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## **SABINE RIVER AUTHORITY OF TEXAS**

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**TO:** INTERESTED PARTIES  
**FROM:** ENVIRONMENTAL SERVICES DIVISION  
**RE:** MAY 2000 WATER QUALITY MONITORING REPORT

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This is the Sabine River Authority Water Quality Summary for May 2000. Water quality sampling was performed May 9 through May 11. Daytime high air temperatures during the seven days prior to the sampling dates were in the 70's and 80's in the Upper Basin and in the 80's in the Lower Basin. Nighttime lows in the Upper Basin ranged from 50 to 71 degrees. Low temperatures in the Lower Basin ranged from 62 to 73 degrees. The most recent rainfall event was recorded on May 4th after several other recent significant rain events.

### **UPPER SABINE BASIN ABOVE TOLEDO BEND INCLUDING LAKE FORK AND LAKE TAWAKONI**

For the May sample run, most of the water quality values seen at the Upper Basin sites were consistent with water of high quality. Water temperature and dissolved oxygen values at Lake Tawakoni were very similar throughout the water column with no significant thermal stratification. LF2 on Lake Fork Reservoir was the only site that appeared to be thermally stratified. It was weakly stratified between seven and eight meters. LT23D on Lake Tawakoni was unusually muddy, possibly due to strong winds as recorded on field notes. This site had a secchi depth of 0.17 m and turbidity of 80.1 NTU. River sites were normal with the exception of elevated ammonia at SR14.

## SABINE RIVER AUTHORITY OF TEXAS: WATER QUALITY MONITORING REPORT

### **LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF**

May WQM sampling results were indicative of high water quality at most sites. The level of the reservoir was near pool level during sampling due to heavy rains the previous week. Profiles taken at deep-water stations on the reservoir exhibited thermal stratification with near anoxic conditions at the deepest depths. Station TB6N had fecal and streptococcus counts above stream standards. Station TB6N is sampled from a bayou that receives discharge from a wastewater treatment plant. Low oxygen readings were recorded at sites TB6, TB6I, and TB6M. These low levels of dissolved oxygen could be attributed to the decomposition of recently flooded vegetation. Station BA4 had higher sulfate and nitrite/nitrate levels compared to other stations sampled during this time. Station BA4 is sampled from a bayou that receives discharge from a paper mill.

### **TIDAL SECTION OF THE SABINE BASIN BELOW MORGAN BLUFF**

Stations sampled in the tidal portion of the Sabine Basin had values that were consistent with water of high quality. All values measured were within stream standards criteria. Heavy rains the week previous to sampling caused the river to have a flushing event. This accounts for above average flow and no discernible salinity readings at tidal stations. A salt-water wedge was not detected at the deepest profile taken nor was there any thermal stratification observed.

This Report and additional data for these monitoring stations are available on our World Wide Web site ([www.sra.dst.tx.us](http://www.sra.dst.tx.us)). If you have any questions or comments concerning this report, please contact:

- *Upper Sabine Basin*  
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903-878-2420 ([sraubfo@yahoo.com](mailto:sraubfo@yahoo.com))
- *Lower and Tidal Sabine Basin*  
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Miles Hall, Assistant Division Manager Environmental Services  
409-746-3284 ([mhall@sra.dst.tx.us](mailto:mhall@sra.dst.tx.us))

# SABINE RIVER AUTHORITY OF TEXAS

## Water Quality Monitoring Program

May 2000

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#### Appendix

2000 SRA WQMP Stations, by Reach

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# *Current WQMP Stations*

## *Upper Sabine Basin*

<i>SW</i>	<i>Segment Station</i>	<i>Location</i>
7.00	0507 10440 (LT23C)	LAKE TAWAKONI AT COWLEECH FORK
7.00	0507 10435 (LT23D)	LAKE TAWAKONI IN KITSEE INLET
7.00	0507 10434 (LT23A)	LAKE TAWAKONI IN MAIN LAKE
6.12	0512 16691 (LF7)	LAKE FORK RESERVOIR 3.7KM UPSTREAM OF FM2946 AT BOUY #63
6.12	0512 10461 (LF3)	LAKE FORK RES AT CANEY CREEK ARM
6.12	0512 10462 (LF4)	LAKE FORK RES AT LAKE FORK CREEK ARM
6.12	0512 10458 (LF2)	LAKE FORK RES NEAR DAM
6.10	0515 10469 (LF20)	LAKE FORK CREEK AT US 80
6.02	0514 10467 (BS18)	BIG SANDY CREEK AT US 80
6.00	0506 10430 (SR21)	SABINE RIVER AT US 69
6.00	0506 10429 (SR19)	SABINE RIVER AT FM 14
5.00	0505 10428 (SR17)	SABINE RIVER AT US 271
5.00	0505 10427 (SR16)	SABINE RIVER AT SH 42
5.00	0505 10426 (SR15)	SABINE RIVER AT US 259
5.00	0505 10423 (SR14)	SABINE RIVER AT SH 149
5.00	0505 13628 (SR11)	SABINE RIVER AT US 59
5.00	0505 10415 (SR10)	SABINE RIVER AT FM 2517

**SABINE RIVER AUTHORITY OF TEXAS**  
 Upper Sabine Basin Report  
 May 2000

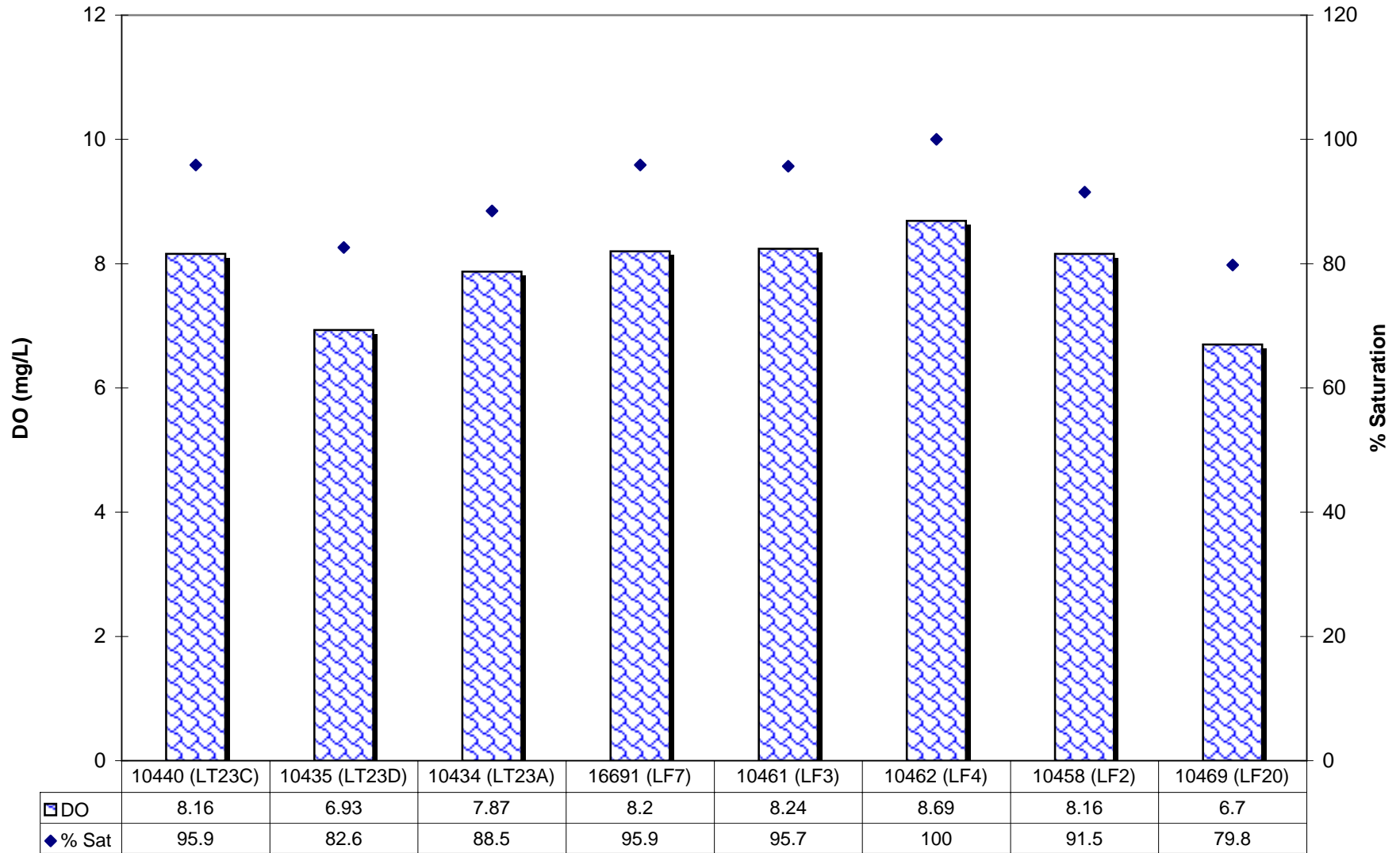
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho-Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
5/9/00 1:00 PM	7.00	10440 (LT23C)	23.4	8.24	8.16	95.9	203	*	0.41	23.1	5	*	24	< 0.001	*	*	4	78	80	5.6	12.5
5/9/00 12:05 PM	7.00	10435 (LT23D)	24.4	7.8	6.93	82.6	231	*	0.17	80.1	57	*	26.4	0.061	*	*	6	84	88	6.7	16.4
5/9/00 11:10 AM	7.00	10434 (LT23A)	21.1	7.97	7.87	88.5	197	*	0.95	5.06	< 2	*	23.2	0.011	*	*	4	79	74	5.4	11.9
5/9/00 10:11 AM	6.12	16691 (LF7)	23.2	7.37	8.2	95.9	169	*	0.91	4.98	< 2	*	17.6	0.001	*	*	5	24	44	14.2	28.9
5/9/00 9:16 AM	6.12	10461 (LF3)	22.7	7.42	8.24	95.7	166	*	1.13	5.48	2	*	18.4	0.002	*	*	10	29	44	15.4	22
5/9/00 9:42 AM	6.12	10462 (LF4)	22.4	7.65	8.69	100	161	*	1.24	3.58	< 2	*	10.4	0.003	*	*	5	26	40	14.5	23.2
5/9/00 8:32 AM	6.12	10458 (LF2)	21	7.16	8.16	91.5	157	*	1.58	3.69	5	*	14.4	0.002	*	*	5	29	40	14.2	21.2
5/9/00 2:46 PM	6.10	10469 (LF20)	24.1	6.94	6.7	79.8	337	*	0.34	43.3	63	*	*	0.028	*	*	5	24	68	56	38.1
5/10/00 7:59 AM	6.02	10467 (BS18)	22.6	6.29	6.58	76.1	178	*	0.59	17.1	73	*	*	0.046	*	*	10	13	40	24.1	25
5/9/00 2:23 PM	6.00	10430 (SR21)	24.1	6.88	5.23	62.2	301	*	0.28	73.5	130	*	*	0.072	*	*	19	39	76	36.7	39.1
5/9/00 3:07 PM	6.00	10429 (SR19)	24.4	7.05	6.62	79.1	341	*	0.28	57.1	188	*	*	0.026	*	*	8	40	80	45.9	43.3
5/10/00 8:19 AM	5.00	10428 (SR17)	23.3	6.64	6.3	73.9	244	*	0.34	51.5	112	*	*	0.06	*	*	9	22	52	34	31.7
5/10/00 8:42 AM	5.00	10427 (SR16)	23.4	6.65	6	70.4	332	*	0.32	58	120	*	*	< 0.001	*	*	8	23	56	59.7	32
5/10/00 8:59 AM	5.00	10426 (SR15)	23.5	6.78	6.28	73.9	334	*	0.35	48.5	47	*	*	< 0.001	*	*	7	23	52	61.2	30.6
5/10/00 9:19 AM	5.00	10423 (SR14)	23.3	6.76	6.4	75.3	453	*	0.38	38.5	132	*	*	0.164	*	*	6	25	64	94	32.3
5/10/00 10:00 AM	5.00	13628 (SR11)	23.6	6.87	6.56	77.4	232	*	0.38	44	84	*	*	0.043	*	*	7	27	48	30.8	28.4
5/10/00 10:31 AM	5.00	10415 (SR10)	23.9	6.8	6.51	77.2	213	*	0.36	45.7	63	*	*	0.031	*	*	8	25	48	27.8	26.5

\*: Not sampled on this run

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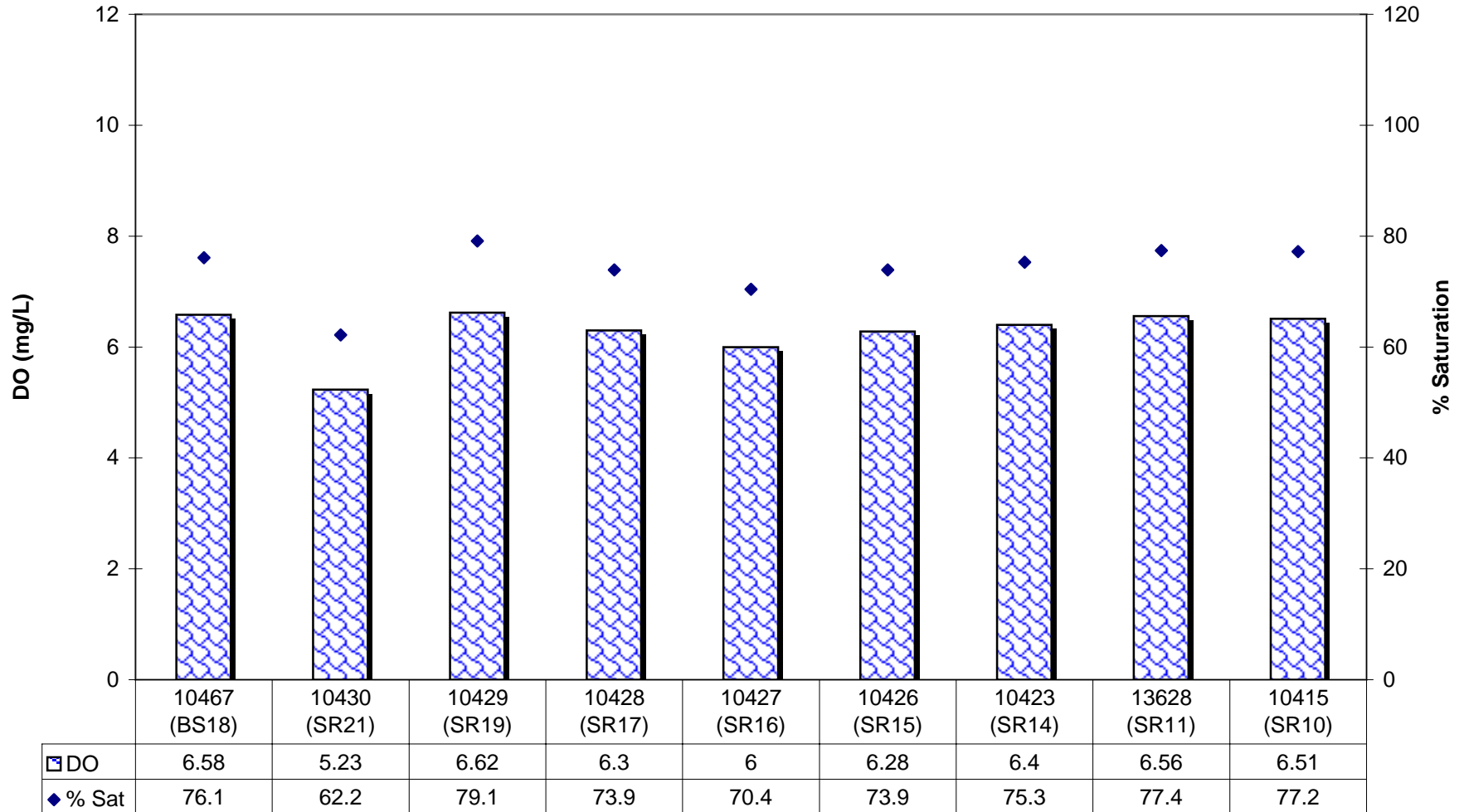
## Upper Sabine Basin DO / % Saturation (1 of 2)



