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**SABINE RIVER AUTHORITY OF TEXAS**

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**TO:** INTERESTED PARTIES  
**FROM:** WATER RESOURCES BRANCH  
**RE:** JANUARY 2005 MONTHLY WATER QUALITY REPORT

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This is the Sabine River Authority Water Quality Report for January 2005. Water quality sampling was performed January 10<sup>th</sup> through January 13<sup>th</sup>. Recent weather (previous seven days) in the Sabine River Basin was cool, with daytime highs from the low 30s to the low 70s at Lake Tawakoni and at Lake Fork. Toledo Bend Reservoir and Orange had daytime highs from the low 40s to the upper 70s. Lows ranged from the mid 20s to the mid 60s at Lake Tawakoni and at Lake Fork. Toledo Bend and Orange had lows ranging from the upper 30s to the mid 60s. The waters of Lake Tawakoni and Lake Fork were mixed, exhibiting no thermal stratification. During the 28 days prior to the sample run, the Upper Basin received 2.76 and 2.85 inches of rainfall as recorded at Lake Tawakoni and at Lake Fork, respectively. Lake Tawakoni and Lake Fork received 1.07 and 1.31 inches of rainfall the week preceding the sample run. Toledo Bend and Orange received 2.42 and 1.87 inches, respectively, during the 28 days prior to the sample run.

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

Most water quality parameter measurements at Upper Basin sites were consistent with water of high quality. The level of Lake Fork was recorded at 402.89 feet msl with 2,073 cfs releases and the level of Lake Tawakoni was recorded at 438.00 feet msl with 506 cfs releases at the time of sampling. Stations LT23A, LT23D, LT23C, SR22 and SR19 exceeded recommended screening criteria for chlorophyll *a*, station LT23D exceeded the recommended screening criteria for orthophosphate, and stations LF20, BS9, SR21, SR19, SR17, SR16, SR15, SR14 and SR10 exceeded Stream Standards numeric criteria for *E. coli*. The sites that exceeded numeric criteria for *E. coli* also exhibited higher than normal turbidities and low secchi depths due to suspended sediment from rainfall runoff. An increase in *E. coli* numbers is usually accompanied by higher turbidity values and low secchi depths.

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

The January monthly sampling results were indicative of water of high quality at most sites. The area received 0.38 inches of rain during the seven days prior to sampling. The level of Toledo Bend Reservoir was recorded at 168.87 feet msl with 7,744 cfs discharge at the time of sampling. Most reservoir stations were well mixed with similar readings throughout the water column. All parameters measured were within Stream Standards criteria.

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

Most sites sampled in the tidal portion of the Sabine Basin had values consistent with water of high quality. The tidal stations received only trace amounts of rainfall during the seven days prior to the sample run, but 0.5 inch was recorded during the actual sampling day. Most sites in this section of the Basin were well mixed with only slight stratification, and no anoxic conditions were found at any tidal station. A surface salinity of 2 ppt was found at Stations BB1 and SRT1. The greatest salinity measured was 4 ppt, found at station SRT1 at a depth of 10.6 meters. Station BB1 displayed bacteriological results that were above Stream Standards criteria.

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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409-746-2192 ([jpayne@sra.dst.tx.us](mailto:jpayne@sra.dst.tx.us))  
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# SABINE RIVER AUTHORITY OF TEXAS

## Monthly Water Quality Report

January 2005

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## FY 2005 Fixed Monitoring Stations

### Upper Sabine Basin

SW	Segment	Station	Location
7.00	0507	10440 (LT23C)	LAKE TAWAKONI NEAR WIND POINT PARK
7.00	0507	10435 (LT23D)	LAKE TAWAKONI IN KITSEE INLET NEAR WHITE POINT CAUSEWAY
7.00	0507	10434 (LT23A)	LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM
6.12	0512	10461 (LF3)	LAKE FORK RESERVOIR MID-ARM IN CANEY CREEK ARM AT FM 515
6.12	0512	10462 (LF4)	LAKE FORK RESERVOIR MID-COVE IN LAKE FORK CREEK ARM AT FM 515
6.12	0512	10458 (LF2)	LAKE FORK RESERVOIR NEAR DAM IN CREEK CHANNEL
6.10	0515	10469 (LF20)	LAKE FORK CREEK AT US 80
6.02	0514	16011 (BS9)	BIG SANDY CREEK AT WHITE OAK ROAD
6.00	0506	17065 (SR22)	SABINE RIVER AT FM 17
6.00	0506	10430 (SR21)	SABINE RIVER AT US 69
6.00	0506	10429 (SR19)	SABINE RIVER AT SH 14 S. OF HAWKINS
5.00	0506	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

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Upper Sabine Basin Report

January 2005

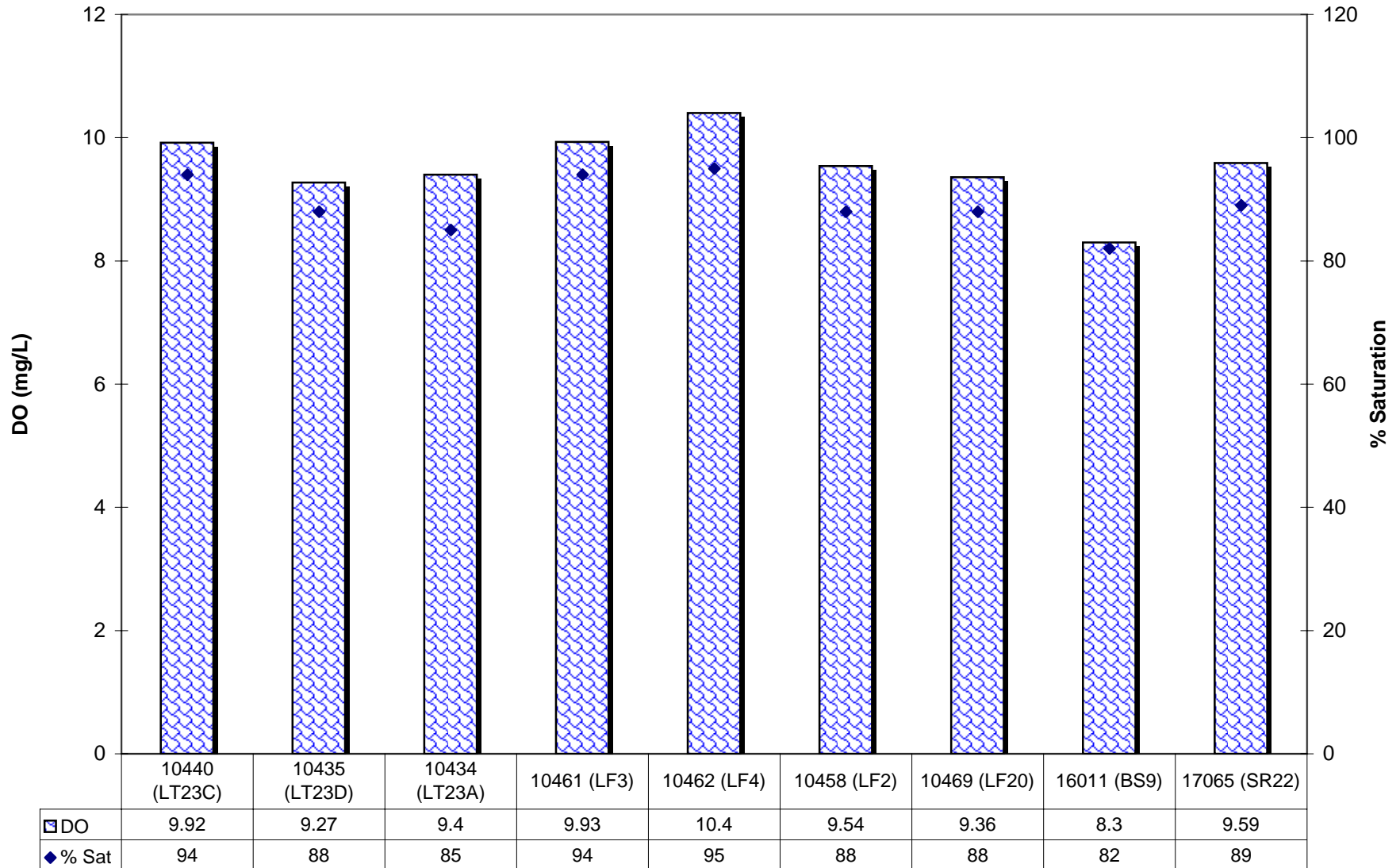
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
1/11/05 11:36 AM	7.00	10440 (LT23C)	12.4	8.33	9.92	94	179	*	0.36	17.7	56	33	< 0.02	0.08	< 0.04	6	75	80	< 10	10
1/11/05 10:42 AM	7.00	10435 (LT23D)	12.1	7.93	9.27	88	191	*	0.42	20.2	45	35	< 0.02	0.1	0.11	7	77	76	< 10	12.4
1/11/05 9:40 AM	7.00	10434 (LT23A)	10.2	8.35	9.4	85	180	*	0.96	4.89	7	30	< 0.02	0.1	< 0.04	6	77	72	< 10	10.2
1/11/05 8:25 AM	6.12	10461 (LF3)	11.6	7.68	9.93	94	154	*	1.31	2.81	2	18	< 0.02	0.15	< 0.04	6	31	40	14.7	18
1/11/05 8:49 AM	6.12	10462 (LF4)	11	7.56	10.4	95	152	*	1.28	3.38	10	16	< 0.02	0.16	< 0.04	6	32	40	14.2	17.8
1/11/05 7:58 AM	6.12	10458 (LF2)	11	7.6	9.54	88	153	*	1.42	2.03	< 1	11	< 0.02	0.24	< 0.04	6	31	40	14.5	17.9
1/11/05 2:04 PM	6.10	10469 (LF20)	11.9	6.73	9.36	88	287	*	0.33	22.2	1120	*	< 0.02	0.13	< 0.04	9	13	72	45	46.1
1/12/05 6:30 AM	6.02	16011 (BS9)	14.1	6.37	8.3	82	174	*	0.43	14.6	579	*	< 0.02	0.16	0.06	11	< 10	40	24.2	28.9
1/11/05 12:55 PM	6.00	17065 (SR22)	11.8	7.59	9.59	89	194	*	0.36	20.6	365	31	< 0.02	0.1	0.06	8	65	72	10.9	16.5
1/11/05 1:35 PM	6.00	10430 (SR21)	11.1	7.42	9.57	88	209	*	0.35	24.3	687	*	< 0.02	0.1	0.11	10	54	56	16.7	22.4
1/11/05 2:30 PM	6.00	10429 (SR19)	10.8	7.3	9.72	89	223	*	0.32	37.9	1414	16	< 0.02	0.12	0.08	10	42	68	23.1	27.7
1/12/05 7:08 AM	5.00	10428 (SR17)	11.3	7.21	9.58	89	223	*	0.24	41.9	816	*	< 0.02	0.13	0.06	10	36	64	25.1	28.7
1/12/05 7:40 AM	5.00	10427 (SR16)	11.2	7.21	9.76	90	244	*	0.28	43.2	980	*	< 0.02	0.14	0.04	10	35	40	30.5	31.1
1/12/05 8:12 AM	5.00	10426 (SR15)	11.1	7.22	9.78	90	256	*	0.26	49.2	1414	*	< 0.02	0.14	< 0.04	10	36	64	33.5	32.1
1/12/05 8:37 AM	5.00	10423 (SR14)	11.3	7.22	9.74	90	272	*	0.27	40.5	770	*	< 0.02	0.23	0.05	9	35	68	37.8	33.7
1/12/05 9:40 AM	5.00	13628 (SR11)	12.3	7.25	9.49	90	235	*	0.26	49.7	345	*	< 0.02	0.25	< 0.04	8	36	64	27.1	24.3
1/12/05 10:20 AM	5.00	10415 (SR10)	13	7.14	9.01	87	233	*	0.25	50.1	687	*	< 0.02	0.22	< 0.04	9	31	64	29.3	31.4

\*: Not sampled on this run

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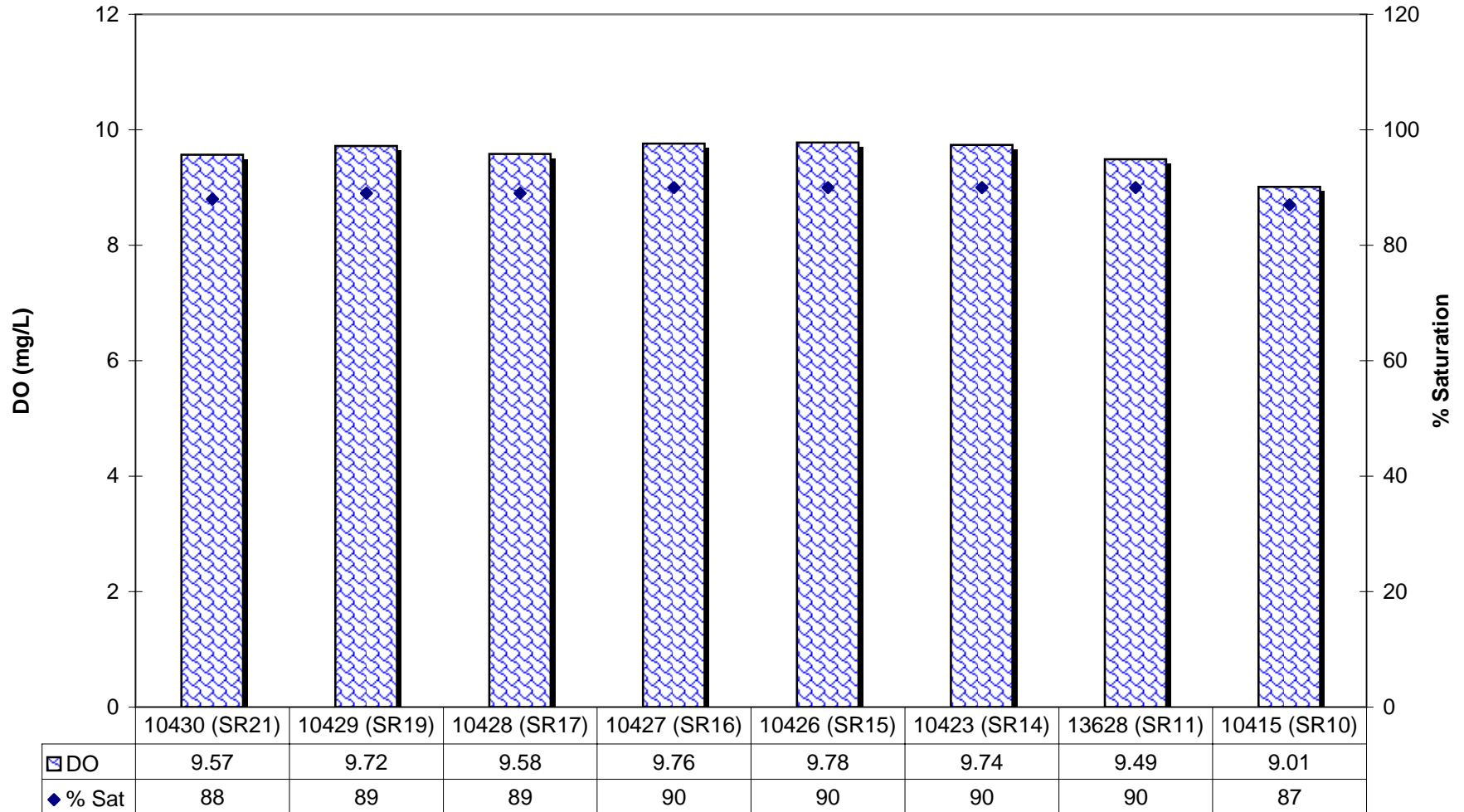
### Upper Sabine Basin DO / % Saturation (1 of 2)



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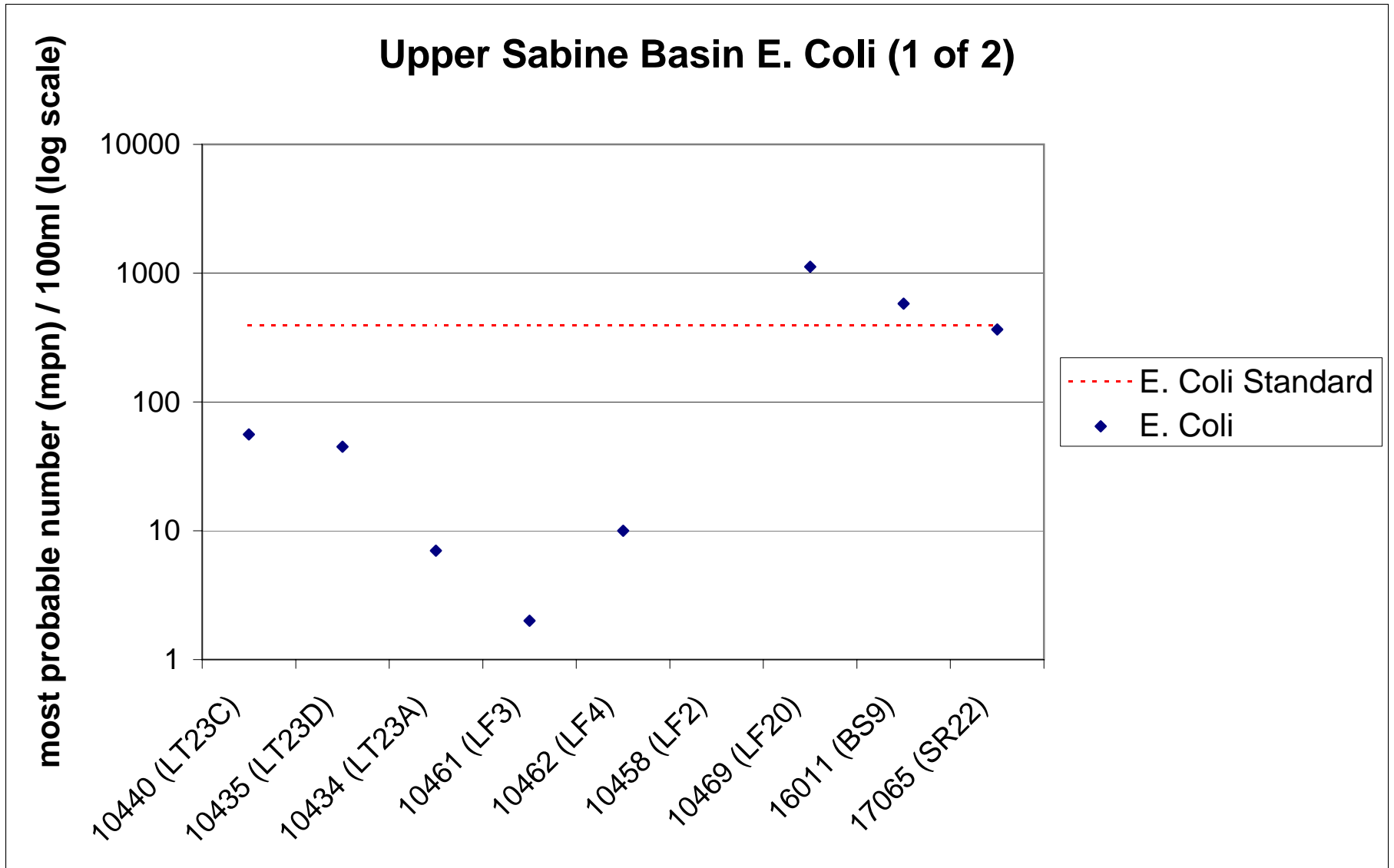
## Upper Sabine Basin DO / % Saturation (2 of 2)





