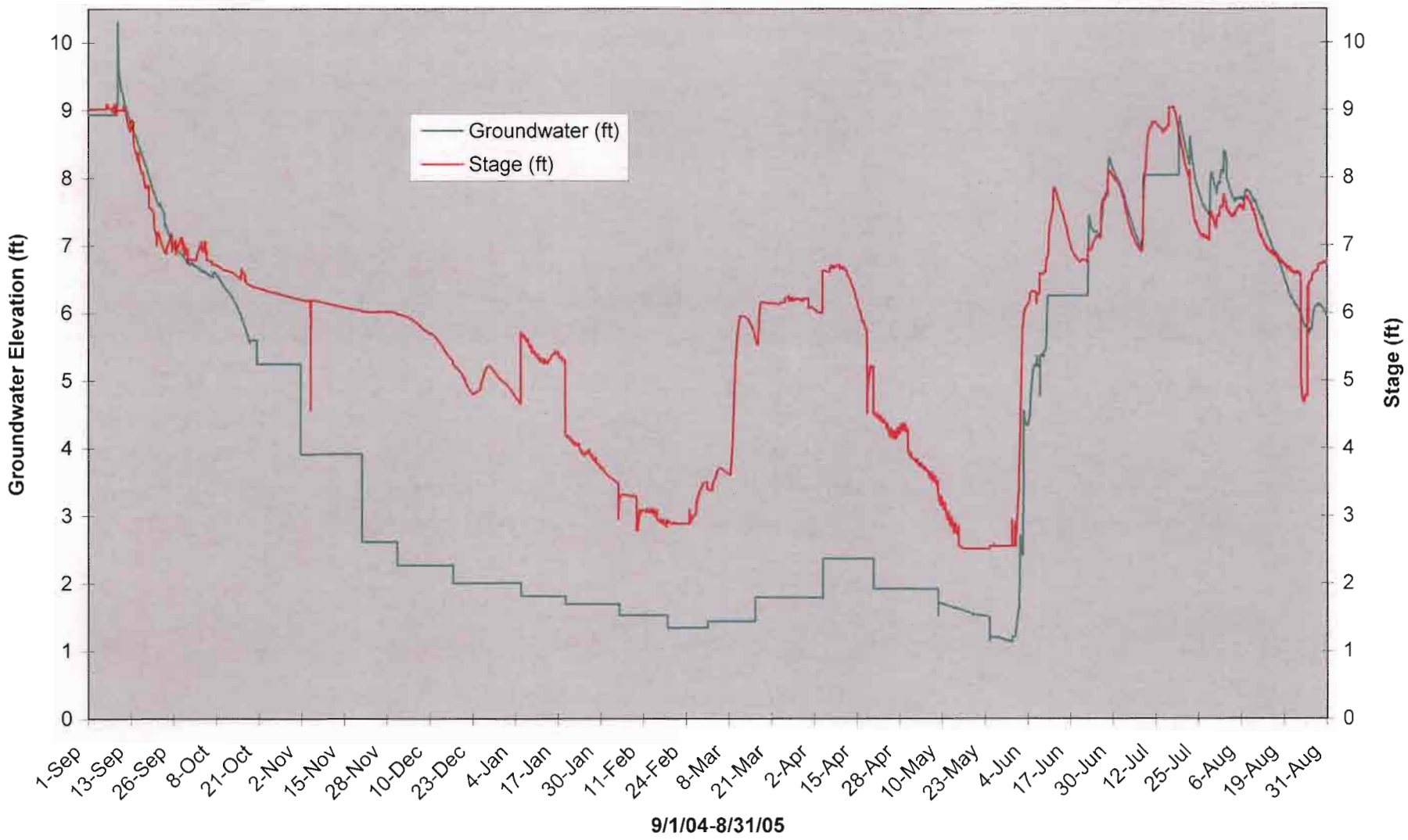
Graph 9.6A: Kiehl Canal Monitoring Station Solar Radiation



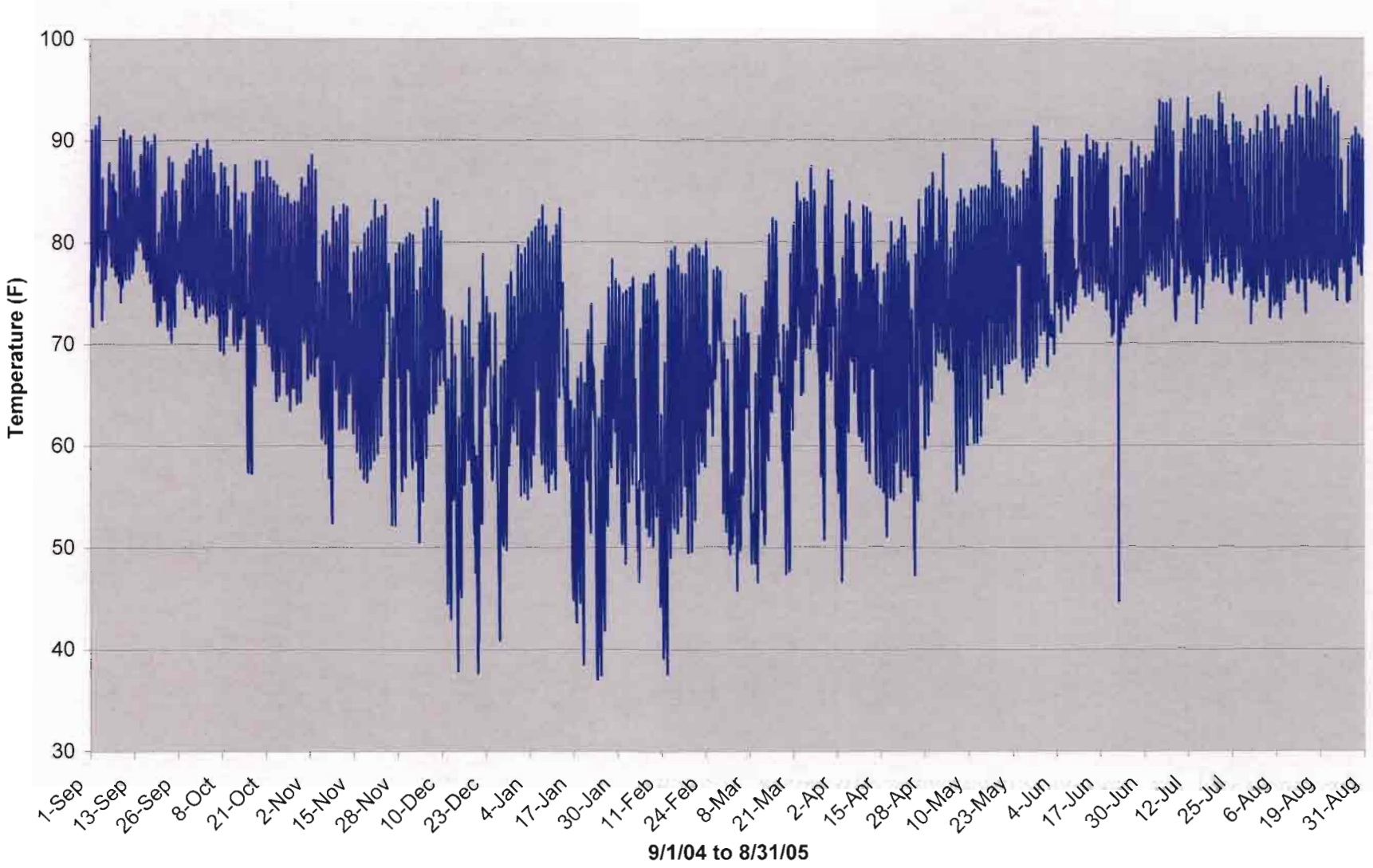
Graph 9.7A: Kiehl Canal Monitoring Station Evapotranspiration



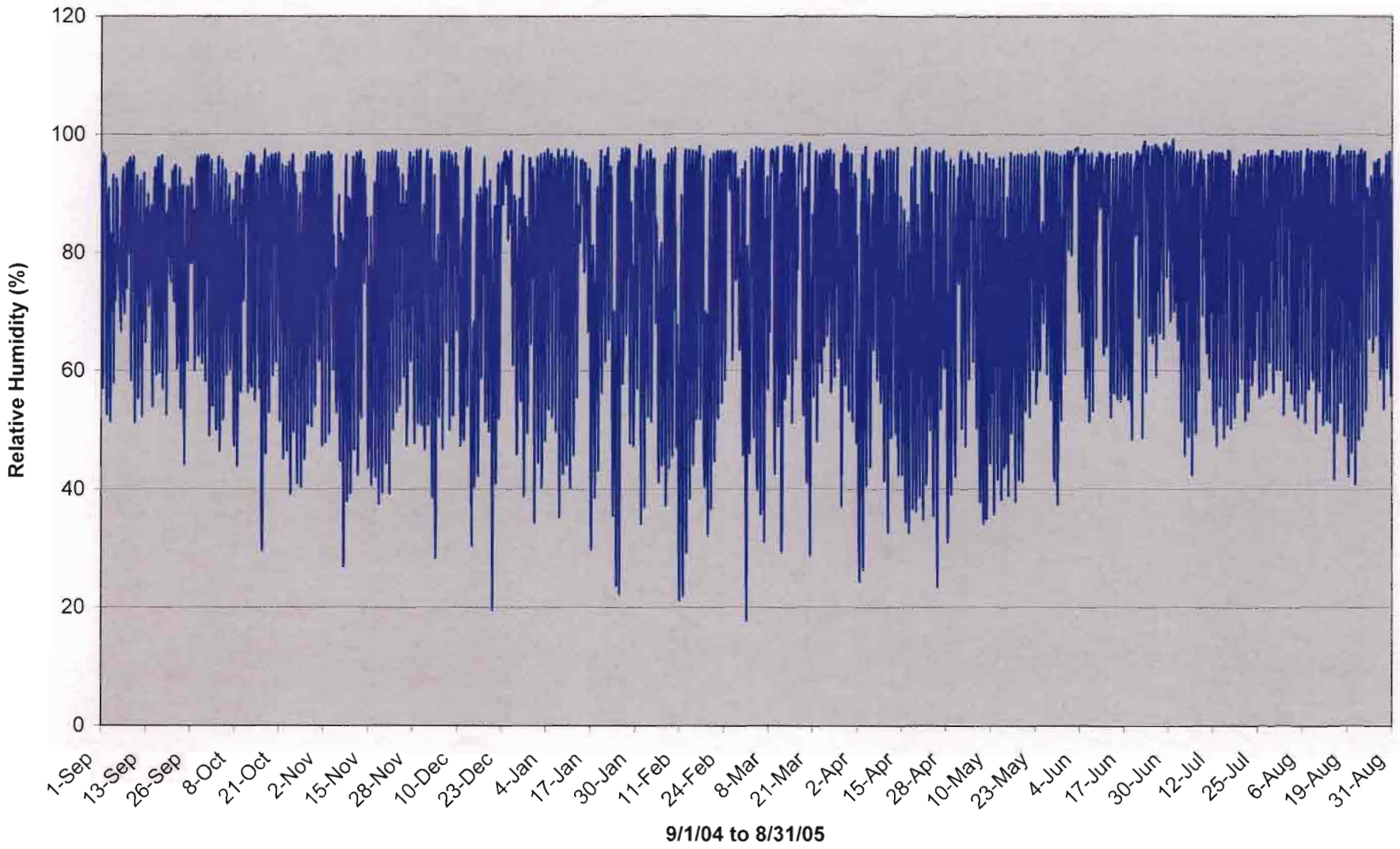
Graph 9.1B: Kiehl Canal Monitoring Station Stage\Groundwater Elevation vs Time



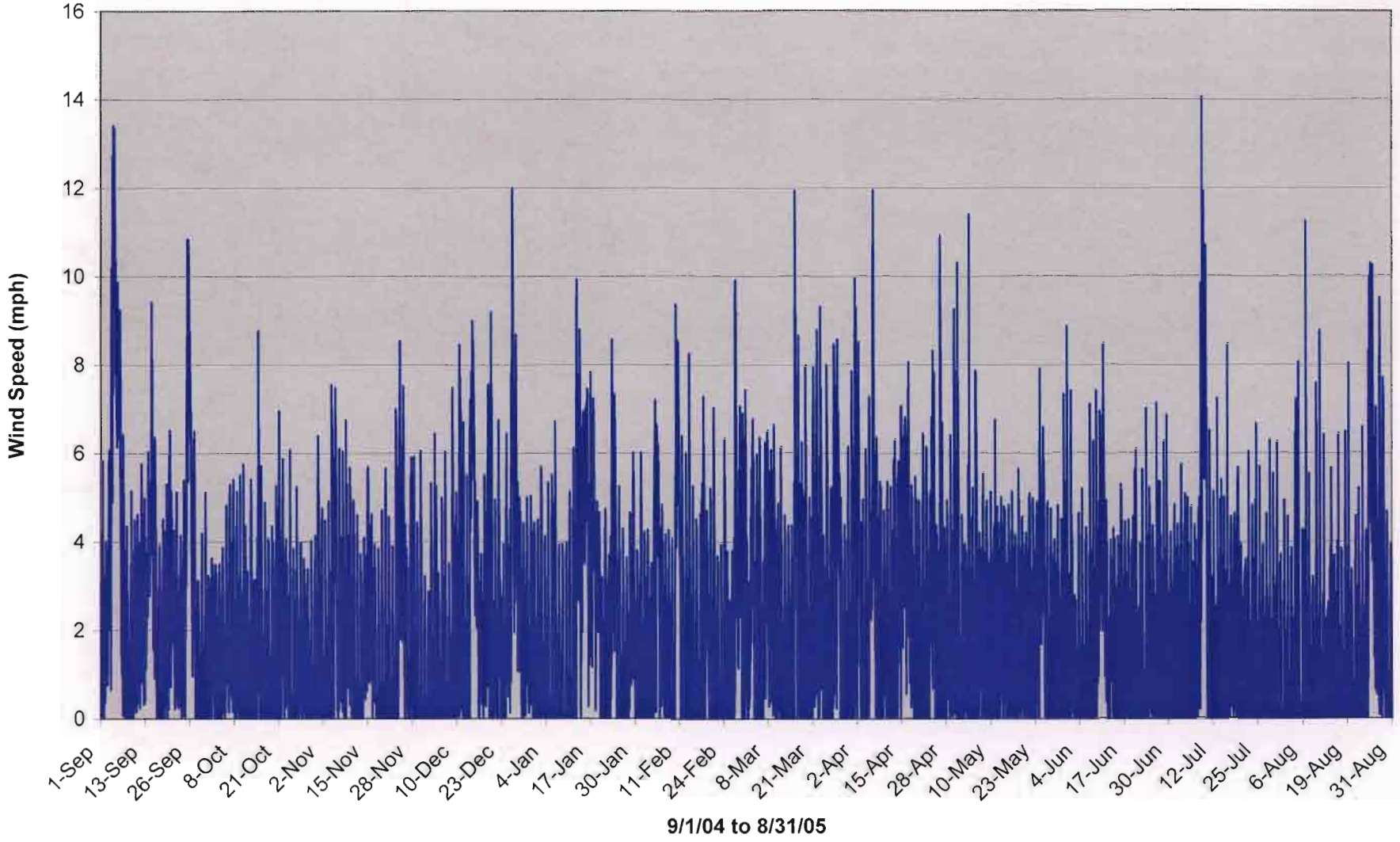
Graph 9.2B: Kiehl Canal Monitoring Station Air Temperature



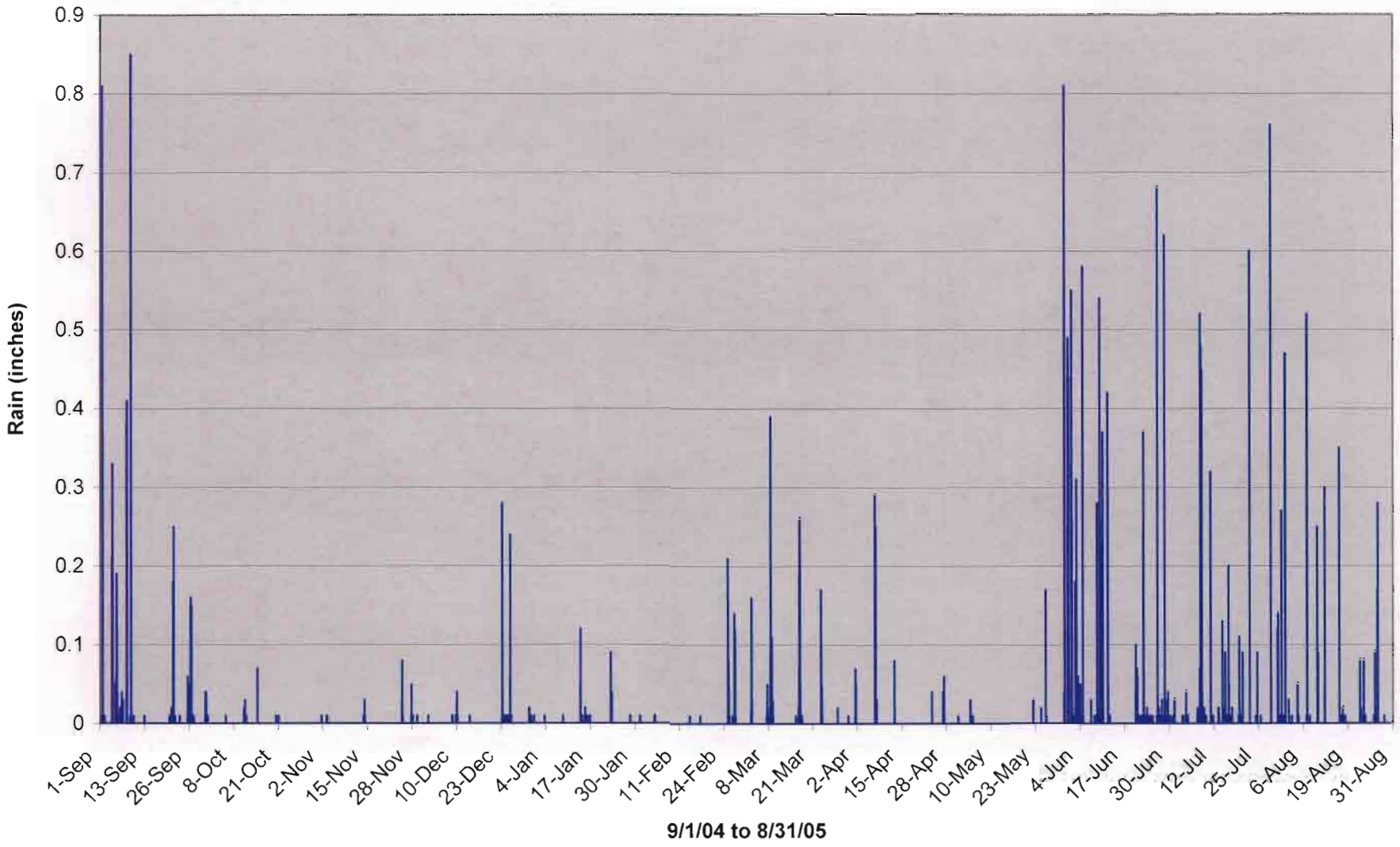
Graph 9.3B: Kiehl Weather Station Relative Humidity



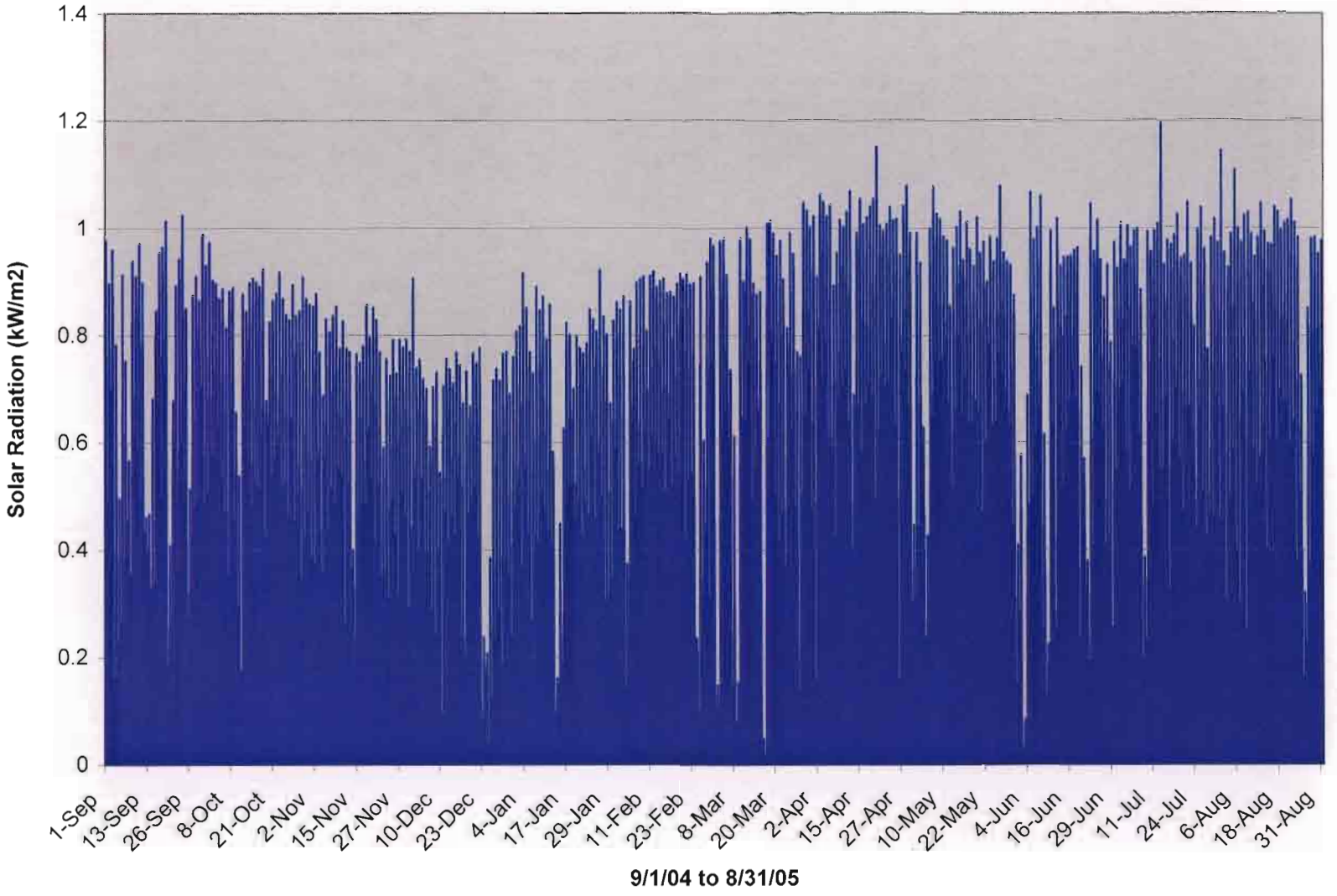
Graph 9.4B: Kiehl Canal Monitoring Station Wind Speed



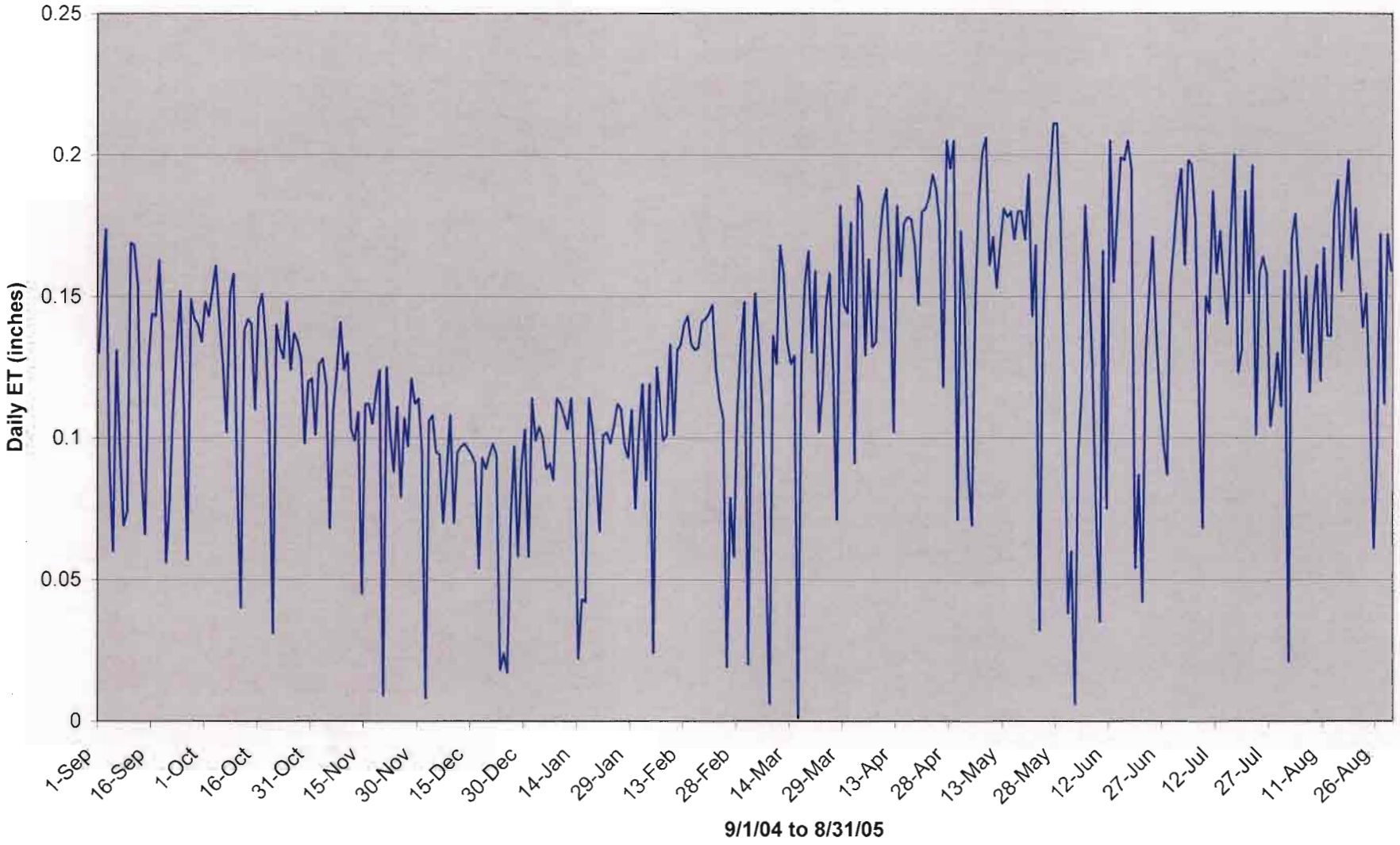
Graph 9.5B: Kiehl Canal Monitoring Station Rain



