



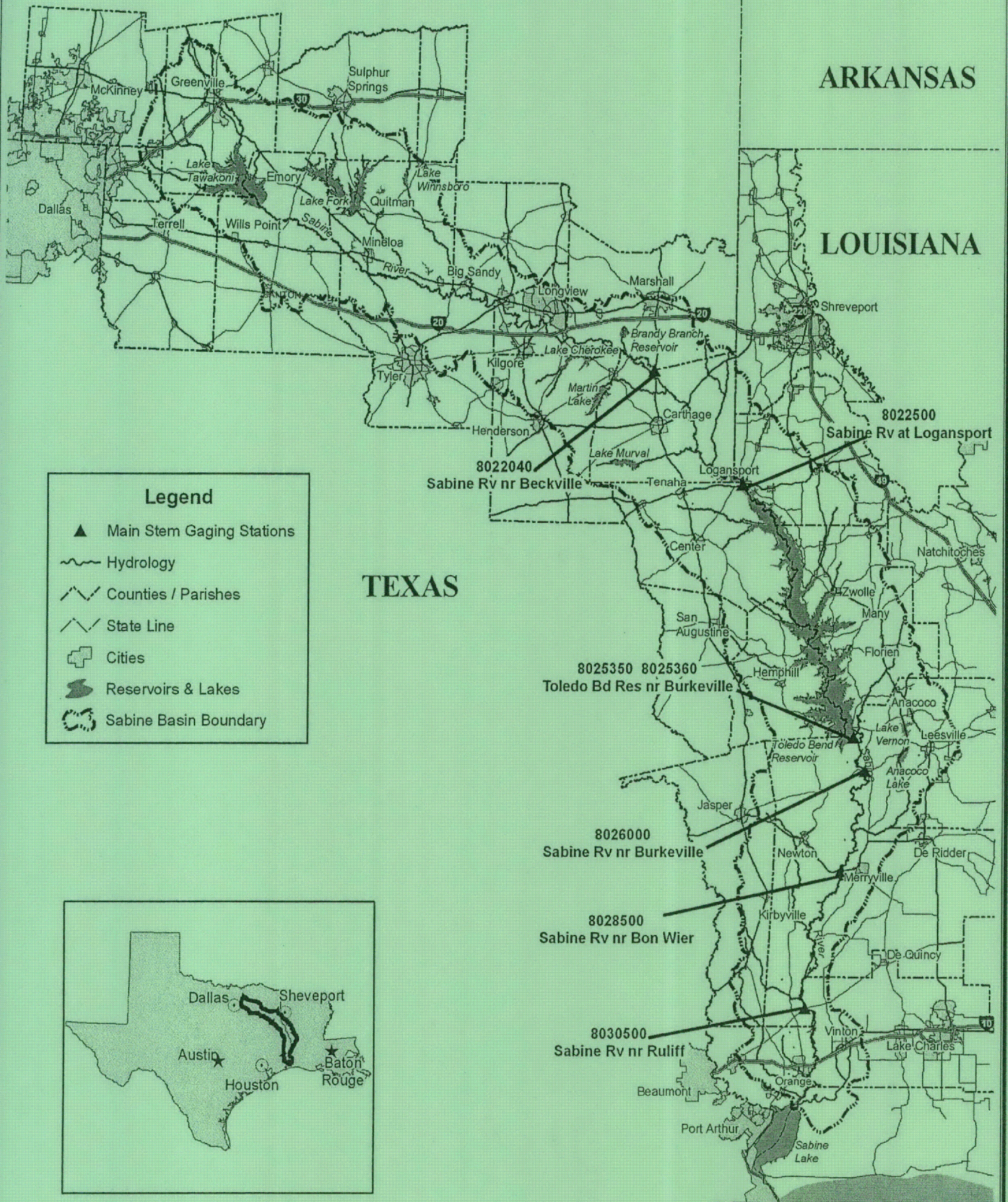
2014

SIXTIETH

ANNUAL REPORT

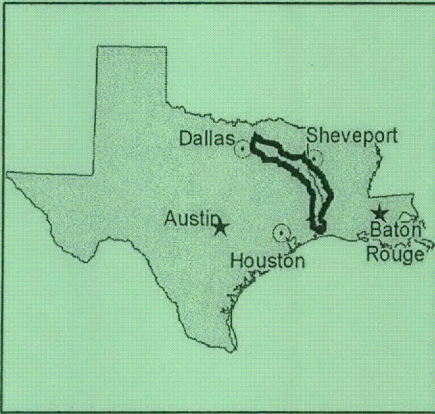
**SABINE RIVER COMPACT
ADMINISTRATION
LOUISIANA AND TEXAS**

Sabine River Basin

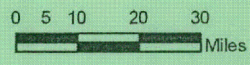


Legend

- ▲ Main Stem Gaging Stations
- ~ Hydrology
- ▭ Counties / Parishes
- ▭ State Line
- ⊕ Cities
- ▭ Reservoirs & Lakes
- ⊕ Sabine Basin Boundary



Road Coverage from TIGER Files
 Hydrology from various sources
 Cities & Counties from LA-GIS, TNIRIS, TIGER
 Projection: UTM Zone 15, Datum: NAD 83
 Map Produced by SRA-Tx for the Sabine River Compact
 May 2006



GULF OF MEXICO



SIXTIETH ANNUAL REPORT

SABINE RIVER COMPACT ADMINISTRATION

FOR THE YEAR 2014

To the President of the United States

and

The Governors of Louisiana and Texas



The Administration

Vernon B. Sauer

Federal Representative and Chairman

George D. Brandon, DVM and Bobby E. Williams
for Louisiana

Michael H. Lewis and Jerry Gipson
for Texas

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Annual Report of
SABINE RIVER COMPACT ADMINISTRATION
2014

Report Year: October 1, 2013 through September 30, 2014

TO: The President of the United States
Governors of the States of Louisiana and Texas

Pursuant to Article VII of the Sabine River Compact, the Administration created by the terms of this Compact makes the following report for the year ending September 30, 2014.

1. Members of the Administration

Members of the Administration appointed in accordance with provisions of the Sabine River Compact as amended by Public Law 102-575, October 30, 1992 are:

United States Representative:	Vernon B. Sauer (thru 4/18/14)
Louisiana Representatives:	George D. Brandon and Bobby E. Williams
Texas Representatives:	Jerry Gipson and Michael "Mike" H. Lewis

2. Officers of the Administration

Chairman:	Vernon B. Sauer, Hartwell, GA 30643 (thru 4/18/14)
Vice Chairman:	George D. Brandon, Leesville, LA 71446
Treasurer:	Jerry Gipson (from 10/25/13)
Secretary:	Kellie Ferguson, 15091 TX Hwy., Many, LA 71449

3. Standing Committees

Budget Committee:

USGS LA Representative:	Ben McGee, Chairman, Ruston, LA
USGS TX Representative:	Mike Turco, Conroe, TX (thru 6/6/14) Amy Beussink, The Woodlands, TX (from 6/6/14)
LA Sabine River Authority Representative:	James W. "Jim" Pratt, Many, LA
TX Commission on Environmental Quality Representative:	Grant Gibson, Austin, TX (thru 6/6/14) Suzy Valentine, Austin, TX (from 6/6/14)

Engineering Committee:

James W. Pratt, Chairman, Many, LA
Vacant, Vice Chairman,
George Arcement, Baton Rouge, LA
Amy Beussink, The Woodlands, TX (from 6/6/14)
Jim Brown, Orange, TX
Danny "Butch" Choate, Orange, TX
Jerry Clark, Orange, TX
Bob Corby, Fort Worth, TX
David Daigle, Lake Charles, LA
Jeff East, Conroe, TX
Kellie Ferguson, Many, LA
Max Forbes, Baton Rouge, LA
Jim Graves, Orange, TX (thru 6/6/14)
Bill Hughes, Orange, TX
Heather Hunziker, Austin, TX
Bob Joseph, Austin, TX
Christopher Knotts, Baton Rouge, LA (from 6/6/14)
Ben McGee, Ruston, LA
David Montagne, Orange, TX
Jason Placke, Baton Rouge, LA
Barton Rumsey, Many, LA
Ryan Seidemann, Baton Rouge, LA (from 6/6/14)
Deborah Stagner, Orange, TX
Mike Turco, Conroe, TX (thru 6/6/14)
Suzy Valentine, Austin, TX
Travis Williams, Orange, TX
Chief, State Programs Section; USEPA, Dallas, TX
Meteorologist in Charge, NWS, Lake Charles, LA

Engineering Sub-Committees:

Diversion: Jim Brown
Bill Hughes
Barton Rumsey
Gaging: George Arcement
Jim Brown
Jeff East
Bill Hughes
Ben McGee
Mike Turco (thru 6/6/14)
Amy Beussink (from 6/6/14)
Water Quality: Jim Brown
Max Forbes

Legal: Jim I. Graves, Chairman, Orange, TX (thru 6/6/14)
Heather Hunziker, Austin, TX
Jason Placke, Baton Rouge, LA
Ryan Seidemann, Baton Rouge, LA (from 6/6/14)

The Chairman, Representative of the United States, is ex-officio member of all standing committees.

4. Meetings

Meetings were held during the report year as follows:
October 25, 2013– Crown Plaza Hotel, San Antonio, TX
June 6, 2014 – Isle of Capri, Lake Charles, LA

5. Fiscal

(a) In accordance with Article VII:K of the Compact, the expenses incident to the administration of the Compact are paid equally by the States of Louisiana and Texas. A summary of receipts and disbursements for fiscal year ending August 31, 2014 is included in Appendix A.

(b) On June 6, 2014, the Administration approved a budget for the 2014-2015 fiscal year in accordance with provisions of the By-Laws of the Administration (Article VII:3) as follows:

Stream Gaging Program	\$48,980.00
Quality of Water Program	16,980.00
Administrative Expenses	
Secretary's Office	4,400.00
Treasurer's Office	1,800.00
Auditing Fee	2,500.00
Treasurer's Bond	50.00
Meeting Expenses	<u>950.00</u>
Total Budget	\$75,660.00

Note: The total cost of the stream gaging and quality of water programs are to be funded as follows: \$32,980 with USGS funds; and \$32,980 with SRCA funds, one-half from each state. The total cost of the administrative expenses, \$9,700, is funded by SRCA, one-half from each State. Additionally, National Stream Information Program (NSIP) funds in the amount of \$83,400 (\$21,800 from Louisiana and \$61,600 from Texas) are contributed to the stream gaging program.

(c) Pursuant to provisions of the Compact (Article VII:K) and of the By-Laws of the Administration (Article VII:4), the receipts and disbursements of the Administration have been audited for the period September 1, 2013 through August 31, 2014. The report of this audit is attached as Appendix A.

6. General Activities

The Administration continued its cooperative program with State and Federal agencies to collect stream flow and quality of water data, and to report diversions as provided by Article VII: Paragraph G of the Compact.

For the fiscal year ending August 31, 2014, the Administration and the Water Resources Division, U.S. Geological Survey provided funds for the cost of operating the basic-records part of the program, consisting of the full support for nine continuous-record discharge stations; one reservoir stage and contents station; one stage station; and water quality analyses for two sites. Details and Water Year records for these stations is contained in Appendix B. The discharge station on the Sabine River near Beckville is used for the determination of Stateline flow as defined by Article VII: Paragraph G of the Compact. Funds for the operation of this station are provided by the Texas Commission on Environmental Quality and the U.S. Geological Survey. This Article also requires findings as to the diversions made in the Stateline reach. Tabulated below is a summary of the diversions for the reporting year, October 1, 2013 - September 30, 2014.

DIVERSIONS IN ACRE-FEET

Purpose	State	Sabine River Below Toledo Bend Dam	Tributaries Below Toledo Bend Dam	Toledo Bend Reservoir	Tributaries flowing into Toledo Bend Reser. Below State Line
Irrigation	Louisiana	1,074.48	0	0	0
	Texas	1,066.38	0	0	0
Industrial	Louisiana	60,228.65	0	22,361.15	92.95
	Texas	52,486.94	0	3,314.04	0
Mining	Louisiana	0	0	0	0
	Texas	0	0	215.28	0
Municipal	Louisiana	0	0	3,558.15	0
	Texas	84.67	0	946.84	60.31
Total	Louisiana	61,303.13	0	25,919.30	92.95
	Texas	53,637.99	0	4,476.16	60.31
Total Diversion For Louisiana					87,315.38
Total Diversion For Texas					58,174.46
Grand Total					

The municipal diversion for Louisiana from the Reservoir includes water used by Logansport as riparian water, royalty free. The Louisiana industrial diversion from Bayou San Miguel is riparian water as approved by the SRCA, royalty free.

The gaging stations designated by the Administration are listed in Section 9 and data relative to these stations, as well as other stations partially funded by the Administration, is in Appendix B.

7. Hydrologic Conditions

The Toledo Bend Project Alert System provides real time data to include rainfall, Reservoir elevation, and River stages to be used as information in Reservoir operations.

Included as Appendix "F" is an overview map of the area showing the approximate location of the stations with an attached sheet showing the various Station ID Numbers, the Station names, and a more exact location for each. This Appendix includes a tabulation of the total monthly rainfall for each station for the water year 13-14 and the departure from the long term average for the 10 year period of WY 97-98 through WY 06-07 which was included in Appendix "F" of the 2008 Annual Report. For fast references, graphs showing the total monthly rainfall for WY 13-14 are also included.

A narrative summary of this information is utilized herein in reporting the hydrologic conditions experienced during the reporting water year and for comparing these conditions with the previous water year thereby giving the reader a general idea of the most recent and previous hydrologic conditions of the area.

For the 16 stations, 65% of the monthly rainfall totals were below the long term average compared to 71% for WY 12-13 with 35% of the monthly rainfall totals being above the long term average compared to 29% for WY 12-13. 81% of the annual rainfall totals were below the long term average compared to 94% for WY 12-13. Compared to the WY 97-98 through WY 06-07 average, the WY 13-14 totals were 85% of the average and WY 12-13 totals were 73% of the average. The WY 13-14 totals were 116% of the WY 12-13 totals. For comparison purposes, a plotting of the Reservoir elevations for the last five CY, 2010 through 2014, is included as the last sheet of Appendix F.

For the WY, there was one monthly total exceeding 10 inches; 11.02 inches at Bronson in May.

Noteworthy monthly totals on the low side were 34 of the 192 monthly totals (18%) being less than 1 inch with 30 being less than one-half inch. The northeastern portion of the basin had the fewest monthly totals below 1 inch. Five stations reported zero rainfall for the month; Airport, Keatchie, Logansport, and Anderson for August and Highway 59 for September.

Runoff for the basin was 69% of the average (WY 1961-2014) as measured at the Ruliff gaging station. Tributary gaging stations near Newton, TX and Rosepine, LA had annual runoffs of 65% of the average and 84% of the average, respectively, of total annual runoff. The peak discharge for various stations was 8,880 cubic feet per second (CFS) on April 8 at Beckville; 15,900 CFS on November 29 at Burkeville; 7,880 CFS on May 15 at Bayou Anacoco near Rosepine, LA; 17,100 CFS on November 29 at Bon Wier; 3,140 CFS on November 1 at Big Cow Creek near Newton, TX; and 16,900 CFS at Ruliff on November 6 and December 4-6.

The lawsuit filed against Sabine River Authority, State of Louisiana (SRALA) by downstream residents alleging damages from the March, 2001 spillway releases is still ongoing.

The spillway gates at Toledo Bend Dam were not opened during the year to pass flood water in accordance with the "Guide for Spillway Gate Operation, Revised June 27, 2001".

According to Toledo Bend Project Joint Operation records the maximum elevation of the reservoir for WY 2013-2014 was 171.75 on July 24, 2014. The minimum elevation for the WY was 167.32 on October 30, 2013.

According to Toledo Bend Project Joint Operation records, releases from the Reservoir for the water year totaled 2,035,220 acre feet compared to the U.S. Geological Survey total of the means of 2,044,370 acre feet. A monthly summary of contents and key elevations of the Reservoir as reflected by U.S. Geological Survey records is shown in Appendix B.

The lowest daily mean flow at Beckville was 81.0 CFS on August 30 and the lowest seven-day minimum mean was 94.0 CFS on August 25. The daily mean for the discharge at Beckville was not below 21.556 CFS (the flow required to produce 36 CFS at the Stateline) for any single day during the water year.

Records for the official gaging stations, as well as other stations partially funded by the Administration, are summarized in Appendix B.

8. Hydrologic Stations

Quantity and quality-of-water data are collected at many sites in and immediately adjacent to the basin by State and Federal agencies. The information aids in the development and utilization of the water resources of the Basin. The type of data collected is not the same for all agencies and it is impractical to publish the data in this report. However, to assist a user, the sites, the type of data collected, and the address of the collecting agency are shown below. The agency will furnish the information on request.

At gaging stations, a continuous gage-height record and daily discharge are available; at reservoir stations, records of elevation and contents are available; and, at rainfall stations, daily and hourly precipitation data are available. At quality-of-water stations, chemical, biological, and physical characteristics of water are determined at different intervals and for different constituents.

I. Gaging stations operated by the U.S. Geological Survey, 3535 S. Sherwood Forest Blvd., Suite 120, Baton Rouge, Louisiana 70816.

1. Bayou Castor near Funston, LA
2. Bayou Grand Cane near Stanley, LA
3. Bayou San Patricio near Benson, LA

4. Bayou Toro near Toro, LA
 5. Bayou Anacoco near Rosepine, LA
- II. Gaging stations operated by the U.S. Geological Survey, 8027 Exchange Drive, Austin, Texas 78754. All active stations are DCP equipped.
1. Cowleech Fork Sabine River at Greenville, TX
 2. South Fork Sabine River near Quinlan, TX
 3. Sabine River near Wills Point, TX
 4. Sabine River near Mineola, TX
 5. Burke Creek near Yantis, TX (1979-89)
 6. Lake Fork Creek near Quitman, TX
 7. Big Sandy Creek near Big Sandy, TX
 8. Sabine River near Gladewater, TX
 9. Sabine River near Beckville, TX
 10. Martin Creek near Tatum, TX (1974-96)
 11. Murvaul Bayou near Gary, TX (1958-83)
 12. Sabine River at Toledo Bend near Burkeville, TX
 13. Sabine River near Burkeville, TX
 14. Sabine River near Bon Wier, TX
 15. Big Cow Creek near Newton, TX
 16. Cypress Creek near Buna, TX (1952-83)
 17. Sabine River near Ruliff, TX
 18. Cow Bayou near Mauriceville, TX (1952-86)
- III. Gage-height station operated by the U.S. Geological Survey, 3535 S. Sherwood Forest Blvd., Suite 120, Baton Rouge, Louisiana 70816.
1. Bayou Toro near Toledo Bend near Toro, LA.
- IV. Reservoir stations operated by the U.S. Geological Survey, 8027 Exchange Drive, Austin, Texas 78754. All active stations are DCP equipped.
1. Lake Tawakoni near Wills Point, TX
 2. Lake Winnsboro near Winnsboro, TX (1962-86)
 3. Lake Fork Reservoir near Quitman, TX
 4. Lake Cherokee near Longview, TX (1951-83)
 5. Martin Lake near Tatum, TX
 6. Sabine River at Logansport, LA
 7. Toledo Bend Reservoir near Burkeville, LA
- V. Quality-of-water stations operated by the Louisiana Department of Environmental Quality (LDEQ), P.O. Box 82215, Baton Rouge, LA 70884-2215; the Sabine River Authority of Texas (SRA-TX), P. O. Box 579, Orange, TX 77630-0579; Stream

Monitoring Unit, Texas Commission on Environmental Quality (TCEQ), P. O. Box 13087, Austin, TX 78711; the U.S. Geological Survey in Louisiana (USGS-LA); and the U.S. Geological Survey in Texas (USGS-TX), addresses shown above:

1. Lake Tawakoni headwaters, Cowleech Fork of Sabine River at U.S. 69 northwest of Lone Oak, TX, (SRA-TX)
2. Lake Tawakoni in upper lake, Cowleech Arm, near Wind Point Park, TX (SRA-TX)
3. Lake Tawakoni headwaters, Caddo Creek near Quinlan, TX at TX 34 (SRA-TX)
4. Lake Tawakoni in Caddo Inlet near Caddo Jake Reach (SRA-TX)
5. Lake Tawakoni at midlake at FM 35 near Quinlan, TX (SRA-TX)
6. South Fork of Sabine River at TX 34 (SRA-TX)
7. Lake Tawakoni in Kitsee Inlet near Quinlan, TX (SRA-TX)
8. Bull Creek at confluence with Oak Cove of Lake Tawakoni (SRA-TX)
9. Lake Tawakoni near Wills Point, TX (SRA-TX)
10. Sabine River near Wills Point, TX (SRA-TX)
11. Sabine River near Mineola, TX (USGS-TX, SRA-TX) (1968-72, 1973-96)
12. Lake Fork Creek at TX 19 near Emory, TX (SRA-TX)
13. Burke Creek at FM 514 near Yantis, TX (SRA-TX)
14. Lake Fork Reservoir at FM 515 near Alba, TX (SRA-TX)
15. Lake Fork Reservoir near Dallas Water Intake (SRA-TX)
16. Lake Fork Reservoir, Little Caney Arm at pipeline crossing (SRA-TX)
17. Caney Creek at FM 515 near Yantis, TX (SRA-TX)
18. Lake Fork Reservoir near Quitman, TX (SRA-TX, USGS-TX) (1961-86)
19. Lake Fork Creek just below spillway at TX 182 (SRA-TX)
20. Lake Fork Creek near Mineola, TX (SRA-TX)
21. Sabine River near Hawkins, TX (SRA-TX)
22. Big Sandy Creek near Holly Lake Ranch at FM 2896 (SRA-TX)
23. Big Sandy Creek north of Hawkins at FM 1795 (SRA-TX)
24. Big Sandy Creek near Big Sandy, TX (USGS-TX, SRA-TX) (1985-86)
25. Lake Cherokee near Longview, TX (USGS-TX) (1969-83)
26. Sabine River near Beckville, TX (USGS-TX) (1962-98)
27. Martin Lake near Tatum, TX (USGS-TX) (1939-45)
28. Sabine River near Deadwood, TX (SRA-TX)
29. Sabine River near Logansport, LA (LDEQ, TCEQ, USGS, SRA-TX) (1939-45)
30. Bayou Castor near Logansport, LA (USGS-LA)
31. Tenaha Creek south of Campiti, TX (TCEQ)
32. Toledo Bend Reservoir, Tenaha arm near Center, TX (SRA-TX)
33. Toledo Bend Reservoir near Milam, TX (SRA-TX)
34. Toledo Bend Reservoir near Huxley Water Plant Intake (SRA-TX)
35. Toledo Bend Reservoir, Sunshine Bay near Milam, TX (SRA-TX)
36. Toledo Bend in Six Mile Boat Lane at US 87 Bridge (SRA-TX)
37. Toledo Bend Reservoir at Toledo Bend Dam, TX (SRA-TX)
38. Sabine River below spillway of Toledo Bend Reservoir, TX (SRA-TX)
39. Sabine River at Toledo Bend Dam near Burkeville, TX (USGS-TX) (1967-86)
40. Sabine River near Burkeville, TX (SRA-TX, USGS-TX) (1968-72)

41. Bayou Anacoco near Knight, LA (USGS-LA)
42. Sabine River near Bon Weir, TX (LDEQ, TCEQ, USGS-TX, SRA-TX) (1969-85)
43. Sabine River near Ruliff, TX (USGS-TX, SRA-TX) (1945, 1947-98)
44. Sabine River at IH-10 at Orange, TX (LDEQ, TCEQ)
45. Adams Bayou at FM 1006 near Orange, TX (TCEQ)
46. Adams Bayou at IH-10 at Orange, TX (TCEQ)
47. Sabine River at Channel Marker 3 below Cow Bayou, TX (TCEQ)
48. Cow Bayou at FM 1442 east of Bridge City, TX (TCEQ)

VI. Rainfall stations operated by the National Oceanic and Atmospheric Administration - National Weather Service. Request data from nearby Weather Service Office or from National Climatic Center, Asheville, N.C. 28801.

Bon Wier, TX	Greenville, TX	Logansport, LA	Orange, TX
Canton, TX	Harleton, TX	Longview, TX	Terrell, TX
Carthage, TX	Hawkins, TX	Many, LA	Tyler, TX
Center, TX	Hemphill, TX	Marshall, TX	Wills Point, TX
DeRidder, LA	Lake Charles, LA	McKinney, TX	Winnsboro, TX
Emory, TX	Leesville, LA	Mineola, TX	Wolfe City, TX
Gilmer, TX			

Daily forecasts are made by the National Weather Service at 9 sites on the Sabine River and at 3 reservoir sites; flood forecasts are made at 4 additional points. The information is available from newspapers in the area.

9. Official Gaging Stations

The Administration has designated official gaging stations needed to perform its duties as stated by Article VII:G of the Compact. These stations are continuous record gaging stations and are operated by the U.S. Geological Survey. The Administration, the Geological Survey, and other agencies finance the operating costs.

Continuous-record stations on the Sabine River:

- Sabine River near Beckville, TX
- Sabine River at Logansport, LA (gage height only)
- Toledo Bend Reservoir near Burkeville, TX (elevation at two sites and contents)
- Sabine River near Burkeville, TX
- Sabine River near Bon Wier, TX
- Sabine River near Ruliff, TX (DCP equipped)

Continuous-record stations on tributaries flowing into the Sabine River:

- Bayou Grand Cane near Stanley, LA
- Bayou San Patricio near Benson, LA
- Bayou Toro near Toro, LA
- Bayou Anacoco near Rosepine, LA
- Big Cow Creek near Newton, TX

**Water quality stations are maintained at the following locations:
Bayou Anacoco near Knight, LA
Sabine River near Bon Wier, TX**

Records for these stations are given in Appendix B.

Respectfully submitted,

SABINE RIVER COMPACT ADMINISTRATION

**Vernon Sauer, Chairman (thru 4/18/14)
Representative of the United States**

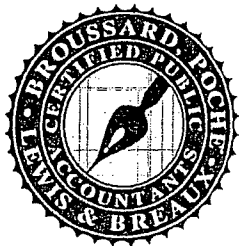
**George D. Brandon
Commissioner for Louisiana**

**Bobby E. Williams
Commissioner for Louisiana**

**Jerry Gipson
Commissioner for Texas**

**Michael H. Lewis
Commissioner for Texas**

APPENDIX A - AUDIT REPORT



BROUSSARD, POCHÉ, LEWIS & BREAUX, L.L.P.
CERTIFIED PUBLIC ACCOUNTANTS

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Craig J. Viator, CPA*
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George A. Lewis, CPA 1992
Geraldine J. Wimberley, CPA 1995
Lawrence A. Cramer, CPA 1999
Ralph Friend, CPA 2002
Donald W. Kelley, CPA 2005
George J. Trappey, III, CPA 2007
Terrel P. Dressel, CPA 2007
Herbert Lemoine II, CPA 2008
Mary T. Miller, CPA 2011
Mary A. Castille, CPA 2013

Members of American Institute of
Certified Public Accountants
Society of Louisiana Certified
Public Accountants

* A Professional Accounting Corporation

October 3, 2014

Board of Directors
Sabine River Compact Administration
Orange, Texas

We have audited the basic financial statements of the Sabine River Compact Administration for the year ended August 31, 2014. Professional standards require that we provide you with information about our responsibilities under generally accepted auditing standards and *Government Auditing Standards*, as well as certain information related to the planned scope and timing of our audit. We have communicated such information in our engagement letter to you dated April 24, 2013. Professional standards also require that we communicate to you the following information related to our audit.

Significant Audit Findings

Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by Sabine River Compact Administration are described in Note 1 to the financial statements.

In March 2012, the Governmental Accounting Standards Board (GASB) issued Statement No. 65 "*Items Previously Reported as Assets and Liabilities*." This Statement is effective for financial statements for years beginning after December 15, 2012. This Statement established accounting and financial reporting standards that reclassify as deferred outflows of resources or deferred inflows of resources certain items that were previously reported as assets and liabilities and recognizes, as outflows of resources and inflows of resources, certain items that were previously reported as assets or liabilities. This Statement also provides other financial reporting guidance related to the impact of the financial statement elements deferred outflows of resources and deferred inflows of resources, such as changes in the determination of the major fund calculations and limited the use of the term deferred in financial statement presentations.

Board of Directors
Sabine River Compact Administration
October 3, 2014
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The adoption of GASB Statement 65 had no effect in the current year. We noted no transactions entered into by the Administration during the year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the financial statements in the proper period.

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected. The Sabine River Compact Administration had no particularly sensitive accounting estimates that affected the financial statements as of and for the year ended August 31, 2014.

Difficulties Encountered in Performing the Audit

We encountered no significant difficulties in dealing with management in performing and completing our audit.

Corrected and Uncorrected Misstatements

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are trivial, and communicate them to the appropriate level of management. We noted no such misstatements.

Disagreements with Management

For purposes of this letter, professional standards define a disagreement with management as a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

Management Representations

We have requested certain representations from management that are included in the management representation letter dated October 3, 2014.

Management Consultations with Other Independent Accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves

Board of Directors
Sabine River Compact Administration
October 3, 2014
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application of an accounting principle to the Administration's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

Other Audit Findings or Issues

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as the Administration's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

Other Matters

We applied certain limited procedures to the management discussion and analysis and the budgetary comparison schedule, which are required supplementary information (RSI) that supplements the basic financial statements. Our procedures consisted of inquires of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We did not audit the RSI and do not express an opinion or provide any assurance on the RSI

This information is intended solely for the use of the Board of Commissioners and management of the Sabine River Compact Administration and is not intended to be and should not be used by anyone other than these specified parties.

Very truly yours,



BROUSSARD, POCHE', LEWIS, & BREAU, L.L.P.
Certified Public Accountants

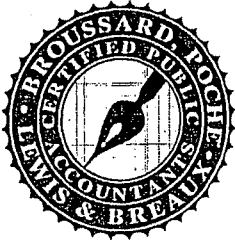
SABINE RIVER COMPACT ADMINISTRATION

FINANCIAL REPORT

AUGUST 31, 2014

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INDEPENDENT AUDITORS' REPORT

To the Board of Commissioners
Sabine River Compact Administration
States of Texas and Louisiana

We have audited the accompanying financial statements of the governmental activities of Sabine River Compact Administration, a component unit of the State of Texas and State of Louisiana, as of and for the years ended August 31, 2014 and 2013, and the related notes to financial statements, which collectively comprise the Administration's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities of the Sabine River Compact Administration, as of August 31, 2014 and 2013, and the respective changes in financial position for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Emphasis-of-Matter

As described in Note 1 to the financial statements, in 2014, the Administration adopted new accounting guidance, GASB Statement No. 65, *Items Previously Reported as Assets and Liabilities*. Our opinion is not modified with respect to this matter.

As described in Note 4 to the financial statements, errors resulting in and understatement of previously reported net position as of August 31, 2012 and an overstatement of previously reported net position as of August 31, 2013 were discovered during the year. Accordingly, the financial statements as of and for the year ending December 31, 2013 were restated to correct the error. Our opinion is not modified with respect to that matter.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and budgetary comparison information on pages 3 through 4 and 9 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Reporting Required by Government Auditing Standards

In accordance with Government Auditing Standards, we have also issued our report dated October 3, 2014, on our consideration of the Sabine River Compact Administration's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with Government Auditing Standards in considering Sabine River Compact Administration's internal control over financial reporting and compliance.



Lafayette, Louisiana
October 3, 2014

SABINE RIVER COMPACT ADMINISTRATION
MANAGEMENT'S DISCUSSION AND ANALYSIS

This section of the Sabine River Compact Administration (SRCA) annual financial report presents a discussion and analysis of SRCA's financial performance during the fiscal years that ended August 31, 2014, 2013 and 2012. Please read this section in conjunction with SRCA's financial statements, which follow this section.

FINANCIAL HIGHLIGHTS

SRCA's total assets exceeded total liabilities at the close of the year by \$45,208 (net position). Net position overall increased from \$44,194 to \$45,208 or 0.2% during the year ending August 31, 2014.

SRCA's intergovernmental revenues for the year ended August 31, 2014 remained the same as 2013 at \$42,680. General governmental expenses during 2014 increased \$690 over 2013 from 40,990 to \$41,680.

OVERVIEW OF THE FINANCIAL STATEMENTS

The financial report consists of three parts: Management's Discussion and Analysis (this section), the basic financial statements, and the notes to financial statements.

The basic financial statements present information for SRCA as a whole, in a format designed to make the statements easier for the reader to understand. The statements in this section include the statements of net position and the statements of activities.

The statements of net position present the assets and liabilities. The difference between total assets and total liabilities is net position and may provide a useful indicator of whether the financial position of SRCA is improving or deteriorating.

The statements of activities present information showing how SRCA's assets changed as a result of current year operations. Regardless of when cash is affected, all changes in net position are reported when the underlying transactions occur. As a result, transactions are recorded that will not affect cash until future periods.

The financial statements provide information about SRCA's overall financial status. The financial statements also include notes that explain some of the information in the financial statements and provide more detailed data.

SRCA's financial statements are prepared on an accrual basis in conformity with accounting principles generally accepted in the United States of America (GAAP) as applied to government units. Under this basis of accounting, revenues are recognized in the period in which they are earned and expenses are recognized in the period in which they are incurred. All assets and liabilities associated with the operation of SRCA are included in the statements of net position.