# SABINE RIVER AUTHORITY OF TEXAS

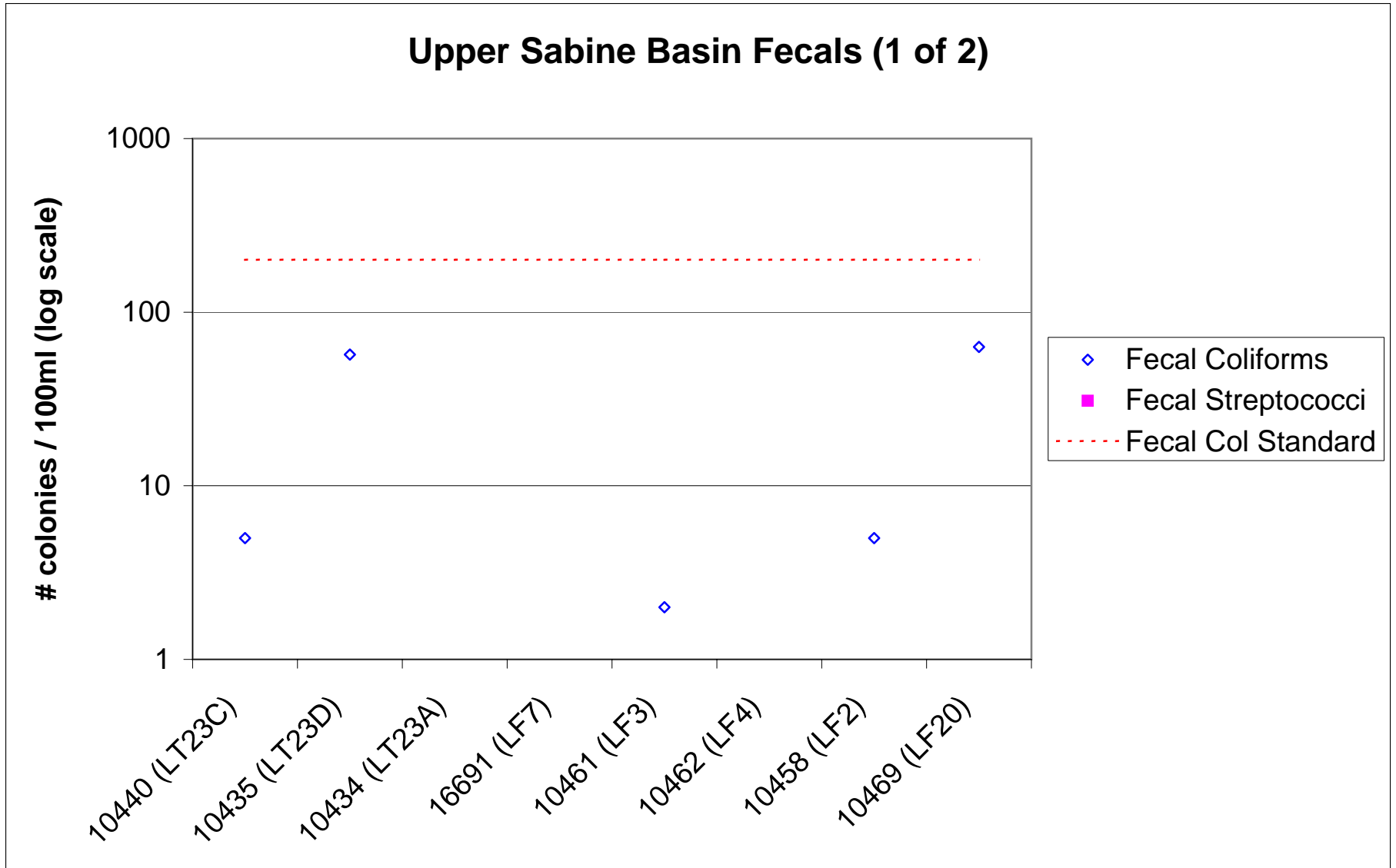
May 2000

## Upper Sabine Basin DO / % Saturation (2 of 2)



# SABINE RIVER AUTHORITY OF TEXAS

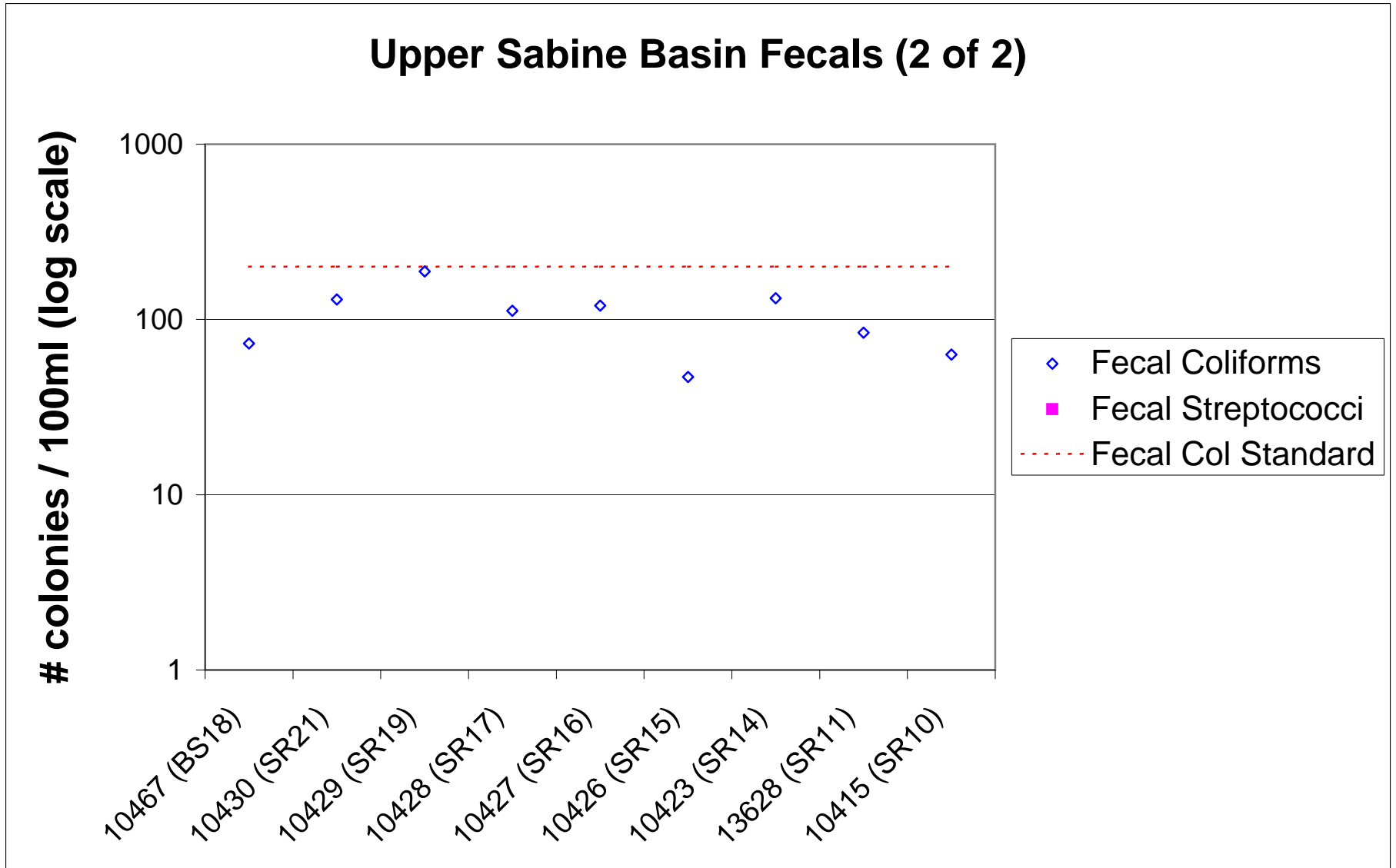
May 2000



Stations without values were below detection limit or not sampled on this run (see page 2).

# SABINE RIVER AUTHORITY OF TEXAS

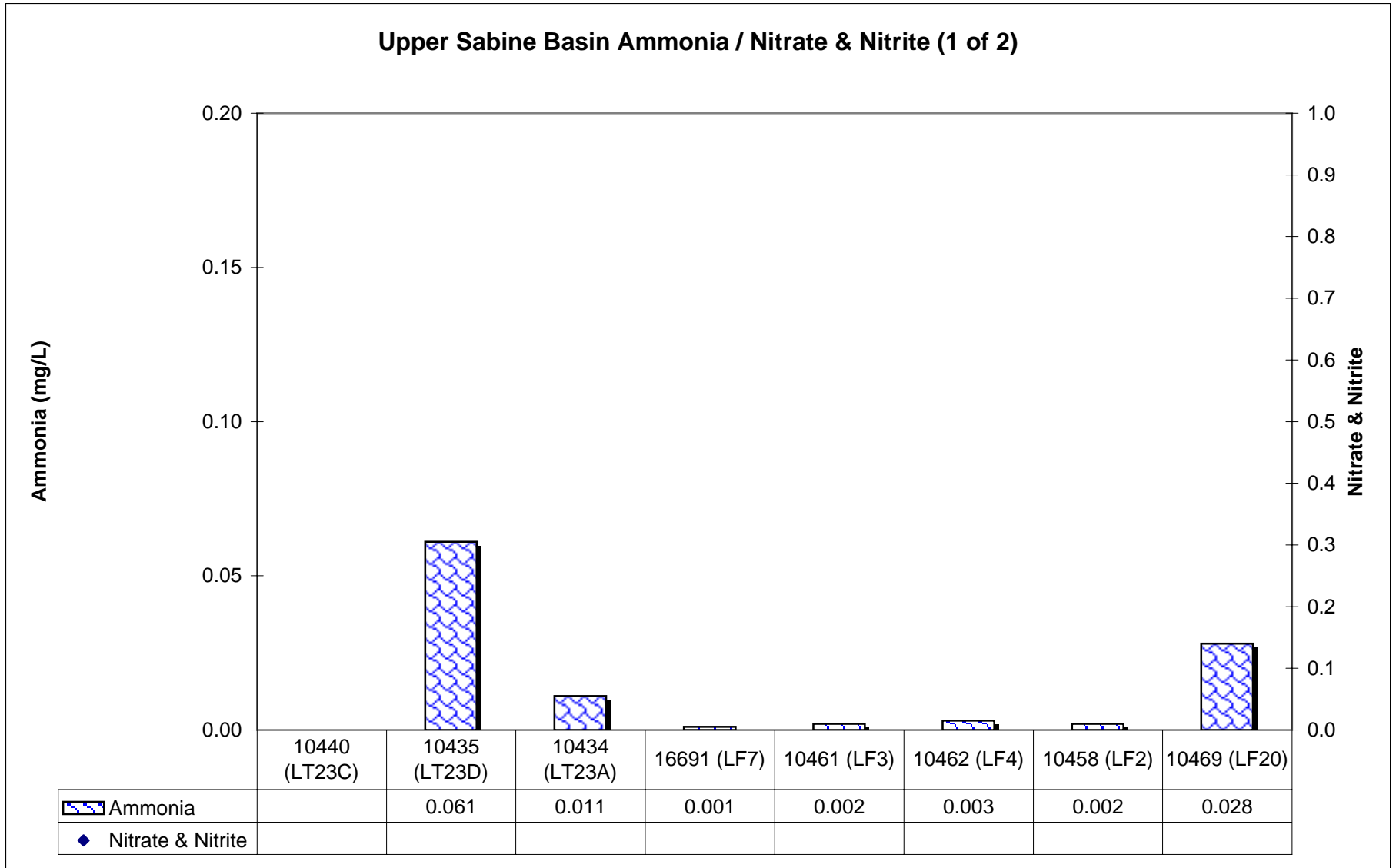
May 2000



Stations without values were below detection limit or not sampled on this run (see page 2).

# SABINE RIVER AUTHORITY OF TEXAS

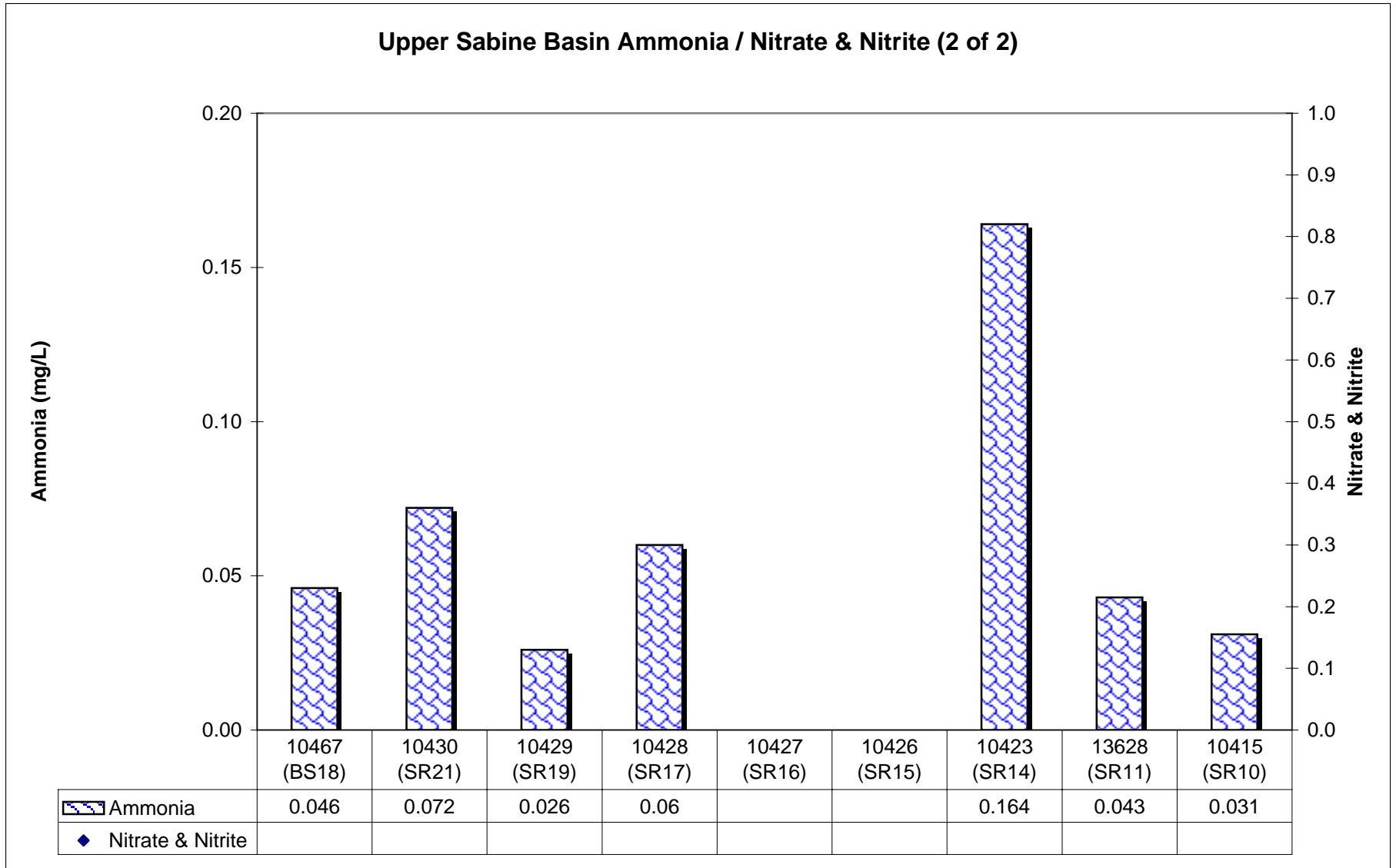
May 2000



Stations without values were below detection limit or not sampled on this run (see page 2).

# SABINE RIVER AUTHORITY OF TEXAS

May 2000



Stations without values were below detection limit or not sampled on this run (see page 2).