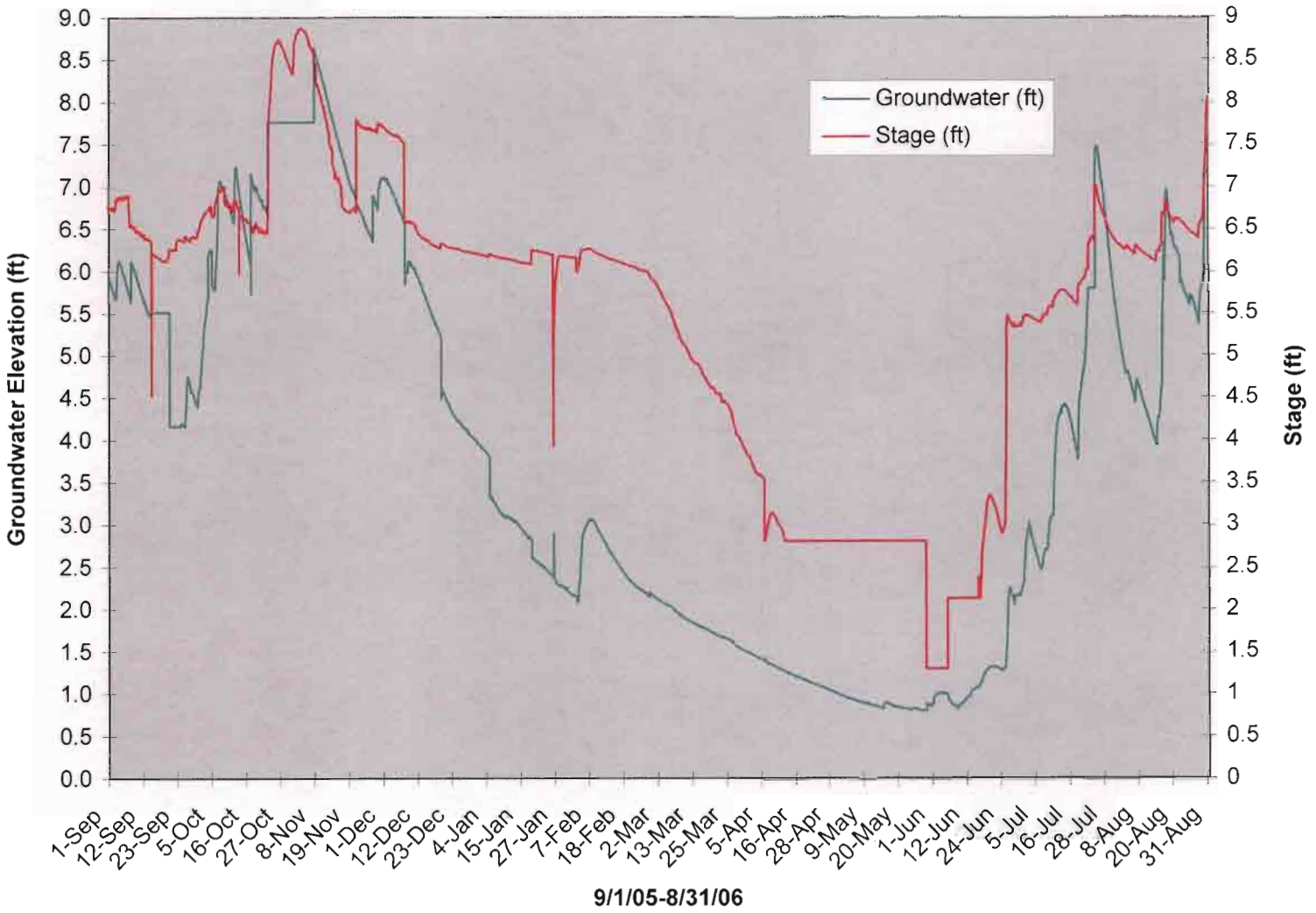
Graph 9.6B: Kiehl Canal Monitoring Station Solar Radiation



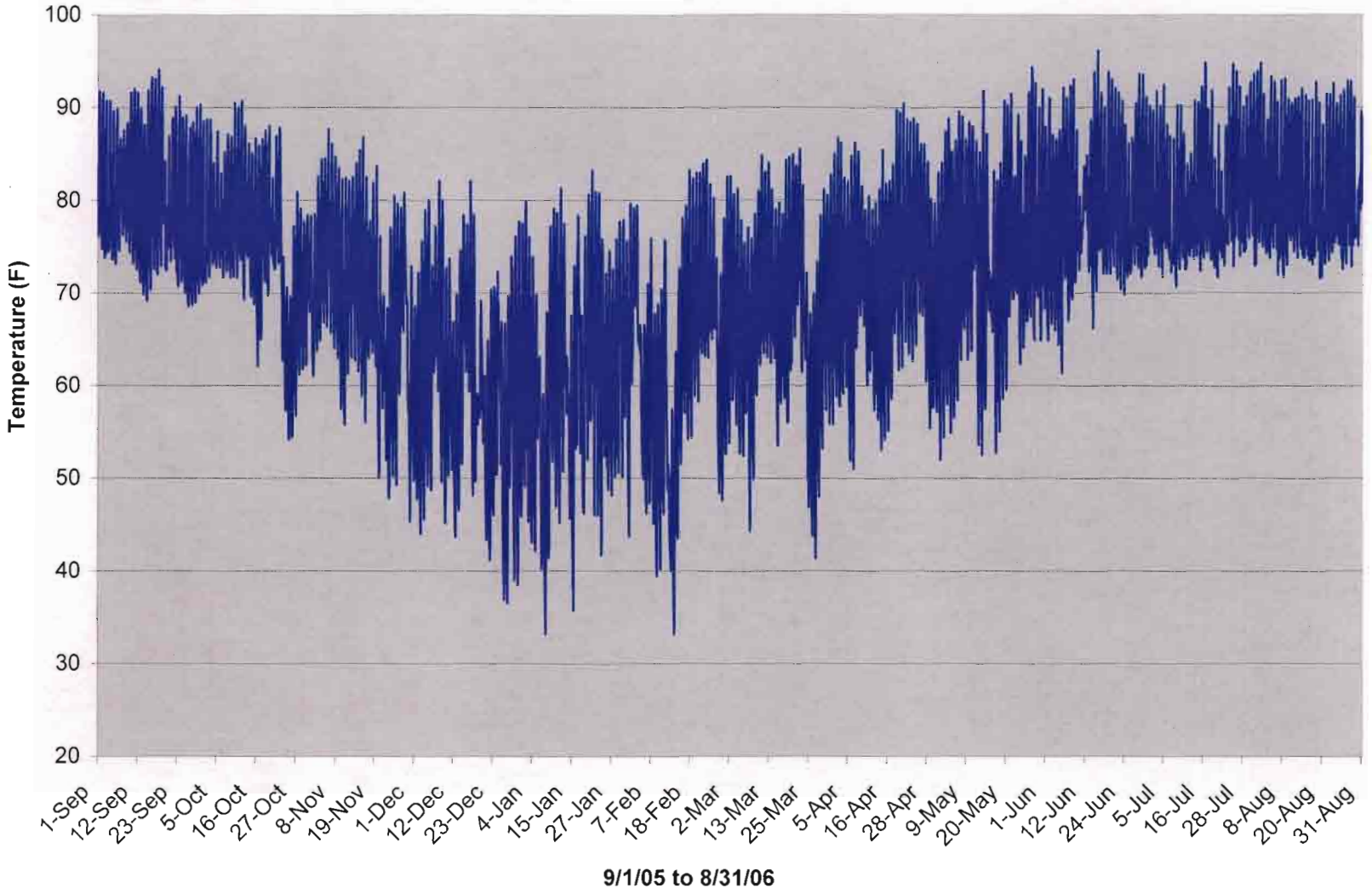
Graph 9.7B: Kiehl Canal Monitoring Station Evapotranspiration



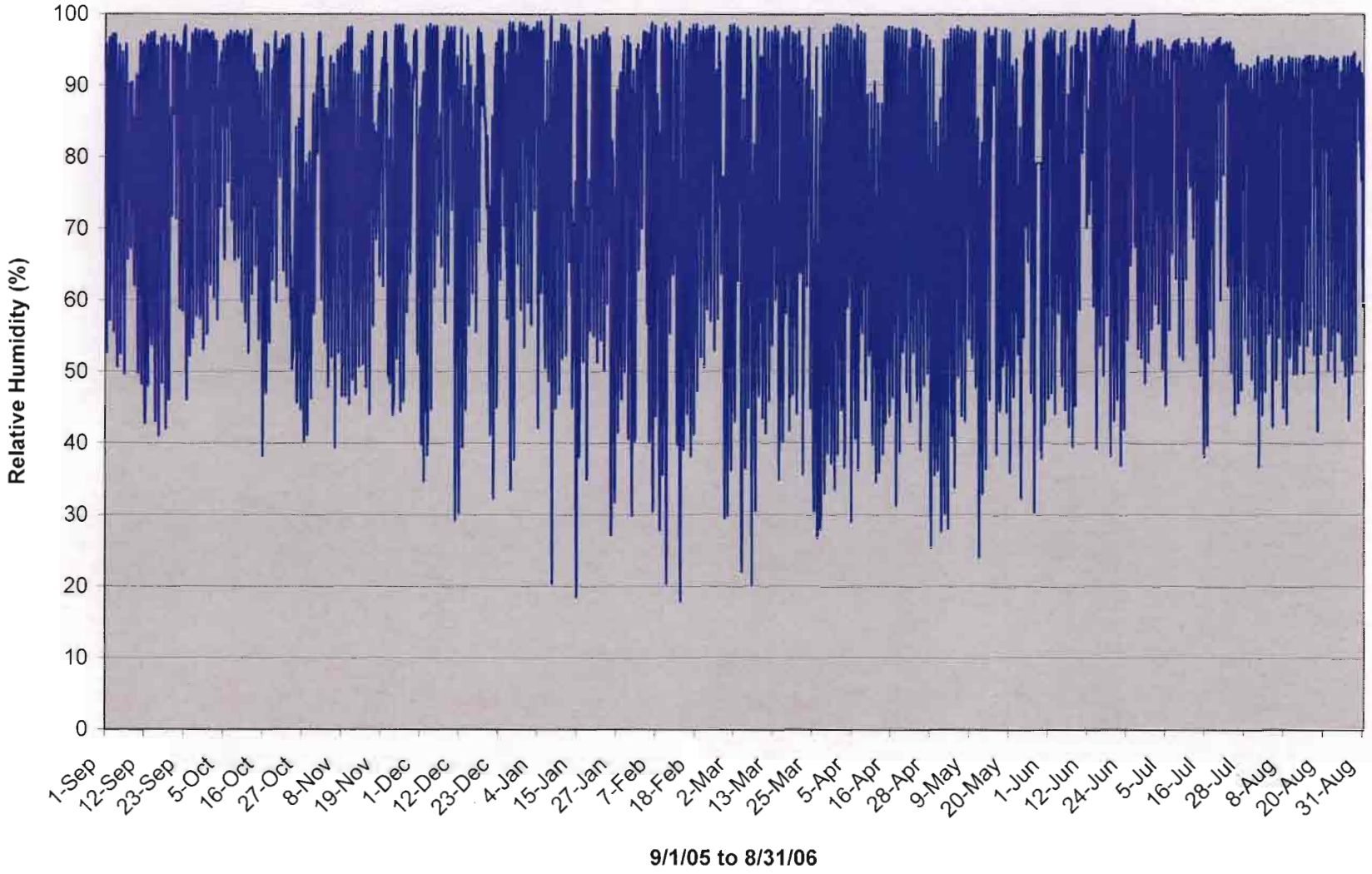
Graph 9.1C: Kiehl Canal Monitoring Station Stage\Groundwater Elevation vs Time



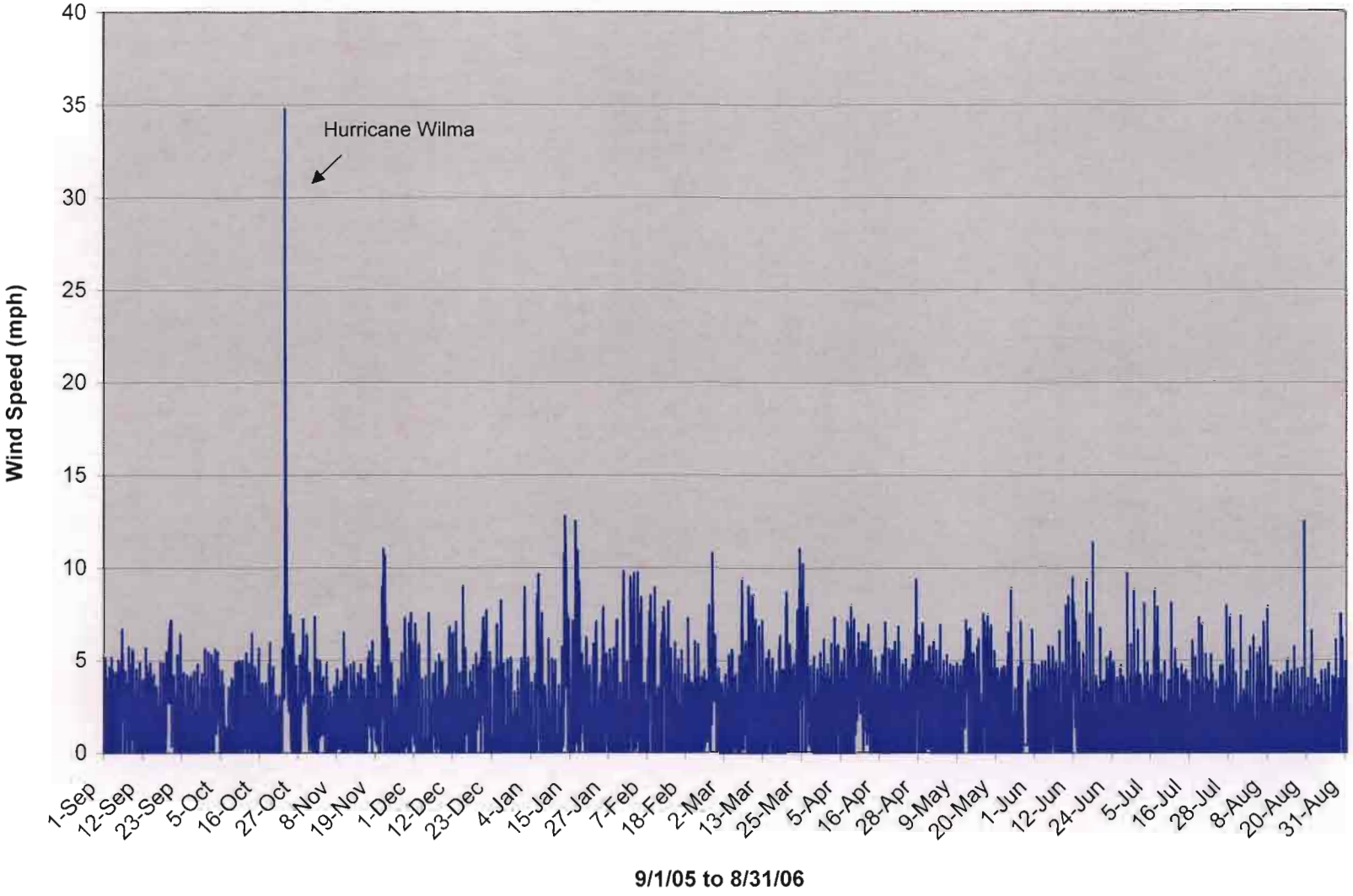
Graph 9.2C: Kiehl Canal Monitoring Station Air Temperature



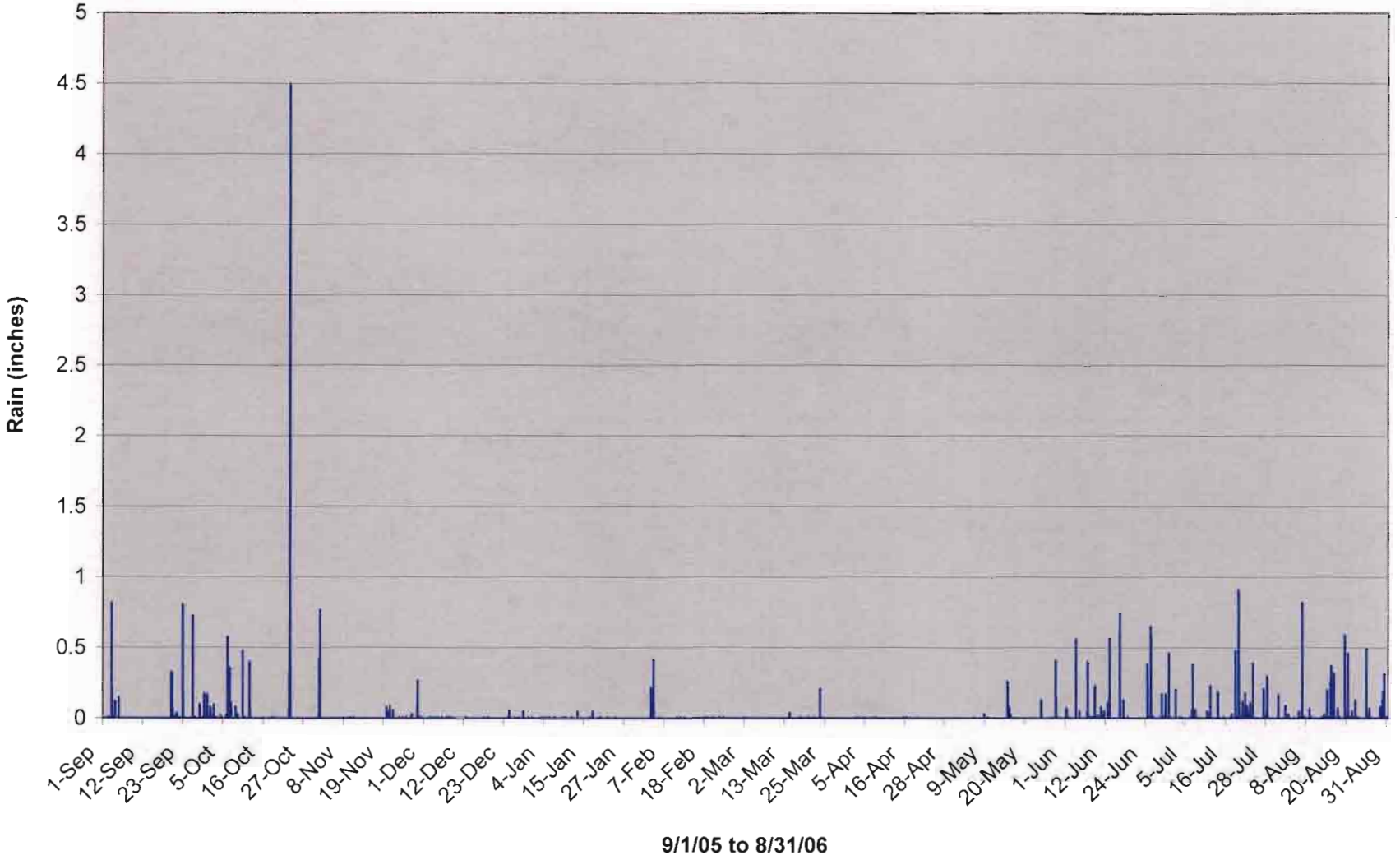
Graph 9.3C: Kiehl Weather Station Relative Humidity



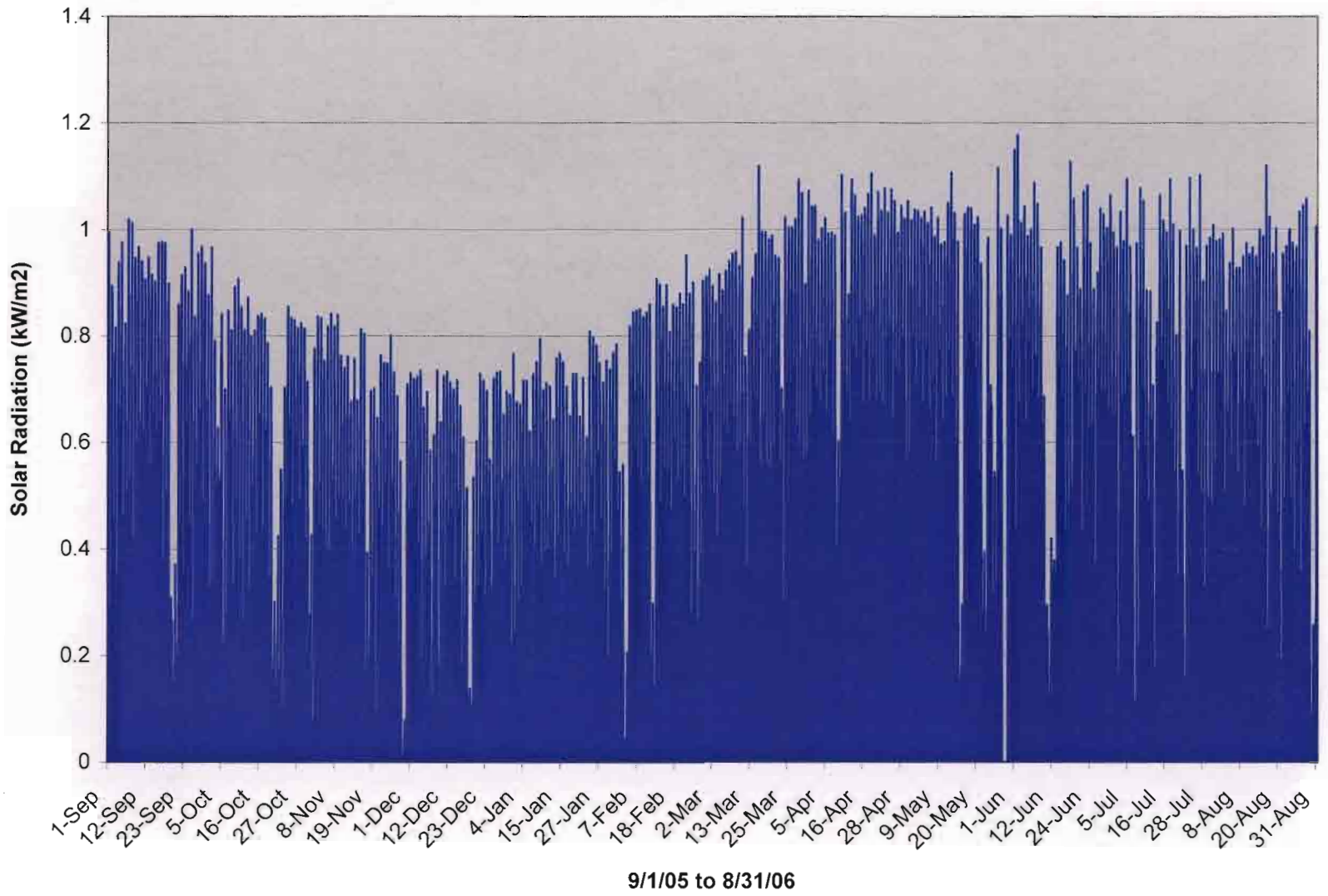
Graph 9.4C: Kiehl Canal Monitoring Station Wind Speed



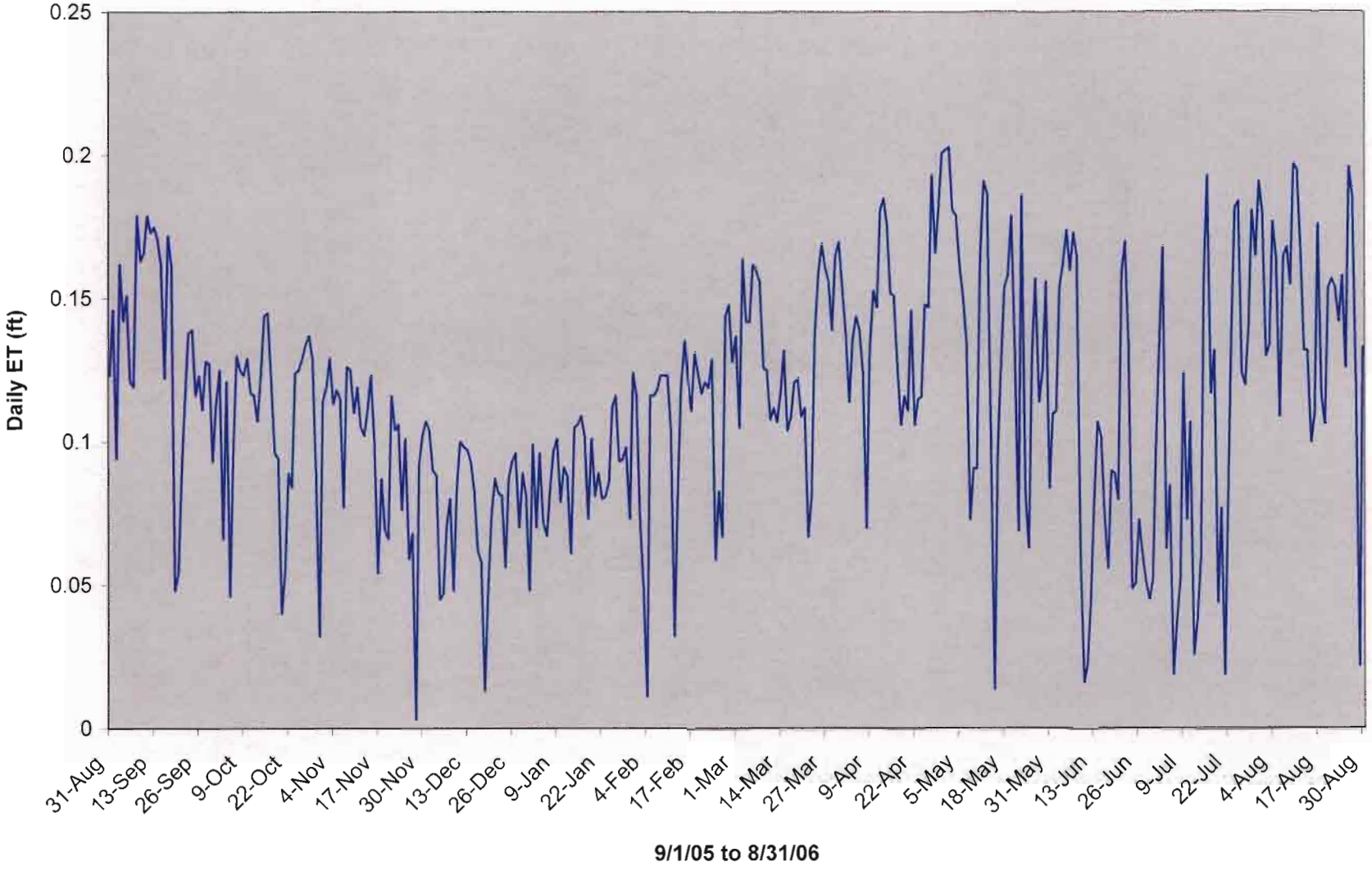
Graph 9.5C: Kiehl Canal Monitoring Station Rain