FINANCIAL ANALYSIS

Net Position

SRCA's total net position increased by \$1,014 or 0.2% for the year ended August 31, 2014, increased by \$1,712 or 0.4% for the year ended August 31, 2013 and increased \$3,593 for the year ended August 31, 2012. Below is condensed Statement of Net Position information as of August 31, 2014, 2013 and 2012.

SRCA'S STATEMENTS OF NET POSITION

	2014	(Restated) 2013	(Restated) 2012
Assets:			
Cash	\$ 63,350	\$ 48,578	\$ 54,876
Other	-	24,393	24,393
Total assets	\$ 63,350	\$ 72,971	\$ 79,269
Liabilities:			
Accounts payable	\$ 18,142	\$ 5,497	\$ 36,787
Other	-	23,280	-
Total liabilities	\$ 18,142	\$ 28,777	\$ 36,787
Net position	\$ 45,208	\$ 44,194	\$ 42,482
Total liabilities and net position	\$ 63,350	\$ 72,971	\$ 79,269

Changes in Net Position

The changes in net position for the years ended August 31, 2014, 2013 and 2012 were an increase of \$1,014, an increase of \$1,712 and an increase of \$3,593, respectively. Below is summary of the changes in net position for the years ending August 31, 2014, 2013 and 2012.

SRCA'S CHANGES IN NET POSITION

	2014	(Restated) 2013	(Restated) 2012
General revenues:			
Intergovernmental	\$ 42,680	\$ 42,680	\$ 65,450
Other	14	22	35
Total revenues	\$ 42,694	\$ 42,702	\$ 65,485
General government expenses:			
Secretary	\$ 4,400	\$ 4,400	\$ 4,400
Treasurer	1,800	1,800	1,800
Water resource investigation	32,980	32,540	53,442
Audit fees	2,500	2,250	2,250
Total expenses	\$ 41,680	\$ 40,990	\$ 61,892
Change in net position	\$ 1,014	\$ 1,712	\$ 3,593

CURRENTLY KNOWN FACTS, DECISIONS, OR CONDITIONS

There are currently no known facts, decisions or conditions that are expected to have a significant effect on financial position or results of operations.

CONTACTING SRCA'S FINANCIAL MANAGEMENT

This financial report is designed to provide our legislatures, state officials, the Louisiana Legislative Auditor's Office, patrons and other interested parties with a general overview of SRCA's finances and to demonstrate SRCA's accountability for the money it receives. If you have any questions about this report or need additional financial information, contact Debra Stagner at 409-746-2192.

SABINE RIVER COMPACT ADMINISTRATION

STATEMENTS OF NET POSITION
August 31, 2014 and 2013

ASSETS	2014	(Restated) 2013
Cash	\$ 63,350	\$ 48,578
Due from other governmental agencies	<u>-</u>	<u>24,393</u>
Total assets	<u>\$ 63,350</u>	<u>\$ 72,971</u>
LIABILITIES		
Accounts payable	\$ 18,142	\$ 5,497
Due to other governmental agencies	<u>-</u>	<u>23,280</u>
Total liabilities	<u>\$ 18,142</u>	<u>\$ 28,777</u>
NET POSITION		
Unrestricted	<u>\$ 45,208</u>	<u>\$ 44,194</u>
Total net position	<u>\$ 45,208</u>	<u>\$ 44,194</u>
Total liabilities and net position	<u>\$ 63,350</u>	<u>\$ 72,971</u>

See Notes to Financial Statements.

SABINE RIVER COMPACT ADMINISTRATION

STATEMENTS OF ACTIVITIES
 Years Ended August 31, 2014 and 2013

	2014	(Restated) 2013
EXPENSES:		
Governmental activities -		
General government	\$ 41,680	\$ 40,990
Total governmental activities	\$ 41,680	\$ 40,990
GENERAL REVENUES:		
Intergovernmental	\$ 42,680	\$ 42,680
Interest	14	22
Total general revenues	\$ 42,694	\$ 42,702
Change in net position	\$ 1,014	\$ 1,712
Fund balance, beginning of the year (as previously stated)	\$ 44,194	\$ 40,174
Prior period adjustment (see Note 4)	-	2,308
Fund balance, beginning of the year (as restated)	\$ 44,194	\$ 42,482
Fund balance, end of the year	\$ 45,208	\$ 44,194

See Notes to Financial Statements.

SABINE RIVER COMPACT ADMINISTRATION

BALANCE SHEETS – GOVERNMENTAL FUND
August 31, 2014 and 2013

ASSETS	<u>2014</u>	(Restated) <u>2013</u>
Cash	\$ 63,350	\$ 48,578
Due from other governmental agencies	<u>-</u>	<u>24,393</u>
Total assets	<u>\$ 63,350</u>	<u>\$ 72,971</u>
LIABILITIES AND FUND BALANCE		
Accounts payable	\$ 18,142	\$ 5,497
Due to other governmental agencies	<u>-</u>	<u>23,280</u>
Total liabilities	<u>\$ 18,142</u>	<u>\$ 28,777</u>
Fund balance - unassigned	<u>\$ 45,208</u>	<u>\$ 44,194</u>
Total liabilities and fund balance	<u>\$ 63,350</u>	<u>\$ 72,971</u>

See Notes to Financial Statements.

SABINE RIVER COMPACT ADMINISTRATION

STATEMENTS OF REVENUES, EXPENDITURES AND
CHANGES IN FUND BALANCE – GOVERNMENTAL FUND

Years Ended August 31, 2014 and 2013

	2014	(Restated) 2013
REVENUES:		
Intergovernmental	\$ 42,680	\$ 42,680
Interest	<u>14</u>	<u>22</u>
Total revenues	<u>\$ 42,694</u>	<u>\$ 42,702</u>
EXPENDITURES:		
General government	<u>\$ 41,680</u>	<u>\$ 40,990</u>
Net change in fund balance	<u>\$ 1,014</u>	<u>\$ 1,712</u>
Fund balance, beginning of the year (as previously stated)	\$ 44,194	\$ 40,174
Prior period adjustment (see Note 4)	<u>-</u>	<u>2,308</u>
Fund balance, beginning of the year (as restated)	<u>\$ 44,194</u>	<u>\$ 42,482</u>
Fund balance, end of the year	<u><u>\$ 45,208</u></u>	<u><u>\$ 44,194</u></u>

See Notes to Financial Statements.

SABINE RIVER COMPACT ADMINISTRATION

BUDGETARY COMPARISON SCHEDULE
GENERAL FUND

For the Year Ended August 31, 2014
With Comparative Actual Amounts for Year Ended August 31, 2013

	2014		Variance with Final Budget Positive Negative	(Restated) 2013 Actual
	Original and Final Budget	Actual		
REVENUES:				
Intergovernmental -				
State of Texas	\$ 21,340	\$ 21,340	\$ -	\$ 21,340
State of Louisiana	21,340	21,340	-	21,340
Interest	-	14	14	22
Total revenues	<u>\$ 42,680</u>	<u>\$ 42,694</u>	<u>\$ 14</u>	<u>\$ 42,702</u>
EXPENDITURES:				
General government -				
Maintenance - office of:				
Secretary	\$ 4,400	\$ 4,400	\$ -	\$ 4,400
Treasurer	1,800	1,800	-	1,800
Water resources				
investigation	32,980	32,980	-	32,540
Audit fees	2,500	2,500	-	2,250
Other	1,000	-	1,000	-
Total expenditures	<u>\$ 42,680</u>	<u>\$ 41,680</u>	<u>\$ 1,000</u>	<u>\$ 40,990</u>
Net change in fund balance	<u>\$ -</u>	<u>\$ 1,014</u>	<u>\$ 1,014</u>	<u>\$ 1,712</u>
Fund balance, beginning of the year (as previously stated)	\$ 44,194	\$ 44,194	\$ -	\$ 40,174
Prior period adjustment (Note 4)	-	-	-	2,308
Fund balance, beginning of the year (as restated)	<u>\$ 44,194</u>	<u>\$ 44,194</u>	<u>\$ -</u>	<u>\$ 42,482</u>
Fund balance, end of the year	<u>\$ 44,194</u>	<u>\$ 45,208</u>	<u>\$ 1,014</u>	<u>\$ 44,194</u>

See Notes to Financial Statements.

SABINE RIVER COMPACT ADMINISTRATION

NOTES TO FINANCIAL STATEMENTS

Note 1. Summary of Significant Accounting Policies

Basis of presentation:

The financial statements of the Sabine River Compact Administration have been prepared in accordance with generally accepted accounting principles in the United States of America ("GAAP") applicable to state and local governments. The Governmental Accounting Standards Board ("GASB") is the accepted standard-setting body for establishing governmental accounting and financial reporting principles. The significant accounting and reporting policies and practices used by the Administration are described below.

Reporting entity:

The Sabine River Compact Administration, a component unit of the State of Texas and State of Louisiana, is an entity formed by a compact entered into by the State of Texas and the State of Louisiana on January 26, 1953, under authority granted by an Act of the Congress of the United States approved November 1, 1951, (Public Law No. 252, 82nd Congress, First Session). The Act was amended on October 30, 1992 (Public Law No. 102-575 of the 102 Congress). The objective of the Compact is to provide equitable apportionment of the waters of the Sabine River and its tributaries between the two states. The operation is administered by an Inter-State Administrative Agency composed of two members appointed by the Governor of Texas and two members appointed by the Governor of Louisiana; and one member, as representative of the United States appointed by the President of the United States, which member shall be ex-officio chairman of the Administration without vote and shall not be a domiciliary of or resident in either state.

Measurement focus/basis of accounting:

Government-wide financial statements (GWFS) –

The statements of net position and the statements of activities display information about the reporting government as a whole. These statements include all the financial activities of the Administration.

The GWFS were prepared using the economic resources measurement focus and the accrual basis of accounting. All governmental activities are reported on a full accrual, economic resource basis, which recognizes all long-term assets and receivables as well as long-term debt and obligations.

Fund financial statements -

Governmental funds are accounted for using a current financial resources measurement focus. With this measurement focus, only current assets and current liabilities are generally included on the balance sheets. The statements of revenues, expenditures and changes in fund balance report on the sources (i.e., revenues and other financing sources) and uses (i.e., expenditures and other financing uses) of current financial resources. This approach differs from the manner in which the governmental activities of the GWFS are prepared; however, there are no differences between the GWFS and the fund financial statements as of and for the year ended August 31, 2014.

Fund financial statements report detailed information about the Administration. The focus of governmental fund financial statements is on major funds rather than reporting funds by type. The Administration has only one fund, the General Fund, which by definition is always a major fund.

NOTES TO FINANCIAL STATEMENTS

Governmental funds use the modified accrual basis of accounting. Under the modified accrual basis of accounting, revenues are recognized when susceptible to accrual (i.e., when they become both measurable and available). Measurable means the amount of the transaction can be determined and available means collectible within the current period or soon enough thereafter to pay liabilities of the current period. Expenditures are recorded when the related fund liability is incurred.

The two major sources of revenues are intergovernmental and interest. Both of these are susceptible to accrual.

Budgets:

Budgets are adopted on a basis consistent with accounting principles generally accepted in the United States of America. An annual appropriated budget is adopted for the General Fund. The budget is prepared by the Sabine River Compact Administration management for formal approval by the Board of Commissioners. Any amendments to the original budget are approved by the Board of Commissioners. Budgeted amounts presented are as originally adopted and as amended. Because the Administration did not amend its budget during the fiscal year, the amounts presented as original and final are the same.

Cash:

Cash consists of amounts in interest bearing deposit accounts.

Equity classifications:

Government-wide financial statements -

Equity is classified as net position. The Administration's net position is classified as unrestricted.

Fund financial statements -

Governmental fund equity is classified as fund balance. The following classifications describe the relative strength of the spending constraints placed on the purposes for which resources can be used:

- Nonspendable fund balance - amounts that are not in a spendable form (such as inventory) or are required to be maintained intact;
- Restricted fund balance - amounts constrained to specific purposes by their providers (such as grantors, bondholders, and higher levels of government), through constitutional provisions, or by enabling legislation;
- Committed fund balance - amounts constrained to specific purposes by a government itself, using its highest level of decision-making authority; to be reported as committed, amounts cannot be used for any other purpose unless the government takes the same highest level action to remove or change the constraint;
- Assigned fund balance - amounts a government intends to use for a specific purpose; intent can be expressed by the governing body or by an official or body to which the governing body delegates the authority;
- Unassigned fund balance - amounts that are available for any purpose; positive amounts are reported only in the general fund.

NOTES TO FINANCIAL STATEMENTS

The Board of Commissioners establishes (and modifies or rescinds) fund balance commitments by passage of an ordinance or resolution. This is typically done through adoption and amendment of the budget. A fund balance commitment is further indicated in the budget document as a designation or commitment of the fund (such as for special incentives). Assigned fund balance is established by the Board of Commissioners through adoption or amendment of the budget as intended for specific purpose (such as the purchase of fixed assets, construction, debt service, or for other purposes).

The Administration's fund balance is classified as unassigned.

Use of estimates:

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

Recent accounting pronouncements:

In March 2012, the Governmental Accounting Standards Board (GASB) issued Statement No. 65 *"Items Previously Reported as Assets and Liabilities."* This Statement is effective for financial statements for years beginning after December 15, 2012. This Statement established accounting and financial reporting standards that reclassify as deferred outflows of resources or deferred inflows of resources certain items that were previously reported as assets and liabilities and recognizes, as outflows of resources and inflows of resources, certain items that were previously reported as assets or liabilities. This Statement also provides other financial reporting guidance related to the impact of the financial statement elements deferred outflows of resources and deferred inflows of resources, such as changes in the determination of the major fund calculations and limited the use of the term deferred in financial statement presentations.

The adoption of GASB Statement 65 had no effect on the financial statements and related notes in the current year.

Note 2. Deposits

The bank balance of deposits was \$65,150 and \$59,131 at August 31, 2014 and 2013, respectively, which was entirely covered by federal depository insurance. Accordingly, the Administration did not have any custodial credit risk at August 31, 2014 and 2013.

Note 3. Due To and From Other Governmental Entities

As of August 31, 2014 and 2013, amounts due from other governmental agencies were as follows:

	<u>2014</u>	<u>2013</u>
Sabine River Authority of Texas	\$ -	\$ 24,393

NOTES TO FINANCIAL STATEMENTS

As of August 31, 2014 and 2013, amounts due to other governmental agencies were as follows:

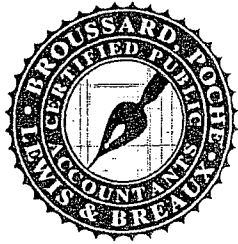
	2014	2013
Sabine River Authority of Texas	\$ -	\$ 11,640
Sabine River Authority of Louisiana	-	<u>11,640</u>
	<u>\$ -</u>	<u>\$ 23,280</u>

Note 4. Prior Period Adjustment

In the current year it was determined that an invoice was paid on behalf of Sabine River Authority of Texas during 2012 in error. The invoice totaled \$24,393 and resulted in an overstatement of general government expenses during that year. In addition, it was further discovered that an invoice which should have been recognized as an expense during 2012 was not properly accrued. The invoice totaled \$24,600 of which only \$2,515 was accrued and recognized as expense. This resulted in an understatement of general government expenses in 2012 of \$22,085. The net effect of these two errors resulted in an understatement of net position and fund balance of \$2,308 as of August 31, 2012.

Additionally, in 2013 general government expenses were overstated due to the \$22,085 being recognized in the wrong year. The overstatement of expense in 2013 caused the Administration to overbill Sabine River Authority of Texas and Sabine River Authority of Louisiana each \$11,640. This resulted in an overstatement of intergovernmental revenues during 2013 of \$23,280. The overbilling should have been recognized as amounts due back to these agencies as of August 31, 2013. The net effect of these two errors resulted in an overstatement of net position and fund balance of \$1,195 as of August 31, 2013. In addition the \$24,393 due from other governmental agencies resulting from the payment error in 2012 was still outstanding at August 31, 2013.

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**INDEPENDENT AUDITORS' REPORT ON INTERNAL CONTROL
OVER FINANCIAL REPORTING AND ON COMPLIANCE AND
OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL
STATEMENTS PERFORMED IN ACCORDANCE WITH
GOVERNMENT AUDITING STANDARDS**

To the Board of Commissioners
Sabine River Compact Administration
State of Texas and Louisiana

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in Government Auditing Standards issued by the Comptroller General of the United States, the financial statements of the governmental activities of Sabine River Compact Administration (the "Administration"), as of and for the year ended August 31, 2014, and the related notes to financial statements, which collectively comprise the Administration's basic financial statements, and have issued our report thereon dated October 3, 2014.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the Administration's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Administration's internal control. Accordingly, we do not express an opinion on the effectiveness of the Administration's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or, significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Administration's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under Government Auditing Standards.

Purpose of This Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with Government Auditing Standards in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.



Lafayette, Louisiana
October 3, 2014

SABINE RIVER COMPACT ADMINISTRATION

SCHEDULE OF FINDINGS AND RESPONSES

Year Ended August 31, 2014

We have audited the basic financial statements of Sabine River Compact Administration as of and for the year ended August 31, 2014, and have issued our report thereon dated October 3, 2014. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States. Our audit of the basic financial statements as of August 31, 2014 resulted in an unmodified opinion.

Section I - Summary of Auditors' Reports

A. Report on Internal Control and Compliance Material to the Financial Statements

Internal Control

Material weakness(es) identified Yes No

Control deficiencies identified that are not considered to be material weakness(es) Yes None reported

Compliance

Noncompliance material to financial statements Yes No

Section II - Financial Statement Findings

No matters were reported.

SABINE RIVER COMPACT ADMINISTRATION

SCHEDULE OF PRIOR FINDINGS
For the Year Ended August 31, 2014

Section I. Internal Control and Compliance Material to the Financial Statements

None reported.

Section II. Internal Control and Compliance Material to Federal Awards

Not applicable.

Section III. Management Letter

The prior year's report did not include a management letter.

APPENDIX B

GAGING STATION RECORDS

The data herein presented for discharge gaging stations consists of a description of the station; a summary of the average and extreme flow conditions for the period of record; daily discharges; current and historical monthly summaries; summary statistics for calendar year, water year, and historical periods; and a graph of current water year data. Only daily gage heights (in data and in graph form) are shown for Sabine River at Logansport since it is affected by the backwater in Toledo Bend Reservoir and only daily reservoir storage (in data and graph form) is shown for Toledo Bend Reservoir near Burkeville, Texas.

The gaging-station description shows the present location of the gage, the drainage flow area, the period of record, the type of gage, general remarks affecting flow, the average discharge, and the extremes. The location of the gaging station and the drainage area are obtained from the most accurate maps available. Under "Gage" is given the type of gage currently in use and the datum of this gage. Information pertaining to conditions affecting natural flow at the gaging station is given under "Remarks". Under "Average Discharge" is shown the mean flow for the years indicated. The maximum discharge and gage height, and minimum discharge for key periods are shown under "Extremes".

The data herein presented for water quality stations consists of a description of the station, a summary of certain daily values for the period of record, and water quality data for various sampling intervals. The water quality stations description shows the present location of the gage, the drainage flow area, the period of record, the period of daily record, general remarks affecting flow, extremes for the period of daily record, and extremes outside the period of daily record.

Information concerning revisions to past records; changes in the type, location, and datum of the gages; changes in regulation and diversion; and the methods for determining the extremes are contained in the report. Records for previous water years, for stations or tributary streams, and for quality-of-water data can also be found in the annual series of U.S. Geological Survey reports. These reports can be obtained from the District Chief in the State responsible for the records. Records for the main stem of the Sabine River and the tributary streams in Texas are available from the District Chief, U.S. Geological Survey, 8027 Exchange Drive, Austin, Texas 78754; records for the tributary streams in Louisiana are available from the District Chief, U.S. Geological Survey, 3535 S. Sherwood Forest Boulevard, Suite 120, Baton Rouge, Louisiana 70816.

Data included herein was furnished by the U.S. Geological Survey in accordance with a cooperative agreement with the Sabine River Compact Administration.



USGS Water-Year Summary 2014

08022040 Sabine River near Beckville, TX

LOCATION - Lat 32°19'38", long 94°21'12" referenced to North American Datum of 1927, Panola County, TX, Hydrologic Unit 12010002, on downstream side of highway embankment near right end of downstream bridge on U.S. Highway 59, 0.9 mi upstream from Eightmile Creek, 6.0 mi upstream from Farm Road 1794, 8.4 mi northeast of Beckville, 12.4 mi downstream from State Highway 43 and at mile 327.0.

DRAINAGE AREA - 3,589 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD - Oct. 1938 to current year. Prior to Oct. 1978, published as "near Tatum" (station 08022000).
 PERIOD OF RECORD, Water-Quality.-- CHEMICAL DATA: Feb. 1952 to Mar. 1999. BIOCHEMICAL DATA: Jan. 1968 to Mar. 1999. PESTICIDE DATA: Mar. 1968 to June 1981. RADIOCHEMICAL DATA: Jan. to June 1981. PERIOD OF DAILY RECORD, Water-Quality.-- SPECIFIC CONDUCTANCE: Feb. 1952 to Sept. 1998. WATER TEMPERATURE: Feb. 1952 to Sept. 1998.

GAGE - Water-stage recorder. Datum of gage is 190.00 ft above NGVD of 1929. Prior to Oct. 1, 1978, at site 12.4 mi upstream at datum 14.18 ft higher. Prior to Sept. 21, 1945, nonrecording gage. Satellite telemeter at station.

REMARKS - Records for the 2014 water year are fair except those for estimated daily mean discharges, which are poor. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically. Since water year 1961, at least 10% of contributing drainage area has been regulated. There are several diversions above this station and below Lake Tawakoni for municipal, industrial and oil field operations. Low flows are sustained by wastewater effluents that are returned to the river above the station. Flow may also be slightly affected at times by discharge from floodwater retarding structures controlling runoff from 9.70 mi² in the Mill Creek drainage basin.

EXTREMES OUTSIDE PERIOD OF RECORD - Flood in May 1884 reached a stage of about 2 ft lower than flood of Apr. 4, 1945. These dates and gage heights are based on information for Sabine River near Tatum (station 08022000) and Sabine River at Logansport, LA. (station 08022500).

EXTREMES FOR PERIOD PRIOR TO REGULATION - WATER YEARS 1939-1960: Maximum discharge, 123,000 ft³/s, Apr. 4, 1945, from rating curve extended above 66,000 ft³/s on basis of partly estimated discharge measurement of 88,900 ft³/s, gage height, 33.80 ft, from graph based on gage readings; minimum observed, 2.4 ft³/s, Aug. 11, 1964.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION - 22 years (water years 1939-1960) prior to regulation by Lake Tawakoni, 2,663 ft³/s (1,929,000 acre-ft/yr).

U.S. Department of the Interior
 U.S. Geological Survey

Suggested citation: U.S. Geological Survey, 2015, National Water Information System data available on the World Wide Web (USGS Water Data for the Nation), accessed [March 3, 2015], at URL http://nwis.waterdata.usgs.gov/nwis/wys_rpt?dd_parm_cds=006_00060&adr_begin_date=2013-10-01&adr_end_date=2014-09-30&site_no=08022040&agency_cd=USGS

Water-Data Report 2014

08022040 Sabine River near Beckville, TX -- Continued

**DISCHARGE, CUBIC FEET PER SECOND
YEAR 2013-10-01 to 2014-09-30****DAILY VALUES**

[e, Value has been estimated.]

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	563	326	419	7,290	6,630	6,980	2,450	1,970	2,200	3,110	1,990	2,500
2	326	268	295	6,630	5,310	5,980	1,970	1,630	1,800	1,990	1,550	1,710
3	406	298	365	5,310	4,060	4,630	1,630	1,380	1,500	1,560	1,350	1,460
4	406	356	384	4,060	2,980	3,530	1,380	1,230	1,310	1,350	1,290	1,320
5	374	292	338	2,980	2,150	2,540	1,230	1,120	1,170	1,310	1,260	1,290
6	306	258	282	2,150	1,740	1,910	1,120	1,010	1,050	1,260	1,150	1,200
7	258	232	247	1,740	1,500	1,620	1,370	1,020	1,190	1,150	1,070	1,120
8	250	219	237	1,500	1,270	1,360	1,740	1,370	1,570	1,080	910	974
9	221	190	208	1,290	1,250	1,260	1,980	1,740	1,870	950	906	935
10	195	155	178	1,430	1,290	1,350	2,130	1,980	2,060	955	906	940
11	155	123	143	1,530	1,430	1,490	2,160	2,130	2,160	959	884	926
12	147	113	138	1,540	1,500	1,530	2,150	2,060	2,110	1,000	946	973
13	134	118	130	1,500	1,300	1,420	2,060	1,890	1,970	1,040	950	992
14	126	99	118	1,300	995	1,150	3,030	1,920	2,440	1,590	1,040	1,290
15	137	111	129	995	735	843	3,080	2,850	3,010	1,870	1,590	1,760
16	237	121	169	735	606	671	2,850	2,140	2,510	1,920	1,870	1,900
17	673	237	545	624	491	551	2,140	1,850	1,960	1,880	1,690	1,800
18	635	436	510	491	419	450	1,850	1,730	1,790	1,690	1,360	1,540
19	470	403	440	419	350	386	1,730	1,520	1,630	1,360	1,130	1,230
20	506	470	489	350	303	327	1,550	1,360	1,460	1,130	932	1,030
21	495	432	465	416	315	365	3,800	1,340	1,990	932	787	854
22	432	344	388	1,030	412	525	6,510	3,800	5,290	787	696	731
23	344	298	314	2,110	1,030	1,790	6,640	6,340	6,540	696	661	682
24	303	284	296	2,190	2,070	2,150	6,340	5,640	6,030	661	616	636
25	289	237	259	2,330	2,000	2,090	5,640	4,900	5,240	616	602	610
26	240	208	234	3,480	2,330	2,940	4,900	4,480	4,660	609	588	602
27	265	216	237	4,040	3,480	3,860	4,480	4,310	4,380	598	552	570
28	446	265	386	4,040	3,500	3,830	4,310	4,230	4,270	563	524	551
29	446	284	348	3,500	2,970	3,220	4,230	4,150	4,200	545	498	527
30	409	260	293	2,970	2,450	2,710	4,150	3,930	4,060	506	460	485
31	6,670	409	3,600				3,930	3,110	3,630	502	463	483
Total	16,860	8,062	12,580	69,970	56,870	63,460	94,530	80,130	87,050	36,170	31,219	33,620
Mean	544	260	406	2,332	1,896	2,115	3,049	2,585	2,808	1,167	1,007	1,085
Max	6,670	470	3,600	7,290	6,630	6,979	6,640	6,340	6,540	3,110	1,990	2,500
Min	126	99.0	118	350	303	327	1,120	1,010	1,050	502	460	483
Ac-ft	33,450	15,989	24,960	138,800	112,800	125,900	187,500	158,900	172,700	71,740	61,929	66,690

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February			March			April			May			
1	506	466	489	867	804	838	1,310	1,080	1,180	384	323	358
2	545	477	511	837	775	814	1,100	973	1,040	323	265	295
3	955	545	729	2,440	800	1,430	982	846	905	292	284	287
4	1,150	946	1,060	2,720	2,440	2,640	1,040	767	834	289	260	281
5	1,710	1,150	1,460	2,550	1,940	2,220	1,330	1,040	1,260	279	224	252
6	1,890	1,710	1,820	1,940	1,710	1,810	1,360	995	1,090	315	271	302
7	1,910	1,890	1,900	1,710	1,560	1,630	7,680	1,360	5,020	298	213	254
8	1,900	1,850	1,880	1,560	1,430	1,500	8,880	7,680	8,560	273	195	217
9	1,850	1,750	1,800	1,470	1,430	1,460	8,750	7,270	8,170	2,540	273	1,130
10	1,750	1,590	1,670	1,480	1,450	1,470	7,270	4,610	5,950	2,840	2,540	2,780
11	---	---	1,510	1,460	1,330	1,400	4,610	2,950	3,650	2,760	2,320	2,580
12	---	---	e1,440	1,330	1,190	1,270	2,950	2,240	2,550	2,320	1,850	2,040
13	1,540	1,490	1,530	1,190	1,060	1,120	2,240	1,810	2,010	5,440	1,950	3,470
14	1,520	1,400	1,460	1,060	906	976	1,810	1,500	1,640	6,650	5,440	6,210
15	1,400	1,290	1,340	910	800	852	1,500	1,340	1,420	6,820	6,650	6,770
16	1,290	1,160	1,230	1,690	837	1,150	1,340	1,120	1,230	6,750	5,580	6,310
17	1,160	1,060	1,110	1,860	1,690	1,810	1,170	1,090	1,110	5,580	3,800	4,670
18	1,060	986	1,020	1,750	1,360	1,540	1,380	1,170	1,300	3,800	2,670	3,190
19	986	884	938	1,370	1,300	1,320	1,380	1,310	1,360	2,670	1,920	2,260
20	928	841	892	1,340	1,290	1,330	1,310	1,190	1,260	1,920	1,420	1,670
21	923	880	904	1,330	1,290	1,310	1,190	991	1,100	1,420	1,040	1,220
22	901	816	862	1,290	1,210	1,250	991	893	938	1,040	779	901
23	820	739	775	1,210	1,090	1,150	893	820	859	779	657	711
24	739	684	708	1,090	950	1,020	820	719	773	657	563	609
25	688	631	661	955	791	876	719	535	618	563	463	517
26	735	657	672	791	692	734	535	473	502	463	393	428
27	968	735	897	711	646	677	488	456	474	442	380	418
28	950	858	899	699	613	651	473	432	459	977	442	804
--				2,020	699	1,390	432	371	403	946	841	875
--				2,070	1,930	2,030	390	353	380	841	763	795
--				1,930	1,310	1,640				1,490	816	1,080
Total			32,170	45,630	37,320	41,310	66,320	48,380	58,050	62,160	45,580	53,680
Mean			1,149	1,472	1,204	1,333	2,211	1,613	1,935	2,005	1,470	1,732
Max			1,900	2,720	2,440	2,640	8,880	7,680	8,560	6,820	6,650	6,770
Min			489	699	613	651	390	353	380	273	195	217
Ac-ft			63,800	90,510	74,030	81,930	131,600	95,970	115,100	123,300	90,420	106,500

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	1,690	1,490	1,630	580	491	533	783	219	498	116	93	106
2	1,600	1,190	1,400	491	416	452	783	549	667	99	93	97
3	1,190	955	1,060	419	347	383	715	538	594	113	95	105
4	955	787	870	368	298	346	1,090	715	914	137	111	124
5	787	669	718	298	245	261	1,180	1,090	1,150	121	108	113
6	669	527	599	245	230	237	1,160	1,040	1,110	116	104	110
7	527	436	472	230	197	211	1,040	791	928	106	97	101
8	436	371	405	200	187	197	791	563	668	108	95	102
9	371	326	348	190	165	176	563	419	489	111	99	105
10	715	371	517	187	168	178	419	315	364	131	111	120
11	731	699	722	184	165	177	315	250	276	142	106	116
12	699	654	677	165	137	148	250	232	238	208	142	189
13	707	676	691	137	123	131	250	221	235	205	170	191
14	699	588	650	155	134	146	240	203	219	170	152	159
15	598	527	559	210	137	159	205	162	180	350	162	277
16	535	463	497	170	134	152	165	152	161	353	298	331
17	466	403	430	170	142	152	157	137	150	298	232	264
18	403	344	376	527	150	251	147	118	136	235	181	208
19	477	393	442	771	527	697	145	113	122	181	160	171
20	480	432	467	767	341	592	126	111	115	203	181	195
21	432	387	402	341	250	277	179	123	151	192	162	175
22	387	326	361	250	232	242	168	150	155	162	142	152
23	326	289	305	232	224	229	150	111	132	145	123	136
24	312	298	305	232	216	224	113	99	111	123	111	117
25	400	295	332	326	232	299	102	88	95	131	116	124
26	1,050	400	742	289	224	257	99	86	92	131	126	127
27	1,020	739	868	224	184	201	108	99	104	126	118	123
28	747	639	695	200	181	190	104	90	97	123	116	119
29	650	616	634	265	197	242	90	78	86	118	99	110
30	646	573	623	255	213	236	84	76	81	99	93	94
--				232	200	218	118	80	103			
Total	20,710	16,860	18,800	9,310	7,087	8,194	11,840	9,018	10,420	4,853	3,996	4,461
Mean	690	562	627	300	229	264	382	291	336	162	133	149
Max	1,690	1,490	1,630	771	527	697	1,180	1,090	1,150	353	298	331
Min	312	289	305	137	123	131	84.0	76.0	81.0	99.0	93.0	94.0
Ac-ft	41,070	33,450	37,280	18,470	14,060	16,250	23,480	17,890	20,670	9,626	7,926	8,848

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2014, BY WATER YEAR (WY)

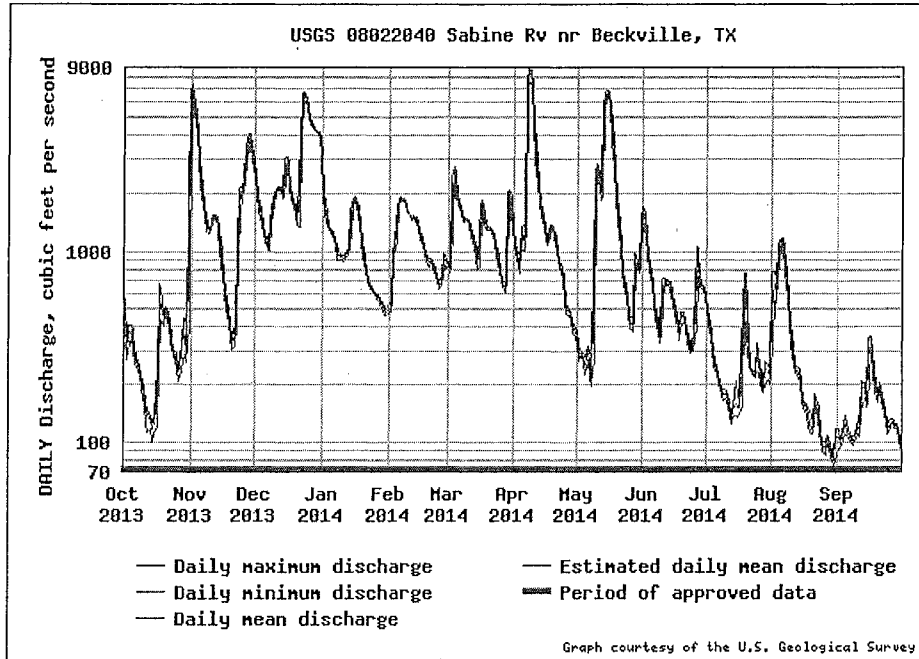
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	797	1,617	2,990	3,227	3,854	4,446	3,667	3,927	2,392	1,076	339	442
Max	10,870	10,380	12,270	10,970	11,930	21,620	11,330	21,010	11,580	12,080	2,232	3,434
(WY)	(2010)	(2010)	(2002)	(1992)	(1975)	(2001)	(1990)	(1966)	(1989)	(2007)	(2007)	(1974)
Min	42.5	82.1	104	239	322	317	355	250	60.4	30.2	22.4	25.1
(WY)	(1964)	(1964)	(2006)	(1964)	(1996)	(1996)	(1971)	(2011)	(2006)	(2011)	(2011)	(2006)

Water-Data Report 2014
 08022040 Sabine River near Beckville, TX -- Continued

SUMMARY STATISTICS

	Water Year 2014		Water Years 1961 - 2014	
Annual total	423,800			
Annual mean	1,161		2,390	
Highest annual mean			5,105	2001
Lowest annual mean			265.2	2011
Highest daily mean	8,560	Apr 08	48,100	May 02, 1966
Lowest daily mean	81.0	Aug 30	2.40	Aug 11, 1964
Annual 7-day minimum	94.0	Aug 25	3.8	Aug 07, 1964
Maximum peak flow	8,880 ^a	Apr 08	49,400 ^a	May 02, 1966
Maximum peak stage	23.57	Nov 01	32.87	Mar 30, 1989
Annual runoff (cfsm)	0.324		0.666	
Annual runoff (inches)	4.39		9.05	
10 percent exceeds	2,544		7,120	
50 percent exceeds	718.0		771.0	
90 percent exceeds	141.0		89.0	

^a Discharge affected by Regulation or Diversion





USGS Water-Year Summary 2014

08022500 Sabine River at Logansport, LA

LOCATION - Lat 31°58'20", long 94°00'22" referenced to North American Datum of 1927, Shelby County, TX, Hydrologic Unit 12010004, on left bank just upstream from bridge on U.S. Highway 84, 3.0 mi upstream from Bayou Castor, 111 mi upstream from Toledo Bend Dam and at mile 267.1.