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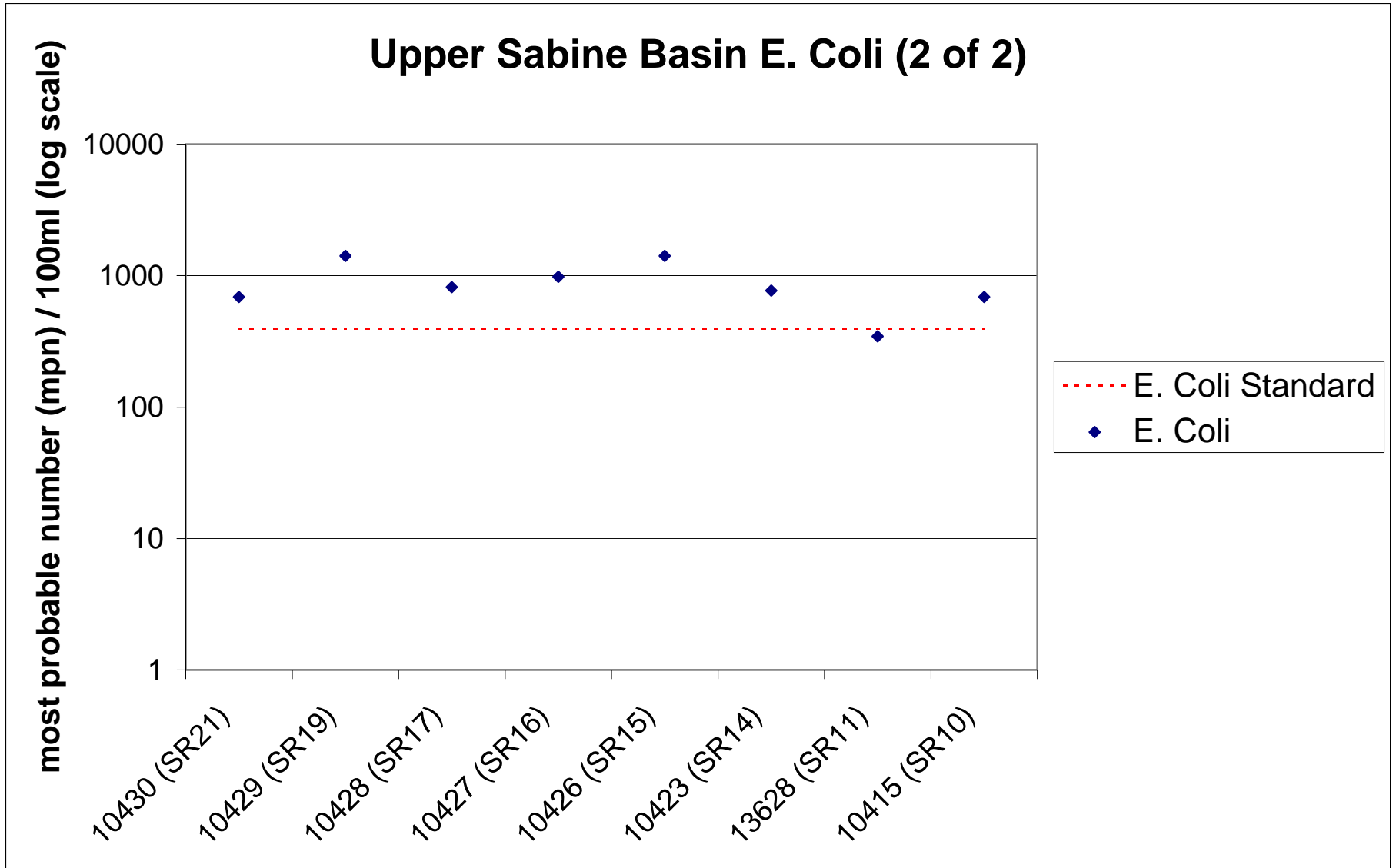
January 2005



Stations without values were below detection limit on this run (see page 2)

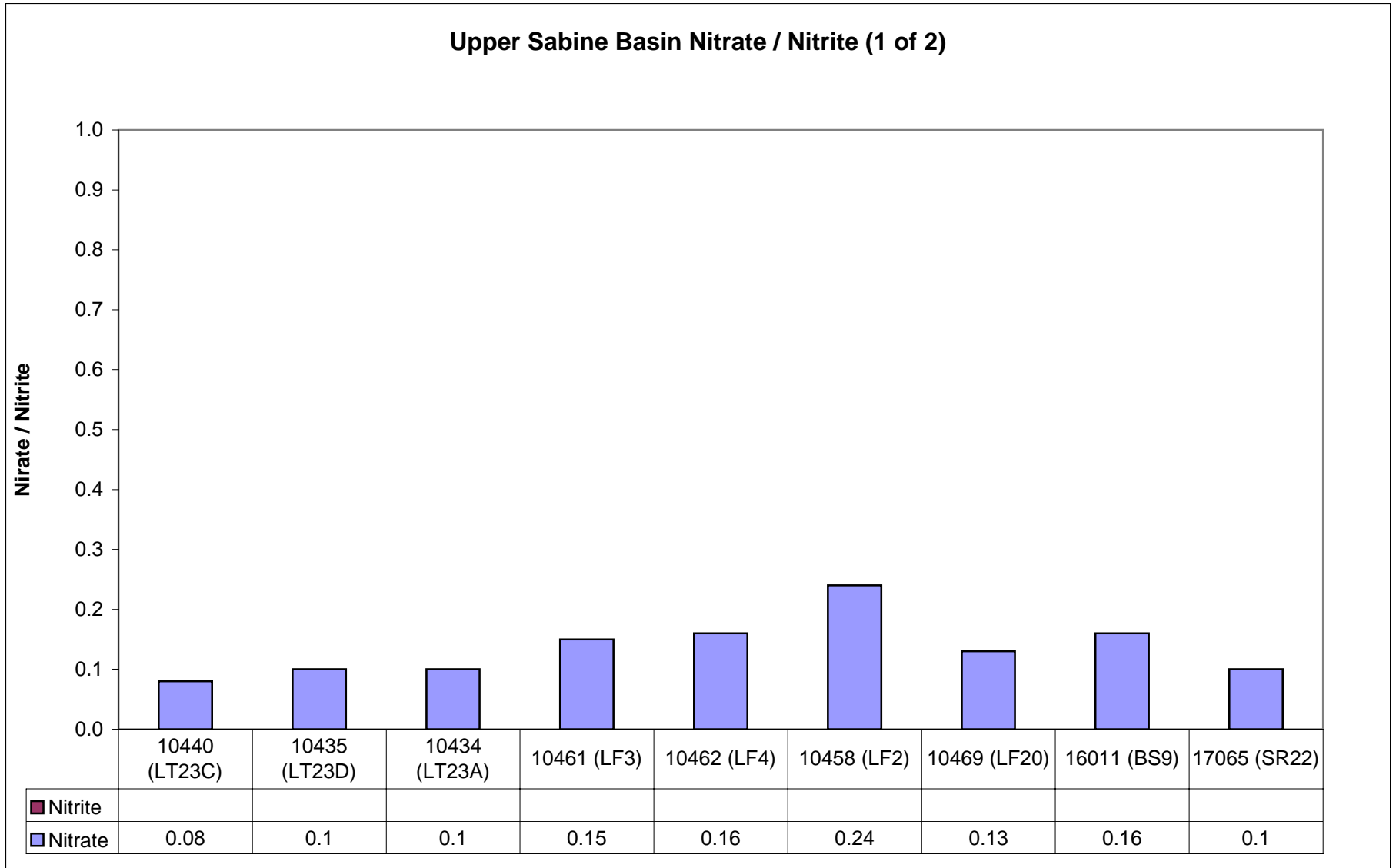
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January 2005

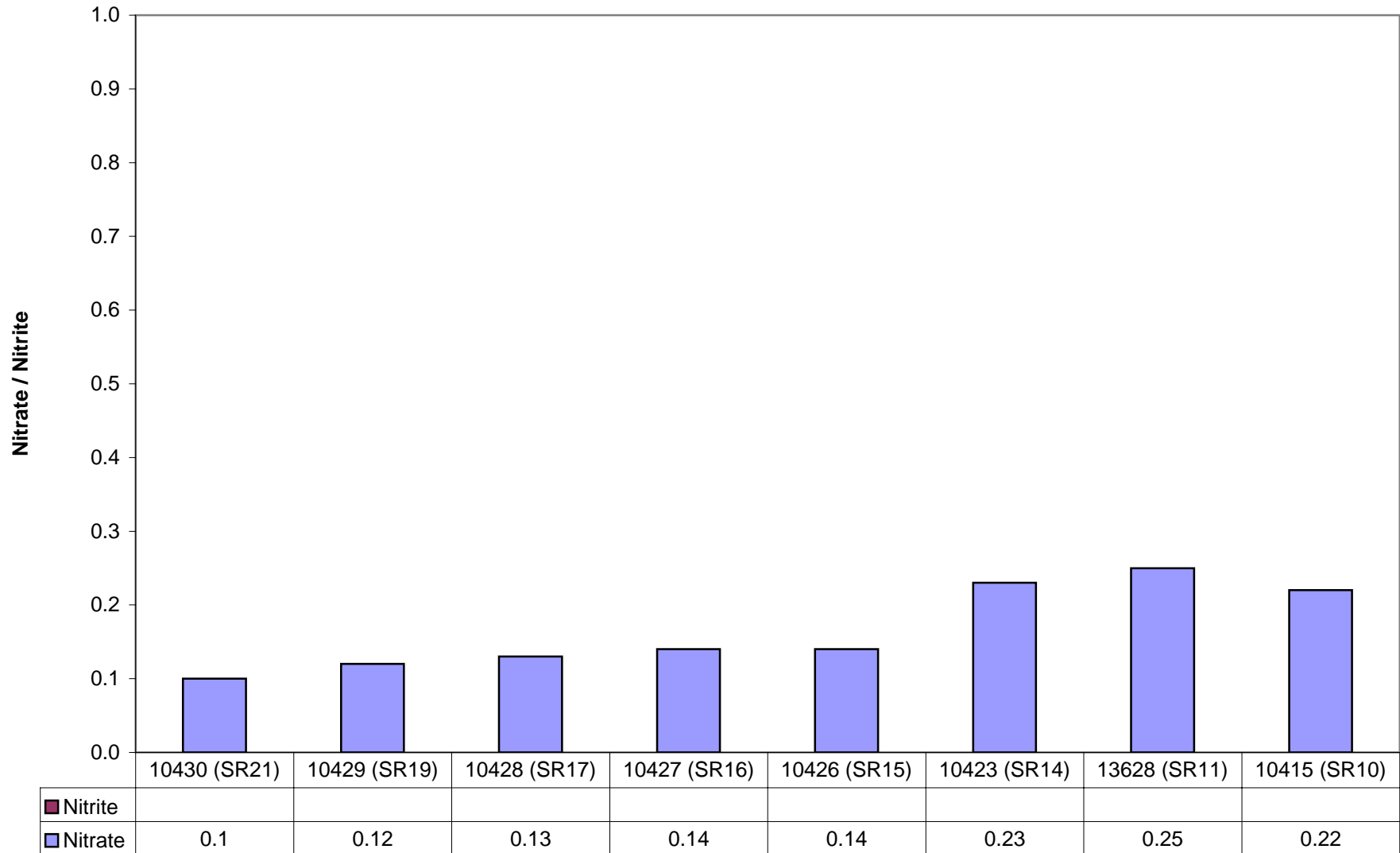


Stations without values below detection limit (< 0.02 mg/L) on this run (see page 2)

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## Upper Sabine Basin Nitrate / Nitrite (2 of 2)



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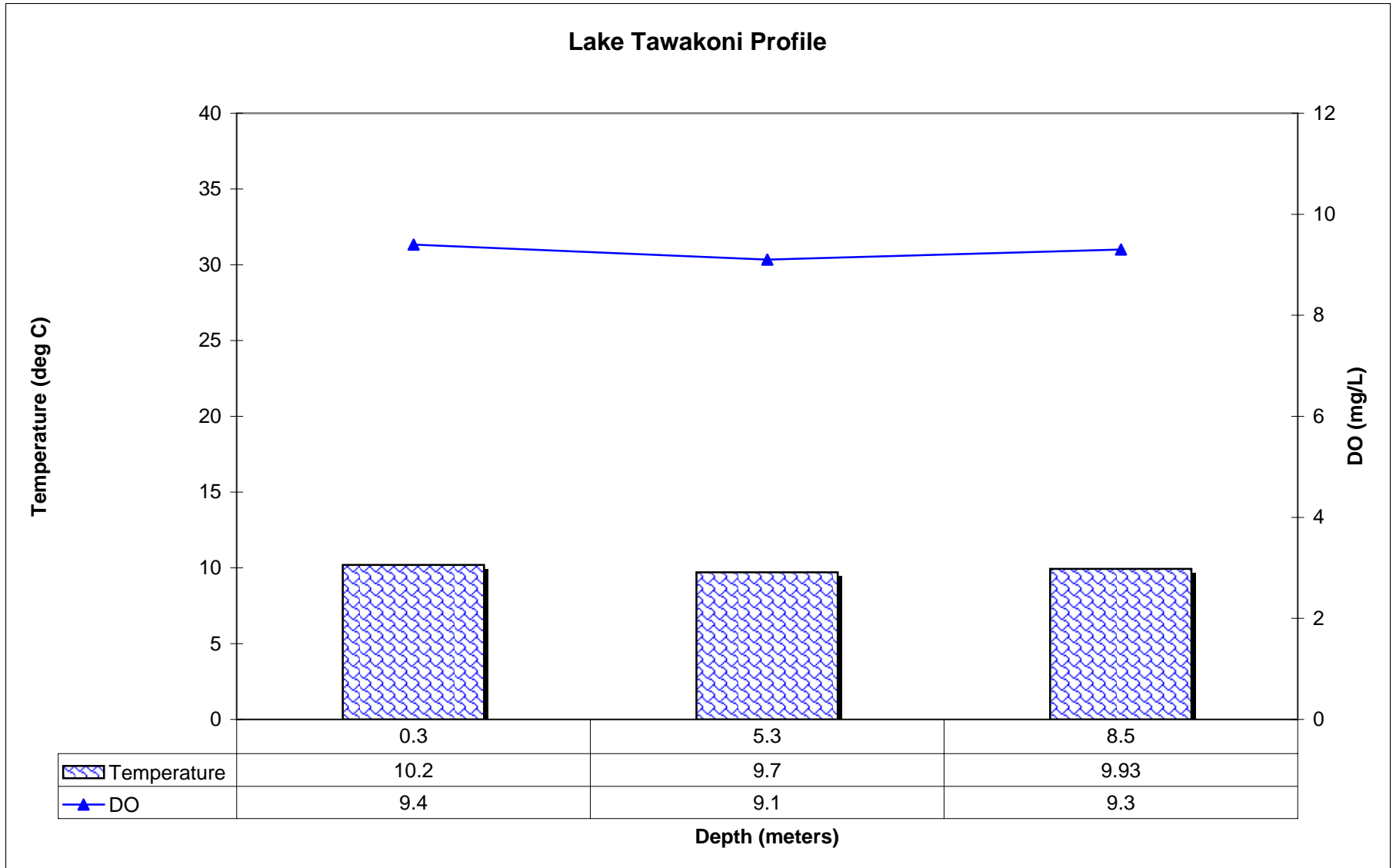
## Upper Basin Profiles

January 2005

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094
1/11/05 11:36 AM	7.00	10440 (LT23C)	0.3	12.4	8.33	9.92	94	179
			2.3	12.3	8.38	9.84	93	179
			4.3	12	8.11	8.64	81	180
1/11/05 10:42 AM	7.00	10435 (LT23D)	0.3	12.1	7.93	9.27	88	191
			3.1	11.5	7.96	9	84	189
			6.8	11.2	7.98	8.94	82	184
1/11/05 9:40 AM	7.00	10434 (LT23A)	0.3	10.2	8.35	9.4	85	180
			5.3	9.7	8.14	9.1	81	180
			8.5	9.93	8.13	9.3	83	179
1/11/05 8:25 AM	6.12	10461 (LF3)	0.3	11.6	7.68	9.93	94	154
			4.9	11.5	7.58	10.1	94	153
			9.5	11.2	7.39	9.16	84	155
1/11/05 8:49 AM	6.12	10462 (LF4)	0.3	11	7.56	10.4	95	152
			5.6	10.9	7.55	10.3	94	152
			11	10.8	7.51	11.1	101	151
1/11/05 7:58 AM	6.12	10458 (LF2)	0.3	11	7.6	9.54	88	153
			6	11.1	7.63	9.07	83	152
			12.9	11.9	7.52	5.36	50	159