Graph 9.6C: Kiehl Canal Monitoring Station Solar Radiation

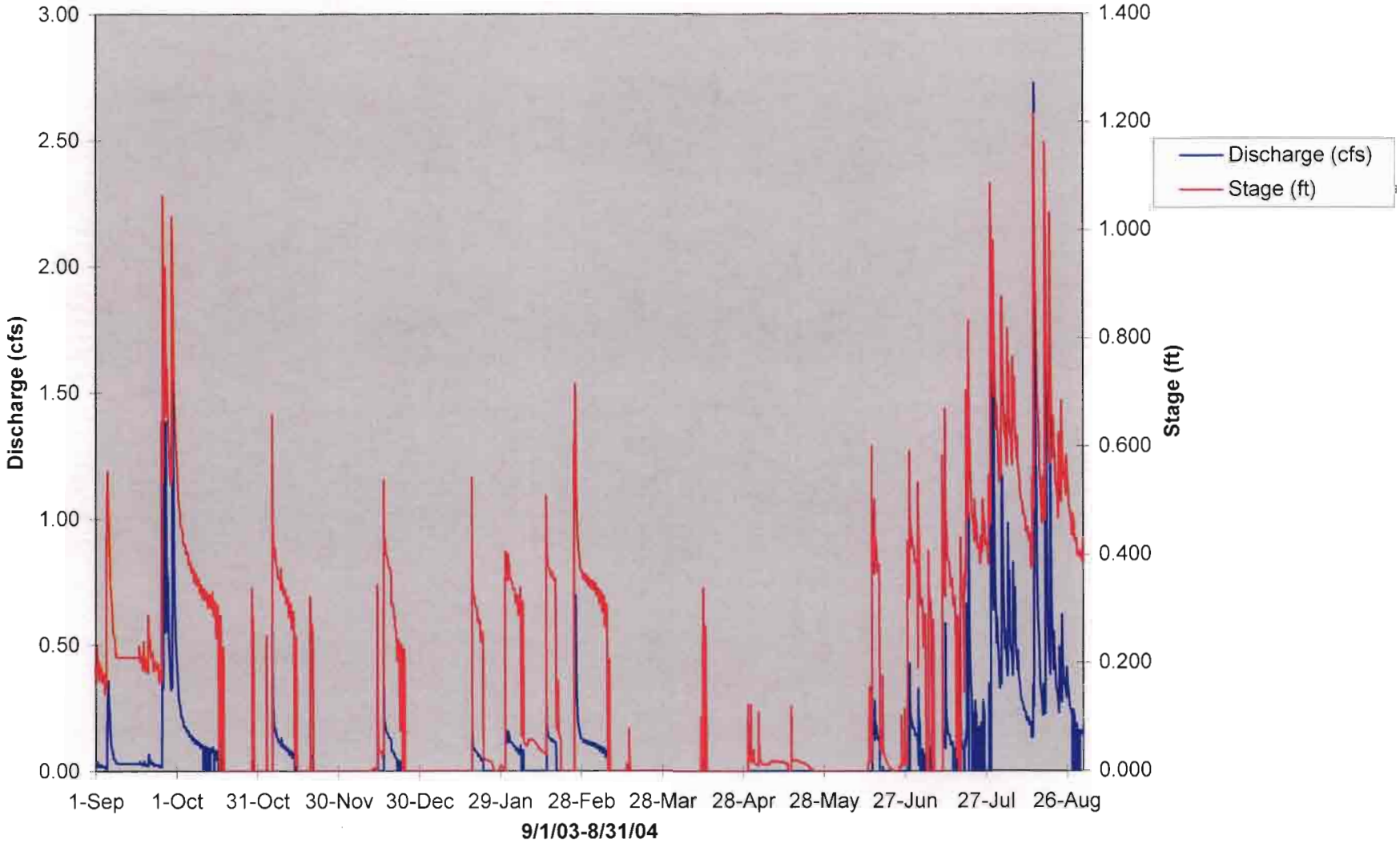


Graph 9.7C: Kiehl Canal Monitoring Station Evapotranspiration

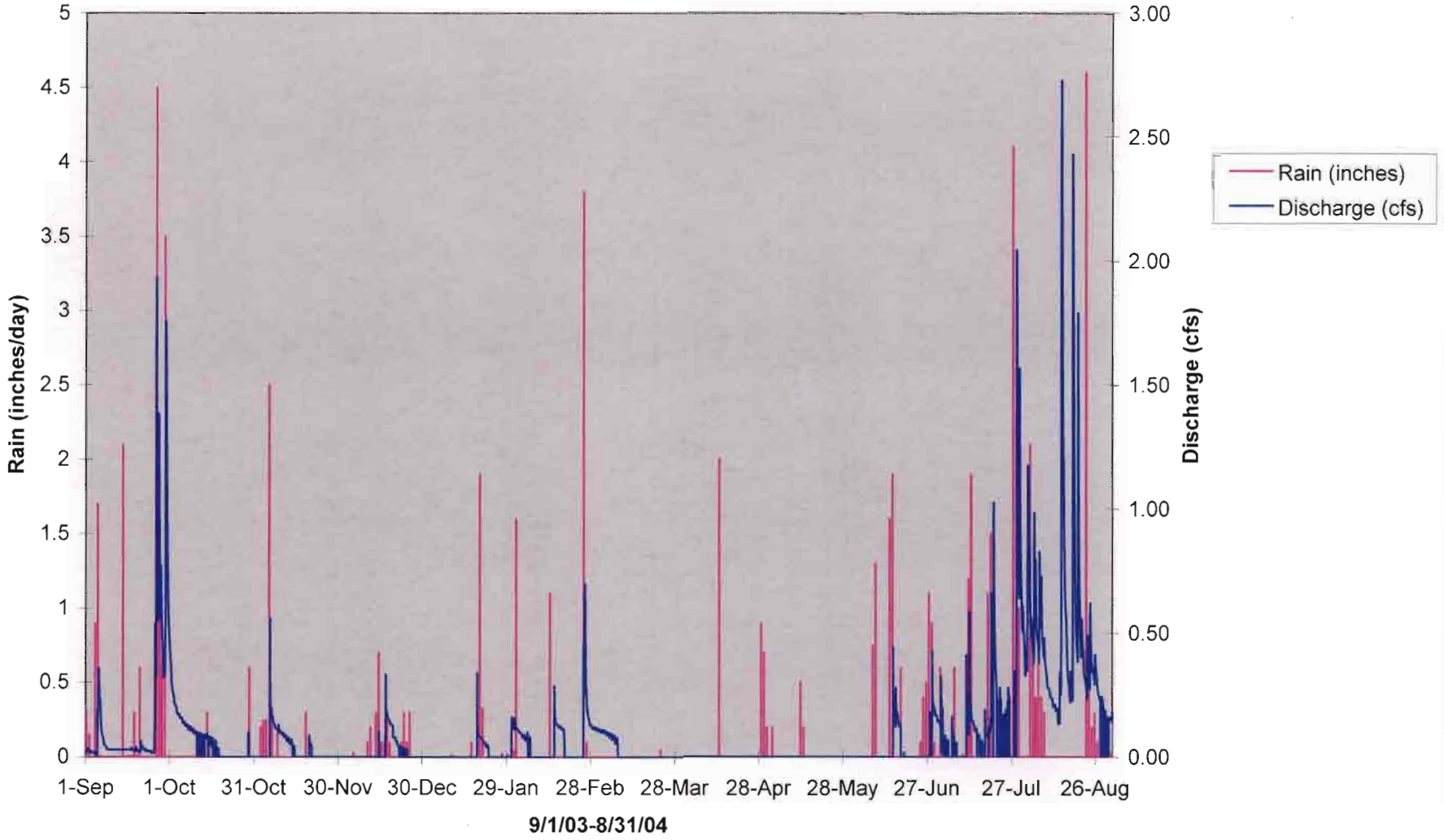


A.10 KORESHAN STATE PARK GRAPHS

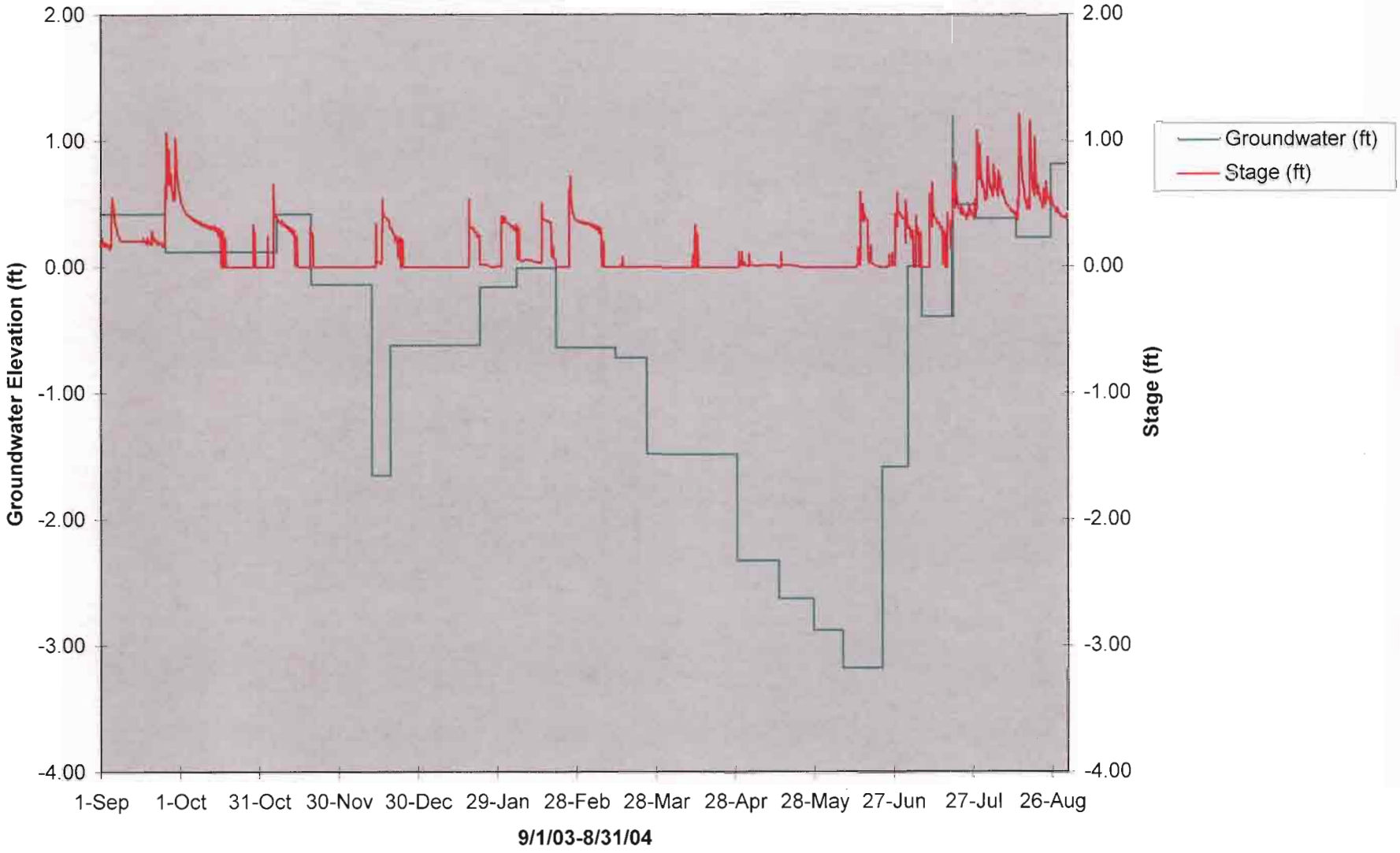
Graph 10.1A: Koreshan State Park Monitoring Station Stage\Discharge vs Time



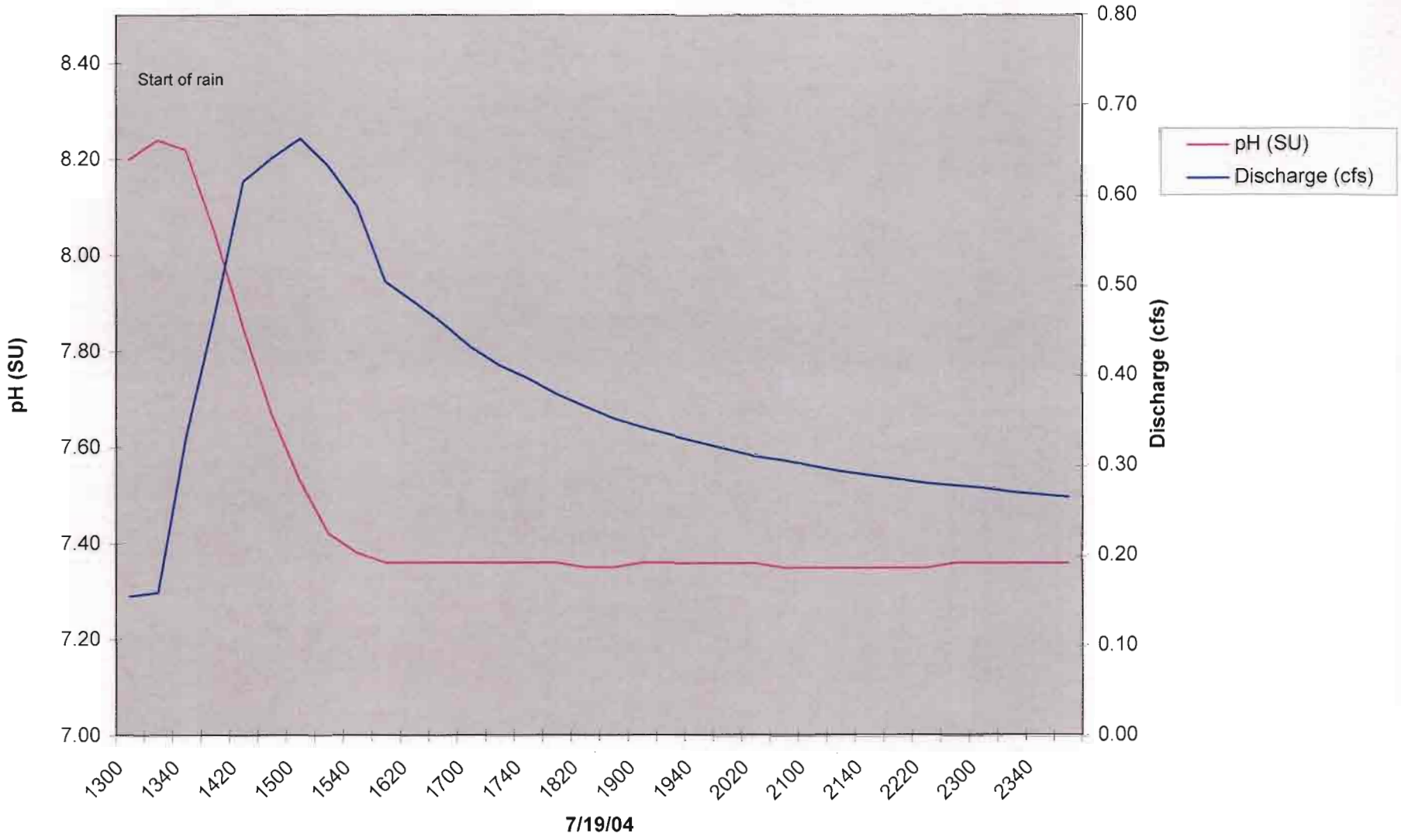
Graph 10.2A: Koreshan State Park Monitoring Station Rain\Discharge vs Time



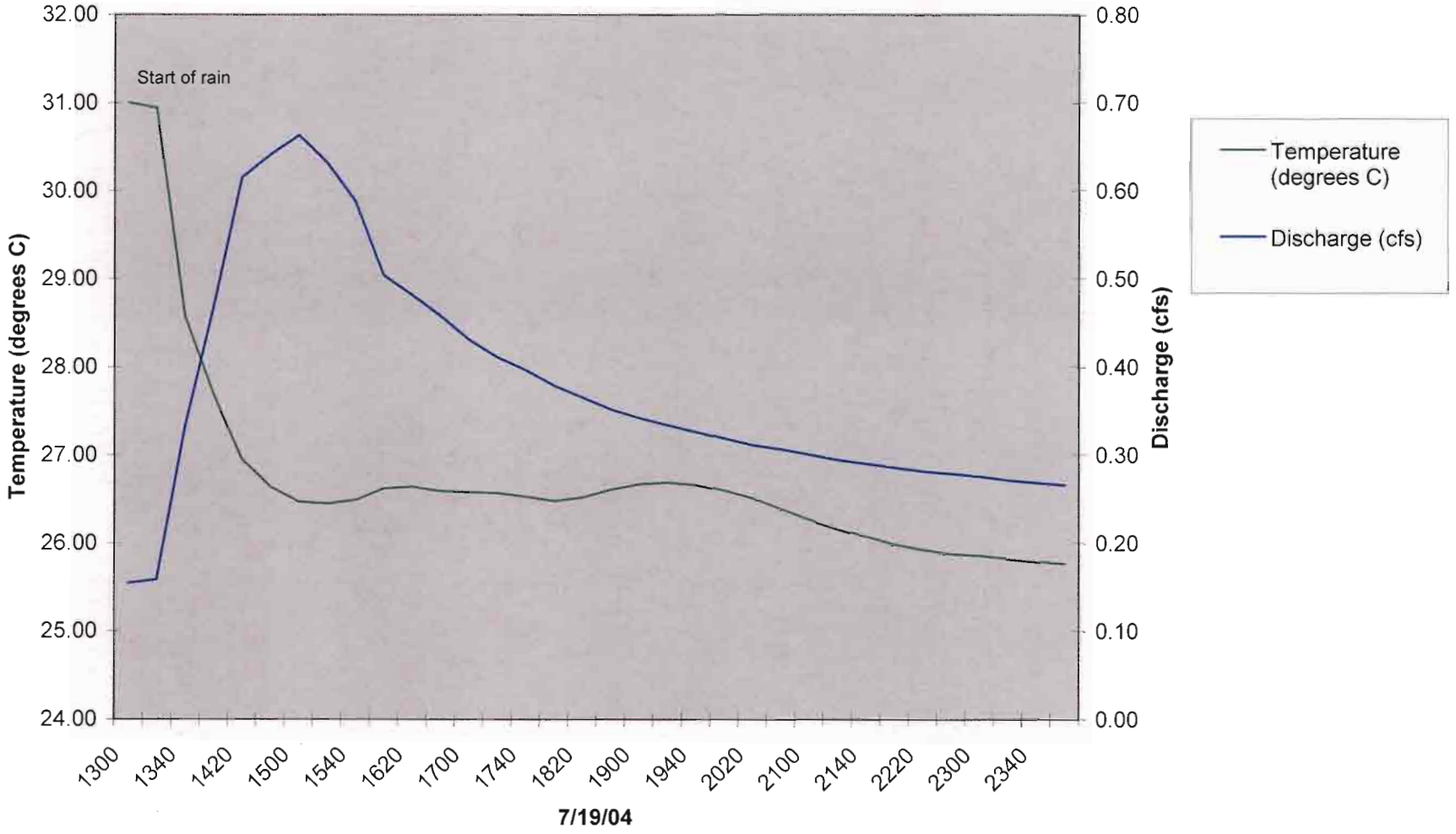
Graph 10.3A: Koreshan State Park Monitoring Station Groundwater Elevation\Stage vs.Time



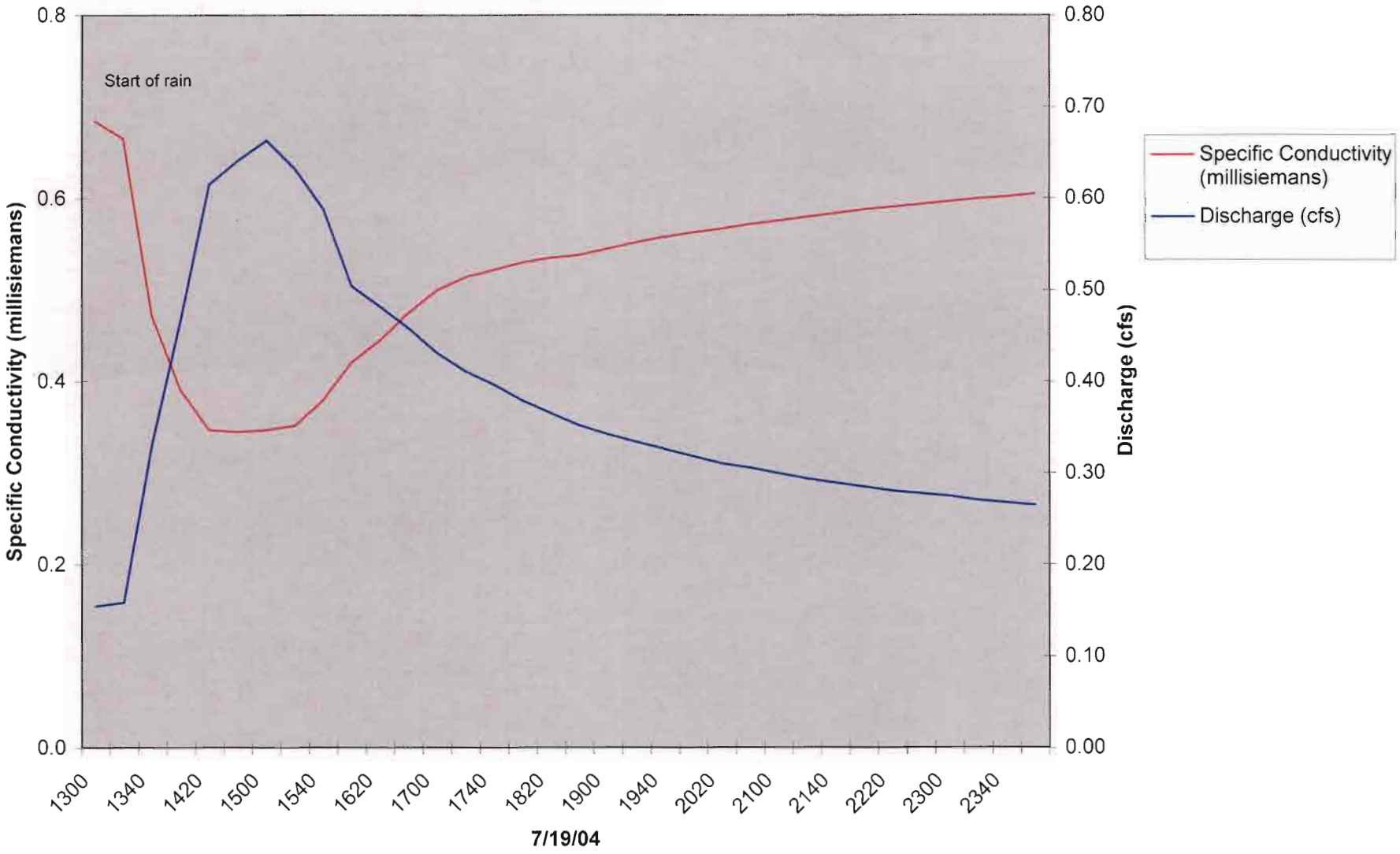
Graph 10.4A: Koreshan Monitoring Station pH vs Time 7-19-04 Rain Event



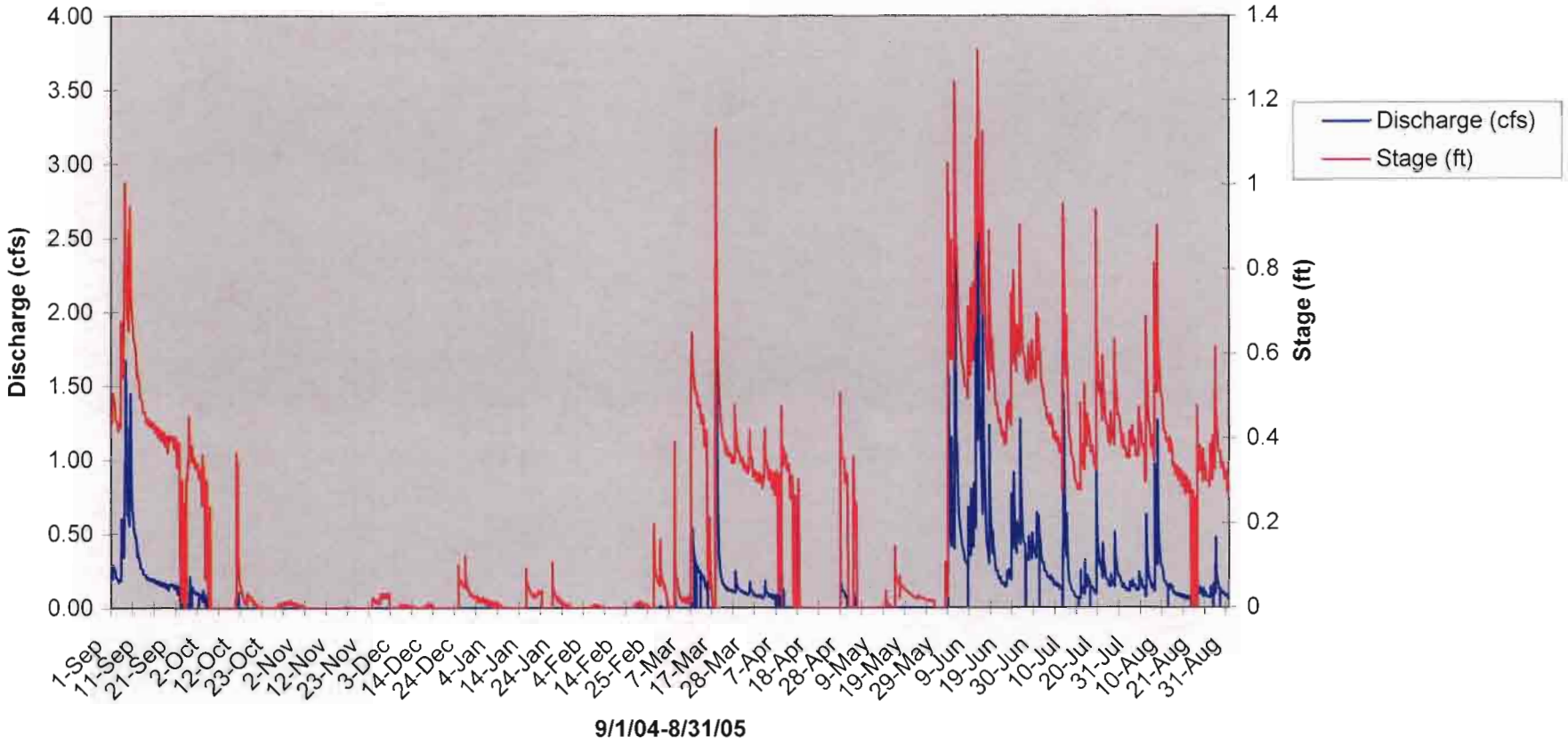
Graph 10.5A: Koreshan Monitoring Station Water Temperature vs Time