DRAINAGE AREA - 4,842 mi² of which 3 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD - July 1903 to Apr. 1968 (daily mean discharge), Mar. 1968 to current year (daily gage height). PERIOD OF RECORD, Water-Quality.-- CHEMICAL DATA: Apr. 1971 to July 1985. BIOCHEMICAL DATA: Mar. 1973 to July 1985. RADIOCHEMICAL DATA: Apr. 1979 to July 1981. PESTICIDE DATA: Apr. 1971 to Oct. 1984. SEDIMENT DATA: Oct. 1980 to July 1983. PERIOD OF DAILY RECORD, Water-Quality.-- SPECIFIC CONDUCTANCE: 1939 to 1945. WATER TEMPERATURE: 1939 to 1945.

REVISED RECORDS - WSP 1312: 1903-06 (monthly and annual means). WSP 1732: 1929(M), 1933(M).

GAGE - Water-stage recorder. Datum of gage is 147.72 ft above NGVD of 1929. July 1, 1903, to Sept. 30, 1956, nonrecording gages located in the vicinity of present gage. Oct. 1, 1956, to Jan. 16, 1964, water-stage recorder 4,600 ft upstream. Jan. 16, 1964, to Dec. 10, 1968, water-stage recorder 4,700 ft upstream. All gages to present datum except prior to Dec. 31, 1906 when datum was 2.00 ft lower. Satellite telemeter at station.

REMARKS - For 2014 water year, records good. Station discontinued as a daily streamflow station on Mar. 1, 1968, due to backwater from storage in Toledo Bend Reservoir. Since water year 1961, at least 10% of contributing drainage area has been regulated. Flow may also be slightly affected at times by discharge from one floodwater-retarding structure. This structure controls runoff from 9.70 mi² in the Mill Creek drainage basin. Numerous diversions above station for oil field operations, municipal and industrial uses. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically

EXTREMES OUTSIDE PERIOD OF RECORD - Flood in May 1884 reached a stage of 39.4 ft at present site and datum. Stage determined from high-water mark.

EXTREMES FOR PERIOD OF RECORD - WATER YEARS, 1961-1967 (daily mean discharge): Maximum discharge, 46,800 ft³/s May 6, 1966, gage height, 38.46 ft; minimum, 25 ft³/s, Aug. 13, 1964. WATER YEARS, 1968 to current year (daily gage height): Maximum gage height, 34.78 ft, Apr. 16, 1991; minimum since initial filling of Toledo Bend Reservoir in June 1968, 16.85 ft, Nov. 9, 1987.

EXTREMES FOR PERIOD PRIOR TO REGULATION - WATER YEARS, 1904-1960: Maximum discharge, 92,000 ft³/s Apr. 8, 1945, gage height, 44.07 ft, from floodmark; minimum, 16 ft³/s, Sept. 26-28, Oct. 3, 4, 1939.

AVERAGE DISCHARGE FOR PERIOD OF RECORD - 7 years (water years 1961-1967), 2,252 ft³/s (1,632,000 acre-ft/yr).

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION - 57 years (water years 1904-1960), 3,325 ft³/s (2,407,000 acre-ft/yr).

U.S. Department of the Interior
U.S. Geological Survey

Suggested citation: U.S. Geological Survey, 2015, National Water Information System data available on the World Wide Web (USGS Water Data for the Nation), accessed [March 3, 2015], at URL http://nwis.waterdata.usgs.gov/nwis/wys_rpt?dd_parm_cds=003_00065&adr_begin_date=2013-10-01&adr_end_date=2014-09-30&site_no=08022500&agency_cd=USGS

Water-Data Report 2014
 08022500 Sabine River at Logansport, LA -- Continued

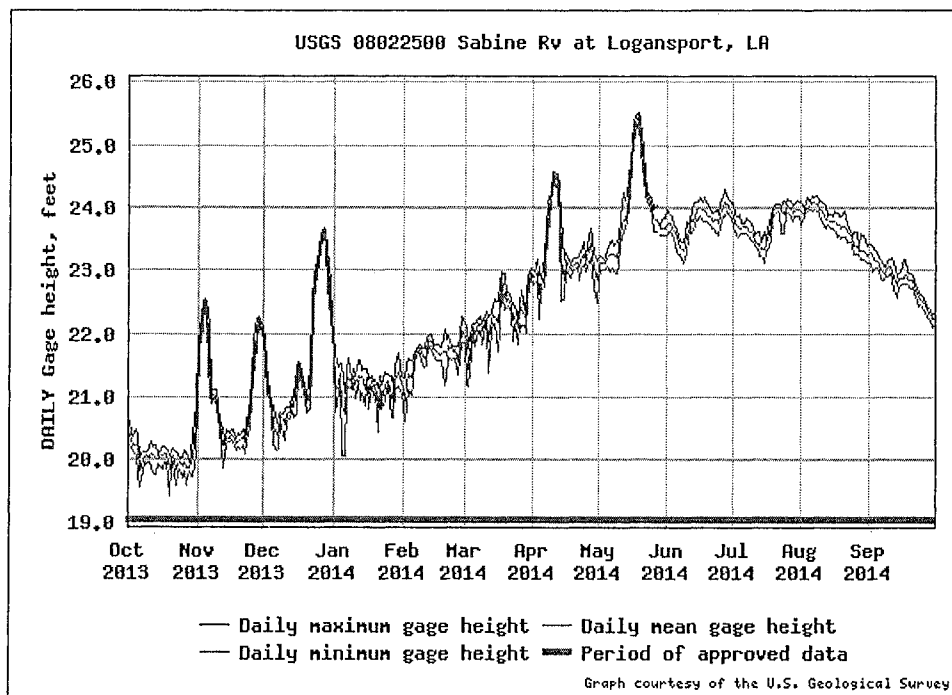
GAGE HEIGHT, FEET
YEAR 2013-10-01 to 2014-09-30
DAILY VALUES

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January			February		
1	20.63	20.24	20.42	21.85	20.86	21.44	21.91	21.52	21.74	21.99	21.66	21.85	21.34	21.07	21.24
2	20.39	20.17	20.29	22.07	21.77	21.88	21.52	21.03	21.27	21.66	20.76	21.09	21.30	20.63	20.95
3	20.37	20.13	20.24	22.48	22.07	22.27	21.05	20.92	20.98	21.47	21.05	21.19	21.49	20.84	21.20
4	20.48	20.07	20.24	22.53	22.47	22.50	20.92	20.71	20.84	21.53	21.21	21.37	21.62	21.12	21.36
5	20.36	19.77	20.17	22.51	22.11	22.35	20.81	20.22	20.50	21.52	20.07	20.85	21.58	21.02	21.30
6	20.05	19.57	19.82	22.13	20.99	21.67	20.59	20.16	20.39	21.07	20.07	20.72	21.62	21.23	21.43
7	20.12	19.81	19.99	21.06	20.89	20.98	20.70	20.17	20.46	21.41	21.07	21.23	21.73	21.54	21.65
8	20.11	19.95	20.04	21.10	20.98	21.04	20.75	20.64	20.71	21.61	21.16	21.30	21.81	21.72	21.76
9	20.13	19.93	20.06	21.10	20.84	20.95	20.74	20.41	20.64	21.28	21.11	21.20	21.84	21.69	21.78
10	20.18	19.97	20.04	20.84	20.64	20.73	20.78	20.31	20.55	21.44	21.21	21.32	21.77	21.56	21.69
11	20.30	19.84	20.09	20.65	20.48	20.57	20.84	20.62	20.74	21.32	20.97	21.19	21.78	21.47	21.62
12	20.20	19.80	20.06	20.48	19.87	20.23	20.84	20.64	20.76	21.59	21.24	21.34	21.94	21.50	21.70
13	20.22	19.77	20.00	20.32	20.03	20.23	20.99	20.79	20.89	21.59	20.95	21.31	21.97	21.82	21.92
14	20.06	19.94	20.01	20.48	20.25	20.36	21.01	20.67	20.83	21.41	21.06	21.33	21.98	21.73	21.87
15	20.12	19.89	20.03	20.43	20.28	20.35	21.47	20.72	21.21	21.44	20.87	21.11	21.84	21.69	21.78
16	20.21	19.85	20.07	20.49	20.31	20.40	21.55	21.47	21.51	21.45	21.21	21.31	21.84	21.60	21.75
17	20.20	19.95	20.10	20.48	20.27	20.38	21.49	21.27	21.40	21.27	20.82	21.07	21.82	21.57	21.68
18	20.19	19.97	20.09	20.34	20.16	20.26	21.27	21.09	21.19	21.34	21.17	21.25	21.79	21.57	21.65
19	20.08	19.44	19.85	20.42	20.20	20.30	21.19	20.94	21.08	21.25	21.02	21.17	21.80	21.58	21.69
20	20.12	19.89	20.03	20.39	20.19	20.31	21.01	20.76	20.89	21.28	21.05	21.20	22.08	21.20	21.73
21	20.17	19.96	20.06	20.49	20.24	20.37	21.48	20.81	21.09	21.14	20.44	20.84	21.92	21.24	21.67
22	20.11	19.59	19.85	20.41	20.10	20.28	22.49	21.48	21.90	21.34	21.11	21.19	21.97	21.63	21.79
23	20.07	19.79	19.94	20.59	20.29	20.44	22.95	22.49	22.77	21.19	20.82	20.98	21.81	21.58	21.76
24	20.04	19.85	19.95	20.97	20.50	20.76	23.15	22.94	23.06	21.40	20.95	21.18	21.80	21.60	21.72
25	20.05	19.72	19.90	21.29	20.97	21.09	23.33	23.10	23.22	21.35	21.13	21.23	21.81	21.60	21.74
26	20.16	19.83	19.97	21.93	21.24	21.54	23.59	23.33	23.47	21.36	21.16	21.25	21.79	21.36	21.54
27	20.12	19.60	19.88	22.23	21.84	22.01	23.66	23.59	23.63	21.32	20.66	20.99	21.95	21.60	21.79
28	19.96	19.81	19.88	22.28	22.19	22.25	23.64	23.33	23.50	21.11	20.68	20.91	22.28	21.86	22.05
29	20.09	19.75	19.95	22.20	22.10	22.15	23.33	22.74	23.07	21.49	21.11	21.24			
30	20.40	19.73	20.01	22.11	21.90	22.02	22.79	22.24	22.46	21.68	21.17	21.39			
31	20.90	20.10	20.60				22.24	21.98	22.10	21.46	21.08	21.29			
Mean	20.21	19.86	20.05	21.22	20.90	21.07	21.74	21.39	21.58	21.41	20.97	21.19	21.80	21.45	21.64
Max	20.90	20.24	20.60	22.53	22.47	22.50	23.66	23.59	23.63	21.99	21.66	21.85	22.28	21.86	22.05
Min	19.96	19.44	19.82	20.32	19.87	20.23	20.59	20.16	20.39	21.07	20.07	20.72	21.30	20.63	20.95

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	March			April			May			June			July		
1	22.16	21.85	21.97	23.00	22.76	22.89	23.20	22.83	23.05	23.97	23.56	23.71	24.07	23.70	23.87
2	22.12	21.20	21.85	22.97	22.79	22.89	23.23	23.01	23.11	23.90	23.63	23.76	23.88	23.60	23.75
3	21.78	21.18	21.44	23.18	22.84	22.99	23.18	23.01	23.11	23.86	23.56	23.68	23.86	23.54	23.69
4	22.09	21.65	21.91	22.95	22.24	22.61	23.21	23.00	23.12	23.72	23.52	23.63	23.88	23.56	23.67
5	22.16	22.01	22.09	22.88	22.68	22.77	23.35	23.06	23.19	23.68	23.28	23.52	23.74	23.58	23.68
6	22.17	21.79	21.99	23.23	22.74	22.92	23.43	22.99	23.25	23.53	23.25	23.41	23.75	23.58	23.70
7	22.25	22.04	22.15	23.63	23.10	23.32	23.47	23.03	23.25	23.48	23.25	23.36	23.83	23.58	23.70
8	22.27	22.04	22.15	24.07	23.57	23.75	23.40	22.97	23.25	23.46	23.12	23.31	23.81	23.55	23.65
9	22.15	21.83	22.04	24.24	24.07	24.17	23.45	22.95	23.19	23.59	23.17	23.39	23.74	23.47	23.60
10	22.28	22.13	22.18	24.57	24.24	24.36	23.51	23.07	23.31	23.78	23.30	23.56	23.68	23.44	23.57
11	22.34	22.11	22.23	24.57	24.44	24.52	23.85	23.42	23.61	23.76	23.64	23.70	23.55	23.39	23.48
12	22.26	21.38	21.87	24.54	24.27	24.41	24.24	23.60	23.80	23.97	23.59	23.81	23.62	23.33	23.43
13	22.33	22.07	22.21	24.32	23.76	24.01	24.10	23.67	23.81	24.05	23.64	23.79	23.62	23.24	23.41
14	22.47	22.17	22.30	23.84	22.51	23.18	24.23	23.77	23.91	24.09	23.81	23.95	23.46	23.23	23.35
15	22.54	22.15	22.28	23.16	22.53	22.84	24.73	24.23	24.51	24.09	23.81	24.00	23.61	23.11	23.34
16	22.51	21.71	22.18	23.28	23.04	23.16	25.02	24.73	24.88	24.16	23.85	24.00	23.47	23.32	23.43
17	22.78	22.08	22.41	23.20	22.96	23.08	25.38	25.02	25.21	24.07	23.78	23.96	23.65	23.30	23.49
18	22.97	22.74	22.88	23.09	22.87	23.00	25.48	25.33	25.42	24.15	23.77	23.93	23.88	23.47	23.69
19	22.94	22.38	22.60	23.17	23.00	23.07	25.51	25.36	25.46	24.08	23.77	23.89	23.97	23.81	23.92
20	22.59	22.41	22.51	23.19	23.00	23.10	25.40	24.89	25.16	23.97	23.72	23.86	24.03	23.88	23.98
21	22.66	22.42	22.53	23.20	23.05	23.13	24.92	24.45	24.68	23.91	23.68	23.80	24.06	23.95	24.01
22	22.55	22.33	22.42	23.23	22.83	23.06	24.51	24.22	24.34	23.91	23.66	23.79	24.05	23.91	23.99
23	22.45	21.89	22.20	23.29	23.04	23.15	24.31	24.09	24.20	23.97	23.58	23.81	24.01	23.58	23.94
24	22.43	22.16	22.26	23.44	23.09	23.25	24.17	23.97	24.09	23.90	23.56	23.74	24.12	23.58	23.89
25	22.24	21.84	22.11	23.17	22.99	23.08	24.16	23.86	23.97	24.08	23.69	23.90	24.05	23.93	23.99
26	22.48	22.16	22.32	23.40	23.06	23.22	23.97	23.62	23.83	24.16	23.86	24.01	24.14	23.91	24.02
27	22.69	22.10	22.41	23.67	23.20	23.43	24.03	23.61	23.80	24.30	23.85	24.08	24.11	23.87	23.99
28	22.38	22.13	22.26	23.49	23.02	23.20	---	---	23.71	24.18	23.95	24.06	24.03	23.78	23.91
29	22.62	22.01	22.28	23.26	22.71	23.03	23.73	23.57	23.67	24.12	23.86	23.98	24.04	23.86	23.95
30	22.89	22.55	22.71	23.14	22.49	22.85	23.84	23.57	23.68	24.06	23.82	23.93	24.11	23.85	23.97
31	23.04	22.86	22.95				23.82	23.57	23.67				24.09	23.87	23.98
Mean	22.44	22.04	22.25	23.48	23.10	23.28			23.91	23.93	23.62	23.78	23.87	23.61	23.74
Max	23.04	22.86	22.95	24.57	24.44	24.52			25.46	24.30	23.95	24.08	24.14	23.95	24.02
Min	21.78	21.18	21.44	22.88	22.24	22.61			23.05	23.46	23.12	23.31	23.46	23.11	23.34

Day	Max	Min	Mean	Max	Min	Mean
	August			September		
1	24.10	23.73	23.93	23.43	23.13	23.28
2	23.96	23.86	23.92	23.40	22.99	23.23
3	24.07	23.92	24.00	23.34	23.01	23.17
4	24.15	23.93	24.01	23.27	23.03	23.14
5	24.09	23.98	24.04	23.20	23.00	23.10
6	24.19	23.94	24.07	23.18	22.87	23.02
7	24.17	23.98	24.08	23.06	22.85	22.95
8	24.20	23.94	24.04	23.05	22.92	22.99
9	24.08	23.88	23.98	23.15	22.89	23.03
10	24.10	23.81	23.96	23.17	22.94	23.05
11	24.04	23.70	23.86	23.20	22.85	22.99
12	24.03	23.66	23.80	23.11	22.69	22.89
13	23.87	23.71	23.80	22.89	22.57	22.75
14	23.89	23.66	23.79	22.96	22.73	22.87
15	23.85	23.67	23.78	22.97	22.77	22.87
16	23.94	23.63	23.79	23.16	22.78	22.87
17	23.92	23.54	23.73	23.17	22.80	22.93
18	23.87	23.56	23.72	22.99	22.80	22.88
19	23.87	23.51	23.66	22.96	22.70	22.85
20	23.95	23.53	23.70	22.93	22.74	22.85
21	23.84	23.53	23.66	22.81	22.64	22.75
22	23.73	23.44	23.60	22.71	22.50	22.61
23	23.63	23.44	23.55	22.66	22.44	22.58
24	23.53	23.38	23.49	22.62	22.46	22.54
25	23.62	23.25	23.40	22.56	22.37	22.49
26	23.62	23.26	23.39	22.49	22.34	22.43
27	23.37	23.25	23.31	22.43	22.27	22.38
28	23.59	23.17	23.32	22.37	22.22	22.30
29	23.55	23.17	23.31	22.30	22.11	22.23
30	23.44	23.14	23.27	22.32	22.14	22.23
31	23.39	23.11	23.24			
Mean	23.86	23.59	23.72	22.93	22.69	22.81
Max	24.20	23.98	24.08	23.43	23.13	23.28
Min	23.37	23.11	23.24	22.30	22.11	22.23

Water-Data Report 2014
08022500 Sabine River at Logansport, LA -- Continued





USGS Water-Year Summary 2014

08023080 Bayou Grand Cane near Stanley, LA

LOCATION - Lat 31°57'45.2", long 93°56'27.5" referenced to North American Datum of 1927, in SW 1/4 SE 1/4 sec.6, T.11 N., R.15 W., DeSoto Parish, LA, Hydrologic Unit 12010004, near center of span on downstream side of bridge on U.S. Highway 84, 2.8 mi upstream from Bayou Castor, 2.9 mi west of Stanley, and 3.2 mi east of Logansport.

DRAINAGE AREA - 72.5 mi².

U.S. Department of the Interior
U.S. Geological Survey

Suggested citation: U.S. Geological Survey, 2015, National Water Information System data available on the World Wide Web (USGS Water Data for the Nation), accessed [March 3, 2015], at URL http://nwis.waterdata.usgs.gov/nwis/wys_rpt?dd_parm_cds=002_00060&adr_begin_date=2013-10-01&adr_end_date=2014-09-30&site_no=08023080&agency_cd=USGS

Water-Data Report 2014
 08023080 Bayou Grand Cane near Stanley, LA -- Continued

**DISCHARGE, CUBIC FEET PER SECOND
 YEAR 2013-10-01 to 2014-09-30
 DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	2013	2013	2013	2014	2014	2014	2014	2014	2014	2014	2014	2014
1	5.8	297	27	12	0.70	21	37	7.9	5.7	19	2.9	0.11
2	3.9	175	20	10	1.2	12	27	5.7	5.1	12	2.2	0.21
3	2.2	35	15	6.6	8.1	10	15	4.4	6.3	8.5	2.0	0.30
4	1.5	16	12	5.1	33	20	9.3	3.7	4.6	6.3	1.8	0.21
5	1.2	8.4	10	4.5	85	29	4.6	3.3	3.1	5.0	1.8	0.19
6	1.1	5.9	13	3.3	80	22	40	2.8	2.4	4.1	1.5	0.18
7	0.93	5.4	16	2.6	43	11	476	2.4	2.2	3.4	1.3	0.18
8	0.80	4.8	25	2.4	37	10	916	2.2	2.0	3.0	1.1	0.17
9	1.4	4.5	26	9.2	39	9.1	402	4.8	2.0	2.6	0.94	0.16
10	1.2	3.8	31	66	38	11	75	24	136	2.2	0.73	0.15
11	1.0	3.3	42	126	34	24	42	22	302	1.7	0.71	0.13
12	1.0	2.8	34	70	49	18	29	9.6	102	1.6	0.79	0.12
13	7.6	3.1	28	46	132	7.2	22	14	24	1.4	0.71	0.14
14	7.0	3.1	227	35	121	3.1	19	67	14	1.2	0.69	0.13
15	3.7	4.8	346	30	64	3.7	34	105	11	2.7	0.65	0.12
16	65	4.4	182	26	43	170	57	52	7.6	2.2	0.59	0.12
17	177	3.7	54	12	34	306	33	22	5.8	1.8	0.54	0.11
18	81	3.1	34	6.1	30	133	20	13	5.9	123	0.48	0.10
19	19	2.6	26	4.0	29	53	16	8.8	4.3	179	0.50	0.10
20	8.1	2.3	19	2.9	28	35	14	6.6	3.6	44	0.52	0.09
21	5.6	2.2	166	2.3	40	27	12	5.1	3.2	14	0.51	0.08
22	4.5	18	1,920	2.0	72	14	16	4.1	2.9	7.4	0.48	0.07
23	3.8	160	1,530	1.6	41	9.0	17	3.4	2.6	5.2	0.44	0.06
24	3.3	148	507	1.3	31	6.2	17	2.9	23	3.4	0.41	0.05
25	5.2	83	99	1.2	27	4.2	13	2.6	491	2.6	0.39	0.04
26	5.6	350	56	3.1	24	2.9	11	2.4	1,070	2.3	0.26	0.03
27	4.5	445	41	2.1	31	2.4	7.9	2.9	274	2.0	0.17	0.03
28	3.7	308	34	1.3	30	7.4	9.0	8.5	120	1.7	0.13	0.02
29	3.1	69	31	1.1		73	9.2	11	47	1.8	0.10	0.02
30	2.4	37	28	0.83		184	10	11	33	1.5	0.10	0.03
31	94		19	0.71		74		7.9		1.6	0.10	
Total	526	2,209	5,618	497	1,225	1,312	2,410	443	2,716	468	25.5	3.45
Mean	17.0	73.6	181	16.0	43.8	42.3	80.3	14.3	90.5	15.1	.82	.11
Max	177	445	1,920	126	132	306	916	105	1,070	179	2.90	.30
Min	.80	2.20	10.0	.71	.70	2.40	4.60	2.20	2.00	1.20	.10	.020
Ac-ft	1,044	4,382	11,140	986	2,430	2,602	4,780	879	5,387	929	50.7	6.84

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2014, BY WATER YEAR
 (WY)**

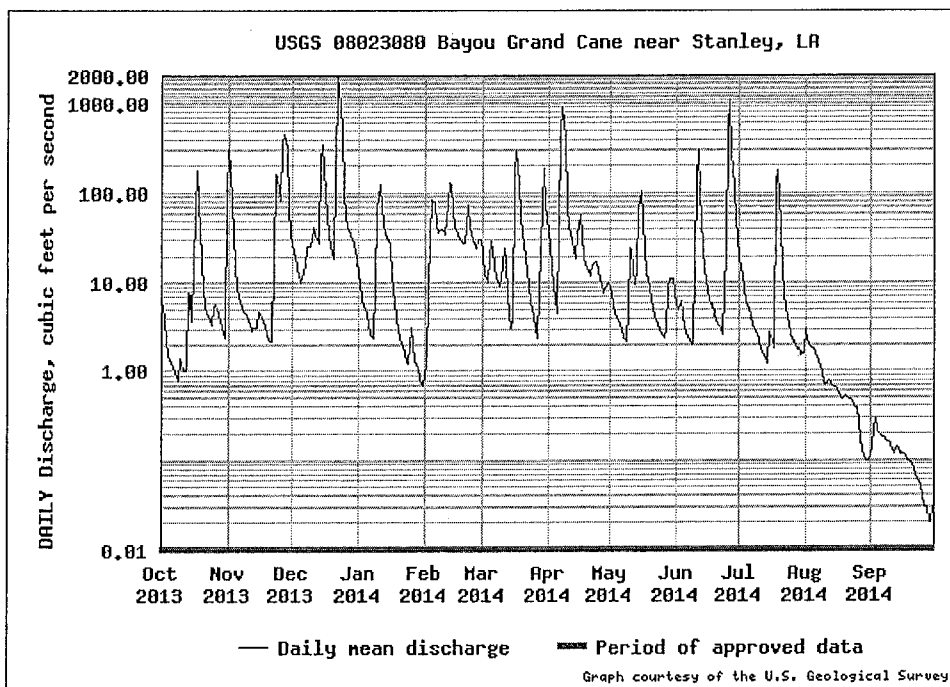
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	32.0	34.3	113	142	186	134	94.6	68.3	62.5	15.8	5.59	4.90
Max	448	220	463	704	514	555	451	389	433	291	125	50.4
(WY)	(2010)	(1987)	(2002)	(1999)	(1987)	(2001)	(1991)	(1990)	(1989)	(1989)	(1997)	(2001)
Min	.000	.000	.000	.39	1.94	.28	.015	.036	.000	.000	.000	.000
(WY)	(1991)	(1996)	(2011)	(1981)	(1996)	(2011)	(2011)	(2011)	(2011)	(1984)	(1985)	(1982)

Water-Data Report 2014

08023080 Bayou Grand Cane near Stanley, LA -- Continued

SUMMARY STATISTICS

	Water Year 2014		Water Years 1981 - 2014	
Annual total	17,450			
Annual mean	47.8		73.9	
Highest annual mean			155.9	1989
Lowest annual mean			0.219	2011
Highest daily mean	1,920	Dec 22	6,230	May 18, 1989
Lowest daily mean	0.020	Sep 28	0.0	Oct 01, 1980
Annual 7-day minimum	0.031	Sep 24	0.0	Sep 13, 1990
Maximum peak flow	3,030	Dec 22	9,740	Jan 29, 1999
Maximum peak stage	12.29	Dec 22	15.48	Jan 29, 1999
Annual runoff (cfsm)	0.660		1.02	
Annual runoff (inches)	8.95		13.8	
10 percent exceeds	96.0		141.1	
50 percent exceeds	6.60		3.90	
90 percent exceeds	0.354		0.0	





USGS Water-Year Summary 2014

08023400 Bayou San Patricio near Benson, LA

LOCATION - Lat 31°52'30", long 93°39'30" referenced to North American Datum of 1927, in sec.38, T.10 N., R.13 W., DeSoto Parish, LA, Hydrologic Unit 12010004, near right bank on downstream side of bridge on State Highway 512, 2.2 mi east of Benson, and 3.9 mi upstream from Bear Creek.

DRAINAGE AREA - 80.2 mi².