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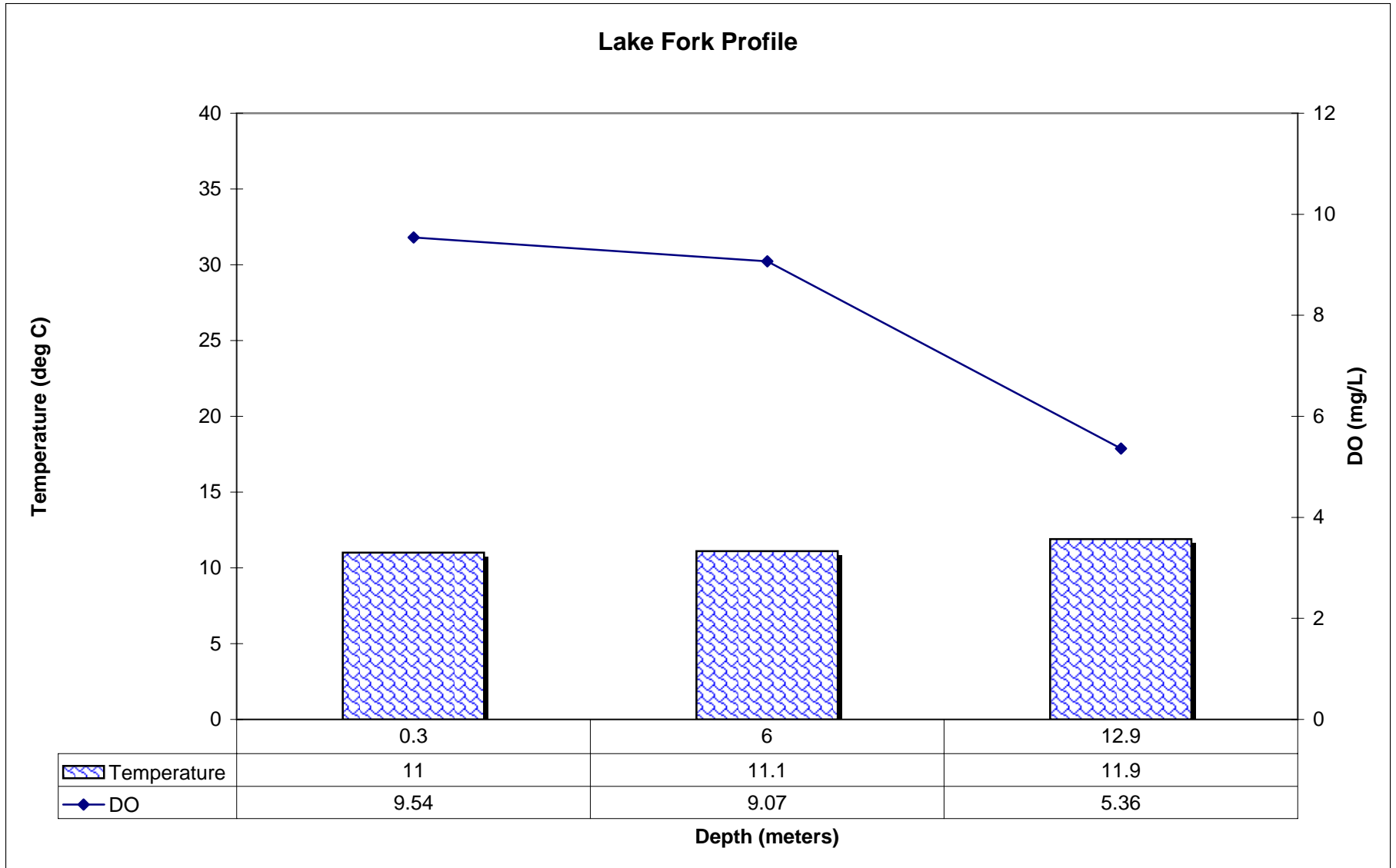
January 2005



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

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## Lake Tawakoni Weather and Reservoir Data

January 2005

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
1/1/2005	437.33	(0.17)	6	71	59	0.00	0.10
1/2/2005	437.38	(0.12)	6	70	62	0.00	0.11
1/3/2005	437.59	0.09	6	67	64	1.22	0.00
1/4/2005	437.90	0.40	236	68	64	0.11	0.01
1/5/2005	438.19	0.69	356	70	64	0.05	0.08
1/6/2005	438.16	0.66	666	65	24	0.22	0.00
1/7/2005	438.15	0.65	666	36	24	0.50	0.00
1/8/2005	438.13	0.63	666	43	28	0.12	0.00
1/9/2005	438.08	0.58	506	54	29	0.00	0.06
1/10/2005	438.05	0.55	666	66	43	0.03	0.05
1/11/2005	438.00	0.50	506	69	60	0.04	0.13
1/12/2005	437.96	0.46	356	70	62	0.00	0.08
1/13/2005	438.11	0.61	506	71	38	0.54	0.16
1/14/2005	438.29	0.79	666	50	31	0.00	0.11
1/15/2005	438.31	0.81	1,046	54	30	0.00	0.12
1/16/2005	438.25	0.75	1,046	51	26	0.00	0.02
1/17/2005	438.16	0.66	846	41	24	0.00	0.00
1/18/2005	438.09	0.59	666	44	25	0.00	FZ
1/19/2005	438.04	0.54	506	46	28	0.00	0.00
1/20/2005	438.00	0.50	506	61	38	0.00	0.05
1/21/2005	437.96	0.46	356	68	39	0.00	0.05
1/22/2005	437.96	0.46	356	74	42	0.00	0.04
1/23/2005	437.85	0.35	356	52	21	0.00	0.00
1/24/2005	437.79	0.29	236	44	21	0.00	0.00
1/25/2005	437.76	0.26	236	57	26	0.00	0.00
1/26/2005	437.76	0.26	236	70	38	0.00	0.16
1/27/2005	437.71	0.21	126	68	44	0.00	0.17
1/28/2005	437.70	0.20	126	57	37	0.12	0.00
1/29/2005	437.69	0.19	126	42	36	0.00	0.03
1/30/2005	437.67	0.17	126	46	38	0.00	0.04
1/31/2005	437.70	0.20	126	44	38	0.50	0.04
<b>Avg or Tot</b>	437.93	0.43	414	58	39	3.45	1.61

	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.				

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

FZ: Gage Frozen

Lake Tawakoni Sampled on 1/11/2005

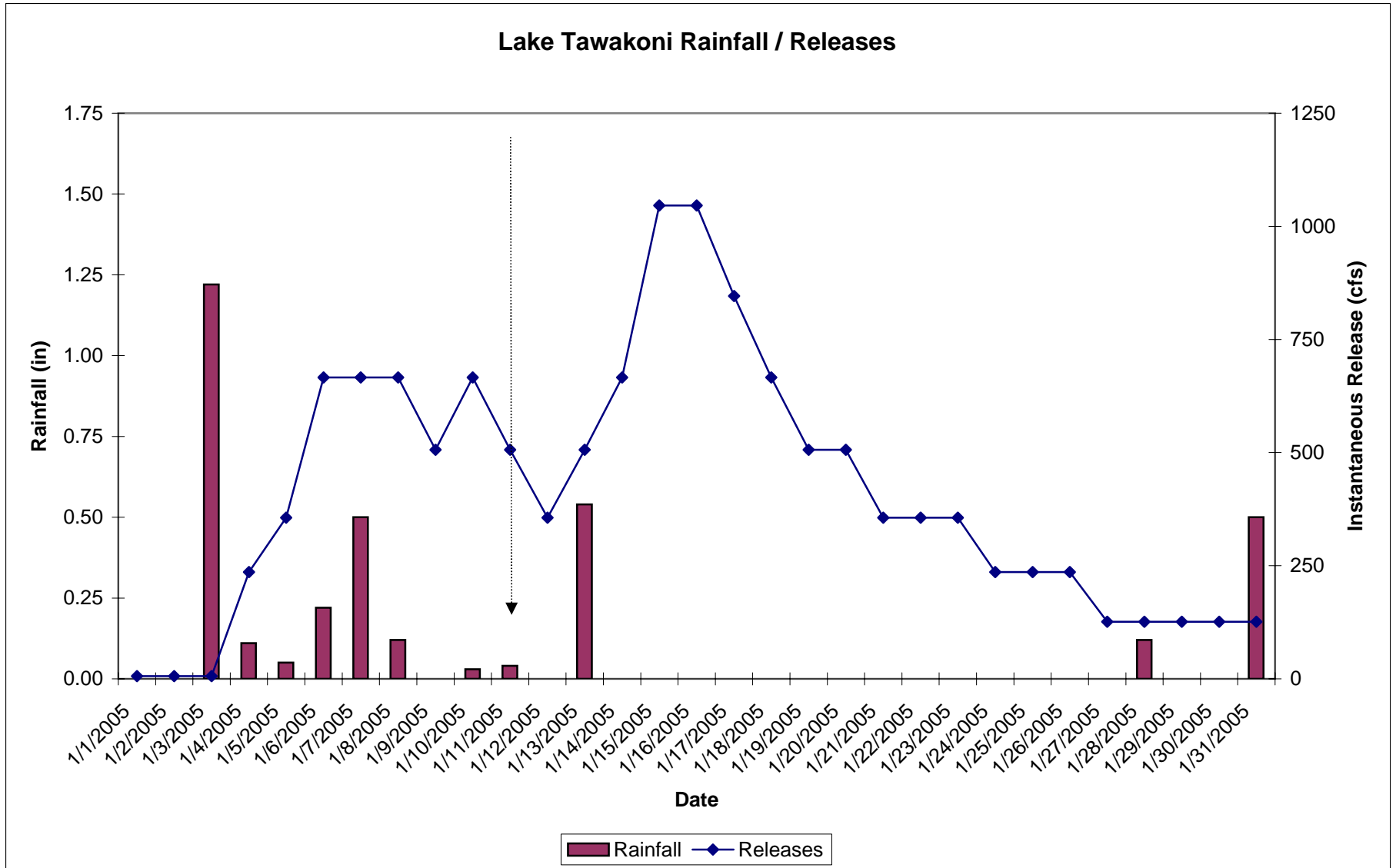
Lake Elev from USGS daily mean elevation  
 USGS 08017400 Lk Tawakoni nr Wills Point, TX  
[http://waterdata.usgs.gov/tx/nwis/dv/?site\\_no=08017400&agency\\_cd=USGS](http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08017400&agency_cd=USGS)  
 Acquired 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX



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January 2005



Please Note : Lake Tawakoni has an uncontrolled spillway.

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## Lake Fork Weather and Reservoir Data

January 2005

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
1/1/2005	402.41	(0.59)	8	8	72	62	0.00	0.04
1/2/2005	402.44	(0.56)	8	8	72	60	0.00	0.04
1/3/2005	402.57	(0.43)	8	8	70	62	0.70	0.08
1/4/2005	402.70	(0.30)	8	8	74	64	0.21	0.06
1/5/2005	402.80	(0.20)	8	8	74	62	0.00	0.06
1/6/2005	402.81	(0.19)	8	8	72	24	0.17	0.10
1/7/2005	402.89	(0.11)	8	8	35	24	0.80	0.02
1/8/2005	403.00	0.00	8	8	46	30	0.13	0.00
1/9/2005	403.03	0.03	8	8	56	28	0.00	0.03
1/10/2005	403.02	0.02	8	2,078	70	42	0.00	0.03
1/11/2005	402.89	(0.11)	2,078	2,073	72	62	0.00	0.07
1/12/2005	402.74	(0.26)	2,073	2,064	74	60	0.00	0.14
1/13/2005	402.71	(0.29)	2,064	2,064	74	38	0.52	0.12
1/14/2005	402.59	(0.41)	2,064	8	52	32	0.00	0.24
1/15/2005	402.59	(0.41)	8	8	56	30	0.00	0.07
1/16/2005	402.60	(0.40)	8	8	54	28	0.00	0.09
1/17/2005	402.57	(0.43)	8	8	46	24	0.00	FZ
1/18/2005	402.56	(0.44)	8	8	46	24	0.00	0.11
1/19/2005	402.55	(0.45)	8	8	50	24	0.00	0.17
1/20/2005	402.55	(0.45)	8	8	64	36	0.00	0.09
1/21/2005	402.55	(0.45)	8	8	70	40	0.00	0.04
1/22/2005	402.59	(0.41)	8	8	78	42	0.00	0.07
1/23/2005	402.55	(0.45)	8	8	56	22	0.00	0.00
1/24/2005	402.53	(0.47)	8	8	44	22	0.00	0.16
1/25/2005	402.52	(0.48)	8	8	60	26	0.00	0.15
1/26/2005	402.53	(0.47)	8	8	72	44	0.00	0.15
1/27/2005	402.52	(0.48)	8	8	74	42	0.00	0.15
1/28/2005	402.52	(0.48)	8	8	46	36	0.10	0.18
1/29/2005	402.53	(0.47)	8	8	44	36	0.00	0.02
1/30/2005	402.53	(0.47)	8	8	48	38	0.00	0.08
1/31/2005	402.57	(0.43)	8	8	48	38	0.65	0.00
<b>Avg or Tot</b>	<b>402.64</b>	<b>(0.36)</b>	<b>274</b>	<b>274</b>	<b>60</b>	<b>39</b>	<b>3.28</b>	<b>2.56</b>

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.

FZ: Gage Frozen

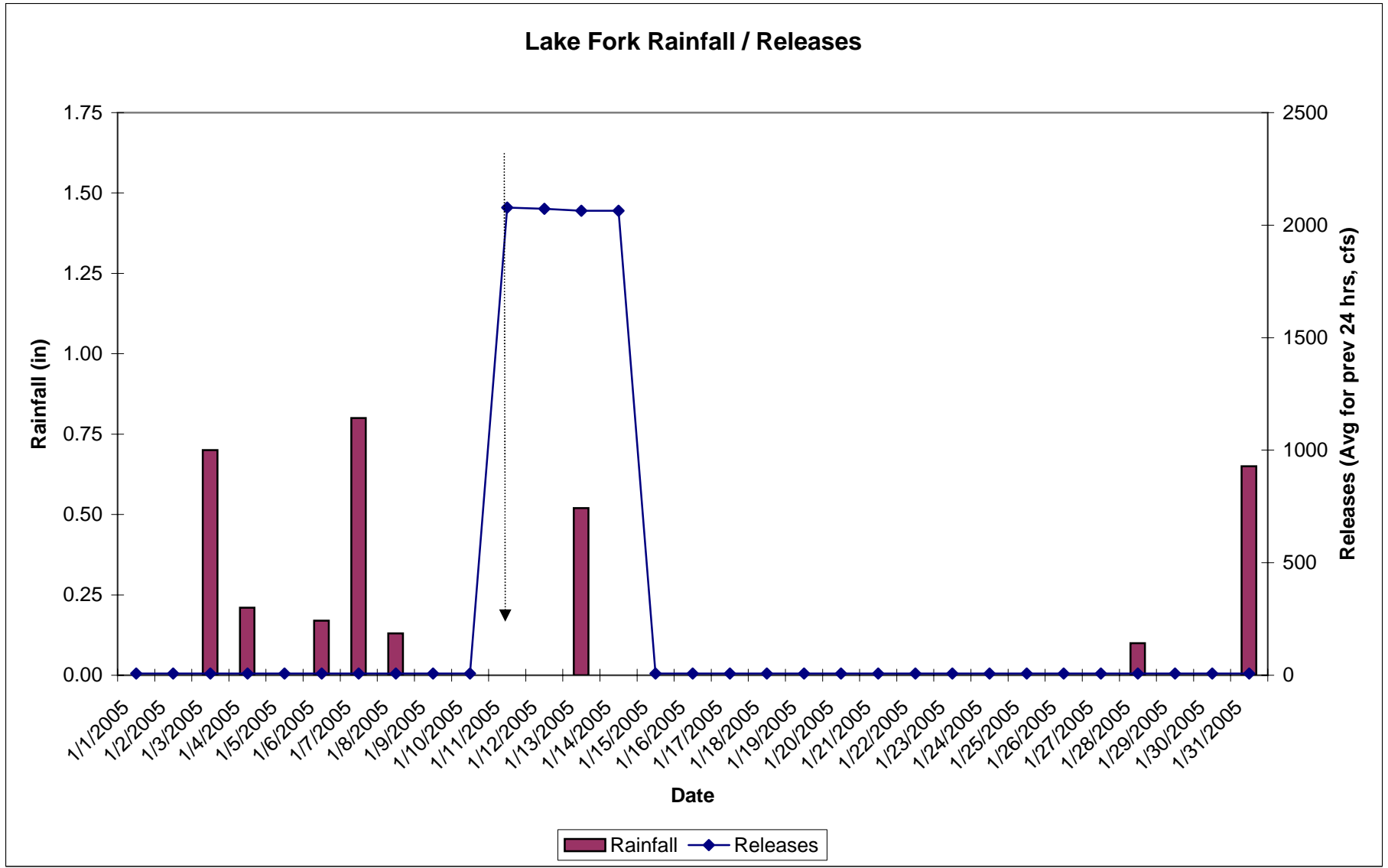
Lake Fork Sampled on 1/11/2005

Lake Elev from USGS daily mean elevation  
 USGS 08018800 Lake Fork Res nr Quitman, TX  
[http://waterdata.usgs.gov/tx/nwis/dv/?site\\_no=08018800&agency\\_cd=USGS](http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08018800&agency_cd=USGS)  
 Acquired 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

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## FY 2005 Fixed Monitoring Stations

### Lower Sabine Basin

SW	Segment	Station	Location
4.00	0504	10403 (TB8)	TOLEDO BEND RESERVOIR AT US 84 NEAR LOGANSPO RT LA
4.00	0504	18051 (TB7A)	TOLEDO BEND RESERVOIR AT RECREATION SITE 1
4.00	0504	18052 (TB6R)	TOLEDO BEND RAGTOWN
4.00	0504	18053 (TB6LN)	TOLEDO BEND RESERVOIR SAN MIGUEL ARM BOAT LANE
4.00	0504	15655 (TB6J)	TOLEDO BEND RESERVOIR PATROON BAYOU BRANCH AT FM 276
4.00	0504	15659 (TB6K)	TOLEDO BEND RESERVOIR IN LANANA BAYOU AT LOUISIANA SH 191 IN SABINE PARISH LOUISIANA WEST OF MANY
4.00	0504	10402 (TB6H)	TOLEDO BEND RESERVOIR AT SH 21 NORTHEAST OF MILAM
4.00	0504	18054 (TB6Q)	TOLEDO BEND RESERVOIR IN NEGREET BAYOU
4.00	0504	10411 (TB6F)	TOLEDO BEND RESERVOIR IN SUNSHINE BAY NEAR FM 3121 BRIDGE
4.00	0504	10407 (TB6CN)	TOLEDO BEND RESERVOIR IN SIX MILE BOAT LANE AT SH 87
4.00	0504	10404 (TB6A)	TOLEDO BEND RESERVOIR MAIN LAKE ABOVE THE DAM AT THE OLD RIVER CHANNEL
3.03	0503	10340 (BA4)	ANACOCO BAYOU AT LOUISIANA HWY 111 CROSSING SOUTHWEST OF KNIGHT LA
3.00	0503	10401 (TB6S)	SABINE RIVER BELOW TOLEDO BEND RESERVOIR AT RIGHT ABUTMENT OF SPILLWAY FOR DAM
3.00	0503	10399 (SR5)	SABINE RIVER AT SH 63 EAST OF BURKEVILLE TX.
3.00	0503	10398 (SR3)	SABINE RIVER AT US 190 EAST OF BON WIER TX.
2.05	0513	10465 (BCC1)	BIG COW CREEK AT FM 1416 SOUTH OF BON WIER
2.00	0502	10397 (SR2)	SABINE RIVER AT SH 12 NORTH OF DEWEYVILLE TX.