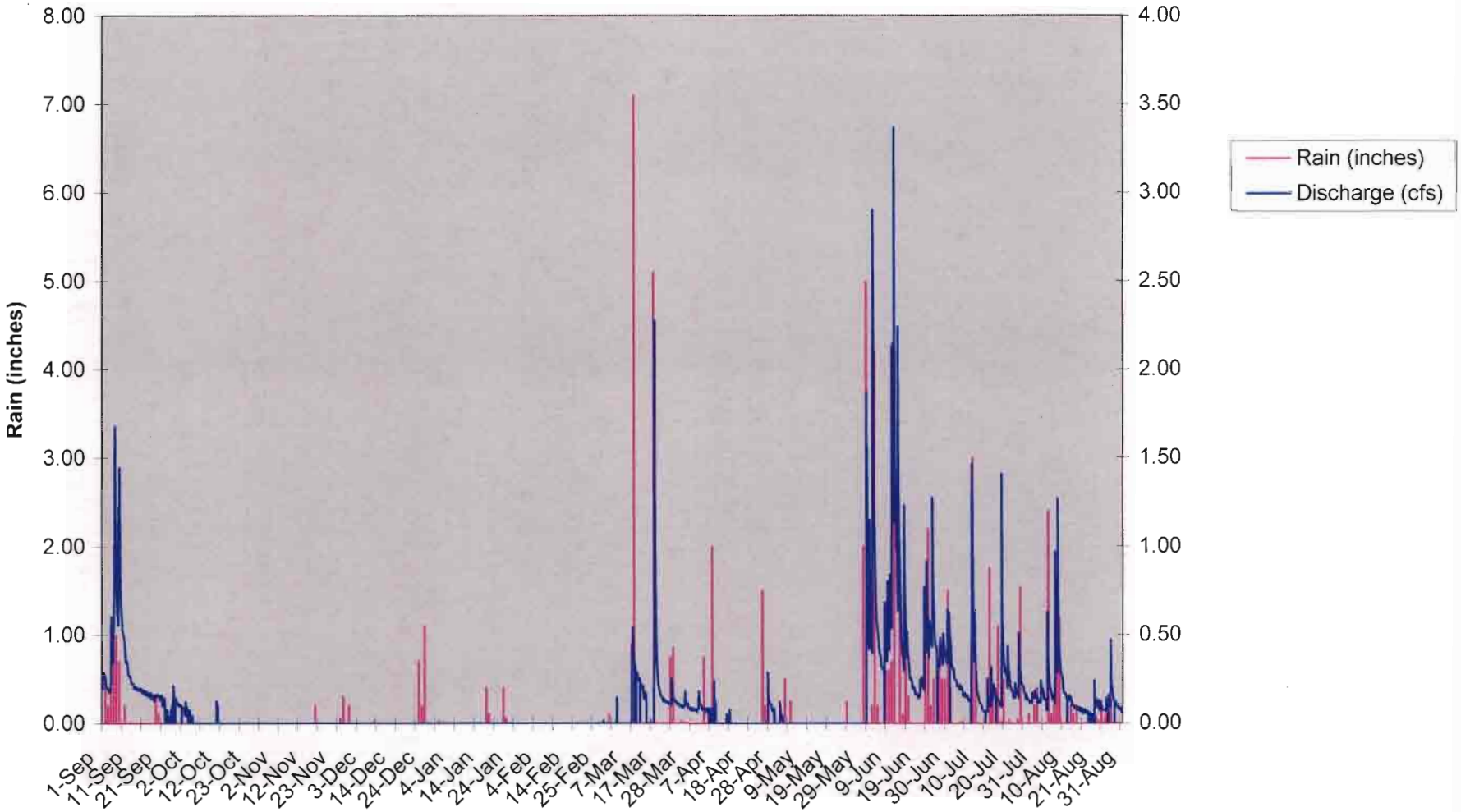
Graph 10.6A: Koreshan Monitoring Station Conductivity vs Time 7-19-04 Rain Event



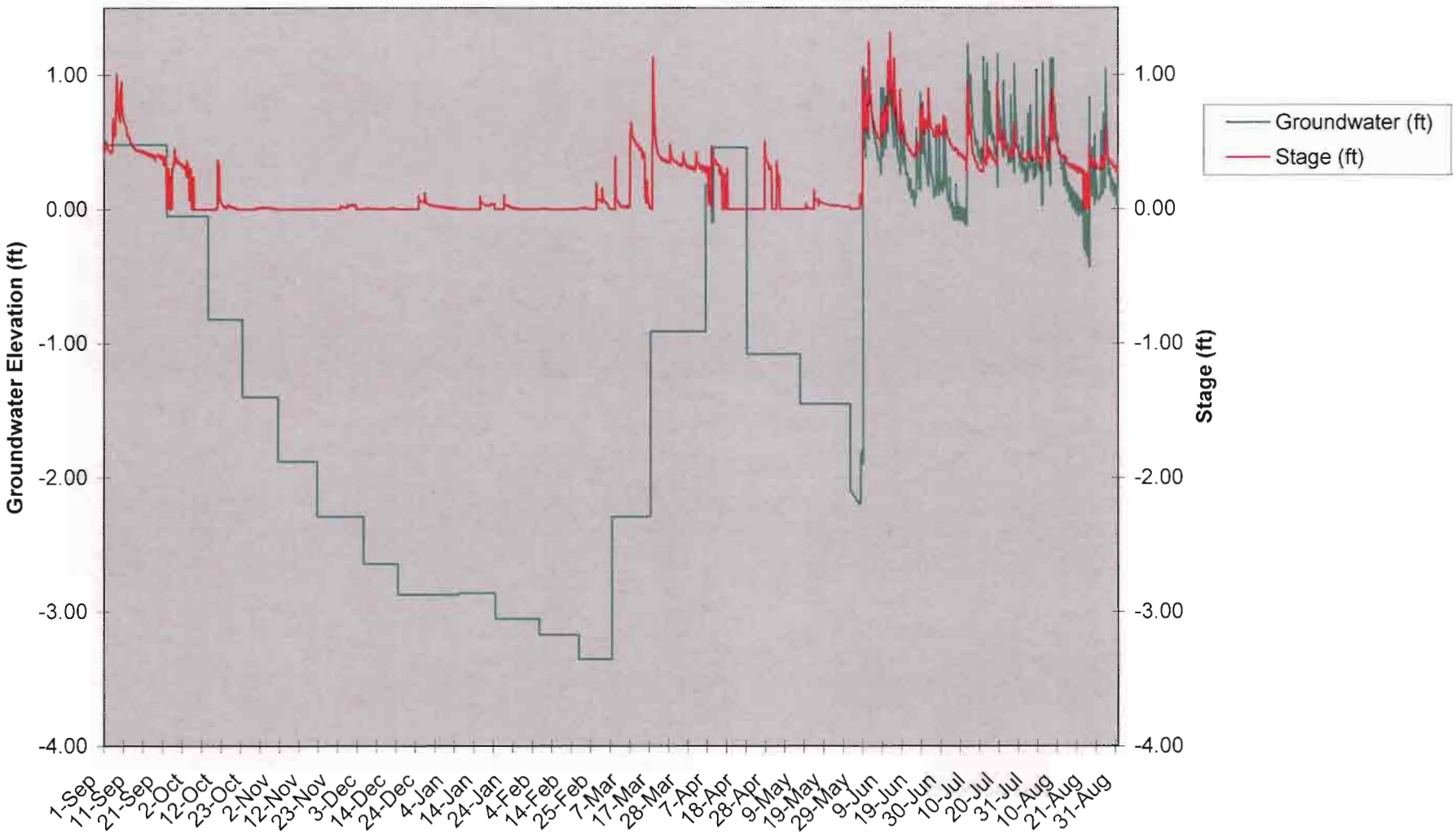
Graph 10.1B: Koreshan State Park Monitoring Station Stage\Discharge vs Time



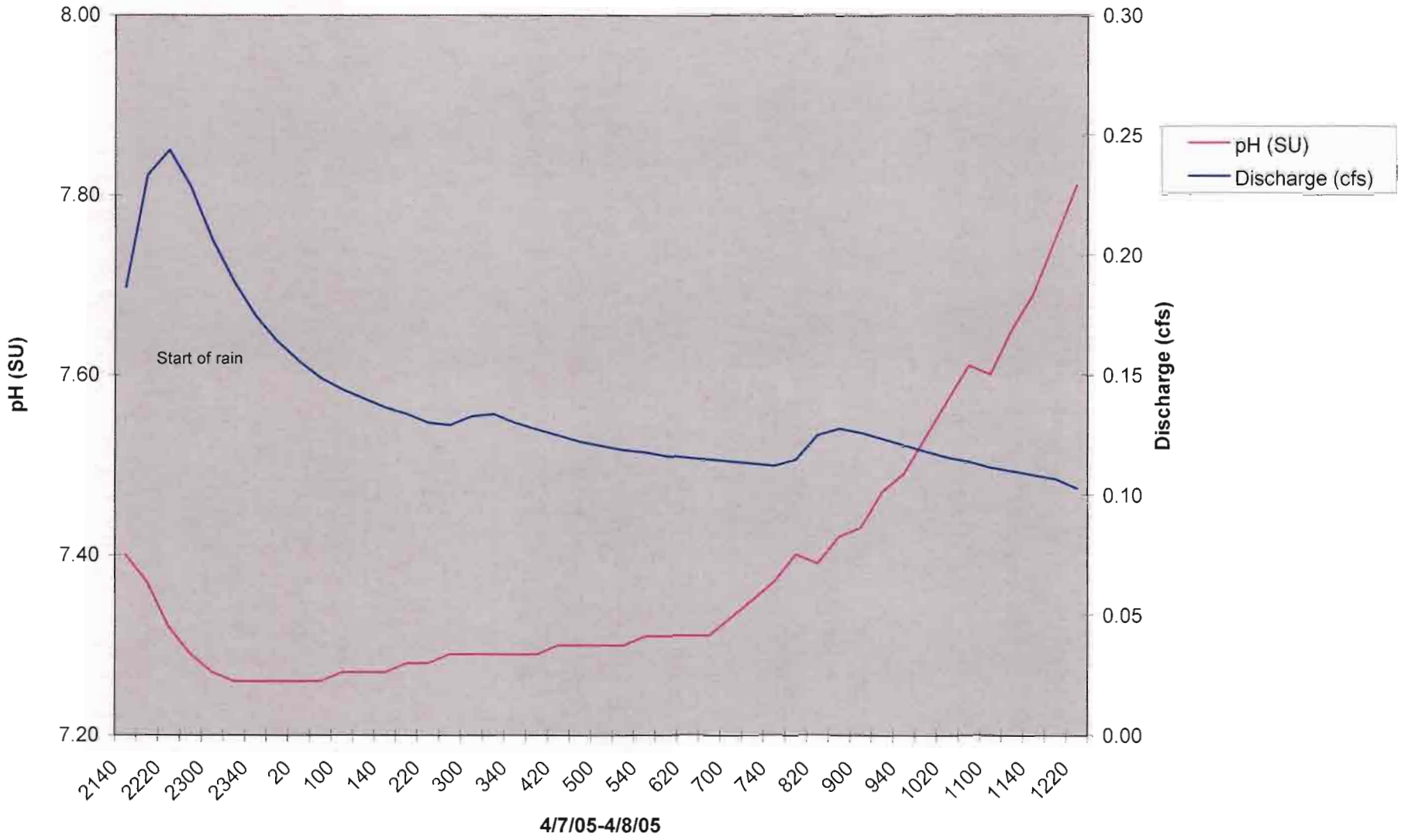
Graph 10.2B: Koreshan State Park Monitoring Station Rain\Discharge vs Time



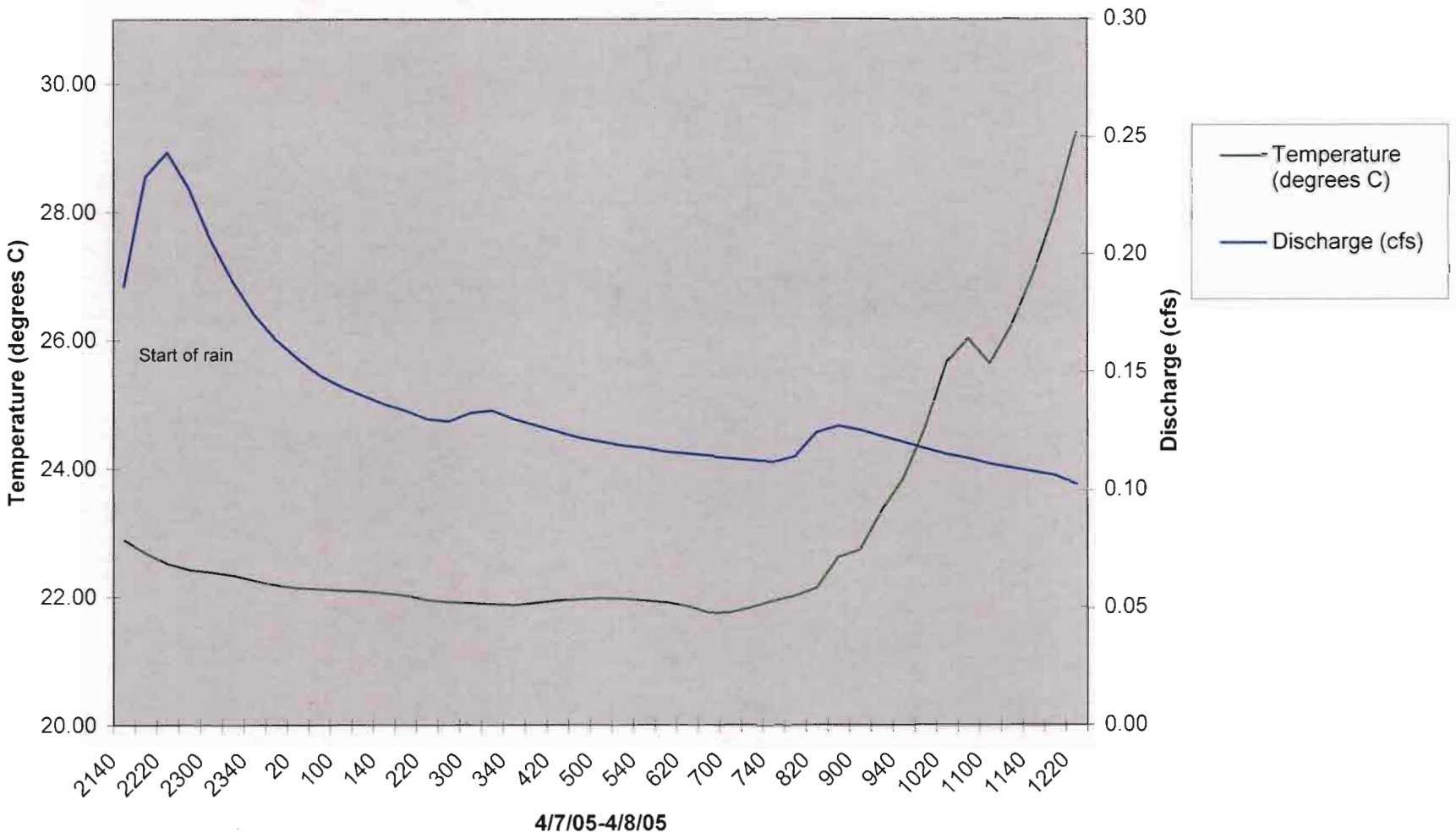
Graph 10.3B: Koreshan State Park Monitoring Station Groundwater Elevation\Stage vs.Time



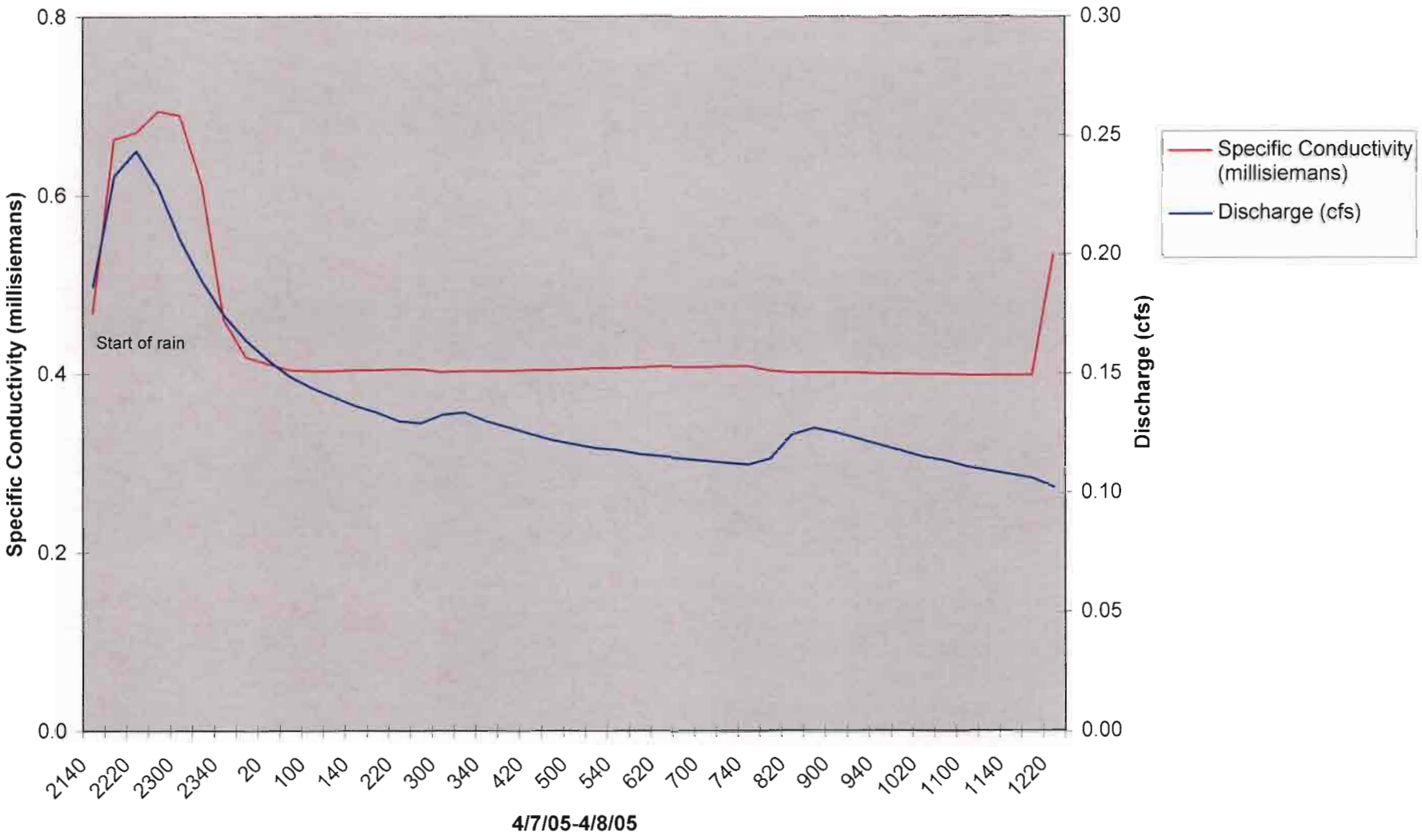
Graph 10.4B: Koreshan Monitoring Station pH/Discharge vs Time 4/7/05- 4/8/05 Rain Event



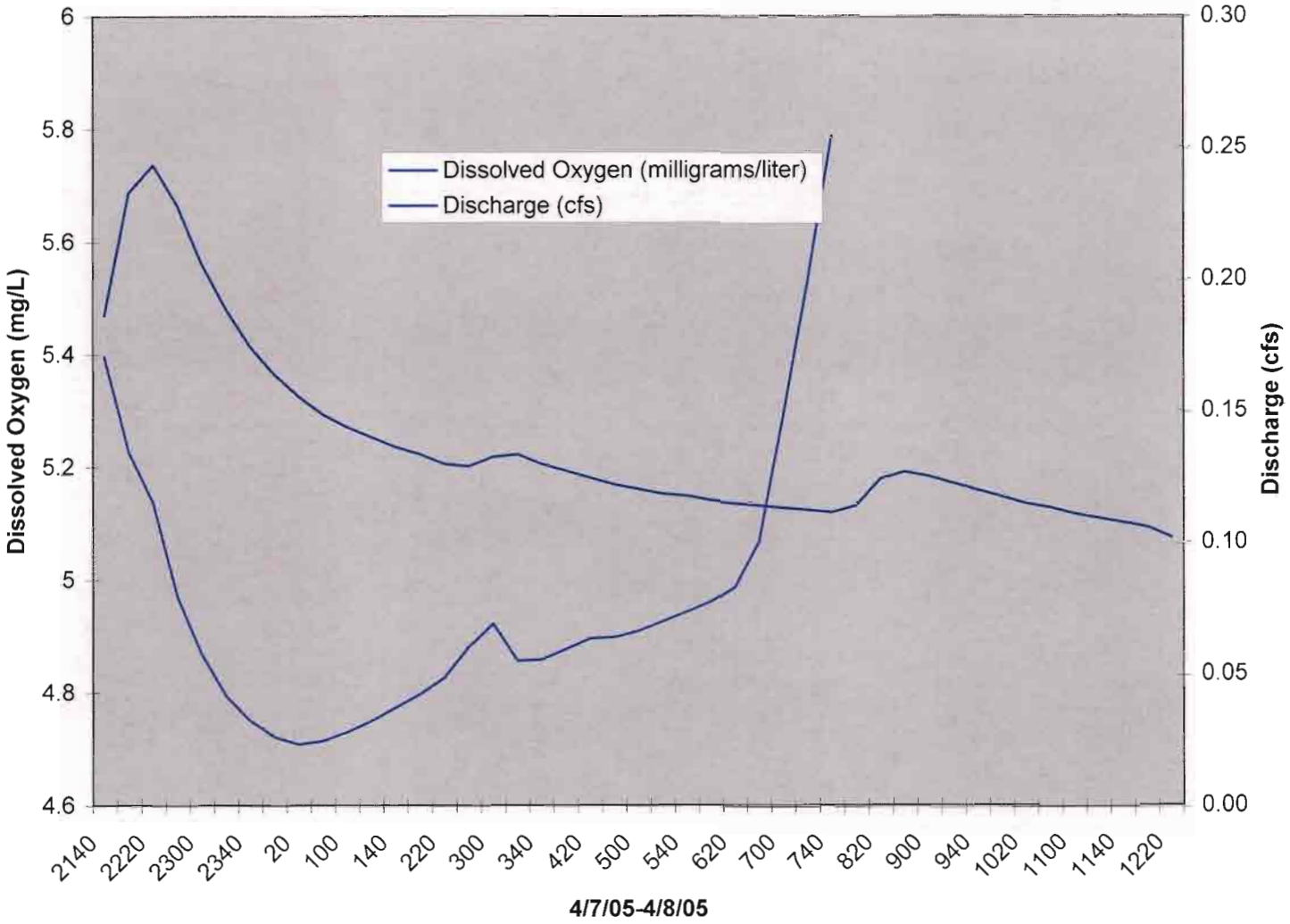
Graph 10.5B: Koreshan Monitoring Station Water Temperature/Discharge vs Time 4/7/05- 4/8/05 Rain Event



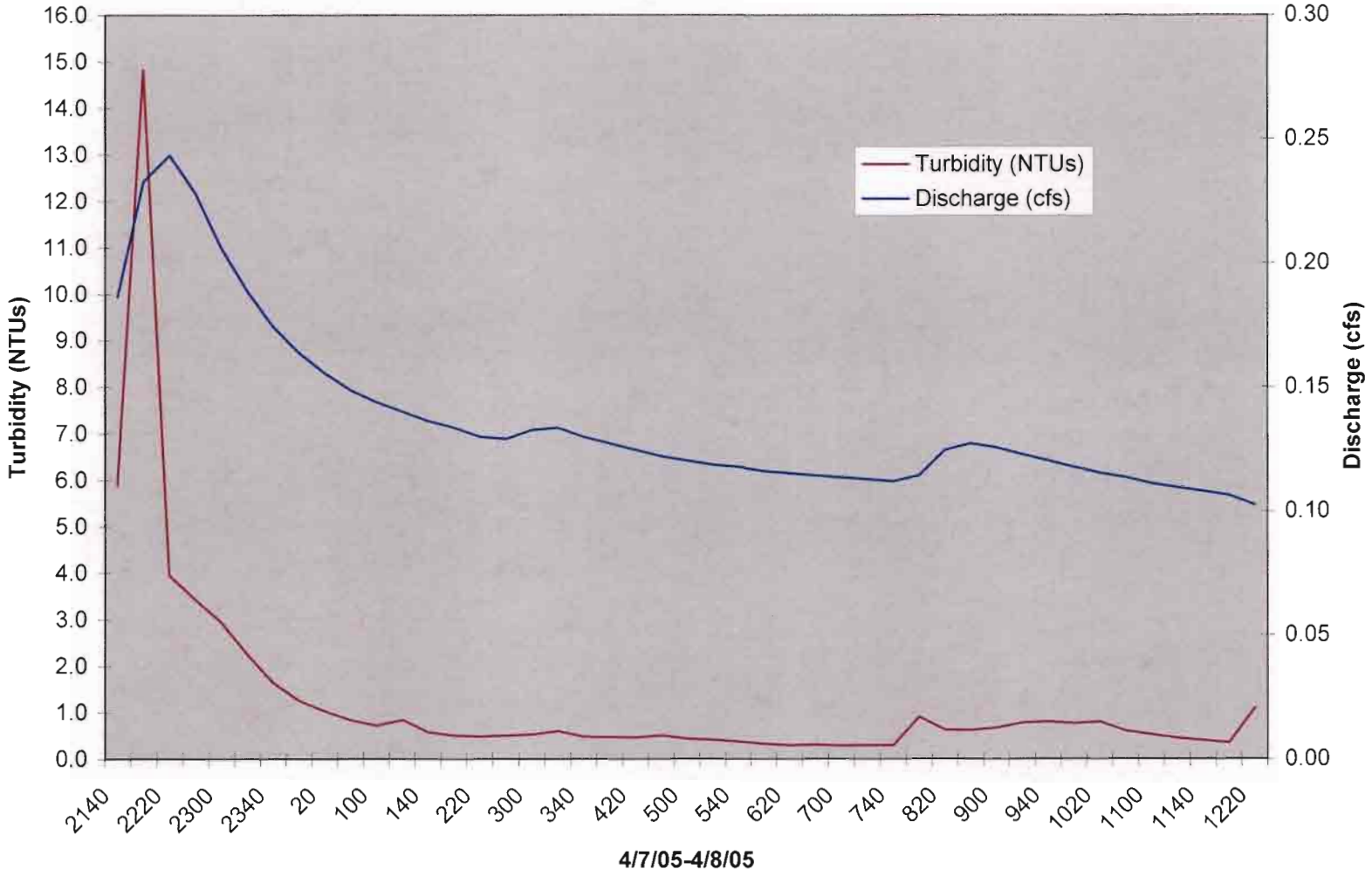
Graph 10.6B: Koreshan Monitoring Station Conductivity/Discharge vs Time 4/7/05- 4/8/05 Rain Event