U.S. Department of the Interior
U.S. Geological Survey

Suggested citation: U.S. Geological Survey, 2015, National Water Information System data available on the World Wide Web (USGS Water Data for the Nation), accessed [March 4, 2015], at URL http://nwis.waterdata.usgs.gov/nwis/wys_rpt?dd_parm_cds=002_00060&adr_begin_date=2013-10-01&adr_end_date=2014-09-30&site_no=08023400&agency_cd=USGS

Water-Data Report 2014
 08023400 Bayou San Patricio near Benson, LA -- Continued

DISCHARGE, CUBIC FEET PER SECOND
YEAR 2013-10-01 to 2014-09-30
DAILY MEAN VALUES
 [e, Value has been estimated.]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	2013	2013	2013	2014	2014	2014	2014	2014	2014	2014	2014	2014
1	13	1,140	41	24	12	19	66	18	39	e8.3	9.0	0.14
2	6.3	460	35	22	18	18	46	16	51	e6.7	13	0.81
3	3.2	52	32	19	143	19	38	15	41	e29	6.2	1.2
4	3.1	25	30	18	151	20	32	14	22	e12	3.8	1.2
5	2.9	18	27	18	403	18	26	12	e12	e5.7	2.6	0.69
6	4.3	17	30	20	217	18	293	11	e9.0	e4.2	1.8	1.1
7	14	15	57	20	74	20	1,900	11	e7.7	e3.1	1.2	3.1
8	8.1	14	58	19	63	21	1,130	11	e6.4	e2.3	0.84	9.8
9	5.2	12	36	19	69	18	372	208	e5.2	e1.7	0.62	4.4
10	3.9	9.9	31	87	57	18	97	359	e373	e1.4	0.48	2.1
11	3.1	8.8	58	103	49	21	61	67	550	e1.2	0.43	1.0
12	2.6	6.9	39	57	72	19	46	35	213	0.94	1.4	0.59
13	7.5	6.5	32	38	125	15	40	140	46	0.82	4.5	0.36
14	19	7.2	230	41	85	13	37	417	31	0.75	2.6	0.22
15	6.8	9.7	355	36	57	14	38	521	21	0.77	1.4	0.16
16	10	9.7	112	26	38	267	41	175	15	2.1	0.96	0.61
17	98	11	59	21	30	285	33	51	15	1.7	0.68	4.0
18	27	12	42	18	26	79	28	34	e14	17	0.44	4.9
19	13	14	33	17	23	47	26	26	e9.7	36	0.30	0.81
20	8.1	15	29	16	23	32	23	20	e7.7	9.3	0.27	0.45
21	5.3	14	129	14	45	25	21	17	e6.2	3.3	0.52	0.24
22	3.3	88	1,230	13	43	19	88	16	e5.5	1.9	0.37	0.34
23	2.9	417	1,020	15	27	20	95	14	e5.0	1.4	0.60	0.47
24	2.8	297	315	14	21	22	37	12	e200	1.1	0.86	0.34
25	2.8	150	81	13	19	18	24	11	285	0.91	0.68	0.25
26	3.1	657	59	13	20	16	20	9.0	51	0.80	0.54	0.18
27	3.4	743	45	13	25	21	18	15	40	0.70	0.41	0.12
28	4.3	406	39	12	23	167	22	300	28	0.64	0.28	0.08
29	4.6	89	35	13		385	32	291	18	0.58	0.18	0.05
30	4.8	55	30	13		524	25	61	e11	0.59	0.13	0.03
31	427		26	12		274		45		1.00	0.09	
Total	723	4,780	4,375	784	1,958	2,472	4,755	2,952	2,138	158	57.2	39.7
Mean	23.3	159	141	25.3	69.9	79.7	159	95.2	71.3	5.09	1.84	1.32
Max	427	1,140	1,230	103	403	524	1,900	521	550	36.0	13.0	9.80
Min	2.60	6.50	26.0	12.0	12.0	13.0	18.0	9.00	5.00	.58	.090	.030
Ac-ft	1,435	9,480	8,678	1,555	3,884	4,903	9,431	5,855	4,241	313	113	78.8

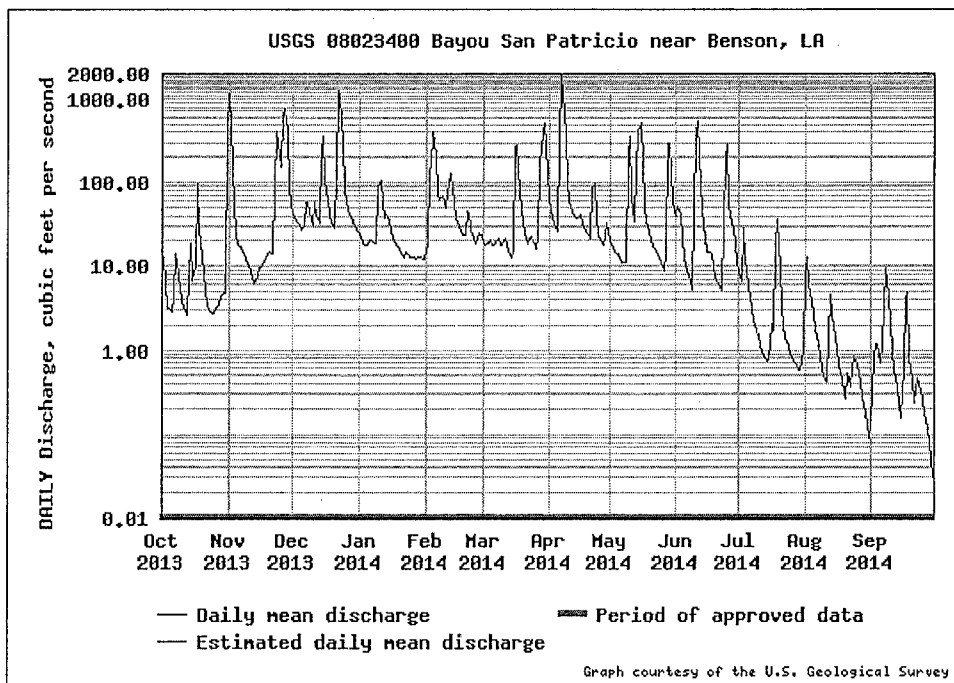
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2014, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	24.5	46.8	129	170	203	151	114	90.2	56.7	18.4	4.74	11.9
Max	250	305	498	971	592	595	544	530	574	288	64.7	91.2
(WY)	(2010)	(1987)	(2002)	(1999)	(1983)	(2001)	(1991)	(1983)	(1989)	(1989)	(1991)	(2012)
Min	.000	.000	.000	.18	1.42	.55	.20	.11	.000	.000	.000	.000
(WY)	(1981)	(1981)	(1981)	(1981)	(2011)	(2011)	(2011)	(2001)	(1988)	(1978)	(1980)	(1980)

Water-Data Report 2014
 08023400 Bayou San Patricio near Benson, LA -- Continued

SUMMARY STATISTICS

	Water Year 2014		Water Years 1978 - 2014	
Annual total	25,190			
Annual mean	69.0		84.2	
Highest annual mean			190.3	1989
Lowest annual mean			0.868	2011
Highest daily mean	1,900	Apr 07	10,700	May 18, 1989
Lowest daily mean	0.030	Sep 30	0.0	Oct 01, 1977
Annual 7-day minimum	0.15	Sep 24	0.0	Jun 28, 2012
Maximum peak flow	2,160	Dec 22	16,700	May 18, 1989
Maximum peak stage	16.23	Dec 22	21.19	May 18, 1989
Annual runoff (cfsm)	0.861		1.05	
Annual runoff (inches)	11.7		14.3	
10 percent exceeds	170.2		161.0	
50 percent exceeds	18.0		6.80	
90 percent exceeds	0.680		0.0	





USGS Water-Year Summary 2014

08025350 Toledo Bend Reservoir near Burkeville, TX

LOCATION - Lat 31°11'46", long 93°34'19" referenced to North American Datum of 1927, Sabine Parish, LA, Hydrologic Unit 12010004, prior to Sept. 20, 2007, in powerhouse at right end of Toledo Bend Dam on Sabine River, 15 mi northeast of Burkeville and at mile 156.5.

DRAINAGE AREA - 7,178 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD - Oct. 1966 to current year (reservoir contents). PERIOD OF RECORD, Water-Quality.--
 CHEMICAL DATA: May 1968 to July 1976. BIOCHEMICAL DATA: May 1968 to July 1976. BIOLOGICAL DATA: Dec. 1975 to July 1976. PESTICIDE DATA: Dec. 1975 to July 1976.

GAGE - Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Sabine River Authority). Prior to July 20, 1967, nonrecording gage at powerhouse 1.6 mi south of present site and at same datum. July 20, 1967, to June 30, 1973, recording gage at same site and datum. July 1, 1973, to Sept. 20, 2007, recording gage at powerhouse 1.6 mi south of present site and at same datum. Satellite telemeter at station.

COOPERATION - Capacity table furnished by the Sabine River Authority.

REMARKS - For 2014 water year, records good. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically. The reservoir is formed by a rolled earthfill dam. Closure of embankment completed and deliberate impoundment began Oct. 3, 1966. The reservoir is operated for hydro-electric power generation and water conservation. Releases during high inflow periods are controlled by eleven 40 x 28-foot tainter gates. An 8.33 x 12-foot gated conduit through the dam is used for low-flow releases. Two additional 20-inch-diameter conduits, that bypass the larger conduit, may also be used for low-flow releases. Water for turbines is admitted through four 16.75 x 29-foot penstocks and controlled by vertically operated caterpillar-type gates. The dam is owned by the Sabine River Authority. The capacity table is based on U.S. Geological Survey topographic maps. There are many diversions above station for oil field operations and municipal supply. Conservation pool storage is 4,472,900 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	185.0
Design flood.....	175.3
Top of gates.....	173.0
Top of power drawdown storage (top of conservation pool).....	172.0
Top of power head storage.....	162.2
Crest of spillway (controlled).....	145.0
Lowest gated outlet (invert).....	100.0

EXTREMES FOR PERIOD OF RECORD - Maximum contents, 4,840,000 acre-ft, May 18, 1989, elevation, 173.95 ft; minimum since initial filling of reservoir, 2,692,000 acre-ft, Sept. 27, 2011, elevation, 160.47 ft.

U.S. Department of the Interior
 U.S. Geological Survey

Suggested citation: U.S. Geological Survey, 2015, National Water Information System data available on the World Wide Web (USGS Water Data for the Nation), accessed [March 3, 2015], at URL http://nwis.waterdata.usgs.gov/nwis/wys_rpt?dd_parm_cds=001_00054&adr_begin_date=2013-10-01&adr_end_date=2014-09-30&site_no=08025350&agency_cd=USGS

Water-Data Report 2014

08025350 Toledo Bend Reservoir near Burkeville, TX -- Continued

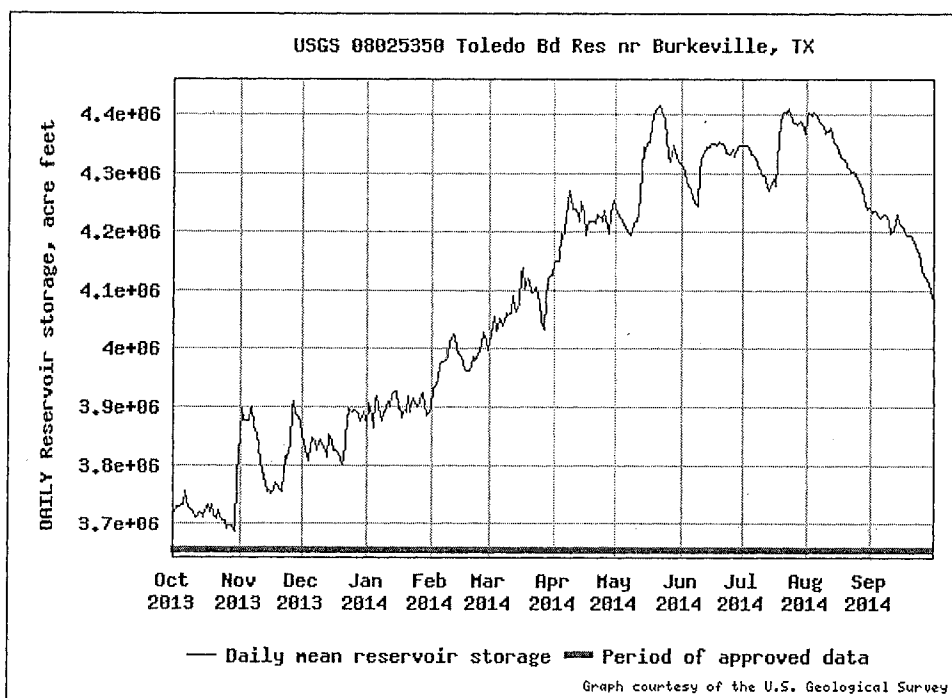
**RESERVOIR STORAGE, ACRE FEET
YEAR 2013-10-01 to 2014-09-30
DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
	2013	2013	2013	2014	2014	2014	2014	2014
1	3,719,000	3,853,000	3,852,000	3,868,000	3,899,000	4,010,000	4,145,000	4,233,000
2	3,727,000	3,897,000	3,839,000	3,907,000	3,934,000	4,026,000	4,150,000	4,226,000
3	3,728,000	3,878,000	3,815,000	3,882,000	3,936,000	4,055,000	4,148,000	4,223,000
4	3,727,000	3,878,000	3,807,000	3,866,000	3,946,000	4,031,000	4,196,000	4,217,000
5	3,732,000	3,878,000	3,832,000	3,913,000	3,973,000	4,034,000	4,189,000	4,206,000
6	3,755,000	3,893,000	3,847,000	3,918,000	3,977,000	4,050,000	4,204,000	4,201,000
7	3,737,000	3,901,000	3,840,000	3,883,000	3,976,000	4,040,000	4,247,000	4,198,000
8	3,728,000	3,869,000	3,827,000	3,877,000	3,980,000	4,047,000	4,270,000	4,195,000
9	3,722,000	3,854,000	3,838,000	3,890,000	3,987,000	4,061,000	4,259,000	4,211,000
10	3,719,000	3,833,000	3,843,000	3,891,000	4,010,000	4,058,000	4,238,000	4,218,000
11	3,711,000	3,802,000	3,829,000	3,908,000	4,024,000	4,059,000	4,237,000	4,218,000
12	3,711,000	3,790,000	3,826,000	3,899,000	4,023,000	4,090,000	4,230,000	4,229,000
13	3,719,000	3,767,000	3,815,000	3,919,000	3,999,000	4,068,000	4,216,000	4,304,000
14	3,716,000	3,754,000	3,853,000	3,923,000	3,992,000	4,063,000	4,249,000	4,346,000
15	3,711,000	3,757,000	3,840,000	3,926,000	3,986,000	4,074,000	4,232,000	4,339,000
16	3,724,000	3,751,000	3,826,000	3,897,000	3,975,000	4,129,000	4,195,000	4,352,000
17	3,730,000	3,758,000	3,825,000	3,900,000	3,966,000	4,137,000	4,207,000	4,353,000
18	3,719,000	3,771,000	3,820,000	3,882,000	3,964,000	4,103,000	4,218,000	4,386,000
19	3,731,000	3,766,000	3,807,000	3,894,000	3,964,000	4,121,000	4,216,000	4,396,000
20	3,714,000	3,760,000	3,802,000	3,892,000	3,971,000	4,116,000	4,217,000	4,406,000
21	3,709,000	3,756,000	3,809,000	3,918,000	3,985,000	4,097,000	4,215,000	4,414,000
22	3,722,000	3,785,000	3,876,000	3,892,000	3,981,000	4,095,000	4,228,000	4,417,000
23	3,711,000	3,814,000	3,897,000	3,914,000	3,990,000	4,106,000	4,223,000	4,406,000
24	3,705,000	3,812,000	3,895,000	3,905,000	3,997,000	4,090,000	4,216,000	4,391,000
25	3,706,000	3,834,000	3,892,000	3,900,000	4,004,000	4,082,000	4,234,000	4,360,000
26	3,691,000	3,897,000	3,893,000	3,899,000	4,028,000	4,045,000	4,219,000	4,329,000
27	3,696,000	3,910,000	3,890,000	3,920,000	4,014,000	4,035,000	4,196,000	4,320,000
28	3,695,000	3,889,000	3,885,000	3,925,000	3,998,000	4,080,000	4,228,000	4,347,000
29	3,687,000	3,883,000	3,876,000	3,902,000		4,120,000	4,244,000	4,340,000
30	3,685,000	3,871,000	3,890,000	3,886,000		4,123,000	4,254,000	4,328,000
31	3,782,000		3,879,000	3,892,000		4,127,000		4,321,000
Total	115,300,000	114,900,000	119,300,000	120,900,000	111,500,000	126,400,000	126,500,000	133,399,999
Mean	3,718,000	3,829,000	3,847,000	3,900,000	3,981,000	4,077,000	4,217,000	4,304,000
Max	3,782,000	3,910,000	3,897,000	3,926,000	4,028,000	4,137,000	4,270,000	4,417,000
Min	3,685,000	3,751,000	3,802,000	3,866,000	3,899,000	4,010,000	4,145,000	4,195,000

Day	Jun	Jul	Aug	Sep
	2014	2014	2014	2014
1	4,317,000	4,349,000	4,395,000	4,233,000
2	4,310,000	4,349,000	4,403,000	4,236,000
3	4,305,000	4,347,000	4,398,000	4,235,000
4	4,286,000	4,345,000	4,403,000	4,227,000
5	4,278,000	4,333,000	4,402,000	4,224,000
6	4,272,000	4,333,000	4,395,000	4,226,000
7	4,260,000	4,326,000	4,386,000	4,228,000
8	4,249,000	4,316,000	4,384,000	4,226,000
9	4,245,000	4,312,000	4,381,000	4,213,000
10	4,302,000	4,301,000	4,370,000	4,198,000
11	4,323,000	4,296,000	4,373,000	4,203,000
12	4,331,000	4,291,000	4,378,000	4,214,000
13	4,346,000	4,277,000	4,368,000	4,230,000
14	4,345,000	4,271,000	4,353,000	4,214,000
15	4,346,000	4,284,000	4,349,000	4,210,000
16	4,350,000	4,292,000	4,336,000	4,203,000
17	4,351,000	4,280,000	4,331,000	4,197,000
18	4,349,000	4,361,000	4,328,000	4,193,000
19	4,350,000	4,387,000	4,324,000	4,193,000
20	4,355,000	4,401,000	4,312,000	4,187,000
21	4,351,000	4,404,000	4,309,000	4,185,000
22	4,349,000	4,403,000	4,304,000	4,176,000
23	4,336,000	4,409,000	4,304,000	4,162,000
24	4,336,000	4,402,000	4,297,000	4,148,000
25	4,334,000	4,388,000	4,294,000	4,135,000
26	4,341,000	4,385,000	4,285,000	4,127,000
27	4,330,000	4,384,000	4,273,000	4,119,000
28	4,335,000	4,387,000	4,255,000	4,109,000
29	4,349,000	4,389,000	4,246,000	4,101,000
30	4,349,000	4,378,000	4,238,000	4,086,000
--		4,369,000	4,241,000	
Total	129,700,000	134,700,000	134,400,000	125,599,999
Mean	4,323,000	4,347,000	4,336,000	4,188,000
Max	4,355,000	4,409,000	4,403,000	4,236,000
Min	4,245,000	4,271,000	4,238,000	4,086,000

Water-Data Report 2014

08025350 Toledo Bend Reservoir near Burkeville, TX -- Continued





USGS Water-Year Summary 2014

08025360 Sabine River at Toledo Bend Reservoir near Burkeville, TX

LOCATION - Lat 31°10'25", long 93°33'57" referenced to North American Datum of 1927, Newton County, TX, Hydrologic Unit 12010005, in powerhouse at right end of Toledo Bend Dam, 10 mi upstream from Sabine River near Burkeville gage and at mile 156.5.

DRAINAGE AREA - 7,178 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD - Oct. 1971 to current year. PERIOD OF RECORD, Water-Quality.-- CHEMICAL DATA: Oct. 1968 to Aug. 1986. BIOCHEMICAL DATA: Oct. 1968 to Aug. 1986. PESTICIDE DATA: Aug. 1970 to Feb. 1972. RADIOCHEMICAL DATA: Jan. 1981 to May 1981.

REVISED RECORDS - WRD TX-07: 1984, 1992, 1993, 2000, 2001, and 2002.

GAGE - Water-stage recorders. Datum of gage is NGVD of 1929 (levels by Sabine River Authority). Satellite telemeter at station.

REMARKS - For 2014 water year, records fair. Daily discharges are a combination of releases from various outlets at the dam. Discharges for releases through the turbines are computed using scroll case differential relations and operation logs. Tainter gate releases, low-flow sluiceway releases, bypass gate releases, and turbine leakages are based on discharge measurements and operation logs. Since installation of gage in Oct. 1971, at least 10% of contributing drainage area has been regulated. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically

U.S. Department of the Interior
U.S. Geological Survey

Suggested citation: U.S. Geological Survey, 2015, National Water Information System data available on the World Wide Web (USGS Water Data for the Nation), accessed [March 3, 2015], at URL http://nwis.waterdata.usgs.gov/nwis/wys_rpt?dd_parm_cds=001_00060&adr_begin_date=2013-10-01&adr_end_date=2014-09-30&site_no=08025360&agency_cd=USGS

Water-Data Report 2014

08025360 Sabine River at Toledo Bend Reservoir near Burkeville, TX -- Continued

**DISCHARGE, CUBIC FEET PER SECOND
YEAR 2013-10-01 to 2014-09-30
DAILY VALUES**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	254	7,630	232	3,020	15,000	14,700	14,800	7,630	240	7,140
2	---	---	257	7,620	7,390	7,520	15,100	14,300	14,900	297	220	265
3	---	---	258	7,650	7,440	7,530	15,100	6,640	10,000	301	228	264
4	---	---	258	7,670	7,420	7,540	6,790	234	4,800	303	220	263
5	---	---	258	7,630	7,440	7,530	299	224	264	300	230	265
6	---	---	258	7,660	7,400	7,540	302	224	265	298	236	264
7	---	---	258	7,700	7,510	7,600	291	229	266	310	233	263
8	---	---	258	7,750	7,530	7,650	297	227	262	300	233	261
9	---	---	258	14,900	7,540	10,700	6,870	225	2,690	293	224	261
10	---	---	258	15,400	14,700	15,100	7,740	233	2,720	301	236	263
11	---	---	746	---	---	15,300	6,460	230	2,280	304	230	263
12	---	---	259	15,500	6,940	10,500	7,630	227	2,760	292	226	261
13	---	---	721	7,160	236	2,530	7,180	225	2,520	299	232	261
14	---	---	259	289	219	259	7,740	235	3,980	7,300	235	4,010
15	---	---	741	291	229	260	7,720	7,500	7,600	7,460	6,990	7,150
16	---	---	259	304	219	261	7,640	7,470	7,550	7,410	7,000	7,210
17	---	---	746	292	230	259	7,700	7,490	7,580	7,340	256	6,560
18	---	---	260	294	220	264	7,680	7,510	7,580	308	237	267
19	---	---	756	309	224	266	7,680	7,510	7,600	295	236	265
20	---	---	260	289	234	264	7,680	236	7,240	298	226	262
21	---	---	736	290	230	262	296	228	265	298	232	263
22	---	---	791	302	236	265	7,850	232	4,160	292	228	263
23	---	---	801	302	236	263	7,420	7,230	7,340	304	224	265
24	---	---	260	299	233	262	14,800	7,270	13,100	304	234	267
25	---	---	801	299	237	266	14,900	14,500	14,700	299	225	263
26	---	---	260	7,050	243	4,080	14,800	14,600	14,700	294	236	265
27	---	---	801	15,300	6,790	10,700	14,800	14,600	14,700	299	231	264
28	---	---	260	15,300	15,000	15,100	14,800	14,600	14,700	301	229	265
29	---	---	822	15,300	14,700	15,000	14,800	7,400	12,200	296	223	902
30	---	---	260	15,000	14,700	14,800	7,530	7,360	7,440	640	235	806
31	---	---	806				7,550	7,350	7,450	289	237	262
Total			14,180			172,900	262,400	171,200	218,400	45,260	20,700	40,100
Mean			457			5,763	8,466	5,524	7,046	1,460	668	1,293
Max			822			15,300	15,100	14,700	14,900	7,630	7,000	7,210
Min			254			259	291	224	262	289	220	261
Ac-ft			28,130			342,900	520,599	339,600	433,200	89,760	41,060	79,540

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	288	224	259	305	231	261	299	231	262	306	235	270
2	301	224	264	296	227	262	336	219	264	301	215	260
3	294	232	262	308	235	267	351	223	259	304	229	265
4	309	232	265	301	237	265	317	231	264	323	226	266
5	298	226	261	297	232	261	297	220	259	313	221	260
6	298	232	262	297	224	262	319	226	263	311	218	265
7	294	227	261	297	223	263	7,380	235	263	325	229	279
8	293	230	259	289	231	263	14,300	6,910	10,100	372	269	299
9	291	229	261	299	230	263	14,300	14,000	14,100	347	241	284
10	303	230	263	291	229	262	14,400	9,490	13,600	330	257	292
11	298	235	263	309	227	262	14,400	14,100	14,300	331	246	296
12	7,590	239	5,390	298	230	264	14,400	14,100	14,300	346	262	296
13	7,620	6,980	7,400	299	222	262	14,500	14,100	14,300	336	223	284
14	7,610	7,020	7,360	308	229	261	14,400	10,800	13,100	335	229	269
15	7,530	7,080	7,370	295	232	261	14,400	245	8,080	304	216	261
16	7,580	7,220	7,410	325	223	262	348	268	304	14,100	228	4,420
17	7,500	227	6,950	6,860	240	3,800	340	247	301	6,810	214	1,200
18	---	---	210	6,880	6,540	6,730	346	245	302	6,990	224	2,160
19	---	---	202	6,900	6,560	6,690	362	261	304	14,000	216	4,440
20	---	---	202	6,790	6,600	6,710	373	255	309	14,000	213	4,620
21	---	---	202	6,780	6,650	6,720	367	260	312	14,000	220	4,640
22	---	---	202	6,790	6,610	6,720	371	264	311	13,900	215	6,580
23	---	---	202	6,790	6,630	6,720	348	262	308	14,000	233	7,660
24	---	---	232	6,820	6,650	6,730	356	261	309	14,100	223	8,820
25	---	---	232	6,790	6,620	6,710	349	244	306	14,100	13,800	14,000
26	305	220	263	6,790	6,610	6,680	352	251	306	14,100	459	13,900
27	305	223	264	6,770	223	2,370	352	261	307	14,300	225	8,880
28	310	220	263	301	230	262	338	253	303	14,200	214	8,280
--				297	227	260	350	240	302	14,000	217	4,720
--				302	223	260	325	231	281	14,100	219	8,230
--				287	228	259				14,100	222	4,290
Total			47,230	80,960	64,500	71,820	129,700	89,130	108,300	215,700	20,860	111,000
Mean			1,687	2,612	2,081	2,317	4,323	2,970	3,609	6,958	673	3,580
Max			7,410	6,899	6,650	6,730	14,499	14,099	14,299	14,299	13,800	14,000
Min			202	287	222	259	297	219	259	301	213	260
Ac-ft			93,690	160,600	127,900	142,500	257,199	176,800	214,800	427,800	41,370	220,100

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	14,100	226	3,670	14,400	215	3,160	274	205	241	14,000	193	1,520
2	14,100	219	8,180	14,300	212	2,560	270	213	242	14,100	209	2,530
3	14,100	226	10,000	14,300	218	2,560	281	204	242	14,000	204	1,950
4	14,200	221	7,210	280	211	247	267	201	240	14,200	208	1,430
5	13,300	1,210	7,580	278	214	244	14,700	210	1,960	14,100	207	1,930
6	6,820	221	3,510	287	201	244	271	205	240	269	201	239
7	13,300	221	6,200	14,200	205	2,600	13,900	203	1,930	8,690	201	832
8	277	212	246	14,000	212	2,530	13,900	208	1,940	3,980	202	239
9	14,500	221	6,390	14,000	215	1,950	14,000	200	3,020	5,620	192	1,110
10	14,200	225	4,870	14,100	205	3,100	13,800	212	2,770	4,280	211	239
11	14,100	216	4,240	14,100	207	2,550	14,000	208	3,080	754	664	239
12	14,100	214	4,840	14,100	218	2,400	14,000	210	3,090	4,640	210	239
13	317	219	258	14,300	207	2,550	14,000	208	2,530	7,120	205	1,080
14	344	238	292	14,100	207	3,210	275	202	237	260	212	233
15	353	257	296	294	214	244	13,900	202	1,380	7,040	200	517
16	14,000	215	1,400	289	212	243	13,700	211	1,850	7,060	199	1,770
17	14,000	214	3,240	278	205	245	13,600	204	1,830	7,060	194	2,170
18	302	204	249	325	215	268	14,100	202	3,110	6,870	190	1,060
19	300	214	256	322	247	288	14,000	198	3,090	326	199	249
20	14,000	215	1,990	339	240	290	14,200	201	1,970	7,090	216	3,500
21	13,700	211	1,890	14,100	217	2,640	13,900	214	3,070	6,900	215	3,790
22	288	215	247	264	209	241	276	197	240	7,060	229	4,420
23	14,000	220	3,120	---	---	195	14,200	209	1,920	7,190	235	3,920
24	14,000	218	3,100	---	---	205	14,000	213	1,810	7,070	220	3,060
25	14,000	206	1,410	278	213	242	14,200	208	4,260	7,260	217	2,820
26	282	215	248	289	213	241	14,300	208	3,680	7,180	196	3,320
27	14,100	219	3,700	281	217	243	14,100	209	3,410	7,180	195	3,400
28	318	213	248	264	205	241	14,100	202	2,530	7,310	233	3,780
29	339	225	282	278	213	241	14,100	206	2,530	7,180	240	4,210
30	14,100	215	2,010	277	211	244	275	206	238	7,070	238	4,450
--				273	205	242	281	205	239			
Total	275,800	7,564	91,170			36,460	311,200	6,384	58,919	212,900	6,735	60,250
Mean	9,195	252	3,039			1,176	10,040	206	1,901	7,095	225	2,008
Max	14,499	1,210	10,000			3,210	14,700	214	4,260	14,199	664	4,450
Min	277	204	246			195	267	197	237	260	190	233
Ac-ft	547,100	15,000	180,800			72,310	617,200	12,659	116,900	422,200	13,360	119,500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2014, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,334	2,607	5,078	8,003	8,633	9,864	7,216	6,309	4,833	4,409	3,552	3,057
Max	7,567	23,410	17,720	27,680	23,850	44,240	20,340	22,170	24,960	18,790	6,924	11,780
(WY)	(2010)	(2010)	(1975)	(1974)	(1999)	(2001)	(2008)	(1991)	(1989)	(1989)	(2007)	(2001)
Min	59.0	50.7	74.5	90.0	243	231	197	263	508	493	470	424
(WY)	(1976)	(1976)	(1976)	(1978)	(2009)	(1972)	(2007)	(2013)	(1996)	(1996)	(1996)	(1983)

Water-Data Report 2014

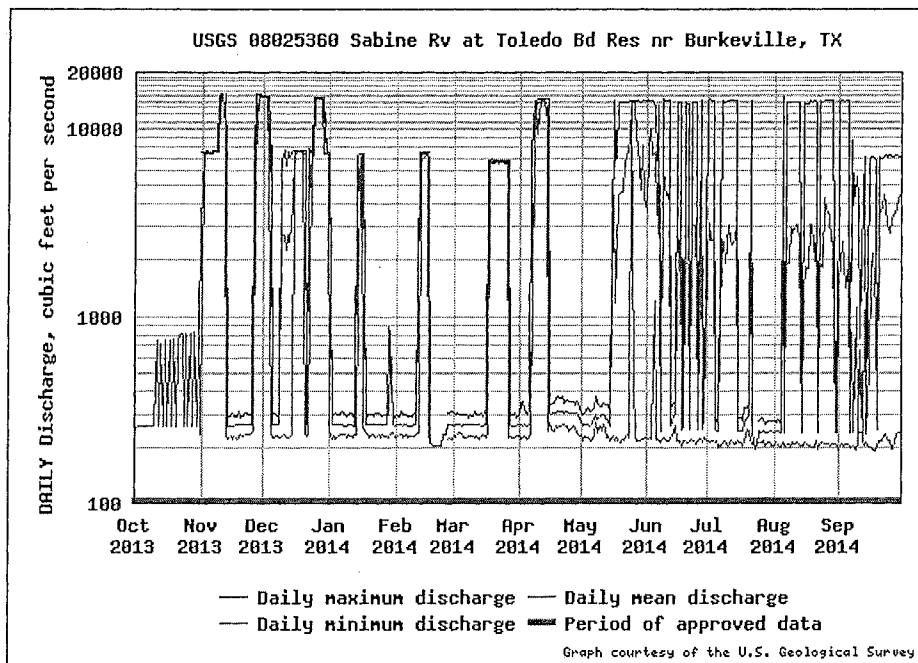
08025360 Sabine River at Toledo Bend Reservoir near Burkeville, TX -- Continued

SUMMARY STATISTICS

	Water Year 2014		Water Years 1972 - 2014	
Annual total	1,031,000			
Annual mean	2,824		5,392	
Highest annual mean			10,370	1995
Lowest annual mean			516.7	1996
Highest daily mean	15,300	Nov 11	117,000	Jan 31, 1999
Lowest daily mean	195.0	Jul 23	30.0	Oct 01, 1972
Annual 7-day minimum	207.4	Feb 18	34.0	Nov 21, 1975
Maximum peak flow			117,000 ^{a,b}	Jan 31, 1999
Maximum peak stage				
Annual runoff (cfsm)	0.393		0.751	
Annual runoff (inches)	5.34		10.2	
10 percent exceeds	7,600		14,700	
50 percent exceeds	311.0		3,080	
90 percent exceeds	244.0		174.0	

^a Discharge is a Maximum Daily Average

^b Discharge affected by Regulation or Diversion





USGS Water-Year Summary 2014

08025500 Bayou Toro near Toro, LA

LOCATION - Lat 31°18'25", long 93°30'56" referenced to North American Datum of 1927, in SW 1/4 sec.20, T.4 N., R.11 W., Sabine Parish, LA, Hydrologic Unit 12010005, near right bank on downstream side of bridge on state highway 473, 0.2 mi upstream from Hamby Creek, 2.5 mi northeast of Toro, and 7.8 mi west of Hornbeck.

DRAINAGE AREA - 148 mi².