# SABINE RIVER AUTHORITY OF TEXAS

## Lower Basin Report

January 2005

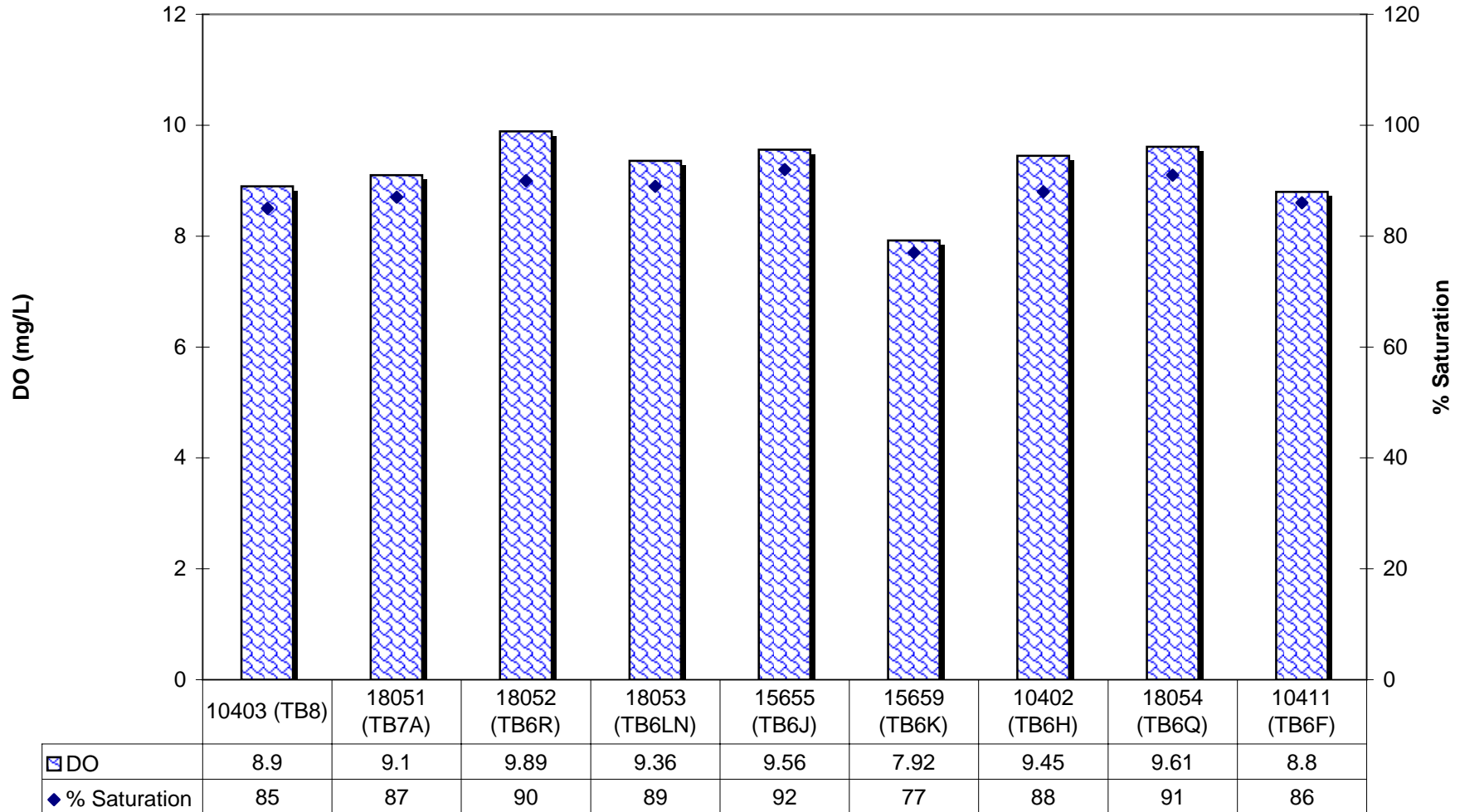
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
1/12/05 11:02 AM	4.00	10403 (TB8)	12.9	6.92	8.9	85	212	*	0.36	35.8	225	*	< 0.02	0.18	< 0.04	10	26	56	28.6	28.8
1/12/05 11:40 AM	4.00	18051 (TB7A)	12.6	6.99	9.1	87	211	*	0.32	35.1	308	*	< 0.02	0.17	< 0.04	11	25	72	28.6	28.5
1/10/05 9:35 AM	4.00	18052 (TB6R)	11.2	7.11	9.89	90	133	*	0.56	12.7	1	8	< 0.02	0.19	0.07	12	22	40	15.1	16.4
1/10/05 11:42 AM	4.00	18053 (TB6LN)	13.2	7.03	9.36	89	124	*	0.63	8.12	3	*	< 0.02	0.1	< 0.04	9	22	40	14.2	14.4
1/11/05 10:00 AM	4.00	15655 (TB6J)	13.5	7.09	9.56	92	161	*	0.54	9.86	6	*	< 0.02	0.15	< 0.04	7	24	40	15.3	27
1/11/05 12:00 PM	4.00	15659 (TB6K)	13.4	6.62	7.92	77	117	*	0.54	15.2	12	*	< 0.02	0.19	< 0.04	9	20	40	11.9	16.8
1/11/05 11:00 AM	4.00	10402 (TB6H)	11.9	7.1	9.45	88	144	*	0.87	5.77	1	8	< 0.02	0.15	< 0.04	9	26	40	16.3	16.6
1/10/05 12:23 PM	4.00	18054 (TB6Q)	12.9	7.21	9.61	91	145	*	1.21	3.17	< 1	*	< 0.02	0.14	< 0.04	7	28	40	16.2	15.7
1/11/05 10:25 AM	4.00	10411 (TB6F)	14.2	6.62	8.8	86	77	*	0.48	16.6	21	11	< 0.02	0.11	< 0.04	4	17	40	< 10	11.4
1/11/05 9:25 AM	4.00	10407 (TB6CN)	14.1	6.4	8.55	83	97	*	0.45	14.2	135	*	< 0.02	0.09	< 0.04	10	14	44	< 10	16.4
1/10/05 1:20 PM	4.00	10404 (TB6A)	12.1	7.18	9.37	87	138	*	1.76	2.07	< 1	4	< 0.02	0.19	< 0.04	6	27	40	15.3	14.9
1/12/05 12:15 PM	3.03	10340 (BA4)	17.2	6.94	8.64	90	242	*	0.24	33.8	42	*	< 0.02	0.11	0.05	10	36	36	10.9	57.3
1/12/05 10:32 AM	3.00	10401 (TB6S)	12.9	7.56	10.5	99	137	*	> 1.22	2.28	3	*	< 0.02	0.18	< 0.04	7	26	48	15.4	15.1
1/12/05 11:45 AM	3.00	10399 (SR5)	13	7.2	10	95	137	*	0.47	11	3	8	< 0.02	0.26	< 0.04	7	28	60	15.4	15
1/12/05 12:35 PM	3.00	10398 (SR3)	14.2	7.23	10.2	99	139	*	0.49	7.41	20	5	< 0.02	0.2	< 0.04	6	27	52	14.8	16.5
1/12/05 9:22 AM	2.05	10465 (BCC1)	15.3	6.51	9.34	93	40	*	0.55	12	91	*	< 0.02	0.09	< 0.04	6	< 10	40	< 10	< 10
1/12/05 8:45 AM	2.00	10397 (SR2)	15.8	6.85	8.54	86	122	*	0.4	13.6	50	< 3	< 0.02	0.09	< 0.04	7	28	40	< 10	15.8