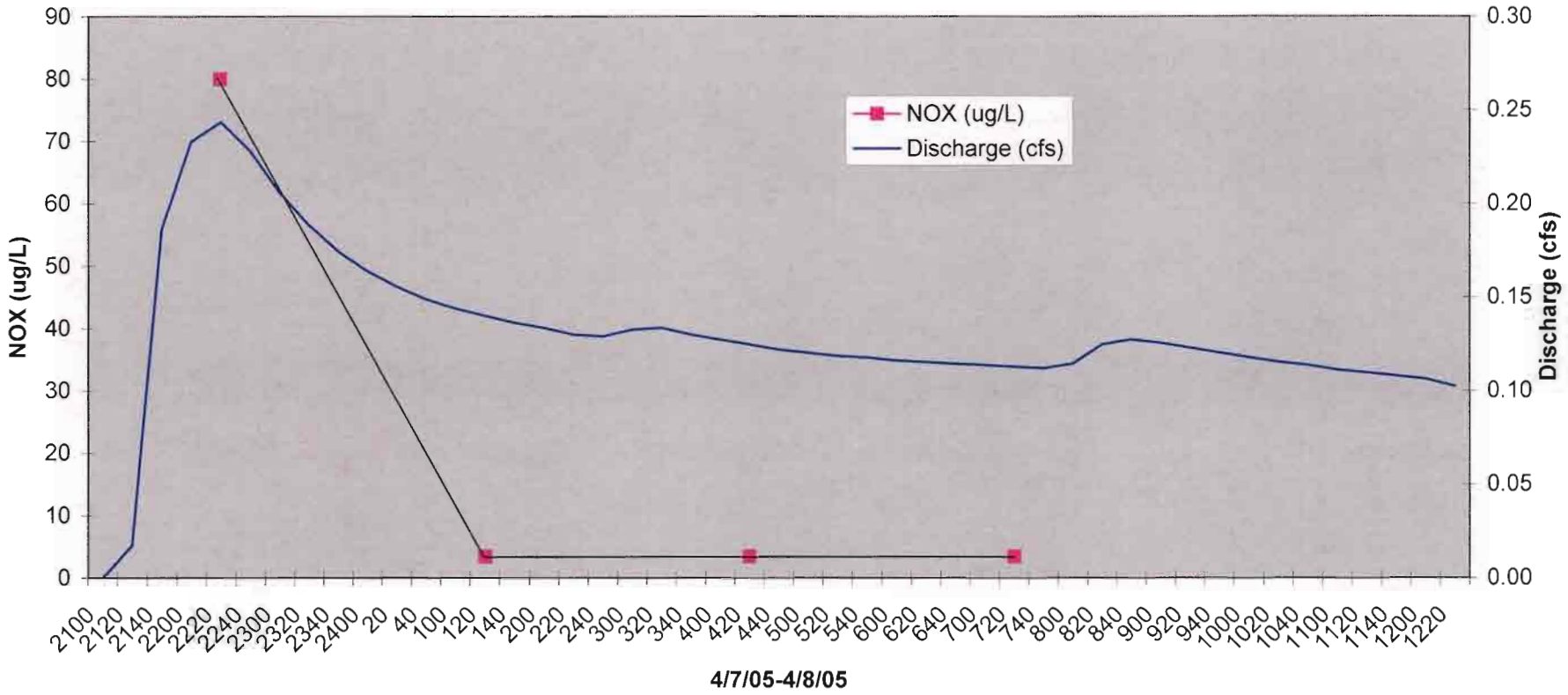
Graph 10.7B: Koreshan Monitoring Station Dissolved Oxygen/Dischare vs Time 4/7/05- 4/8/05 Rain Event



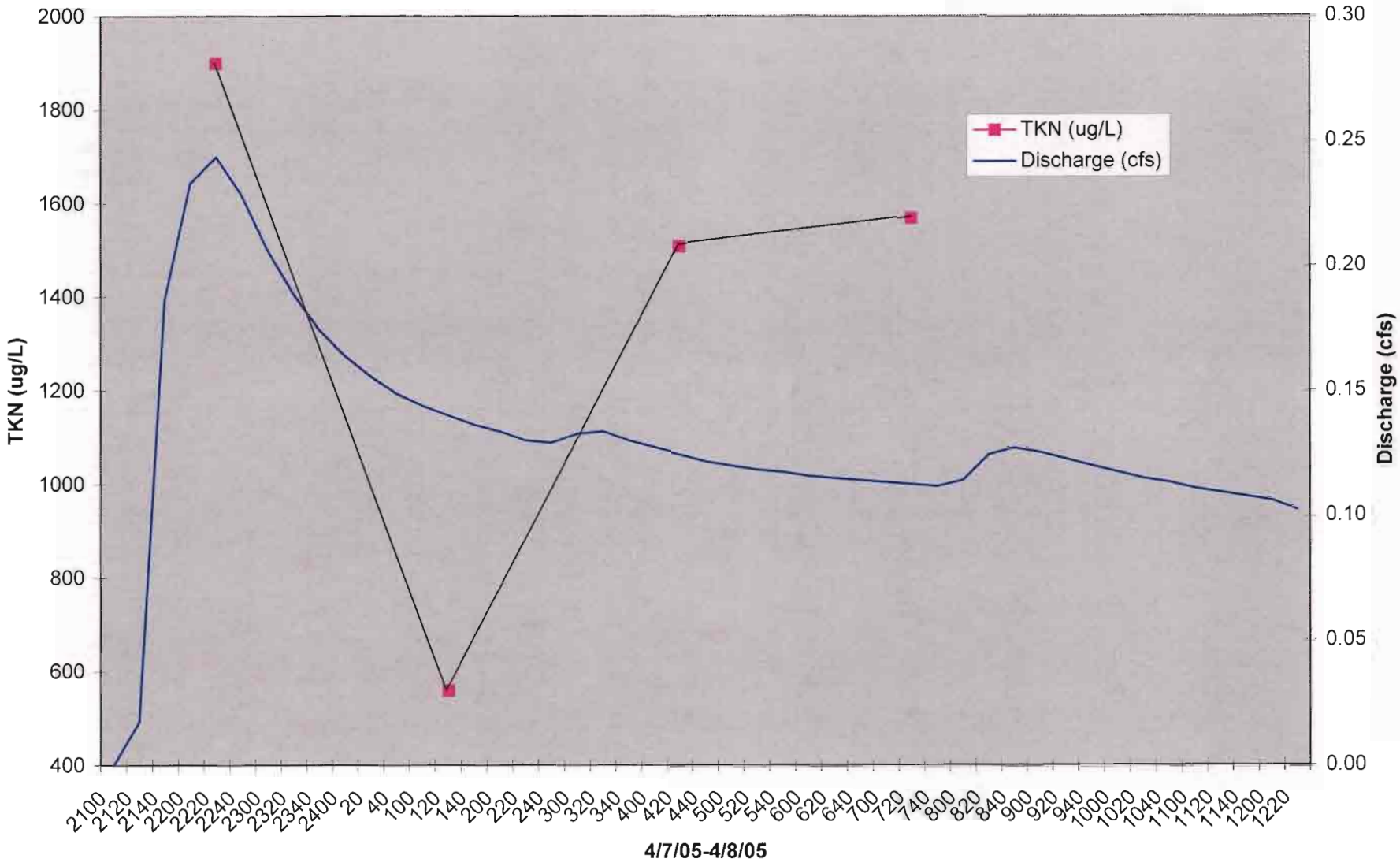
Graph 10.8B: Koreshan Monitoring Station Turbidity/Discharge vs. Time 4/7/05-4/8/05 Rain Event



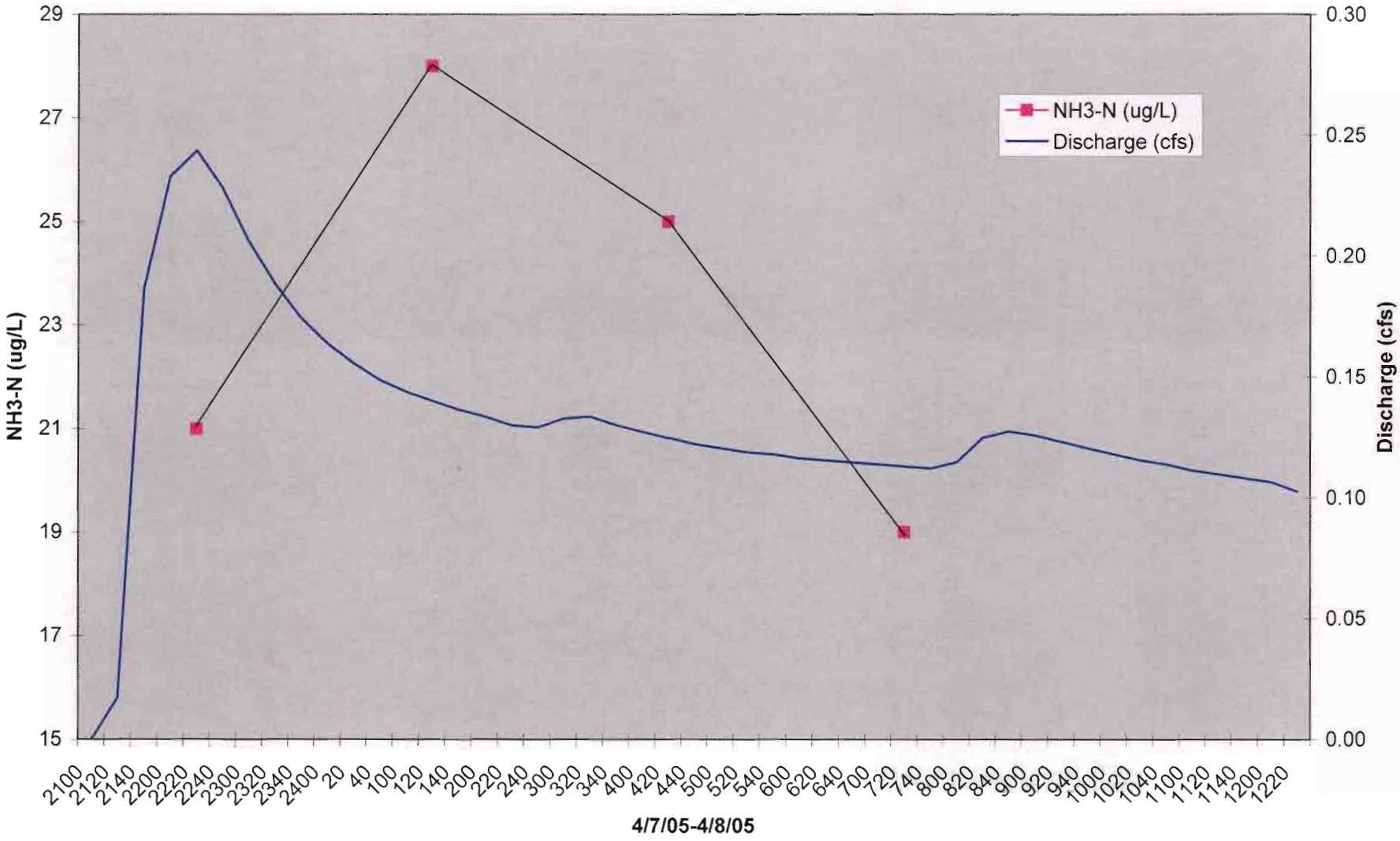
Graph 10.9B: Koreshan Monitoring Station NOX/Discharge vs. Time 4/705-4/8/05 Rain Event



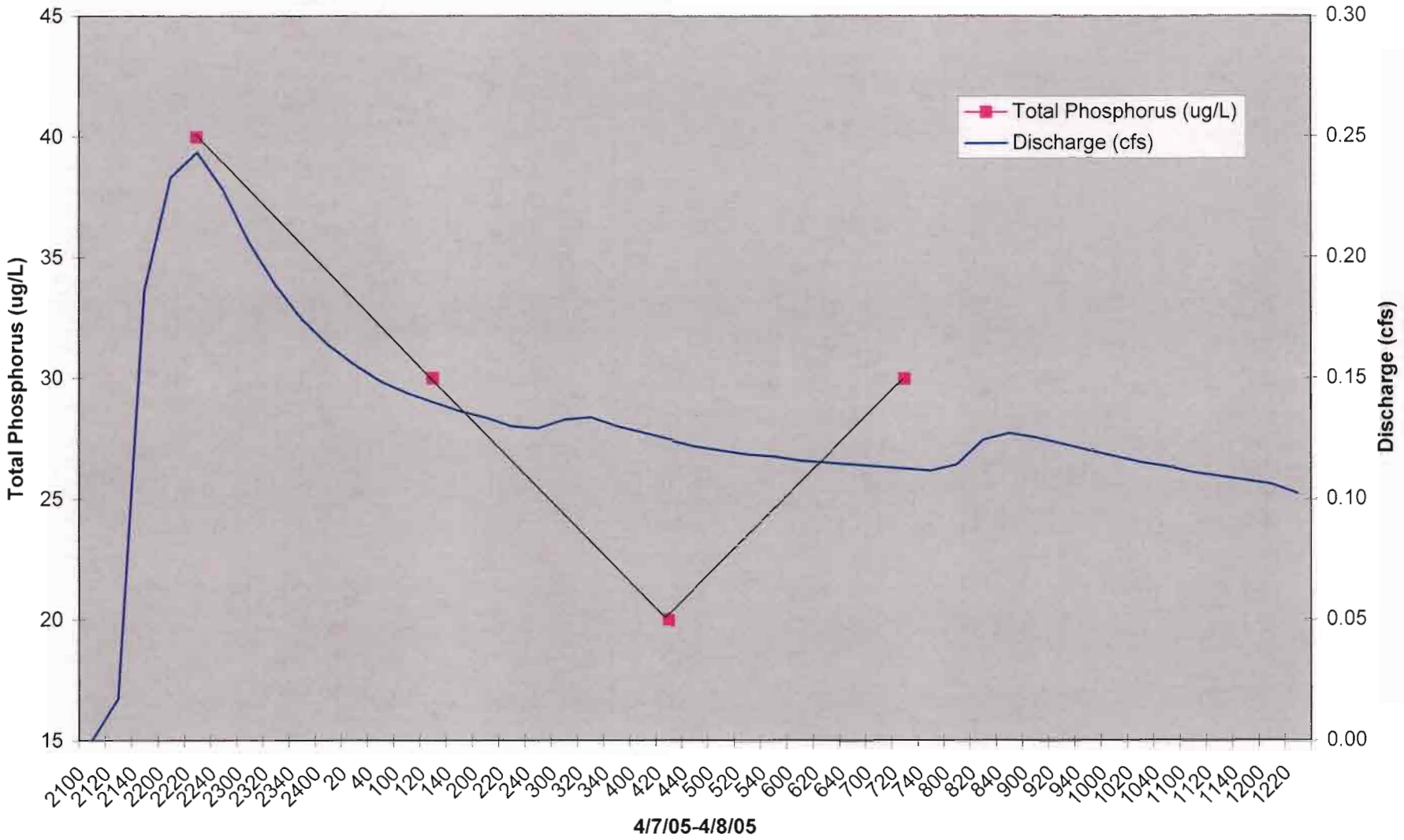
Graph 10.10B: Koreshan Monitoring Station TKN/Discharge vs. Time 4/705-4/8/05 Rain Event



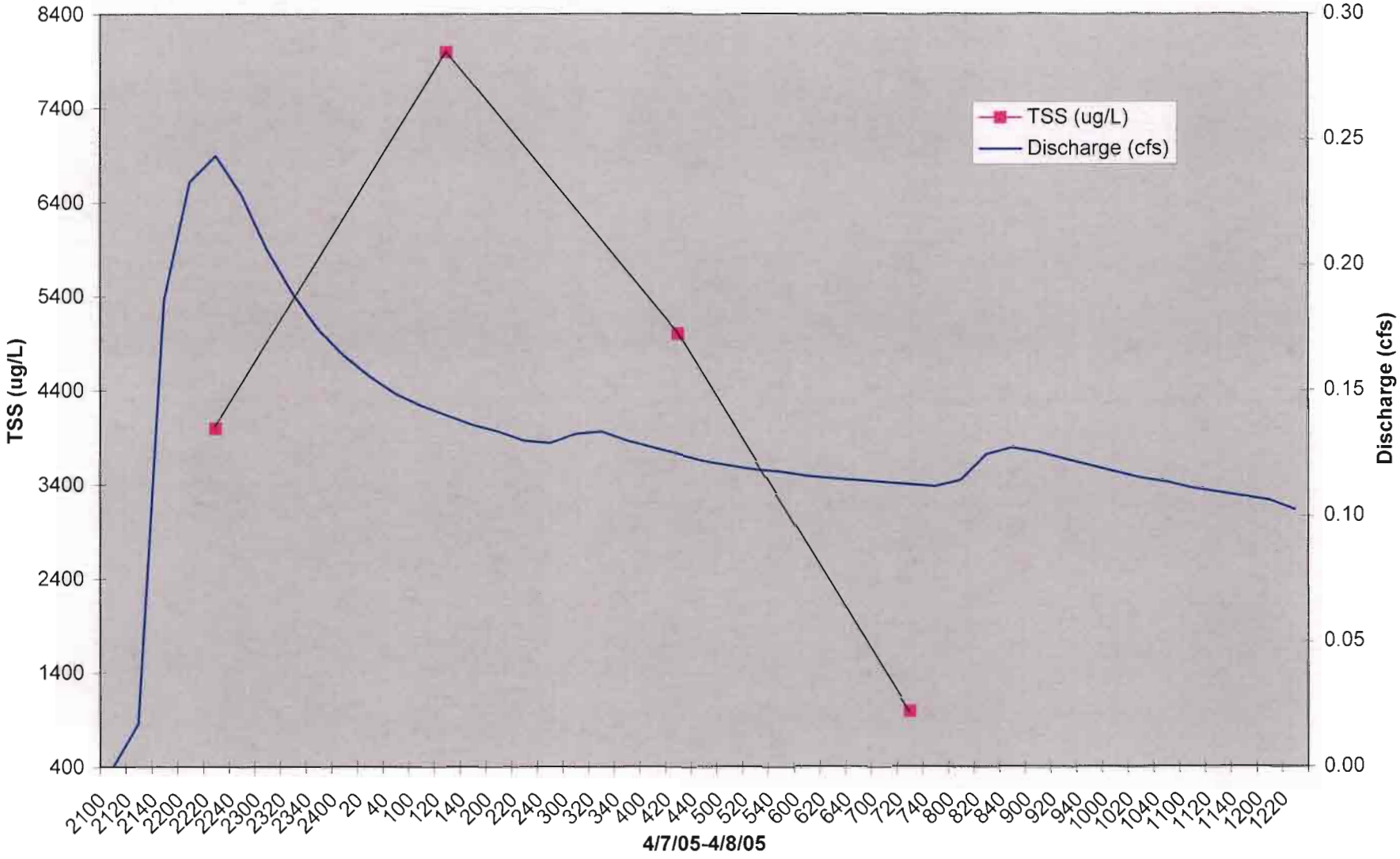
Graph 10.11B: Koreshan Monitoring Station NH3-N/Discharge vs. Time 4/705-4/8/05 Rain Event



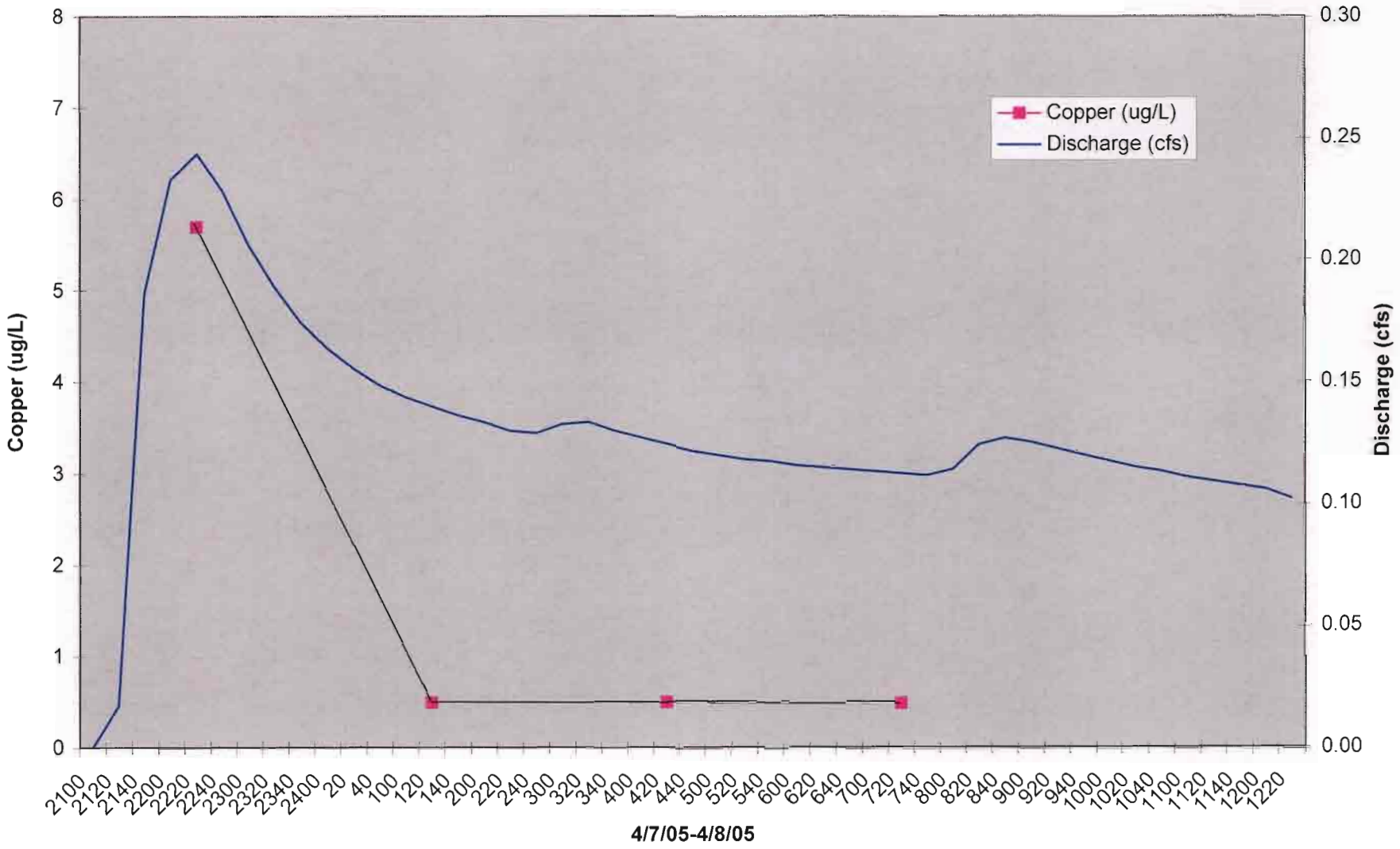
Graph 10.12B: Koreshan Monitoring Station Total Phosphorus/Discharge vs. Time 4/705-4/8/05 Rain Event



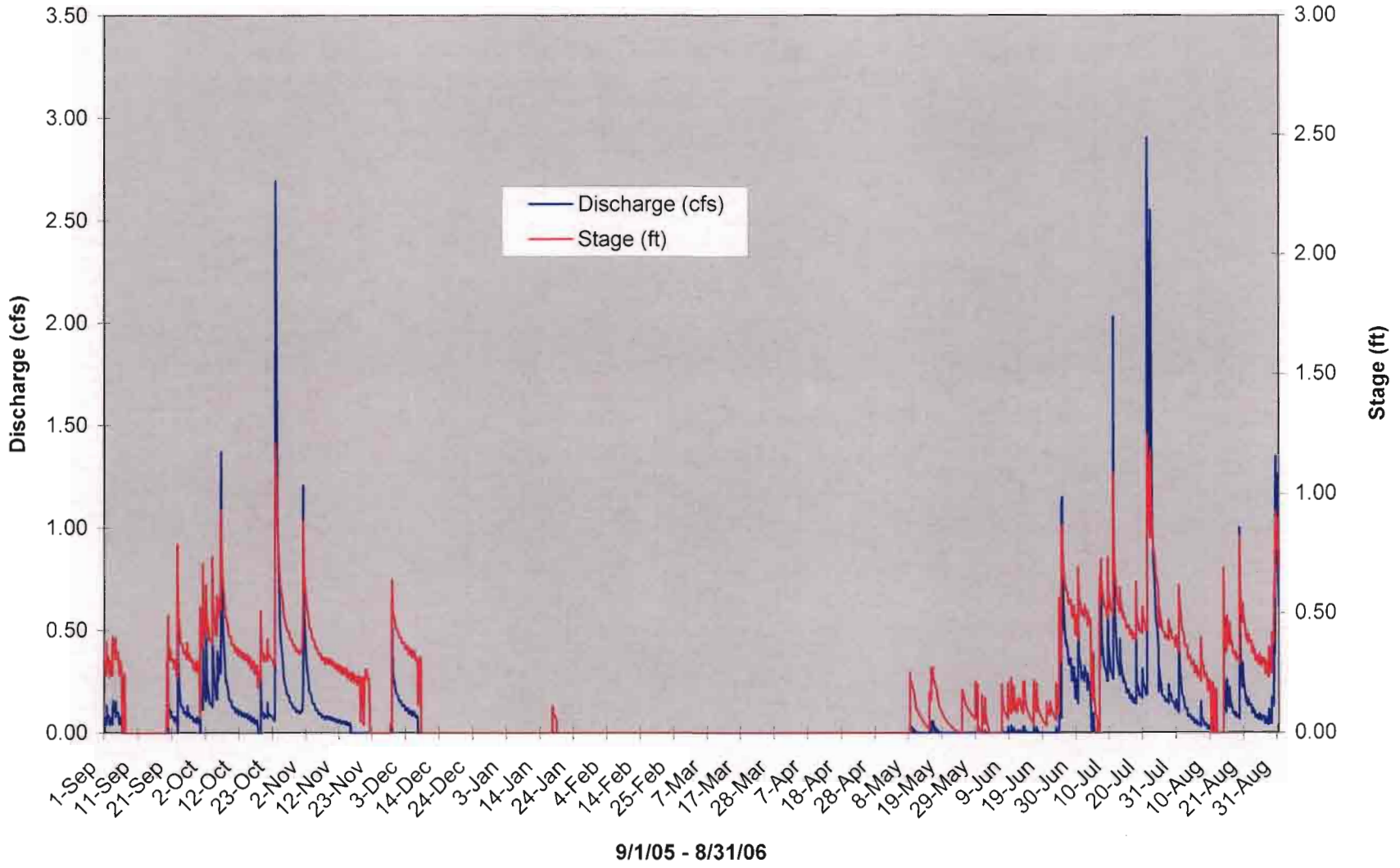
Graph 10.13B: Koreshan Monitoring Station TKN/Discharge vs. Time 4/705-4/8/05 Rain Event