**SABINE RIVER AUTHORITY OF TEXAS**

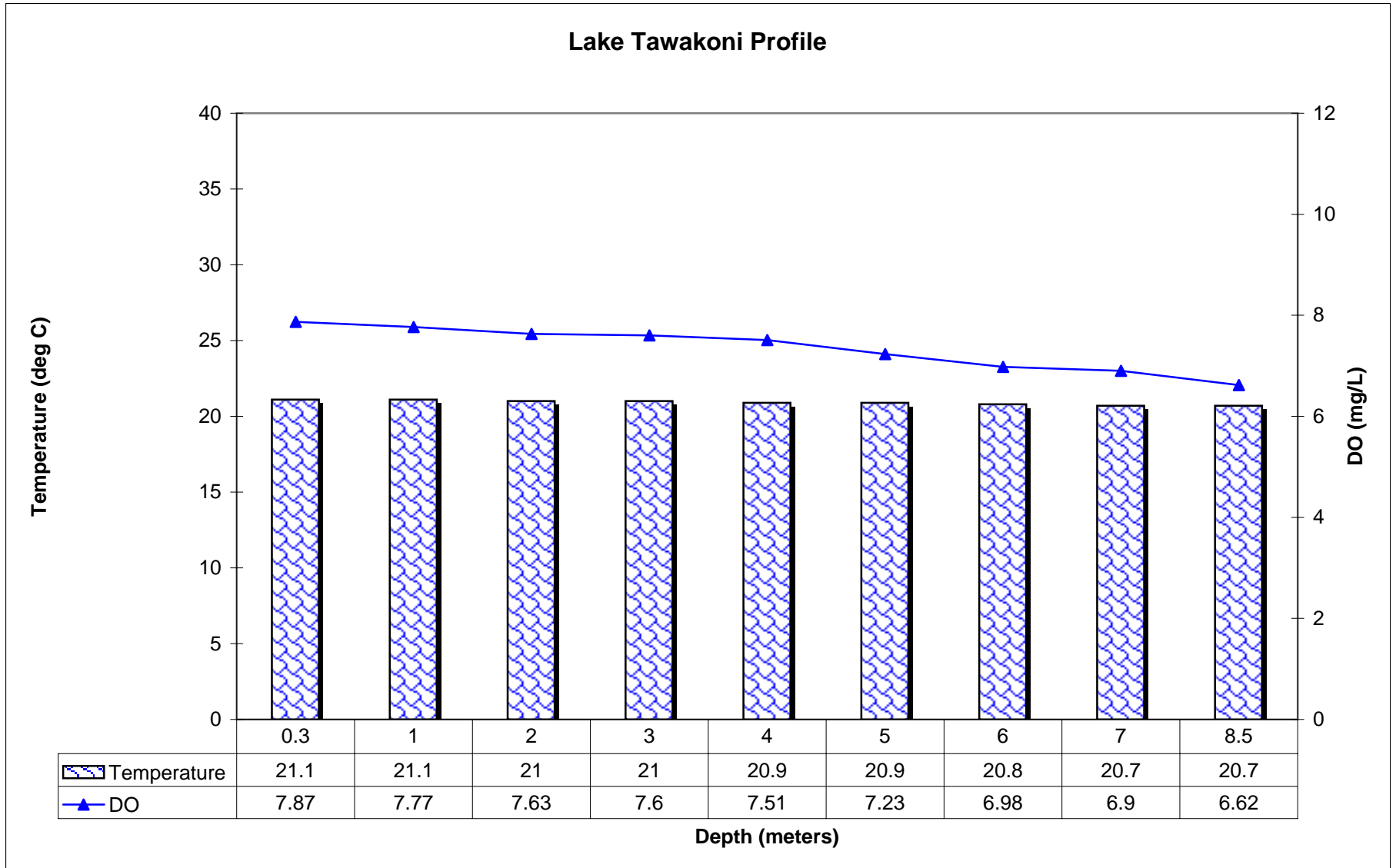
Upper Basin Profiles

May 2000

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094			
5/9/00 1:00 PM	7.00	10440 (LT23C)	0.3	23.4	8.24	8.16	95.9	203			
			1	23.4	8.25	8.17	96.1	198			
			2.7	23.4	8.26	8.17	95.8	198			
5/9/00 12:05 PM	7.00	10435 (LT23D)	0.3	24.4	7.8	6.93	82.6	231			
			1	24.3	7.79	6.85	82.4	231			
			2	24	7.81	6.87	81	225			
			4	23.7	7.86	7.07	83.6	216			
			6	23.5	7.88	7.12	83.5	215			
5/9/00 11:10 AM	7.00	10434 (LT23A)	0.3	21.1	7.97	7.87	88.5	197			
			1	21.1	7.95	7.77	88	197			
			2	21	7.91	7.63	86.5	196			
			3	21	7.9	7.6	85.3	196			
			4	20.9	7.88	7.51	84	196			
			5	20.9	7.83	7.23	81.5	194			
			6	20.8	7.78	6.98	78.1	195			
			7	20.7	7.77	6.9	77	201			
5/9/00 10:11 AM	6.12	16691 (LF7)	0.3	23.2	7.37	8.2	95.9	169			
			1	23.2	7.36	8.18	95.3	168			
			2	23.2	7.33	8.16	95.5	169			
			3	23.1	7.32	8.15	95.9	169			
			4	23.1	7.28	8.02	93.9	170			
			5.1	23	7.25	7.74	90.3	169			
			5/9/00 9:16 AM	6.12	10461 (LF3)	0.3	22.7	7.42	8.24	95.7	166
						1	22.7	7.4	8.22	95.4	165
2	22.6	7.34				7.97	92.4	165			
3	22.6	7.28				7.85	90.9	166			
4	22.6	7.27				7.76	89.8	167			
5	22.6	7.26				7.74	89.6	167			
6	22.6	7.24				7.67	88.8	170			
7	22.5	7.25				7.7	88.9	171			
8	22.5	7.24				7.84	90.9	169			
9.2	22.4	7.22	7.38	85.2	165						
05/09/2000 9:42	6.12	10462 (LF4)	0.3	22.4	7.65	8.69	100	161			
			1	22.4	7.6	8.67	99.6	163			
			2	22.3	7.53	8.51	98.2	164			
			3	22.3	7.49	8.45	97	161			
			4	22.2	7.45	8.41	96.8	160			
			5	22.2	7.38	8.33	95.6	158			
			7	21.9	7.29	8.03	92.1	161			
			8	21.8	7.23	7.7	87.4	161			
			9	21.8	7.19	7.59	86.4	162			
			10.6	21.6	7.16	6.62	77.6	155			
05/09/2000 8:32	6.12	10458 (LF2)	0.3	21	7.16	8.16	91.5	157			
			1	21	7.14	8.13	91.1	158			
			2	21	7.12	8.04	90.9	156			
			3	21	7.1	8.01	89.9	159			
			4	20.9	7.06	7.98	89.6	156			
			6	20.8	6.97	7.86	88	162			
			7	20.7	6.89	7.65	85.7	162			
			8	19.5	6.77	5.66	61.8	153			
			9	19.2	6.75	5.27	57.1	152			
			10	18.8	6.72	4.39	47	153			
			11	18.4	6.72	4.15	44.4	156			
			12.8	17.5	6.71	2.96	31.4	162			

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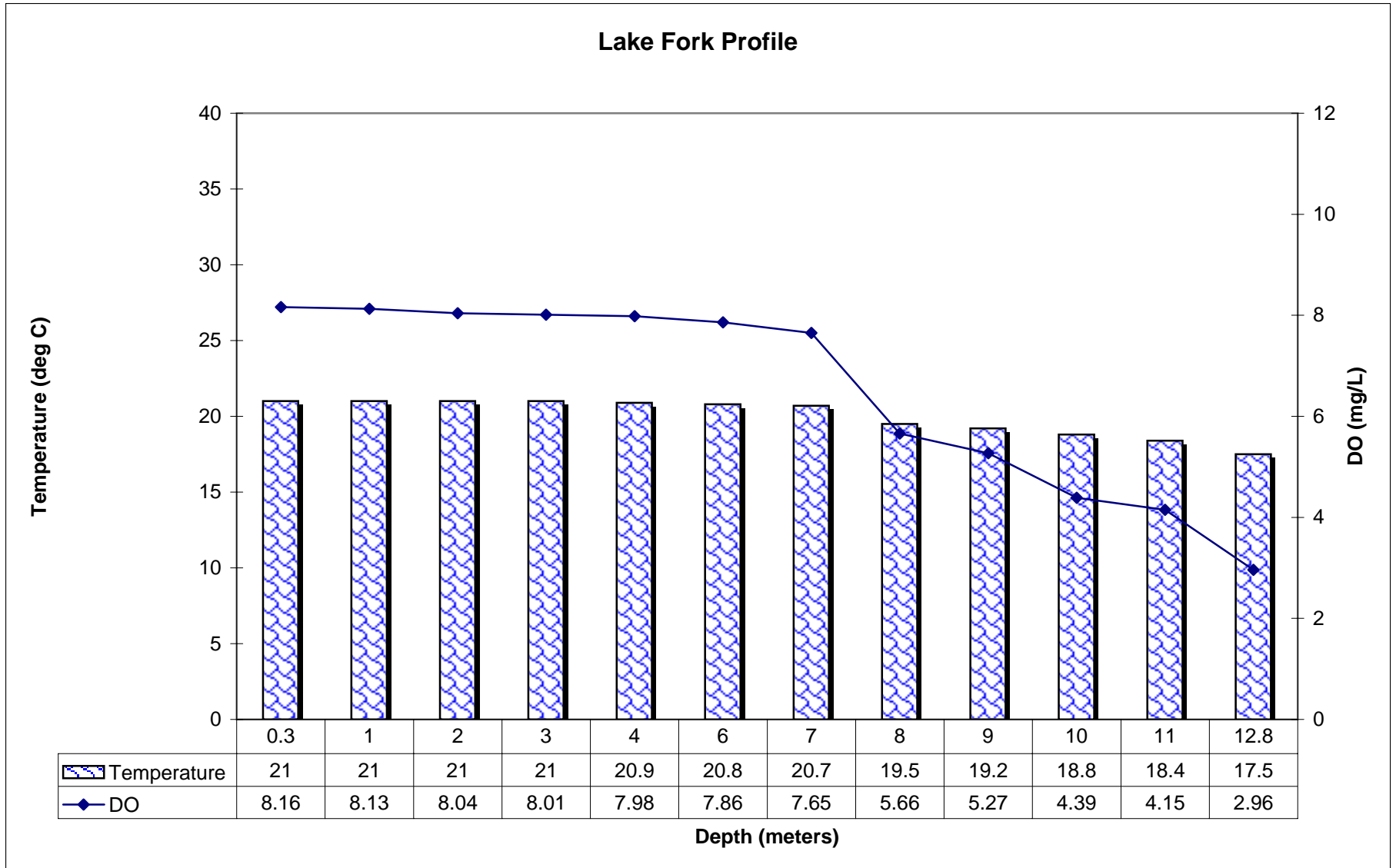
May 2000



For Station 10434 (LT23A): LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM IN THE OLD RIVER CHANNEL

# SABINE RIVER AUTHORITY OF TEXAS

May 2000



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## Lake Tawakoni Weather and Reservoir Data

May 2000

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
05/01/2000	432.16	(5.34)	5	79	60	0.80	0.30
05/02/2000	432.15	(5.35)	5	74	58	0.00	0.17
05/03/2000	432.16	(5.34)	5	79	55	0.31	0.32
05/04/2000	432.19	(5.31)	5	74	57	0.27	0.10
05/05/2000	432.23	(5.27)	5	75	61	0.02	0.14
05/06/2000	432.25	(5.25)	5	80	64	0.00	0.00
05/07/2000	432.30	(5.20)	5	84	69	0.00	0.00
05/08/2000	432.32	(5.18)	5	87	68	0.00	0.28
05/09/2000	432.34	(5.16)	5	88	72	0.00	0.37
05/10/2000	432.33	(5.17)	5	78	55	0.02	0.23
05/11/2000	432.31	(5.19)	5	86	60	0.00	0.07
05/12/2000	432.30	(5.20)	5	90	75	0.00	0.37
05/13/2000	432.35	(5.15)	5	90	60	0.25	0.29
05/14/2000	432.29	(5.21)	5	78	48	0.00	0.35
05/15/2000	432.25	(5.25)	5	80	50	0.00	0.35
05/16/2000	432.20	(5.30)	5	84	60	0.00	0.31
05/17/2000	432.22	(5.28)	5	87	50	0.00	0.30
05/18/2000	432.19	(5.31)	5	80	70	0.00	0.42
05/19/2000	432.34	(5.16)	5	78	59	1.60	0.00
05/20/2000	432.51	(4.99)	5	68	60	1.14	0.00
05/21/2000	432.57	(4.93)	5	80	60	0.00	0.31
05/22/2000	432.69	(4.81)	5	87	64	0.00	0.06
05/23/2000	432.57	(4.93)	5	82	54	0.00	0.52
05/24/2000	432.55	(4.95)	5	92	73	0.00	0.44
05/25/2000	432.55	(4.95)	5	94	74	0.00	0.42
05/26/2000	432.53	(4.97)	5	93	76	0.00	0.38
05/27/2000	432.52	(4.98)	5	92	76	0.00	0.26
05/28/2000	432.55	(4.95)	5	90	67	0.29	0.29
05/29/2000	432.54	(4.96)	5	90	67	0.00	0.29
05/30/2000	432.52	(4.98)	5	92	67	0.00	0.30
05/31/2000	432.52	(4.98)	5	93	72	0.00	0.37
<b>Avg or Tot</b>	432.37	(5.13)	5	84	63	4.70	8.01

	Avg	Avg	Avg	Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs	Deg F	Deg F	Inches	Inches
		Instantaneous appx. 8 a.m.					

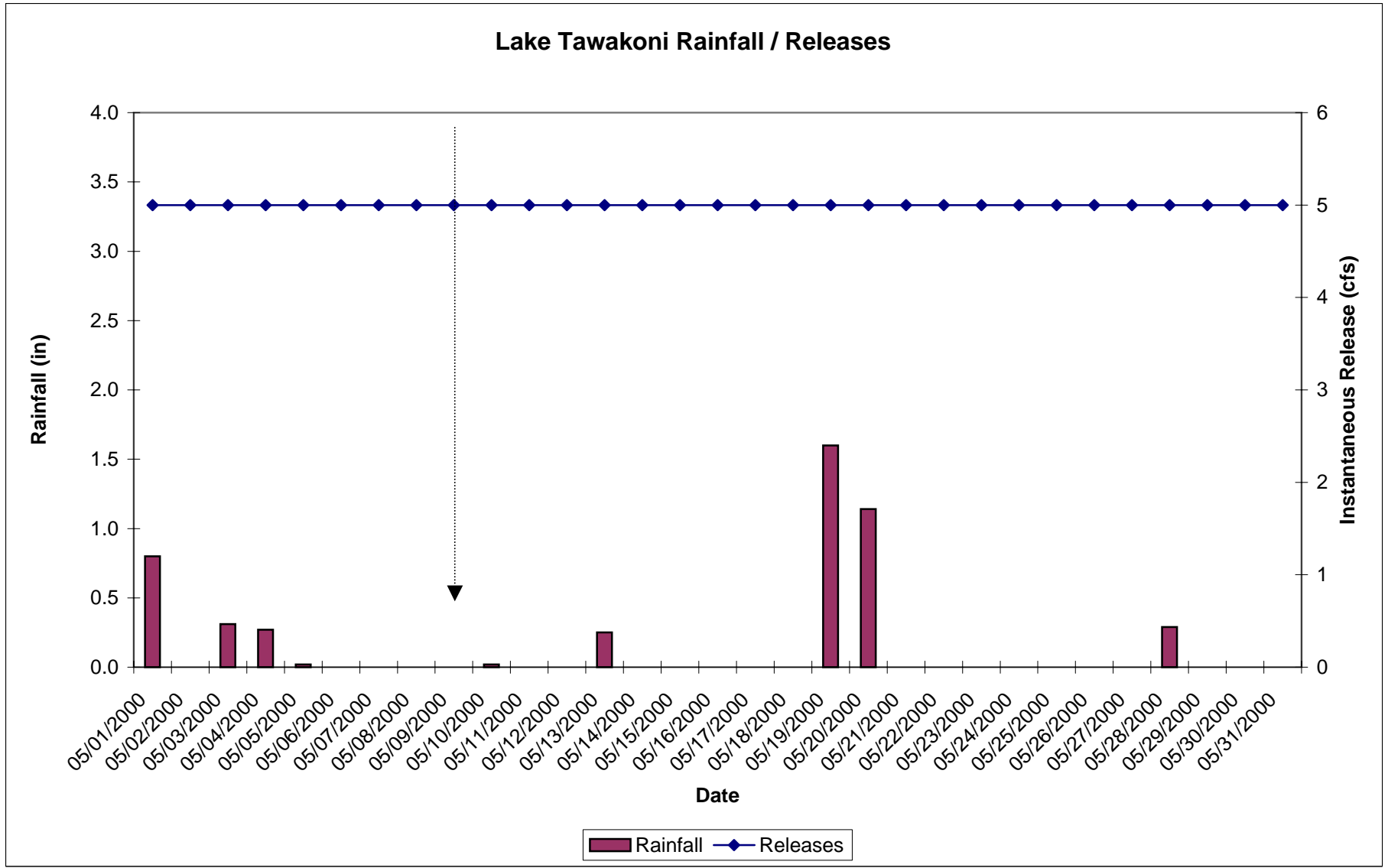
NR: No Reading

TOP: Top of Pool = 437.5 Feet M.S.L.

Lake Tawakoni Sampled on 5/9/2000

# SABINE RIVER AUTHORITY OF TEXAS

May 2000



Please Note : Lake Tawakoni has an uncontrolled spillway.

# SABINE RIVER AUTHORITY OF TEXAS

## Lake Fork Weather and Reservoir Data

May 2000

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
05/01/2000	400.79	(2.21)	48	48	79	61	0.63	0.00
05/02/2000	400.79	(2.21)	28	28	75	61	0.02	0.13
05/03/2000	400.79	(2.21)	28	28	77	64	0.36	0.00
05/04/2000	400.84	(2.16)	28	28	74	60	0.73	0.00
05/05/2000	400.84	(2.16)	28	28	74	60	0.09	0.00
05/06/2000	400.84	(2.16)	28	28	79	64	0.05	0.04
05/07/2000	400.84	(2.16)	28	28	86	50	0.00	0.54
05/08/2000	400.84	(2.16)	28	28	86	70	0.00	0.27
05/09/2000	400.84	(2.16)	28	28	86	71	0.00	0.42
05/10/2000	400.84	(2.16)	28	28	78	61	0.00	0.09
05/11/2000	400.84	(2.16)	28	28	84	78	0.00	0.14
05/12/2000	400.84	(2.16)	28	28	88	76	0.00	0.37
05/13/2000	400.84	(2.16)	28	28	88	64	0.09	0.14
05/14/2000	400.79	(2.21)	28	28	80	48	0.00	0.21
05/15/2000	400.79	(2.21)	28	28	78	54	0.00	0.39
05/16/2000	400.74	(2.26)	28	28	82	62	0.00	0.28
05/17/2000	400.74	(2.26)	28	28	86	68	0.00	0.17
05/18/2000	400.69	(2.31)	28	28	87	70	0.00	0.27
05/19/2000	400.94	(2.06)	28	28	86	64	1.69	0.00
05/20/2000	401.09	(1.91)	28	28	69	62	0.06	0.00
05/21/2000	401.09	(1.91)	28	28	80	62	0.00	0.13
05/22/2000	401.14	(1.86)	28	28	86	64	0.00	0.18
05/23/2000	401.14	(1.86)	28	28	90	69	0.00	0.55
05/24/2000	401.09	(1.91)	28	28	90	74	0.00	0.34
05/25/2000	401.09	(1.91)	28	28	91	77	0.00	0.31
05/26/2000	401.09	(1.91)	28	28	90	76	0.00	0.49
05/27/2000	401.09	(1.91)	28	28	88	78	0.00	0.28
05/28/2000	401.09	(1.91)	28	28	88	68	0.26	0.02
05/29/2000	401.09	(1.91)	28	28	88	62	0.00	0.26
05/30/2000	401.09	(1.91)	28	28	91	70	0.00	0.33
05/31/2000	401.04	(1.96)	28	28	84	72	0.00	0.25
<b>Avg or Tot</b>	400.92	(2.08)	29	29	83	66	3.98	6.60

Avg	Avg	Avg	Avg	Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs	cfs	Deg F	Deg F	Inches Inches
			Previous 24 hrs				

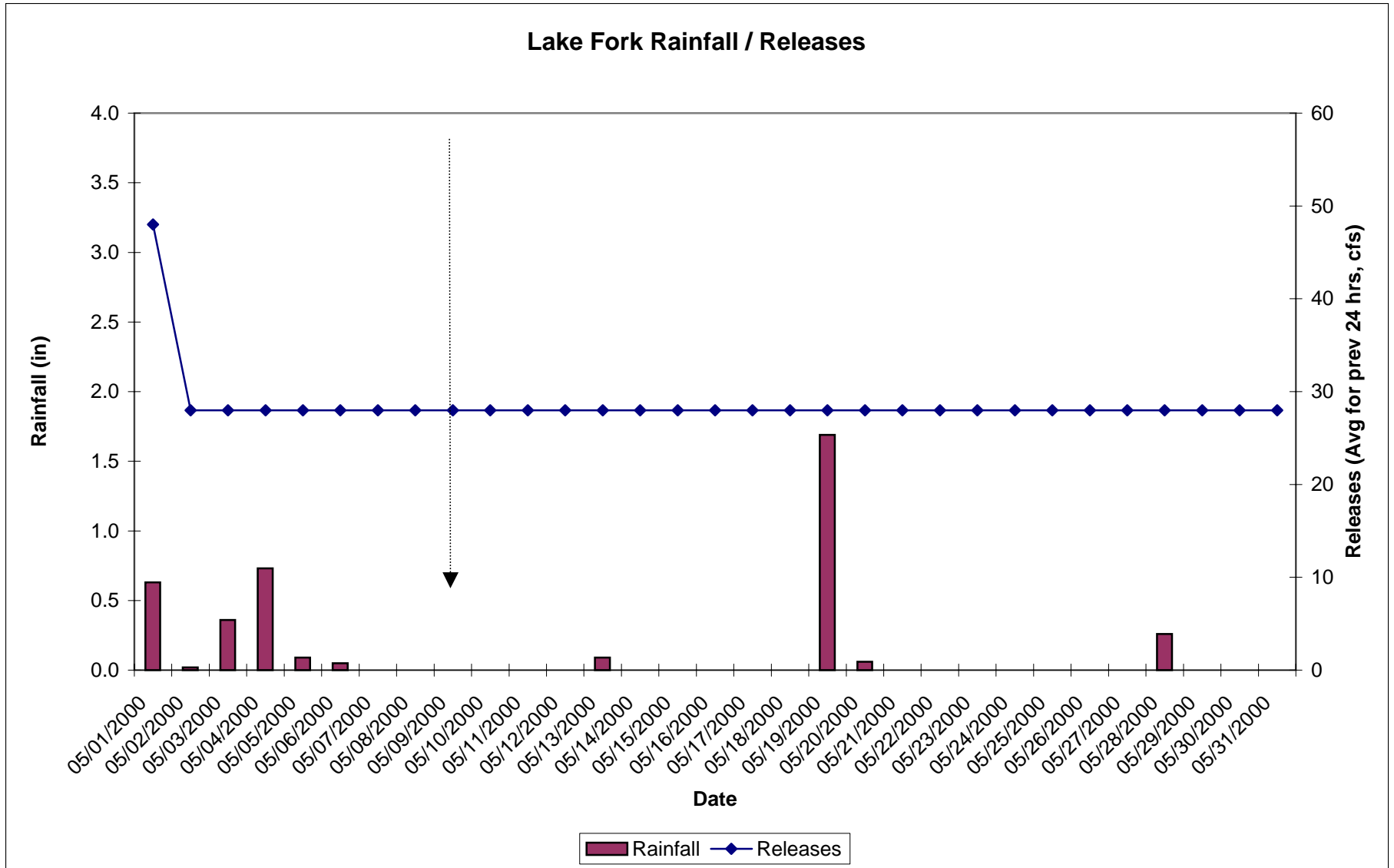
TOP: Top of Pool = 403 Feet M.S.L.