U.S. Department of the Interior
U.S. Geological Survey

Suggested citation: U.S. Geological Survey, 2015, National Water Information System data available on the World Wide Web (USGS Water Data for the Nation), accessed [March 4, 2015], at URL http://nwis.waterdata.usgs.gov/nwis/wys_rpt?dd_parm_cds=001_00060&adr_begin_date=2013-10-01&adr_end_date=2014-09-30&site_no=08025500&agency_cd=USGS

Water-Data Report 2014
 08025500 Bayou Toro near Toro, LA -- Continued

DISCHARGE, CUBIC FEET PER SECOND
YEAR 2013-10-01 to 2014-09-30
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	2013	2013	2013	2014	2014	2014	2014	2014	2014	2014	2014	2014
1	2.0	1,810	62	32	31	80	137	20	247	20	16	6.3
2	4.2	649	50	30	45	66	100	18	119	15	18	9.1
3	4.3	120	43	29	506	59	82	17	100	13	19	14
4	3.7	67	37	26	504	58	149	16	55	12	18	14
5	6.1	47	33	26	870	54	684	14	37	10	20	9.4
6	8.2	39	31	27	432	51	302	14	28	8.6	18	8.1
7	8.5	29	30	28	216	61	974	13	23	7.8	17	7.4
8	11	25	29	27	164	67	839	12	19	7.1	14	6.8
9	8.8	23	28	26	145	56	280	12	29	6.8	12	6.3
10	5.8	20	27	25	125	51	167	12	1,470	6.4	11	6.5
11	3.1	18	26	27	195	50	117	12	1,240	5.2	11	6.9
12	3.5	17	25	28	247	47	90	55	293	4.5	12	22
13	13	16	24	144	221	40	73	582	129	4.0	13	22
14	31	15	89	236	163	34	76	297	90	6.5	15	8.7
15	24	15	186	127	121	31	312	197	59	17	12	6.6
16	13	14	105	71	93	550	275	106	44	23	9.9	5.8
17	9.6	13	59	49	79	926	132	54	36	32	8.8	21
18	7.3	14	42	40	68	325	86	35	30	2,530	8.1	11
19	5.6	14	34	34	63	170	67	27	26	1,660	7.9	8.7
20	4.3	15	30	31	59	115	55	22	23	427	7.7	8.2
21	3.7	13	103	29	59	84	47	19	20	133	7.4	7.0
22	2.9	13	729	26	56	67	40	16	18	82	6.8	5.8
23	2.5	15	458	26	49	59	37	14	16	59	6.9	4.6
24	2.1	50	174	29	43	157	35	13	14	40	7.7	3.4
25	2.1	63	104	33	41	135	31	12	13	34	6.6	3.0
26	1.9	821	75	42	102	78	28	11	15	30	5.8	2.0
27	1.6	776	60	43	208	56	25	12	20	25	4.9	1.6
28	1.4	288	51	39	120	273	23	247	20	21	4.1	1.5
29	1.1	138	44	35		946	21	286	21	19	3.6	1.3
30	1.4	84	40	33		544	20	113	23	18	3.7	1.3
31	1,600		36	31		217		209		16	4.2	
Total	1,797	5,241	2,864	1,429	5,024	5,507	5,304	2,487	4,277	5,293	330	240
Mean	58.0	175	92.4	46.1	179	178	177	80.2	143	171	10.6	8.01
Max	1,600	1,810	729	236	870	946	974	582	1,470	2,530	20.0	22.0
Min	1.10	13.0	24.0	25.0	31.0	31.0	20.0	11.0	13.0	4.00	3.60	1.30
Ac-ft	3,565	10,400	5,681	2,834	9,967	10,920	10,520	4,933	8,483	10,500	655	477

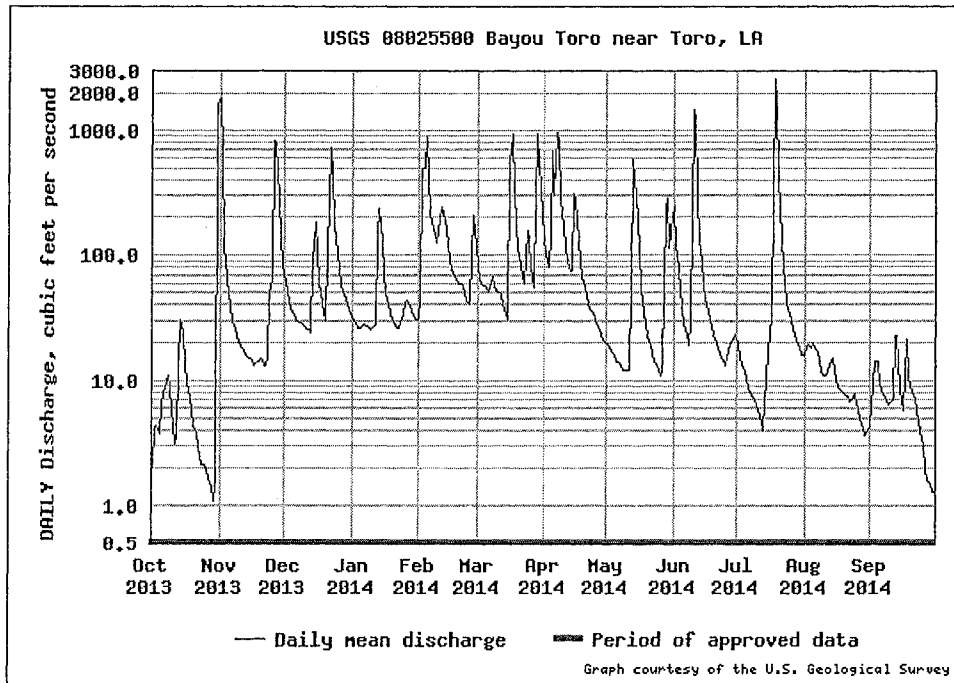
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2014, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	74.5	112	201	290	321	265	229	167	95.4	55.0	23.1	44.1
Max	1,233	663	1,166	1,228	1,117	874	1,354	1,223	1,202	887	198	928
(WY)	(2007)	(2002)	(1983)	(1999)	(1975)	(2012)	(1968)	(1975)	(1989)	(1989)	(1958)	(1961)
Min	.37	5.12	7.96	11.5	10.5	13.5	5.48	4.07	2.26	.73	.15	.76
(WY)	(2012)	(1982)	(1982)	(2000)	(2000)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(1956)

Water-Data Report 2014
 08025500 Bayou Toro near Toro, LA -- Continued

SUMMARY STATISTICS

	Water Year 2014		Water Years 1956 - 2014	
Annual total	39,800			
Annual mean	109.0		155.7	
Highest annual mean			408.6	1975
Lowest annual mean			17.8	2011
Highest daily mean	2,530	Jul 18	21,600	Apr 09, 1968
Lowest daily mean	1.10	Oct 29	0.0	Aug 22, 2011
Annual 7-day minimum	1.66	Oct 24	0.0	Aug 22, 2011
Maximum peak flow	4,200	Jul 18	31,200	Apr 09, 1968
Maximum peak stage	17.29	Jul 18	25.73	Apr 09, 1968
Annual runoff (cfsm)	0.737		1.05	
Annual runoff (inches)	10.0		14.3	
10 percent exceeds	247.0		291.0	
50 percent exceeds	28.0		30.0	
90 percent exceeds	5.80		5.10	





USGS Water-Year Summary 2014

08026000 Sabine River near Burkeville, TX

LOCATION - Lat 31°03'50", long 93°31'10" referenced to North American Datum of 1927, Newton County, TX, Hydrologic Unit 12010005, near left edge of low-water channel on downstream side of bridge on State Highway 63, about 200 ft downstream from Pearl Creek, 10 mi northeast of Burkeville, 16 mi downstream from Bayou Toro and at mile 139.7.

DRAINAGE AREA - 7,482 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD - Sept. 1955 to current year. Published as "below Toledo Bend near Burkeville" for period 1955-75. PERIOD OF RECORD, Water-Quality.-- CHEMICAL DATA: May 1968 to Aug. 1986. BIOCHEMICAL DATA: May 1968 to Aug. 1986. PESTICIDE DATA: Oct. 1970 to Aug. 1986. RADIOCHEMICAL DATA: Jan. 1981 to May 1981.

REVISED RECORDS - WSP 1732: Drainage area.

GAGE - Water-stage recorder. Datum of gage is 60.59 ft above NGVD of 1929. Prior to Aug. 23, 1958, nonrecording gage at current site. Prior to Jan. 1, 1989, at present site at datum 10.00 ft higher. Satellite telemeter at station.

REMARKS - Records good except those for estimated daily discharge, which are fair. Since water year 1961, at least 10% of contributing drainage area has been regulated. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD - Maximum stage since at least 1860: Flood in May 1884 reached a stage of 45.9 ft, current datum, from information by local resident. Flood of Apr. 15, 1945, reached a stage of 45.8 ft, current datum. Flood of May 23, 1953, reached a stage of 45.3 ft, current datum, from floodmarks.

EXTREMES FOR PERIOD PRIOR TO REGULATION - WATER YEARS 1956-1960: Maximum discharge, 52,900 ft³/s, May 15, 1957, gage height, 32.43 ft; minimum, 60 ft³/s, Sept. 26-30, 1956.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION - 5 years (water years 1956-1960) 5,180 ft³/s (3,749,000 acre-ft/yr).

U.S. Department of the Interior
U.S. Geological Survey

Suggested citation: U.S. Geological Survey, 2015, National Water Information System data available on the World Wide Web (USGS Water Data for the Nation), accessed [March 3, 2015], at URL http://nwis.waterdata.usgs.gov/nwis/wys_rpt?dd_parm_cds=002_00060&adr_begin_date=2013-10-01&adr_end_date=2014-09-30&site_no=08026000&agency_cd=USGS

Water-Data Report 2014
 08026000 Sabine River near Burkeville, TX -- Continued

DISCHARGE, CUBIC FEET PER SECOND
YEAR 2013-10-01 to 2014-09-30
DAILY MEAN VALUES
 [e, Value has been estimated.]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	2013	2013	2013	2014	2014	2014	2014	2014	2014	2014	2014	2014
1	635	5,290	15,300	7,240	401	491	693	358	5,000	3,010	e337	1,090
2	257	8,410	15,300	2,730	389	443	577	362	7,310	3,160	331	2,480
3	238	7,920	13,200	497	657	424	525	357	9,660	2,950	332	2,520
4	243	7,610	7,420	400	1,110	424	877	350	8,930	1,720	334	1,960
5	250	7,540	1,570	376	1,540	416	1,110	342	7,070	435	1,280	2,070
6	235	7,510	433	354	1,380	408	1,150	338	6,060	382	1,270	1,320
7	232	7,500	384	361	866	412	2,080	335	5,800	1,590	1,320	664
8	231	7,540	374	358	655	414	8,940	332	4,080	2,870	2,080	630
9	230	8,580	1,600	351	580	419	14,600	348	3,910	2,620	2,980	872
10	231	14,600	2,940	350	579	410	14,400	349	8,430	2,930	3,220	846
11	437	15,700	2,760	344	947	403	14,800	337	7,730	3,240	3,380	277
12	552	13,600	2,780	340	3,430	379	14,900	341	6,370	2,700	3,490	305
13	452	5,420	2,810	391	7,360	378	14,900	1,340	2,980	2,990	3,230	1,210
14	561	765	2,880	2,130	7,470	365	14,200	1,100	750	3,310	1,540	885
15	487	387	7,030	6,950	7,420	374	12,500	809	594	1,920	966	434
16	591	349	7,470	7,210	7,370	651	2,750	2,370	1,130	505	1,930	1,280
17	482	372	7,440	7,180	7,360	2,930	927	3,530	2,860	431	2,140	2,080
18	585	364	7,400	2,460	2,900	7,500	682	1,850	2,030	e1,950	2,680	1,940
19	481	336	7,380	464	684	7,460	589	3,910	537	4,520	3,700	839
20	588	324	7,330	379	476	7,340	539	4,910	1,430	2,040	2,860	1,760
21	475	318	2,820	343	396	7,260	503	5,030	2,280	2,280	2,950	4,070
22	755	312	2,720	349	392	7,290	474	5,830	1,330	1,870	1,880	4,090
23	882	314	7,660	346	391	7,270	453	8,060	2,080	540	1,350	4,670
24	592	320	11,000	370	374	7,290	434	8,380	3,520	434	2,130	3,480
25	491	404	14,800	373	361	7,380	423	14,200	2,610	411	3,740	3,260
26	600	3,540	15,000	381	399	7,350	406	14,800	1,130	387	4,020	3,450
27	505	10,100	15,000	384	480	5,170	387	10,300	2,680	365	4,020	3,590
28	628	15,600	15,000	386	554	1,110	393	9,900	2,120	356	3,440	3,880
29	509	15,900	14,300	795		1,250	376	8,040	529	357	2,900	4,010
30	630	15,500	8,410	1,040		1,570	361	7,220	1,410	348	1,600	4,720
31	2,290		7,320	690		1,000		7,780		e337	467	
Total	16,360	182,400	227,800	46,320	56,920	85,980	125,900	123,500	112,400	52,959	67,900	64,680
Mean	528	6,081	7,349	1,494	2,033	2,774	4,198	3,983	3,745	1,708	2,190	2,156
Max	2,290	15,900	15,300	7,240	7,470	7,500	14,900	14,800	9,660	4,520	4,020	4,720
Min	230	312	374	340	361	365	361	332	529	337	331	277
Ac-ft	32,440	361,800	451,900	91,880	112,900	170,500	249,800	245,000	222,800	105,000	134,700	128,300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2014, BY WATER YEAR (WY)

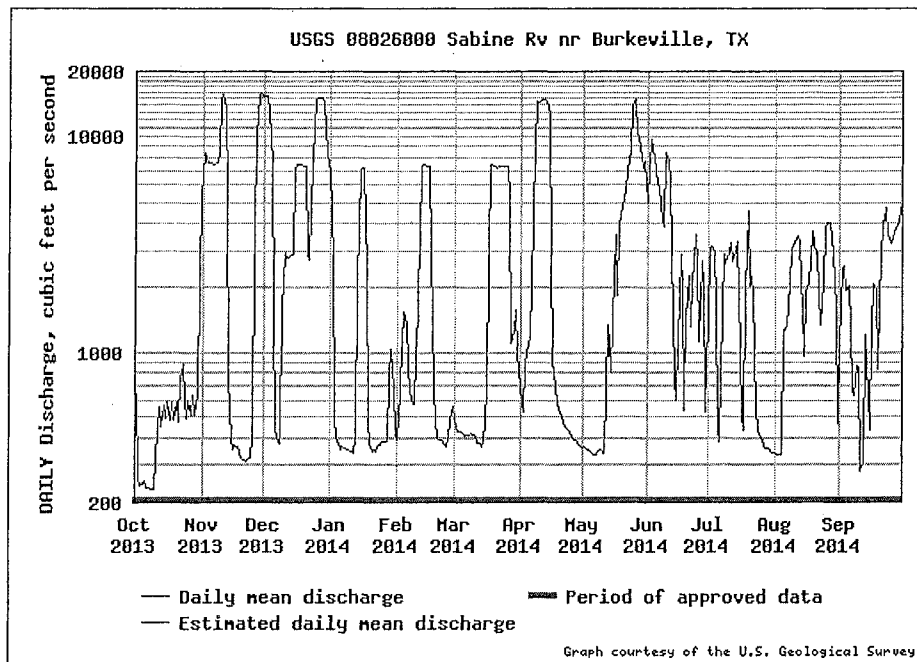
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,326	2,504	5,387	7,685	8,475	9,677	7,544	6,936	4,822	4,020	3,040	2,818
Max	7,346	26,870	17,990	28,510	27,320	45,040	26,529	32,070	25,310	23,750	6,662	11,660
(WY)	(2010)	(2010)	(1962)	(1974)	(1999)	(2001)	(1969)	(1966)	(1989)	(1989)	(1976)	(2001)
Min	82.5	86.2	247	429	266	485	231	355	400	166	91.7	77.6
(WY)	(1968)	(1968)	(1968)	(2008)	(1968)	(1968)	(1971)	(2013)	(1970)	(1964)	(1967)	(1967)

Water-Data Report 2014
 08026000 Sabine River near Burkeville, TX -- Continued

SUMMARY STATISTICS

	Water Year 2014		Water Years 1961 - 2014	
Annual total	1,163,000			
Annual mean	3,187		5,338	
Highest annual mean			11,190	1995
Lowest annual mean			546.2	1967
Highest daily mean	15,900	Nov 29	117,000	Feb 01, 1999
Lowest daily mean	230.0	Oct 09	38.0	Sep 14, 1967
Annual 7-day minimum	236.0	Oct 04	40.9	Sep 09, 1967
Maximum peak flow	16,000 ^a	Nov 28	124,000 ^a	Feb 01, 1999
Maximum peak stage	25.84	Nov 28	48.05	Feb 01, 1999
Annual runoff (cfsm)	0.426		0.713	
Annual runoff (inches)	5.78		9.69	
10 percent exceeds	8,048		15,200	
50 percent exceeds	1,330		2,450	
90 percent exceeds	349.0		299.0	

^a Discharge affected by Regulation or Diversion





USGS Water-Year Summary 2014

08028000 Bayou Anacoco near Rosepine, LA

LOCATION - Lat 30°57'10", long 93°21'10" referenced to North American Datum of 1927, in sec.25, T.1 S., R.10 W., Vernon Parish, LA, Hydrologic Unit 12010005, near center of span on downstream side of bridge on parish road from Rosepine to Evans, just downstream from Pocosin Creek, and 4.8 mi northwest of Rosepine.

DRAINAGE AREA - 365 mi².

U.S. Department of the Interior
U.S. Geological Survey

Suggested citation: U.S. Geological Survey, 2015, National Water Information System data available on the World Wide Web (USGS Water Data for the Nation), accessed [March 4, 2015], at URL http://nwis.waterdata.usgs.gov/nwis/wys_rpt?dd_parm_cds=002_00060&adr_begin_date=2013-10-01&adr_end_date=2014-09-30&site_no=08028000&agency_cd=USGS

Water-Data Report 2014
 08028000 Bayou Anacoco near Rosepine, LA -- Continued

**DISCHARGE, CUBIC FEET PER SECOND
 YEAR 2013-10-01 to 2014-09-30
 DAILY MEAN VALUES**

[e, Value has been estimated.]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	2013	2013	2013	2014	2014	2014	2014	2014	2014	2014	2014	2014
1	93	1,320	520	109	107	266	680	70	1,310	167	94	392
2	55	1,320	389	100	110	229	509	62	1,240	128	86	194
3	38	1,380	307	96	246	274	398	56	899	109	80	285
4	30	1,060	247	85	456	310	763	49	621	105	76	180
5	31	712	214	77	754	250	1,180	45	455	112	70	110
6	29	482	196	89	861	225	885	42	346	105	66	88
7	26	364	176	88	606	227	1,210	40	268	77	62	74
8	24	269	143	75	470	212	1,150	39	204	62	56	68
9	17	197	119	76	389	194	682	40	170	52	50	57
10	14	155	114	71	369	189	477	42	1,200	45	49	49
11	11	124	106	73	1,270	180	362	43	2,140	41	50	44
12	11	104	96	76	1,760	167	293	59	1,990	39	60	44
13	15	99	91	90	1,420	156	242	1,870	1,780	58	70	862
14	75	78	96	190	907	129	562	4,850	1,650	63	53	1,390
15	56	63	111	217	651	120	1,340	7,880	939	58	46	666
16	35	59	106	182	499	845	1,180	5,050	617	60	42	344
17	24	57	103	154	397	1,360	746	3,380	481	62	39	257
18	18	66	101	138	333	919	549	1,540	358	826	39	204
19	17	76	96	120	291	604	425	912	275	2,790	38	e199
20	18	71	93	111	255	471	335	633	217	2,960	37	e168
21	18	62	97	103	310	369	266	465	175	2,360	37	e139
22	16	59	210	97	305	296	211	356	141	1,450	39	e112
23	14	62	365	86	262	253	182	279	117	885	49	98
24	13	81	353	103	227	221	148	218	105	872	41	77
25	10	92	295	98	195	171	121	172	117	626	37	66
26	9.4	859	244	100	383	149	113	138	103	398	35	57
27	9.0	1,750	206	104	496	127	98	121	432	279	33	51
28	9.3	1,500	174	121	344	898	83	230	499	205	34	48
29	9.2	1,040	148	121		1,790	78	377	339	162	32	46
30	16	727	131	111		1,800	76	365	239	135	66	44
31	502		119	108		1,050		1,190		109	396	
Total	1,263	14,290	5,766	3,369	14,670	14,449	15,340	30,610	19,430	15,400	1,962	6,413
Mean	40.7	476	186	109	524	466	511	988	648	497	63.3	214
Max	502	1,750	520	217	1,760	1,800	1,340	7,880	2,140	2,960	396	1,390
Min	9.00	57.0	91.0	71.0	107	120	76.0	39.0	103	39.0	32.0	44.0
Ac-ft	2,505	28,340	11,440	6,682	29,099	28,660	30,430	60,719	38,530	30,540	3,892	12,720

4723

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2014, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	189	386	660	729	908	732	675	563	279	223	136	155
Max	2,199	2,572	6,006	2,741	4,220	3,173	2,402	6,181	2,628	2,665	2,286	1,698
(WY)	(2007)	(2003)	(1983)	(1990)	(1966)	(2012)	(1952)	(1953)	(1989)	(1989)	(1955)	(1958)
Min	4.24	7.83	18.3	25.8	24.6	92.7	19.3	8.27	8.38	6.75	2.86	9.18
(WY)	(2012)	(2013)	(2011)	(2000)	(2000)	(2000)	(2011)	(2011)	(2011)	(2011)	(2011)	(1993)

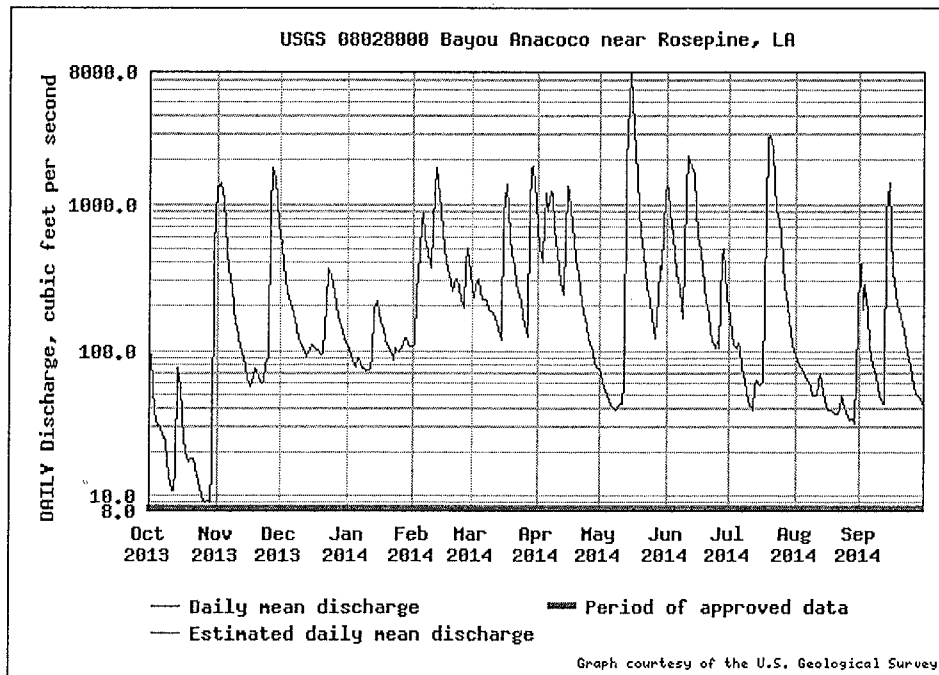
5635 ✓

8/3/15/16

Water-Data Report 2014
 08028000 Bayou Anacoco near Rosepine, LA -- Continued

SUMMARY STATISTICS

	Water Year 2014		Water Years 1952 - 2014	
Annual total	143,000			
Annual mean	391.7		467.4	
Highest annual mean			1,266	1983
Lowest annual mean			26.9	2011
Highest daily mean	7,880	May 15	49,900	Apr 30, 1953
Lowest daily mean	9.00	Oct 27	0.560	Sep 02, 2011
Annual 7-day minimum	10.6	Oct 23	1.11	Aug 17, 2011
Maximum peak flow	8,790	May 15	64,300	May 19, 1953
Maximum peak stage	21.79	May 15	28.38	May 19, 1953
Annual runoff (cfsm)	1.07		1.28	
Annual runoff (inches)	14.6		17.4	
10 percent exceeds	1,054		1,070	
50 percent exceeds	141.0		137.0	
90 percent exceeds	39.0		18.0	





Water-Data Report 2014

08028200 Bayou Anacoco near Knight, LA

Sabine Basin
Lower Sabine Subbasin

LOCATION.--Lat 30°52'14", long 93°30'38" referenced to North American Datum of 1927, Beauregard Parish, LA, Hydrologic Unit 12010005, near right bank of low-water channel at downstream side of bridge on State Highway 111, 4.9 mi southwest of Knight, and 5.2 mi upstream from mouth.

DRAINAGE AREA.--425.00 mi².

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1969 to September 1972.

WATER TEMPERATURE: December 1969 to September 1971.

COLOR: December 1969 to July 1972.

REMARKS.--Some effect from storage in Anacoco Lake (usable capacity, 41,300 acre-ft) except January 1956 to September 1958 and Lake Vernon (usable capacity, 58,000 acre-ft) since May 1963. Water used by paper mill at De Ridder is pumped from wells and discharged later as waste into bayou above station. This discharge is not continuous but is stored in a reservoir and is released whenever flow of bayou is sufficient to dilute effluent from mill.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 910 micromhos Oct. 31, 1970; minimum daily, 40 micromhos Jan. 1, 1970, Jan. 7, 1972.

WATER TEMPERATURE: Maximum daily, 33.0°C June 15, 1970; minimum daily, 7.0°C Jan. 9, 10, 1970.

COLOR: Maximum daily, 600 units Mar. 16, 1971; minimum daily, 5 units June 20, 27-30, 1970.

WATER-QUALITY DATA

WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014

Part 1 of 4

[CaCO₃, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Color, water, filtered, platinum cobalt units (00080)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, at 25°C, μS/cm (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Biochemical oxygen demand, water, unfiltered, 5 days at 20°C, mg/L (00310)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)
11-13-2013	1300	125	9.1	7.5	468	14.7	E 12	--	320
02-21-2014	1300	88	9.1	7.4	270	16.5	20	--	203
04-01-2014	1245	125	8.6	6.6	150	21.6	36	3.5	123
06-02-2014	1215	150	7.0	6.7	119	25.6	48	--	96
07-07-2014	1230	150	6.7	7.0	458	28.3	E 19	--	314
09-24-2014	1500	175	7.6	7.5	564	27.0	E 19	--	369

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014

Part 2 of 4

[CaCO₃, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (29801)	Alkalinity, water, filtered, inflection-point, al titration method, field, mg/L as CaCO ₃ (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Carbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00452)
11-13-2013	1300	13.8	1.88	5.17	83.5	73.0	67.7	82.2	0.2
02-21-2014	1300	9.77	1.25	3.07	42.9	39.7	36.9	44.9	0.1
04-01-2014	1245	6.27	0.989	2.57	23.1	22.6	20.1	24.5	--
06-02-2014	1215	4.11	0.747	2.11	17.2	17.7	22.8	27.8	--
07-07-2014	1230	11.0	1.51	5.33	77.3	58.7	56.2	68.3	0.1
09-24-2014	1500	10.4	1.54	4.39	110	99.7	91.0	110	0.5

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014

Part 3 of 4

[CaCO₃, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Phosphorus, water, filtered, mg/L as P (00666)
11-13-2013	1300	10.7	0.12	14.5	130	0.69	0.036	0.259	0.006	0.11
02-21-2014	1300	9.27	0.07	13.4	68.7	0.76	0.08	0.149	0.015	0.04
04-01-2014	1245	5.67	0.05	9.03	34.8	0.84	0.06	0.072	0.008	0.03
06-02-2014	1215	4.38	0.05	7.66	24.8	0.82	0.04	0.136	0.013	0.04
07-07-2014	1230	10.8	0.1	13.3	128	0.67	0.02	0.523	0.024	0.13
09-24-2014	1500	10.9	0.11	14.9	139	0.63	0.011	0.505	0.023	0.16

Water-Data Report 2014

08028200 Bayou Anacoco near Knight, LA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014

Part 4 of 4

[CaCO₃, calcium carbonate; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Phosphorus, water, unfiltered, mg/L as P (00665)	Escherichia coli, Defined Substrate Technology, water, MPN/100 (50468)	Total coliform, Defined Substrate Technology, water, MPN/100 (50569)	Iron, water, filtered, µg/L (01046)	Manganese, water, filtered, µg/L (01056)
11-13-2013	1300	0.15	--	--	277	245
02-21-2014	1300	0.1	2900	370	263	135
04-01-2014	1245	0.1	74	13000	276	38.9
06-02-2014	1215	0.11	330	>24000	348	22.1
07-07-2014	1230	0.17	20	13000	520	141
09-24-2014	1500	0.2	11	8700	339	144

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014

Part 1 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	1,4-Dichloro benzene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49442)	2,4,6-Trichloro phenol, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49415)	2,4-Dichloro phenol, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49417)	2-Methyl-4,6-dinitrophenol, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49419)	4-Chloro-3-methylphenol, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49422)	Azobenzene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49443)	Carbazole, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49449)	Hexachlorobenzene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49343)	p-Cresol, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49451)
02-21-2014	1300	< 48	< 48	< 48	< 48	< 48	< 48	< 48	< 48	< 48

Water-Data Report 2014
08028200 Bayou Anacoco near Knight, LA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014
Part 2 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Pentachloroanisole, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49460)	Pentachloronitrobenzene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49446)	1,4-Dichlorobenzene, water, unfiltered, recoverable, µg/L (34571)	2,4,6-Trichlorophenol, water, unfiltered, recoverable, µg/L (34621)	2,4-Dichlorophenol, water, unfiltered, recoverable, µg/L (34601)	2,4-Dimethylphenol, water, unfiltered, recoverable, µg/L (34606)	2-Methyl-4,6-dinitrophenol, water, unfiltered, recoverable, µg/L (34657)	4-Chloro-3-methylphenol, water, filtered, recoverable, µg/L (34452)	4-Nitrophenol, water, unfiltered, recoverable, µg/L (34646)
02-21-2014	1300	< 48	< 48	< .22	< .34	< .36	< .8	< 2	< .54	< .52

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014
Part 3 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Hexachlorobenzene, water, unfiltered, recoverable, µg/L (39700)	Pentachlorophenol, water, unfiltered, recoverable, µg/L (39032)	1,2,4-Trichlorobenzene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49438)	1,2-Dichlorobenzene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49439)	1,2-Dimethylnaphthalene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49403)	1,3-Dichlorobenzene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49441)	1,6-Dimethylnaphthalene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49404)	1-Methyl-9H-fluorene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49398)	1-Methylphenanthrene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49410)
02-21-2014	1300	< .30	< .6	< 48	< 48	< 48	< 48	< 48	< 48	< 48

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014

Part 4 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	1- Methylpyrene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49388)	2,2'- Biquinolene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49391)	2,3,6- Trimethylnaphthalene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49405)	2,4,6- Trimethylphenol, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49416)	2,4- Dinitrotoluene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49395)	2,6- Dimethylnaphthalene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49406)	2,6- Dinitrotoluene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49396)	2- Chloronaphthalene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49407)	2- Chlorophenol, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49467)
02-21-2014	1300	< 48	12	< 48	< 48	< 48	< 48	< 48	< 48	< 48

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014

Part 5 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	2- Ethylanthracene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49948)	2- Methylanthracene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49435)	2- Nitrophenol, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49420)	3,5- Dimethylphenol, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49421)	3- Nitrophenol, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49423)	4- Bromophenyl ether, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49454)	4- Chlorophenyl ether, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49455)	4H- Cyclophenanthrene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49411)	9,10- Anthracinone, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49437)
02-21-2014	1300	< 48	< 48	< 48	< 48	< 48	< 48	< 48	< 48	< 48

Water-Data Report 2014
08028200 Bayou Anacoco near Knight, LA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014

Part 6 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	9H-Fluorene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49399)	Acenaphthene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49429)	Acenaphthylene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49428)	Acridine, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49430)	Anthracene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49434)	Benzo[a]anthracene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49436)	Benzo[a]pyrene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49389)	Benzo[b]fluoranthene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49458)	Benzo[c]cinnoline, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49468)
02-21-2014	1300	< 48	< 48	< 48	< 48	< 48	< 48	< 48	< 48	< 48

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014

Part 7 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Benzo[ghi]perylene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49408)	Benzo[k]fluoranthene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49397)	Benzyl n-butyl phthalate, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49427)	Bis(2-chloroethyl) ether, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49401)	Bis(2-chloroethyl) ether, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49456)	Bis(2-chloroisopropyl) ether, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49457)	Bis(2-ethylhexyl) phthalate, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49426)	C8-Alkylphenol, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49424)	Chrysene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49450)
02-21-2014	1300	< 48	< 48	< 65	< 48	< 48	< 48	< 48	< 48	< 48

Water-Data Report 2014

08028200 Bayou Anacoco near Knight, LA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014
Part 8 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Dibenzo[a,h]anthracene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49461)	Dibenzothiophene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49452)	Diethyl phthalate, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49383)	Dimethyl phthalate, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49384)	Di-n-butyl phthalate, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49381)	Di-n-octyl phthalate, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49382)	Fluoranthene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49466)	Hexachlorobutadiene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49448)	Hexachlorocyclopentadiene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49489)
02-21-2014	1300	< 48	< 48	< 48	< 48	< 48	< 48	< 48	< 48	< 48

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014
Part 9 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Hexachloroethane, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49453)	Indeno[1,2,3-cd]pyrene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49390)	Isophorone, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49400)	Isoquinoline, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49394)	Naphthalene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49402)	Nitrobenzene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49444)	N-Nitrosodipropylamine, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49431)	N-Nitrosodiphenylamine, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49433)	Phenanthrene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49409)
02-21-2014	1300	< 48	< 48	< 48	13	< 48	< 48	< 48	< 48	< 48

Water-Data Report 2014

08028200 Bayou Anacoco near Knight, LA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014

Part 10 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Phenanthridine, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49393)	Phenol, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49413)	Pyrene, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49387)	Quinoline, bed sediment smaller than 2 millimeters, wet sieved (native water), field, recoverable, dry weight, micrograms per kilogram (49392)	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, µg/L (34551)	1,2-Dichlorobenzene, water, unfiltered, recoverable, µg/L (34536)	1,2-Diphenylhydrazine, water, unfiltered, recoverable, µg/L (82626)	1,3-Dichlorobenzene, water, unfiltered, recoverable, µg/L (34566)	2,4-Dinitrophenol, water, unfiltered, recoverable, µg/L (34616)
02-21-2014	1300	< 48	< 48	< 48	< 48	< .26	< .2	< .30	< .22	< 2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014

Part 11 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	2,4-Dinitrotoluene, water, unfiltered, recoverable, µg/L (34611)	2,6-Dinitrotoluene, water, unfiltered, recoverable, µg/L (34626)	2-Chloronaphthalene, water, unfiltered, recoverable, µg/L (34581)	2-Chlorophenol, water, unfiltered, recoverable, µg/L (34586)	2-Nitrophenol, water, unfiltered, recoverable, µg/L (34591)	3,3'-Dichlorobenzidine, water, unfiltered, recoverable, µg/L (34631)	4-Bromophenyl ether, water, unfiltered, recoverable, µg/L (34636)	4-Chlorophenyl ether, water, unfiltered, recoverable, µg/L (34641)	9H-Fluorene, water, unfiltered, recoverable, µg/L (34381)
02-21-2014	1300	< .56	< .4	< .24	< .26	< .4	< .42	< .24	< .34	< .34

Water-Data Report 2014

08028200 Bayou Anacoco near Knight, LA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014

Part 12 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Acenaphthene, water, unfiltered, recoverable, µg/L (34205)	Acenaphthylene, water, unfiltered, recoverable, µg/L (34200)	Anthracene, water, unfiltered, recoverable, µg/L (34220)	Benzo[a]anthracene, water, unfiltered, recoverable, µg/L (34526)	Benzo[a]pyrene, water, unfiltered, recoverable, µg/L (34247)	Benzo[a]fluoranthene, water, unfiltered, recoverable, µg/L (34230)	Benzo[ghi]perylene, water, unfiltered, recoverable, µg/L (34521)	Benzo[k]fluoranthene, water, unfiltered, recoverable, µg/L (34242)	Benzyl n-butyl phthalate, water, unfiltered, recoverable, µg/L (34292)
02-21-2014	1300	<.28	<.30	<.38	<.26	<.32	<.30	<.38	<.30	.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014

Part 13 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Bis(2-chloroethoxy)methane, water, unfiltered, recoverable, µg/L (34278)	Bis(2-chloroethyl) ether, water, unfiltered, recoverable, µg/L (34273)	Bis(2-chloroisopropyl) ether, water, unfiltered, recoverable, µg/L (34283)	Bis(2-ethylhexyl) phthalate, water, unfiltered, recoverable, µg/L (39100)	Chrysene, water, unfiltered, recoverable, µg/L (34320)	Dibenzo[a,h]anthracene, water, unfiltered, recoverable, µg/L (34556)	Diethyl phthalate, water, unfiltered, recoverable, µg/L (34336)	Dimethyl phthalate, water, unfiltered, recoverable, µg/L (34341)	Di-n-butyl phthalate, water, unfiltered, recoverable, µg/L (39110)
02-21-2014	1300	<.24	<.30	<.14	E.5	<.32	<.42	<.62	<.36	<2.80

WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014

Part 14 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Di-n-octyl phthalate, water, unfiltered, recoverable, µg/L (34596)	Fluoranthene, water, unfiltered, recoverable, µg/L (34376)	Hexachlorobutadiene, water, unfiltered, recoverable, µg/L (39702)	Hexachlorocyclopentadiene, water, unfiltered, recoverable, µg/L (34386)	Hexachloroethane, water, unfiltered, recoverable, µg/L (34396)	Indeno[1,2,3-cd]pyrene, water, unfiltered, recoverable, µg/L (34403)	Iso-phorone, water, unfiltered, recoverable, µg/L (34408)	Naphthalene, water, unfiltered, recoverable, µg/L (34696)	Nitrobenzene, water, unfiltered, recoverable, µg/L (34447)
02-21-2014	1300	<.6	<.30	<.24	<.50	<.24	<.38	.03	<.22	<0.26

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2013 TO SEPTEMBER 2014**

Part 15 of 15

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	N-Nitro-sodi-methyl-amine, water, unfiltered, recoverable, µg/L (34438)	N-Nitro-sodi-n-propyl-amine, water, unfiltered, recoverable, µg/L (34428)	N-Nitro-sodi-phenyl-amine, water, unfiltered, recoverable, µg/L (34433)	Organic carbon, water, unfiltered, mg/L (00680)	Phenanthrene, water, unfiltered, recoverable, µg/L (34461)	Phenol, water, unfiltered, recoverable, µg/L (34694)	Pyrene, water, unfiltered, recoverable, µg/L (34469)
02-21-2014	1300	<.32	<.4	<.48	14.1	<.32	<.28	<.36



USGS Water-Year Summary 2014

08028500 Sabine River near Bon Wier, TX

LOCATION - Lat 30°44'49", long 93°36'30" referenced to North American Datum of 1927, Newton County, TX, Hydrologic Unit 12010005, near left bank on downstream side of bridge on U.S. Highway 190, 0.7 mi upstream from Quicksand Creek, 0.8 mi upstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 2.0 mi east of Bon Wier, 2.4 mi upstream from Caney Creek and at mile 97.7.