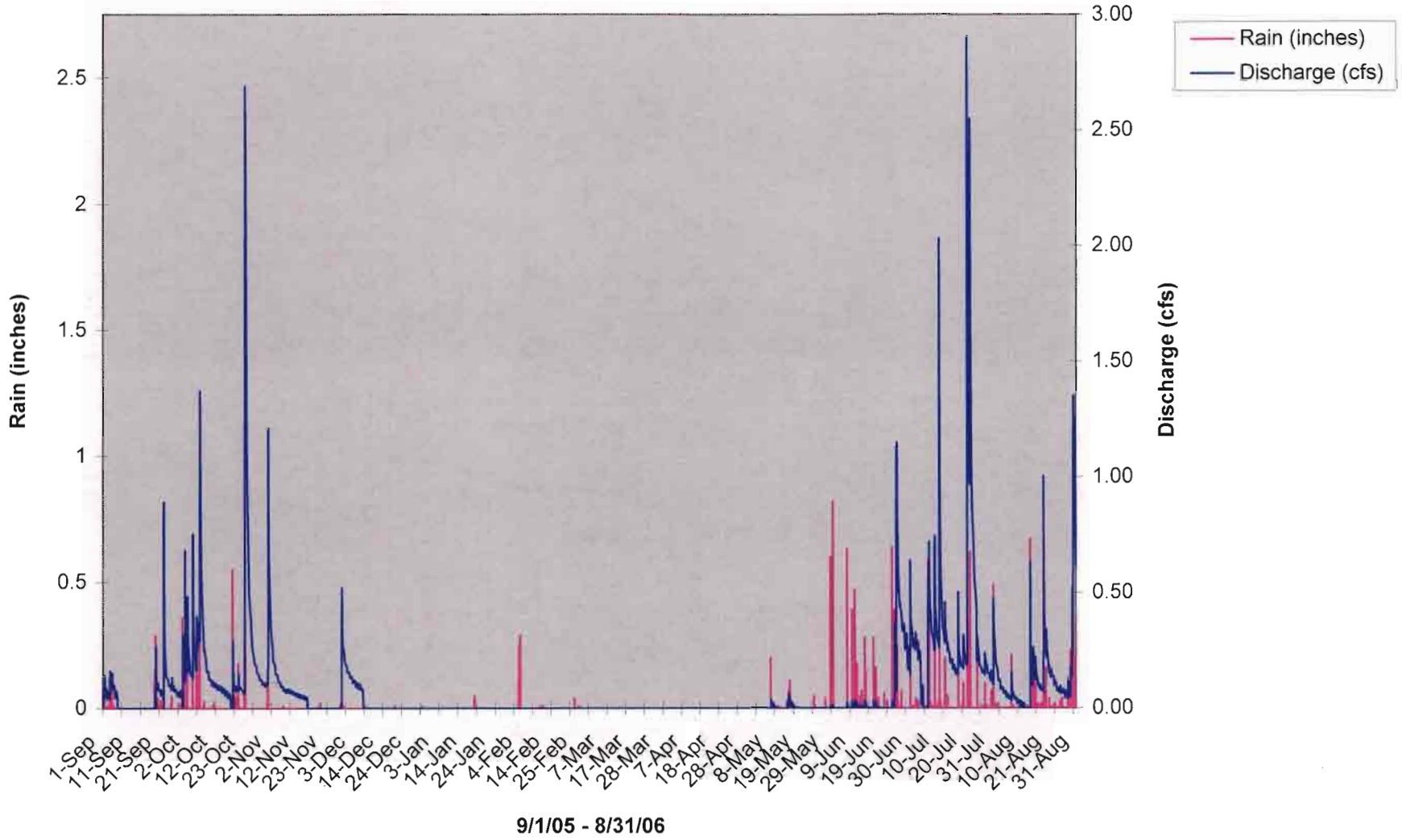
Graph 10.14B: Koreshan Monitoring Station Copper/Discharge vs. Time 4/705-4/8/05 Rain Event



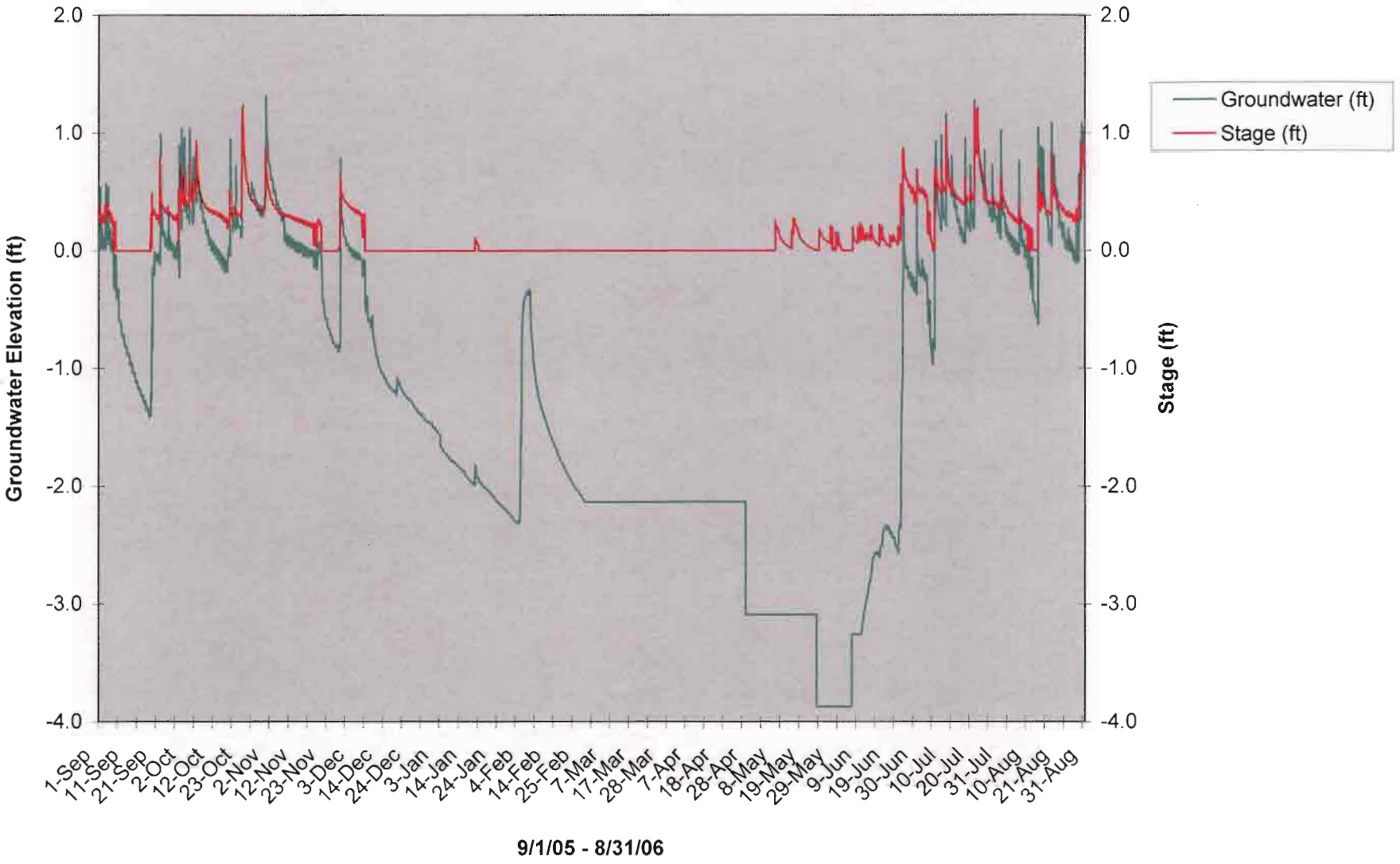
Graph 10.1C: Koreshan State Park Monitoring Station Stage\Discharge vs Time



Graph 10.2C: Koreshan State Park Monitoring Station Rain\Discharge vs Time

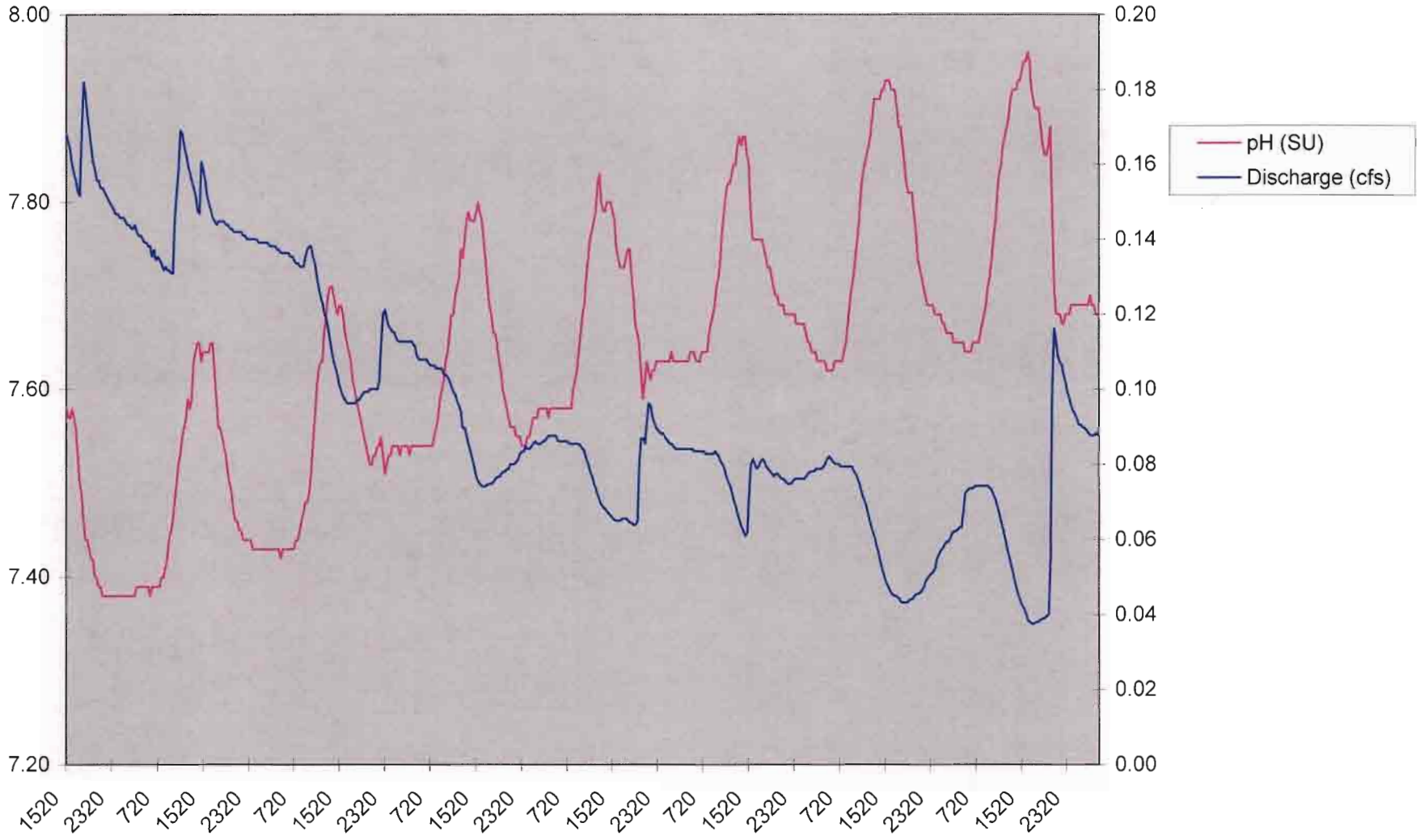


Graph 10.3C: Koreshan State Park Monitoring Station Groundwater Elevation\Stage vs.Time

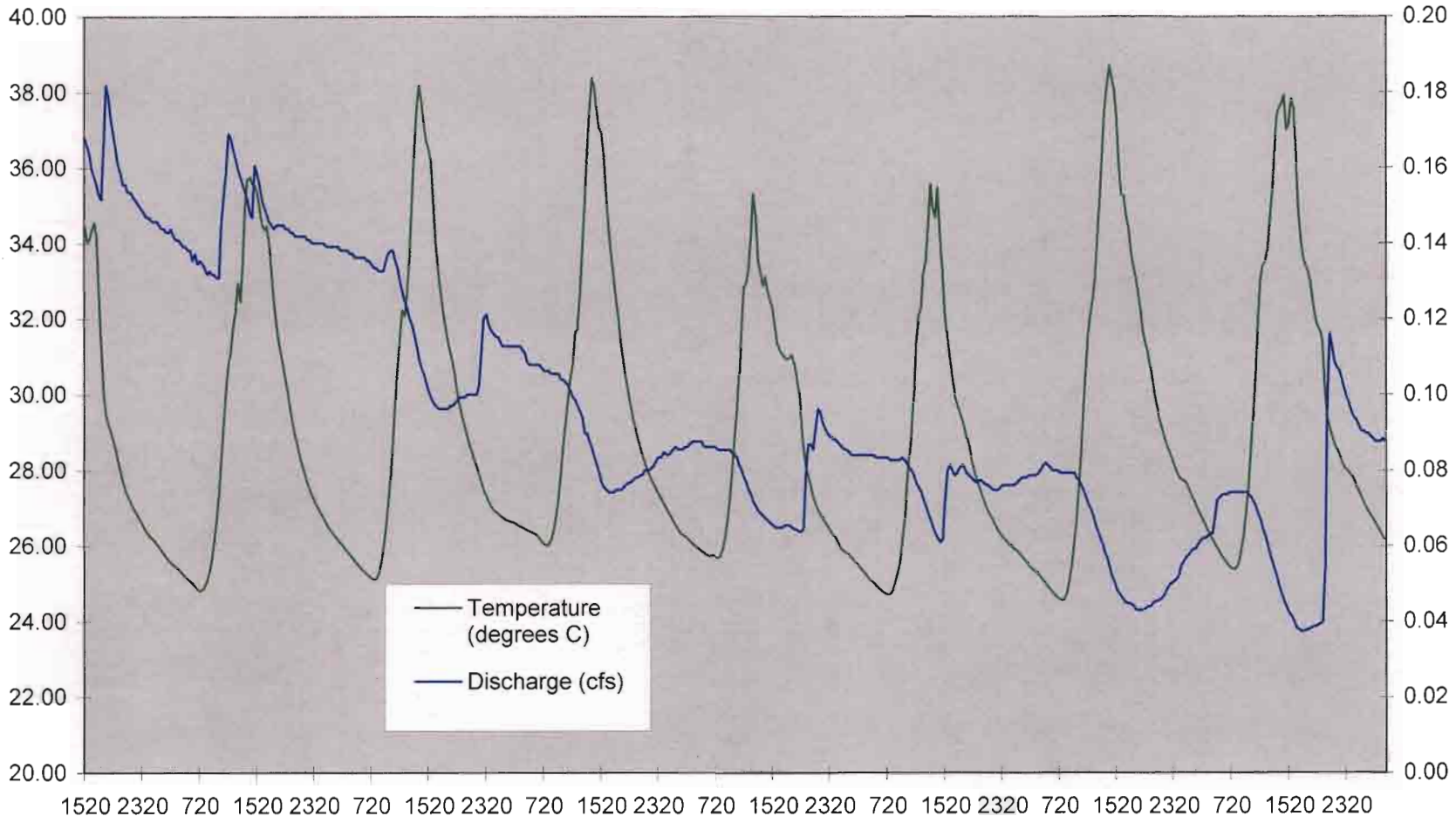


9/1/05 - 8/31/06

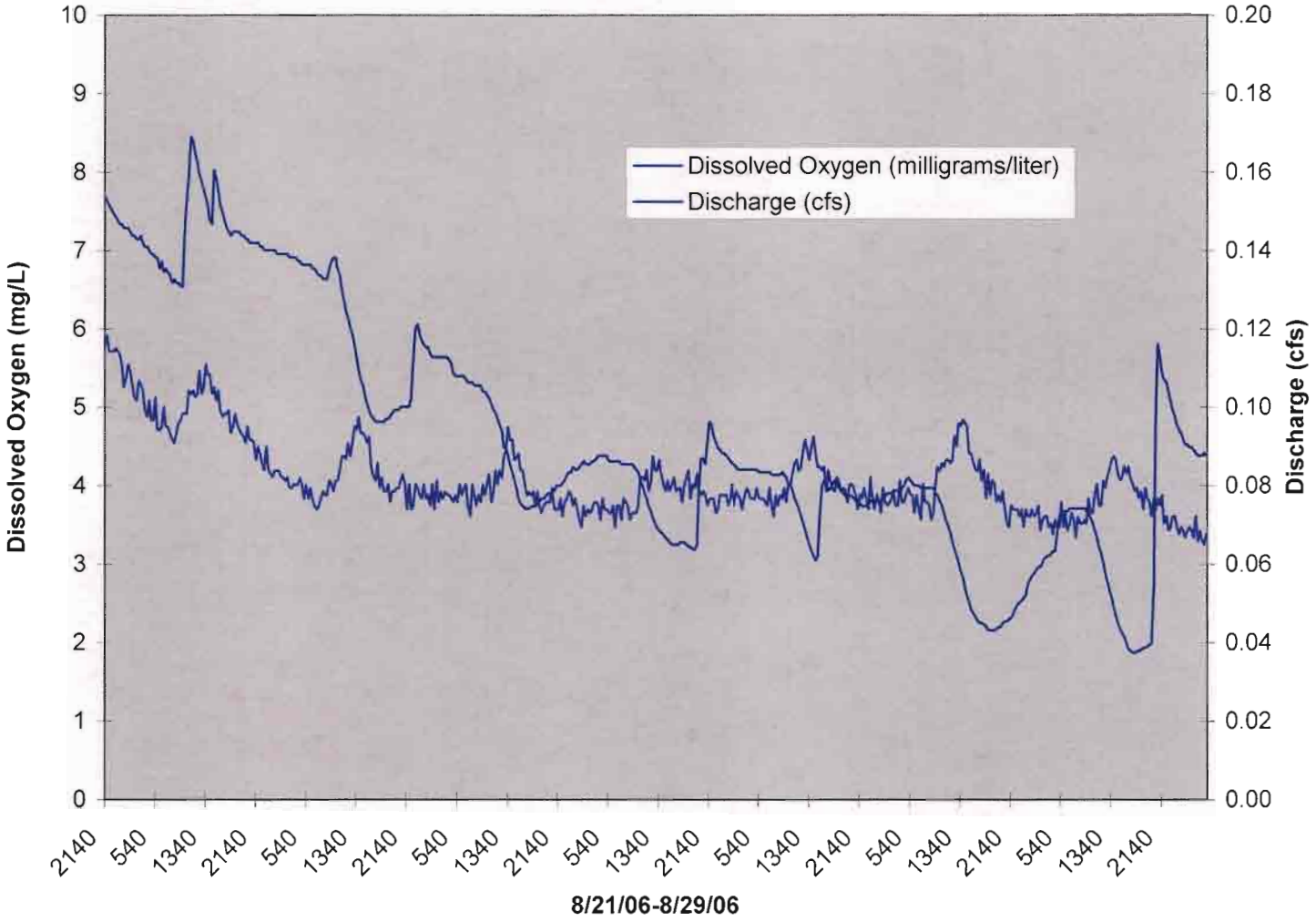
Graph 10.4C: Koreshan Monitoring Station pH/Discharge vs Time 8/21/06- 8/29/06



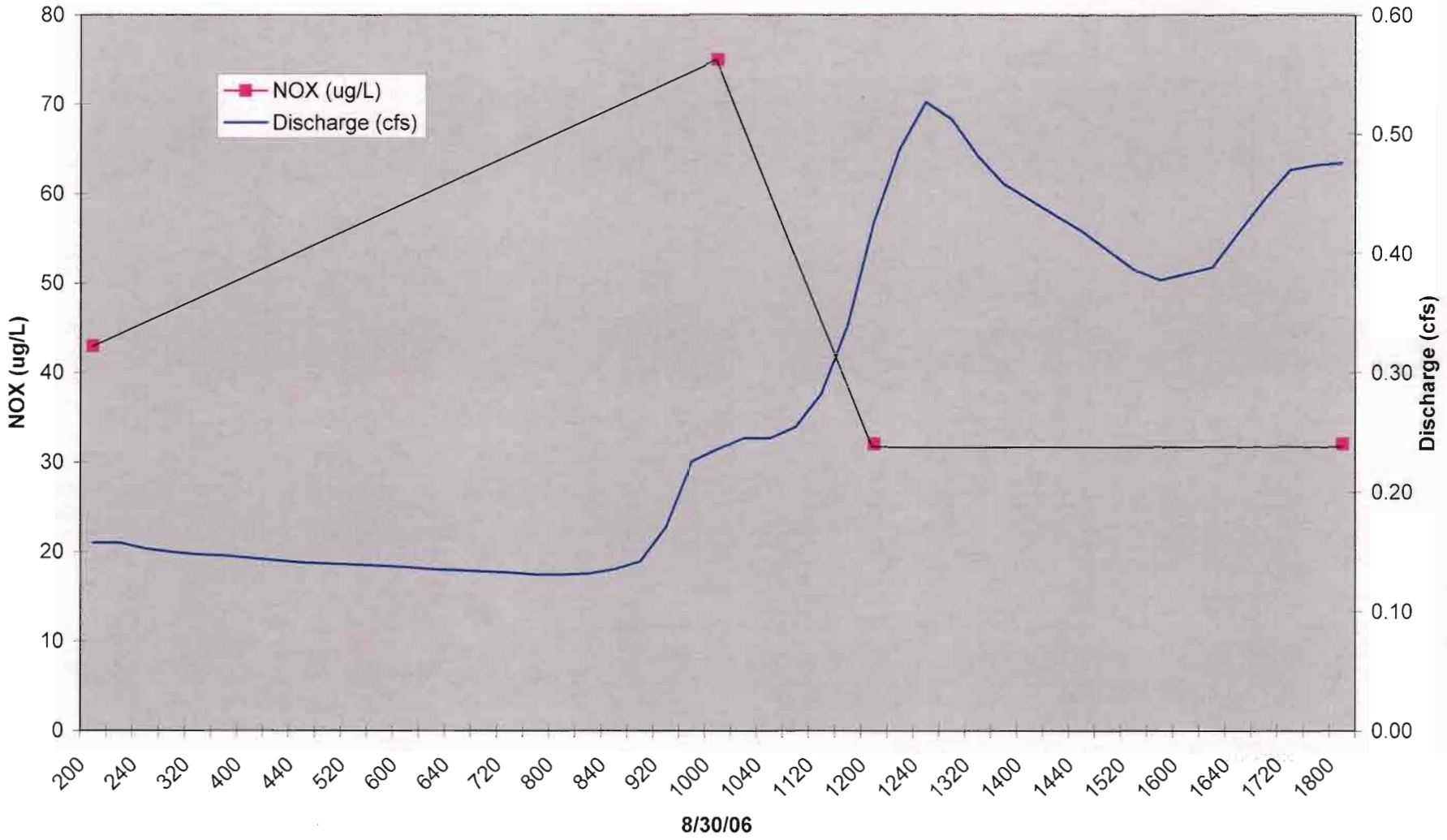
Graph 10.5C: Koreshan Monitoring Station Water Temperature/Discharge vs Time
8/21/06- 8/29/06