\*: Not sampled on this run

# SABINE RIVER AUTHORITY OF TEXAS

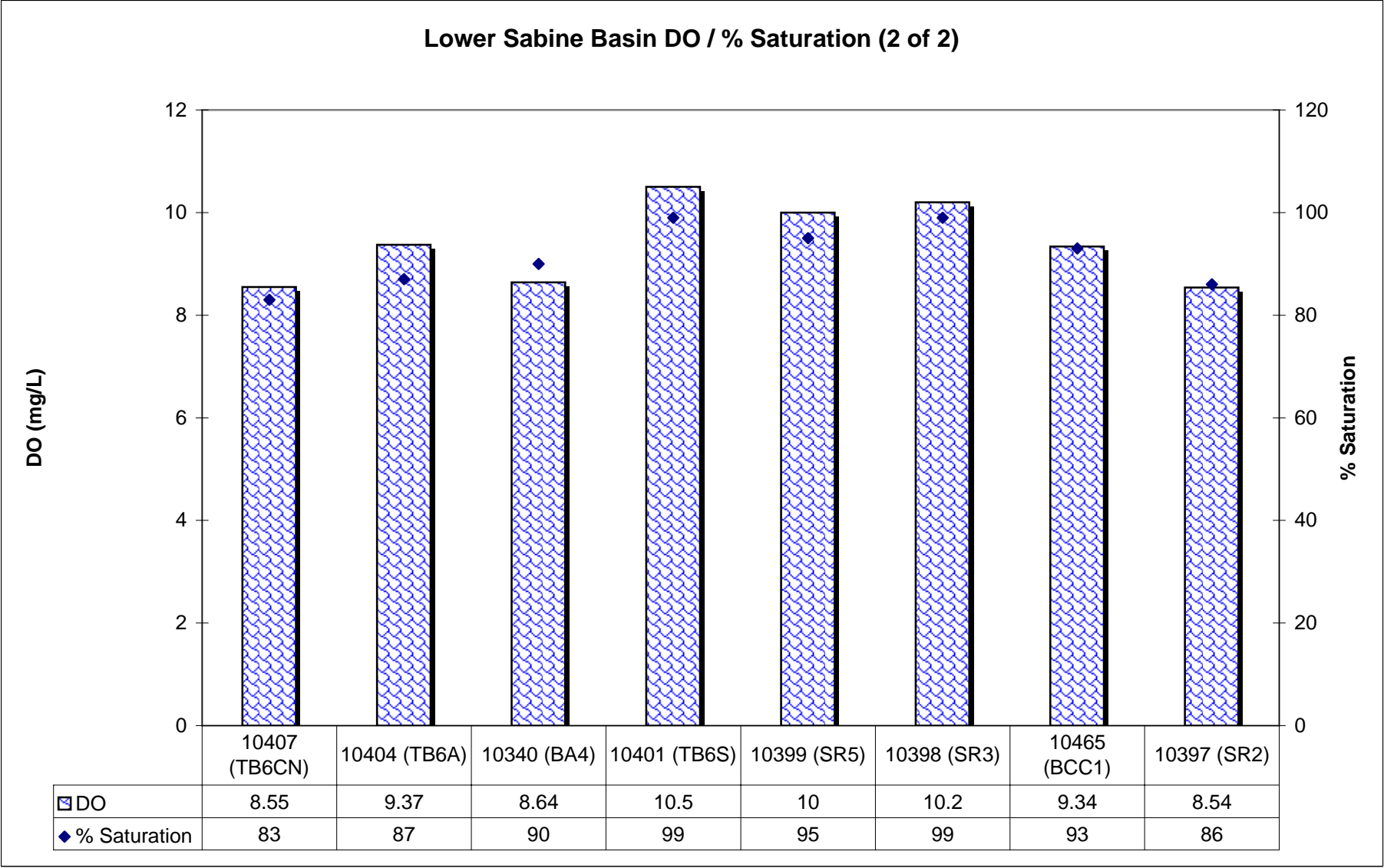
January 2005

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



# SABINE RIVER AUTHORITY OF TEXAS

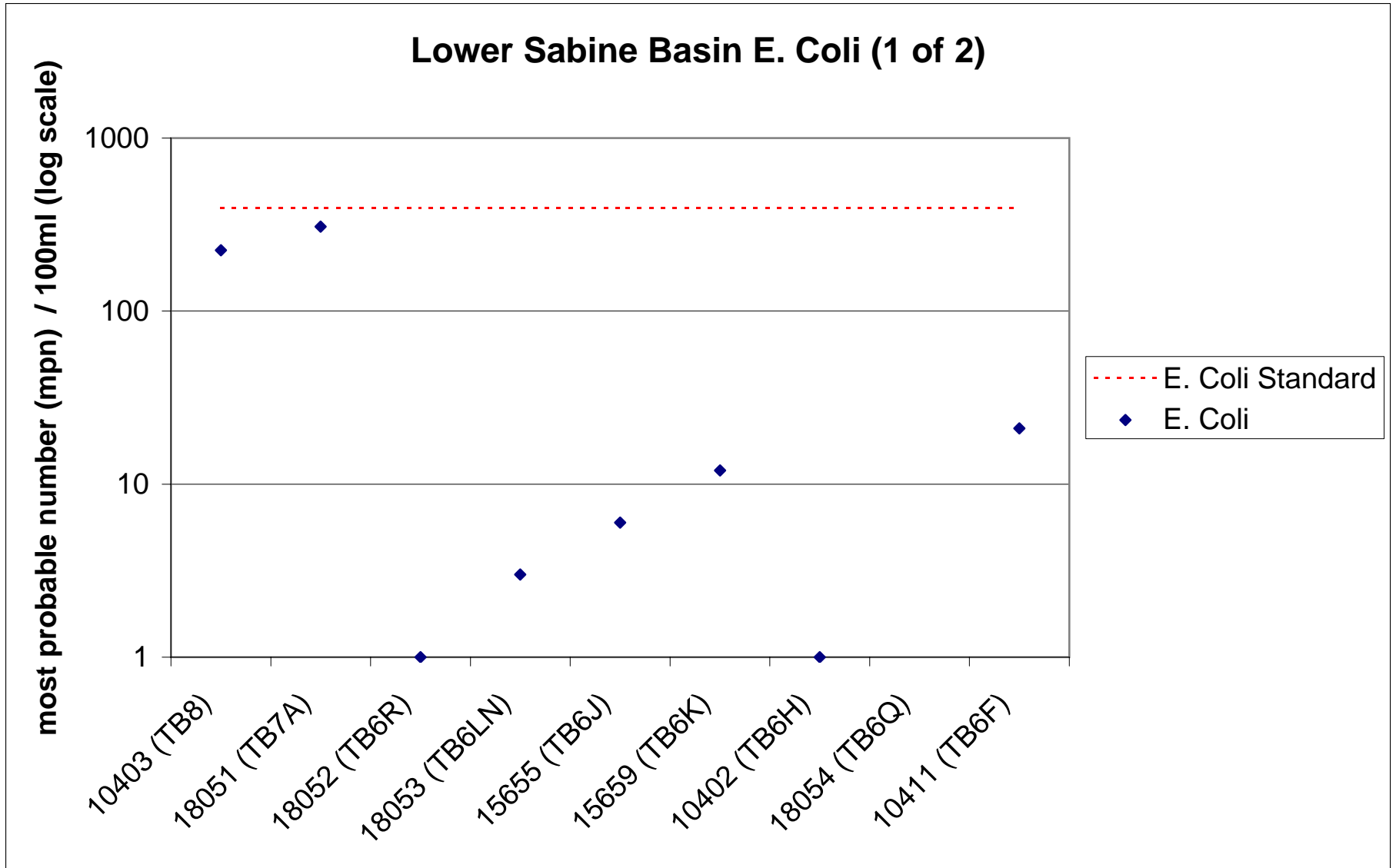
January 2005





# SABINE RIVER AUTHORITY OF TEXAS

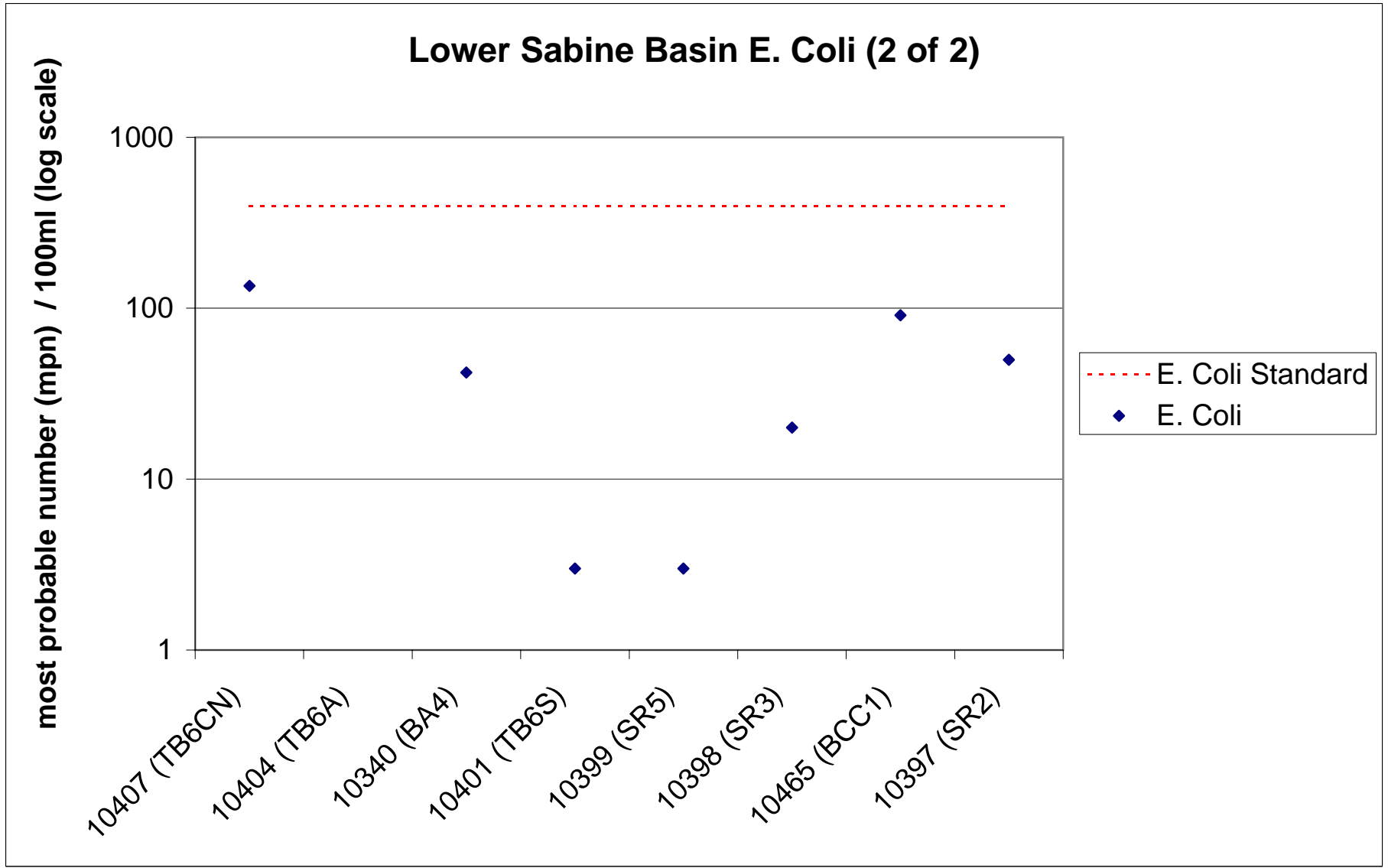
January 2005



Stations without values were below detection limit on this run (see page 18)

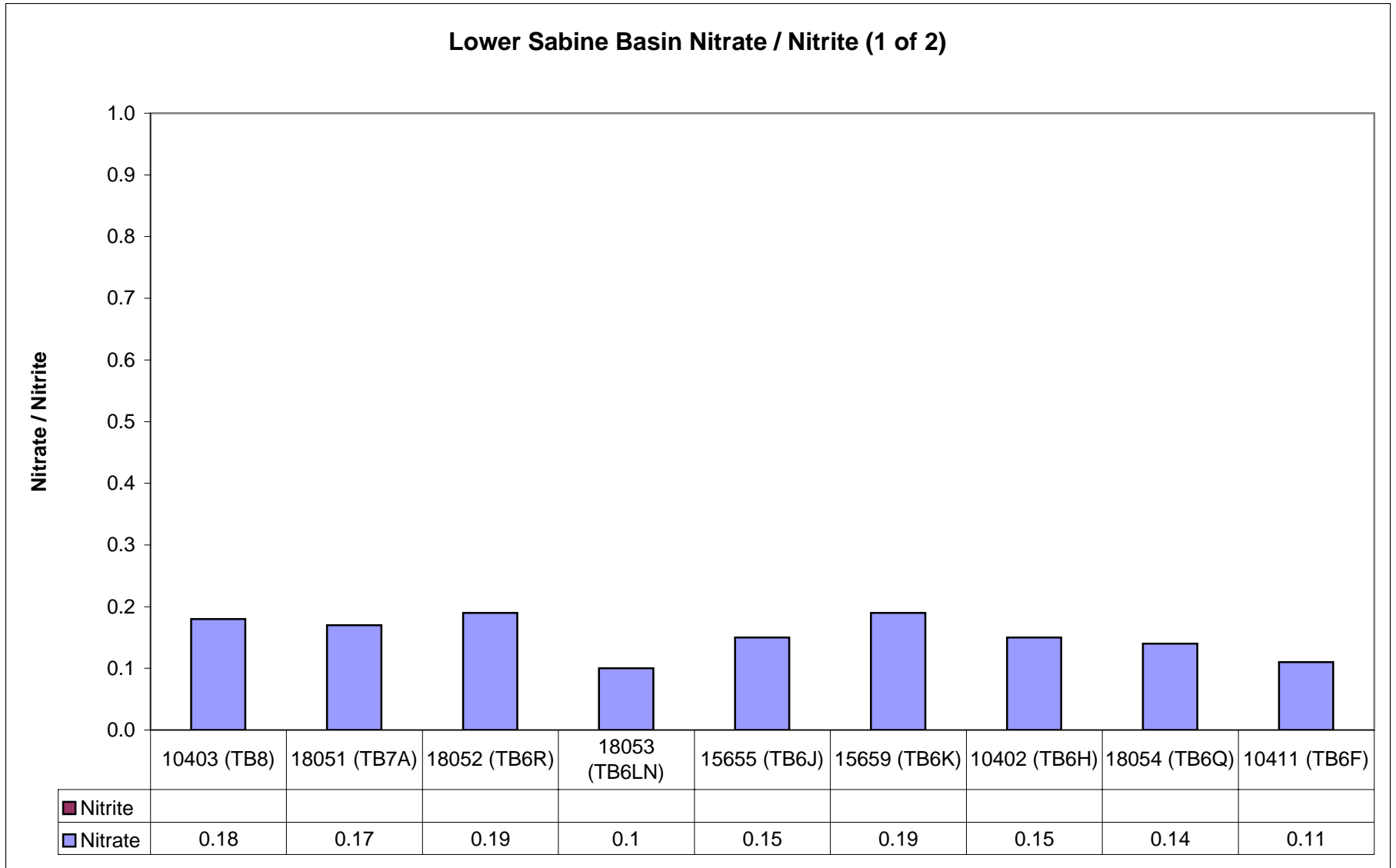
# SABINE RIVER AUTHORITY OF TEXAS

January 2005



# SABINE RIVER AUTHORITY OF TEXAS

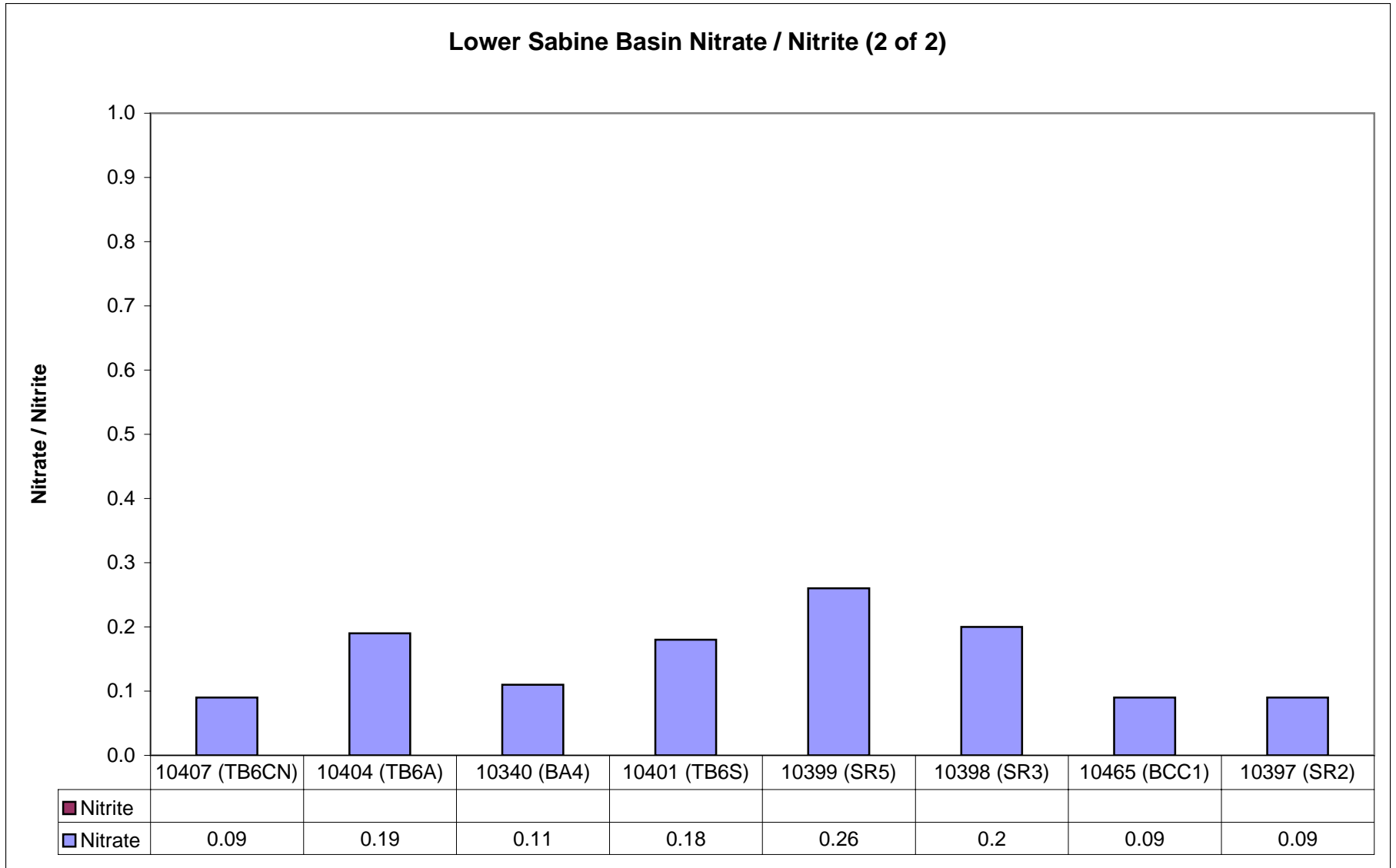
January 2005



Stations without values below detection limit (< 0.02 mg/L) on this run (see page 18)

# SABINE RIVER AUTHORITY OF TEXAS

January 2005



Stations without values below detection limit (< 0.02 mg/L) on this run (see page 18)

# SABINE RIVER AUTHORITY OF TEXAS

## Lower Basin Profiles

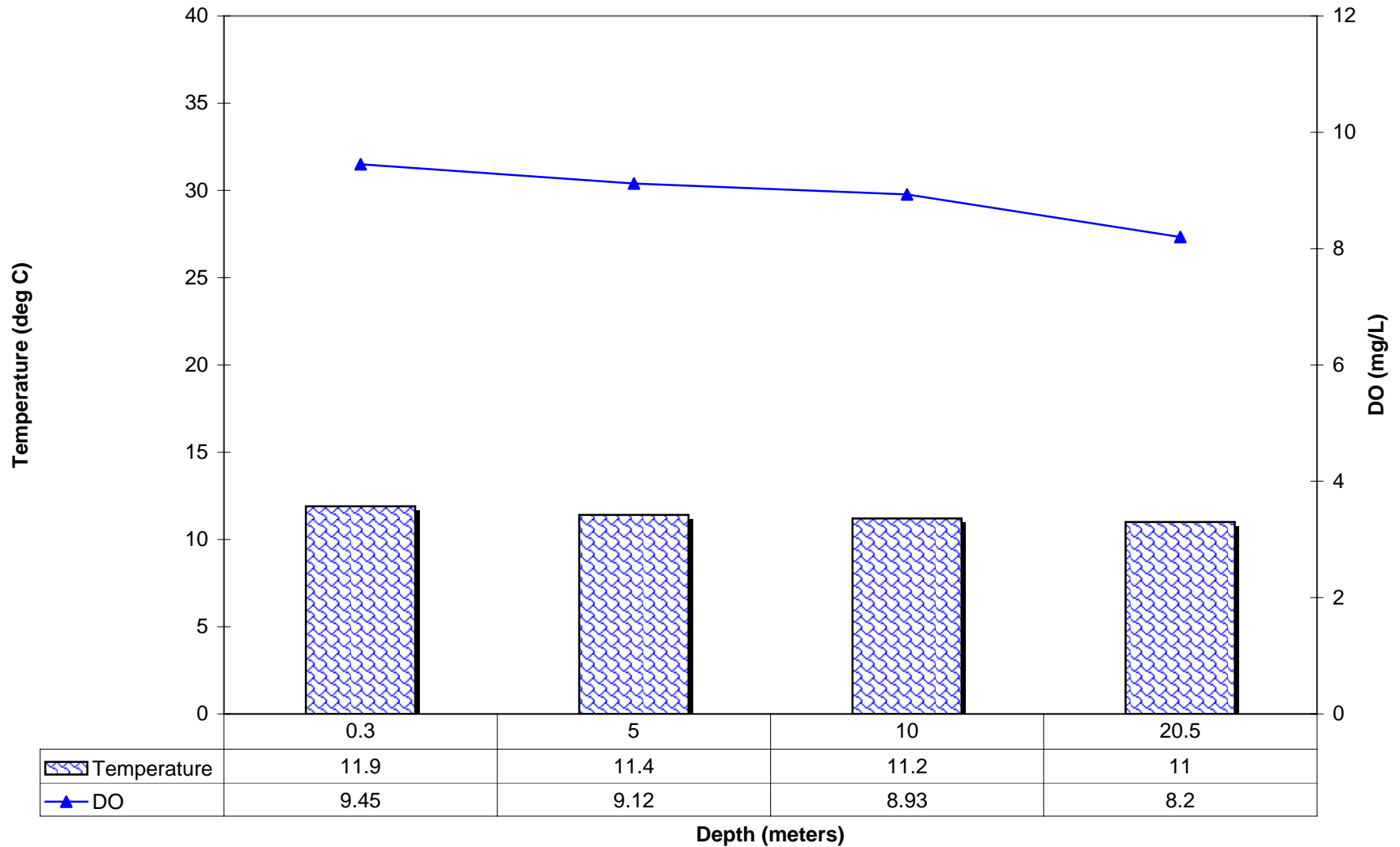
January 2005

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094
1/12/05 11:40 AM	4.00	18051 (TB7A)	0.3	12.6	6.99	9.1	87	211
			5	12.5	6.99	8.81	84	212
			9.6	12.5	6.89	7.25	69	213
1/10/05 9:35 AM	4.00	18052 (TB6R)	0.3	11.2	7.11	9.89	90	133
			5	11.2	7.09	9.87	89	133
			10	11.1	7.08	9.78	89	133
			15.3	11	7.16	9.05	85	133
1/10/05 11:42 AM	4.00	18053 (TB6LN)	0.3	13.2	7.03	9.36	89	124
			2.5	13.2	7.04	9.3	89	124
			5.5	12.9	7.07	8.59	81	121
1/11/05 10:00 AM	4.00	15655 (TB6J)	0.3	13.5	7.09	9.56	92	161
			2	13.3	7.14	9.41	90	160
			4.1	13.2	7.21	8.45	81	165
1/11/05 12:00 PM	4.00	15659 (TB6K)	0.3	13.4	6.62	7.92	77	117
			2.5	12.6	6.59	7.1	67	111
			5	12.4	6.61	6.54	62	112
			8.5	12.2	6.65	5.88	55	114
1/11/05 11:00 AM	4.00	10402 (TB6H)	0.3	11.9	7.1	9.45	88	144
			5	11.4	7.03	9.12	83	141
			10	11.2	7.01	8.93	81	140
			20.5	11	7.05	8.2	75	141
1/10/05 12:23 PM	4.00	18054 (TB6Q)	0.3	12.9	7.21	9.61	91	145
			2.5	12.8	7.15	9.46	89	144
			5	12.6	7.07	8.87	84	145
			8.2	11.9	7.1	6.32	58	150
1/11/05 10:25 AM	4.00	10411 (TB6F)	0.3	14.2	6.62	8.8	86	77
			2.5	12.5	6.52	7.57	72	76
			4.8	11.9	6.81	5.09	47	73
1/11/05 9:25 AM	4.00	10407 (TB6CN)	0.3	14.1	6.4	8.55	83	97
			3.2	11.7	6.36	7.52	70	120
			6.2	11.4	6.54	7.55	69	126
1/10/05 1:20 PM	4.00	10404 (TB6A)	0.3	12.1	7.18	9.37	87	138
			5	11.9	7.16	9.24	85	138
			10	11.8	7.16	9.24	86	138
			17	11.7	7.21	9.01	83	137