FRZN: Gauge Frozen

Lake Fork Sampled on 5/9/2000

# SABINE RIVER AUTHORITY OF TEXAS

May 2000



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# *Current WQMP Stations*

## *Lower Sabine Basin*

<i>SW</i>	<i>Segment Station</i>	<i>Location</i>
4.10	0504 15658 (TB6N)	BAYOU SCIE AT LA SH 91
4.00	0504 10403 (TB8)	TOLEDO BEND RESERVOIR AT US 84
4.00	0504 10412 (TB6I)	TOLEDO BEND RESERVOIR AT TENAHA CREEK
4.00	0504 15657 (TB6M)	TOLEDO BEND RESERVOIR IN SAN PATRICIA ARM
4.00	0504 15656 (TB6L)	TOLEDO BEND RESERVOIR IN SAN MIGUEL ARM
4.00	0504 15655 (TB6J)	TOLEDO BEND RESERVOIR PATROON BAYOU BRANCH
4.00	0504 15659 (TB6K)	TOLEDO BEND RESERVOIR IN LANANA BAYOU
4.00	0504 10402 (TB6H)	TOLEDO BEND RESERVOIR AT SH 21
4.00	0504 10411 (TB6F)	TOLEDO BEND RESERVOIR IN SUNSHINE BAY
4.00	0504 10407 (TB6CN)	TOLEDO BEND RESERVOIR IN SIX MILE BOAT LANE
4.00	0504 10404 (TB6A)	TOLEDO BEND RESERVOIR ABOVE THE DAM
3.03	0503 10340 (BA4)	ANACOCO BAYOU AT LA HWY 111
3.00	0503 10401 (TB6S)	SABINE RIVER AT TOLEDO BEND SPILLWAY
3.00	0503 10400 (TB6)	SABINE RIVER BELOW POWERHOUSE
3.00	0503 10399 (SR5)	SABINE RIVER AT SH 63
3.00	0503 10398 (SR3)	SABINE RIVER AT US 190
2.05	0513 10465 (BCC1)	BIG COW CREEK AT FM 1416
2.00	0503 10397 (SR2)	SABINE RIVER AT SH 12

# SABINE RIVER AUTHORITY OF TEXAS

## Lower Basin Report

May 2000

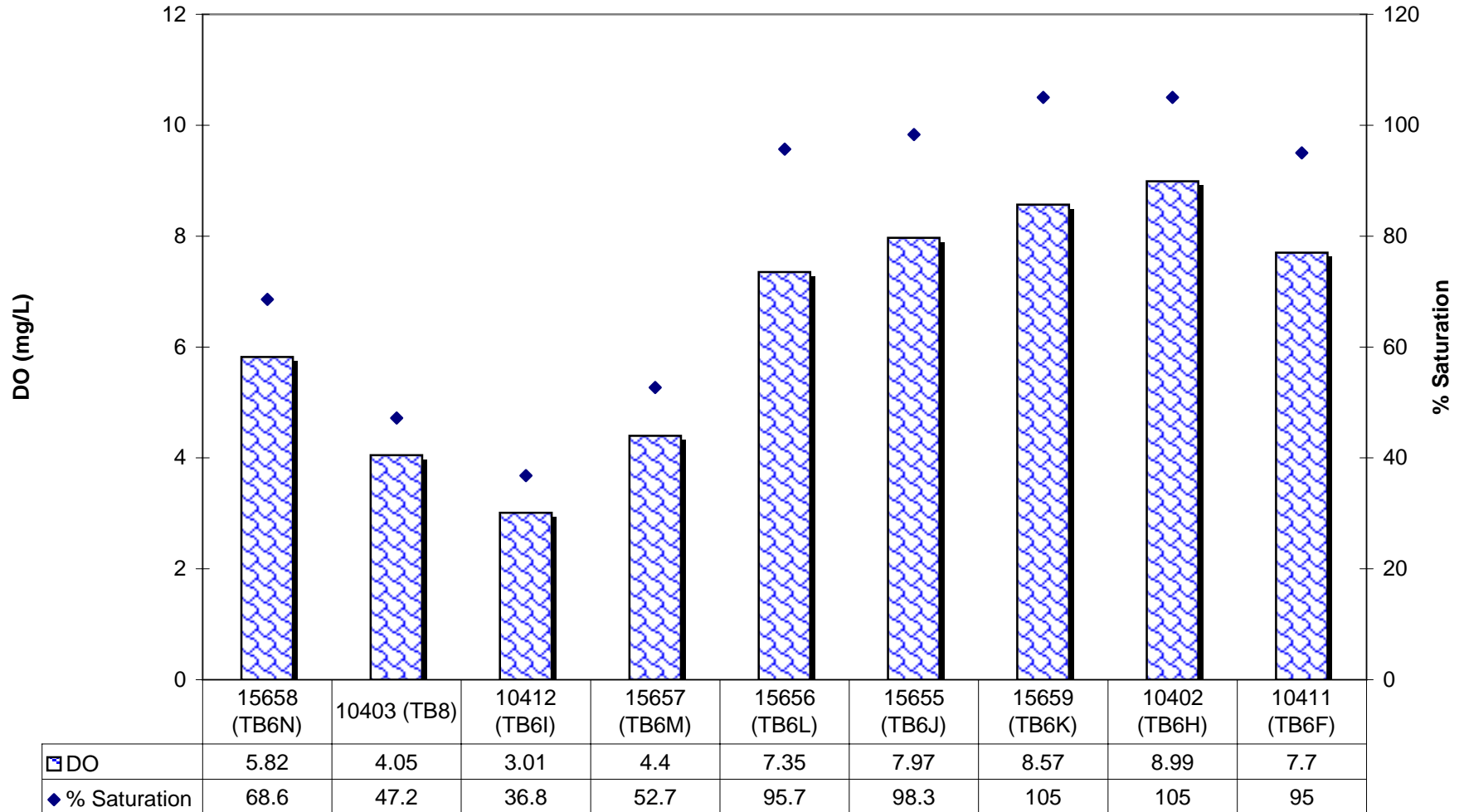
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
5/10/00 1:20 PM	4.10	15658 (TB6N)	23.7	6.89	5.82	68.6	271	*	0.28	26.3	220	232	*	0.117	*	*	14	55	44	22.1	23.5
5/10/00 10:59 AM	4.00	10403 (TB8)	23.2	6.37	4.05	47.2	147	*	0.48	35.2	40	*	*	0.049	*	*	11	20	40	17.4	17.5
5/10/00 11:23 AM	4.00	10412 (TB6I)	24	6.94	3.01	36.8	133	*	0.45	28.4	128	*	17.6	0.072	*	*	12	26	48	10.3	16.6
5/10/00 1:50 PM	4.00	15657 (TB6M)	24.8	6.04	4.4	52.7	105	*	0.68	12.7	52	*	*	0.022	*	*	14	12	24	7.2	9.5
5/10/00 1:31 PM	4.00	15656 (TB6L)	28.9	6.96	7.35	95.7	116	*	0.4	21.5	< 2	*	*	0.063	*	*	15	18	32	8.7	9.8
5/10/00 10:37 AM	4.00	15655 (TB6J)	26.3	7.87	7.97	98.3	171	*	0.76	7.22	4	*	*	< 0.001	*	*	8	26	40	13.1	21.7
5/10/00 12:58 PM	4.00	15659 (TB6K)	26.7	7.9	8.57	105	169	*	0.93	4.23	< 2	*	*	< 0.001	*	*	8	24	36	13.4	17.9
5/10/00 11:31 AM	4.00	10402 (TB6H)	23.7	7.82	8.99	105	197	*	1.68	2.11	< 2	*	17.6	< 0.001	*	*	6	24	42	17.1	15.9
5/10/00 11:09 AM	4.00	10411 (TB6F)	25.8	7.09	7.7	95	93	*	0.44	23.8	8	*	37.6	0.002	*	*	8	16	24	5.6	9.6
5/10/00 9:54 AM	4.00	10407 (TB6CN)	26.4	6.88	6.28	77.8	97	*	0.75	9.8	2	*	*	0.007	*	*	11	15	24	7.5	12.1
5/10/00 11:40 AM	4.00	10404 (TB6A)	23.1	7.32	9.01	107	130	*	2.4	1.17	2	*	4	0.002	*	*	5	23	32	12.5	14.8
5/10/00 1:25 PM	3.03	10340 (BA4)	25.5	6.83	7.15	87.4	203	*	0.4	21.7	124	73	*	0.087	*	*	11	25	28	14	39.1
5/10/00 11:02 AM	3.00	10401 (TB6S)	17.3	7.42	10.1	105	131	*	*	2.21	8	*	*	0.005	*	*	4	24	28	12.5	15
5/10/00 11:20 AM	3.00	10400 (TB6)	18.4	7.15	6.94	73.8	131	*	> 0.9	0.96	2	*	*	0.014	*	*	5	25	32	12.9	14.9
5/10/00 12:48 PM	3.00	10399 (SR5)	22.5	6.99	8.16	94.1	128	*	1.27	3.44	16	*	*	0.004	*	*	6	23	28	12.2	14.5
5/10/00 2:30 PM	3.00	10398 (SR3)	24.2	6.77	7.87	93.9	129	*	0.5	17.6	42	*	*	0.009	*	*	5	22	32	12	16
5/10/00 3:10 PM	2.05	10465 (BCC1)	24.8	6.38	7.68	92.6	49	*	0.54	27.2	64	*	*	0.016	*	*	8	10	16	5.7	2.8
5/10/00 8:48 AM	2.00	10397 (SR2)	24.7	6.41	5.56	67	107	*	0.44	24.9	44	*	*	0.012	*	*	10	15	20	9	15.7

\*: Not sampled on this run

# SABINE RIVER AUTHORITY OF TEXAS

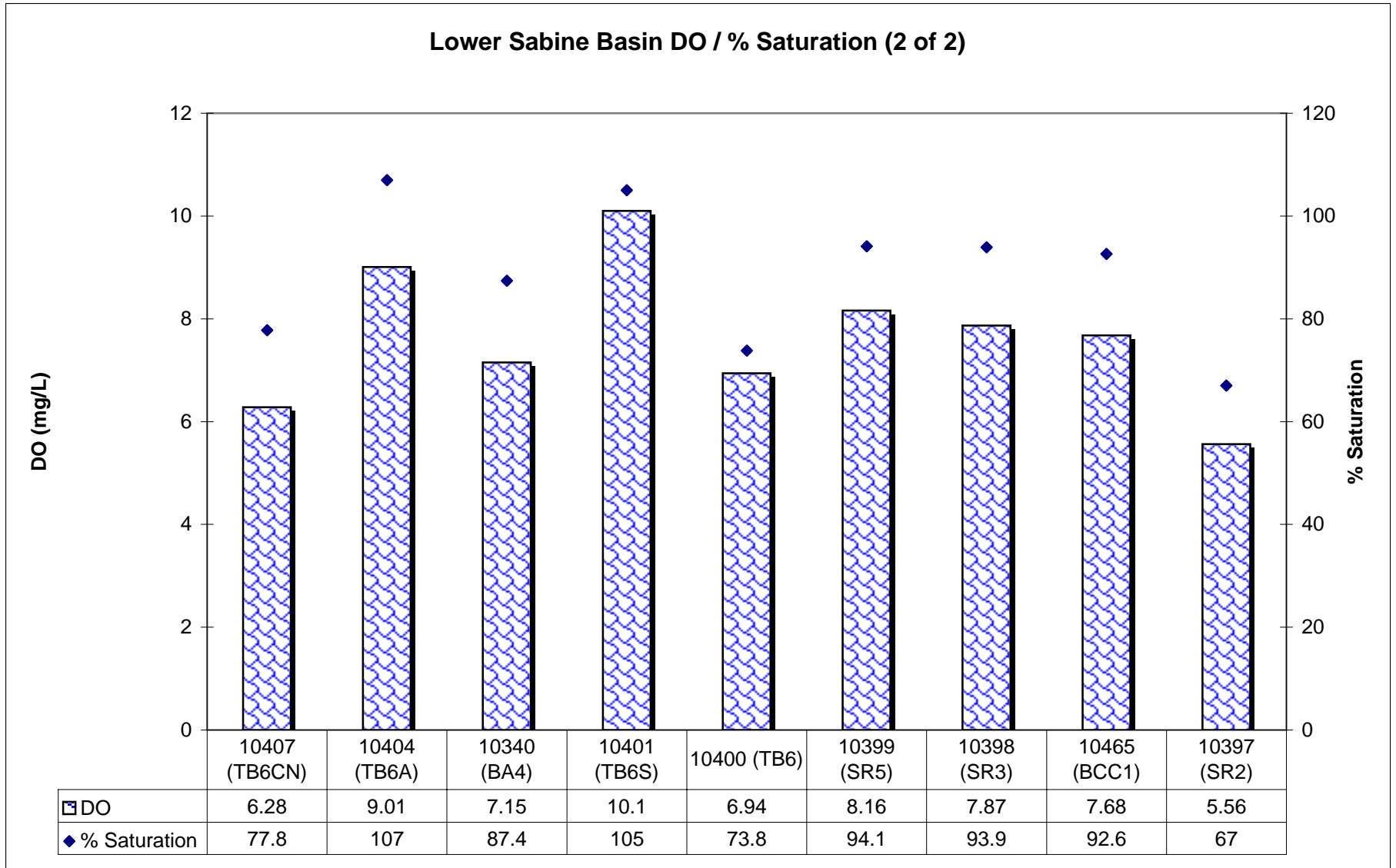
May 2000

### Lower Sabine Basin DO / % Saturation (1 of 2)



# SABINE RIVER AUTHORITY OF TEXAS

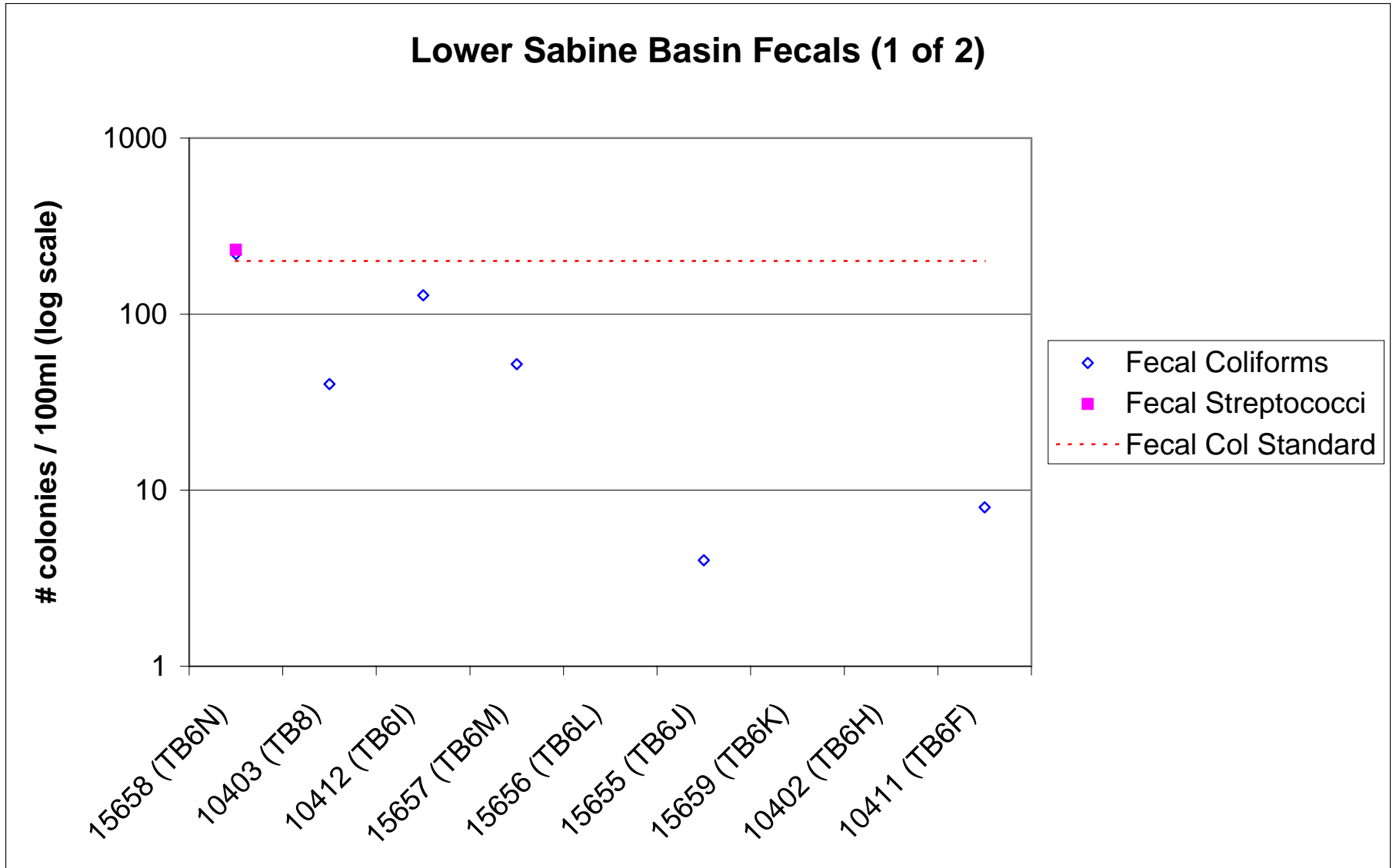
May 2000



Stations without values were not sampled on this run (see page 18).