DRAINAGE AREA - 8,229 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD - Oct. 1923 to current year. Monthly discharge only for some periods, published in WSP 1312. Gage-height records collected in this vicinity since 1913 are contained in reports of the National Weather Service.

REVISED RECORDS - WSP 1342: 1953. WSP 1442: 1924, 1926-27(M), 1929(M), 1939. WSP 1732: Drainage area.

GAGE - Water-stage recorder. Datum of gage is 33.42 ft above NGVD of 1929. Prior to July 8, 1931, nonrecording gage at site 0.8 mi downstream at datum 13.00 ft higher. July 8, 1931, to Oct. 15, 1958, nonrecording gage at present site at datum 13.00 ft higher. Oct. 16, 1958, to Sept. 30, 1975, water-stage recorder at present site at datum 13.00 ft higher. Oct. 1, 1975, to Dec. 31, 1988, at present site at datum 10.00 ft higher. Satellite telemeter at station.

REMARKS - For 2014 water year, records good. Since water year 1961, at least 10% of contributing drainage area has been regulated. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD - Maximum stage since at least 1833, 43.5 ft Apr. 23 or 24, 1913, from information by Gulf, Colorado, and Santa Fe Railway Co. and local residents. Flood in May 1884 reached a stage of 39 ft. Floods occurring about 1844 and 1860 were higher than flood in May 1884, from information by local residents. All flood data referenced to current datum.

EXTREMES FOR PERIOD PRIOR TO REGULATION - WATER YEARS, 1924-1960: Maximum discharge, 115,000 ft³/s, May 19, 1953, gage height, 38.70 ft, current datum; minimum, 160 ft³/s, Sept. 29, 1956.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION - 37 years (water years 1924-1960) 7,155 ft³/s (5,184,000 acre-ft/yr).

U.S. Department of the Interior
U.S. Geological Survey

Suggested citation: U.S. Geological Survey, 2015, National Water Information System data available on the World Wide Web (USGS Water Data for the Nation), accessed [May 6, 2015], at URL http://nwis.waterdata.usgs.gov/nwis/wys_rpt?dd_parm_cds=002_00060&adr_begin_date=2013-10-01&adr_end_date=2014-09-30&site_no=08028500&agency_cd=USGS

Water-Data Report 2014
 08028500 Sabine River near Bon Wier, TX -- Continued

DISCHARGE, CUBIC FEET PER SECOND
YEAR 2013-10-01 to 2014-09-30
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	2013	2013	2013	2014	2014	2014	2014	2014	2014	2014	2014	2014
1	1,270	10,200	16,400	7,740	1,100	1,450	2,370	718	8,240	1,770	732	1,240
2	1,190	10,100	16,200	6,850	831	1,290	1,770	696	6,350	3,090	704	1,600
3	753	10,100	15,900	2,740	955	1,210	1,580	687	8,920	3,160	684	2,660
4	595	9,330	12,200	1,150	1,380	1,230	1,730	680	10,600	3,090	669	2,700
5	542	8,700	7,050	929	2,150	1,250	3,150	662	9,070	2,060	665	2,160
6	541	8,300	2,560	870	2,650	1,210	2,960	645	7,400	1,030	1,260	2,120
7	511	8,040	1,360	822	2,370	1,150	2,740	639	5,700	856	1,460	1,580
8	486	7,910	1,160	790	1,750	1,100	4,960	630	6,290	1,650	1,380	947
9	473	7,760	1,060	756	1,430	1,050	11,600	649	3,630	2,740	2,050	959
10	460	10,100	2,110	746	1,330	1,020	15,200	689	5,340	2,530	2,770	936
11	445	14,500	3,190	744	2,410	996	15,100	683	9,870	2,870	3,060	1,110
12	521	15,300	3,120	722	4,020	960	15,400	657	9,080	3,080	3,340	617
13	802	11,900	3,110	774	7,160	911	15,500	664	7,960	2,750	3,390	575
14	605	5,220	3,150	919	9,050	867	15,900	2,730	4,790	2,900	3,090	1,630
15	826	1,700	4,100	3,320	8,610	845	16,600	4,340	2,870	3,290	1,770	2,050
16	686	1,080	7,370	7,190	8,230	1,100	12,500	5,740	1,970	2,120	1,160	1,290
17	887	968	7,690	7,450	8,020	2,370	4,680	8,280	2,030	1,020	1,880	1,590
18	643	960	7,650	6,580	7,170	5,430	2,380	6,700	3,370	1,200	2,090	2,280
19	855	906	7,590	2,580	3,180	8,280	1,830	3,790	2,440	4,560	2,650	2,080
20	635	851	7,580	1,120	1,590	8,030	1,580	4,750	1,310	6,610	3,390	1,350
21	844	813	6,940	879	1,360	7,790	1,410	5,310	1,760	4,690	2,740	2,000
22	626	791	3,320	789	1,300	7,680	1,250	5,290	2,440	4,390	2,890	3,820
23	908	769	4,690	744	1,200	7,600	1,130	6,340	1,730	3,200	1,950	4,090
24	999	763	8,390	736	1,140	7,510	1,050	7,980	2,310	1,760	1,440	4,290
25	885	823	12,800	749	1,070	7,480	979	10,000	3,540	1,500	2,050	3,380
26	622	2,230	15,200	758	1,220	7,490	915	14,100	2,750	1,300	3,440	3,080
27	840	8,230	15,500	767	1,830	7,420	860	13,500	1,830	1,090	3,790	3,270
28	633	14,100	15,500	772	1,660	4,930	826	10,600	3,240	947	3,730	3,380
29	865	17,100	15,500	776		3,440	792	9,930	2,690	856	3,220	3,630
30	689	16,900	13,100	977		3,820	751	7,600	1,380	798	2,920	3,890
31	2,750		8,670	1,290		3,480		8,720		762	1,960	
Total	24,390	206,400	250,199	64,030	86,170	110,400	159,500	144,400	140,900	73,670	68,320	66,300
Mean	787	6,881	8,070	2,065	3,076	3,561	5,316	4,658	4,697	2,376	2,204	2,210
Max	2750	17100	16400	7740	9050	8280	16600	14100	10600	6610	3790	4290
Min	445	763	1060	722	831	845	751	630	1310	762	665	575
Ac-ft	48,370	409,500	496,200	127,000	170,900	219,000	316,400	286,400	279,500	146,100	135,500	131,500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2015, BY WATER YEAR (WY)

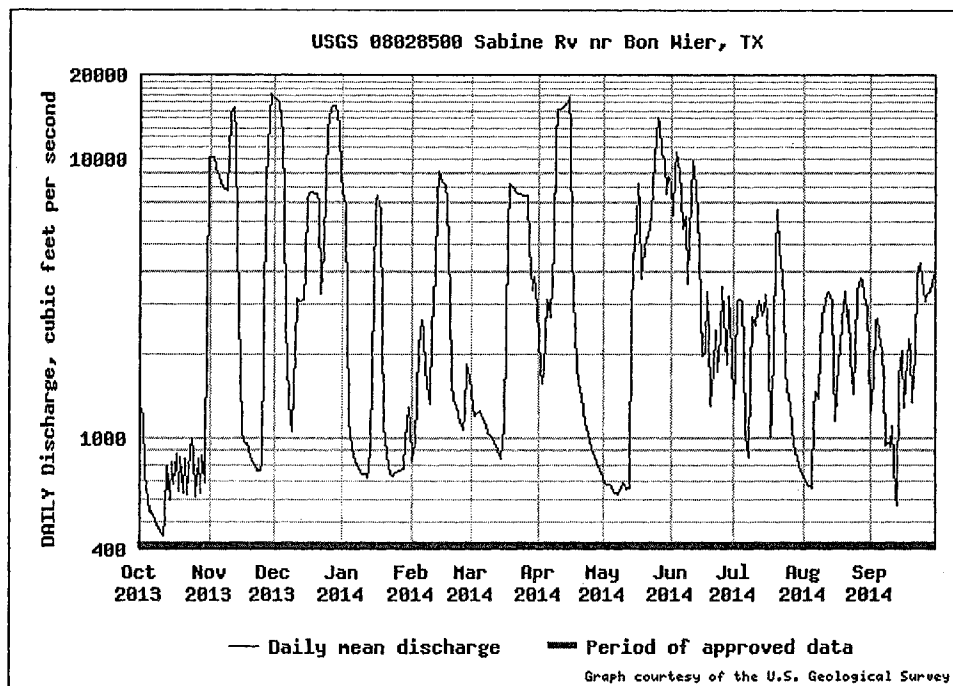
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,980	3,358	6,760	9,274	10,440	11,290	9,069	7,972	5,688	4,801	3,542	3,358
Max	8,948	29,220	21,420	30,930	31,390	46,850	27,370	31,210	26,340	31,490	7,921	12,310
(WY)	(2002)	(2010)	(1983)	(1974)	(1999)	(2001)	(1969)	(1966)	(1989)	(1989)	(2007)	(2001)
Min	189	217	820	988	746	1,159	634	876	663	530	211	206
(WY)	(1968)	(1968)	(2008)	(2008)	(1968)	(2011)	(1971)	(2011)	(1970)	(1964)	(1967)	(1967)

Water-Data Report 2014
 08028500 Sabine River near Bon Wier, TX -- Continued

SUMMARY STATISTICS

	Water Year 2014		Water Years 1961 - 2015	
Annual total	1,395,000			
Annual mean	3,821		6,440	
Highest annual mean			12,670	1975
Lowest annual mean			928.0	2011
Highest daily mean	17,100	Nov 29	98,000	Jul 04, 1989
Lowest daily mean	445.0	Oct 11	134.0	Nov 09, 1966
Annual 7-day minimum	491.0	Oct 06	142.0	Nov 03, 1966
Maximum peak flow	17,200 ^a	Nov 29	98,200 ^a	Jul 04, 1989
Maximum peak stage	25.66	Nov 29	37.90	Jul 04, 1989
Annual runoff (cfsm)	0.464		0.782	
Annual runoff (inches)	6.30		10.6	
10 percent exceeds	9,180		16,700	
50 percent exceeds	2,110		3,310	
90 percent exceeds	720.4		712.0	

^a Discharge affected by Regulation or Diversion





USGS Water-Year Summary 2014

08029500 Big Cow Creek near Newton, TX

LOCATION - Lat 30°49'08", long 93°47'08" referenced to North American Datum of 1983, Newton County, TX, Hydrologic Unit 12010005, on right bank near center of span on downstream side of bridge on State Highway 87, 2.6 mi southwest of Newton, 5.0 mi downstream from Melhomes Creek, and 8.0 mi upstream from White Oak Creek.

DRAINAGE AREA - 128 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD - Apr. 1952 to current year. PERIOD OF RECORD, Water-Quality.-- CHEMICAL DATA: July 1975 to Jan. 1979. SEDIMENT DATA: Dec. 1976 to Jan. 1979.

GAGE - Water-stage recorder. Datum of gage is 134.69 ft above NGVD of 1929. Prior to Dec. 19, 1957, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS - For 2014 water year, records good. No known regulation or diversions. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD - Maximum stage since at least 1907, 27.5 ft in Apr. 1922, from information by local resident.

**U.S. Department of the Interior
U.S. Geological Survey**

Suggested citation: U.S. Geological Survey, 2015, National Water Information System data available on the World Wide Web (USGS Water Data for the Nation), accessed [May 6, 2015], at URL http://nwis.waterdata.usgs.gov/nwis/wys_rpt?dd_parm_cds=001_00060&adr_begin_date=2013-10-01&adr_end_date=2014-09-30&site_no=08029500&agency_cd=USGS

Water-Data Report 2014
 08029500 Big Cow Creek near Newton, TX -- Continued

DISCHARGE, CUBIC FEET PER SECOND
YEAR 2013-10-01 to 2014-09-30
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	2013	2013	2013	2014	2014	2014	2014	2014	2014	2014	2014	2014
1	139	3,140	86	50	54	76	77	27	39	26	17	32
2	58	911	78	50	55	70	66	26	36	22	19	35
3	39	182	73	48	111	66	61	24	36	20	21	32
4	32	111	68	47	163	65	214	23	33	22	20	29
5	30	89	65	48	390	66	177	22	28	28	20	24
6	28	81	62	50	171	63	96	21	26	21	27	20
7	25	93	59	48	101	62	154	21	24	18	25	18
8	23	78	59	47	82	59	117	21	22	16	19	18
9	20	68	58	47	76	57	78	22	22	15	17	17
10	19	61	57	49	82	59	62	26	79	14	15	16
11	18	57	56	51	525	57	55	26	156	14	18	15
12	20	54	54	48	376	53	50	24	94	13	79	15
13	24	50	52	52	194	48	48	46	50	15	42	19
14	34	49	59	81	121	45	71	69	41	30	25	30
15	30	48	69	77	93	46	220	78	36	31	19	27
16	24	50	69	57	78	245	117	57	31	56	17	21
17	23	61	57	50	70	330	74	38	28	56	16	20
18	23	55	53	47	66	135	59	30	27	345	16	28
19	23	51	51	45	63	86	52	29	25	319	16	36
20	22	47	53	44	63	70	48	26	23	96	17	48
21	21	44	83	44	99	61	44	23	22	55	42	34
22	20	45	295	42	92	55	41	21	19	41	49	24
23	19	45	202	42	70	53	38	19	18	33	33	20
24	19	54	105	48	62	50	36	18	19	29	24	18
25	18	86	77	56	58	48	35	17	21	24	20	17
26	17	871	67	60	97	44	33	17	33	22	18	16
27	17	1,020	61	60	150	47	32	35	35	20	16	15
28	17	329	58	56	92	314	31	239	44	18	15	15
29	17	142	56	54		384	30	140	37	17	15	15
30	109	102	53	54		210	28	75	31	17	17	15
31	3,020		51	54		105		50		17	26	
Total	3,948	8,074	2,346	1,606	3,654	3,129	2,244	1,310	1,135	1,470	740	689
Mean	127	269	75.7	51.8	131	101	74.8	42.3	37.8	47.4	23.9	23.0
Max	3020	3140	295	81	525	384	220	239	156	345	79	48
Min	17	44	51	42	54	44	28	17	18	13	15	15
Ac-ft	7,831	16,010	4,653	3,185	7,248	6,206	4,451	2,597	2,251	2,916	1,468	1,366

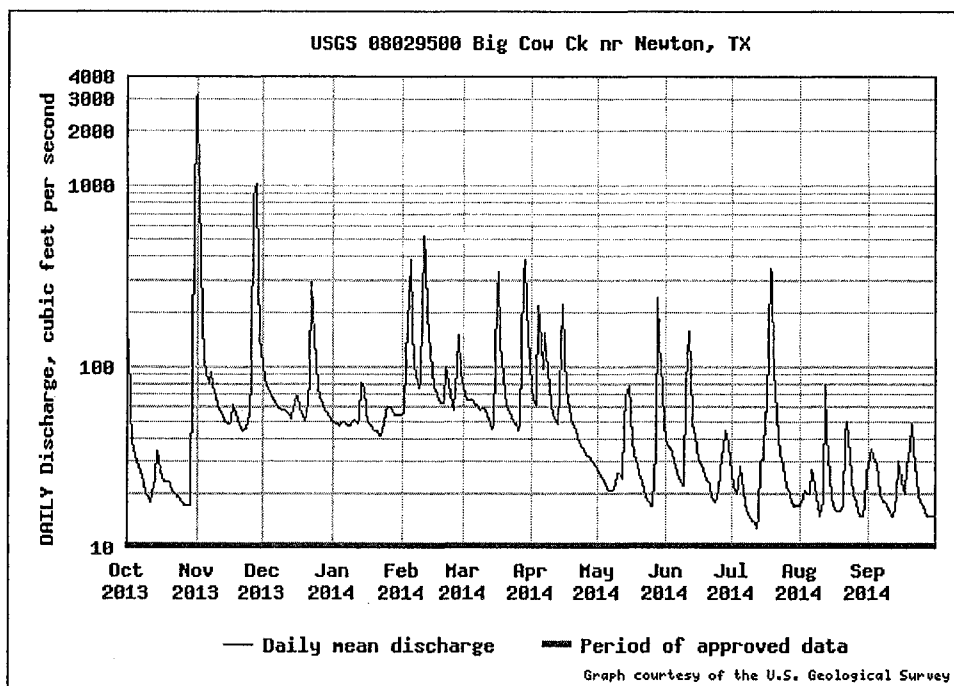
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2015, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	94.8	121	167	179	216	172	158	138	105	69.1	51.7	69.7
Max	1,513	551	489	645	743	500	533	817	414	426	221	491
(WY)	(2007)	(2003)	(1983)	(1974)	(1984)	(2012)	(1953)	(1953)	(1993)	(1989)	(1973)	(1998)
Min	6.18	17.7	39.3	42.2	54.2	35.5	24.7	15.7	10.2	7.57	4.18	11.1
(WY)	(2012)	(2012)	(1982)	(1982)	(2011)	(2013)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)

Water-Data Report 2014
 08029500 Big Cow Creek near Newton, TX -- Continued

SUMMARY STATISTICS

	Water Year 2014		Water Years 1952 - 2015	
Annual total	30,340			
Annual mean	83.1		128.4	
Highest annual mean			278.5	2007
Lowest annual mean			26.7	2011
Highest daily mean	3,140	Nov 01	23,200	Oct 17, 2006
Lowest daily mean	13.0	Jul 12	1.40	Aug 23, 2011
Annual 7-day minimum	15.0	Jul 07	2.36	Aug 17, 2011
Maximum peak flow	6,340	Oct 31	41,500	Oct 17, 2006
Maximum peak stage	17.37	Oct 31	21.09	Oct 17, 2006
Annual runoff (cfsm)	0.650		1.00	
Annual runoff (inches)	8.82		13.6	
10 percent exceeds	113.4		220.0	
50 percent exceeds	47.0		62.0	
90 percent exceeds	17.0		26.0	





USGS Water-Year Summary 2014

08030500 Sabine River near Ruliff, TX

LOCATION - Lat 30°18'13", long 93°44'37" referenced to North American Datum of 1927, Newton County, TX, Hydrologic Unit 12010005, on downstream side of bridge on State Highway 12, 2.4 mi north of Ruliff, 4.2 mi upstream from the Kansas City Southern Railway Co. bridge, 4.5 mi downstream from Cypress Creek and at mile 40.2.

DRAINAGE AREA - 9,329 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD - Oct. 1924 to current year. PERIOD OF RECORD, Water-Quality.-- CHEMICAL DATA: Sept. 1945 to Sept. 1946, Oct. 1947 to Feb. 1999. BIOCHEMICAL DATA: Oct. 1967 to Feb. 1999. BIOLOGICAL DATA: Oct. 1974 to Aug. 1995. PESTICIDE DATA: Feb. 1968 to May 1982. RADIOCHEMICAL DATA: Oct. 1969 to Feb. 1999. SEDIMENT DATA: Oct. 1974 to Aug. 1995. PERIOD OF DAILY RECORD, Water-Quality.-- SPECIFIC CONDUCTANCE: Sept. 1945 to Sept. 1946, Oct. 1947 to Apr. 1999. WATER TEMPERATURE: Oct. 1947 to Apr. 1999. COLOR: Nov. 1969 to Dec. 1975.

REVISED RECORDS - WSP 1282: 1941(M), 1942. WSP 1442: 1925-29, 1937-39, 1943. WSP 1732: Drainage area.

GAGE - Water-stage recorder. Datum of gage is 5.92 ft below NGVD of 1929. Prior to Mar. 1, 1941, nonrecording gage at Kansas City Southern Railway Co. bridge, 4.2 mi downstream and at datum 7.98 ft higher than current datum. Mar. 1, 1941, to Dec. 8, 1948, nonrecording gage at present site and at datum 10.00 ft higher than current datum. Dec. 9, 1948, to Dec. 31, 1989, recording gage at present site and at datum 10.00 ft higher than current datum. Telephone telemeter at station. Satellite telemeter at station.

REMARKS - For 2014 water year, records good. Since water year 1961, at least 10% of contributing drainage area has been regulated. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD - Maximum stage since at least 1835, 32.2 ft in May or June 1884 (adjusted to present site and datum on basis of slope of flood of June 8, 9, 1950); flood of Apr. 26-29, 1913, reached a stage of 29.5 ft, present site and datum, from information by local resident.

EXTREMES FOR PERIOD PRIOR TO REGULATION - WATER YEARS, 1925-1960: Maximum discharge, 121,000 ft³/s, May 22, 1953, gage height, 29.98 ft, current datum; minimum, 270 ft³/s, several days in Sept. and Oct. 1956.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION - 36 years (water years 1925-1960) 8,780 ft³/s (6,359,000 acre-ft/yr).

U.S. Department of the Interior
U.S. Geological Survey

Suggested citation: U.S. Geological Survey, 2015, National Water Information System data available on the World Wide Web (USGS Water Data for the Nation), accessed [March 3, 2015], at URL http://nwis.waterdata.usgs.gov/nwis/wys_rpt?dd_parm_cds=002_00060&adr_begin_date=2013-10-01&adr_end_date=2014-09-30&site_no=08030500&agency_cd=USGS

Water-Data Report 2014
 08030500 Sabine River near Ruliff, TX -- Continued

DISCHARGE, CUBIC FEET PER SECOND
YEAR 2013-10-01 to 2014-09-30
DAILY MEAN VALUES

Day	Oct 2013	Nov 2013	Dec 2013	Jan 2014	Feb 2014	Mar 2014	Apr 2014	May 2014	Jun 2014	Jul 2014	Aug 2014	Sep 2014
1	1,680	5,560	15,700	15,800	1,740	4,230	6,860	1,160	11,700	3,200	984	2,980
2	3,450	10,500	16,500	15,300	1,900	3,800	5,530	1,100	11,200	2,190	933	1,900
3	5,280	13,400	16,800	13,700	1,750	3,260	3,980	1,060	10,700	2,880	889	1,560
4	5,290	15,600	16,900	11,100	1,790	2,940	3,190	1,020	10,100	3,720	860	2,190
5	3,250	16,700	16,900	6,820	2,360	3,030	3,000	1,000	10,200	3,820	837	2,870
6	1,820	16,900	16,900	3,460	3,440	3,310	4,350	977	10,600	3,460	821	2,750
7	1,280	16,100	15,500	2,260	4,490	3,460	5,690	951	10,700	2,160	885	2,380
8	1,090	14,600	10,900	1,900	4,630	3,290	5,630	925	10,100	1,400	1,490	2,370
9	976	13,200	5,660	1,750	3,910	2,940	6,070	915	9,000	1,330	1,340	1,490
10	874	12,200	3,160	1,660	3,150	2,560	8,400	915	8,220	2,420	1,770	1,170
11	798	11,600	2,720	1,650	3,060	2,270	10,500	917	6,400	2,960	2,380	984
12	748	12,000	3,840	1,610	4,740	2,090	12,100	941	7,770	2,990	3,040	1,220
13	746	12,900	4,340	1,580	7,520	1,920	13,300	940	9,450	3,420	3,350	1,300
14	884	14,000	4,480	1,590	9,480	1,770	14,500	926	10,100	3,390	3,590	908
15	926	14,400	4,500	1,790	11,100	1,640	15,300	1,600	9,830	3,280	3,590	997
16	922	12,200	4,850	2,820	12,100	1,650	15,600	3,710	7,620	3,480	2,960	1,920
17	947	7,120	6,810	6,100	12,400	2,150	16,000	5,250	4,540	3,380	1,680	1,940
18	981	3,320	8,560	8,150	12,100	3,590	16,100	6,680	3,000	2,620	1,620	1,590
19	976	2,100	9,420	9,000	11,600	5,770	14,300	7,940	3,280	2,790	2,020	2,060
20	957	1,770	9,830	7,780	10,200	8,150	9,960	7,310	3,740	4,620	2,340	2,440
21	935	1,600	10,100	4,470	6,750	9,470	5,500	5,950	2,550	7,690	3,100	2,000
22	918	1,470	10,400	2,430	4,010	10,100	3,330	5,980	1,860	8,640	3,270	1,640
23	904	1,380	9,660	1,760	3,220	10,300	2,490	6,220	2,530	7,640	2,980	2,990
24	887	1,300	8,310	1,560	2,890	10,300	2,040	6,520	2,620	6,210	2,880	3,890
25	1,030	1,290	9,160	1,470	2,590	10,200	1,800	7,440	2,210	3,990	1,810	4,340
26	1,070	2,000	10,600	1,430	2,480	10,000	1,630	8,510	3,430	2,510	1,890	4,140
27	923	4,510	12,000	1,450	2,810	10,000	1,490	9,740	3,980	1,910	2,630	3,610
28	867	8,750	13,300	1,480	3,840	10,000	1,390	11,000	3,320	1,560	3,640	3,410
29	859	11,900	14,400	1,470		9,710	1,320	12,000	3,320	1,310	3,970	3,530
30	858	14,100	15,200	1,440		8,410	1,240	12,400	4,380	1,150	3,960	3,700
31	1,220		15,700	1,450		7,410		12,400		1,050	3,490	
Total	44,350	274,500	323,100	136,200	152,000	169,700	212,600	144,400	198,400	103,200	71,000	70,270
Mean	1,431	9,149	10,420	4,395	5,430	5,475	7,086	4,658	6,615	3,328	2,290	2,342
Max	5,290	16,900	16,900	15,800	12,400	10,300	16,100	12,400	11,700	8,640	3,970	4,340
Min	746	1,290	2,720	1,429	1,739	1,640	1,240	915	1,860	1,050	821	908
Ac-ft	87,960	544,400	640,900	270,200	301,600	336,600	421,700	286,400	393,600	204,600	140,800	139,400

62,619 ✓

3,768,160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2014, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,831	4,181	8,127	11,080	12,180	12,720	10,570	8,995	6,886	5,641	4,084	4,031
Max	15,310	24,990	22,070	35,570	33,170	48,230	33,240	32,980	26,240	42,320	10,130	12,530
(WY)	(2007)	(2010)	(1983)	(1961)	(1999)	(2001)	(1969)	(1966)	(1989)	(1989)	(2007)	(1998)
Min	292	327	987	1,237	1,344	1,287	946	892	845	805	382	333
(WY)	(1968)	(1968)	(2011)	(2000)	(2000)	(2011)	(2011)	(2011)	(2011)	(1967)	(1967)	(1967)

91,126 ✓

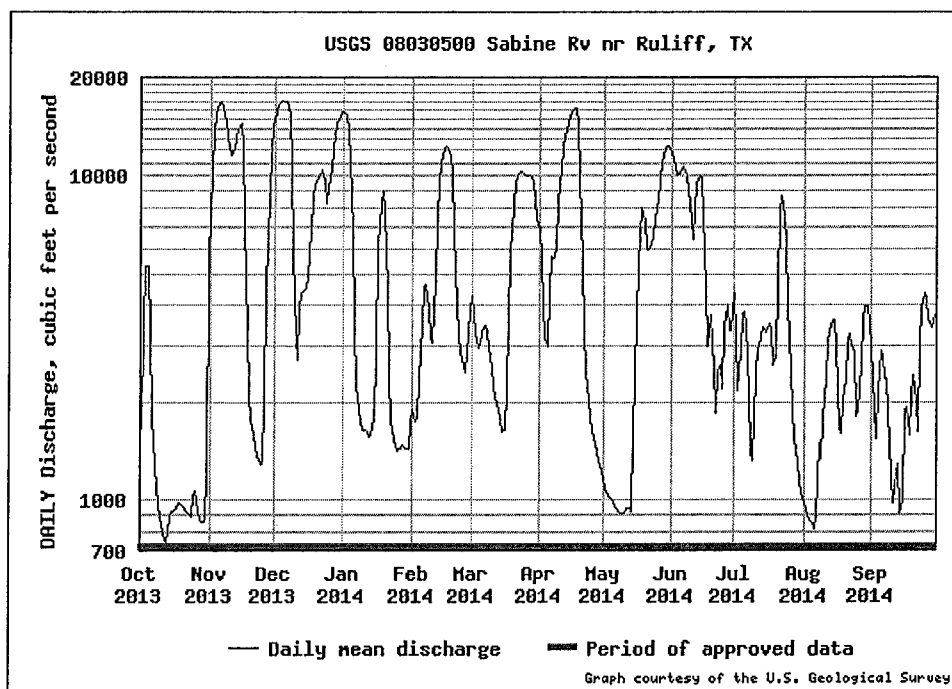
69%

Water-Data Report 2014
 08030500 Sabine River near Ruliff, TX -- Continued

SUMMARY STATISTICS

	Water Year 2014		Water Years 1961 - 2014	
Annual total	1,900,000			
Annual mean	5,205		7,587	
Highest annual mean			14,200	1975
Lowest annual mean			1,057	2011
Highest daily mean	16,900	Dec 06	108,000	Jul 07, 1989
Lowest daily mean	746.0	Oct 13	278.0	Oct 28, 1967
Annual 7-day minimum	842.6	Oct 10	282.4	Oct 09, 1967
Maximum peak flow	17,200 ^a	Nov 06	109,000 ^a	Jul 06, 1989
Maximum peak stage	24.30	Nov 06	29.15	Jul 06, 1989
Annual runoff (cfs)	0.558		0.813	
Annual runoff (inches)	7.57		11.0	
10 percent exceeds	12,200		17,900	
50 percent exceeds	3,320		4,410	
90 percent exceeds	982.8		1,060	

^a Discharge affected by Regulation or Diversion



APPENDIX C

SABINE RIVER COMPACT

The State of Texas and the State of Louisiana, parties signatory to this Compact (hereinafter referred to as "Texas" and "Louisiana," respectively, or individually as a "State," or collectively as the "States"), having resolved to conclude a compact with respect to the waters of the Sabine River, and having appointed representatives as follows:

FOR TEXAS: Henry L. Woodworth, Interstate Compact Commissioner for Texas; and John W. Simmons, President of the Sabine River Authority of Texas;

FOR LOUISIANA: Roy T. Sessums, Director of the Department of Public Works of the State of Louisiana;

and consent to negotiate and enter into the said Compact having been granted by Act of the Congress of the United States approved November 1, 1951 (Public Law No. 252; 82d Congress, First Session), and pursuant thereto the President having designated Louis W. Prentiss as the representative of the United States, the said representatives for Texas and Louisiana, after negotiations participated in by the representative of the United States, have for such Compact agreed upon Articles as hereinafter set forth. The major purposes of this Compact are to provide for an equitable apportionment between the States of Louisiana and Texas of the waters of the Sabine River and its tributaries, thereby removing the causes of present and future controversy between the States over the conservation and utilization of said waters; to encourage the development, conservation and utilization of the water resources of the Sabine River and its tributaries; and to establish a basis for cooperative planning and action by the States for the construction, operation and maintenance of projects for water conservation and utilization purposes on that reach of the Sabine River touching both States, and for apportionment of the benefits therefrom.