# SABINE RIVER AUTHORITY OF TEXAS

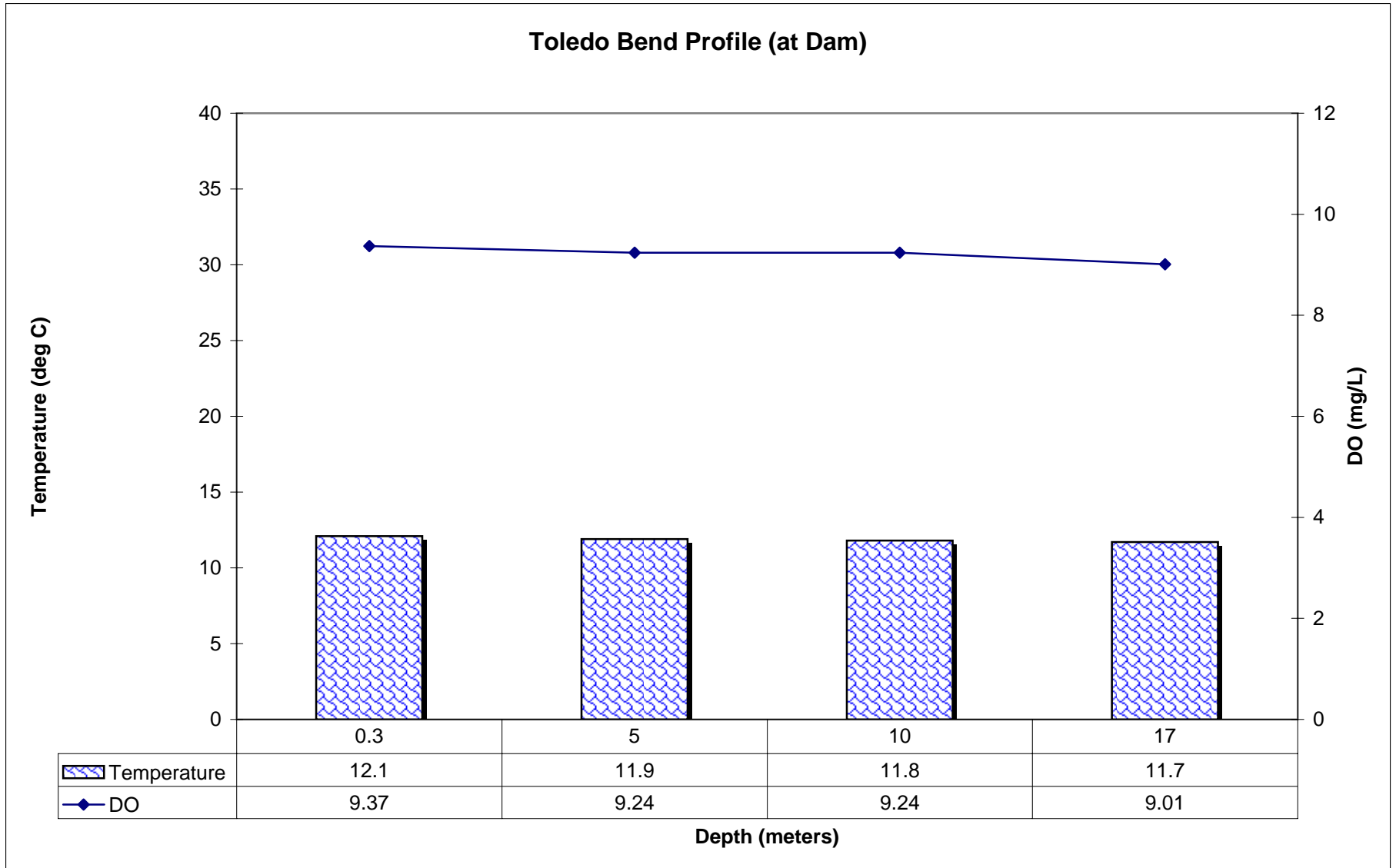
January 2005

## Toledo Bend Profile (at Pendleton Bridge)



# SABINE RIVER AUTHORITY OF TEXAS

January 2005



# SABINE RIVER AUTHORITY OF TEXAS

## Toledo Bend Weather and Reservoir Data

January 2005

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
1/1/2005	168.72	(3.28)	73	58	0.03	0.00	7,582	15,038	7,574
1/2/2005	168.67	(3.33)	73	62	0.01	0.07	7,542	14,959	7,589
1/3/2005	168.61	(3.39)	73	63	0.01	0.04	7,534	14,943	7,524
1/4/2005	168.65	(3.35)	73	61	0.00	0.08	3,085	6,119	7,708
1/5/2005	168.74	(3.26)	67	62	0.07	0.01	204	405	204
1/6/2005	168.91	(3.09)	74	40	0.13	0.16	204	405	204
1/7/2005	168.88	(3.12)	41	37	0.01	0.05	204	405	204
1/8/2005	168.96	(3.04)	49	41	0.15	0.02	204	405	204
1/9/2005	168.99	(3.01)	53	37	0.00	0.07	204	405	204
1/10/2005	168.99	(3.01)	66	37	0.00	0.05	4,639	9,201	204
1/11/2005	168.95	(3.05)	65	58	0.02	0.02	7,865	15,600	7,774
1/12/2005	168.87	(3.13)	74	63	0.00	0.04	7,744	15,360	7,744
1/13/2005	169.29	(2.71)	74	54	1.53	0.00	7,807	15,485	7,744
1/14/2005	169.43	(2.57)	55	35	0.00	0.12	3,938	7,811	7,024
1/15/2005	169.59	(2.41)	55	33	0.00	0.07	1,625	3,223	144
1/16/2005	169.65	(2.35)	51	32	0.00	0.09	7,639	15,152	7,624
1/17/2005	169.63	(2.37)	51	26	0.00	0.08	7,574	15,023	7,594
1/18/2005	169.60	(2.40)	46	26	0.00	0.08	10,368	20,565	7,574
1/19/2005	169.49	(2.51)	45	27	0.00	0.10	13,561	26,898	15,074
1/20/2005	169.46	(2.54)	62	34	0.00	0.01	12,167	24,133	7,674
1/21/2005	169.33	(2.67)	69	46	0.00	0.09	15,311	30,369	15,294
1/22/2005	169.38	(2.62)	73	47	0.00	0.10	15,369	30,484	15,244
1/23/2005	169.19	(2.81)	66	28	0.00	0.15	15,459	30,662	15,494
1/24/2005	168.97	(3.03)	43	27	0.00	0.08	10,358	20,545	15,424
1/25/2005	168.92	(3.08)	57	26	0.00	0.15	7,739	15,350	7,774
1/26/2005	168.91	(3.09)	68	37	0.00	0.10	7,634	15,142	7,704
1/27/2005	168.89	(3.11)	71	44	0.00	0.16	7,619	15,112	7,774
1/28/2005	168.86	(3.14)	49	44	0.00	0.20	7,604	15,082	7,634
1/29/2005	168.87	(3.13)	46	41	0.28	0.01	7,587	15,048	7,574
1/30/2005	168.86	(3.14)	48	41	0.00	0.03	7,557	14,989	7,599
1/31/2005	168.98	(3.02)	51	41	0.13	0.01	7,574	15,023	7,574
<b>Avg or Tot</b>	169.07	(2.93)	60	42	2.37	2.24	7,145	439,341	

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.

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

Toledo Bend Sampled on 1/10,11,12/2005

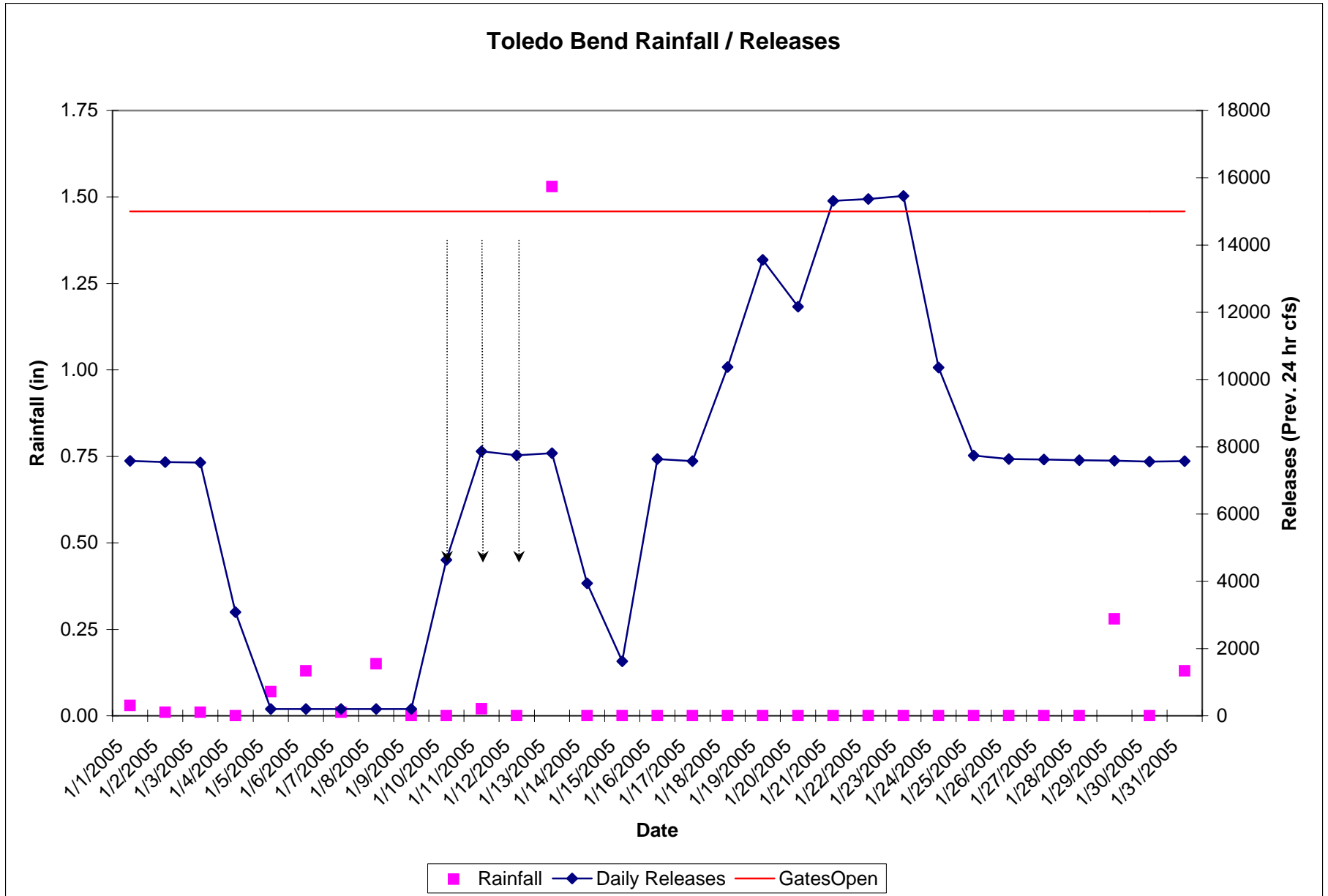
Lake Elev from USGS daily mean elevation  
 USGS 08025350 Toledo Bd Res nr Burkeville, TX  
[http://waterdata.usgs.gov/tx/nwis/dv/?site\\_no=08025350&agency\\_cd=USGS](http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08025350&agency_cd=USGS)  
 Acquired 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX



# SABINE RIVER AUTHORITY OF TEXAS

January 2005



Toledo Bend sampled on 1/10,11/12/2005

Flood gates open when flow greater than approximately 15,000 cfs

# SABINE RIVER AUTHORITY OF TEXAS

## Ruliff Weather and River Data

January 2005

<b>Date</b>	<b>Gauge Height</b>	<b>GH - FS</b>	<b>Flow cfs</b>	<b>Flow acft</b>	<b>309 Rainfall</b>
1/1/2005	23.96	(0.04)	17,400	34,512	OUT
1/2/2005	23.92	(0.08)	17,000	33,719	OUT
1/3/2005	23.78	(0.22)	15,700	31,140	OUT
1/4/2005	23.55	(0.45)	13,700	27,174	OUT
1/5/2005	23.31	(0.69)	12,200	24,198	OUT
1/6/2005	23.05	(0.95)	10,900	21,620	OUT
1/7/2005	22.33	(1.67)	8,490	16,840	OUT
1/8/2005	20.79	(3.21)	5,500	10,909	OUT
1/9/2005	19.28	(4.72)	3,610	7,160	OUT
1/10/2005	18.55	(5.45)	3,020	5,990	OUT
1/11/2005	18.23	(5.77)	2,790	5,534	OUT
1/12/2005	18.86	(5.14)	3,290	6,526	OUT
1/13/2005	21.04	(2.96)	5,900	11,702	OUT
1/14/2005	22.11	(1.89)	7,890	15,650	OUT
1/15/2005	22.64	(1.36)	9,310	18,466	OUT
1/16/2005	22.97	(1.03)	10,400	20,628	OUT
1/17/2005	22.92	(1.08)	10,300	20,430	OUT
1/18/2005	22.59	(1.41)	9,130	18,109	OUT
1/19/2005	22.49	(1.51)	8,820	17,494	OUT
1/20/2005	22.60	(1.40)	9,160	18,169	OUT
1/21/2005	22.82	(1.18)	9,910	19,656	OUT
1/22/2005	23.07	(0.93)	10,900	21,620	OUT
1/23/2005	23.25	(0.75)	11,900	23,603	OUT
1/24/2005	23.39	(0.61)	12,700	25,190	OUT
1/25/2005	23.52	(0.48)	13,500	26,777	OUT
1/26/2005	23.61	(0.39)	14,200	28,165	OUT
1/27/2005	23.60	(0.40)	14,100	27,967	OUT
1/28/2005	23.44	(0.56)	13,000	25,785	OUT
1/29/2005	23.16	(0.84)	11,400	22,612	OUT
1/30/2005	22.91	(1.09)	10,200	20,231	OUT
1/31/2005	22.82	(1.18)	9,920	19,676	OUT
<b>Avg or Tot</b>	22.41	(1.59)	10,201	627,253	0.00

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

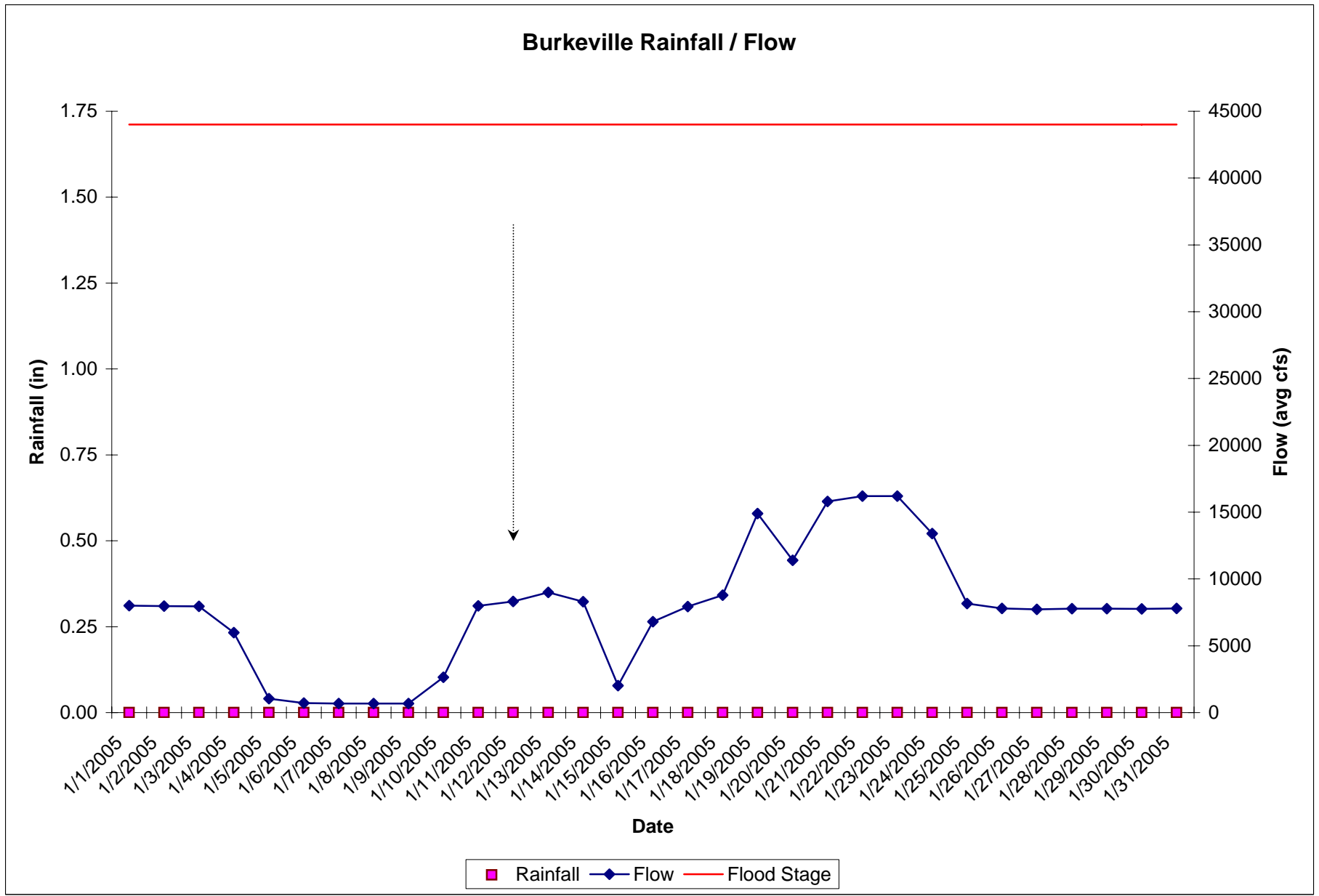
Lower Sabine Basin Sampled on 1/12/2005

Gauge Height and Flow from USGS daily mean Gage height and Discharge, respectively  
 USGS 08030500 Sabine Rv nr Ruliff, TX  
[http://waterdata.usgs.gov/tx/nwis/dv/?site\\_no=08030500&agency\\_cd=USGS](http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08030500&agency_cd=USGS)  
 Acquired 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

# SABINE RIVER AUTHORITY OF TEXAS

January 2005



Flood stage flow of 44,000 cfs calculated from flood stage gage height, 38 ft msl. (latest available rating curve; not USGS Web site)