# SABINE RIVER AUTHORITY OF TEXAS

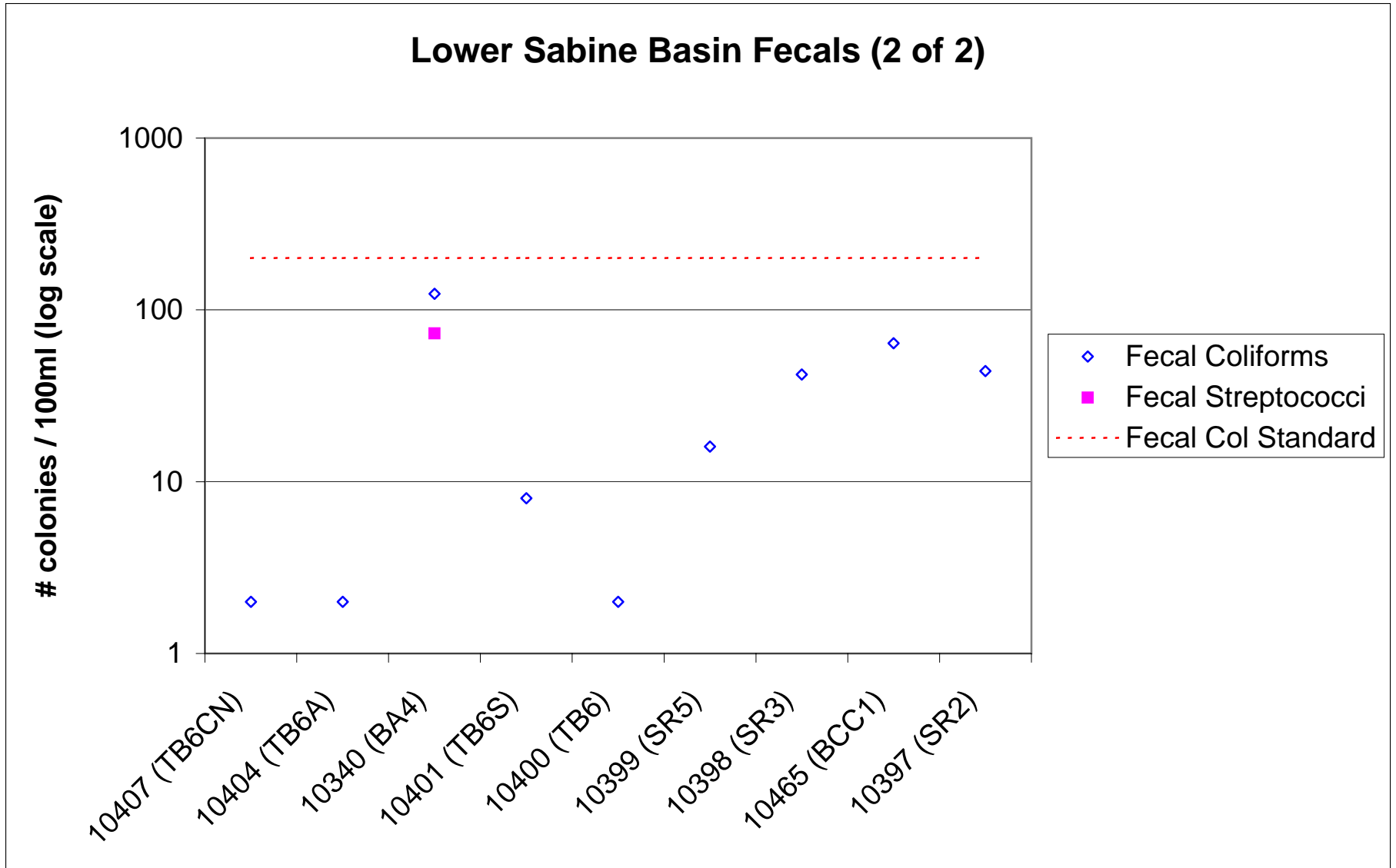
May 2000



Stations without values were below detection limit or not sampled on this run (see page 18).

# SABINE RIVER AUTHORITY OF TEXAS

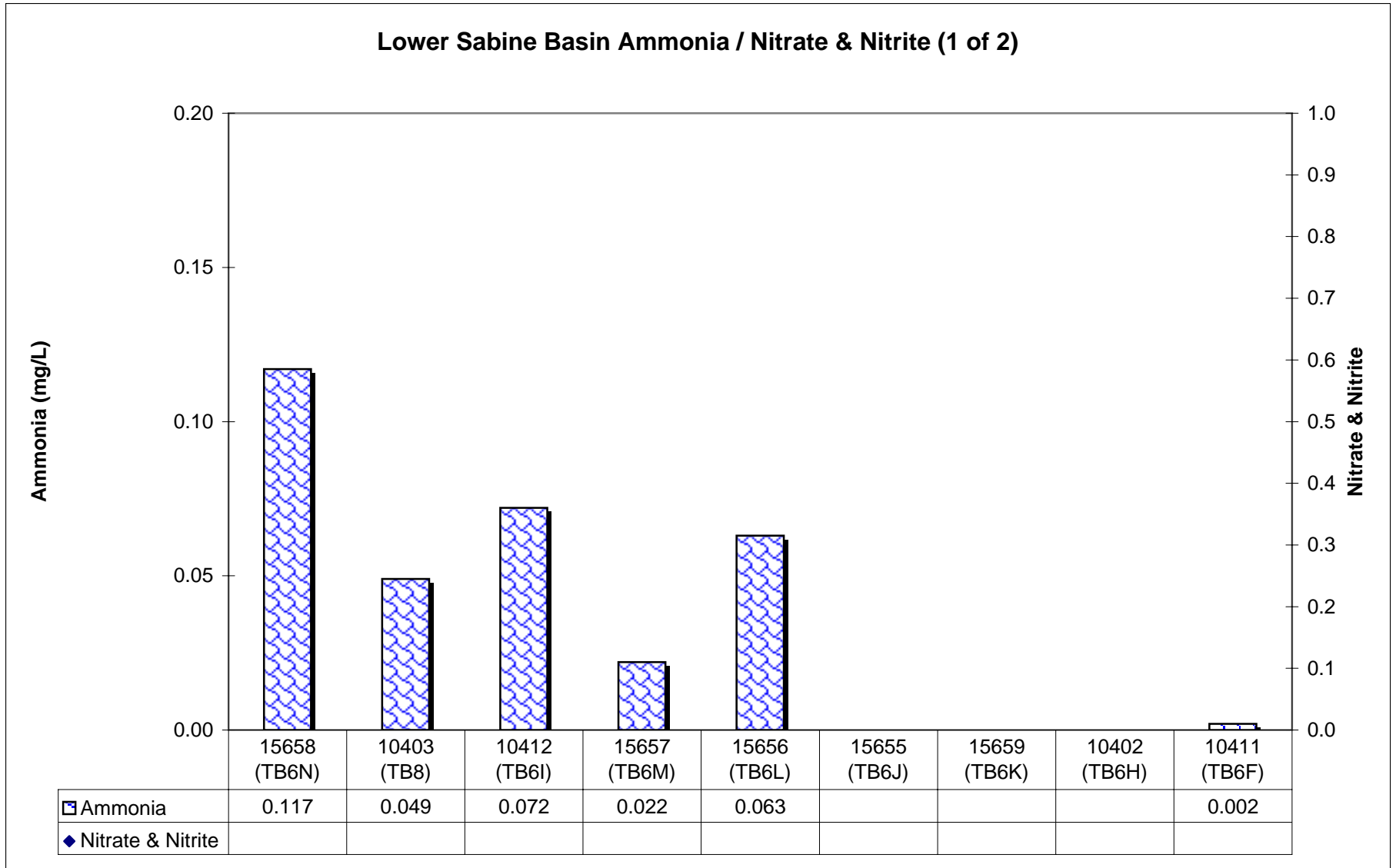
May 2000



Stations without values were below detection limit or not sampled on this run (see page 18).

# SABINE RIVER AUTHORITY OF TEXAS

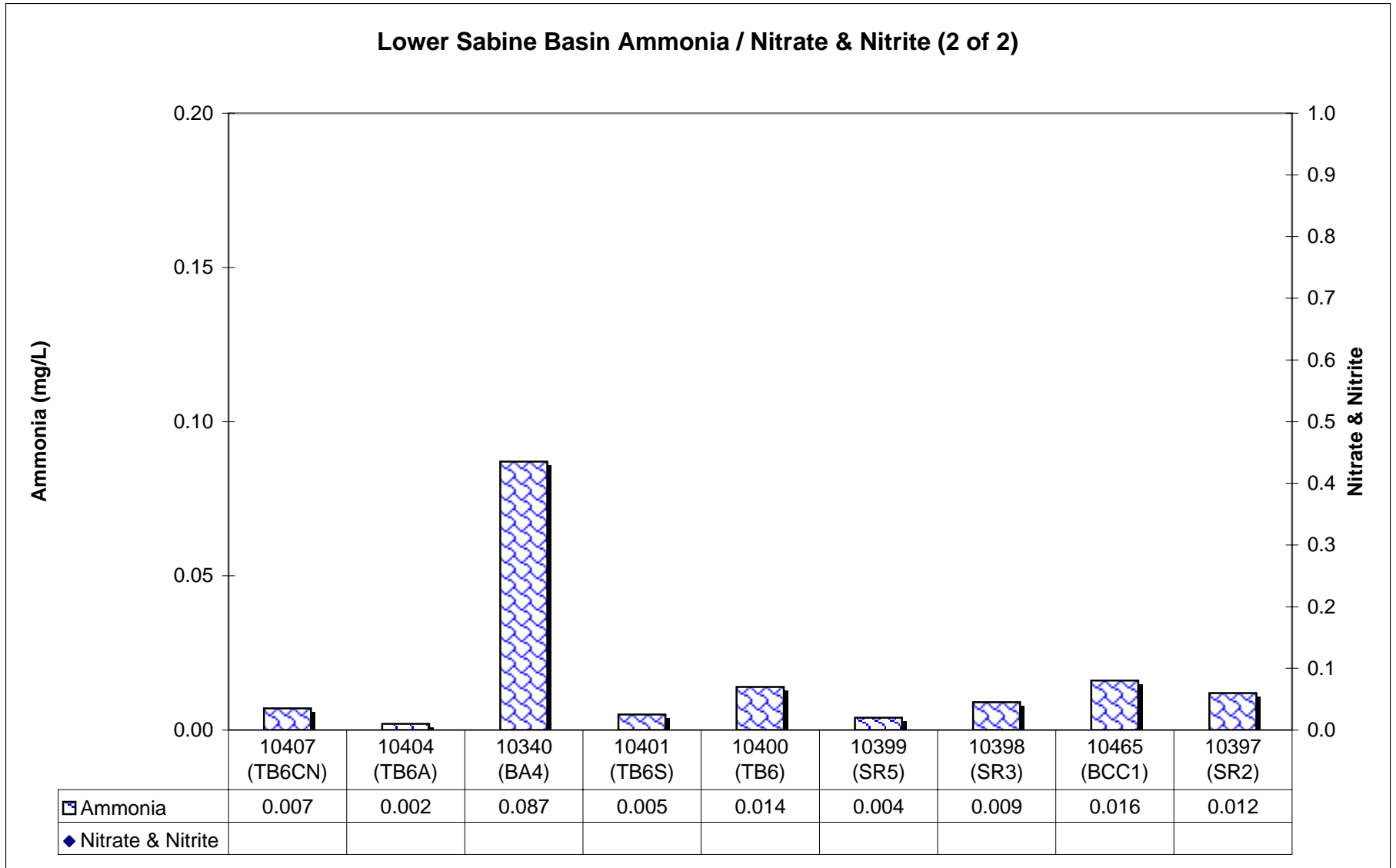
May 2000



Stations without values were below detection limit or not sampled on this run (see page 18).

# SABINE RIVER AUTHORITY OF TEXAS

May 2000



Stations without values were below detection limit or not sampled on this run (see page 18).

**SABINE RIVER AUTHORITY OF TEXAS**

Lower Basin Profiles

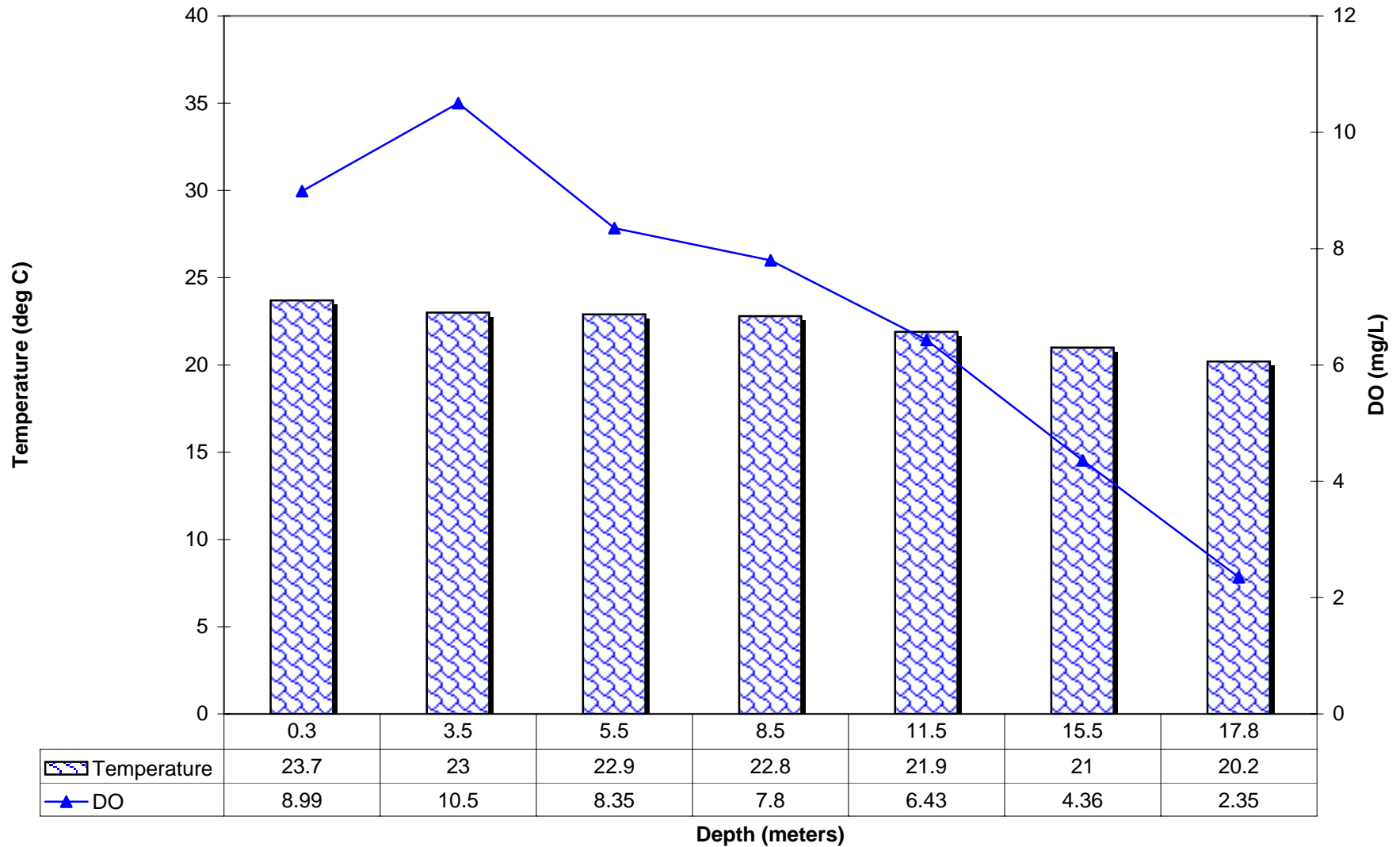
May 2000

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094
5/10/00 11:23 AM	4.00	10412 (TB6I)	0.3	24	6.94	3.01	36.8	133
			1	23.8	6.45	3.1	36.6	133
			2	23.7	6.45	3.11	37.1	133
			2.7	23.7	6.46	3.24	37.9	133
5/10/00 1:50 PM	4.00	15657 (TB6M)	0.3	24.8	6.04	4.4	52.7	105
			2.3	24.3	6.01	3.95	47	109
			3.9	24.2	6.01	3.72	44.5	107
5/10/00 1:31 PM	4.00	15656 (TB6L)	0.3	28.9	6.96	7.35	95.7	116
			2.4	25	6.31	8.85	105	122
5/10/00 10:37 AM	4.00	15655 (TB6J)	0.3	26.3	7.87	7.97	98.3	171
			2.5	25.8	7.62	7.94	97.3	174
			4.5	22.8	6.46	6.5	75.1	158
5/10/00 12:58 PM	4.00	15659 (TB6K)	0.3	26.7	7.9	8.57	105	169
			3	24.4	7.4	7.68	92.4	184
			5.5	23.9	7.06	6.61	77.5	179
			7	22.7	6.65	2.65	29.2	179
			10.2	21.9	6.64	2.01	19.2	189
5/10/00 11:31 AM	4.00	10402 (TB6H)	0.3	23.7	7.82	8.99	105	197
			3.5	23	7.62	10.5	123	208
			5.5	22.9	7.56	8.35	97	207
			8.5	22.8	7.47	7.8	90.3	207
			11.5	21.9	7.13	6.43	73	223
			15.5	21	6.83	4.36	48.9	207
			17.8	20.2	6.7	2.35	25	194
5/10/00 11:09 AM	4.00	10411 (TB6F)	0.3	25.8	7.09	7.7	95	93
			2	25.1	7.02	7.36	89.1	110
			4	22.2	6.28	3.12	35.8	99
			5.5	21.6	6.33	2.32	24.3	111
5/10/00 9:54 AM	4.00	10407 (TB6CN)	0.3	26.4	6.88	6.28	77.8	97
			2	24.1	6.95	7.1	84.5	129
			4.3	21	5.98	7.12	80	99
5/10/00 11:40 AM	4.00	10404 (TB6A)	0.3	23.1	7.32	9.01	107	130
			2.5	22.1	7.21	8.74	100	129
			5	20.9	6.92	7.76	87	130
			10	18.4	6.44	5.01	53.4	133
			15	16.5	6.5	3.02	31.1	131
			20	15.8	6.65	1.46	15	131
			28.1	14.2	6.86	0.49	4.7	137