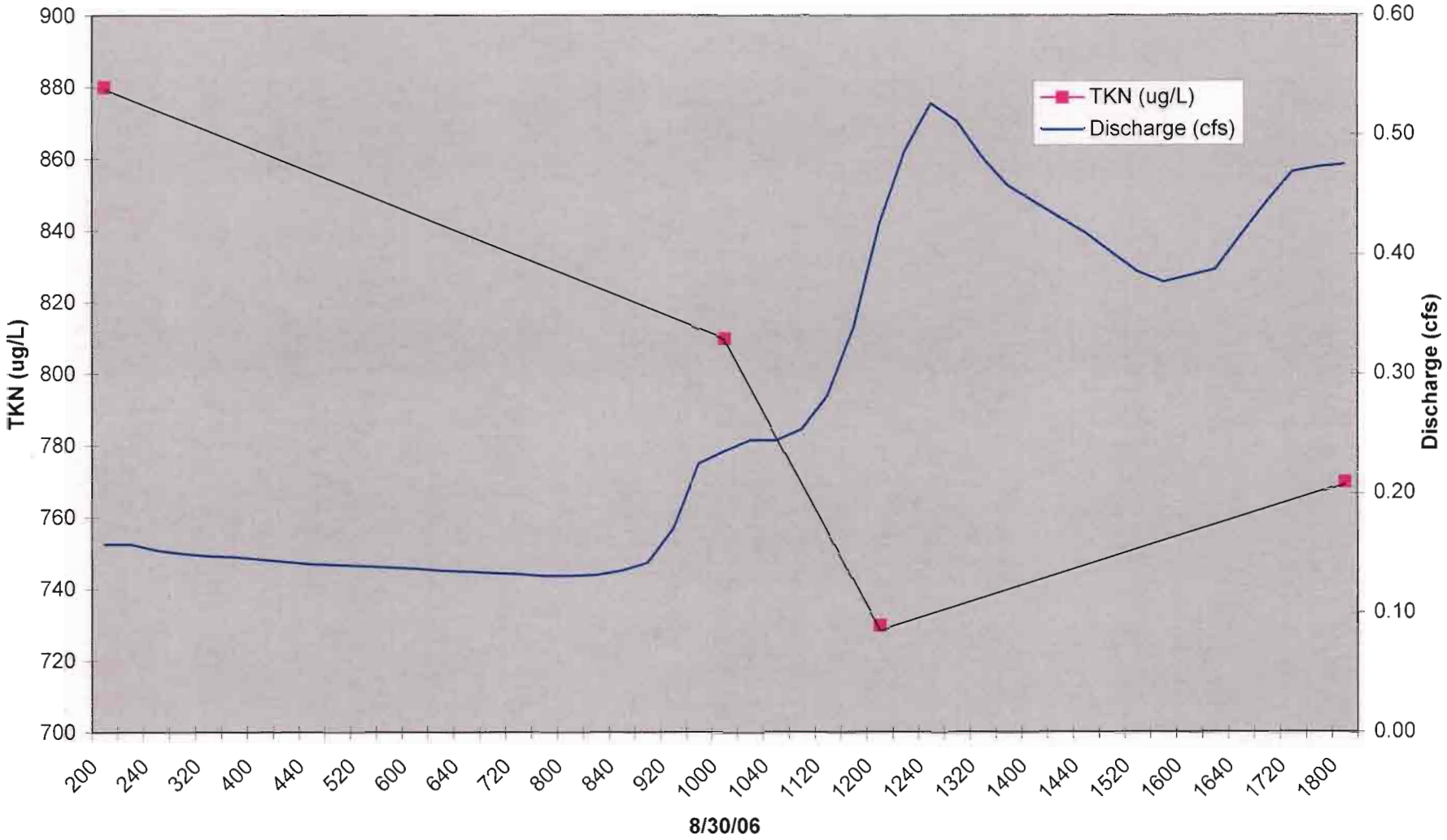
Graph 10.6C: Koreshan Monitoring Station Dissolved Oxygen/Discharge vs Time 8/21/06-8/29/06



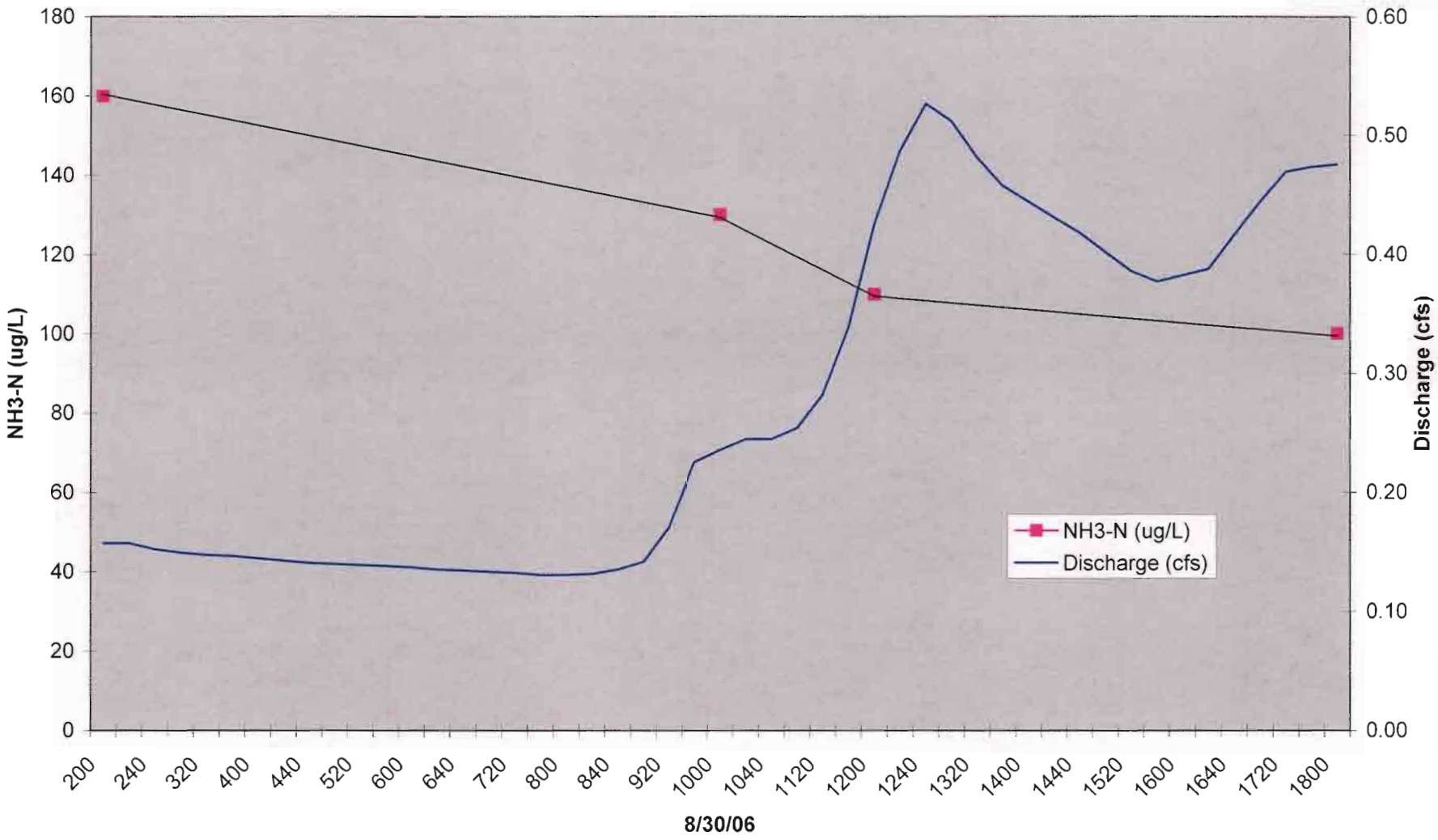
Graph 10.7C: Koreshan Monitoring Station NOX/Discharge vs. Time 8/30/06 Rain Event



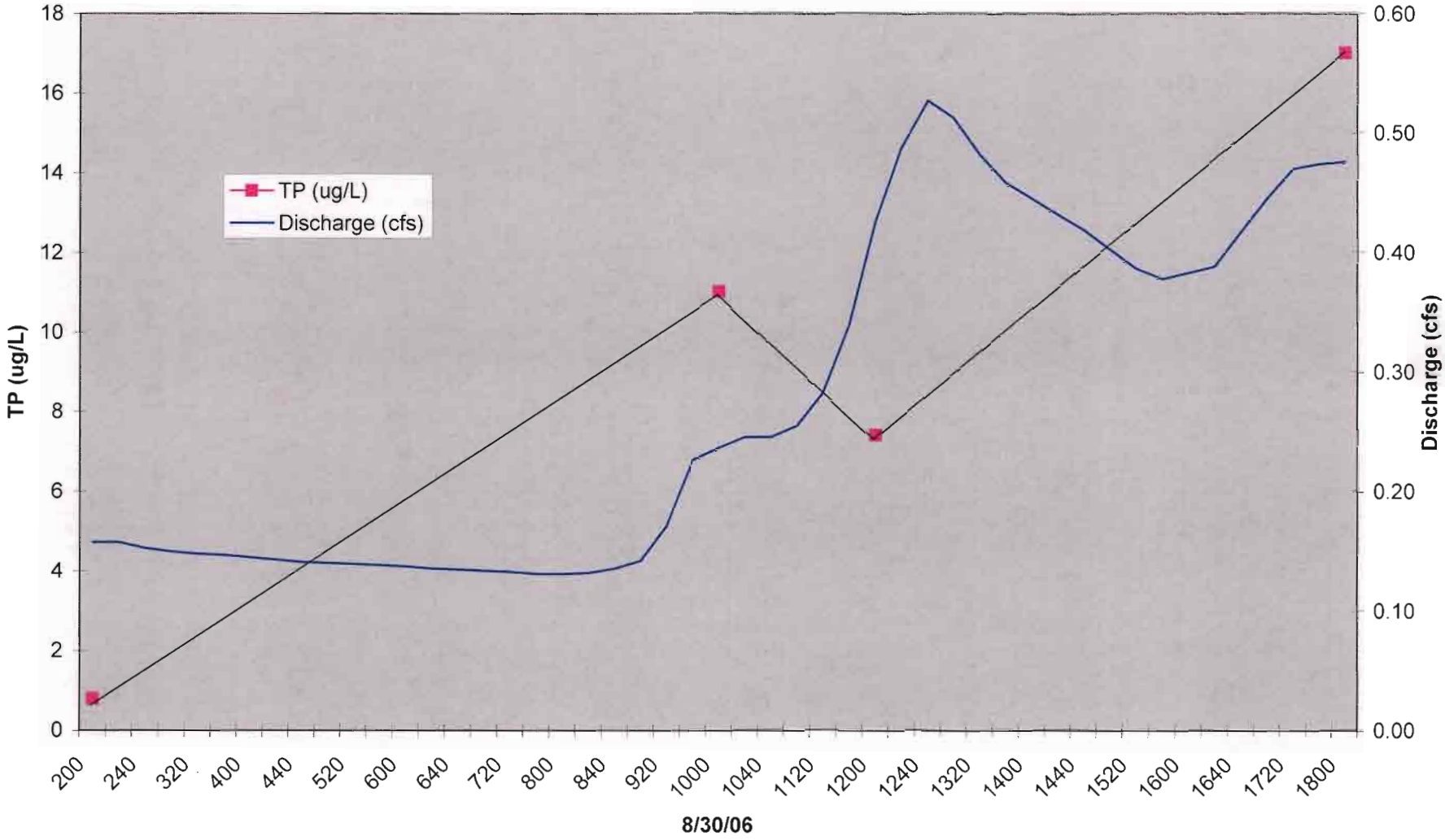
Graph 10.8C: Koreshan Monitoring Station TKN/Discharge vs. Time 8/30/06 Rain Event



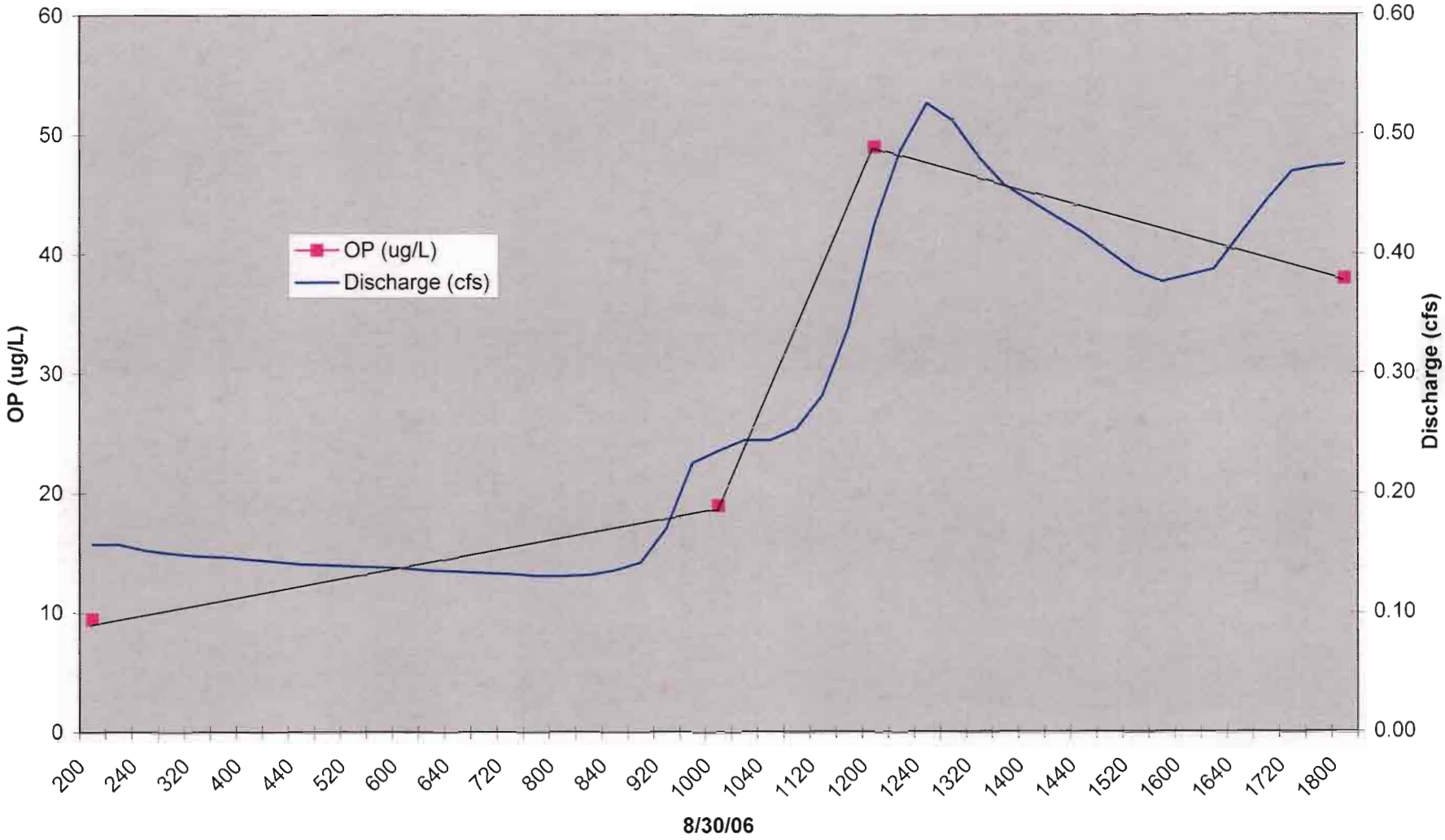
Graph 10.9C: Koreshan Monitoring Station NH3-N/Discharge vs. Time 8/30/06 Rain Event



Graph 10.10C: Koreshan Monitoring Station TP/Discharge vs. Time 8/30/06 Rain Event

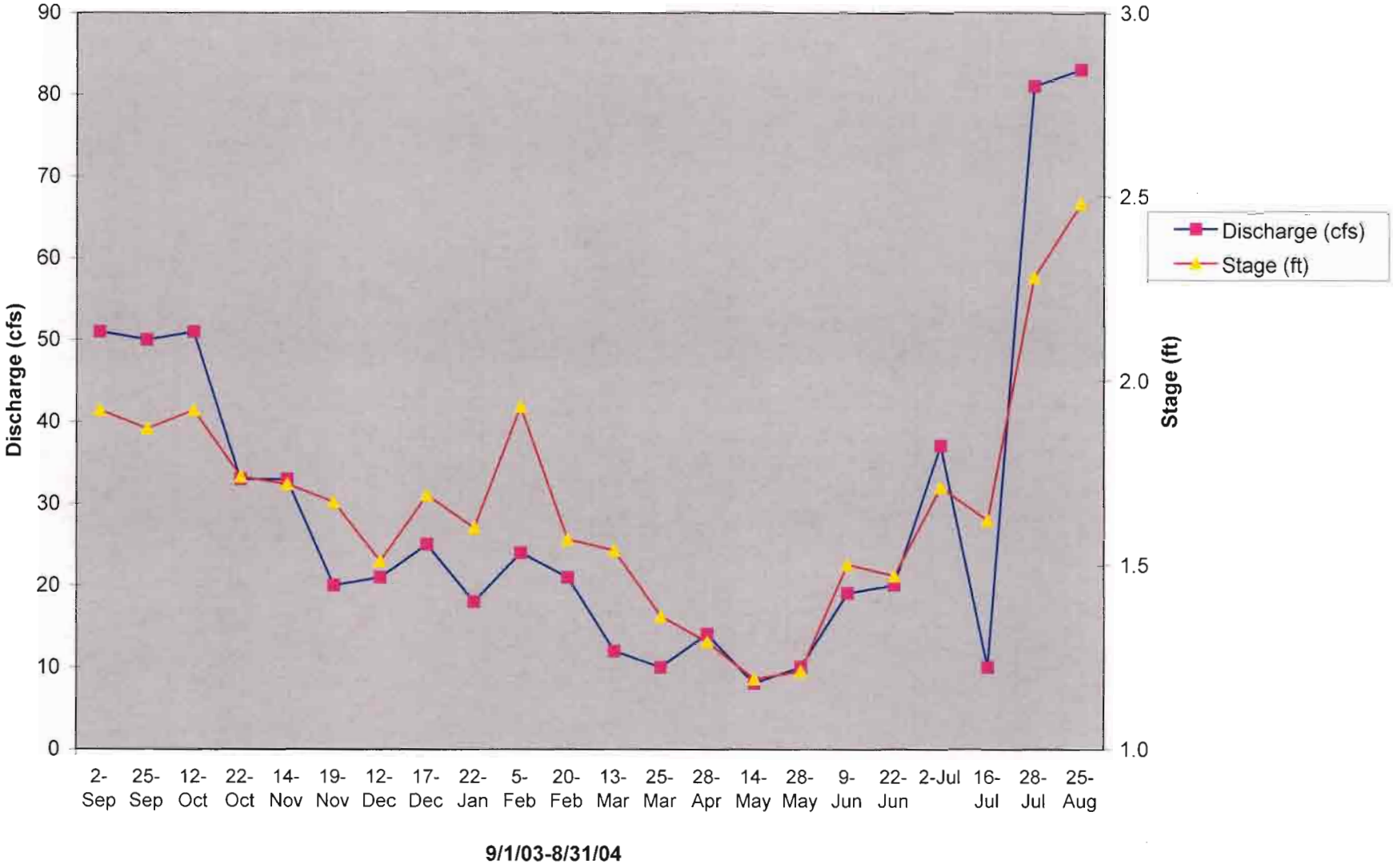


Graph 10.11C: Koreshan Monitoring Station OP/Discharge vs. Time 8/30/06 Rain Event



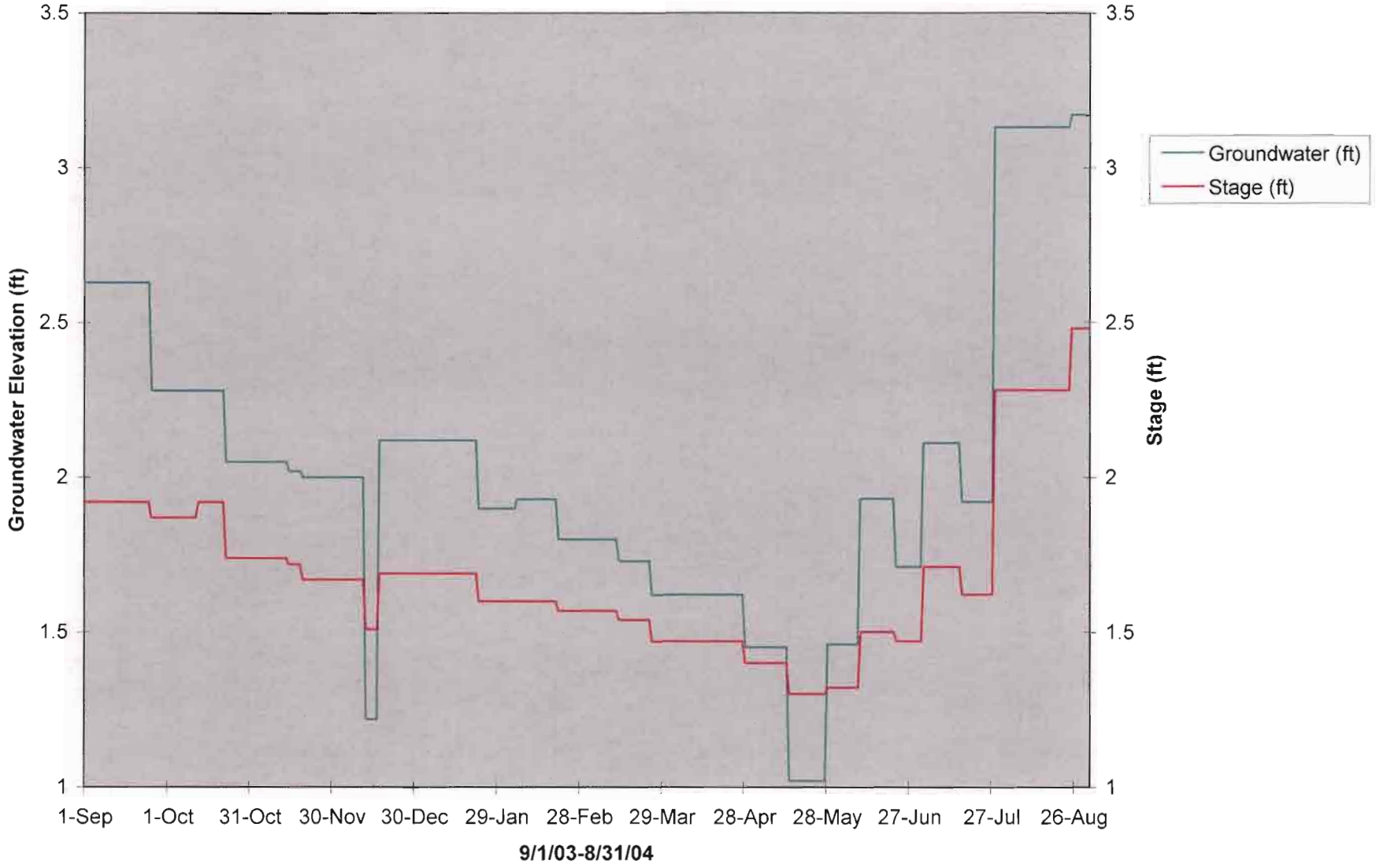
A.11 MULLOCK CREEK GRAPHS

Graph 11.1A: Mullock Creek Monitoring Station Discharge/Stage vs. Time

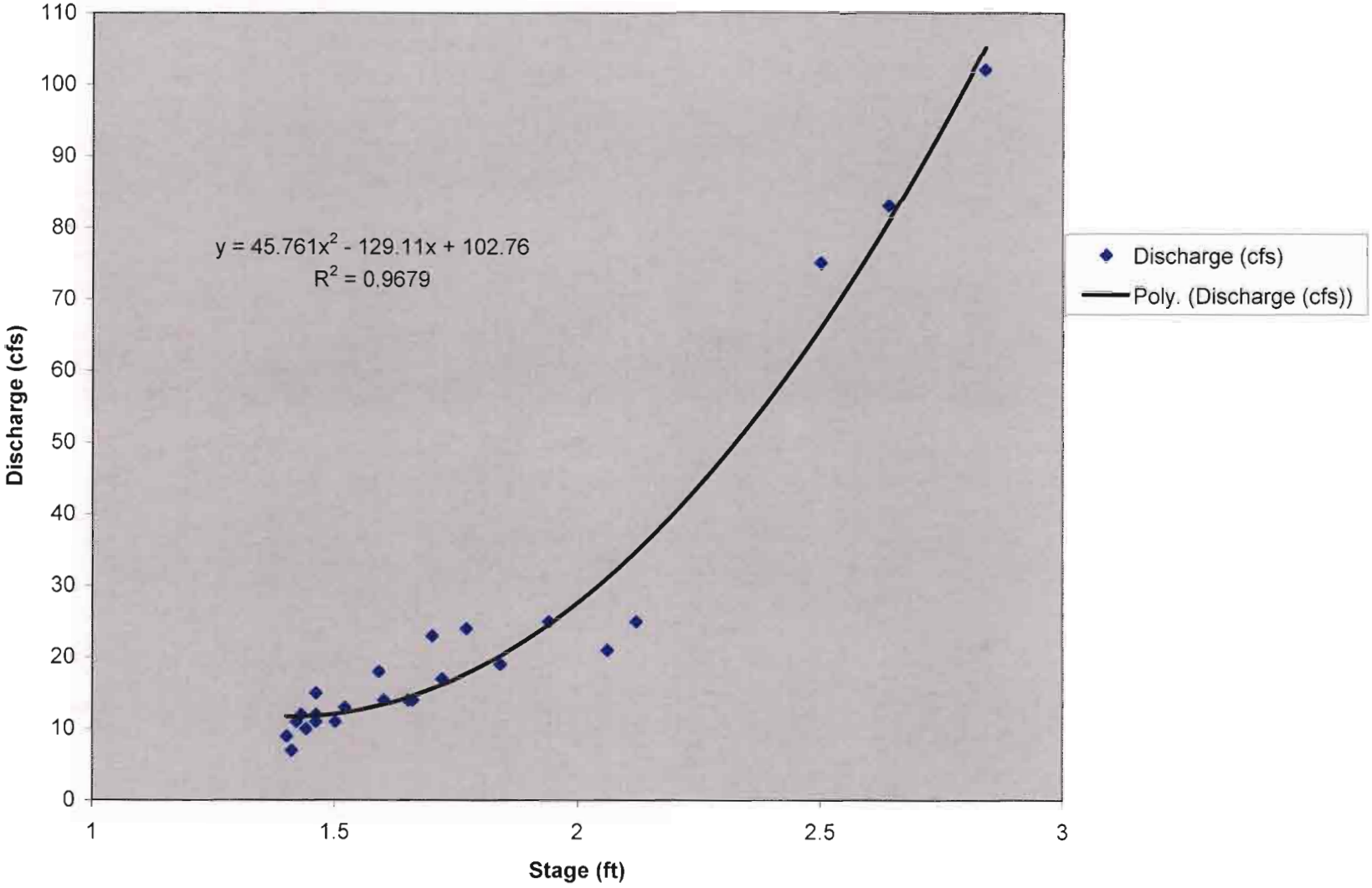


9/1/03-8/31/04

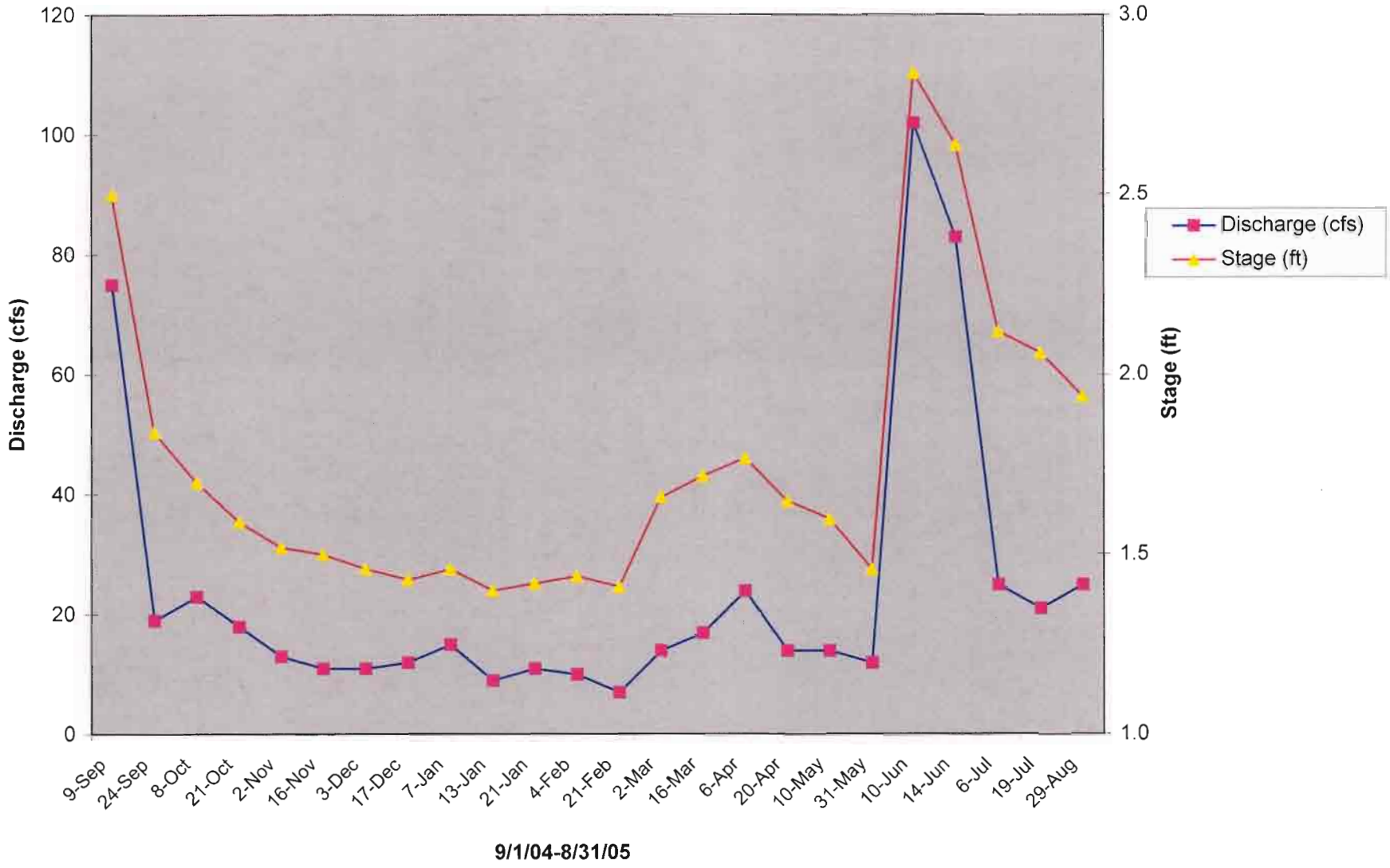
Graph 11.2A: Mullock Creek Monitoring Station Groundwater Elevation/Stage vs Time