# SABINE RIVER AUTHORITY OF TEXAS

## Bon Wier Weather and River Data

January 2005

<b>Date</b>	<b>Gauge Height</b>	<b>GH - FS</b>	<b>Flow Avg</b>	<b>308 Rainfall</b>
1/1/2005	21.91	(8.09)	9,700	OUT
1/2/2005	21.47	(8.53)	9,030	OUT
1/3/2005	21.37	(8.63)	8,880	OUT
1/4/2005	21.27	(8.73)	8,740	OUT
1/5/2005	18.73	(11.27)	5,410	OUT
1/6/2005	15.50	(14.50)	2,130	OUT
1/7/2005	14.79	(15.21)	1,620	OUT
1/8/2005	14.68	(15.32)	1,540	OUT
1/9/2005	14.63	(15.37)	1,510	OUT
1/10/2005	14.55	(15.45)	1,460	OUT
1/11/2005	17.71	(12.29)	4,480	OUT
1/12/2005	21.14	(8.86)	8,540	OUT
1/13/2005	21.56	(8.44)	9,170	OUT
1/14/2005	22.75	(7.25)	11,000	OUT
1/15/2005	20.84	(9.16)	8,180	OUT
1/16/2005	17.90	(12.10)	4,380	OUT
1/17/2005	20.88	(9.12)	8,160	OUT
1/18/2005	21.22	(8.78)	8,650	OUT
1/19/2005	22.74	(7.26)	11,100	OUT
1/20/2005	24.17	(5.83)	13,500	OUT
1/21/2005	24.04	(5.96)	13,200	OUT
1/22/2005	25.37	(4.63)	15,700	OUT
1/23/2005	25.51	(4.49)	16,000	OUT
1/24/2005	25.46	(4.54)	15,900	OUT
1/25/2005	23.14	(6.86)	11,700	OUT
1/26/2005	21.27	(8.73)	8,730	OUT
1/27/2005	20.99	(9.01)	8,310	OUT
1/28/2005	20.95	(9.05)	8,250	OUT
1/29/2005	20.99	(9.01)	8,310	OUT
1/30/2005	20.99	(9.01)	8,300	OUT
1/31/2005	21.02	(8.98)	8,360	OUT
<b>Avg or Tot</b>	20.63	(9.37)	8,385	0.00

	Avg	Avg	Avg	Tot
Units	Feet	Feet	Feet	Inches

FS: Flood Stage = 30 feet

Lower Sabine Basin Sampled on 1/12/2005

Gauge Height and Flow from USGS daily mean Gage height and Discharge, respectively

USGS 08028500 Sabine Rv nr Bon Wier, TX

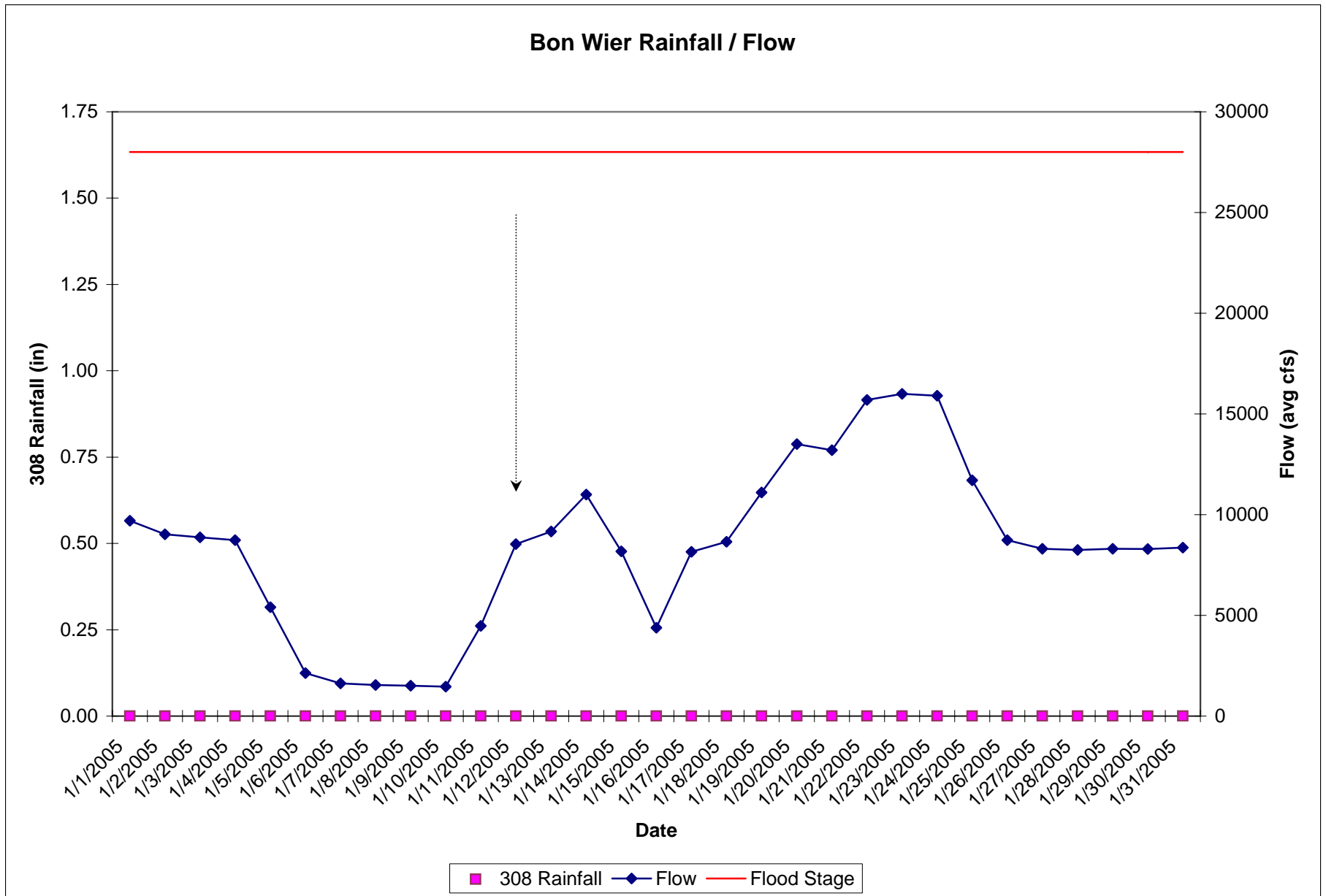
[http://waterdata.usgs.gov/tx/nwis/dv/?site\\_no=08028500&agency\\_cd=USGS](http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08028500&agency_cd=USGS)

Acquired 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

# SABINE RIVER AUTHORITY OF TEXAS

January 2005



Lower Sabine Basin sampled on 1/12/2005

Flood stage flow of 27,300 cfs calculated from flood stage gage height, 30 ft msl. (USGS Web site)

# SABINE RIVER AUTHORITY OF TEXAS

## Ruliff Weather and River Data

January 2005

<b>Date</b>	<b>Gauge Height</b>	<b>GH - FS</b>	<b>Flow cfs</b>	<b>Flow acft</b>	<b>309 Rainfall</b>
1/1/2005	23.96	(0.07)	17,400	34,512	OUT
1/2/2005	23.92	(0.06)	17,000	33,719	OUT
1/3/2005	23.78	(0.14)	15,700	31,140	OUT
1/4/2005	23.55	(0.36)	13,700	27,174	OUT
1/5/2005	23.31	(0.61)	12,200	24,198	OUT
1/6/2005	23.05	(0.82)	10,900	21,620	OUT
1/7/2005	22.33	(1.27)	8,490	16,840	OUT
1/8/2005	20.79	(2.54)	5,500	10,909	OUT
1/9/2005	19.28	(4.28)	3,610	7,160	OUT
1/10/2005	18.55	(5.28)	3,020	5,990	OUT
1/11/2005	18.23	(5.68)	2,790	5,534	OUT
1/12/2005	18.86	(5.84)	3,290	6,526	OUT
1/13/2005	21.04	(3.66)	5,900	11,702	OUT
1/14/2005	22.11	(2.14)	7,890	15,650	OUT
1/15/2005	22.64	(1.70)	9,310	18,466	OUT
1/16/2005	22.97	(1.11)	10,400	20,628	OUT
1/17/2005	22.92	(0.98)	10,300	20,430	OUT
1/18/2005	22.59	(1.30)	9,130	18,109	OUT
1/19/2005	22.49	(1.53)	8,820	17,494	OUT
1/20/2005	22.60	(1.47)	9,160	18,169	OUT
1/21/2005	22.82	(1.30)	9,910	19,656	OUT
1/22/2005	23.07	(1.10)	10,900	21,620	OUT
1/23/2005	23.25	(0.77)	11,900	23,603	OUT
1/24/2005	23.39	(0.65)	12,700	25,190	OUT
1/25/2005	23.52	(0.52)	13,500	26,777	OUT
1/26/2005	23.61	(0.39)	14,200	28,165	OUT
1/27/2005	23.60	(0.38)	14,100	27,967	OUT
1/28/2005	23.44	(0.49)	13,000	25,785	OUT
1/29/2005	23.16	(0.73)	11,400	22,612	OUT
1/30/2005	22.91	(1.01)	10,200	20,231	OUT
1/31/2005	22.82	(1.19)	9,920	19,676	OUT
<b>Avg or Tot</b>	22.41	(1.59)	10,201	627,253	0.00

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

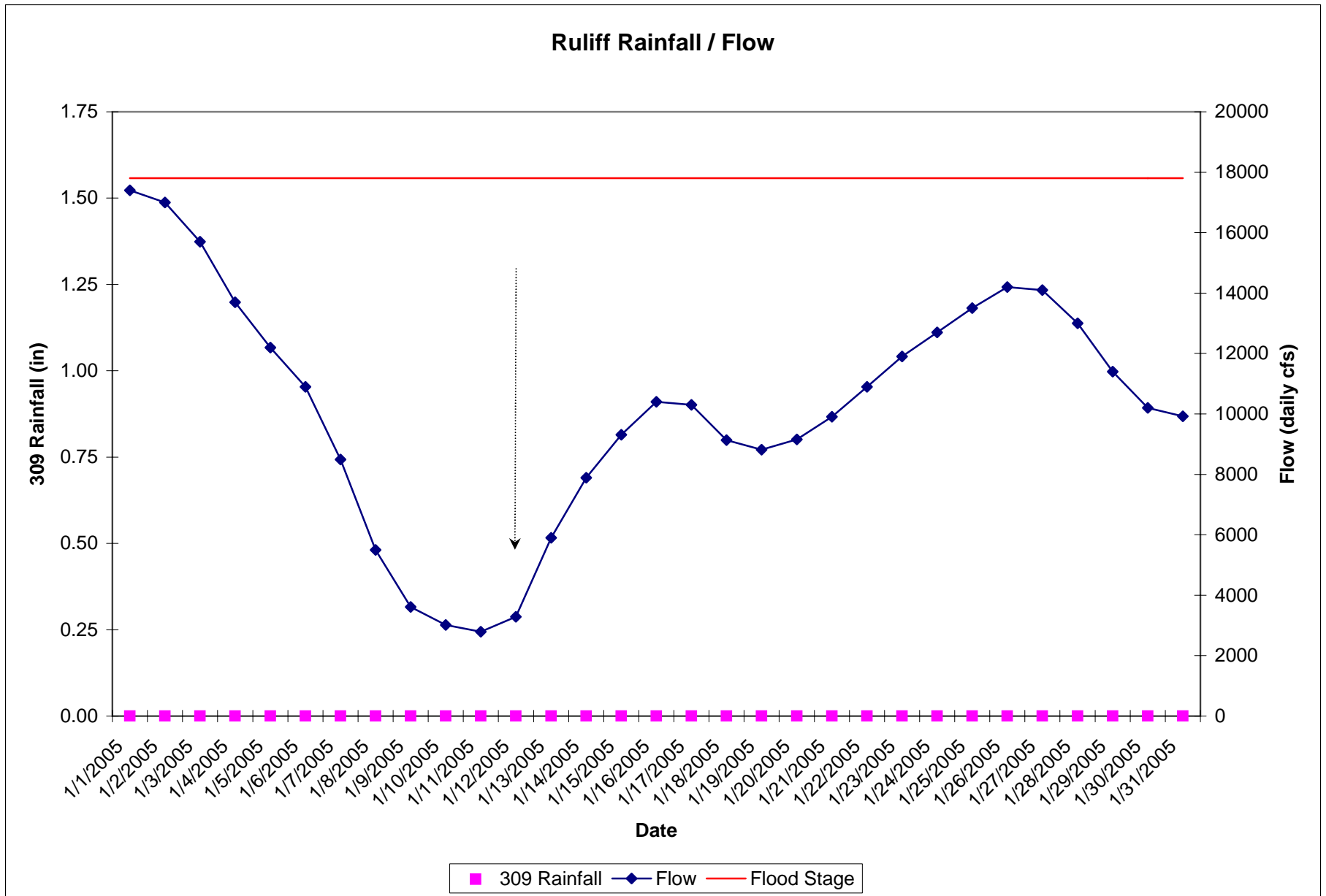
Lower Sabine Basin Sampled on 1/12/2005

Gauge Height and Flow from USGS daily mean Gage height and Discharge, respectively  
 USGS 08030500 Sabine Rv nr Ruliff, TX  
[http://waterdata.usgs.gov/tx/nwis/dv/?site\\_no=08030500&agency\\_cd=USGS](http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08030500&agency_cd=USGS)  
 Acquired 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

# SABINE RIVER AUTHORITY OF TEXAS

January 2005



Lower Sabine Basin sampled on 1/12/2005

Flood stage flow of 17,800 cfs calculated from flood stage gage height, 24 ft msl.

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## FY 2005 Fixed Monitoring Stations

### Tidal Sabine Basin

SW	Segment	Station	Location
1.05	0501	15653 (ICW1)	INTERCOASTAL WATERWAY AT PERRY RIDGE
1.01	0501	15654 (BB1)	BLACK BAYOU IN CAMERON PARISH
1.00	0501	10395 (SR1)	SABINE RIVER 12.00 KM UPSTREAM OF IH 10
1.00	0501	10394 (SRT2)	SABINE RIVER AT IH 10
1.00	0501	18056 (SRT1C)	OLD HWY 90
1.00	0501	18055 (SRT1B)	SABINE RIVER AT CHANNEL LIGHT 20
1.00	0501	10393 (SRT1A)	SABINE RIVER AT CHANNEL LIGHT 13
1.00	0501	10391 (SRT1)	SABINE RIVER AT CHANNEL CAN 3

**SABINE RIVER AUTHORITY OF TEXAS**

Tidal Report

January 2005

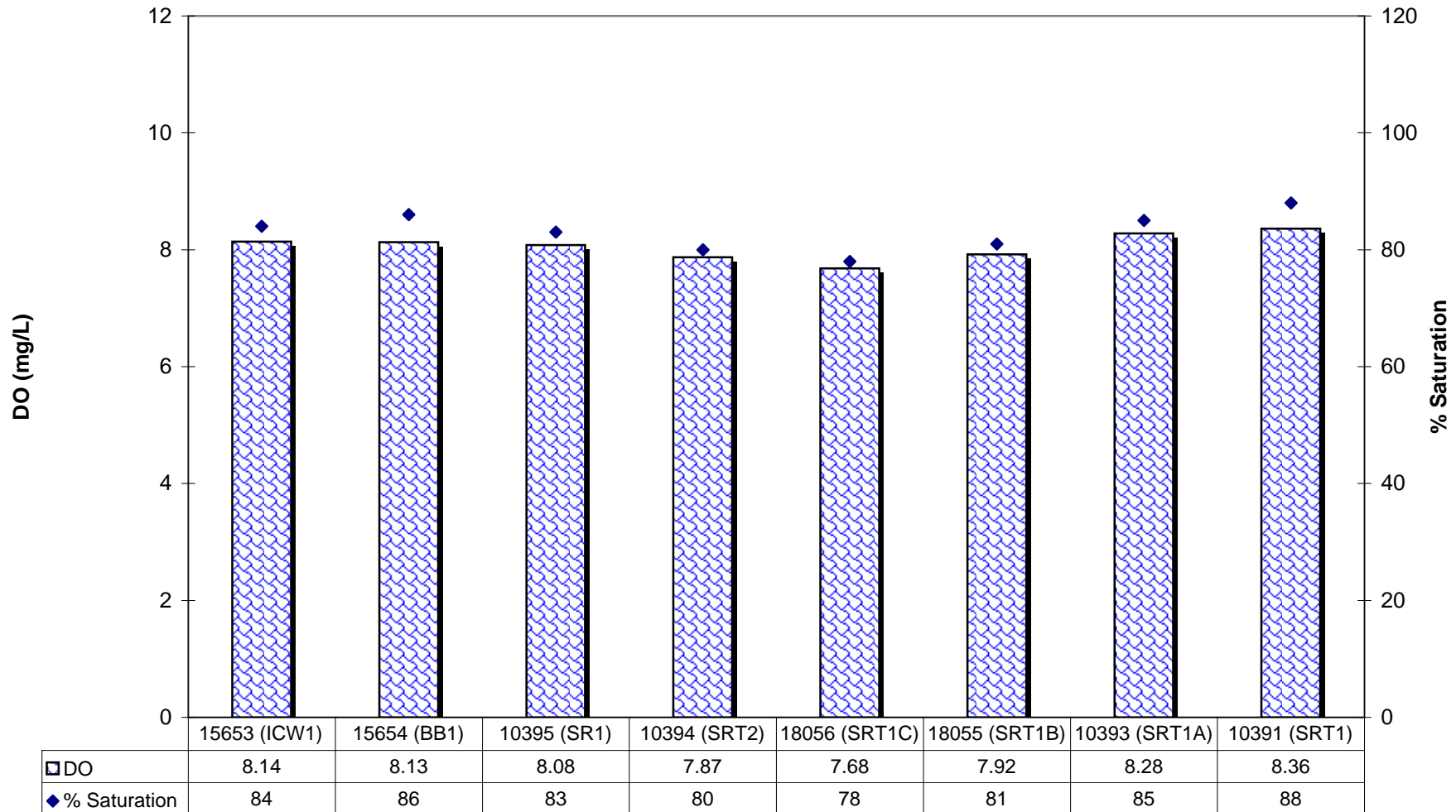
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	<i>Enterococcus</i> mpn/100ml 31701	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900
1/13/05 10:25 AM	1.05	15653 (ICW1)	16.2	6.98	8.14	84	1774	1	0.58	9.02	21	35	*	< 0.02	0.1	< 0.04	8	31	180
1/13/05 11:00 AM	1.01	15654 (BB1)	17.8	7.19	8.13	86	3174	2	0.34	16.9	365	155	*	< 0.02	0.1	< 0.04	6	31	312
1/13/05 9:32 AM	1.00	10395 (SR1)	16.8	7.34	8.08	83	160	*	0.37	18.1	108	*	< 0.02	0.1	< 0.04	8	32	40	
1/13/05 9:55 AM	1.00	10394 (SRT2)	16	6.81	7.87	80	148	< 1	0.44	14.8	41	7	*	< 0.02	0.1	< 0.04	7	30	40
1/13/05 10:07 AM	1.00	18056 (SRT1C)	16.1	6.82	7.68	78	161	< 1	0.43	8.92	40	15	*	< 0.02	0.1	0.04	8	30	160
1/13/05 10:37 AM	1.00	18055 (SRT1B)	16	7.02	7.92	81	1016	< 1	0.58	9.76	46	37	*	< 0.02	0.12	< 0.04	8	29	120
1/13/05 10:45 AM	1.00	10393 (SRT1A)	16.2	7.13	8.28	85	1660	< 1	0.6	14.6	68	26	*	< 0.02	0.2	< 0.04	8	28	36
1/13/05 11:10 AM	1.00	10391 (SRT1)	17.4	7.19	8.36	88	3585	2	*	13.2	61	56	*	< 0.02	0.14	< 0.04	6	33	356