ARTICLE I

AS USED IN THIS COMPACT:

- (A.) The Word "Stateline" means the point on the Sabine River where its waters in downstream flow first touch the States of both Louisiana and Texas.
- (B.) The term "waters of the Sabine River" means the waters either originating in the natural drainage basin of the Sabine River, or appearing as streamflow in said River and its tributaries, from its headwater source down to the mouth of the River where it enters into Sabine Lake.
- (C.) The term "Stateline flow" means the flow of waters of the Sabine River as determined by the Logansport gauge located on the U.S. Highway 84, approximately four (4) river

miles downstream from the Stateline. This flow, or the flow as determined by such substitute gauging station as may be established by the Administration, as hereinafter defined, pursuant to the provisions of Article VII of this Compact, shall be deemed the actual Stateline flow.

- (D.) The term "Stateline reach" means that portion of the Sabine River lying between the Stateline and Sabine Lake.
- (E.) The term "the Administration" means the Sabine River Compact Administration established under Article VII.
- (F.) The term "Domestic use" means the use of water by an individual, or by a family unit or household for drinking, cooking, laundering, sanitation, and other personal comforts and necessities; and for the irrigation of an area not to exceed one acre, obtained directly from the Sabine River or its tributaries by an individual or family unit not supplied by a water company, water district, or municipality.
- (G.) The term "stock water use" means the use of water for any and all livestock and poultry.
- (H.) The term "consumptive use" means use of water resulting in its permanent removal from the stream.
- (I.) The terms "'domestic' and 'stock water' reservoir" mean any reservoir for either or both of such uses having a storage capacity of fifty (50) acre feet or less.
- (J.) "Stored water" means water stored in reservoirs (exclusive of domestic or stock water reservoirs) or water withdrawn or released from reservoirs for specific uses and the identifiable return flow from such uses.
- (K.) The term "free water" means all waters other than "stored waters" in the Stateline reach including, but not limited to that appearing as natural stream flow, and not withdrawn or released from a reservoir for specific uses. Waters released from reservoirs for the purpose of maintaining stream flows as provided in Article V, shall be "free water." All reservoir spills or releases of stored waters made in anticipation of spills, shall be free water.
- (L.) Where the name of the State or the term "State" is used in this Compact, it shall be construed to include any person or entity of any nature whatsoever of the States of Louisiana or Texas using, claiming, or in any manner asserting any right to the use of the waters of the Sabine River under the authority of that State.
- (M.) Wherever any State or Federal official or agency is referred to in this Compact, such reference shall apply equally to the comparable official or agency succeeding to their duties and functions.

ARTICLE II

Subject to the provisions of Article X, nothing in this Compact shall be construed as applying to, or interfering with, the right or power of either signatory State to regulate within its boundaries the appropriation, use and control of water, not inconsistent with its obligations under this Compact.

ARTICLE III

Subject to the provisions of Article X, all rights to any of the waters of the Sabine River which have been obtained in accordance with the laws of the States are hereby recognized and affirmed; provided, however, that withdrawals, from time to time, for the satisfaction of such rights, shall be subject to the availability of supply in accordance with the apportionment of water provided under the terms of this Compact.

ARTICLE IV

Texas shall have free and unrestricted use of all waters of the Sabine River and its tributaries above the Stateline subject, however, to the provisions of Articles V and X.

ARTICLE V

Texas and Louisiana hereby agree upon the following apportionment of the waters of the Sabine River:

- (A.) All free water in the Stateline reach shall be divided equally between the two States, this division to be made without reference to the origin.
- (B.) The necessity of maintaining a minimum flow at the Stateline for the benefit of water users below the Stateline in both States is recognized, and to this end, it is hereby agreed that:
 - (1) Reservoirs and permits above the Stateline existing as of January 1, 1953, shall not be liable for maintenance of the flow at the Stateline.
 - (2) After January 1, 1953, neither State shall permit or authorize any additional uses which would have the effect of reducing the flow at the Stateline to less than 36 cubic feet per second.
 - (3) Reservoirs on which construction is commenced after January 1, 1953, above the Stateline shall be liable for their share of water necessary to provide a minimum flow at the Stateline of 36 cubic feet per second; provided that no reservoir shall be liable for a greater percentage of this minimum flow than the percentage of the drainage area above the Stateline contributing to that reservoir, exclusive of the watershed of any reservoir on which construction was started prior to January 1, 1953. Water released from Texas' reservoirs to establish the minimum flow of 36 cubic feet per second shall be classed as free water at the Stateline and divided equally between the two States.

- (C.) The right of each State to construct impoundment reservoirs and other works of improvement on the Sabine River or its tributaries located wholly within its boundaries is hereby recognized.
- (D.) In the event that either State constructs reservoir storage on the tributaries below Stateline after January 1, 1953, there shall be deducted from that State's share of the flow in the Sabine River all reductions in flow resulting from the operation of the tributary storage and conversely such State shall be entitled to the increased flow resulting from the regulation provided by such storage.
- (E.) Each State shall have the right to use the main channel of the Sabine River to convey water stored on the Sabine River or its tributaries located wholly within its boundaries, downstream to a desired point of removal without loss of ownership of such stored waters. In the event that such water is released by a State through the natural channel of a tributary and the channel of the Sabine River to a downstream point of removal, a reduction shall be made in the amount of water which can be withdrawn at the point of removal equal to the transmission losses.
- (F.) Each State shall have the right to withdraw its share of the water from the channel of the Sabine River in the Stateline reach in accordance with Article VII. Neither State shall withdraw at any point more than its share of the flow at that point except that pursuant to findings and determination of the Administration as provided under Article VII of this Compact, either State may withdraw more or less of its share of the water at any point providing that its aggregate withdrawal shall not exceed its total share. Withdrawals made pursuant to this paragraph shall not prejudice or impair the existing rights of users of Sabine River waters.
- (G.) Waters stored in reservoirs constructed by the States in the Stateline reach shall be shared by each State in proportion to its contribution to the cost of storage. Neither State shall have the right to construct a dam on the Stateline reach without the consent of the other State.
- (H.) Each State may vary the rate and manner of withdrawal of its share of such jointly stored waters on the Stateline reach, subject to meeting the obligations for amortization of the cost of the joint storage. In any event, neither State shall withdraw more than its pro-rata share in any one year (a year meaning a water year, October 1 to September 30) except by authority of the Administration. All jointly stored water remaining at the end of a water year shall be reapportioned between the States in the same proportion as their contribution to the cost of storage.
- (I.) Except for jointly stored water, as provided in (H.) above, each State must use its apportionment of the natural stream flows as they occur, and there shall be no allowance of accumulation of credits or debits for or against either State. The failure of either State to use the stream flow or any part thereof, the use of which is apportioned to it under the terms of this Compact, shall not constitute a relinquishment of the right to such use in the future; conversely, the failure of either State to use the water at the time it is available does not give it the right to the flow in excess of its share of the flow at any other time.

- (J.) From the apportionment of waters of the Sabine River as defined in this Article, there shall be excluded from such apportionment all waters consumed in either State for domestic and stock water uses. Domestic and stock water reservoirs shall be so excluded.
- (K.) Each State may use its share of the water apportioned to it in any manner that may be deemed beneficial by that State.

ARTICLE VI

- (A.) The States, through their respective appropriate agencies or subdivisions, may construct jointly, or cooperate with any agency or instrumentality of the United States, in the construction of works on the Stateline reach for the development, conservation, and utilization for all beneficial purposes of the waters of the Sabine River.
- (B.) All monetary revenues growing out of any joint State ownership, title, and interest in works constructed under Section (A.) above and accruing to the States in respect thereof, shall be divided between the States in proportion to their respective contributions to the cost of construction; provided, however, that each State shall retain undivided all its revenues from recreational facilities within its boundaries incidental to the use of the waters of the Sabine River, and from its severally State-owned recreational facilities constructed appurtenant thereto.
- (C.) All operation and maintenance costs chargeable against any joint State ownership, title, and interest in works constructed under Section (A.) above, shall be assessed in proportion to the contribution of each State to the original cost of construction.

ARTICLE VII

- (A.) There is hereby created an inter-State administrative agency to be designated as the "Sabine River Compact Administration" herein referred to as the "Administration."
- (B.) The Administration shall consist of two members from each State and of one member as representative of the United States, chosen by the President of the United States who is hereby requested to appoint such a representative. The United States Member shall be ex-officio chairman of the Administration without vote and shall not be a domiciliary of or reside in either State. The appointed members for Texas and Louisiana shall be designated within thirty days after effective date of this compact.
- (C.) The Texas members shall be appointed by the Governor for a term of six years; provided, however, that one of the original Texas members shall be appointed for a term to establish a half-term interval between the expiration dates of the terms of such members, and thereafter one such member shall be appointed each three years for the regular term. The Louisiana members shall be residents of the Sabine Watershed and shall be appointed by the Governor for a term of four years, which shall run concurrent with the term of the Governor. Each State member shall hold office

subject to the laws of his State or until his successor has been duly appointed and qualified. (As amended by Public Law 87-418, March 16, 1962, and by Public Law 102-575, October 30, 1992).

- (D.) Interim vacancy, for whatever cause, in the office of any member of the Administration shall be filled for the unexpired term in the same manner as hereinabove provided for regular appointment.
- (E.) Within sixty days after the effective date of this Compact, the Administration shall meet and organize. A quorum for any meeting shall consist of three voting members of the Administration. Each State member shall have one vote, and every decision, authorization, determination, order, or other action, shall require the concurring votes of at least three members.
- (F.) The Administration shall have power to:
 - (1) Adopt, amend, and revoke by-laws, rules, and regulations, and prescribe procedures for administration of and consistent with the provisions of this Compact;
 - (2) Fix and determine from time to time the location of the Administration's principal office;
 - (3) Employ such engineering, legal, clerical, and other personnel without regard to the civil service laws of either State, as the Administration may determine necessary or proper to supplement State-furnished assistance as hereinafter provided, for the performance of its functions under this Compact; provided that such employees shall be paid by and be responsible to the Administration and shall not be considered to be employees of either State.
 - (4) Procure such equipment, supplies, and technical assistance as the Administration may determine to be necessary or proper to supplement State-furnished assistance as hereinafter provided, for the performance of its functions under this Compact;
 - (5) Adopt a seal which shall be judicially recognized.
- (G.) In cooperation with the chief official administering water rights in each State and with appropriate Federal agencies, the Administration shall have and perform powers and duties as follows:
 - (1) To collect, analyze, correlate, compile and report on data as to water supplies, stream flows, storage, diversions, salvage and use of the waters of the Sabine River and its tributaries, and as to all factual data necessary or proper for the administration of this Compact;
 - (2) To designate as official stations for the administration of this Compact such existing water gauging stations (and to operate, maintain, repair and abandon

the same), and to locate, establish, construct, operate, maintain, repair and abandon additional such stations as the Administration may from time to time find and determine necessary or appropriate;

- (3) To make findings as to the deliveries of water at Stateline, as hereinabove provided, from the stream-flow records of the Stateline gauge which shall be operated and maintained by the Administration or in cooperation with the appropriate Federal Agency, for determination of the actual Stateline flow, unless the Administration shall find and determine that, because of changed physical conditions, or for any other reason, reliable records are not obtainable thereat; in which case, such existing Stateline station may, with the approval of the Administration, be abandoned, and, with such approval, a substitute Stateline station established in lieu thereof;
- (4) To make findings as to the quantities of reservoir storage, (including joint storage) and releases therefrom; diversions, transmission losses and as to incident stream-flow changes; and as to the share of such quantities chargeable against or allocable to the respective States;
- (5) To record and approve all points of diversion at which water is to be removed from the Sabine River or its tributaries below the Stateline; provided that, in any case, the State agency charged with the administration of the water laws for the State in which such point of diversion is located shall first have approved such point for removal or diversion; provided further that any such point of removal or diversion once jointly approved by the appropriate State agency and the Administration shall not thereafter be changed without the joint amendatory approval of such State agency and the Administration;
- (6) To require water users at their expense to install and maintain measuring devices of approved type in any ditch, pumping station, or other water diversion works on the Sabine River or its tributaries below the Stateline, as the Administration may determine necessary or proper for the purposes of this Compact; provided that the chief official of each State charged with the administration of water rights therein shall supervise the execution and enforcement of the Administration's requirements for such measuring devices;
- (7) To investigate any violation of this Compact and to report findings and recommendations thereon to the chief official of the affected State charged with the administration of water rights, or to the Governor of such State as the Administration may deem proper;
- (8) To acquire, hold, occupy and utilize such personal and real property as may be necessary or proper for the performance of its duties and functions under this Compact;
- (9) To perform all functions required of the Administration by this Compact, and to do all things necessary, proper, or convenient in the performance of its duties hereunder.

- (H.) Each State shall provide such available facilities, supplies, equipment, technical information, and other assistance, as the Administration may require to carry out its duties and functions, and the execution and enforcement of the Administration's orders shall be the responsibility of the agents and officials of the respective States charged with the administration of water rights therein. State officials shall furnish pertinent factual and technical data to the Administration upon its request.
- (I.) Findings of fact made by the Administration shall not be conclusive in any court or before any agency or tribunal, but shall constitute prima facie evidence of such facts.
- (J.) In the case of a tie vote on any of the Administration's determinations, orders or other actions subject to arbitration, then arbitration shall be a condition precedent to any right of legal action. Either side of a tie vote may, upon request, submit the question to arbitration. If there shall be arbitration, there shall be three arbitrators: one named in writing by each side, and the third chosen by the two arbitrators so elected. If the arbitrators fail to select a third within ten days, then he shall be chosen by the Representative of the United States.
- (K.) The salaries, if any, and the personal expenses of each member of the Administration shall be paid by the Government which he represents. All other expenses incident to the Administration of this Compact, and which are not paid by the United States, shall be borne equally by the States. Ninety days prior to the Regular Session of the Legislature of either State, the Administration shall adopt and transmit to the Governor of such State for his approval its budget covering anticipated expenses for the forthcoming biennium, and the amount thereof payable by such State. Upon approval by its Governor, each State shall appropriate and pay the amount due by it to the Administration. The Administration shall keep accurate accounts of all receipts and disbursements, and shall include a statement thereof, together with a certificate of audit by a certified public accountant, in its annual report. Each State shall have the right to make an examination and audit of the accounts of the Administration at any time.
- (L.) The Administration shall, whenever requested, provide access to its records by the Governor of either State, or by the chief official of either State charged therein with the administration of water rights. The Administration shall annually on or before January 15 of each year make and transmit to the Governors of the signatory States, and to the President of the United States a report of the Administration's activities and deliberations for the preceding year.

ARTICLE VIII

- (A.) This Compact shall become effective when ratified by the Legislature and approved by the Governors of both States, and when approved by the Congress of the United States.
- (B.) The provisions of this Compact shall remain in full force and effect until modified, altered, or amended in the same manner as hereinabove required for ratification

thereof. The right so to modify, alter, or amend this Compact is expressly reserved. This Compact may be terminated at any time by mutual consent of the signatory States. In the event this Compact is terminated as herein provided, all rights then vested hereunder shall continue unimpaired.

- (C.) Should a court of competent jurisdiction hold any part of this Compact to be contrary to the constitution of any signatory State or of the United States of America, all other severable provisions of this Compact shall continue in full force and effect.

ARTICLE IX

This Compact is made and entered into for the sole purpose of effecting an equitable apportionment and providing beneficial uses of the waters of the Sabine River, its tributaries, and its watershed, without regard to the boundary between Louisiana and Texas, and nothing herein contained shall be construed as an admission on the part of either State or any agency, commission, department or subdivision thereof, respecting the location of said boundary; and neither this Compact nor any data compiled for the preparation or administration thereof shall be offered, admitted, or considered in evidence in any dispute, controversy, or litigation bearing upon the matter of the location of said boundary.

The term "Stateline," as defined in this Compact, shall not be construed to define the actual boundary between the State of Texas and the State of Louisiana.

ARTICLE X

Nothing in this Compact shall be construed as affecting in any manner any present or future rights or powers of the United States, its agencies or instrumentalities in, to, and over the waters of the Sabine River Basin.

IN WITNESS WHEREOF, the Representatives have executed this Compact in three counterparts hereof, each of which shall be and constitute an original; one of which shall be forwarded to the Administrator, General Services Administration of the United States of America, and one of which shall be forwarded to the Governor of each State.

DONE IN THE City of Logansport, in the State of Louisiana, this 26th day of January, 1953.

HENRY L. WOODWORTH, Representative for the State of Texas

JOHN W. SIMMONS, Representative for the State of Texas

ROY T. SESSUMS, Representative for the State of Louisiana

APPROVED: LOUIS W. PRENTISS, Representative of the United States

APPENDIX D

BY-LAWS of Sabine River Compact Administration

ARTICLE I THE ADMINISTRATION

1. The Administration shall be that administration referred to in Article VII of the Sabine River Compact.
2. The credentials of each Member shall be filed with the Secretary of the Administration.
3. Each Member shall advise the office of the Administration in writing the address to which all official notices and other communications of the Administration shall be sent and shall further promptly advise the office of the Administration in writing of any change in such address.

ARTICLE II OFFICERS

1. The officers of the Administration shall be: Chairman, Vice-Chairman, Secretary, and Treasurer.
2. The Representative of the United States shall be the Chairman of the Administration. The Chairman shall preside at meetings of the Administration. The Chairman's duties shall be such as are usually imposed upon such officers, and such as may be assigned by these By-Laws, or by the Administration from time to time; provided, however, that the Representative of the United States shall not have the right to vote.
- 2A. The Vice-Chairman shall be a member of the Administration and shall be elected by the Administration. The Vice-Chairman, once elected, shall serve a term expiring with their appointment or until such time as replaced by the Administration. The Vice-Chairman shall preside at any meeting in the absence of the Chairman and shall perform all duties of the Chairman. In the case of a vacancy in the office of Vice-Chairman, the Administration shall proceed as expeditiously as possible to elect a new Vice-Chairman.
3. The Secretary may be a Member of the Administration. The Secretary shall be elected by the Administration. The Secretary shall serve for such term and receive such salary and perform such duties as the Administration may direct. In the case of vacancy in the office of Secretary, the Administration shall proceed as expeditiously as possible to elect a new Secretary.

4. The Treasurer may be a Member of the Administration. The Treasurer shall receive, hold and disburse all funds of the Administration; and the Treasurer shall furnish a bond for the faithful performance of the Treasurer's duties in such amount as the Administration may direct. The cost of such bond shall be paid by the Administration. The Treasurer shall keep an accurate account of all funds of the Administration in a well bound book.

ARTICLE III PRINCIPAL OFFICE

1. There shall be a principal office of the Administration located in the office of the Secretary of the Administration and such other offices as may be designated by the Administration from time to time as necessary.
2. The principal office shall be open for business on such hours and on such days as the Administration may from time to time direct.
3. All permanent books and records of the Administration shall be kept in the principal office of the Administration in a fireproof vault.

ARTICLE IV MEETINGS

1. The annual meeting of the Administration shall be held during the month of November of each year.
2. A schedule of regular meetings shall be adopted by the Administration from time to time together with the place where such meetings shall be held.
3. Special Meetings of the Administration may be called by the Chairman at any time. Upon written request of any two Members of the Administration, setting forth the matters to be considered at such Special Meetings, it shall be the duty of the Chairman to call a Special Meeting and designate the place of such Special Meeting. In the case of a vacancy in the office of Chairman or inability of the Chairman to act, the Vice-Chairman may call special meetings at the written request of any two Members of the Administration and designate the place of such Special Meetings.
4. Notice of all Meetings of the Administration shall be sent by the Secretary, or in the case of a vacancy in the Office of the Secretary to act, by the Chairman, to all Members of the Administration and, for informational purposes, to the Secretary of State of the States of Louisiana and Texas, by ordinary mail at least ten days in advance of each such meeting, and such notice shall state the purpose thereof. Any other matter deemed pertinent by the Administration may be considered at any such Meeting.
5. All meetings of the Administration shall be held at such place as shall be agreed upon by the Members of the Administration.

6. Minutes of the Administration shall be preserved in a suitable manner. Minutes, until approved, shall not be official, and shall be furnished only to Members of the Administration, its employees, and committees.
7. A quorum for any meeting shall consist of three voting Members of the Administration. Each State Member shall have one vote, and every decision, authorization, determination, order, or other action, shall require the concurring votes of at least three members.
8. At each regular meeting or annual meeting of the Administration, the order of business, unless agreed otherwise, shall be as follows:
 - Call to Order
 - Reading of Unapproved Minutes
 - Approval of Unapproved Minutes
 - Report of Chairman
 - Report of Secretary
 - Report of Treasurer
 - Report of Committees
 - Unfinished Business
 - New Business
 - Adjournment
9. All meetings of the Administration except Executive Sessions shall be open to the public. Executive Sessions shall be open only to Members of the Administration and such advisors as may be designated by each Member and employees as permitted by the Administration; provided, however, that the Administration may call witnesses before it when in such Sessions.
10. Any meeting of the Administration may be recessed from time to time and from the place set for the meeting to another place.

ARTICLE V COMMITTEES

1. There shall be the following standing committees:
 - Budget Committee
 - Engineering Committee
 - Legal Committee
2. The standing committees shall have the following duties:
 - a. The Budget Committee shall prepare the annual budget and shall advise the Administration on all fiscal matters that may be referred to it.

- b. The Engineering Committee shall advise the Administration on all engineering matters that may be referred to it, and shall compile all pertinent engineering data and records.
 - c. The Legal Committee shall advise the Administration on all legal matters that may be referred to it.
3. Members of the Committees may or may not be Members of the Administration. The number of Members of each committee shall be determined from time to time by the Administration. The two Members of the Administration from each State shall designate the member or members on each Committee representing their State.
 4. The Chairman shall be ex-officio member of all Committees.
 5. The Chairman of each Committee shall be elected by the members of the Committee from its membership.
 6. The Administration may from time to time create special committees, composed of such members and others, and assigned such tasks as the Administration may determine.
 7. Formal committee reports shall be made in writing and filed with the Administration.

ARTICLE VI RULES AND REGULATIONS

1. The Administration shall adopt rules and regulations consistent with the Sabine River Compact, and, in addition thereto, shall prescribe procedures for approval of all points of diversion of water from the Sabine River and for such other matters as may properly come before the Administration.
2. Rules and regulations of the Administration may be compiled, and copies may be prepared for distribution to the public under such terms and conditions as the Administration may prescribe.

ARTICLE VII FISCAL

1. All funds of the Administration shall be received by the Treasurer and deposited by him to the credit of the Administration in a depository or depositories designated by the Administration.
2. Disbursements of funds in the hands of the Treasurer shall be made by check, signed by him, upon voucher approved by the Members of the Administration.

3. On or before the 30th of June of each year, the Administration shall adopt and transmit a budget pursuant to the Sabine River Compact covering anticipated expenses for the forthcoming fiscal year, and the amount thereof payable by each State.
4. All receipts and disbursements of the Administration shall be audited annually by a qualified independent certified public accountant to be selected by the Administration.
5. The Administration shall include a statement of receipts and disbursements, together with a certificate of an audit report by a certified public accountant in its annual report.
6. An up-to-date inventory of all the property of the Administration shall be kept at the principal office of the Administration.
7. The fiscal year of the Administration shall begin September 1 of each year, and end August 31 of the next succeeding year.

ARTICLE VIII ANNUAL REPORT

1. The Administration shall make and transmit to the Governors of the States signatory to the Sabine River Compact and to the President of the United States a report of the Administration's activities and deliberations for the preceding year, which shall be made on or before January 15 of each year.
2. The annual report shall include, among other things, the following:
 - a. The estimated budget
 - b. Report of annual audit
 - c. All hydrologic data which the Administration deems pertinent
 - d. Statements as to cooperative studies of water supplies made during the preceding year
 - e. All findings of fact made by the Administration during the preceding year
 - f. Such other pertinent matters as the Administration may require

ARTICLE IX SEAL

1. The Administration shall have a seal which shall be a circular seal with the words "Sabine River Compact Administration" imprinted around the border.
2. The seal of the Administration shall be kept at the principal office of the Administration.

3. The seal shall be affixed to all contracts or other official instruments in writing, and no such instrument or contract in writing shall be binding upon the Administration without such seal affixed thereto.

ARTICLE X MISCELLANEOUS

1. All contracts or other instruments in writing to be signed for and on behalf of the Administration, except matters relating to the receipt or disbursement of funds, shall be signed by those officers as designated by the Administration from time to time.
2. The Administration shall designate as official stations such existing water-gauging stations, and establish such additional water-gauging stations as may from time to time be necessary or appropriate for the Administration of the Sabine River Compact, provided such designation shall include a gauging station located at stateline, as defined in said Compact. Provided, further, such stateline station may, with the approval of the Administration, be abandoned; and with such approval, a substitute stateline station established in lieu thereof.

ARTICLE XI AMENDMENTS TO BY-LAWS

Amendments to the By-Laws may be made at any meeting of the Administration, provided notice of the proposed amendment shall have been given in the notice of the meeting.

APPENDIX E

RULES AND REGULATIONS

The following rules and regulations, adopted December 13, 1955, amended June 14, 1985, and amended October 25, 2013 shall have binding force, subject to the provisions of the Sabine River Compact. They shall be constructed and enforced by the Sabine River Compact Administration in the manner best calculated to fairly and impartially accomplish the purposes for which the Compact was adopted:

1. Each State will provide annual surface water-use data for the stateline reach of the Sabine River Basin by April 15 of the following year. In addition, each State will provide daily or weekly surface water-use data for specific areas in the Stateline reach, when requested by the Administration in response to an official complaint that water-use by one State is preventing the other State from diverting or using its share of the joint water supply.
2. By December 31, 1985 each signatory State shall have submitted to the Administration documentation of each existing water use from the Sabine River and tributaries within the area subject to Compact administration. The documentation for each water-use project shall include the purpose of use, the location of the diversion point, the rate and method of diversion, the maximum quantity of water to be derived annually, the measuring device approved and/or in use, any other pertinent features or special conditions of the project and, where available, a description of the legal bases for the water use authorization. This documentation shall also be provided to the other State.
3. The Administration, through the procedures described herein, shall approve points of diversion and diversion measuring devices, and advise each State when the Administration considers new water uses in each State to have significant potential to cause a Compact violation based upon historic flow conditions.
 - a. All water-use projects in Texas or Louisiana initiated after the effective date of these rules or not timely submitted pursuant to Rule No. 2 above and subject to Compact Administration, shall be submitted by the appropriate State to the Administration for review. The information submitted shall include a description of the legal basis for the water use, the purpose of use, the location of the diversion point, the rate and method of diversion, the maximum quantity of water to be diverted annually, the measuring device approved and/or in use, and any other pertinent features or special conditions of the project.
 - b. The water-use projects first shall be reviewed by the Secretary of the Administration. The Secretary will determine if all required information has been submitted by the State in which the project is located and will provide all such information to the other State for comments. Comments by the other State shall be submitted to the Secretary, with a copy to the

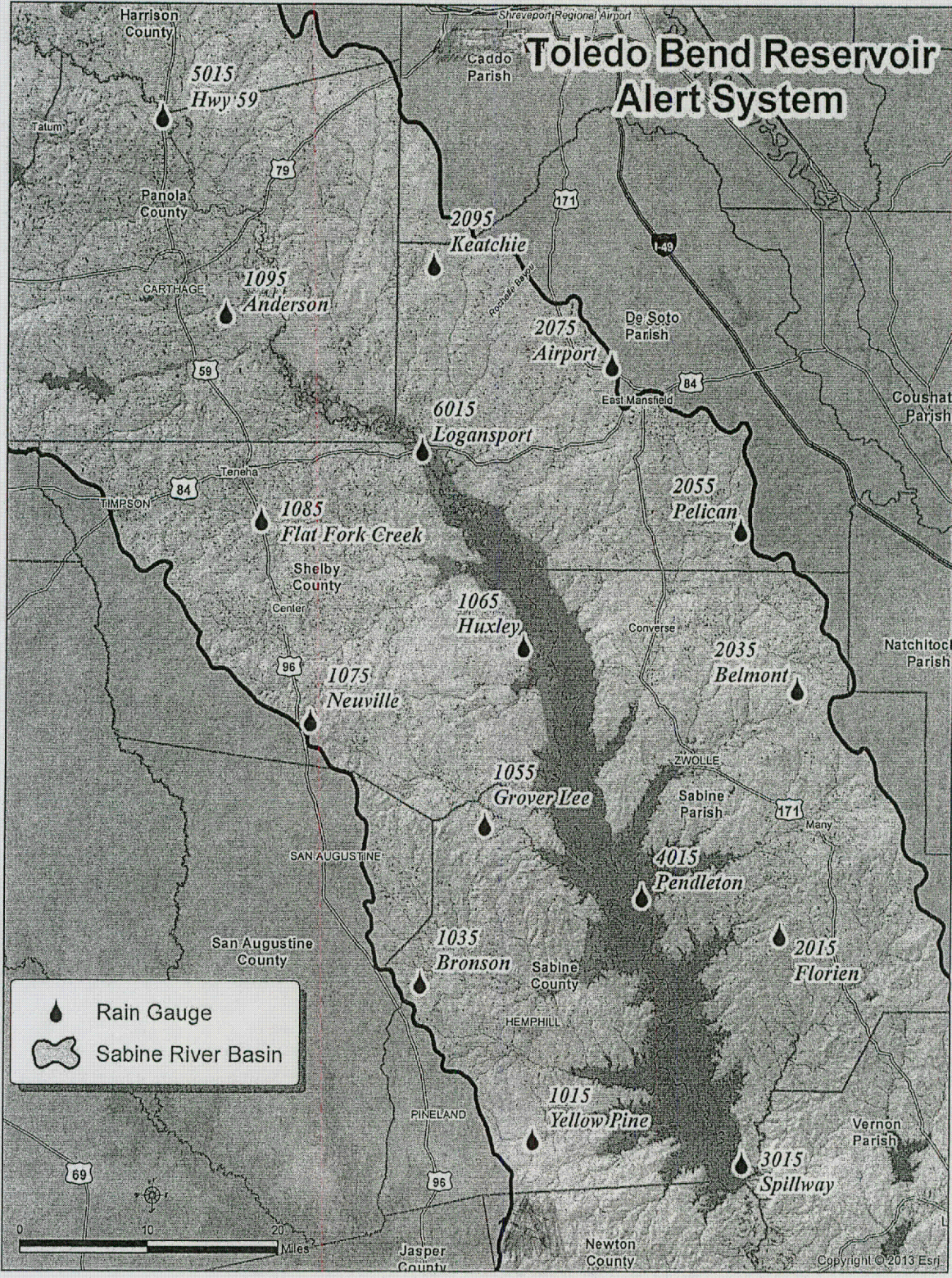
State which submitted the project. The Secretary shall submit complete water-use project data and any State comments to the Engineering Committee members.

- c. The Engineering Committee will review the water-use projects and report its findings directly to the Compact Administration if the project is undisputed, or to a joint session of the Engineering and Legal Committees if a portion of the project is questioned. If the Engineering Committee concludes that a project may have a significant potential for causing a Compact violation, it shall specify the flow conditions under which a potential violation could occur. The Engineering and Legal Committees will jointly report to the Compact Administration on any projects reviewed by them.
 - d. The Administration will vote on whether to approve diversion points and measuring devices, and on whether to inform the States that the Administration considers a water-use project to create a significant potential for causing a Compact violation. The findings of the Commission shall be provided to each State.
4. All points of diversion, if not in violation of the Sabine River Compact, shall be approved by the Administration. Disapproval shall not be used in an attempt to interfere with the right of either State to regulate within its boundaries the appropriation, use, and control of water not inconsistent with its obligation under the Compact.
5. The Administration shall deem a water-use project to create a significant potential for causing a Compact violation only if such project would exceed the amount estimated by the Administration as available for each State to use, considering the location of the diversion point, the flows of water available, and existing water uses. In furtherance of this advisory function, the Engineering Committee shall collect available flow and basin model data to estimate a range of flows available for use by each State in various reaches of the stateline based upon historical flow figures. A finding by the Administration regarding the potential of a water-use project to create a Compact violation shall in no way be deemed to interfere with the rights of Texas and Louisiana to apportion water within their respective states. However, the State in which such water-use project is located may be required by the Administration to monitor and report on a more frequent basis the diversions and flows in the affected reach of the streams in order to provide a higher degree of assurance of compliance with the terms of the Compact.
6. In accordance with ARTICLE VII (G) (6) of the Sabine River Compact, it shall be the policy of the Sabine River Compact Administration to require measuring equipment for all diverters subject to the terms of the Compact. Such measuring equipment shall be properly equipped with meters and devices of standard types to accurately measure the quantity of water diverted within generally accepted industry standards for accuracy, or as established by

the American Water Works Association. The measuring equipment so installed shall be properly maintained and shall be calibrated on a frequency as required for such equipment by the Administration. Metering devices shall be installed and maintained at the user's expense. The chief official of each state charged with the administration of water rights therein shall supervise the execution and enforcement of the Administration's standards for and requirements to install such metering devices.