# SABINE RIVER AUTHORITY OF TEXAS

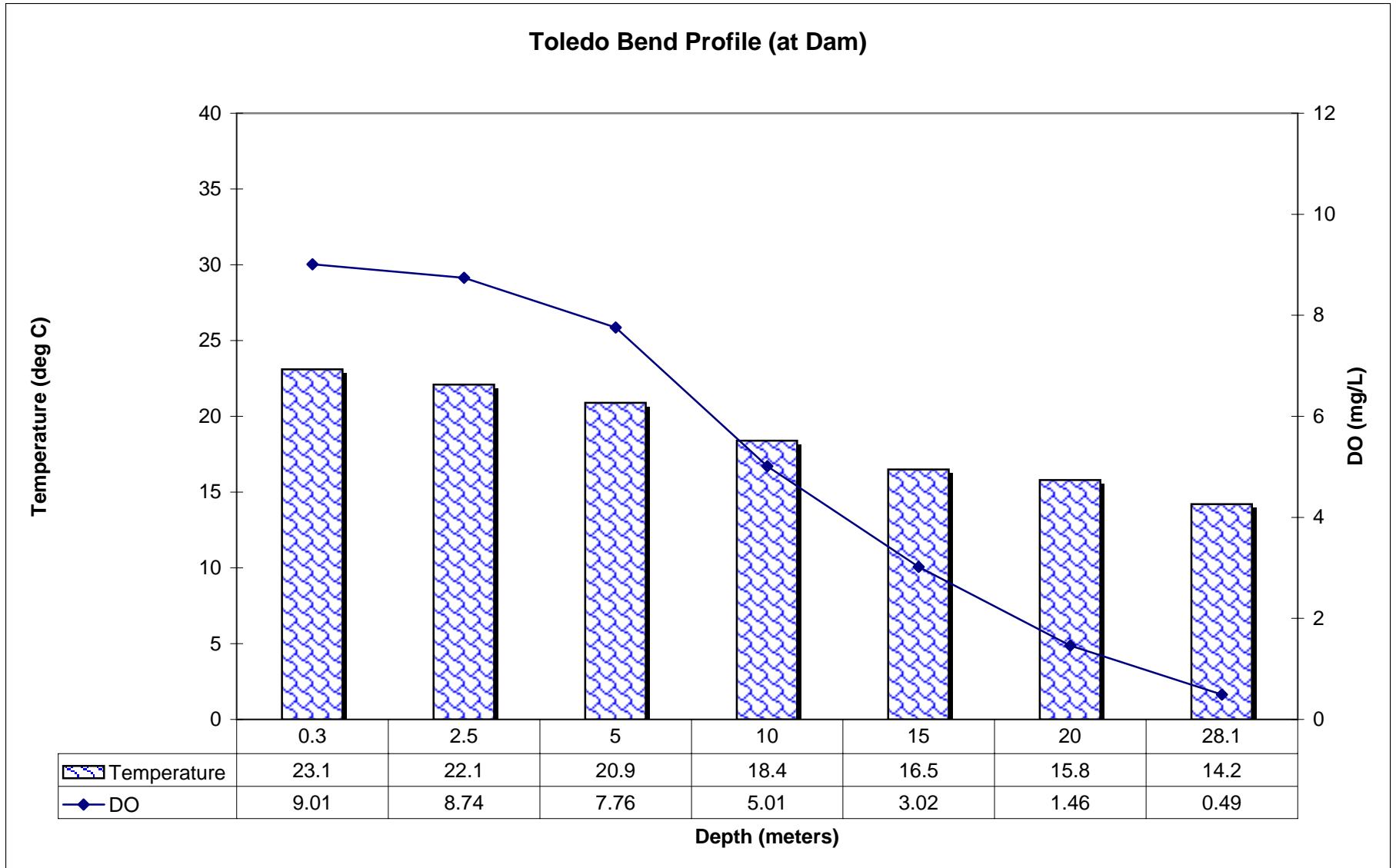
May 2000

## Toledo Bend Profile (at Pendleton Bridge)



# SABINE RIVER AUTHORITY OF TEXAS

May 2000



# SABINE RIVER AUTHORITY OF TEXAS

## Toledo Bend Weather and Reservoir Data

May 2000

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
05/01/2000	169.86	(2.14)	83	63	0.00	0.31	4988	9894	204
05/02/2000	170.18	(1.82)	82	61	1.50	0.00	5162	10239	204
05/03/2000	169.94	(2.06)	73	60	1.85	0.00	5067	10050	204
05/04/2000	169.82	(2.18)	78	62	0.00	0.17	5064	10044	204
05/05/2000	170.22	(1.78)	74	60	2.00	NR	5167	10249	204
05/06/2000	170.37	(1.63)	84	64	0.00	0.24	204	405	204
05/07/2000	170.57	(1.43)	85	69	0.00	0.35	204	405	204
05/08/2000	170.68	(1.32)	86	70	0.00	0.27	5099	10114	204
05/09/2000	170.69	(1.31)	87	68	0.00	0.33	5030	9977	204
05/10/2000	170.90	(1.10)	88	70	0.00	0.23	5041	9999	204
05/11/2000	170.88	(1.12)	90	74	0.00	0.24	5053	10022	204
05/12/2000	170.86	(1.14)	87	73	0.00	0.09	4723	9368	204
05/13/2000	170.88	(1.12)	88	64	1.11	0.47	204	405	204
05/14/2000	171.07	(0.93)	78	55	0.00	0.18	204	405	204
05/15/2000	170.95	(1.05)	72	55	0.00	0.26	5167	10249	204
05/16/2000	170.88	(1.12)	84	55	0.00	0.27	5124	10163	204
05/17/2000	170.74	(1.26)	86	61	0.00	0.27	5042	10001	204
05/18/2000	170.69	(1.31)	88	72	0.00	0.34	5027	9971	204
05/19/2000	170.63	(1.37)	82	74	0.00	0.27	5045	10007	204
05/20/2000	170.71	(1.29)	88	68	1.77	NR	132	262	204
05/21/2000	171.00	(1.00)	77	62	0.00	0.12	132	262	132
05/22/2000	171.06	(0.94)	82	62	0.00	0.28	5015	9947	132
05/23/2000	171.10	(0.90)	90	64	0.00	0.25	6831	13549	460
05/24/2000	171.12	(0.88)	89	70	0.00	0.37	2794	5542	460
05/25/2000	171.09	(0.91)	91	70	0.00	0.31	3936	7807	430
05/26/2000	171.30	(0.70)	92	75	0.00	NR	3712	7363	430
05/27/2000	171.17	(0.83)	91	75	0.00	0.30	130	258	430
05/28/2000	171.47	(0.53)	93	70	0.06	0.31	148	294	430
05/29/2000	171.44	(0.56)	89	69	0.00	0.28	3141	6230	460
05/30/2000	171.42	(0.58)	90	65	0.00	0.33	4762	9445	460
05/31/2000	171.35	(0.65)	95	65	0.00	0.31	2488	4935	430
<b>Avg or Tot</b>	170.81	(1.19)	85	66	8.29	7.15	3543	217861	

Units	Avg Feet M.S.L.	Avg Feet	Avg Deg. F	Avg Deg. F	Tot Inches	Tot Inches	Avg cfs	Tot Ac. Ft.	cfs
									approx. 8:00 a.m.

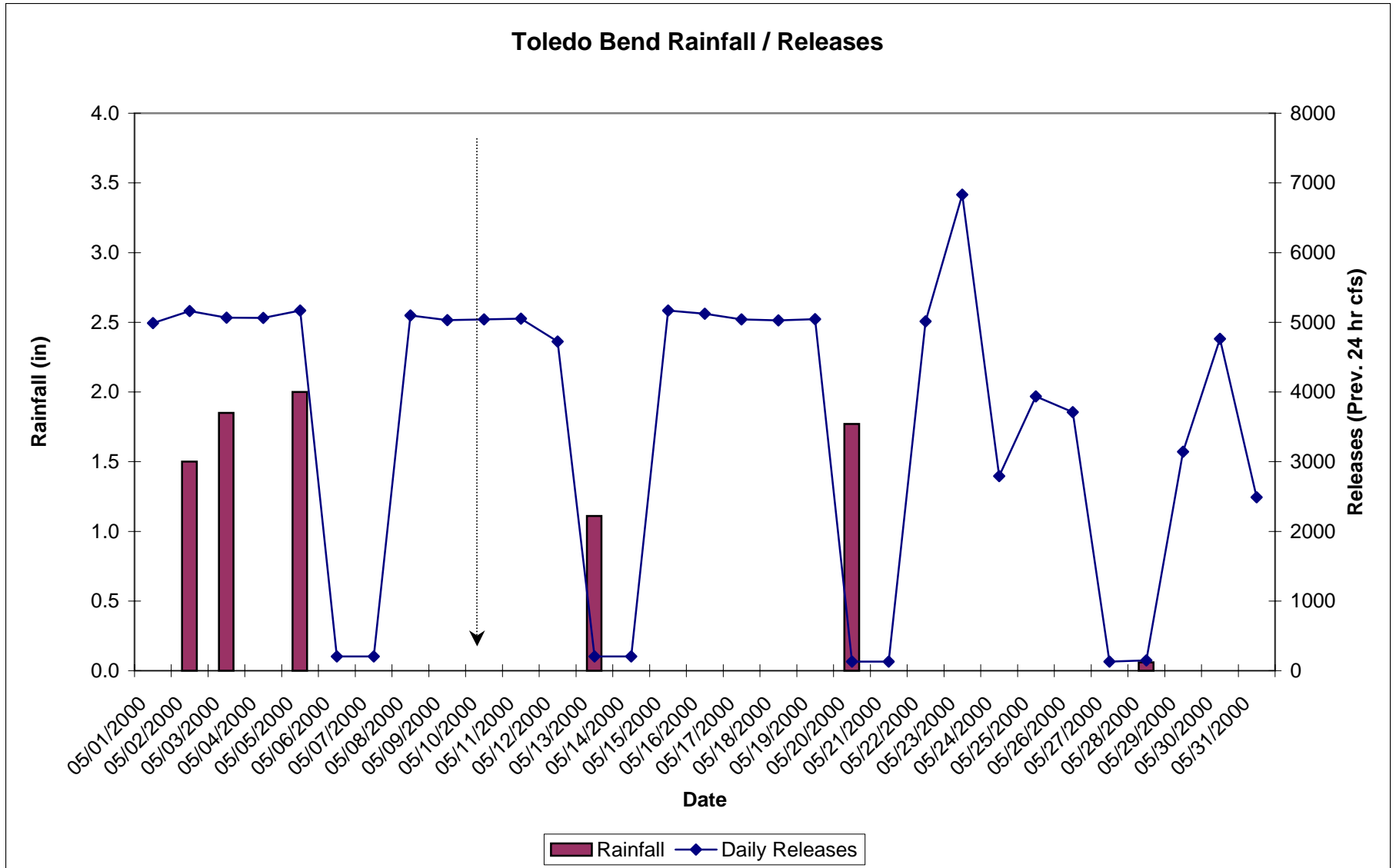
NR: No Reading

TOP: Top of Pool = 172 Feet M.S.L.

Toledo Bend Sampled on 5/10/2000

# SABINE RIVER AUTHORITY OF TEXAS

May 2000



# SABINE RIVER AUTHORITY OF TEXAS

## Burkeville Weather and River Data

May 2000

Date	Rainfall	Gauge Height	GH - FS	Flow
05/01/2000	*	12.59	(28.41)	201
05/02/2000	*	OUT	OUT	OUT
05/03/2000	*	19.69	(21.31)	4924
05/04/2000	*	19.97	(21.03)	5210
05/05/2000	*	21.26	(19.74)	6618
05/06/2000	*	20.04	(20.96)	5282
05/07/2000	*	14.55	(26.45)	937
05/08/2000	*	13.47	(27.53)	469
05/09/2000	*	18.27	(22.73)	3586
05/10/2000	*	18.31	(22.69)	3621
05/11/2000	*	18.52	(22.48)	3808
05/12/2000	*	18.70	(22.30)	3971
05/13/2000	*	18.46	(22.54)	3754
05/14/2000	*	13.58	(27.42)	509
05/15/2000	*	13.25	(27.75)	392
05/16/2000	*	18.74	(22.26)	4000
05/17/2000	*	18.75	(22.25)	4007
05/18/2000	*	18.48	(22.52)	3772
05/19/2000	*	18.19	(22.81)	3516
05/20/2000	*	17.21	(23.79)	2710
05/21/2000	*	14.60	(26.40)	963
05/22/2000	*	13.72	(27.28)	564
05/23/2000	*	18.37	(22.63)	3674
05/24/2000	*	19.01	(21.99)	4259
05/25/2000	*	16.33	(24.67)	2035
05/26/2000	*	16.78	(24.22)	2374
05/27/2000	*	17.11	(23.89)	2633
05/28/2000	*	12.68	(28.32)	224.00
05/29/2000	*	12.59	(28.41)	201
05/30/2000	*	15.97	(25.03)	1780
05/31/2000	*	18.05	(22.95)	3395
<b>Avg or Tot</b>		16.91	(24.09)	2780

	Tot	Avg	Avg	Avg
Units	Inches	Feet	Feet	cfs

FS: Flood Stage = 41 feet

TH: Gage height too high to calculate flow

NR: No Reading

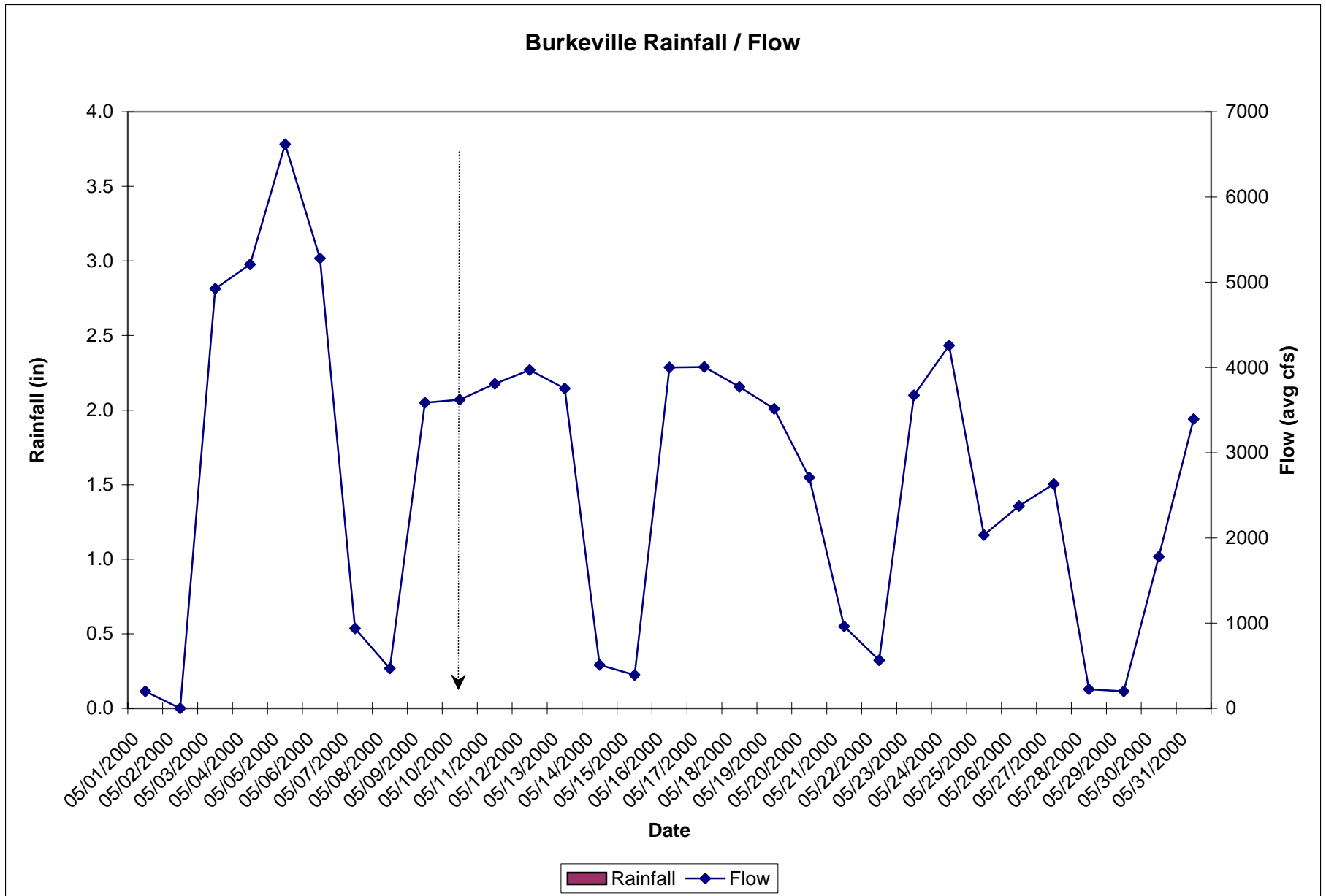
OUT: Gage Out

Lower Sabine Basin Sampled on 5/10/2000

\* Rainfall values not presented due to errors caused by vibrations on the bridge on which the gauge is mounted.