\*: Not sampled on this run

# SABINE RIVER AUTHORITY OF TEXAS

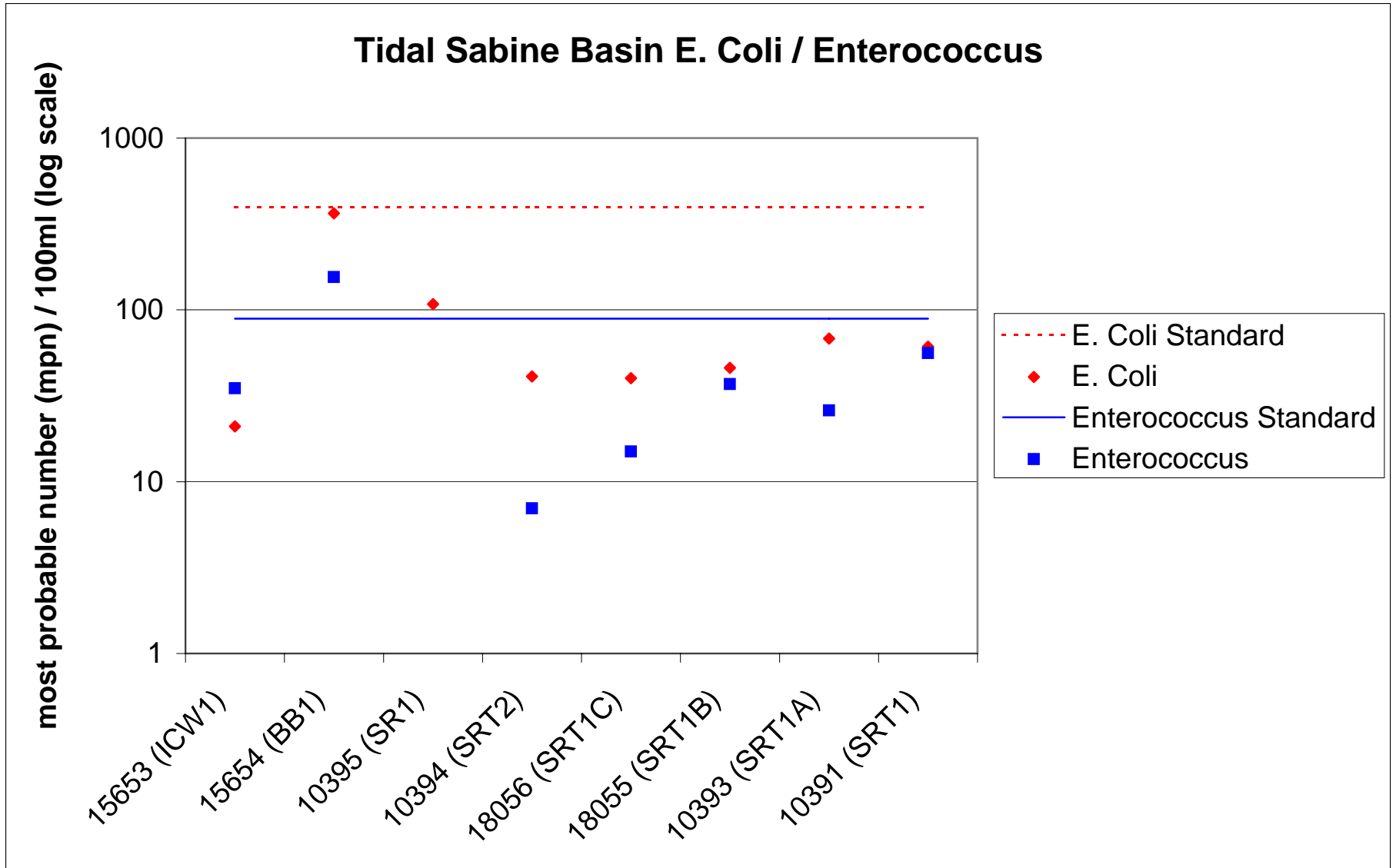
January 2005

## Tidal Sabine Basin DO / % Saturation



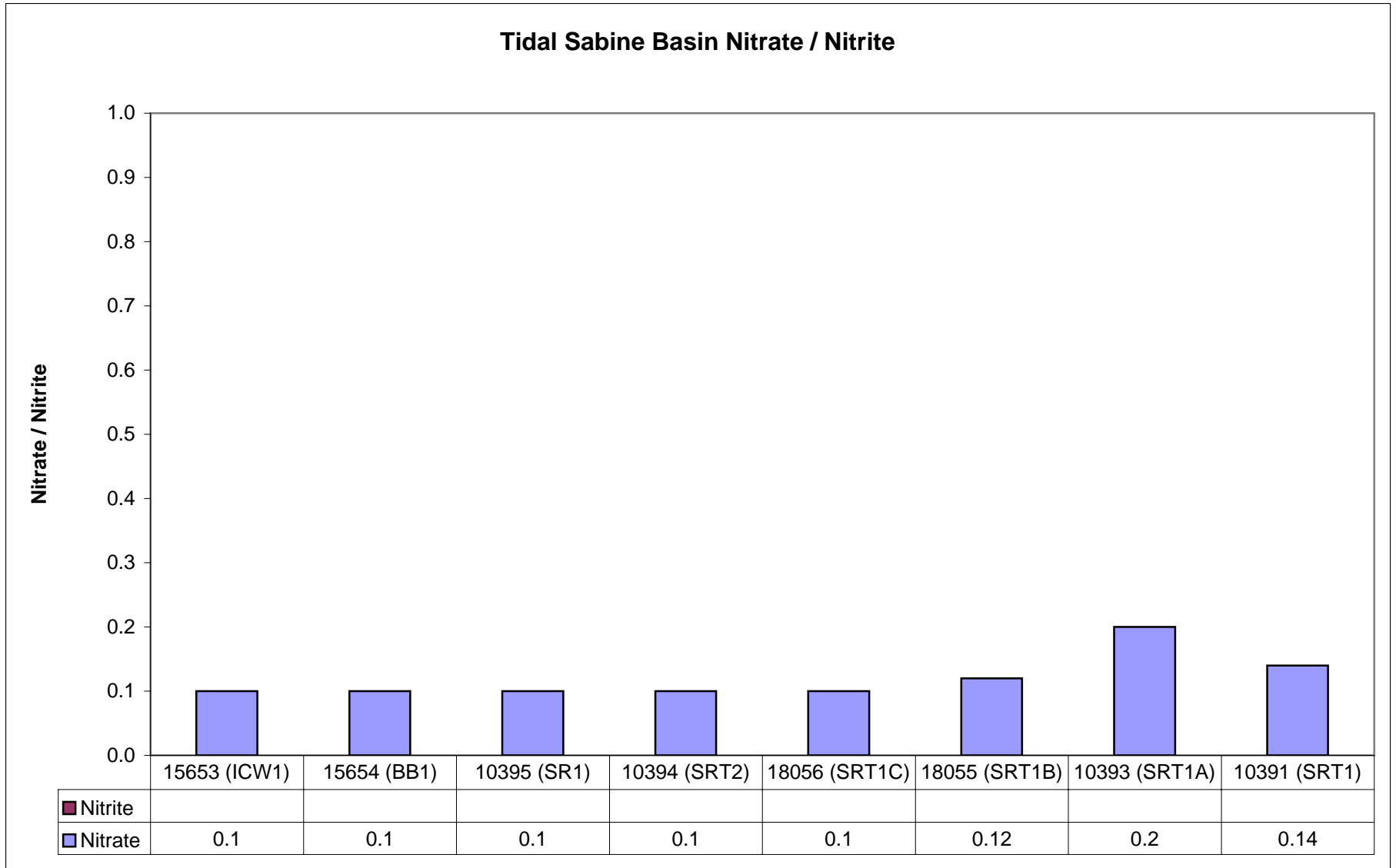
# SABINE RIVER AUTHORITY OF TEXAS

January 2005



# SABINE RIVER AUTHORITY OF TEXAS

January 2005



# SABINE RIVER AUTHORITY OF TEXAS

## Tidal Profiles

January 2005

Date	SW ID	Station	Depth Meters	Temperature	pH	DO	%	Conductivity	Salinity
				°C 00010	Units 00400	mg/L 00300	Saturation 00301	µS/cm 00094	ppt 00480
1/13/05 10:25 AM	1.05	15653 (ICW1)	0.3	16.2	6.98	8.14	84	1774	1
			3	16.2	7	8.19	84	1775	1
			6	16.2	7.08	8.2	84	1778	1
1/13/05 11:00 AM	1.01	15654 (BB1)	0.3	17.8	7.19	8.13	86	3174	2
			3.4	17.8	7.19	8.06	86	3164	2
1/13/05 9:55 AM	1.00	10394 (SRT2)	0.3	16	6.81	7.87	80	148	< 1
			4	16	6.84	7.82	79	147	< 1
			7.7	16	6.92	7.82	79	147	< 1
1/13/05 10:07 AM	1.00	18056 (SRT1C)	0.3	16.1	6.82	7.68	78	161	< 1
			3.5	16	6.85	7.62	77	170	< 1
			7	15.5	6.87	7.16	72	1639	< 1
			11.2	15.1	6.67	7.01	71	4220	2
1/13/05 10:37 AM	1.00	18055 (SRT1B)	0.3	16	7.02	7.92	81	1016	< 1
			6	16.2	7.11	8	82	1668	1
			11.2	15.8	6.91	7.33	76	5294	3
1/13/05 10:45 AM	1.00	10393 (SRT1A)	0.3	16.2	7.13	8.28	85	1660	< 1
			3	16.8	7.09	8.16	85	2812	2
			6.5	16.9	7.07	8.31	87	3194	2
1/13/05 11:10 AM	1.00	10391 (SRT1)	0.3	17.4	7.19	8.36	88	3585	2
			5	17.5	7.24	8.37	89	4340	2
			10.6	16.6	7.15	7.58	81	7474	4

# SABINE RIVER AUTHORITY OF TEXAS

## Orange Weather and River Data

January 2005

<b>Date</b>	<b>310 (Orange) Rainfall</b>	<b>Gauge Height</b>	<b>GH - FS</b>	<b>Max Temp</b>	<b>Min Temp</b>	<b>Cur Temp</b>	<b>293 (GCD) Rainfall</b>
1/1/2005	OUT	OUT	OUT	74	61	64	0.30
1/2/2005	OUT	OUT	OUT	74	62	66	0.03
1/3/2005	OUT	OUT	OUT	73	65	66	0.00
1/4/2005	OUT	OUT	OUT	77	63	66	0.00
1/5/2005	OUT	OUT	OUT	73	65	67	0.00
1/6/2005	OUT	OUT	OUT	78	47	47	0.05
1/7/2005	OUT	OUT	OUT	49	44	48	0.00
1/8/2005	OUT	OUT	OUT	60	44	44	0.07
1/9/2005	OUT	OUT	OUT	65	42	43	0.00
1/10/2005	OUT	OUT	OUT	72	43	61	0.00
1/11/2005	OUT	OUT	OUT	73	61	66	0.02
1/12/2005	OUT	OUT	OUT	76	63	64	0.00
1/13/2005	OUT	OUT	OUT	76	55	56	0.45
1/14/2005	OUT	OUT	OUT	56	37	38	0.00
1/15/2005	OUT	OUT	OUT	59	35	35	0.00
1/16/2005	OUT	OUT	OUT	55	35	36	0.00
1/17/2005	OUT	OUT	OUT	57	30	30	0.00
1/18/2005	OUT	OUT	OUT	53	30	30	0.00
1/19/2005	OUT	OUT	OUT	50	30	37	0.00
1/20/2005	OUT	OUT	OUT	66	37	55	0.00
1/21/2005	OUT	OUT	OUT	72	50	53	0.00
1/22/2005	OUT	OUT	OUT	76	53	63	0.00
1/23/2005	OUT	OUT	OUT	73	32	32	0.00
1/24/2005	OUT	OUT	OUT	46	29	30	0.00
1/25/2005	OUT	OUT	OUT	57	30	41	0.00
1/26/2005	OUT	OUT	OUT	72	41	64	0.12
1/27/2005	OUT	OUT	OUT	79	56	56	0.00
1/28/2005	OUT	OUT	OUT	55	43	45	0.06
1/29/2005	OUT	OUT	OUT	50	44	46	0.42
1/30/2005	OUT	OUT	OUT	54	44	44	0.00
1/31/2005	OUT	OUT	OUT	56	44	47	1.02
<b>Avg or Tot</b>	OUT	OUT	OUT	65	46	50	2.54

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

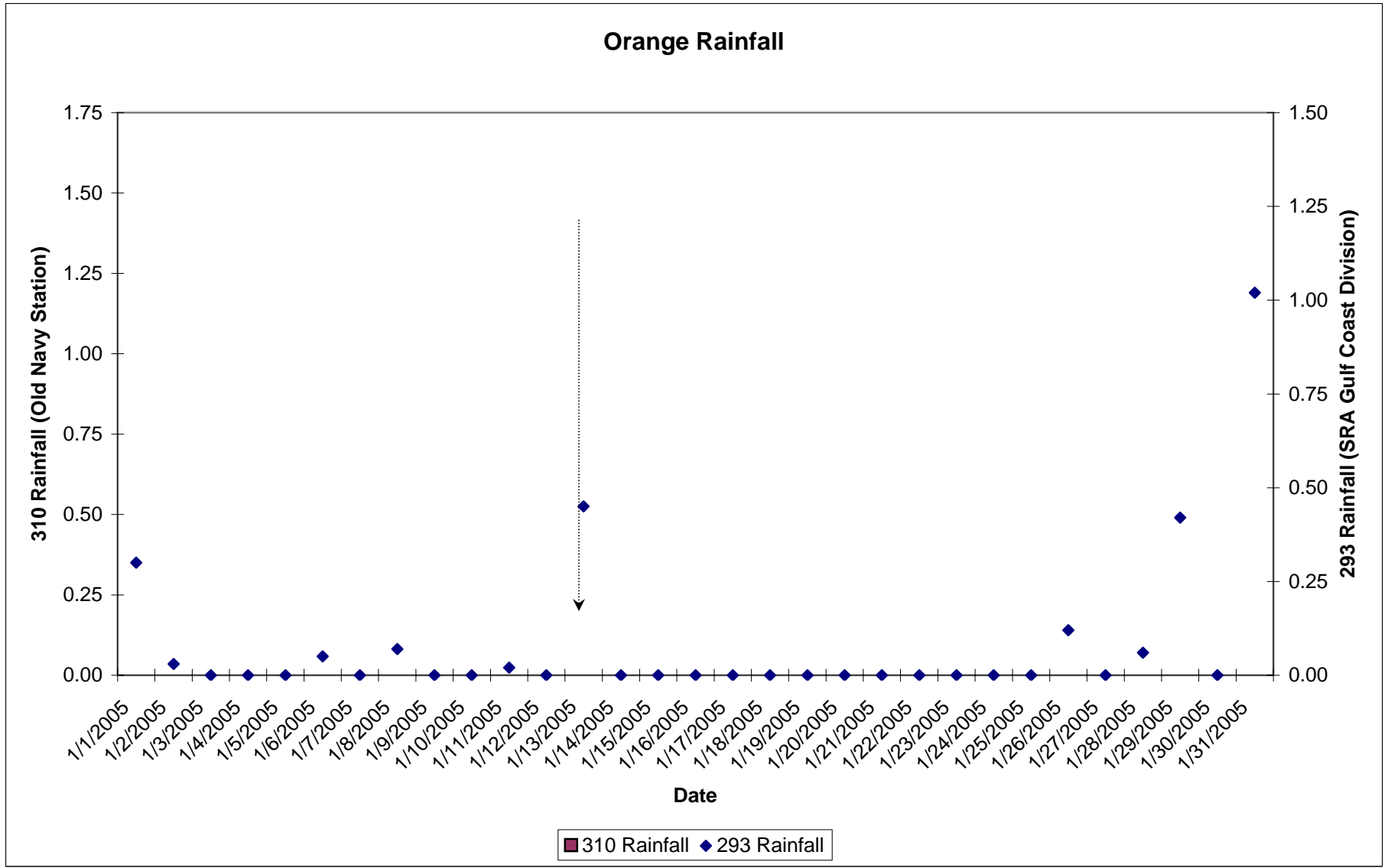
FS: Flood Stage = 4 Feet

OUT: Gage Out

Tidal Sabine Basin Sampled on 1/13/2005

# SABINE RIVER AUTHORITY OF TEXAS

January 2005



Tidal Sabine Basin Sampled on 1/13/2005