7. The Administration may order a public hearing on any matter pending before it when it feels the public interest will be best served thereby.
8. All hearings shall be public, and the Administration shall hear any interested party and give due consideration to any pleadings, statements, or other offerings made by him. The Administration may waive formal rules of evidence.
9. Hearings by the Administration on any matter shall be conducted at such times and places as may be ordered by the Administration.
10. The Administration shall prepare and issue a notice of hearing after a resolution or order is entered in the minutes, setting the matter to be heard by public hearing. The notice of hearing shall be delivered or mailed to all interested parties at least fifteen days in advance of such hearing.
11. In the event anyone should desire to protest or oppose any matter pending before the Administration, a protest or opposition shall be filed with the Administration at least five days before the date on which the subject has been set for hearing.
12. Investigations of violations of the Compact shall be made by any member to the Administration or by any committee or employee therefore as directed by the Administration.
13. Stateline Flow
 - a. "Beckville Gauge" means the United States Geological Survey gauge, Station No. 08022040 – Sabine River near Beckville, Texas.
 - b. The flow at Stateline is to be estimated based on the daily mean flow rate at the Beckville Gauge for flow rates at the Beckville Gauge ranging from 7 cfs to 24 cfs, as: $Q_{\text{Stateline}} = 5.39 + 1.42 Q_{\text{Beckville Gauge}}$. For example, a daily mean discharge of 21.56 cfs at the Beckville Gauge would yield a discharge at Stateline of $5.39 + (1.42)(21.56)$ which equals 36 cfs.

APPENDIX F



LOCATION OF TOLEDO BEND TRANSMITTING WEATHER STATIONS

ID#	NAME	LATITUDE	LONGITUDE
1015	YELLOW PINE	31° 13' 11.8"	93° 50' 49.6"
1035	BRONSON	31° 23' 29"	93° 59' 52"
1055	GROVER LEE	31° 33' 55"	93° 54' 57"
1065	HUXLEY	31° 45' 37.2"	93° 52' 06.7"
1075	NEUVILLE	31° 40' 33"	94° 08' 50"
1085	FLAT FORK CREEK	31° 53' 38.2"	94° 12' 55.4"
1095	ANDERSON	32° 07' 00"	94° 15' 59"
2015	FLORIEN	31° 26' 53"	93° 31' 35"
2035	BELMONT	31° 43' 00"	93° 30' 26"
2055	PELICAN	31° 53' 23"	93° 35' 00"
2075	AIRPORT	32° 04' 00"	93° 45' 22"
2095	KEATCHIE	32° 10' 22"	93° 59' 40"
3015	SPILLWAY	31° 11' 47.3"	93° 34' 18.6"
4015	PENDLETON	31° 29' 20"	93° 42' 24"
5015	HWY. 59	32° 19' 38"	94° 21' 16"
6015	LOGANSPORT	31° 58' 20"	94° 00' 22"

Station #4015, Site 11, has been relocated to approximate latitude of 31°29'20" and longitude 93°42'24" and renamed Pendleton. It is no longer a Weather station and is now only a Rain gage. This new location is north of LA Hwy. 6 immediately across the roadway from the SRALA Administrative Office located on the south side of LA Hwy. 6 at the east end of the Pendleton Bridge.

WATER YEAR 13-14

AVG IS THE LONG TERM AVERAGE BASED ON THE TEN YEAR PERIOD OF WY 97-98 THROUGH WY 06-07 FROM THE 2008 ANNUAL REPORT

MONTH	BELMONT (ID# 2035)			PELICAN (ID# 2055)			AIRPORT (ID# 2075)			KEATCHIE (ID# 2095)		
	RAIN	AVG	DIFF	RAIN	AVG	DIFF	RAIN	AVG	DIFF	RAIN	AVG	DIFF
OCT 13	6.18	4.186	1.994	8.23	3.969	4.261	5.16	4.220	0.940	4.69	4.172	0.518
NOV	5.16	5.698	-0.538	5.91	5.559	0.351	2.80	4.732	-1.932	4.45	4.831	-0.381
DEC	4.02	6.441	-2.421	3.27	5.730	-2.460	3.54	4.941	-1.401	3.90	5.086	-1.186
JAN	1.02	5.737	-4.717	0.47	5.110	-4.640	0.12	4.960	-4.840	0.12	5.413	-5.293
FEB	3.15	5.199	-2.049	3.82	5.074	-1.254	2.09	4.807	-2.717	2.17	4.524	-2.354
MAR	4.88	4.094	0.786	4.25	4.388	-0.138	2.64	4.121	-1.481	3.03	4.026	-0.996
APR	4.29	3.417	0.873	6.10	2.999	3.101	3.15	3.619	-0.469	3.66	3.174	0.486
MAY	5.16	2.948	2.212	7.60	2.917	4.683	3.23	2.593	0.637	6.42	3.386	3.034
JUN	3.82	4.851	-1.031	6.26	3.917	2.343	3.98	4.980	-1.000	4.17	4.099	0.071
JUL	1.65	3.554	-1.904	2.24	3.594	-1.354	0.59	2.330	-1.740	0.98	3.275	-2.295
AUG	2.13	3.454	-1.324	0.51	2.409	-1.899	0.00	2.161	-2.161	0.00	1.753	-1.753
SEP 14	0.35	3.547	-3.197	1.93	3.896	-1.966	0.00	3.419	-3.419	0.31	4.343	-4.033
TOTAL	41.81	53.126	-11.316	50.59	49.562	1.028	27.30	46.883	-19.583	33.90	48.082	-14.182
CHECK			-11.316			1.028			-19.583			-14.182

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MONTH	SPILLWAY (ID# 3015)			PENDLETON (ID# 4015)			HIGHWAY 59 (ID# 5015)			LOGANSFORT (ID# 6015)		
	RAIN	AVG	DIFF	RAIN	AVG	DIFF	RAIN	AVG	DIFF	RAIN	AVG	DIFF
OCT 13	2.20	4.268	-2.068	7.40	3.172	4.228	7.76	3.591	4.169	6.18	3.423	2.757
NOV	2.76	5.062	-2.302	5.43	3.397	2.033	4.96	4.367	0.593	4.92	4.371	0.549
DEC	2.71	4.922	-2.212	2.92	3.122	-0.202	4.84	4.580	0.260	3.54	5.377	-1.837
JAN	3.36	3.643	-0.283	1.06	3.575	-2.515	0.12	4.288	-4.168	0.16	5.137	-4.977
FEB	3.45	3.457	-0.007	2.91	2.186	0.724	1.93	4.004	-2.074	1.77	5.105	-3.335
MAR	2.64	3.973	-1.333	7.01	2.579	4.431	1.85	4.449	-2.599	2.72	4.183	-1.463
APR	5.60	2.836	2.764	2.01	2.481	-0.471	1.89	2.740	-0.850	2.68	3.342	-0.662
MAY	5.12	2.314	2.806	6.34	2.086	4.254	5.79	3.103	2.687	4.37	2.764	1.606
JUN	8.35	4.426	3.924	3.35	2.351	0.999	3.23	4.649	-1.419	6.65	5.102	1.548
JUL	5.24	3.327	1.913	3.39	1.144	2.246	1.97	3.011	-1.041	2.56	3.064	-0.504
AUG	3.50	1.938	1.562	1.30	0.847	0.453	0.04	1.822	-1.782	0.00	1.456	-1.456
SEP 14	5.30	3.113	2.187	0.08	1.622	-1.542	0.00	3.519	-3.519	0.31	3.577	-3.267
TOTAL	50.23	43.279	6.951	43.20	28.562	14.638	34.38	44.123	-9.743	35.86	46.901	-11.041
CHECK			6.951			14.638			-9.743			-11.041

WATER YEAR 13-14

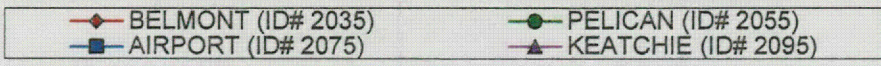
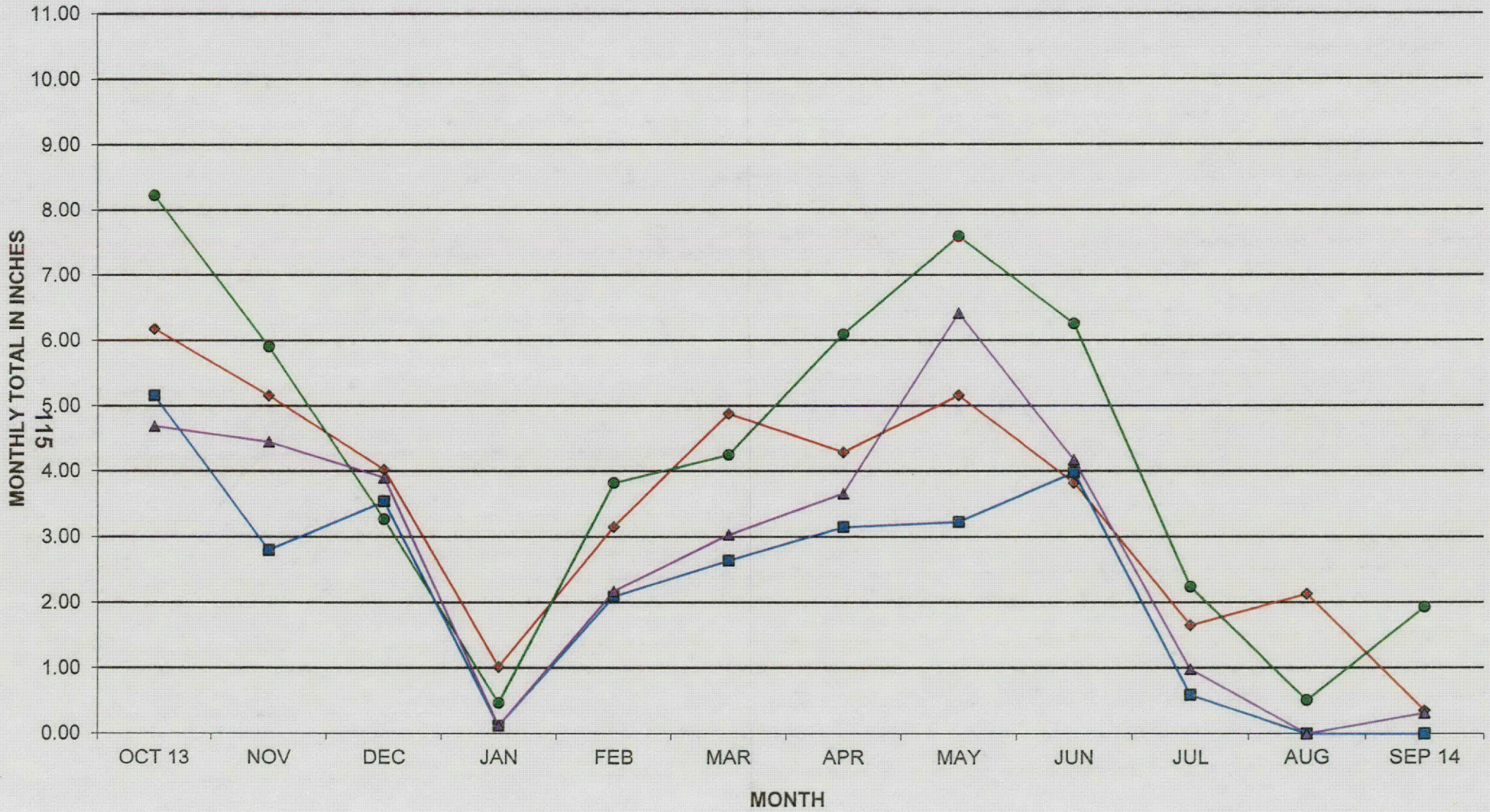
AVG IS THE LONG TERM AVERAGE BASED ON THE TEN YEAR PERIOD OF WY 97-98 THROUGH WY 06-07 FROM THE 2008 ANNUAL REPORT

MONTH	YELLOW PINE (ID# 1015)			BRONSON (ID# 1035)			GROVER LEE (ID# 1055)			HUXLEY (ID# 1065)		
	RAIN	AVG	DIFF	RAIN	AVG	DIFF	RAIN	AVG	DIFF	RAIN	AVG	DIFF
OCT 13	5.94	4.432	1.508	5.75	4.224	1.526	6.46	4.342	2.118	6.57	3.276	3.294
NOV	3.94	5.216	-1.276	4.49	5.851	-1.361	5.39	5.231	0.159	5.00	5.697	-0.697
DEC	1.34	4.639	-3.299	2.44	5.090	-2.650	2.76	5.208	-2.448	3.07	4.973	-1.903
JAN	1.81	4.499	-2.689	0.63	4.570	-3.940	0.55	4.614	-4.064	0.35	5.161	-4.811
FEB	2.28	3.231	-0.951	2.91	3.752	-0.842	3.54	4.316	-0.776	3.74	4.583	-0.843
MAR	2.48	3.910	-1.430	3.86	4.649	-0.789	3.15	4.214	-1.064	4.69	3.973	0.717
APR	1.85	2.711	-0.861	1.38	3.271	-1.891	2.32	2.701	-0.381	4.49	2.445	2.045
MAY	3.54	3.043	0.497	11.02	3.220	7.800	9.92	2.406	7.514	4.45	1.910	2.540
JUN	4.13	4.968	-0.838	4.76	5.131	-0.371	3.66	3.969	-0.309	3.98	3.448	0.532
JUL	0.94	2.603	-1.663	3.78	3.685	0.095	2.80	2.859	-0.059	1.18	3.004	-1.824
AUG	1.38	2.880	-1.500	1.93	2.167	-0.237	1.50	2.657	-1.157	2.76	2.030	0.730
SEP 14	1.50	3.890	-2.390	2.13	4.342	-2.212	0.98	3.532	-2.552	0.67	2.656	-1.986
TOTAL	31.13	46.022	-14.892	45.08	49.952	-4.872	43.03	46.049	-3.019	40.95	43.156	-2.206
CHECK			-14.892			-4.872			-3.019			-2.206

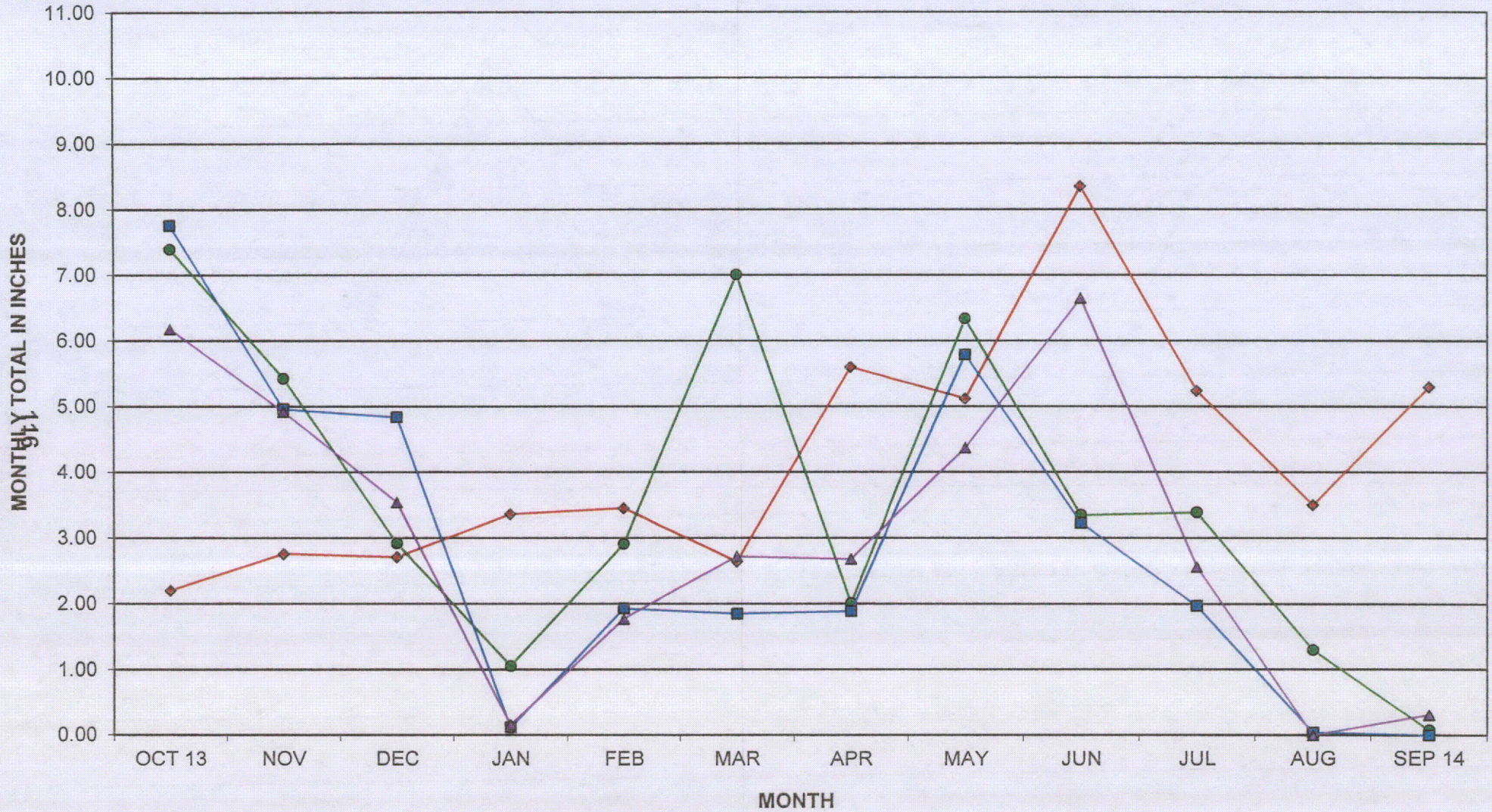
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MONTH	NEUVILLE (ID# 1075)			FLAT FORK CREEK (ID# 1085)			ANDERSON (ID# 1095)			FLORIEN (ID# 2015)		
	RAIN	AVG	DIFF	RAIN	AVG	DIFF	RAIN	AVG	DIFF	RAIN	AVG	DIFF
OCT 13	7.48	3.910	3.570	5.59	3.643	1.947	4.61	4.306	0.304	5.35	4.416	0.934
NOV	4.88	5.467	-0.587	5.32	5.206	0.114	5.16	4.897	0.263	4.29	5.841	-1.551
DEC	4.14	5.151	-1.011	2.92	5.247	-2.327	3.19	4.423	-1.233	2.17	5.888	-3.718
JAN	0.43	4.593	-4.163	0.08	5.004	-4.924	0.16	4.752	-4.592	0.91	4.595	-3.685
FEB	2.52	4.724	-2.204	2.68	4.854	-2.174	1.69	4.308	-2.618	4.10	3.965	0.135
MAR	4.37	3.796	0.574	3.82	3.771	0.049	2.28	4.158	-1.878	4.06	4.098	-0.038
APR	3.31	2.896	0.414	2.56	3.033	-0.473	2.72	2.996	-0.276	2.52	3.268	-0.748
MAY	4.96	2.917	2.043	6.89	3.394	3.496	2.21	3.450	-1.240	2.52	2.237	0.283
JUN	3.98	4.729	-0.749	4.21	4.389	-0.179	5.39	4.293	1.097	4.21	3.295	0.915
JUL	1.42	3.104	-1.684	3.54	3.464	0.076	1.69	2.922	-1.232	2.56	2.838	-0.278
AUG	0.28	2.492	-2.212	0.39	2.114	-1.724	0.00	1.672	-1.672	1.54	1.901	-0.361
SEP 14	1.42	2.811	-1.391	0.55	3.122	-2.572	0.08	3.311	-3.231	0.71	2.827	-2.117
TOTAL	39.19	46.590	-7.400	38.55	47.241	-8.691	29.18	45.488	-16.308	34.94	45.169	-10.229
CHECK			-7.400			-8.691			-16.308			-10.229

WATER YEAR 13-14

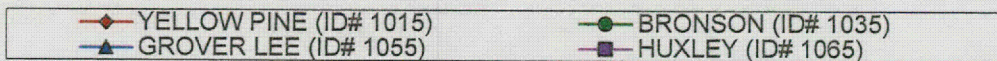
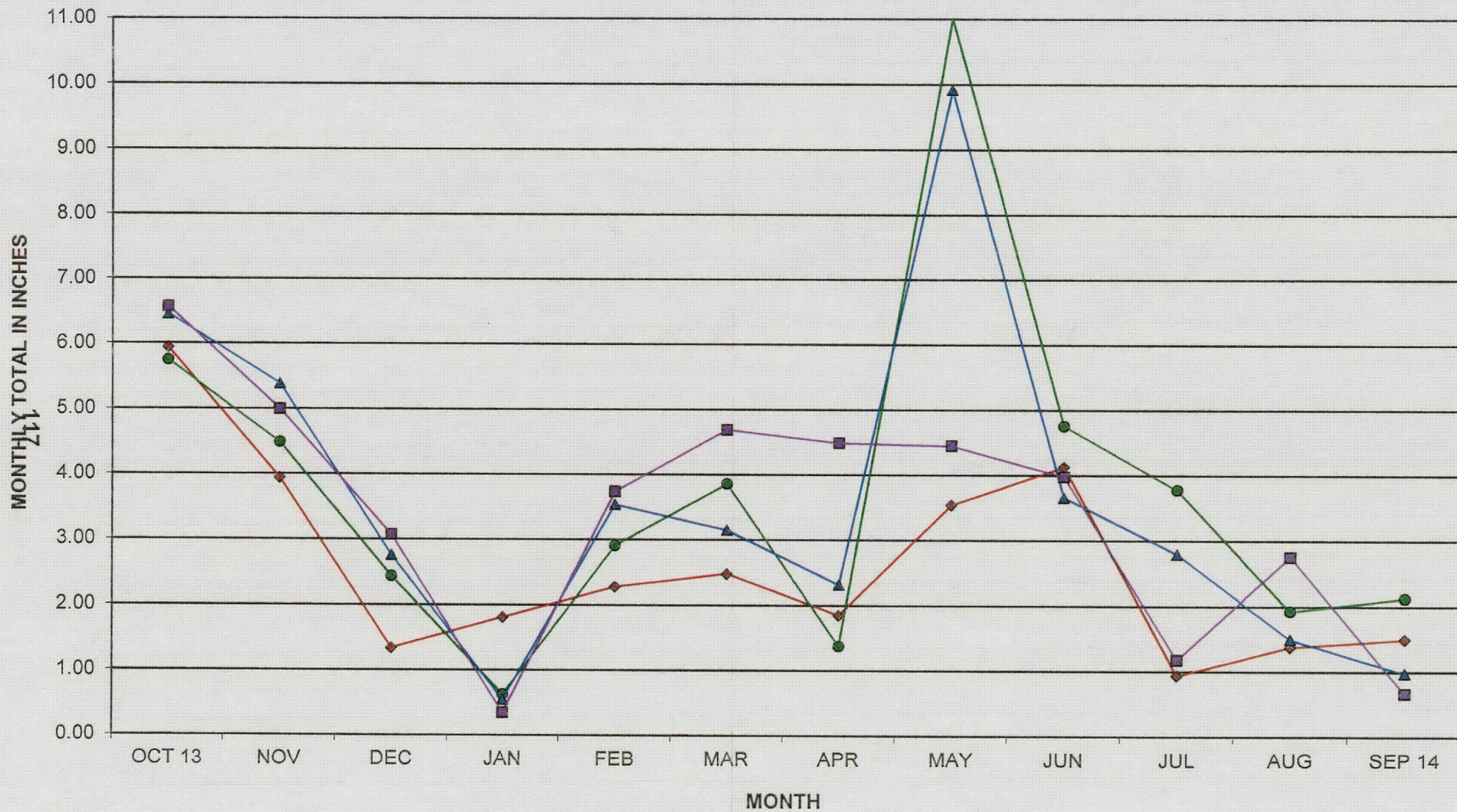


WATER YEAR 13-14

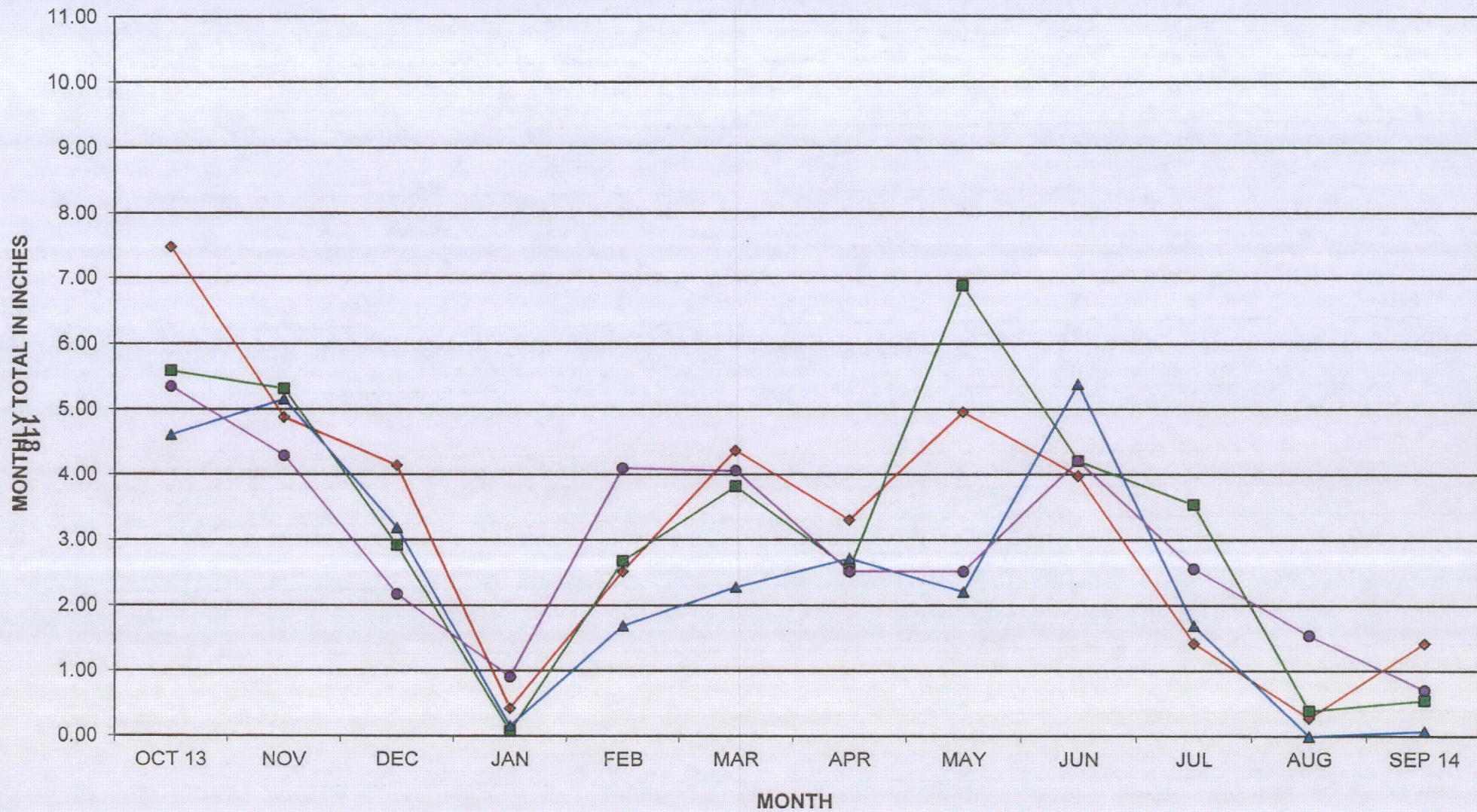


◆ SPILLWAY (ID# 3015) ● PENDLETON (ID# 4015)
■ HIGHWAY 59 (ID# 5015) ▲ LOGANSPORT (ID# 6015)

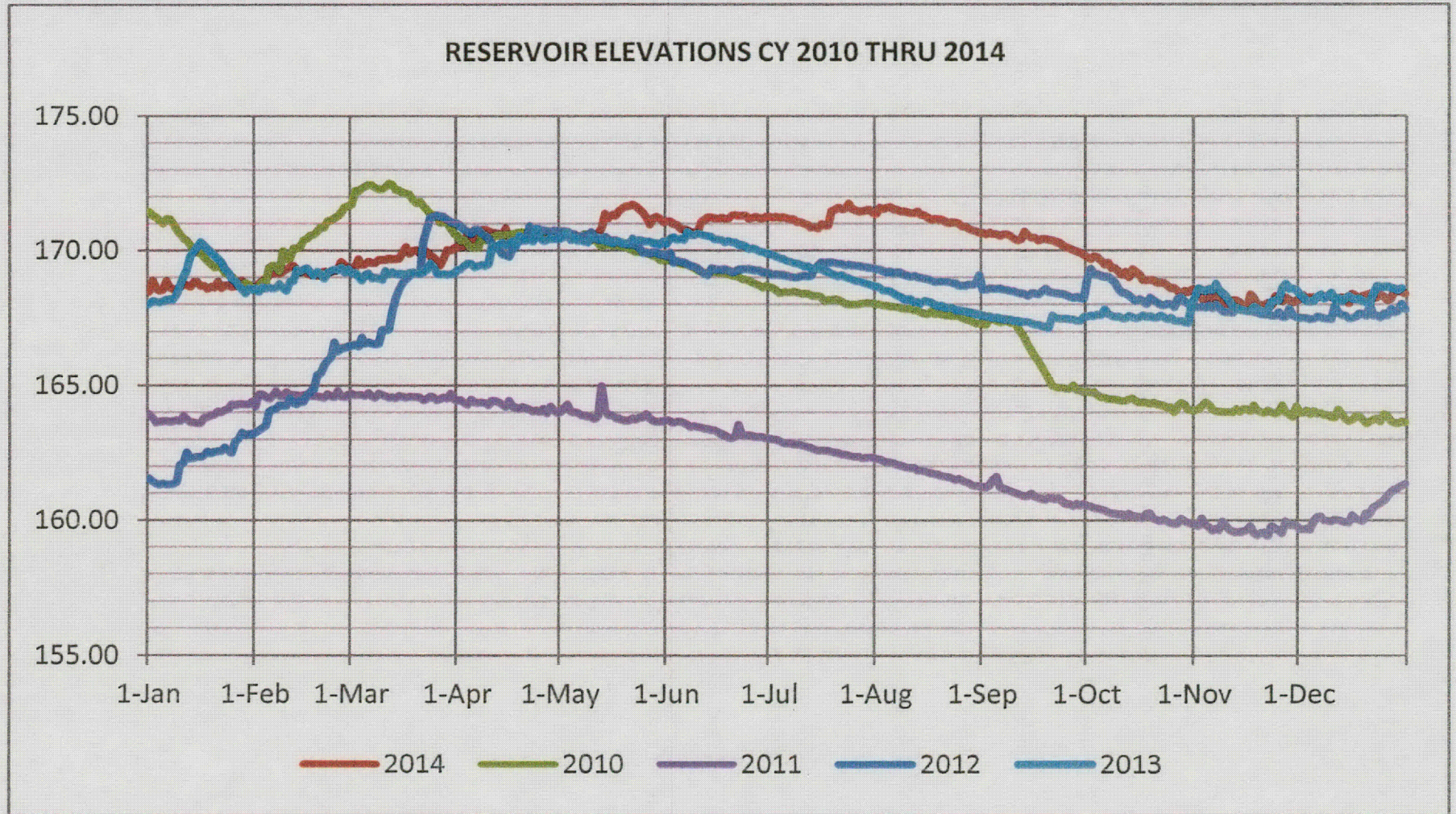
WATER YEAR 13-14



WATER YEAR 13-14



NEUVILLE (ID# 1075) FLAT FORK CREEK (ID# 1085)
ANDERSON (ID# 1095) FLORIEN (ID# 2015)



APPENDIX G
WEB SITE ADDRESSES
of
PARTICIPATORY AGENCIES

1. U.S. Geological Survey (USGS) – <http://water.usgs.gov>
2. Sabine River Authority of Texas – <http://www.sra.dst.tx.us>
3. Sabine River Authority, State of Louisiana – <http://www.srala-toledo.com>
4. National Weather Service – <http://www.srh.noaa.gov>
5. Louisiana Department of Transportation & Development (LADOTD) –
<http://www.dotd.state.la.us>
6. Louisiana Department of Environmental Quality (LDEQ) –
<http://www.deq.state.la.us>
7. Texas Attorney General's Office – <http://www.oag.state.tx.us>
8. Texas Commission on Environmental Quality – <http://www.tceq.state.tx.us>