Graph 11.1B: Mullock Creek Monitoring Station Discharge vs Stage Calibration Curve
9/1/04-8/31/05

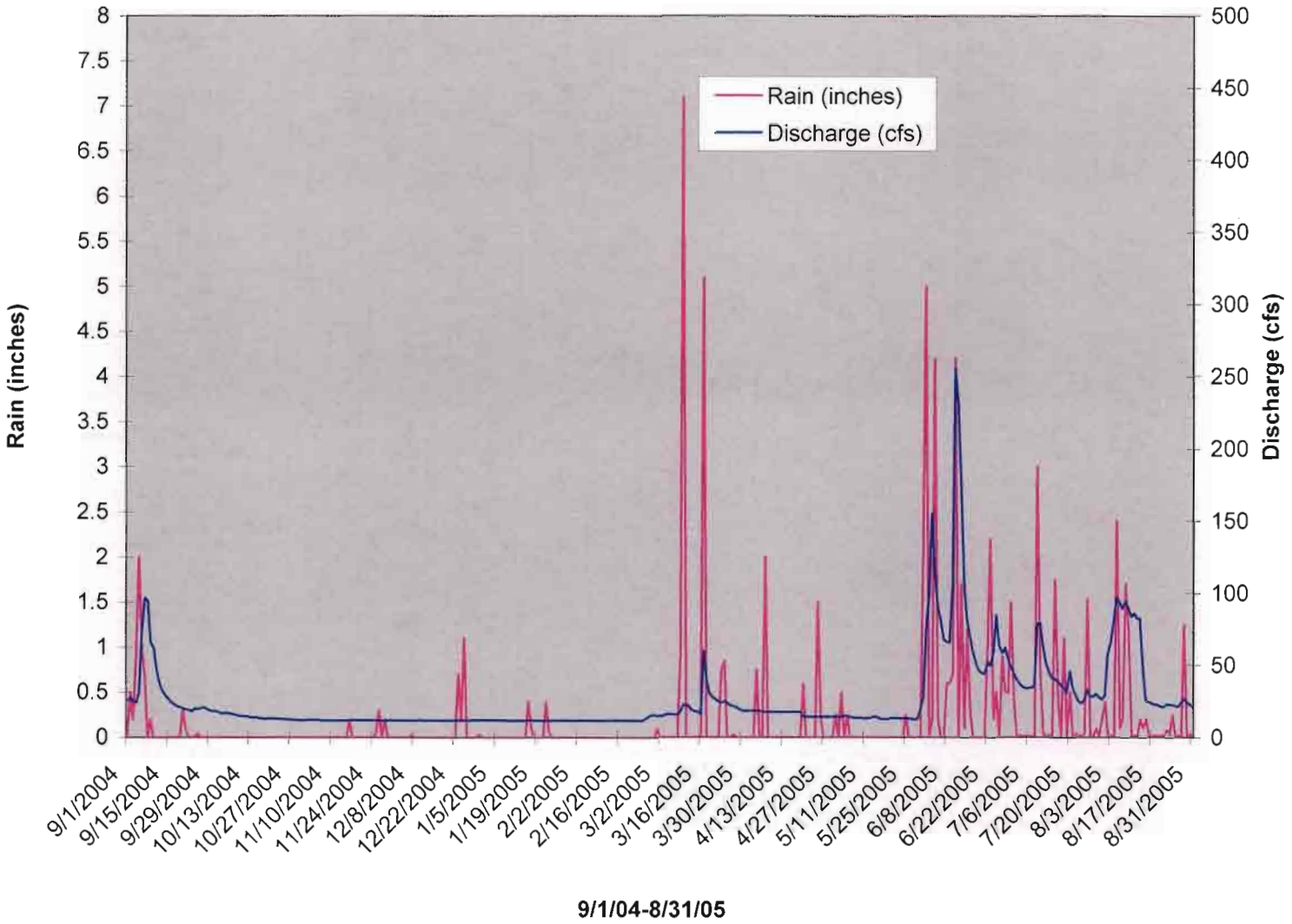


Graph 11.2B: Mullock Creek Monitoring Station Discharge/Stage vs. Time



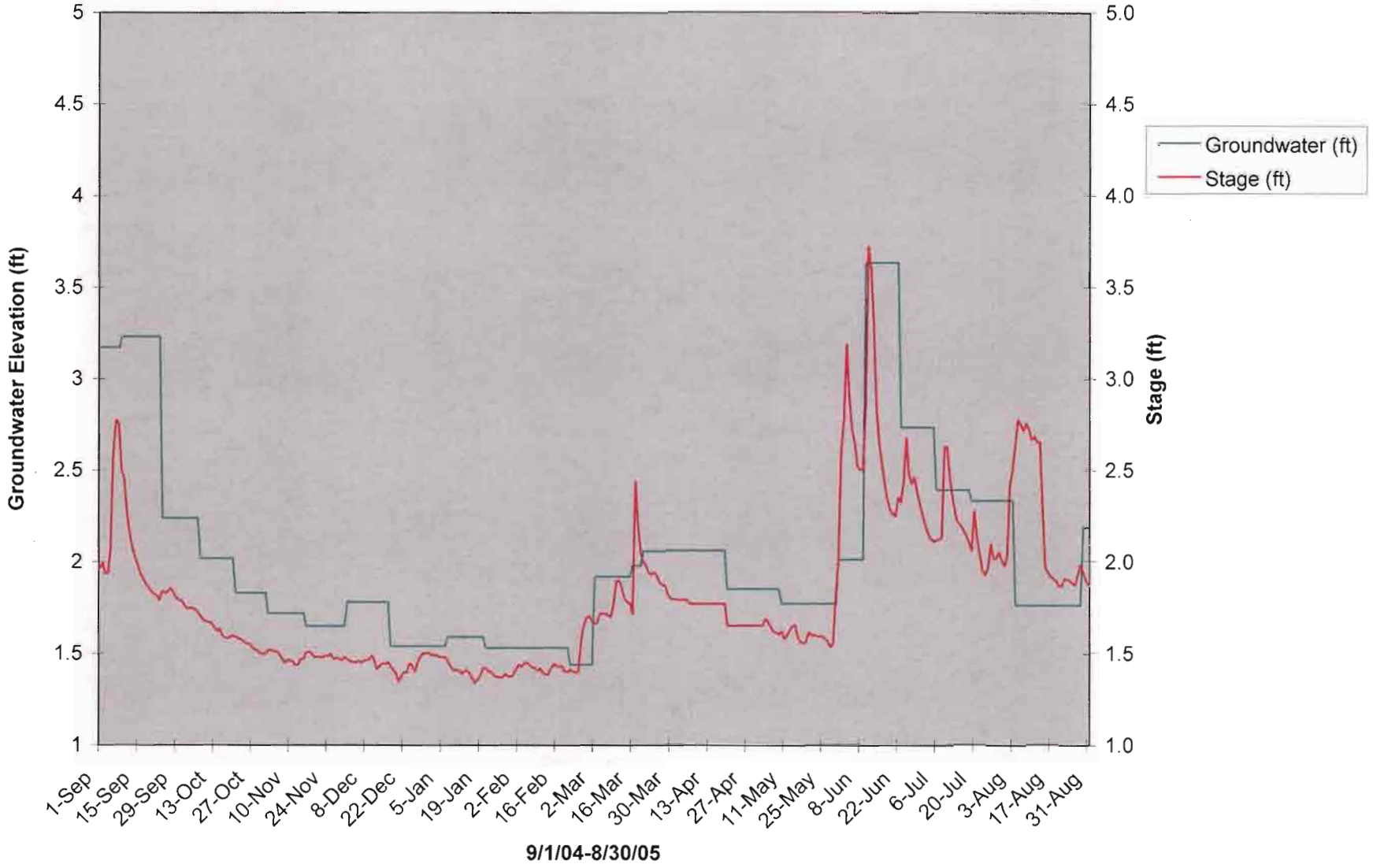
9/1/04-8/31/05

Graph 11.3B: Mullock Creek Monitoring Station Rain\ Discharge vs Time

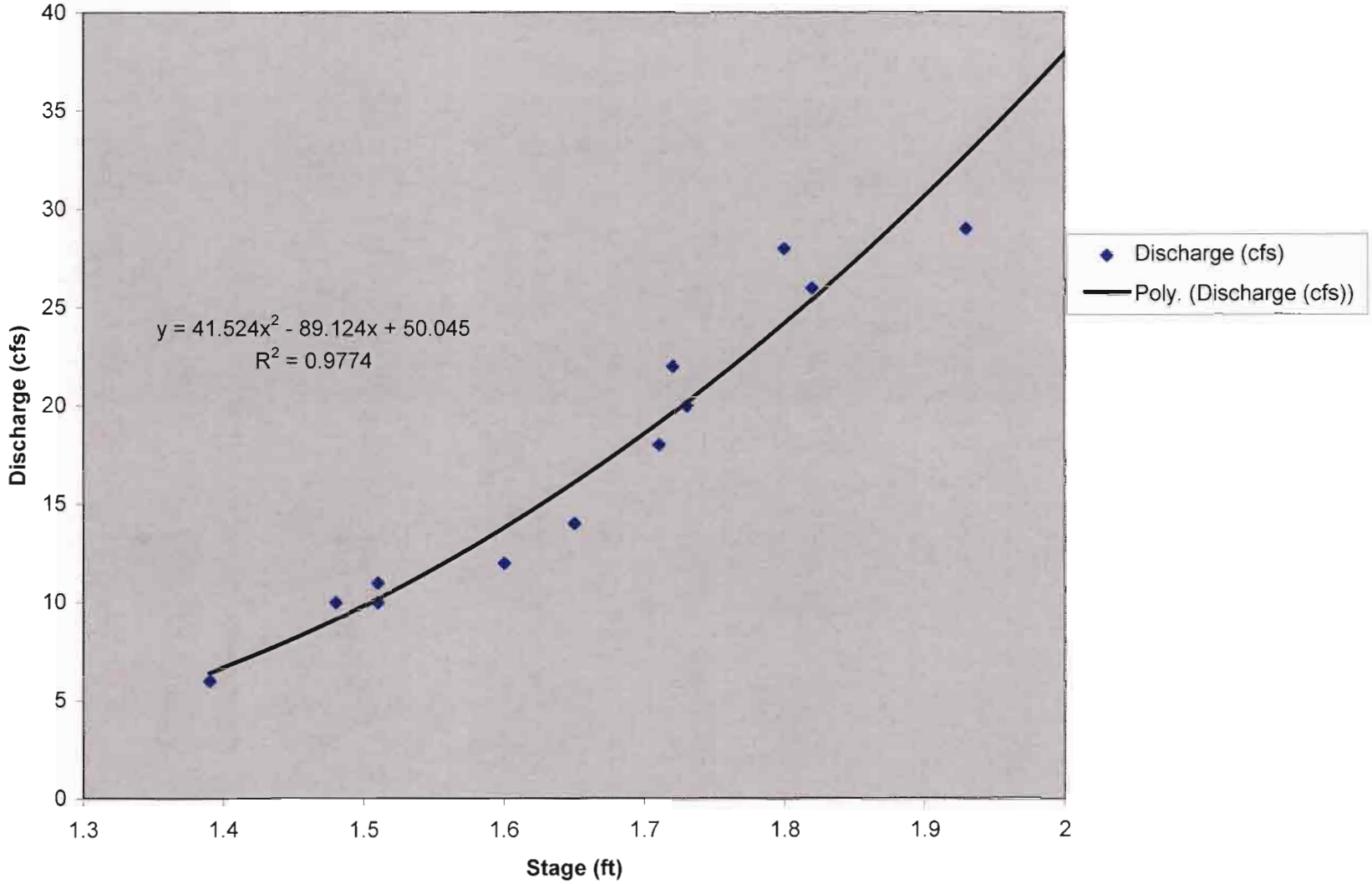


9/1/04-8/31/05

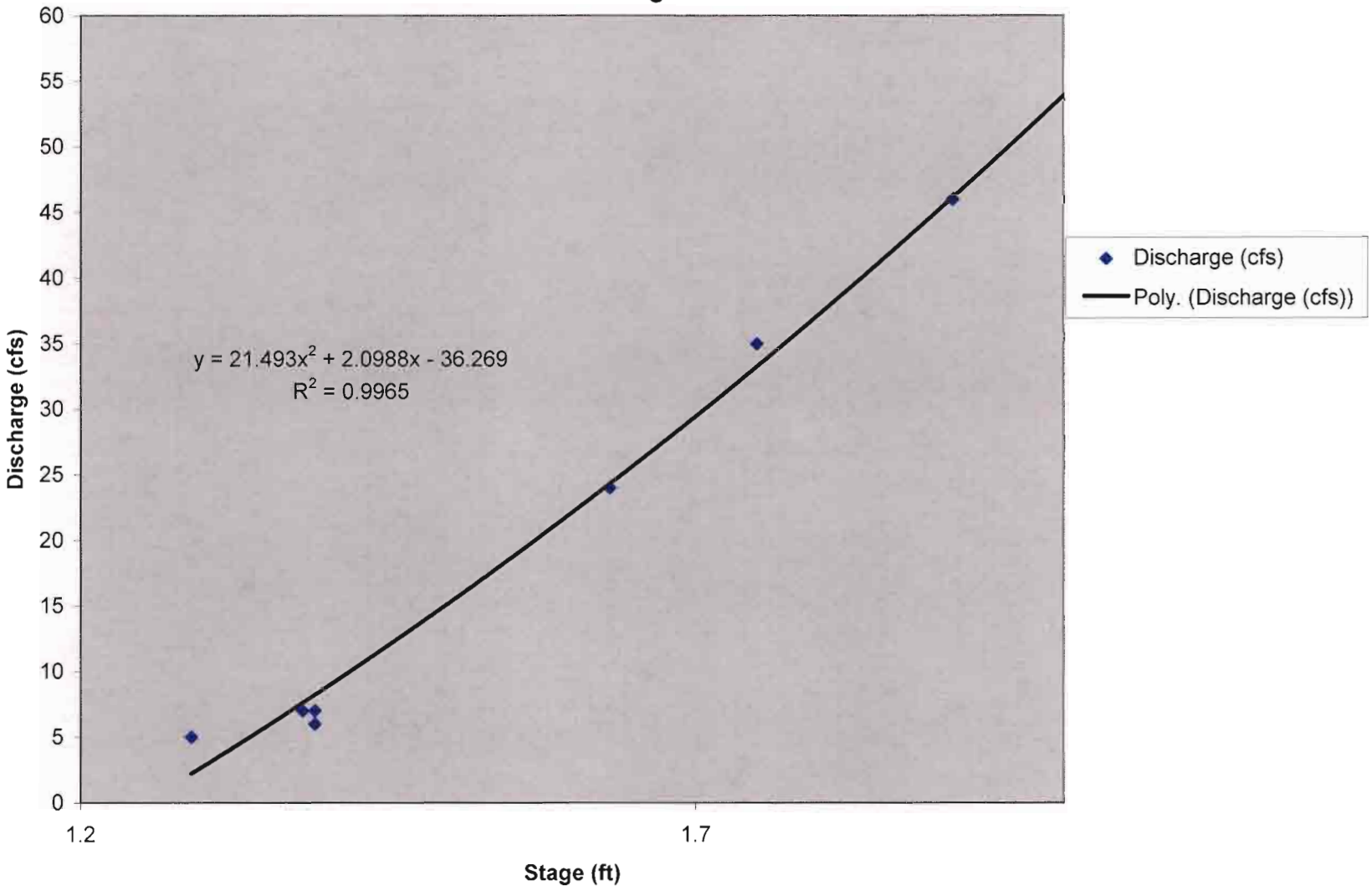
Graph 11.4B: Mullock Creek Monitoring Station Groundwater Elevation/Stage vs Time



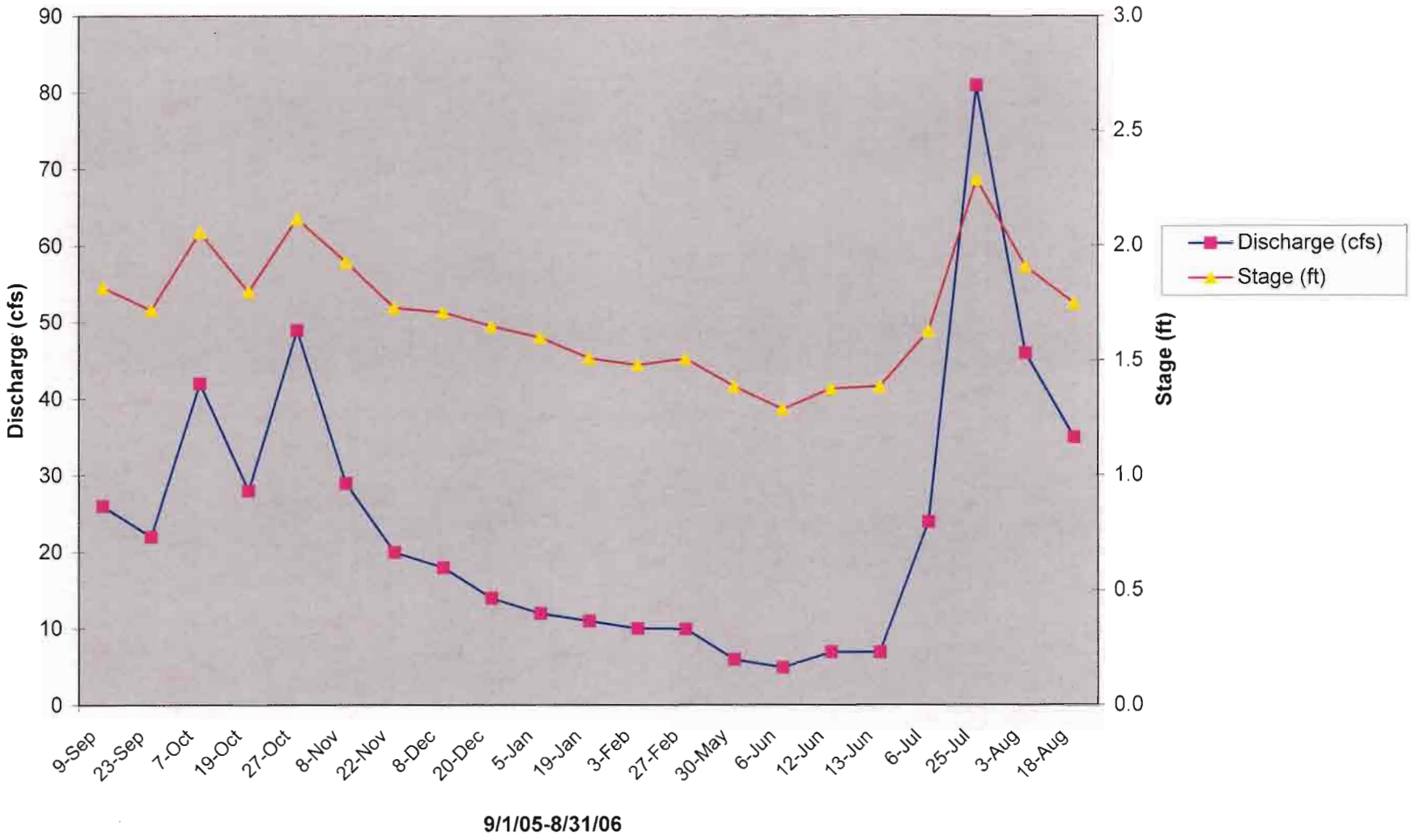
Graph 11.1C: Mullock Creek Monitoring Station Discharge vs Stage Calibration Curve
9/1/05-5/31/06



Graph 11.2C: Mullock Creek Monitoring Station Discharge vs Stage Calibration Curve
6/1/06-8/31/06 Stage >= 1.38 ft.

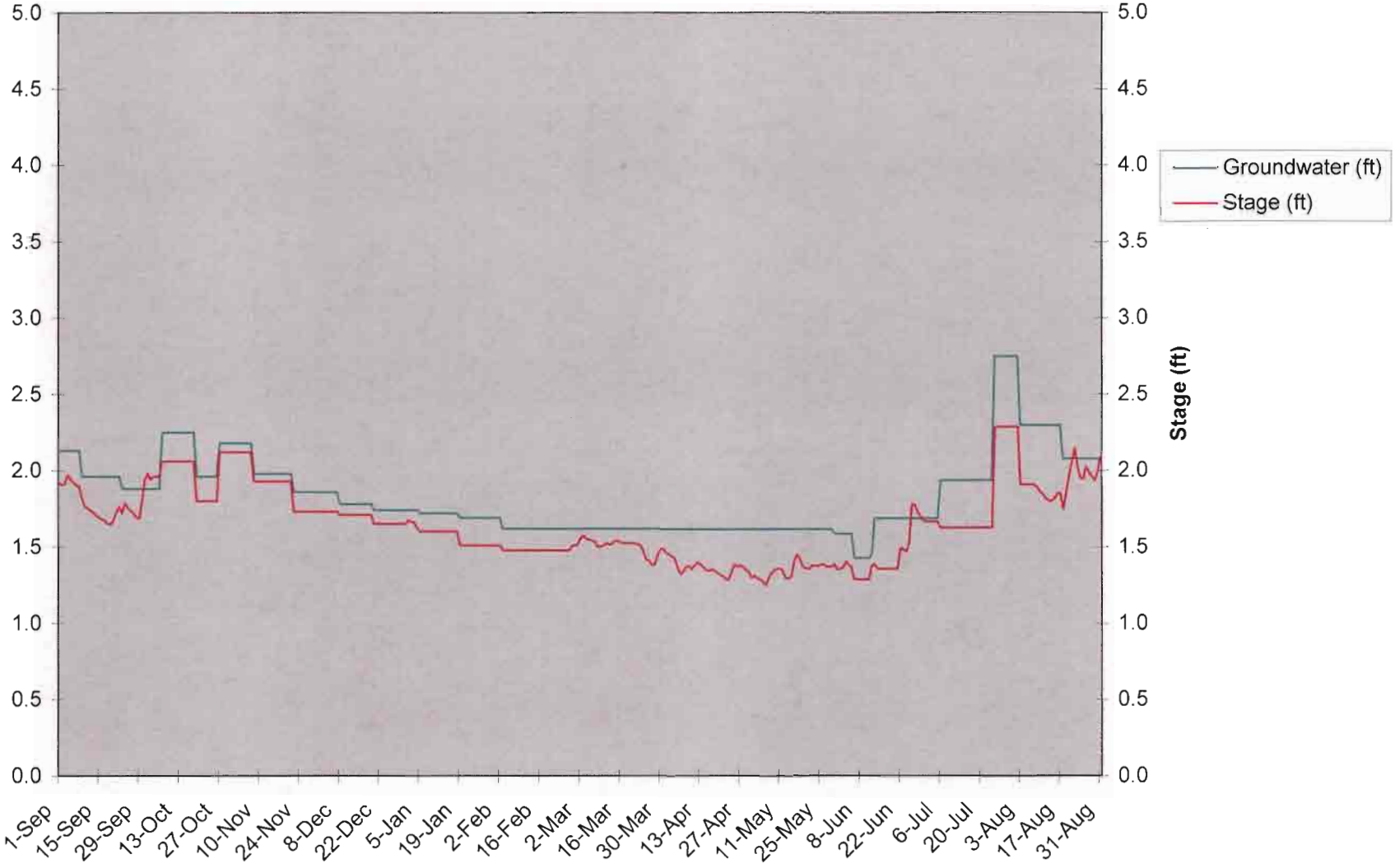


Graph 11.3C: Mullock Creek Monitoring Station Discharge/Stage vs. Time



9/1/05-8/31/06

Graph 11.4C: Mullock Creek Monitoring Station Groundwater Elevation/Stage vs Time



Graph 11.5C: Molluck Creek Monitoring Station Rain\Discharge vs Time