# SABINE RIVER AUTHORITY OF TEXAS

May 2000



Lower Sabine Basin Sampled on 5/10/2000.

Rainfall readings not presented due to vibrations on the bridge on which the gauge is mounted.

# SABINE RIVER AUTHORITY OF TEXAS

## Bon Wier Weather and River Data

May 2000

<b>Date</b>	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow Avg</i>	<i>308 Rainfall</i>
05/01/2000	13.18	(16.82)	823	0.00
05/02/2000	12.95	(17.05)	718	0.11
05/03/2000	18.83	(11.17)	5296	1.19
05/04/2000	20.23	(9.77)	6926	0.04
05/05/2000	22.31	(7.69)	9703	1.23
05/06/2000	23.01	(6.99)	10735	0.00
05/07/2000	20.35	(9.65)	7074	0.00
05/08/2000	17.03	(12.97)	3496	0.00
05/09/2000	15.80	(14.20)	2462	0.00
05/10/2000	18.39	(11.61)	4825	0.00
05/11/2000	18.24	(11.76)	4669	0.00
05/12/2000	18.05	(11.95)	4475	0.00
05/13/2000	17.91	(12.09)	4334	0.44
05/14/2000	17.36	(12.64)	3800	0.00
05/15/2000	14.77	(15.23)	1724	0.00
05/16/2000	14.23	(15.77)	1385	0.00
05/17/2000	17.70	(12.30)	4127	0.00
05/18/2000	17.79	(12.21)	4215	0.00
05/19/2000	17.73	(12.27)	4156	0.00
05/20/2000	17.84	(12.16)	4264	0.95
05/21/2000	18.54	(11.46)	4984	0.13
05/22/2000	16.11	(13.89)	2707	0.00
05/23/2000	15.03	(14.97)	1899	0.00
05/24/2000	17.74	(12.26)	4166	0.00
05/25/2000	17.54	(12.46)	3974	0.00
05/26/2000	16.21	(13.79)	2788	0.00
05/27/2000	16.59	(13.41)	3107	0.00
05/28/2000	16.18	(13.82)	2764	0.08
05/29/2000	13.71	(16.29)	1090	0.00
05/30/2000	13.15	(16.85)	809	0.00
05/31/2000	15.88	(14.12)	2524	0.00
<b>Avg or Tot</b>	17.11	(12.89)	3872	4.17

Units	Avg Feet	Avg Feet	Avg	Tot Inches
-------	-------------	-------------	-----	---------------

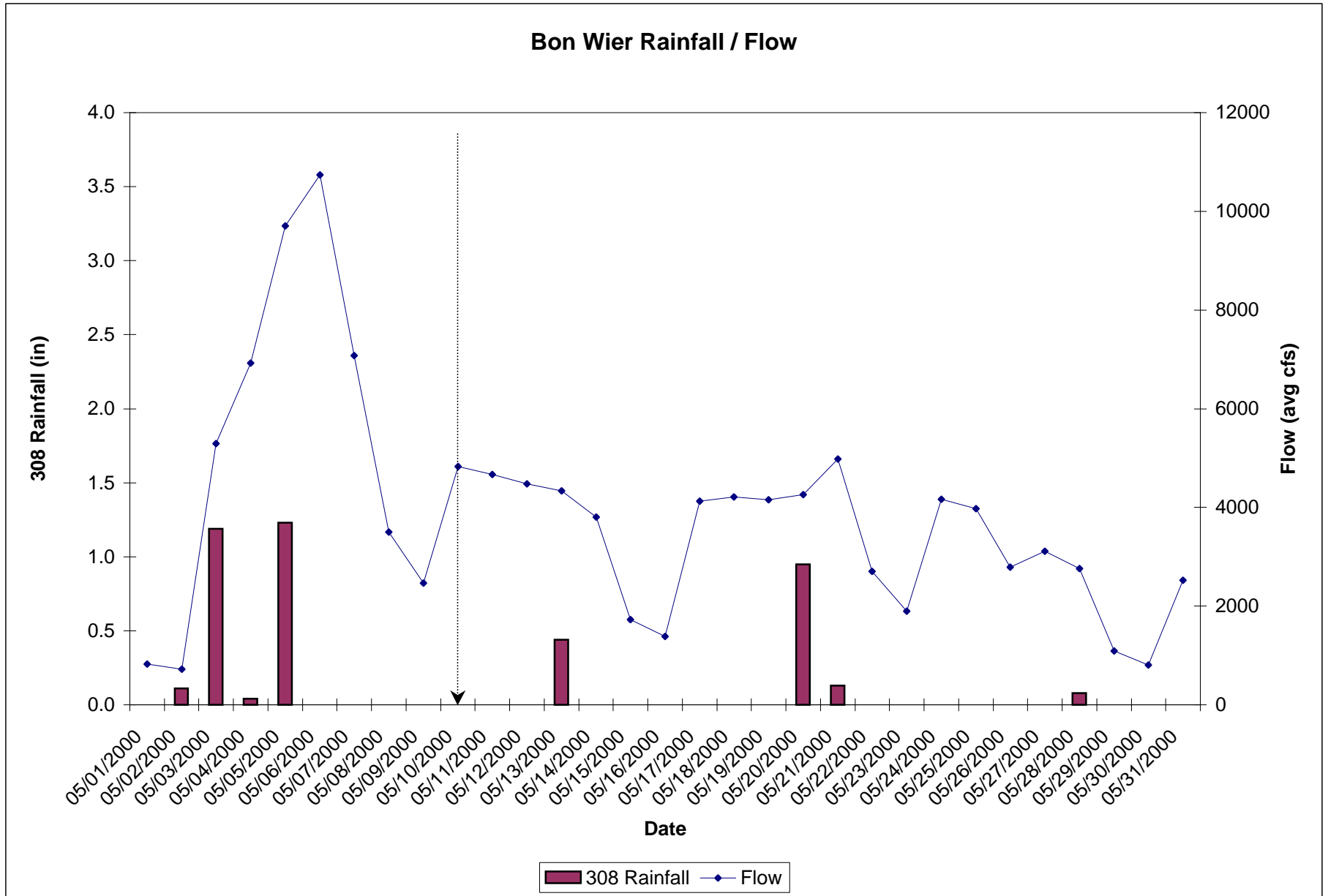
FS: Flood Stage = 30 feet

OUT: Gauge Out

Lower Sabine Basin Sampled on 5/10/2000

# Sabine River Authority of Texas

May 2000



# SABINE RIVER AUTHORITY OF TEXAS

## Ruliff Weather and River Data

May 2000

<b>Date</b>	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow cfs</i>	<i>Flow acft</i>	<i>Flow avg</i>	<i>309 Rainfall</i>
05/01/2000	16.43	(7.57)	2023	4013	2023	0.00
05/02/2000	15.65	(8.35)	1675	3322	1849	0.06
05/03/2000	14.93	(9.07)	1405	2787	1701	2.46
05/04/2000	18.96	(5.04)	3531	7004	2159	0.05
05/05/2000	21.15	(2.85)	6162	12222	2959	1.61
05/06/2000	22.02	(1.98)	7648	15170	3741	0.00
05/07/2000	22.57	(1.43)	9075	18000	4502	0.00
05/08/2000	22.91	(1.09)	10226	20283	5218	0.00
05/09/2000	22.90	(1.10)	10190	20212	5771	0.00
<b>05/10/2000</b>	<b>22.15</b>	<b>(1.85)</b>	<b>7961</b>	<b>15790</b>	<b>5990</b>	<b>0.00</b>
05/11/2000	21.43	(2.57)	6590	13071	6044	0.00
05/12/2000	21.35	(2.65)	6466	12825	6079	0.00
05/13/2000	21.40	(2.60)	6543	12978	6115	0.00
05/14/2000	21.33	(2.67)	6435	12764	6138	0.00
05/15/2000	21.19	(2.81)	6222	12341	6143	0.00
05/16/2000	19.90	(4.10)	4494	8914	6040	0.00
05/17/2000	17.83	(6.17)	2813	5580	5851	0.00
05/18/2000	19.51	(4.49)	4093	8118	5753	0.00
05/19/2000	20.47	(3.53)	5256	10425	5727	0.00
05/20/2000	21.04	(2.96)	5999	11899	5740	0.00
05/21/2000	21.40	(2.60)	6543	12978	5779	0.00
05/22/2000	21.59	(2.41)	6856	13599	5828	0.00
05/23/2000	21.19	(2.81)	6222	12341	5845	0.00
05/24/2000	19.75	(4.25)	4337	8602	5782	OUT
05/25/2000	20.12	(3.88)	4762	9445	5741	OUT
05/26/2000	20.72	(3.28)	5576	11060	5735	0.00
05/27/2000	20.34	(3.66)	5069	10054	5710	0.00
05/28/2000	20.01	(3.99)	4613	9150	5671	0.00
05/29/2000	19.18	(4.82)	3770	7478	5605	0.00
05/30/2000	18.12	(5.88)	2998	5946	5518	0.00
05/31/2000	15.86	(8.14)	1755	3481	5397	0.00
<b>Avg or Tot</b>	<b>20.11</b>	<b>(3.89)</b>	<b>5397</b>	<b>331852</b>		<b>4.18</b>

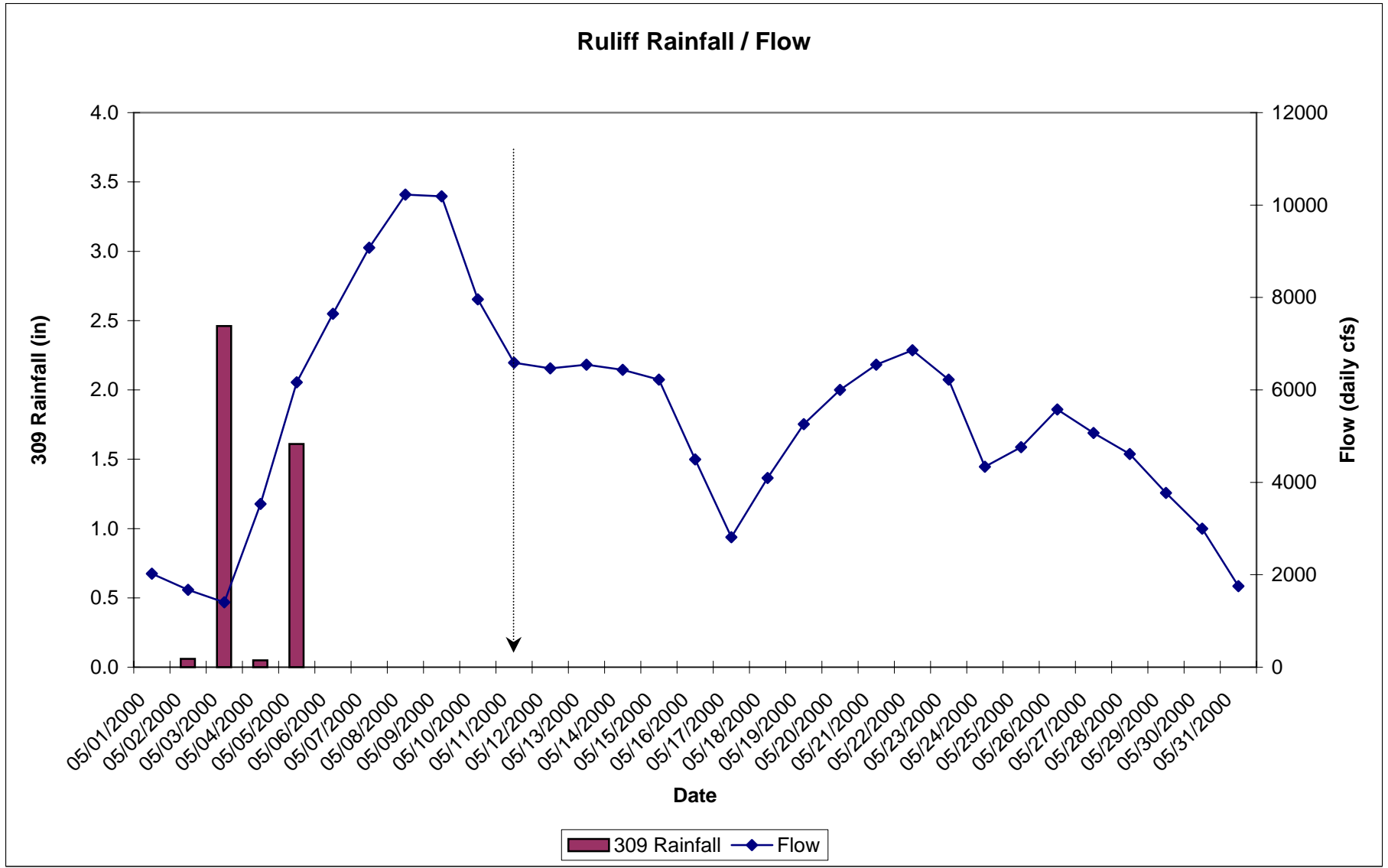
Units	Avg Feet	Avg Feet	Avg cfs	Tot ac ft	Tot Inches
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FS: Flood Stage 24 feet with 10 foot datum

Lower Sabine Basin Sampled on 5/10/2000

# SABINE RIVER AUTHORITY OF TEXAS

May 2000



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# *Current WQMP Stations*

## *Tidal Sabine Basin*

<i>SW</i>	<i>Segment Station</i>	<i>Location</i>
1.05	0501 15653 (ICW1)	INTERCOASTAL WATERWAY
1.01	0501 15654 (BB1)	BLACK BAYOU
1.00	0501 10395 (SR1)	SABINE RIVER 12 KM N OF IH10
1.00	0501 10394 (SRT2)	SABINE RIVER AT IH 10
1.00	0501 10391 (SRT1)	SABINE RIVER AT CHANNEL CAN 3

# SABINE RIVER AUTHORITY OF TEXAS

## Tidal Report

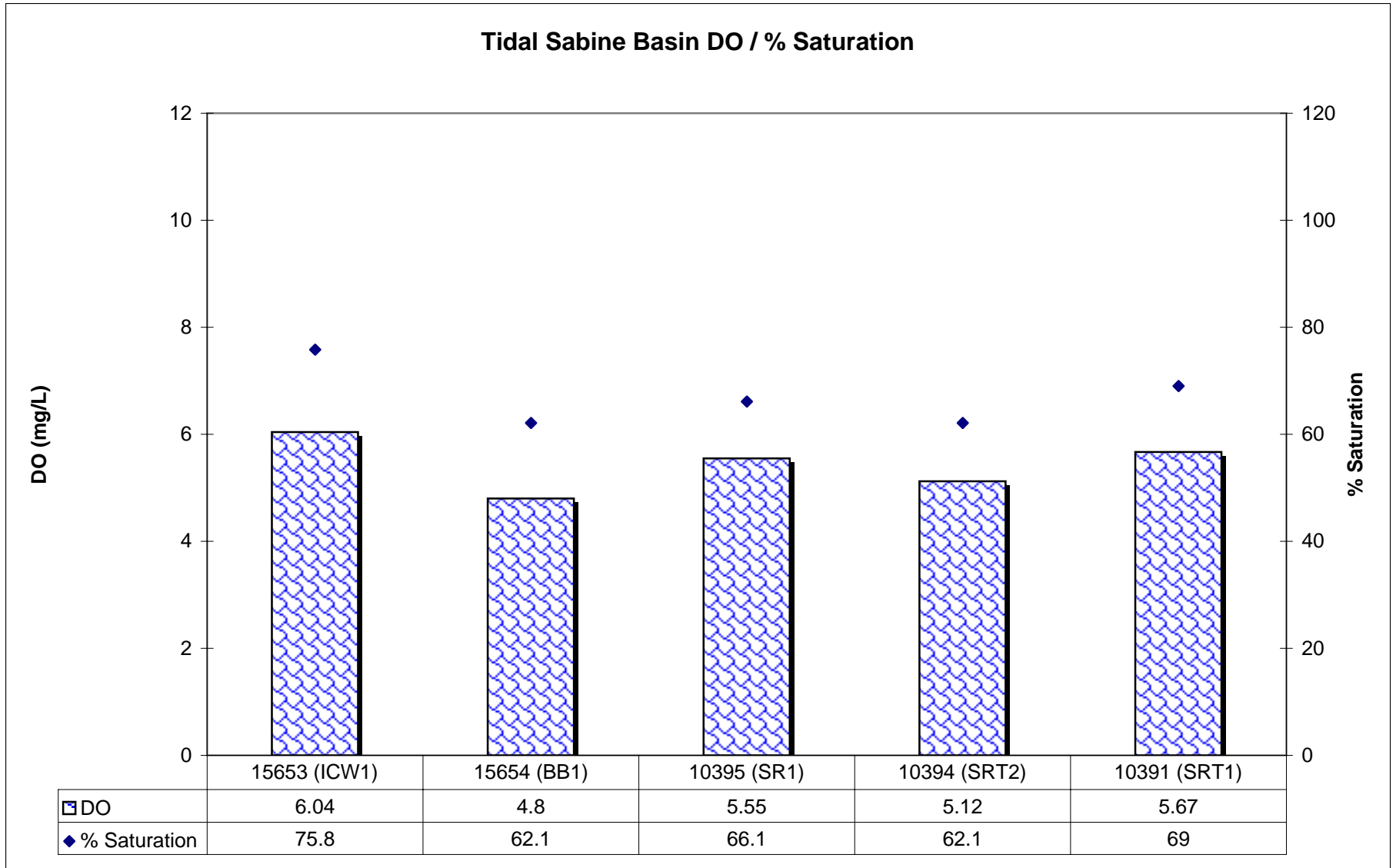
May 2000

Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
5/11/00 10:30 AM	1.05	15653 (ICW1)	26.5	6.89	6.04	75.8	3950	2	0.46	24.4	8	*	*	*	*	*	< 1	30	368	1100	139
5/11/00 11:30 AM	1.01	15654 (BB1)	26.9	6.73	4.8	62.1	10470	6	0.61	11.7	2	*	*	< 0.001	*	*	< 1	40	1080	3222	408
5/11/00 9:16 AM	1.00	10395 (SR1)	25.5	6.46	5.55	66.1	146	*	0.42	25.7	24	*	*	0.036	*	*	11	18	22	9.2	20.3
5/11/00 9:41 AM	1.00	10394 (SRT2)	25.3	6.29	5.12	62.1	145	< 1	0.49	20.7	33	*	*	0.017	*	*	11	16	20	11.6	17
5/11/00 11:45 AM	1.00	10391 (SRT1)	25.1	6.82	5.67	69	817	< 1	0.54	19.3	18	*	*	0.028	*	*	7	20	72	180	37.6

\*: Not sampled on this run

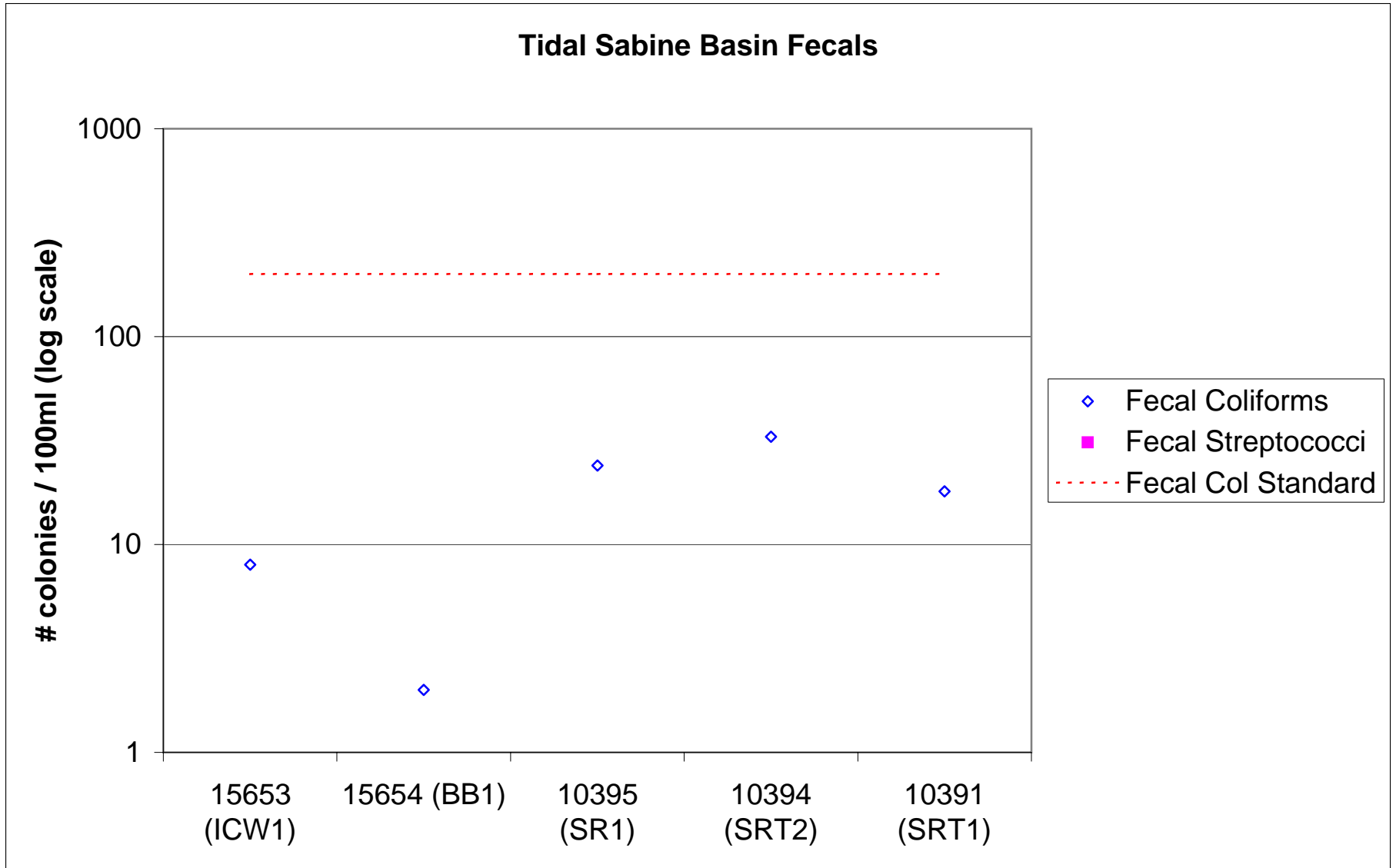
# SABINE RIVER AUTHORITY OF TEXAS

May 2000



# SABINE RIVER AUTHORITY OF TEXAS

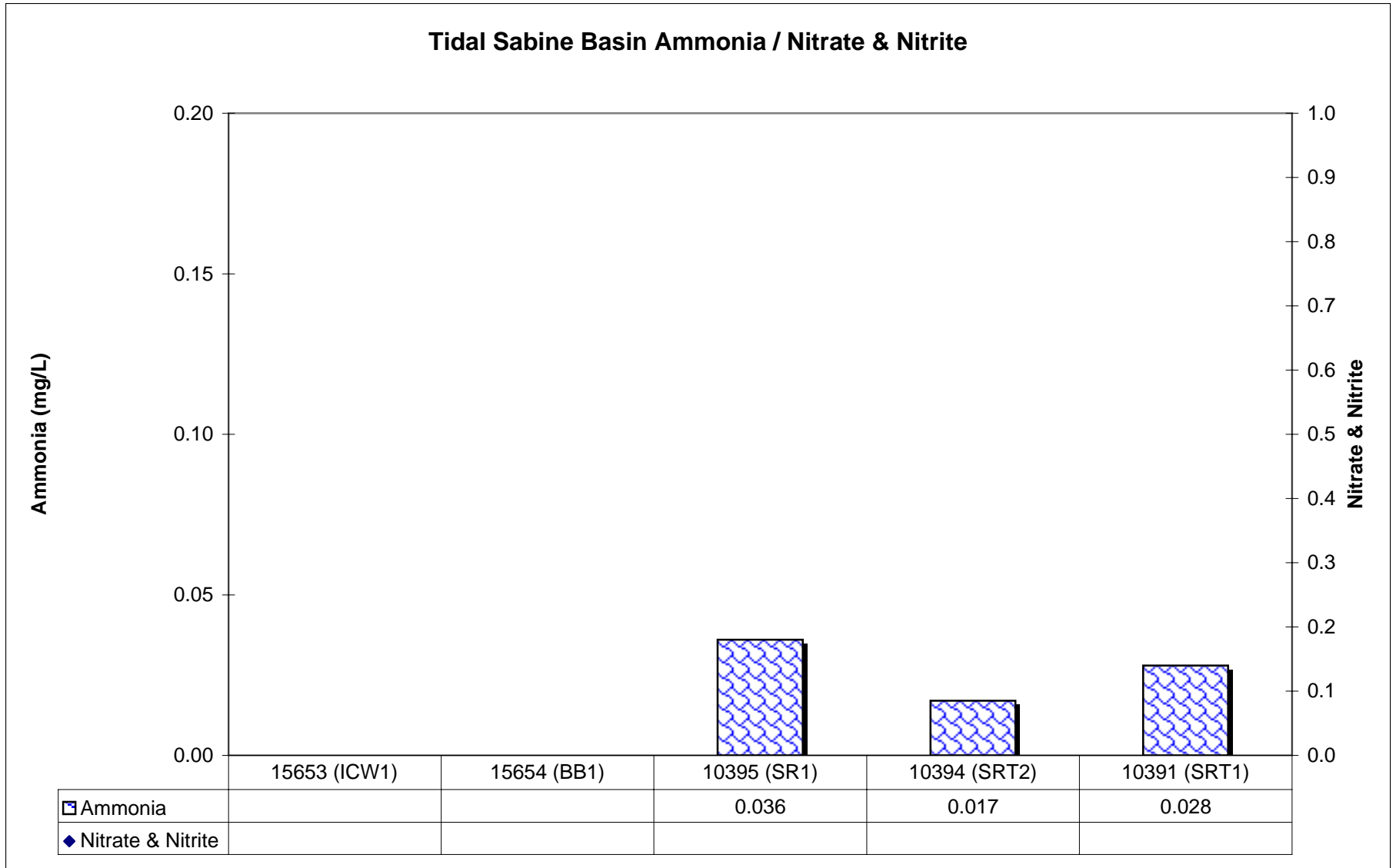
May 2000



Stations without values were below detection limit or not sampled on this run (see page 38).

# SABINE RIVER AUTHORITY OF TEXAS

May 2000



Stations without alues were below detection limit or not sampled on this run (see page 40).

# SABINE RIVER AUTHORITY OF TEXAS

## Tidal Profiles

May 2000

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094	Salinity ppt 00480
5/11/00 10:30 AM	1.05	15653 (ICW1)	0.3	26.5	6.89	6.04	75.8	3950	2
			3	26.4	6.9	5.7	71.8	3908	2
			6.1	26.4	6.95	5.6	70.5	3907	2
5/11/00 9:41 AM	1.00	10394 (SRT2)	0.3	25.3	6.29	5.12	62.1	145	< 1
			5	25.3	6.26	4.87	59.2	137	< 1
			9.1	25.2	6.3	4.79	58.5	142	< 1
5/11/00 11:45 AM	1.00	10391 (SRT1)	0.3	25.1	6.82	5.67	69	817	< 1
			5	25.1	6.62	5.38	65.2	811	< 1
			10.1	24.8	6.55	4.89	59.4	801	< 1

\*: Not sampled on this run

# SABINE RIVER AUTHORITY OF TEXAS

## Orange Weather and River Data

May 2000

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
05/01/2000	0.00	2.57	(1.43)	81	67	72	0.00
05/02/2000	0.05	2.21	(1.79)	83	64	64	0.43
05/03/2000	OUT	OUT	OUT	68	65	65	3.70
05/04/2000	OUT	OUT	OUT	77	64	70	0.05
05/05/2000	OUT	2.15	OUT	80	62	65	2.26
05/06/2000	0.00	1.93	(2.07)	82	65	74	0.00
05/07/2000	0.00	1.94	(2.06)	83	73	73	0.00
05/08/2000	0.00	1.83	(2.17)	84	73	73	0.00
05/09/2000	0.00	1.81	(2.19)	84	72	72	0.00
05/10/2000	0.00	1.71	(2.29)	84	72	73	0.00
05/11/2000	0.00	1.86	(2.14)	87	73	76	0.00
05/12/2000	0.00	2.44	(1.56)	86	78	78	0.00
05/13/2000	0.14	2.09	(1.91)	87	67	68	0.65
05/14/2000	0.00	1.46	(2.54)	82	60	60	0.00
05/15/2000	0.00	1.60	(2.40)	83	57	57	0.00
05/16/2000	0.00	1.74	(2.26)	83	56	67	0.00
05/17/2000	0.00	1.86	(2.14)	85	67	74	0.00
05/18/2000	0.00	2.18	(1.82)	85	74	75	0.00
05/19/2000	0.00	2.05	(1.95)	84	74	74	0.00
05/20/2000	1.38	1.81	(2.19)	87	67	68	2.19
05/21/2000	0.08	1.04	(2.96)	80	66	66	0.02
05/22/2000	OUT	OUT	OUT	85	66	66	0.09
05/23/2000	OUT	OUT	OUT	89	66	70	0.00
05/24/2000	0.00	1.52	(2.48)	89	69	78	0.00
05/25/2000	0.00	1.33	(2.67)	88	77	78	0.00
05/26/2000	0.00	1.84	(2.16)	88	76	79	0.00
05/27/2000	0.00	2.36	(1.64)	88	76	78	0.00
05/28/2000	0.00	1.94	(2.06)	89	72	74	0.00
05/29/2000	0.00	1.66	(2.34)	91	74	75	0.00
05/30/2000	0.00	1.55	(2.45)	92	72	72	0.00
05/31/2000	0.00	1.66	(2.34)	78	71	71	0.00
<b>Avg or Tot</b>	1.65	1.86	(2.15)	84	69	71	9.39

Units	Tot Inches	Avg Feet	Avg Feet	Avg Deg F	Avg Deg F	Avg Deg F	Tot Inches
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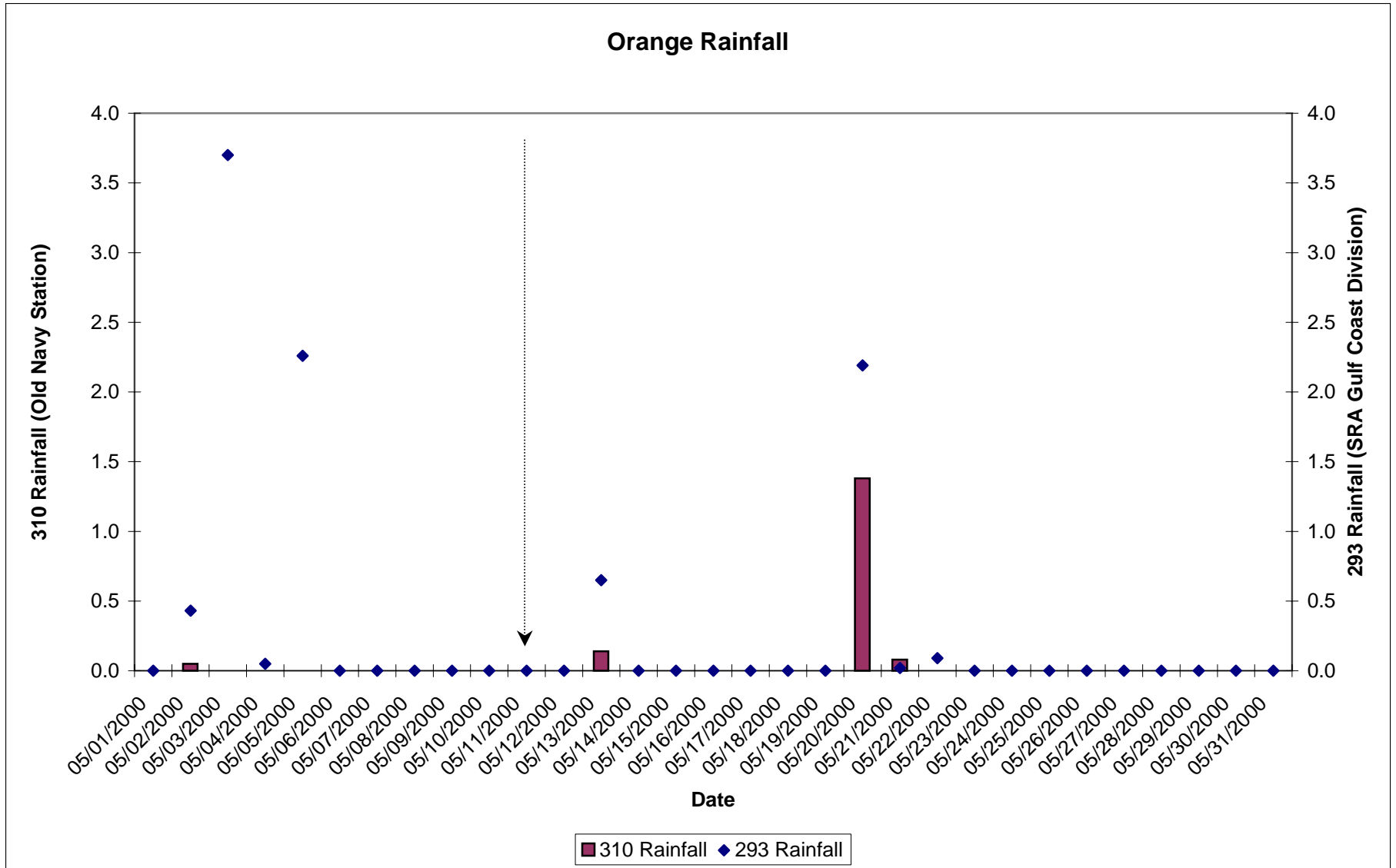
Appx. 8 am

310 Rainfall: Old Navy Base, City of Orange  
 293: SRA Gulf Coast Division Office, Northern Orange County  
 FS: Flood Stage = 4 Feet  
 OUT: Gauge Out

Tidal Sabine Basin Sampled on 5/11/2000

# SABINE RIVER AUTHORITY OF TEXAS

May 2000



Tidal Sabine Basin Sampled on 5/11/2000